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BAXTER STATE PARK

STATE LAW LIBRARY

1996

ANNUAL REPORT



BAXTER STATE PARK AUTHORITY:

OCT 15 1997

RAY B. OWEN, Chairman
Commissioner, Inland Fisheries & Wildlife

ANDREW KETTERER
Attorney General

CHARLES GADZIK, Director
Maine Forest Service

Respectfully submitted:

IRVIN C. CAVERLY, JR.
Director, Baxter State Park
August 1, 1997

TO PROTECT AND PRESERVE

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1996

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(Formerly Scientific Study Review Committee)

A. DIRECTOR'S 1996 SUMMARY

DIRECTOR'S 1996 SUMMARY

Each year it is our intent and concentrated effort to provide a record to the people we serve the best information possible relative to the activities that take place in BSP. This effort is an incredible taxation on time and resources of all who participate and contribute. Each year I think our reports get better, and that is because our professionals are able to focus on the issues and, in a concise effective manner, report on those that are significant and pertinent. My compliments to all who contributed to this report, but most especially to Chief Ranger Chris Drew, Resource Manager Jensen Bissell, Park Naturalist Jean Hoekwater and my Secretary Roxanna McLean.

Opening day 1996 was bigger and better than previous years. The community is visited by literally hundreds of people during the first couple weeks in January, and we are delighted that they who, coordinate and operate with BSP, are able to provide services consisting of lodging, food, souvenirs, entertainment and, yeah, maybe even a campsite in our local snowbank. The enthusiasm of our visiting guests for their BSP camping experience, the specialized gear they bring with them for the ordeal and their commitment demonstrates the value placed on their annual visits to BSP, all of this completely compatible with the intent of the Park's donor Percival P. Baxter. His logic for mandating that preservation and protection of resources for all generations is as clear today as it has ever been, for because of these stipulations recreational activities in BSP are an experience that is unparalleled within our country. Hence the reason it is so important that we maintain a high standard of control to assure that recreational interests do not exceed preservation in the years throughout infinity.

The Scientific Research Requests seem to be on the increase each year, and it is difficult for this officer to perceive that each can be given its due and just consideration without the support and assistance of the Park Naturalist and the Director's Research Committee. These people spend hours each year in doing a just and careful evaluation to assure that all projects that are recommended for approval are compatible to our mandate and are necessary for the good of the species. Based on their recommendations, I have approved several requests as detailed in the Naturalist's report, and because of the work of these fine people, have been able to make those approvals based on the best information available. Unfortunately we continue to get orally and in writing numerous requests that do not meet the criteria, and orientation is an ongoing education process which sometimes requires much time and patience.

Search and rescue is an ongoing subject which can be time consuming and involve much information education. The Chief Ranger, BSP Rangers, Park Naturalist and I spend much of our time with individuals who have an attitude of conquering Katahdin or other mountain peaks within BSP. Because there is constant turnover among individuals participating in these activities, it requires constant reminders that **no one conquers mountains. Nature prevails.** We only have the opportunity to visit. If our experience is successful, it is because the elements were gracious, and we, as a people were wise enough to recognize the privileges allowed within the natural features of our land.

Unfortunately in any given year, as hard as we try to prevent accidents, as the managers of the people, we lose a few. 1996 was no exception, and as you will see in the detail of the Chief Ranger's report and appendix, fatalities did occur. It is estimated that over 50,000 people climb just Katahdin in any given year. Over 100,000 visit our Park. There is some consolation that the record reflects an outstanding safe area and it is amazing that the incident numbers are not higher. I am grateful for the good work that staff accomplish in our efforts to make BSP a safe work and recreational facility.

Much of my duties and responsibilities entail meetings, travel and bureaucratic type functions such as lots of paperwork, budgeting, negotiations, personnel issues, contract planning and correspondence. Over 724 pieces of correspondence plus copies were mailed out in 1996. This number does not reflect figures from the Reservation Information Office.

More pleasant opportunities are the field trips and the one-on-one contacts that I am privileged to have with those who visit or have an interest in the Park we are so privileged to represent. I have been invited to speak and take the Park to the people in old age homes, to speak to senior citizen organizations, environmental groups, educational groups ranging from high school to college, train classes with Beal College, Unity College, Region 3 and the U. of M. system, to participate in the ceremonies in the rededicating of Governor Baxter's bust in the Hall of Flags, participate in ceremonies at the Blaine House recognizing people who contribute above and beyond the call of duty to the betterment of our environment, or maybe just walking through a campground in the evening chatting to users, stopping by the local coffee shop, hardware store or Main Street of any given town and for people to say, "Hi Buzz. How's things going at Baxter?" Invariably this question will result in pleasant and rewarding dialogue. There are a few negatives for those of us who are privileged to represent BSP. Consequently it has created challenging careers that have spanned from a few years to nearly 40 years. Through these years, people from across Maine and our nation have not only spent time visiting BSP, but have worked within its ranks. Many in volunteer capacities, but also many as classified employees. To recognize the most recent classified employees for the services they have offered, I commend Brian Johnston 17 years, Tom Edes 2 years, Paul Farrington 2 years, Troy Dow 2 years and Carter Smith 2 years. Each has moved on to other challenges and we wish them the best of luck. Frequently BSP works with other bureaus, agencies and organizations, each incident considered insignificant to report on in detail, but considered in total contribution to the success of our operation which can undeniably be recognized as a major accomplishment.

Dr. Trudy Scee's history was completed in the early fall. However after review, there were a number of areas we felt needed additional research, and based on Authority approval, I issued a second contract for \$3,000 to accomplish this work. Her work was completed on January 1, 1997. The History Committee consisting of representatives from the Advisory, namely Chair Ed Dwyer, Jane Thomas, Roy Farnsworth and John Howard has worked hard at numerous meetings to bring the document to its final stages. Staff, Jean Hoekwater, yours truly were participants also. We are confident that a product that

has taken much time will result in an accurate reflection of our Park and its challenges during the past 25 years, thus the reason that the title is so appropriate, for it is *In The Deeds We Trust*.

Highlights of the year were visits by individual Authority members, Dick Holmes BSP's first official Ranger, Sandy Paige of the Governor's office, Governor King and his wife Mary, daughter Molly and son Ben, Linn Spalding and Tom Reilly of the Boston Company, Bill and Debra Irwin who moved from North Carolina to Maine and many others. A delegation from the government of Ukraine were a most interesting group to work with as we discussed wilderness resource management. My thanks to Carol Pettyjohn who coordinated and made this trip possible. Our thanks to Mary Baxter White who continues to correspond and visit the Park on a regular basis.

There were sad moments during the year when we lost a good friend in Mike Richie, former Warden Lt. and an instructor in the Conservation Law Program at Beal College. His sudden and unexpected death was a shock to all of us who had known and worked with him. The passing of Bill Cross, a former Advisory member and Business Manager for BSP was brought to our attention several weeks after the fact. Bill had served many years and offered substantial contributions to the Park he served. He is deservedly recognized within the legacy of our Park and those recollections reflect the early years of his involvement in offering support and counsel to the Chair of the Authority in those days, Austin Wilkins. Judy Hafford of our staff experienced illness which has resulted in a disability retirement. Judy has our sincerest best wishes during her retirement years and our sincerest thanks for the services that she provided as our Payroll Clerk. Col. Jim Tinkham has accepted a transfer from the Maine Army National Guard helicopter unit in Bangor to Camp Keyes in Augusta. We will miss the opportunity of not working with Jim on a regular basis and are extremely grateful for his support of BSP during the years he served as commanding officer in Bangor.

Within the following pages, I trust that you will be inspired as I am when we reflect upon the accomplishments and contributions that have been made by Park staff, volunteers and Maine people in carrying out and fulfilling the needs of our operation. As always, we extend an invitation to all if questions arise, if suggestions are available and dialogue is an opportunity. We hope you will participate. Our Park is a fun place to participate, a fun place to manage and has some great experiences to look forward to and to reminisce about. As always, thanks for successful trails in 1996 and happy trails in 1997 and years that follow.

B. OPERATIONAL HIGHLIGHTS AND OVERVIEW

I OVERVIEW - 1996

The winter of 1995-96 started unusually cold. There was poor snowshoeing, skiing and snowsledding conditions in December and January. Snow conditions improved in February and March for winter recreationalists. Park staff assisted in four winter medical evacuations out of Chimney Pond on Mt. Katahdin, and one search for a party snowed in near Russell Pond. Several winter storms created heavy windthrow of trees along the perimeter road.

The spring thaw was unusually late in 1996. Park roads were cleared of most blowdowns by Memorial Day Weekend, but the main Park road system was not open for through traffic until June 15th. This is the latest date for spring vehicle traffic access in over 25 years. The frost was very slow coming out of the ground between Trout Brook Crossing and Nesowadnehunk Lake.

There was continual rain during the months of May, June and July. High water on Wassataquoik Stream caused several reroutings of campers from Russell Pond to South Branch Pond. Road and trail maintenance was hampered by this unusually long rainy season. The Park was not exposed to high forest fire dangers that have been prevalent the previous two years.

August and September were exceptionally busy months in the Park. There were 18 search and rescue operations during these two months. Roy Owen, 78, of Carrollton, GA, suffered a fatal heart attack August 14, 1996 while trying to complete a Katahdin section of the Appalachian Trail. Fair weather enhanced heavy camping and day use activities in the Park. 255 Appalachian Trail hikers completed the AT from Springer Mountain in Georgia. This is a 112% increase from 1995 and a 300% increase since 1979. Hurricane Bertha created minor damages to Park roads.

The fall months showed an increase in hunting activity in T6R10 and T6R9, the two northern most townships in BSP. Over 1000 hunter days of use were recorded in October and November. This area is particularly popular with bow hunters.

December was a wet month with four rain storms including Christmas Eve when Louis McGuinn, 32, of Hebron, CT, hiked up the Hunt Trail (AT) above Katahdin Falls, pitched his tent off the trail and committed suicide.

Major projects completed in 1996 included the completion of the Togue Pond crew camp for staff and volunteer use. The former Foster Field dump was covered, loamed, seeded, and mulched. The area was also replanted with pine. The Slaughter gravel pit was landscaped, seeded and mulched. The Abol Field Department of Transportation (DOT) camp was finished and a garage was built. The Abol Scout Area had a new 1000 gallon vault toilet installed to replace two old pit toilets. The old DOT cabin and storage shed was removed at the Katahdin Stream Campground. The Kidney Pond workshop was

reshingled as well as cabin #5. A new bunkhouse was built at the South Branch Pond Campground to replace the aging facility. Road improvements were made on the Black Brook Service road. The old Telos road and Williams Pond road were closed to vehicle access. A lean-to was constructed about a mile northeast of Center Pond. The Wassataquoik Lake trail was relocated from the South Branch of Trout Brook to Nesowadnehunk Field. The Freeze Out Trail was relocated from Hudson Brook to the junction of the Park road and Wadleigh Brook. Two footbridges were built on the AT over Tracey Brook and Elbow Brook. A new parking lot was built at the Marston Trailhead.

The Carry-In, Carry-Out program was successful in 1996. A total of 7.5 tons of trash was hauled out of the Park in 1996. A total of 11.3 tons of trash was removed in 1995, 14.2 tons of trash was removed in 1994 and 17.3 tons was removed in 1993. There is a steady decline of trash every year.

A total of 216 volunteers donated 8,133 hours of service to Baxter State Park in 1996. Volunteers gave the most time helping with trail maintenance for 2496 hours of rigorous service.

Baxter State Park had two wildfires in 1996. A motor vehicle burned up on Abol Hill in the spring and an illegal fire burned about 1600 square feet of area just above Katahdin Falls on the Hunt Trail.

II TRAINING

1. Park law enforcement attended the yearly training as guests of the Fish & Wildlife at Camp Keys in Augusta with approximately 32 hours completed.
2. Park law enforcement personnel attended a special training session at Park Headquarters put on by the Attorney General's office.
3. The annual spring meeting and orientation was held at Kidney Pond with year-round and seasonal personnel attending.
4. Firearms training was hosted by the Millinocket Police Department at the range in Millinocket.
5. Seasonal personnel were trained by the Maine Forest Service in fire techniques and behavior on 6/27/96.
6. Some seasonal personnel were either trained or had training renewed by personnel from S.O.L.O. on June 5 and 6.
7. New employees Orientation was held in Bangor on 9/9/96 and was attended by new Park employees.
8. The safety, maintenance and operation of chainsaws was taught by Park Trail Crew Leader Lester Kenway.
9. Some employees began initial training in the use of oxygen-acetylene and welding equipment.
10. On May 4 year-round employees were trained by professional loggers with new techniques in the use of chainsaws in cutting trees, blowdowns and brush.

11. New employees received on the job training from other veteran employees concerning reports, maintenance and personal relations skills.
12. Authorized BSP personnel received training from the Department of Transportation for front end loader operation.
13. Training was provided by the State of Maine concerning the hiring and selection process.

III SEARCH AND RESCUE 1996

There were eight winter search and rescues during the winter of 1996. Seven winter incidents were at Chimney Pond on Mt. Katahdin. May, June and July were relatively incident free due to an unusually extended wet season. August and September were the busiest months in search and rescues.

The following listing gives a synopsis of search and rescue activities. Reports on major search and rescues are also included.

SEARCH AND RESCUE 1996

1.	Abbot, John Burlington, VT	Chimney Pond	Hernia	Sat.	01-06
2.	Molitaris, Marty Wilkes-Basin, PA	Chimney Pond	Overdue	Fri.	02-09
3.	Mooney, Terry Bristol, NH	Chimney Pond	Frostbite	Sat.	02-10
4.	Lee, William Waterville, ME	Russell Pd.	Overdue	Mon.	02-19
5.	Garrison, Hargrave N. Yarmouth, ME	Chimney Pond	Knee Strain	Thur.	02-22
6.	Gallant, Mario Ste.-Anne des Laco, Que	Chimney Pond	Strain of Archilles Tendon	Tue	03-05
7.	Berthiaume, Robert Gramby, Que	Chimney Pond	Overdue	Thur	03-07
8.	Grinnell-Galder	Chimney Pond	Overdue	Tue	03-19
9.		Abol Trail	Heat exhaust.	Tue	06-11
10.	Wrobleski, Joseph Falmouth, ME	Nesowadnehunk So. Br. Trout Brk. area	Lost fisherman	Wed.	07-03
11.	Radio assist F&W	Big Eddy	Watercraft	Wed.	07-03
12.		Kidney	Heart Attack	Sun	07-28
13.	Murry, Mike Philadelphia, PA	Hunt	Heat exhaus- tion	Fri	08-02
14.	Smith, Jerry Lewiston, ME	Hunt	Heat exhaus- tion	Sun	08-04
15.	Kelly, Doug Laurel, MD		Exhaustion	Wed	08-07

16.	MacNeale	So.Br.Pd.	Lacerated Thumb	Thur	08-08
17.	Clemenzie, Aaron Werham, MA	Hunt	Severe sprain	Sat	08-12
	Owen, Roy	Hunt	Fatal heart att.		08-14
18.	Andrews, Alicia Salem, MA	Hunt	Back injury	Sun	08-18
19.	Hamilton, Elaine Orono, ME	Abol CG	Abdom. pain	Tue	08-20
20.	Duff, Virginia Moore, Robert	Abol	Overdue	Wed	08-21
21.	Vanduy, Anne	SoBrPd	Chin cut	Wed	08-28
22.		Matagamon Lake	Lacerated Hand	Sat.	08-31
23.	Moore, H. McKay 75 year old	Tracey Pd.	Overdue	Sat.	08-31
24.		Daicey Pond	Lacerated arm	Tue	09-03
25.	Goodwin, Glenda Augusta, ME	Owl	Sprain Ankle	Sun	09-08
26.		Daicey Pond	Sprain ankle	Mon	09-09
27.	Massey	Russell Pond	first-aid	Tue	09-17
28.	Machmueller, Don	Roaring Brook	insulin react.	Wed	09-18
29.	Taylor	SoBrPd	Knee Injury	Sat	09-28
30.		SoBrPd	Injury from canoe	Sun	09-29
31	Deschanes, Bucky	Helon Taylor Trail	Broke wrist	Sat.	10-12
32.	McGuinn, Louis	Hunt Trail	Suicide	Tue	12-24

February 21, 1996

TO: SEARCH AND RESCUE RECORDS
FROM: CHRIS M. DREW, CHIEF RANGER, BSP
SUBJECT: WILLIAM LEE PARTY SEARCH

Shortly after 7:30 A.M. on February 19, 1996, Park Ranger II Robert Howes received communication from the Millinocket Fire Department concerning an overdue party winter camping in Baxter State Park. The overdue party was the William Lee party made up of 5 men. In addition to the group leader, the party included Jon Rogers, Brook Barnes, Paul Gregory and Bill Seekins. A concerned family member called the Millinocket Fire Department to express concern over the failure of the group to return home.

Ranger Howes checked the vehicle parking lot near Compass Pond and found the Lee vehicle still in the lot. A check of the Roaring Brook Campground where the Lee party was scheduled to be on February 17th failed to locate the Lee party. This party was scheduled for the South Branch Pond bunkhouse on February 15, 1996, the Russell Pond bunkhouse on February 16, 1996 and the Roaring Brook bunkhouse on February 17, 1996.

Ranger Howes dispatched two teams from the Wilderness Rescue Team at Chimney Pond to ski from Roaring Brook to Russell Pond. Team #1 was Paul Cormier and Mike Belchat. Team #2 was Greg Lusk and Dave Carey.

I traveled from Mt. Chase to South Branch Pond to see if the Lee party reversed directions. I checked with the Wiswell party at South Branch Pond and found they had not seen any other campers. I proceeded on snowsled toward Pogy Pond and met Brook Barnes about 1.5 miles south of Upper South Branch Pond. Lael Scott was covering the Park radio at the South Branch Pond office.

I communicated with Ranger Howes that the Lee party was located and appeared to be in good health. A request was made to notify the Millinocket Fire Department to inform family members that the Lee party was found to be in good health. The Wilderness Rescue Teams #1 and #2 would continue toward Russell Pond and check marked trail conditions and to pick up equipment left by the Lee party on the trail approximately 3 miles north of Roaring Brook.

Due to the weekend snowstorm (up to 12" in BSP), the Lee party had difficulty negotiating the trail to Roaring Brook and made bivouac on the trail during the snowstorm on Saturday February 17, 1996. They had no tents. They shared a tarp and put in a hard night. On Sunday morning (February 18, 1996), they broke camp and hiked approximately a quarter mile toward Roaring Brook where they lost the blue blazed trail, but found the old trail that had the blue blazes painted over with brown paint. At this point, they abandoned some equipment (1 pair skis, 2 ski poles, totesled with harness,

clothing and some trash) and headed back to the Russell Pond bunkhouse. They also abandoned some equipment at the bivouac site just north of the turn-around location.

The Wilderness Rescue Teams #1 and #2 recovered the materials at the turn-around location and brought those materials to Park Headquarters in Millinocket on Tuesday, February 20, 1996. I hauled 5 packs and assorted equipment by snowsled and truck along the William Lee to the Compass Pond parking area where William picked up his personal vehicle and returned to the Matagamon Wilderness Store to pick up the remainder of his party. I traveled 44.6 miles by snowsled and 168 miles by truck in assisting the Lee party. The Russell Pond trail from South Branch Pond toward Pogy Pond was found to be poor snowsledding.

Heavy snows and winds hampered the Lee party and caused an unplanned bivouac. Hypothermia and fatigue then influenced the decision-making of the party to leave equipment and to reverse directions.

CMD:rm

WILDERNESS RESCUE TEAM

ACTIVITY REPORT

DATE: 2/19/96

LOCATION: Baxter State Park

TIME: 8:30 A.M.

CALLOUT BY: Bob Howes

CP Phone: Radio

VICTIM: 5 hikers

AGE: ?

HEALTH: average

SCENARIO: Hikers overdue between South Branch Pond and Roaring Brook. 2 ski teams headed north from RB toward SBP and did find abandoned equipment and garbage which was retrieved. Back up team met ski team to transport dunnage to RB. All teams out before dark.

RESPONSE: 4 skiers as hasty teams Est. Man-hours: 72
1&2, and 5 members as backup.

OUTCOME: Hikers found by Ranger Chris Drew coming into South Branch Pond area. Trail confusion caused them to turn back 3 miles from Roaring Brook and retrace their steps to South Branch. All OK.

August 15, 1996

TO: BAXTER STATE PARK AUTHORITY
FROM: IRVIN C. CAVERLY, JR., DIRECTOR, BAXTER STATE PARK
SUBJECT: AUGUST 14, 1996 INCIDENT

As a follow-up to my phone calls to each of you today, I regret to inform you that a hiker in BSP appears to have experienced a heart attack which was fatal on August 14. We got the call at Park Headquarters from one of the Mountain Patrol units about noon. The individual's name was Roy Owen of 105 West Greenwood, Dr. Carrollton, GA 30117, his d.o.b. was 12/2/18. Chief Ranger Chris Drew called me later in the evening to advise.

This forenoon I had the opportunity to meet with a number of employees as we start to compile documentation and reports on this incident. It appears that Mr. Owen had a sincere desire to make the climb up Katahdin and was accompanied by two companions. They indicated he was doing quite well until he neared the top of the Hunt Trail. Just prior to the plateau, they described him reaching up for a handhold and then slumping to the ground. It's reported that each had medical training and immediately started CPR. A short time later, other hikers located one of our Mountain Patrol employees who proceeded to the scene and reported that CPR had continued for some time with no response.

Contact was made with the Medical Examiner's office and we were given permission to evacuate the subject. A call was made to the 112th Medivac, but it was reported to me that they could not respond because it was a fatality and their policy states they must only respond to life saving missions. I will call Col. Tinkham for clarification. Generally, due to the risk to staff and volunteers on Katahdin, they will do an evacuation mission. Sounds like the Col. wasn't available or some red tape got in the way. However contact was made with Maine Forest Service, and we are deeply grateful to that agency and, specifically Pilot Otis Gray. He was successful in completing the evacuation at approximately 6:00 P.M., saving a lot of tired people a long hard night's work.

Earlier this week on August 13 at about 5:44 P.M., we received information from the Millinocket Fire Dept. regarding a party on the Hunt Trail who were suffering from fatigue and a broken ankle. The information was coming in by cellular phone made by the victim's father. By the time staff got to the scene, stabilized the boy, the Duty Officer had contacted the 112th Medevac. At a location of about 2 1/2 miles up the Hunt Trail from Katahdin Stream Campground, Medevac crews with the aid of night vision glasses made a cable hoist evacuation at about 12 midnight. More information and detail will be provided as soon as reports are compiled on both of these incidents.

Meanwhile, if you have any questions, give me a call. Oh by the way, it's August at BSP. Can't you tell?

Regards.
ICC:rm

REPORT ON ROY A. OWEN

Around 12:30 received a call that a male, approximately 70+ years old had become stricken on the Hunt Trail in the Gateway. Chief Ranger Drew had advised Rangers Troy Dow and Bruce White to assemble gear and litter and head up. At this time, I started organizing Ranger staff and volunteers to assemble and head up the Hunt. Daicey and Kidney Ponds, Abol, Nesowadnehunk and Roaring Brook personnel recruited what volunteers they could and proceeded to Katahdin Stream.

As updated information became available through Unit 22 Mtn. Patrol, it became apparent that the victim was near the top of the Gateway and that a long stretcher carry was eminent. With this information, I called the 112th Medevac and advised. After considerable length of time trying to make contact with a D.O. Sgt. Brenda Valincourt advised they had to contact staff in Augusta. The decision from Augusta was no, that the 112th could not be utilized to recover a body. At this point, plans were being made to carry the body to the top of the Tableland and descend down the Abol. With the extremely high risk to crews and difficulty of lowering a stretcher down the Abol Trail, another attempt of using another agency's helicopter was considered. I contacted the Maine forest Service in Old Town and advised of the situation. The dispatcher advised she would contact Pilots John Knight and Otis Gray and have them get back to me. A short time later, Otis Gray called and I advised of the situation. Otis advised when the body was moved to the Tableland to call him back and he would attempt a landing. Ranger Troy Dow coordinated the carry and advised that they were on top. A call to Pilot Gray confirmed that they were ready. Pilot Gray flew to the Tableland, set down and the body was loaded. Dowd Funeral Home had been previously contacted and were to meet the helicopter at Caribou Pit. Myself and Dowd Funeral Home representatives met the helicopter at Caribou Pit and transferred the body to the hearse wagon. At this point, the body was moved to Dowd Funereal Home in Millinocket. After the body was lifted off, all Park staff and volunteers started their return off the mountain. Upon the return off the mountain, I made contact with the victim's companions and obtained the necessary information.

The victim's gear was assembled at the Best Western Motel in Millinocket and left at Dowd funeral Home to be shipped with the body. Contact was established with the Medical Examiner's office in Augusta. Jim Dowd and I inventoried the victim's gear. The money had been inventoried at the motel with the victim's companions.

Moneys inventoried were: \$300 traveler checks
 \$164 cash in bills
 \$1.72 change

Special thanks to Ed Garnier (EMT) and Steve Guay (technical climber) who volunteered their expertise and made the rescue go smoothly. Rangers involved are listed below. Volunteers' names and addresses are on the attached sheets and should be recognized with

a letter of appreciation. The 112th did an extraordinary job. Their precision litter drops are very impressive.

Bruce White, CRI
Katahdin Stream

Barry MacArthur (54)	Bernard Crabtree (58)	Charlie Kenney (59)
Albert Rickards (69)	Brian Johnston (63)	Stewart Guay (68)
Marcia Williamson (77)	Jodi Tollet-Browning (78)	Jen Hall
Michelle Lee	Gabe Williamson (77)	Reggie Moore
Nick Rogers	Joanna Thorpe	Andy Marchand

VOLUNTEERS

Alan Erickson
P.O.Box 437
Foxboro, MA 02035

Tom Weaver
6 Kathy Drive
Foxboro, MA 02035

Robert Rea
North St.
Foxboro, MA 02035

Barrett Smith
45 Western Ave. #3
Waterville, ME 04901

Jefferson Goethals
45 Western Ave. #3
Waterville, ME 04901

Tine Klevestad
41 Prospect St.
Waterville, ME 04901

Diana, Topher and Oliver Sabot
1331 Oblong Rd.
Williamstown, MA 02167

John Connelly
15 Jennifer Ln.
Foxboro, MA 02035

Blank Checks

The EMT who assisted on the scene and gave advice:

Jonathan Dayton
15 Central Rd.
Middlebury, CT 06762
Phone #203-758-2582

Volunteer from KPC:

Bob Erickson
6435 Main Rd.
Hanington, VT 05462

Park staff involved with incident:

Albert Rickards
Reggie Moore
Dave Chase
Bruce White
Paul Farrington
Marcia Williamson

Unit 22 Mt. Patrol Erin
Jodi Browning
Troy Dow
TomEdes
Stewart Guay
12 known volunteers

CONTENTS IN BLACK (HOLIDAY) TRAVEL SACK

Sneaker (black)
Chemi sweat pan (green)
Jeans/belt
Gray L.L.Bean jacket
Swim trunk (red/rose)
Up to dozen underwear and stocking
2 towels and washcloths
green shorts - hiking
1 black shirt
1 dana design pack
1 tannish rain pants
1 black pant
1 package clothesline
1 shaving kit (brown)
1 hiking stick (Metwselah)

Inventory of Roy Owen gear

ADDITION TO ROY OWEN REPORT - TROY DOW

At approximately 12:30-1:00 P.M. I received a call from 51 (Chris Drew) that Mt. Patrol had a possible 10-48. He requested I take this litter carry and start up the trail. While climbing, I met the two gentlemen that had been climbing with the victim and the EMT who stopped CPR. They advised me that he had, in fact, died, believe to be a heart attack. When I reached the victim (Roy A. Owen), I put together the stokes, bagged the body, and placed him in the litter carry. While waiting for other staff members and volunteers, 53 (Robert Howes) advised me that there was a chance that Forestry may fly for us. After Rangers, Paul Farrington and Bruce White arrived, we moved the body toward the summit of tableland, approximately 200-300 feet up. After summiting, I gave Robert Howes a call and updated him on wind conditions and he relayed to Forestry. At that time Forestry left Brownville and arrived a short time later. After the pilot found a safe place to land, we carried the litter to him. We loaded the litter in the side door and sent off the helicopter. After the helicopter had left, all staff and volunteers started their

decent of Katahdin. All went very smooth thanks to the staff and volunteers. Special thanks to the Forestry crew, big help thank you.

Friends of victim:	Bill Crawley	Benjamin Roy Browny, Jr.
	3182 Arabia Rd.	P.O.Box 1261
	Raeford, NC 28376	Elizabeth City, NC 27906-1261
		#71 Dwanview Loop
		Southern Shores, nC 27949

RESCUERS FIND BAXTER HIKER FALMOUTH MAN LOST FOR 4 DAYS

A Falmouth man was rescued Saturday from a remote area of Baxter State Park, after being lost for four days and surviving on a handful of Fig Newtons.

Joseph Wrobleski, 32, of Falmouth was discovered high among the trees of Baxter State Park by a helicopter from Brunswick Naval Air Station. Wrobleski climbed a 50-foot tree when he realized the circling helicopter could not see him through the dense forest.

"It was an experience." Wrobleski said in a phone interview Sunday. "I am very grateful to the Maine State Warden Service and the Brunswick Naval Air Station for finding me."

Wrobleski, who was uncomfortable discussing his four-day ordeal, did not want to comment further. Wrobleski was reported missing by his wife Friday afternoon when he was two days late returning from a scheduled fishing trip.

The Warden Service launched a rescue mission consisting of 40 trained rescue personnel and dogs accustomed to the 200-square-mile search area.

Twenty minutes into the helicopter search pilot Lt. David Welch spotted Wrobleski waving a pole with a brightly covered cloth. The helicopter, equipped with a hoist and harness, pulled Wrobleski to safety.

Wrobleski had started hiking at the Nesowadnehunk Campground on the western side of the Park. He had planned a six-mile hike to a fishing spot.

Four hours into his hike, Wrobleski became disoriented. He decided to stop and wait for help. He built a lean-to and a fire as he awaited his rescue.

December 30, 1996

TO: BAXTER STATE PARK
FROM: IRVIN C. CAVERLY, JR., DIRECTOR, BAXTER STATE PARK
SUBJECT: ACTIVITY REPORT #3 DECEMBER 24-28, 1996

Over the years and since the tragic death of Ranger Ralph Heath in October of 1963, when he attempted to rescue a hiker, BSP has been exposed to 19 mountain-related fatalities. I regret to inform you the number has been elevated by one to 20. The sequence of events that I am about to report were extraordinary, time consuming, mysterious at times and stressful and it all started the day before Christmas, December 24.

During the afternoon of that day, a vehicle was seen at Togue Pond Gate, the southern entrance to BSP in T2R9. Alice Crabtree, the wife of Ranger Bernard Crabtree, noted that a person driving a Toyota vehicle had stopped at the gate, unpinned it, entered the Park and then closed and repinned the gate. The individual appeared to be young, in his 20's, and as there was little snow, may have been going in for a day trip or, in fact, be going to Camp Phoenix. The weather was above freezing with a forecast of rain Christmas Eve. Bernard Crabtree was Duty Officer this day. He was working at the BSP garage in Millinocket and his plans were to spend Christmas Eve with his wife at the Togue Pond Mountain View Camp.

On Christmas Day, December 25, Ranger Crabtree traveled to Daicey Pond in T3R10 to work that day. On route, he noticed where a vehicle had turned around on the Park road just north of the Appalachian Trail junction near Tracy Pond. Later in the day after working at Daicey Pond, Ranger Crabtree followed the wheel tracks back to Katahdin Stream Campground and found a locked blue 1992 Toyota hidden near the Katahdin Stream Ranger's camp. The vehicle had Connecticut registration #586-KZX. It was just past noon, Crabtree called Chief Ranger Chris Drew and reported his findings. Ranger Drew advised Ranger Crabtree to lock Togue Pond Gate to keep other vehicles from entering the Park. There was a possibility this was an illegal camping incident and due to minimal snow accumulations, others might be tempted to do the same.

Chris called the Maine State Police Headquarters in Houlton to get a listing including the name and address of the owner of the Toyota. There was no such registration information found in the police computer - neither Maine or Connecticut. Therefore we had no information at this time as to who the subject was. Later in the afternoon, the Chief Ranger communicated with Park Ranger Barry MacArthur and me to appraise us of the situation. He was unable to reach me. Chris left two phone messages on my answering machine as well as a page. When I returned home at approximately 5:30 P.M., I talked to Chris on the phone. Due to the lateness of the day, we agreed we should give the individual time to return to his car. I asked Chris about his availability the following day. He indicated he could be available, but he had made plans to go to Bangor. I advised him

that I had Christmas Day off and accomplished what I had to do with family members and that he should take the next day off and I would cover the incident.

On the morning of December 26, Ranger Crabtree returned to Katahdin Stream and followed the day-old footprints to a point of 1.5 miles up the AT northeast of Katahdin Stream Campground. At that point, the hiker had turned abruptly to the left and descended a steep embankment for a distance of about 650' to the shore of Katahdin Stream. At this point, he crossed the stream. In addition to the steepness of the terrain from the AT to the stream, there were severe blowdowns and scrub brush. Ranger Crabtree was alone, and as he looked across the stream, he realized the traveling would not get much better. He returned to report his findings.

At approximately 10:15, I asked Jan Caverly if she would assist me with documentation of radio log, telephone calls and other details as I initiated search and rescue procedures. I contacted the 112th in Bangor. Jay Scammon was the coordinating officer on duty. I asked if we could get a flight from the top of the mountain down the AT in the event the subject had returned to the trail and attempted to climb the mountain. Jay called me at 10:45, advised he was pulling crews together. Between 10:45 and 10:55, several more calls for coordination were made between Jay and me. He was having difficulty in locating an EMT and asked if I could locate one in Millinocket. I called the Millinocket Fire Department. Chief Milan Thornton called back and advised that Shirley would be available to accompany the aircraft. A couple more calls confirmed that the 112th would be at the Millinocket Airport at 12 noon to meet Nurse Thornton. Jay advised me that the unit being dispatched to Millinocket was being piloted by Jeff Peterson, radio call #778. He also advised that another pilot, Ben Ayres, radio call #404, was currently in the area and would swing over to take a look. Meanwhile I tried numerous phone numbers from our SOP in search of a first response technical rescue team. I was able to reach Dave Martin at 11:47 and asked if he had a 4-person technical advance team who might assist us. Although he did not have anyone with the medical and climbing expertise I was looking for, he was able to contact Phil Duperry of the Wilderness Rescue team. Phil called me a short time later and advised that due to the holiday, many team members were away. However following numerous phone calls between Phil, Jay Scammon and me, Phil located a 7-person team and we confirmed that the Guard would be able to fly four of them to the Millinocket airport, and three additional members would be driving up. David and Al Martin were coordinating efforts to line up a ground crew to assist with evacuation if it became necessary.

It appeared it would be a couple of hours before we were able to get people to the Millinocket area. Consequently Jan and I drove to Millinocket and established our base of operations at Park Headquarters. Shortly thereafter I was advised by Jay Scammon that the aircraft would not be able to do any mountain flying due to deteriorating weather, and it was predicted from weather forecasts that we would be getting several inches of snow around midnight. The only opportunity that we had of finding this individual was the tracks he was leaving behind. With the predicted snow, those tracks would be covered, and the job of finding him would be much more difficult. The individual had been in the

woods now for two nights, and I was confident that something was wrong or he would have returned.

By early evening the advance team had arrived at Millinocket, and Al and Dave Martin had arrived with 12 members of the Dirigo Search & Rescue Team. Due to current circumstances, I assigned an advance technical team, consisting of six people, to proceed to Katahdin Stream, and with full gear and bivouac equipment, follow the tracks until they located the individual. The Dirigo support evacuation team was assigned to Katahdin Stream to be on standby in the event they were needed. Rangers Charlie Kenney and Tom Chase were called in to assist with transportation. With snow and ice accumulations on Abol Hill, this was a 4-wheel drive access only. Park Naturalist Jean Hoekwater and I also assisted in transporting rescue personnel to Katahdin Stream and setting up base camp.

By 11:05 P.M., I had returned to Millinocket Headquarters and was notified that the advance team had located the subject approximately 50 ft. beyond Katahdin Stream. They had followed his tracks and those of Bernard Crabtree to the stream, crossed the stream and continued to follow the subject's tracks until they came to a tent pitched behind a large boulder. A tent fly was extended from the entrance. When they opened the tent flap, they found an individual inside. He had expired and there was a large volume of blood. They secured the area and provided me with a report of the circumstances. I contacted the Chief Medical Examiner's office in Augusta, advised them of what we had and that I would be going to the scene to investigate. I talked to Cindy of that office, and she advised that when I completed the investigation and was ready, I should move the victim to a funeral home in Millinocket. By this time, snow was coming down heavy, and we had an accumulation of between 2-3 inches. I advised that the travel time to the scene, the investigation and the evacuation would involve the rest of the night, and I doubted we would have the victim out until 6:00 A.M. She said fine, call her when we arrived at the funeral home. Subsequently, Charlie Kenney, Tom Chase, Jean Hoekwater and I proceeded to hike to the scene. Jean took several photos of the scene prior to our approach and then progressive photos as we opened the tent and tried to determine what had happened. The area was saturated with blood. There had been some melting and some freezing. In closer examination, we observed what appeared to be a laceration on the individual's wrist. There had been no evidence of any other person in the area, only the subject's footprints. After a detailed review, discussion and photos, I was satisfied there was no foul play. We prepared the tent and the victim for transport by using the tent and a body bag that I had picked up at the undertaker's. There were two evacuation sleds used. The first that for which has already been described, the second to carry packs, ski poles and other camping equipment that the subject had with him.

At this point, I pause to make mention that the Wilderness Rescue Team representatives, namely Peter Laveway, Tom Lohnes, Mark Sairio, Phil Duperry, Scott Richards and Ed Cunningham did an outstanding job in locating the victim and securing the area. The Dirigo Search & Rescue Team (see attached list) were extremely effective working with Wilderness in moving the victim from the scene up hill at approximately an 85° angle

through scrub brush, boulders and blowdowns and then 1 1/2 miles to Katahdin Stream Campground. We arrived at the campground at 6:10 A.M. While Kenney, Hoekwater and Chase assisted the teams in breaking camp and closing up, Jan and I proceeded to the Bouchard Funeral Home in Millinocket with the body. At that location, we were met by the undertaker Bob Bouchard and Chief Ranger Chris Drew. The Medical Examiner, Dr. Connolly, arrived shortly thereafter. The job of sorting out the equipment, cleaning and preparing the individual for examination was one of gross detail which I won't get into. All of the equipment was inventoried and, in the process of cleaning up, a single edged razor blade was located and identified as the weapon. Dr. Connolly's examination concluded that the subject had cut the main artery on his wrist. At approximately 10 A.M., I realized that the last 30 hours straight ahead was catching up and although there was still much to be done, I asked Chris Drew, who was assisted by Barry MacArthur, to proceed with the other details needing attention, namely with the assistance of the Maine State Police and Connecticut State Police, attempt to identify the individual, also to secure the inventory of personal belongings and thirdly, do what was necessary to get the vehicle towed and removed from the Park, for if high winds or another snowstorm occurred, we may not be able to get it out.

I returned to my home in East Corinth and retired for several hours. At about 6:00 P.M., I made phone contact with Chris to be updated on his progress. He advised that, although the State Police had not been able to make identification or location through the computer system, they were able, through a file search, to identify Louis M. McGuinn of 151 Gilead Street, Hebron, CT as owner of the vehicle. Louis McGuinn was 32 years old (DOB 02-14-64). The Chief Ranger communicated with the Colechester unit of the Connecticut State Police to have an officer make inquiry at 151 Gilead Street in Hebron, CT concerning Louis McGuinn. No one was found at the McGuinn residence, but the officer made inquiry with neighbors, posted a message at the front door and was able to get several names and addresses from Christmas mail sent to the Hebron residence by looking through a window. One such letter had a return address of Fuller McGuinn of 509 Hayworth Circle, High Point, North Carolina 27262 and also a phone number on the cover - 910-885-3376.

Chris called that number and left a message on the answering machine. By afternoon, communication had been made with Fuller, who informed him that his brother Louis had been in a state of depression. Fuller had received a letter at Christmas from Louis that indicated that Louis would commit suicide by Christmas in a remote location where his body would not be found. Fuller had requested a missing persons bulletin be posted for his brother in North Carolina, the home state of Louis McGuinn. In the meantime, Park Ranger MacArthur had found a passport photo of Louis McGuinn when the '92 Toyota was opened. (no key to the vehicle was ever found.) The glove compartment of the '92 Toyota was opened in Millinocket, Maine and a wallet with a photo ID Connecticut driver's license confirmed the identify of Louis M. McGuinn as the deceased hiker. The wallet also contained \$899 in cash and six credit cards that were inventoried and taken to the Bouchard Funeral Home for safe keeping. Fuller McGuinn was given the name and

phone number of the Bouchard Funeral Home in order that plans for the body removal could be made.

In the morning of December 28, 1996, the Chief Ranger communicated with Fuller McGuinn with information concerning the present location of the McGuinn '92 Toyota so that arrangements could be made for transportation to Connecticut. Information concerning the personal items and camping equipment of Louis McGuinn was also discussed for shipment and/or disposal purposes.

The activities of these past four days caused all of us challenges that we do not normally associate to our routine duties of search and rescue. I am extremely proud and grateful to staff and volunteers, whom on this most difficult assignment, fulfilled their tasks with effectiveness and professionalism.

A special thanks to Tom Chase and Charlie Kenney for a quick response to a requested call-in. To Jean Hoekwater and Jan Caverly for their support and assistance, particularly Jean's photographing skills at the scene, and to all staff and volunteers who effectively made the evacuation complete and safe.

In closing, it is interesting to note that on three difficult days prior to the Christmas vacation week, the Reservation Office received several calls from an individual who inquired about winter camping in BSP. When the rules were identified, he became persistent that they did not apply and frustrated by them. In one of the conversations, he asked what was the penalty if caught camping during off season without a permit. There may be no connection between these calls and this incident, maybe there was?

Finally, I would report that driving my vehicle from home to the Park and return, I received phone calls from Warden Headquarters in Greenville and Paul Reynolds of F&G in Augusta. During each conversation, shared information about the operation.

As I write this report, I trust that the incident is the closure of our 1996 operations and with the hours of the clock, we will be opening our doors for 1997 and who knows where these trails will lead us!

DIRIGO SEARCH & RESCUE - TEAM MEMBERS INVOLVED:

Al Martin
9 College Heights
Orono, ME 04473

Eric Batchler
P.O. Box 78
Cardville, ME 04418

Bill McDougal
701 Ohio St.
Bangor, ME 04401

Kevin Donnell
P.O. Box 693
Unity, ME 04988

Sam Ford
P.O.Box 748
Milford, ME 04461

Norm Hagey
453 Wilson St.
Brewer, ME 04414

Sam Cronkite
100 S. Brunswick, St.
Old Town, ME 04468

Ryan Welch
214 Mt. Hope Ave.
Bangor, ME 04401

Stacey Meister
61 Veazie St.
Old Town, ME 04468

Kip McCarthy
39 Fourth St.
Bangor, ME 04401

Mike Avery
40 Riverview Rd.
Hampden, ME 04444

Mike Perry
RR1, Box 1240
Etna, ME 04434

Mike Foster
Box 863
Bangor, ME 04402

IV SAFETY

1. Each spring personnel are responsible for clearing debris, blowdowns and dead trees from the immediate vicinity of the campsites and Park facilities.
2. Picnic tables, lean-to's and bunkhouses are checked for decayed wood on the individual structures and replaced or discarded if necessary.
3. Blowdowns and heavy limbs are removed from and along side roads to a distance of at least 3 feet from the driving surface.
4. First-aid equipment is regularly inspected and a reasonably complete inventory is maintained.
5. Fire equipment, chain saws, lawn mowers and hand tools are inspected sharpened and kept in good condition and safe working order.
6. Propane appliances are properly installed and cleaned on a regular basis.
7. Canoes, boats and motors are inspected and maintained in good condition and safe working order.
8. Stoves and chimneys are properly maintained and cleaned each spring and fall or other times as necessary.
9. Vehicles are regularly maintained and checked to be sure that fire extinguishers and first-aid equipment is ready and usable.
10. Heavy equipment is checked daily and properly maintained.
11. Weather reports are regularly posted at each campground facility including the present conditions at Chimney Pond.
12. Year-round personnel attended an abbreviated logger training course including some classroom and on the job site training.
13. Some employees were trained on the articulating front-end loader that DOT were using at Nesowadnehunk, by DOT training officer Jeff Larraby.
14. Some employees were trained in the daily maintenance and operation of the new Ford back-hoe purchased by the Park.
15. Some seasonal employees received some in-house training with the use of a welder and acetylene/oxygen.
16. Footbridges over streams and bogs were inspected for decay.
17. Park offices, workshop and living quarters were inspected for safety concerns.
18. Park visitors were told daily of mountain hiking conditions.
19. Winter weather conditions resulted in thin ice and unsafe crossing for most of 96 winter.
20. Checks were routinely made of hunters, boaters and snowmobilers to stress safety concerns.
21. Some concern was received at Trout Brook campground when several raccoons had to be disposed of after they became ill and posed a risk to campers. (Rabies test negative). Also a young sick moose was disposed.

V PUBLIC RELATIONS

1. Park Rangers assist the various Search and Rescue groups associated with the Park by hauling gear and towing rescue personnel to and from Roaring Brook. One group training at Chimney Pond was interrupted by the real exercise when they helped locate a missing party coming from Russell Pond that was unable to do the trip in a day (William Lee).
2. Campground Rangers spend much time assisting campers and other motorists with starting stalled vehicles, gaining access to locked vehicles and other related malfunctions.
3. More time than usual was spent shuttling people from South Branch to Roaring Brook after they had become stranded when Wassataquoik Stream reached unsafe levels and campers were unable to ford, thus traveling the Pogy Notch trail instead.
4. The new approach to trying to control toilet vault odors by placing 12" vents in the toilets appears to be working quite well except for the few occasions of heavy air that hold odors close. (One camper pointed out that a downdraft can at times pose a problem).
5. Rangers at Chimney Pond spent a fairly quiet summer as most of the emergency search, rescues and the related overflow problems seems to have shifted to the other side of the mountain.
6. Some Park employees assisted the Maine Audubon Society with the annual loon count.
7. The Ecological Reserves Assessment Teams studied the red spruce on top of North Traveler Mountain.
8. Assistance was shared with other state and local agencies including IF&W, State Police, Sheriffs, Forestry, DOT personal, local police agencies, affiliated Search and Rescue teams, and many others.
9. Assistance was given to fishery biologists in surveying various ponds throughout the Park.
10. Campfire talks and nature walks were weekly performed at Daicey Pond.
11. Experiences were shared with the Volunteers for Peace and their efforts at projects is appreciated.
12. Maine Sunday Telegram completed an interview with Marcia and Gabe Williamson at Daicey Pond.
13. A bear dog found at Trout Brook was returned to its owners after it wandered across the boundary.
14. Some Park employees witnessed a wedding at Daicey Pond, an occurrence becoming more common.
15. The Park became host to various Authority members as well as Advisory Members in their quest for more knowledge of the Park. Another State official (the Governor) also came to see the Park. Their interest in our work is greatly appreciated.
16. Chief Ranger Chris Drew was involved in various speaking engagements in 1996. These include:
1/18/96 Patten Women's Club

- 1/27/96 Presque Isle Snowsled Club
 - 1/31/96 Milo Kiwanis Club
 - 3/1/96 Island Falls Blue and Gold Cub Scout Dinner
 - 3/9/96 Maine Bowhunters' Association, Waterville, ME
 - 4/26/96 Winslow Snowsled Club
17. Park personnel assisted the public by pulling vehicles out of ditches, coordinating wrecker services, "jumping" dead batteries, minor vehicle repairs and hauling tired hikers from trailheads to distant parking lots and other trailheads.

VI SPECIAL ACTIVITIES

1. Assistance was given to the Park by several volunteers by opening and clearing trails of blowdowns, and with various projects in the campgrounds including raking, cleaning toilets and campgrounds and removing debris from campsites.
2. Much activity surrounded Russell Pk. when a late snow melt accompanied by heavy spring rains prevented much use of the back-country trails and campers had to change itineraries and be shuffled by vehicle from South Branch to Roaring Brook because of extraordinary high stream levels. As Russell Pond Ranger Brendan Curran put it, "Evidence of the January thaw is quite dramatic at places along Wassataquoik Stream, many streamside trees were either debarked or broken off."
3. Some time was spent by several Park employees assisting Fish & Wildlife officials in a search effort to locate Joseph Wroblewski who had been missing from Nesowadnehunk Lake for three days over the July 4 holiday.
4. Employees extinguished a car fire on Abol hill.
5. A visitor while trying to unload supplies at the entrance to the walk-in area at Roaring Brook went off the walk-way with his vehicle causing damage to the footbridge, enough so that the bridge had to be replaced.
6. Efforts by a biologist to capture and relocate a deer that had been begging for food and standing on hind legs and cuffing at people's upper torso ended in a fruitless battle. Although the deer was around for most of the summer his antics slowed down toward the end of the summer. Signage was posted advising the public not to feed the deer.
7. A sick moose had to be destroyed near South Branch Crossing.
8. The Trout Brook Farm Campground was troubled by raccoons that have contracted some type of disease and are behaving abnormally. Tests at the Maine Lab indicated the disease not to be rabies. Several raccoons had to be disposed.
9. For the first time in many years an AT hiker reported that some hiking gear had been stolen from his shelter at Daicey Pond. Hopefully such activity will cease when people realize the tremendous amount of dependence that hikers place in their gear.
10. Park employees were involved in putting out a small campfire that had smoldered for a day about 100 yards above Katahdin Falls on the Hunt Trail. Although the

fire was predominantly in spruce duff and covered an area about 40' x 40', it was quickly extinguished. The fire on 9/2/96 was probably due to negligence of an illegal camper.

11. The 112th/192nd helicopter units from the Army National Guard performed a service by airlifting firewood to Chimney Pond and bog-bridging material to several remote locations where native material was not available.
12. The old East Branch road about 1/2 mile long along was finally put to sleep, seeding it down. Indications at present are that it was a job well done.
13. Spring saw the road systems near Dry Brook and the spur road to South Branch suffer from heavy winter and spring rains. Much time and equipment was used for repairs.
14. The gate at the north end of the Black Brook maintenance road was constructed and installed.
15. The driving and service area at the Patten radio repeater was graveled and loamed and seeded down.
16. More boundary work was completed between Camp Phoenix south and to the corner post west of Nesowadnehunk Wilderness Campground, clearing, blazing and painting.
17. Time was well spent clearing culverts of debris deposited by beaver. Eight different areas were hit continuously throughout the summer including plugging completely the twin 6' culverts at Wadleigh Brook.
18. The old access road from the Park boundary to Thistle Pond was permanently closed.
19. Some work was completed on the East SFMA boundary from Trout Brook north to Boody Brook.
20. The crew camps facility was prepared at Trout Brook for volunteers by weather tightening and placing hay around it so that it could be used during November.
21. The new Wadleigh Mountain trail was completed and expected to be open for 1997 season.
22. During a February thaw raccoons came out of hibernation at the bunkhouse at South Branch and attempted to fill up on supplies made available by campers.
23. Spring fishing activity in the Fowler Pond area was light. Summer fishing activity was lighter. Fall hunting pressure was light in the trout Brook area, but heavy in the Webster lake area.
24. A culvert inventory of all Park roads was initiated and total in number, width, and length was completed (as near as possible).
25. A bridge inspection of all bridges in the Park covering a drainage area 100 sq. feet or more was completed by MDOT.
26. A bike accident occurred on Abol hill on 9/01/96 when Winston Browning attempted to pass a vehicle in front and met an oncoming vehicle forcing him to the ground between the two vehicles causing scrapes and bruises.
27. On 8/12/96, a volunteer reported that someone had apparently broken into a garage at McCarthy Field and stolen a small amount of gas.

28. Minor vehicle damage was reported at Katahdin Stream after a party had apparently opened a door that hit a vehicle beside it while both vehicles were parked.
29. Assisted with transportation of Wilderness and Mahoosuc Search and Rescue teams from Abol Bridge to Chimney Pond for training purposes.
30. Trapping and relocating of nuisance beavers and raccoons.
31. Some of the more common numerous activities included:
 - A. Towing vehicles out of ditches
 - B. Boosting vehicles
 - C. Hauling packs and hikers
 - D. Repairing camping and fishing gear, vehicles
 - E. Calling for wreckers
 - F. Loaning of axes, gasoline and oil
 - G. Assisting people who locked themselves out of vehicles.
32. Assisting with 112th and 192nd helicopter crews loading and flying materials into back country.
33. Moved rocks with DOT loader at Nes. for search and rescue command post to relocate to Nes. Wilderness Campground.
34. Suppression of small forest fire near Katahdin Falls area.
35. Transported Governor's group from Roaring Brook via sled to Abol Bridge.
36. Coordinated school group with planting of 33 trees and leveling of loam in Togue Pond area.
37. Assisted George Smith with release of orphan moose near Bear Brook.
38. Investigated sexual harassment of Trail Crew personnel.
39. Assisted Sea & Shore Recovery System at Support Services Complex - removal of hazardous materials.
40. Assisted Public Safety Radio Tech Lance Cook with several radio problems/concerns.
41. Assisted Fred and Jamie Herring with pouring of cement for Abol Field DOT garage.
42. Temporary housed bear dogs.
43. Investigated vehicle-bike domestic quarrel Abol Hill.
44. Region III job shadow students.
45. Caught and relocated domestic house cats (3).
46. Coordinated work projects for Aspire participant Steve Butler.

VII NEW CONSTRUCTION

1. The crew camp at Roaring Brook was pretty much completed with new cupboards installed (built during the winter by Carter Smith).
2. A new floor and ceilings were installed in the crew camp at Chimney Pond.
3. Two new pit toilets were constructed at Daicey Pond and the old ones were removed.

4. A new toilet vault was located at the Abol Pond Scout area and a new building placed on it.
5. Two new double vault toilets were installed in the upper campground area at South Branch and the old ones were removed.
6. The old porch on the year-round facility at Nesowadnehunk was removed and new one constructed and faced with ship-lap pine siding.
7. A new DOT personnel living quarters was set up at Abol Field. A new septic system was added, plumbing and running water and the facility was varnished inside and painted outside. Also a new small garage facility with a cement floor was built for equipment storage.
8. A new bunkhouse facility was located beside the old one at South Branch and will be finished inside by Park Rangers during the winter months.
9. Three covered picnic shelters were placed in the group area at Trout Brook to be used by each of the four groups staying there.
10. A new parking area was completed at Slide Dam with a new trailhead leading from the area to avoid congestion and wear and tear along the brook area.
11. Renovations were made to the Kidney Pond Ranger camp to provide a new office and separate living facilities with a common kitchen.
12. A combination woodshed and utility building was completed at Kidney Pond beside the workshop that will replace the old polebarn to be removed during the 97 season.
13. A pit toilet was constructed at Billfish Pond.
14. Thirty-five new picnic tables were prefabbed and delivered to campgrounds as replacement.
15. The septic disposal area road system had over 450 yds. of small stone installed for accessibility, and the Black Brook road had over 500 yds of gravel hauled from Dwelley Pit and leveled on road surface.
16. Two complete solar systems were installed at the SFMA Coffeelos camps (35 amp input) and the Togue Pond Ranger Camp (24 amp input).

VIII LAW ENFORCEMENT

Baxter State Park maintains a low profile law enforcement policy. Many more warnings are issued than actual court summons. Good education and information practices as well as a visible presence and public contact by park Rangers serve to protect and reserve the resources of Baxter State Park.

IX MAINTENANCE

Trail Maintenance Report - 1996

TRAIL REPORT 1996

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

SCA Trail Crew Members:

Jennifer S. Forman, Jackson, MS
Laura Nelson, Aurora, CO
Evan Ramsey, Pisgah Forest, NC
Paul Sannicandro, Hopedale, MA
Trinh Truong, Waukesha, WI
Erin Walker, Camden, NY
Jacob Sitzman, Wapakoneta, OH

Brenda Medcoff, Jay, ME (CCCM Intern)

STATISTICS:

Trail Supervisor:

	Hours	Percent
Field Work	932	90%
Office	60	6%
Support Servies.	41	4%
	<hr/>	
	1033	100%

Foot Patrol 381 mi.

Service truck mileage. 3300 mi.

Suburban mileage. 3717 mi.

Trail inspected 49.8 mi.
 cleared of blowdowns 120.7 mi.
 cleared of brush. 11.6 mi.
 blazed 29.6 mi.

Waterbar 51

Treadway Projects.10
 Bridge Projects 5

TOTAL HOURS SPENT ON TRAIL WORK:

Trail Supervisor	690
Trail Crew Leader (NR)	607
SCA	2445
CCCM	500
MATC	78
MATC FORCE	270
Sierra Club	280
Bangor AMC	64
PATH	180
AMC Service Trips	720
Individuals	<u>748</u>
Total	6582 hours

TOTAL NUMBER OF TRAIL VOLUNTEERS IN 1995: 80

TRAILS INSPECTED:

Sentinel	0.6	Wassataquoik Stream	3.9
North Peaks	2.0	Wassataquoik Lake	14.3
Hunt	1.3	Abol	2.3
Sentinel Link	0.5	Chimney Pond	3.3
Saddle	2.2	Cathedral	0.2
Sandy Stream Pond	1.4	North Basin	1.2
Russell Pond	7.1	Northwest Basin	2.0
North Basin Cut-off	0.7	Hamlin Ridge	1.5
Slaughter Pond	0.7	Hamlin Peak Cut-off	0.2
Appalachian	0.5	Burnt Mt.	<u>1.3</u>
Pogy Notch	2.5		49.8 mi.

TRAILS CLEARED OF BLOWDOWNS:

North Traveler	1.5	Howe Brook	2.0
Five Ponds Trail	5.3	South Branch Mt.	4.5
Middle Fowler Pond	5.5	Ledges	0.2
Freeze Out	15.4	Sentinel	3.3
Fowler Brook	1.3	Wassataquoik Stream	3.9
North Peaks	3.7	Wassataquoik Lake	13.3
Pogy Notch	9.6	Marston	3.8
Mt. Coe Trail	3.3	Sentinel Link	0.5
OJI Link	0.5	Lily Pad Pond	0.4
OJI	3.6	Doubletop Mt.	8.0

Slaughter Pond	0.9	Draper Pond	0.2
Little Rocky Pond	0.6	Rocky Pond	0.6
Little Beaver Pond	0.6	Celia & Jackson Ponds	1.6
Sentinel Mt.	3.3	Hunt	3.5
The Owl	2.2	Appalachian	5.2
Abol	1.0	North Basin Cut-off	0.7
North Basin	1.2	Russell Pond	7.1
Sandy Stream Pond	1.4	Kidney Pond Outlet	<u>1.0</u>
			120.7 mi.

TRAILS CLEARED OF BRUSH:

Russell Pond	1.0	Wassataquoik Stream	1.8
North Basin	0.5	Wassataquoik Lake	2.0
Northwest Basin	1.0	Pogy Notch	<u>0.8</u>
Doubletop	4.5		11.6 mi.

TRAILS BLAZED:

Abol	2.3	Chimney Pond	0.3
North Basin	0.4	Hamlin Ridge	1.5
North Peaks	2.0	Northwest Basin	2.0
Pogy Notch	2.5	Wadleigh Brook	10.0
Wassataquoik Lake	7.3	Burnt Mt.	<u>1.3</u>
			29.6 mi.

WATERBARS CLEARED:

Chimney Pond Trail	30
Abol	<u>31</u>
	51

TREADWAY PROJECTS:

1. Chimney Pond Trail: 2 persistent puddle areas were filled with gravel near the junction of the Chimney Pond Trail and Russell Pond Trail.
2. Chimney Pond Trail: 12 rock steps and side rip-rap were installed just above the bridge over Pamola Brook. This section of trail was stabilized with log steps in the mid 1970's and has started to decay and collapse. Replacing the old logs with rock over the next several seasons could help maintain this area.
3. Sandy Stream Pond: The crew continued to replace aging bridges in the popular Sandy Stream Pond area. 540 feet of bridging was replaced this season. We hope to replace 200 feet of bridging in 1997.
4. Cathedral Trail: Over 1000 square feet of rip rap was placed around the steps to stabilize the soils. It took the better part of 3 weeks to collect the stones to finish this job. The closest rock source was over 300 ft. away. Completion of this project (started in 1992) will allow us to begin rebuilding sections of the upper Saddle Trail in 1997.

5. Helon Taylor Trail: With the help of CCCM we rebuilt the beginning of this trail. 8 rock steps were installed. We hope to do more of this type of work on this busy trail in the future.
6. Hunt Trail: Work continued on the extensive rock steps above Katahdin Falls. With the help of the MATC FORCE and PATH, enough rock was quarried to build at least 30 more steps on this severely eroded piece of trail. Rocks were lifted 85 vertical feet and 200 horizontal feet to the trail with a winch/cable system. 13 new steps were built.
7. Wassataquoik Lake Trail: With the help of an AMC Service Group and BSP volunteers, we put an additional 150 feet of side hill trail along the boulder strewn slope of Wassataquoik Mt. near Green Falls. Rough terrain made it necessary to build extensive stone retaining walls in order to provide a reasonable path through the area.
8. Wassataquoik Lake Trail (Center Pond Relocation): 1200 feet of side hill trail was dug in by the Sierra Club Group at several locations north of Center Pond. We hope to complete the task in 1997.
9. Saddle Trail: The trail was rebuilt for the first 200 feet from the Ranger Station. 6 steps were installed, and the drainage ditch was improved to protect the trail and the Ranger Station from washouts.
10. Saddle Trail: 40 square feet of low-angle retaining wall and 1 rock step were installed near the upper junction with the Cathedral Trail.

BRIDGE PROJECTS:

1. Sandy Stream Pond: Improvements were made to the bridge over the West Outlet of the pond. Two sections of bridge were connected to illuminate 2 awkward spots, and ramps were installed at each end of the bridge.
2. Sandy Stream Pond: The bridge over East Outlet was replaced (18 ft. span).
3. Chimney Pond Trail: The bridge over Blacksmith Brook was removed by flood waters in January, so we replaced it with a new snowsled bridge. The new bridge has a main span of 14 feet, and is 12" higher than the old one. Ramps have been added to facilitate snowsleds. We also bridged a small brook on the winter trail with a 12 foot span.
4. Appalachian Trail: New bridges were built at the Outlets of Tracy and Elbow ponds. The bridges consist of two 8" square timbers spaced side by side to provide a 17" wide walking surface. The Tracy bridge is 58 feet long, and the bridge at Elbow pond is 64 feet long.

NEW TRAIL CONSTRUCTION:

1. Wassataquoik Lake Trail (Center Pond Relocation): This relocation was blazed and opened in July. Heavy moose traffic has created extensive muddy sections south of Center Pond. We hope to bridge most of these in 1997. We improved

about 1/2 of the rough areas north of Center Pond, and plans are to finish the task next season.

2. Trail crew assisted SFMA staff with clearing the new Wadleigh Brook Trail. The new trail will be about 10 1/2 miles long when completed. Trail Crew contributed 1022 hours of labor to the project.

TRAIL VOLUNTEERS 1995

INDIVIDUALS - MORE THAN 20 HRS SERVICE

Robert William Foster, Sr.
RFD #4 Box 7890
Gardiner, ME 04345

Stephen L. Crowe
4 Sargent St.
Cherry Valley, MA 01611

Carmen D. Drowfoot
345 Avon Rd Apt. E-168
Devon, PA 1933

Frank Trautmann
Box 810
Rockport, ME 04856

Charles S. Burwell
RR1 Box 1730
Dixmont, ME 04932

Roberta Dobbs
302 Bear Creek Road NE
Fort Payne, AL 35967

Elsa J. Sanborn
P.O.Box 8087
Bangor, ME 04402

Paul M. Chartier
35 Abbey Ln.
East Bridgewater, MA 02333

Leslie O. Mitchell-Watson
144 North River Drive
Woodstock, VA 22664

Gary Stillman
95 Nuangola Ave. Rt. 8
Mt. Top, PA 18707

Megan Day
822 1/2 No. Corona
Colorado Springs, CO 80903

Joseph A. Maurer
261 Oak Knoll Dr.
Marine St. Croix, MN 55047

Robin S. Havens
539 Kickorillo
Houlston, TX 77079

Sara A. Colburn
15 Woods Lane
New Boston, NH 03070

Hallie K. Owen
141 Lakeland Drive
Pisgah Forest, NC 28768

Alan Watson
Box 675
Woodstock, VA 22664

INDIVIDUALS - LESS THAN 20 HRS SERVICE

Richard A. Aspinall, Durham, ME
Paul Richard, Lewiston, ME
Francine Richard, Lewiston, ME
Mike Oujere, Auburn, ME
Laurie buck, Burdett, NY

MATC FOOTPATH RECOVERY CREW (FORCE) - 30 HRS

Fred Firman
6485 Bright Plume
Columbia, MD 21044

Steve Willis
2305 Fox Hollow Lane
Magadore, OH 44260

Margaret Donovan
18 Lafayette Rd.
Larchmont, NY 10538

Emily Riddle
252 Strong St.
Amherst, MA 01002

Debbie Hofford
1469 Spencerport Rd.
Rochester, NY 14606

Sara Colburn
New Boston, NH

Wylie Haggerty
341 Ackerman Ave.
Mountainside, NJ 07092

Robin S. Havens
Houston, TX

Sheri Later
P.O.Box 283
Bingham, ME 04920

SIERRA CLUB - 40 HRS

Dale Stephens
8801 Vineyard Avenue
Cleveland, OH 44105-6626

David B. Eubanks
P.O.Box 1054
Tappahannock, VA 22560

Fred Evans, Jr.
140-11 Negundo Ave.
Flushing, NY 11355

GaleE. Maleskey
1373 Pennsylvania Ave.
Emmaus, Pa 18049

Ray Fortunato
500 Winchester Ave.
Staten Island, NY 10312

Elizabeth D. Dodnley
26 O'Neill Drive #4
Gaithersburg, MD 20877

Janet Evans
24 Ingleside Rd.
Brewster, NY 10509

APPALACHIAN MOUNTAIN CLUB SERVICE TRIPS - 40 HRS

Craig Collins
19 Anson Rd.
Portland, ME 04101

Claudia Burger
21-15 34th Ave.
Long Island City, NY 11106

Jeffrey Holdsworth
31 Old Covered Bridge Rd.
Newtown Square, Pa 1973

Hanna Horigan
1414 Forest Ave. Unit 10
Portland, ME 04103

David Jorgenson, Jr.
89 Harborview Ave.
Bridgeport, CT 06605

Dierdre McCormick
54 Biltmore Ave.
Elmont, NY 11003

Joseph Proulx
17 Amy Circle
Newton, MA 02168

Erin Stevenson
1397 Poquonock Ave.
Windsor, CT 06095

Malcolm Crawford
19 Ellison Road
Lexington, MA 02173

Victoria Hackett
279 Payson Road
Belmont, MA 02178

Jessica Turner
15 Paul Revere Road
Bedford, MA 01730

Christine Frost
859 Ruthton Rd.
York, PA 17403

Carl Anderson
111 Beach Park Road
Clinton, CT 06413

Connie Beal
255 Clapp Road
Scituate, MA 02066

Jason Beal
255 Clapp Road
Scituate, MA 02066

Doug Dodlan
63 Kaler Road
So. Portland, ME 04106

Connie Gray
112 Hawkins Road
Putnam, CT 06260

Brad Morith, c/o MMF
Box K
Marlboro, VT 05344

PENOBSCOT AREA TREKKERS AND HIKERS - PATH - 30 HRS

Susan Bodyke
109 Pleasant St.
Milford, ME 04461

Ron & Meg Logan
RR5 Box 265
Bangor, ME 04401

John Minot
109 Pleasant St.
Milford, ME 04461

Julie Hagle
25 Dean St.
Ellsworth, ME 04605

Mary Knowlton (2 days)
40 Kelly Road
Orono, ME 04461

Pam Abner (1 day)
64 Plymouth St.
Methuen, MA 01844

BANGOR AMC COMMITTEE - 8 HRS

Shirley Ellis, Old Town, ME
Don Henderson, St. Thomas USVI
Scotty Folger, Orono, ME
Tim Murray, Glenburn, ME

Beth Cuddy, Orrington, ME
Karen Day, Orono, ME
Tom Lechner, Orono, ME
Jim Tibbit, Old Town, ME

NOTES:

1. The total amount of hours spent on trail work increased from 83780 hours in 1995 to 6582 hours in 1996 (an increase of 3%).
2. Crew Leader Nik Rogers deserves thanks and appreciation for his fine work with the Trail Program this season. Nik's knowledge of the Park's trail system and his trail and people skills make him a valued asset to our program.
3. The burden of working on 2 major relocations in one year has caused us to neglect basic maintenance in many areas of the Park. Many waterbars did not get cleared this year, and we are faced with overgrown trails in many areas.
4. We will need to schedule time for maintenance of housing facilities in 1997. The buildings at Roaring Brook need stain, floors painted, a new chimney, broken window glass replaced, etc. The Kidney Pond facility will need improvements in order to make it suitable for a full time work station. A full trail schedule from mid-May to mid-November has left little time for repair work.

CONCLUSION:

Working on Baxter Park trails continues to be a challenging and enjoyable experience. Thanks goes to all Park staff who helped make this possible. In particular, we appreciate Chris Drew, rosemary James and Tim Sides for helping to keep our machines and projects going along.

I am especially grateful for all the volunteers who came to help us take care of the trails. 80% of our trail work is done by people who volunteer their time.

Respectfully submitted,

Lester C. Kenway
Trail Supervisor

1996 ANNUAL REPORT OF PARK CARPENTER
ALBERT RICKARDS

1. Drew up plans for lean-to designs.
2. Installed new bulletin board.
3. Built four-man lean-to in carpentry shop.
4. Built several 6'x6' handicap toilets.
5. Built bookshelf for Park Director's office.
6. Moved truck load of supplies to be flown to Chimney Pond from Abol store.
7. Cleaned out Park Director's office (moved everything out of office for renovations & measured for new doors).
8. Hauled firewood up to Chimney Pond.
9. Built valance for Director's office.
10. Assembled chairs for Park Director's office.
11. Built doors.
12. Interviews for new employees on March 20 and 21st.
13. Built 28 picture frames for Park Naturalist.
14. Cleaned out pole barn.
15. Built desk table extension for Park Director's office.
16. Took down entryway panels at Headquarters.
17. Repaired door at Togue Pond.
18. Worked on installing yard fence.
19. Repaired Park Director's desk.
20. Installed 28 pictures and frames on walls of information center.
21. Hauled new refrigerator and stove to Abol DOT camp.
22. Repaired blown over outhouse at Katahdin Stream.
23. Moved and uprighted outhouse at Katahdin Stream onto cement vault.
24. Went to Kidney Pond with Chief Ranger to discuss repair projects.
25. Hauled staging, planking and supplies to DOT camp.
26. Cleaned out DOT camp at Abol Field.
27. Installed two coats of water based finish on walls, ceilings, windows, doors, trim and cupboards at DOT camp.
28. Made up job standards for Laborer I.
29. Replaced fiberglass roof on privy at Katahdin Stream.
30. Repaired leaking roof at Trapper Camp at Togue Pond.
31. Assembled picnic tables.

32. Installed five solar tubes in information center at Togue Pond.
33. Cut out countertop for double bowl sink.
34. Cut & installed handrail on deck at Trapper Camp.
35. Replaced piping for wood stove at Trapper Camp.
36. Built rules and reservations box.
37. Built a deck base for propane storage.
38. Disassembled pressure treated handicapped entrance ramp.
39. Built closet for Togue Pond.
40. Cleaned out basement at Togue Pond camp.
41. Assembled computer desk for Roxie.
42. Constructed new handicapped privy for South Branch Pond.
43. Applied three coats of water based varnish to walls, ceiling and cabinets at Togue Pond bunkroom.
44. Cut hole through wall of Mechanic's office and framed for new airconditioner.
45. Installed new airconditioner in Tim's office.
46. Built new wood box.
47. Cut and installed log cabin siding on outhouse
48. Built 12 new trail registration boxes.
49. Built two privys for Daicey Pond Campground.
50. Installed new ridge vent along ridge of Mountain View camp and recapped roof.
51. Assembled table and chairs for crew camp at Togue Pond.
52. Worked on renovations of Trapper camp.
53. Built battery box for information center.
54. Assisted in installing cement vault for Abol privy.
55. Worked on renovations of Kidney Pond camps.
56. Constructed outhouse for Abol Scout area.
57. Built wall for new bunkroom.
58. Went on mountain rescue up Hunt trail; assisted with evacuation of 72 year old woman.
59. Cut and installed ceiling molding.
60. Built set of bunkbeds.
61. Constructed handicapped privy at South Branch Pond.
62. Washed and cleaned truck as needed.
63. Built new handicapped privy at Abol scout area.
64. Stripped off old metal roofing at Kidney Pond garage.
65. Shingled roof at Kidney Pond garage.
66. Covered wood piles with large tarps at Kidney & Daicey Pond.
67. Constructed removable walls for bunkroom at Togue Pond information center & applied three coats of water based varnish on new walls of bunkhouse.
68. Installed new walls in information center.
69. Built new wood box for bunkroom at Togue Pond.
70. Cleaned out pole barn.
71. Installed airconditioner covers at Headquarters building, supply & Director's apartment building.
72. Built clothes and hat rack for bunkroom at Togue Pond.

73. Installed new lockset on maintenance building.
74. Repaired holes in ceiling at Headquarters.
75. Repaired file cabinets at Headquarters.
76. Repaired desk at Headquarters.
77. Replaced lockset on Director's apartment.
78. Repaired table saw and replaced broken parts on sawbuck and broken parts on jigsaw.
79. Installed paneling in bathroom at Headquarters.
80. Installed towel rack and soap dispenser at Headquarters.
81. Made molding for base of two Mt. Katahdin models.
82. Estimated materials & ordered metal roofing for wood storage shed.
83. Sorted and stripped truck load of old plywood.
84. Cut wood, cleared lot where conference room is to be built & loaded several dump truck loads of brush & hauled to dump.
85. Inventoried tools in tool chest.
86. Cleaned out storage room upstairs at Headquarters.
87. Repaired table in auditorium at Headquarters.
88. Moved computer desk and file cabinets in Park Secretary's office.
89. Constructed 19 trail registration boxes.
90. Repaired Park Secretary's computer desk.
91. Installed railing around handicap entrance at Park Headquarters.
92. Replaced lights in Park Secretary's office.
93. Cleaned out Jean Howes' office for renovation.

BAXTER STATE PARK ANNUAL REPORT
MAINTENANCE DIVISION - AUTOMOTIVE MECHANIC
Timothy Sides

Month/Year January - December 1996

Person Reporting Timothy C. Sides

Date Submitted January 16, 1997

Hours Worked:

Shop	Hours 1,469
Office	Hours 63
Field	Hours 214
Meetings	Hours 13
Travel	
Planning/Research	

Misc.

TOTAL

Hours 1,759

VEHICLE/EQUIPMENT INFORMATION

Battery Replacement/Recharge	No.	6 - new
Body Repair/Painting	No.	32
Brake Repair	No.	13
Canoe/Boat Repair	No.	-
Chain Saw Repair	No.	7
Clutch Repair	No.	-
Electrical Repair	No.	41
Exhaust System Repair	No.	14
Front End Repair	No.	30
Generator Repair	No.	-
Motor Repair (include. valves).	No.	-
New Tires installed	No.	31
Outboard Repair	No.	-
Rear End Repair	No.	7
Road calls for Park Equipment	No.	3
Snowsled Repair	No.	-
State Vehicle Inspections	No.	26
Tires Repaired	No.	16
Tune ups	No.	5
Universal Joint Repair	No.	2
Vehicles Serviced (grease, oil).	No.	113
Waterpump Repair	No.	1
Window Replacement	No.	7
Pressure Washed.	No.	17

REGION I CAMPGROUND AND PARK RANGER MAINTENANCE REPORT

CHIMNEY POND - (CRI Greg Hamer, CA John Taylor, Alpine Ranger-Stewart Guay)

1. Usual duties at Chimney Pond during the winter months include registering of campers and reaffirming rules and regulations and distributing the latest weather and avalanche danger reports.
Facilities including bunkhouses, lean-to's and toilets are monitored and cleaned as needed.

Much time is spent preparing the Chimney Pond trail for snowmobiles that are used during the winter for transportation and to resupply the campground for the next summer season.

2. Blowdowns are regularly removed as they occur.
3. Prepared the trail to Sandy Stream Pond for the use of snowmobiles to move 4" thick bog bridge material to desired locations.
4. Moved approximately 3 cord of firewood from Roaring Brook to Chimney Pond by snowmobile
5. Hauled a year's supply of propane gas tanks to Chimney Pond.
6. Reset outhouse for Ranger's camp after it had been blown over by high winds.
7. Remove trash that had accumulated during the previous season to Roaring Brook to be removed from the Park after snow-melt.
8. Routinely maintained and repaired snowmobiles as needed.
9. Removed empty used propane cylinders to Roaring Brook.
10. Hauled in and resupplied Chimney Pond with requisitions needed for the upcoming seasons.
11. Hauled cedar bog-bridge material from Abol Bridge to Sandy Stream Pond.
12. Moved firewood flown and landed on Chimney Pond to the bunkhouse to be used by winter parties.
13. Cleaned and prepared snowmobile for auction.
14. Split and stacked firewood brought to Chimney Pond the previous winter.
15. Removed waste from outhouses and started composting procedures.
16. Cleaned and painted crew and bunkhouse floors.
17. Built, painted and installed screens for crew camp.
18. Replaced small bridge at the beginning of the Dudley Trail.
19. Started water systems for camps.
20. Replaced small gate at entrance of Ranger station.
21. Removed blowdowns from all the trails in vicinity of the campground.
22. Painted and repaired outhouses as needed.
23. Repaired shingles on camp and shop that had been damaged the previous winter by high winds.
24. Shingled #5 lean-to.
25. Prepared area near bear poles to prevent vegetation damage.
26. Stained and lettered signs as needed.
27. Clipped brush along the northwest Basin trails.
28. Worked on rip-rap on shore of Chimney Pond.
29. Installed water bars in campground footpath areas for erosion control.
30. Cleaned ditches in campground area.
31. Clipped brush on trail to Pamola Caves and along Chimney Pond trail.
32. Scraped and stained fireshed.
33. Installed small 4' x 5' fence to hide propane tanks from public view.
34. Installed 2 cabinets to bunkhouse.
35. Installed new roof on outhouse for main camp.
36. Watersealed woodwork on porch main camp.
37. Stained 1/2 bunkhouse exterior.

38. Shoveled out waste from outhouse at Davis Pond.
39. Worked on inventory and spring requisitions.
40. Prepared for winter: trash placed in fireshed, empty propane placed in lean-to #1, window covers installed, flagpole removed, stored boat for winter, cleaned chimney, serviced radio storage batteries, set out measuring stick for winter snows.
41. Assisted clearing, blazing, and painting Park boundary.
42. Assist with remodeling headquarters in Millinocket.
43. Assist Park Rangers with other work projects.

ROARING BROOK - (CRI Stewart Guay, CA Carter Smith)

1. The campground was opened up by cleaning sites, outhouses, buildings and bunkhouses, the water was hooked up and debris and blowdowns removed.
2. The bunkhouse floor was cleaned and painted.
3. Trash brought to Roaring Brook the previous winter from Chimney Pond was hauled to Millinocket.
4. Empty propane cylinders brought from Chimney were returned to Millinocket.
5. Firewood for Chimney Pond was cut up and stacked ready to haul to Chimney Pond during the winter.
6. The office was prepared by properly posting information and getting reports ready to process.
7. Lawn mowers, chainsaws and fire pumps were serviced and ready for use.
8. The old bridge to the walk-in sites was torn out and a smaller one was installed.
9. Mowed lawns periodically at Roaring Brook, Avalanche and Rum Brook day use area.
10. Cleaned chimneys in area as needed.
11. Cleaned out garage and sorted requisitions.
12. Hauled and stacked firewood for sale to campers from Abol Pit as needed.
13. Assist with the annual cleaning out of outhouse waste.
14. Assisted with repairing roads after hurricane "Bertha".
15. Removed boulder from Ranger parking area and leveled with gravel.
16. Put new screens and screen door on crew camp and painted porch floor and steps and finished interior walls.
17. Assembled and stained picnic tables as replacement.
18. Scraped and painted trim on windows for bunkhouse.
19. Removed blowdowns from area trails.
20. Assisted with maintenance of Togue Pond beach facilities and removed litter as needed.
21. Cut, split, and stacked 1 cord firewood for use at Roaring Brook.
22. Assist with cutting and splitting of firewood for Togue Pond gate.
23. Checked parking lot at end of day for removal of litter and see how many people may still be hiking on mountain trails.
24. Hauled firewood from McCarthy Field to Roaring Brook for use by winter campers.

25. Closed up campground at the end of the season by securing picnic tables draining water and completing inventory and requisition list.
26. Cleaned up, washed, and turned in vehicle reports.

RUSSELL POND - (CRI Brendan Curran, CA Neal Sleeper)

1. Assisted in early spring moving supplies and dump truck to Daicey Pond and Kidney Pond.
2. Carried some supplies and radio to Russell Pond.
3. Checked over buildings and surveyed for winter damage and uprighted outhouse for main camp that had blown over during the winter.
4. Restored water supply for administrative facilities.
5. Sorted and stored requisitions and lumber
6. Set out paddles and life vests, eliminating seat cushions at Russell, Deep, Six, Pogy Ponds and Wassataquoik Lake.
7. Cut to length and peeled logs that had fallen during the winter months.
8. Repaired roof of privy site 16 that had been damaged.
9. Painted and stained outhouses as needed.
10. Cleared area trails of blowdowns.
11. Stained lean-to's 3 and 4.
12. Built plywood box to protect radio batteries from dust.
13. Painted porch and floor in bunkhouse.
14. Built and installed storage box for flotation devises for Deep Pond and Russell Pond.
15. Removed blowdowns from trail from Russell Pond to above Davis Pond and North Peaks Trails.
16. Removed small brush from helipad at Russell.
17. Replaced old torn window tarps at island site at Wassataquoik Lake.
18. Scraped, stained and lettered trail signs as needed.
19. Replaced radio batteries with deep cycle.
20. Installed radio antenna on mast for cellular phone.
21. Built tool box for carpenter tools.
22. Built and installed 'bog-bridge' style crossing over Turner Brook on Russell Pond Trail.
23. Built and installed log platform in spring area.
24. Stained and painted trim on crew camp and workshop.
25. Painted office and varnished paneling in main camp.
26. Carried new antenna from Wassataquoik Lake to Russell and replaced the old one.
27. Regularly cleaned and maintained outlying sites at Little Wassataquoik Lake, Wassataquoik Lake, Wassataquoik lean-to's, Davis Pond and Pogy Pond.
28. Cut up and split firewood hauled in during the previous winter.
29. Prepared junk and trash for winter haul-out.
30. Completed inventory and requisition list and closed out camps, campground and campsites, and prepared canoes for winter storage.

SOUTH BRANCH PONDS - (CRI Keith Smith, CA Dan Anderson)

1. Spring cleaned camps, campground, campsites, and bunkhouse.
2. Put out paddles and life vests, and inspected canoes.
3. Inspected boats and outboard motors prior for use.
4. Hooked up water lines to administrative buildings.
5. Removed blowdowns and stubbs along roadways.
6. Repaired screens and washed bunkhouse thoroughly.
7. Cleared culverts of gravel and debris in campground.
8. Stained and launched swim decks and docks.
9. Assisted Park Rangers with culvert replacement and installation on Park road.
10. Stained, lettered and replaced sign posts.
11. Stained, painted and repaired outhouses.
12. Mowed lawns and weed-whacked at South Branch, South Branch crossing, Burnt Mountain and McCarthy Field.
13. Excavation in campground for two new outhouse 1000 gals. vaults and buildings.
14. Hauled empty propane tanks from north region to Millinocket.
15. Polyurethaned interior and stained interior of 2 new outhouses.
16. Repaired screens and installed at McCarthy Field camp.
17. Stained 5 new picnic tables.
18. Assisted with patrolling Fowler Ponds area removing litter, checking fireplaces, and cleaning outhouses.
19. Assisted with removal of waste from toilets to new waste disposal area at Black Brook.
20. Built and leveled new steps for crew camp.
21. Started erosion control and limited access to certain sites along roadway on shore of pond. Also limited vehicle access for day use area.
22. Started limiting access to heavy used outhouse by blocking off unnecessary access trails.
23. Stained protective fence at South Branch near office.
24. Hauled and spread 30 loads of gravel to various campsites.
25. Transplanted several small trees to some needed locations in campground.
26. Closed up campground securing canoes and boats and motors, inventoried supplies and requisitioned for next season, pulled in swim docks and decks, secured picnic tables, hauled wood for winter use for the bunkhouse and properly drained water systems using non-toxic anti-freeze when required.

TROUT BROOK -(CRI Jonathan Milne)

1. Opened campground by cleaning outhouses and toilets, raking sites and removing debris and blowdowns from the previous winter.
2. Renovated tentsites 16, 17, 19, 25, 26, 27, 29 with gravel and lot barriers.
3. Placed a 6" culvert at tensite 16 for proper drainage.
4. Stained outhouses and painted trim.

5. Stained 7 picnic tables, office steps, sign posts and signs and lettered signs.
6. Installed gutters over entrance to office porch.
7. Dug and elevated outhouse at Long Pond Pine site.
8. Placed road center post at Telos waste wood disposal site to limit access of motor vehicles.
9. Serviced lawn mowers, chainsaws, fire equipment and weed-whacker.
10. Assisted back country patrols by cleaning toilets, removing litter, raking sites and cleaning fireplaces in the Fowler Ponds area.
11. Mowed lawn areas in Trout Brook Campground
12. Rolled 2400' fire hose into bags to be distributed throughout Park.
13. Assisted installing/replacing culverts on perimeter road.
14. Installed new hiker registration box at new trailhead at Trout Brook.
15. Assisted removing blowdowns from the perimeter road area.
16. Assisted building outhouse at Billfish Pond.
17. Cleaned and organized workshop and pole barn areas.
18. Painted flagpoles at Trout Brook Campground and Matagamon Gate.
19. Renovated K.P. Dam campsite using 4 loads of gravel.
20. Erected and stained posts for traffic control in dumpster area.
21. Assisted with monitoring culverts plugged by beaver.
22. Repaired railing on footbridge across Trout Brook.
23. Transplanted trees in group area to differentiate site areas.
24. Brushed out Horse Mountain Trail.
25. Hauled firewood from McCarthy Field to Trout Brook for sale to campers.
26. Assisted with campground coverage at South Branch Ponds and Matagamon Gate as needed.
27. Assisted with coordinating projects for volunteers.
28. Dug holes for posts for covered shelters in group area.
29. Routinely checked canoes and life preservers and monitored canoe activity for Trout Brook and Matagamon Lake.
30. Inventoried supplies in campground and requisitioned for the next season.
31. Moved firewood for winter use to bunkhouse facility.
32. Assisted splitting firewood for Ranger facilities.

MATAGAMON GATE - (Gatekeepers Dana Miller, Ted Hansen, Phil Hill)

1. Cleaned office, toilets and housing facilities.
2. Serviced lawn mower and mowed grass at the gate and boat landing as needed.
3. Installed new plastic water tank at gatehouse.
4. Stained new workshop behind gatehouse.
5. Stained signs and sign posts and lettered.
6. Stained gatehouse.
7. Installed shelves and tool boxes in new workshop.
8. Cut, split and stacked firewood for gatehouse use.
9. Assisted spreading loam around boat landing area.
10. Inventoried supplies and requisitioned for the next year.

11. Closed gate by draining water systems and adding non-toxic anti-freeze where appropriate.

TOGUE POND GATE - (Gatekeepers Diane Freelove, John Doe, Jennifer Hall,
Joanna Thorpe, Heather Lee)

1. Cleaned gatebooth, toilets and facilities regularly.
2. Painted signs and sign posts.
3. Stained outhouses and painted trim.
4. Mowed lawns in gatehouse as needed.
5. Cut, split and stacked firewood for gatebooth and Mountain View camp.
6. Seeded lawn area at Mountain View camp.
7. Inventoried supplies and requisitioned for next year.

PARK RANGERS - (Barry MacArthur, Loren Goode, Thomas Chase, Charlie Kenney)

1. Early winter activities included opening and maintaining a snowmobile trail to Russell Pond, removing blowdowns, and dragging the trail to prepare for resupplying and removing trash.
2. Continued maintenance and repairing of snowmobiles is performed.
3. Routine patrols of areas within and surrounding the Park are carried out with the main theme of preservation and protection.
4. Rangers share responsibility for communication and enforcement of the special winter regulations regarding parties winter camping and winter climbing at Chimney Pond.
5. Snowmobile monitoring and enforcement.
7. Rangers performed Duty Officer Responsibilities alternating various weekends as scheduled.
8. Built 2 1/2" by 6" tines for temporary use with bucket of 966 Caterpillar loader.
9. Removed and hauled brush from Millinocket garage area to recycle facility.
10. Built or repaired several small bog-bridges on the Russell Pond winter trail.
11. Resupplied Russell Pond with requisitions, propane and firewood.
12. Removed old shingles from Wassataquoik Stream to South Branch Ponds.
13. Patrolled Park roads removing blowdowns that have fallen during the winter months.
14. Picked up 15 bags of bark and peat moss at Patten and took to Millinocket to be hauled to Chimney Pond for composting during the next season.
15. Sorted nails and bolts and placed them in appropriate bins at Trout Brook garage.
16. Removed blowdowns from back country trails such as the Webster Lake trail.
17. Installed cross-country trail markers on the winter trail to Russell Pond.
18. Assisted hauling requisitions and other supplies, and firewood from Roaring Brook to Chimney Pond, and also with the removal of trash and empty propane cylinders.
19. Had cable slings made in Bangor and took to Army National Guard to be used to transport lumber by helicopter this winter.

20. Built racks for front of doubletrack to be loaded with firewood hauled to Chimney Pond.
21. Assisted with plowing and sanding of yard at Millinocket central complex on weekends and also during weekdays when needed.
22. Worked on Center Pond Trail, brushing it out, and getting it ready to haul a new lean-to in to be located approximately 1/2 way between Nesowadnehunk and Little Wassataquoik Lake.
23. Worked designing and lettering signs needed at various locations.
24. Assisted Ranger Bernard Crabtree build propane tote sled to be used on Chimney Pond winter trail.
25. Worked with 112th airlifting bog bridge materials to various locations and firewood to Chimney Pond.
26. Assisted Park Mechanic with vehicle oil changes.
27. Checked ice fishermen on Matagamon and Webster Lakes.
28. Picked up used truck rims from area trucking firms and cut them to specifications to be used as fireplaces.
29. Hauled 4000' cedar 2" x 6" decking from Matagamon snowsled building to Trout Brook to be used for picnic tables, saw horses, and other projects.
30. Hauled firewood to bunkhouse facilities for winter campers.
31. Hauled pre-cut lean-to from Nesowadnehunk Field to site location about 1 mile east of Center Pond.
32. Attended Warden training classes at Camp Keyes, Augusta.
33. Worked servicing backhoe in Millinocket.
34. Built add-on rack for snowsled '57'.
35. Started cutting out and prefabbing picnic tables at Trout Brook to be used at various campground locations throughout the Park. (35 picnic tables, 40 saw horses)
36. Seeded down the old section of road along the East Branch that had been torn up and relocated, about 1/4 mile in length.
37. Assisted cutting brush along boundary line between MacDonald's and park Headquarters and installing a 7' chainlink fence to help stop the flow of trash on to Park property.
38. Assisted preparing old '52' Cheyenne snowsled to be taken to Augusta for auction.
39. Cut up old road grader from DOT saving the mower-board and blade assembly.
40. Painted truck racks and out on side rails for tie-downs.
41. Put wheels, legs, and a handle on 5kw used generator.
42. Built picture frames for special pictures used at the Park Headquarters.
43. Worked building another set of folding lumber racks located in the pole barn in Millinocket.
44. Sorted lumber in pole barn in Millinocket disposing of material unsuited for use.
45. Shoveled snow off pole barn and gas shed at Trout Brook Farm.
46. Assisted Jensen Bissell repiling logs at Abol Pit.
47. Attended 8 hr. law-enforcement training by Attorney General's office at Millinocket Headquarters.

48. Attended chainsaw training in Millinocket and Abol Field.
49. Assisted welding and repairing the rockrake.
50. Repaired roadway at Dry Brook and also the spur road from South Branch crossing to South Branch (about a mile long). Also installed 2 culverts on the south side of Dry Brook Hill, and covered with 40-6 yd. loads of gravel from the new gravel pit down along the East Branch.
51. Moved trucks, the backhoe and other equipment to various locations throughout the Park.
52. Participated in joint discussions with employees concerning job required tasks and standards.
53. Assisted with coverage of various campgrounds whenever assistance was required due to shortage.
54. Worked installing waterline for the new DOT housing facility located at Abol Field.
55. Unplugged large and small culverts on the Park roads that were jammed with debris that had accumulated during the fall and spring rains.
56. Assisted removing rocks from roadway after grading, and also with some ditching.
57. Serviced, repaired and greased motors, dump body and tailgate on 3 large dump trucks.
58. Assisted in opening roads to Daicey and Kidney Ponds by draining water, filling holes and removing blowdowns.
59. Serviced, maintained and launched boat at Matagamon.
60. Assisted diverting water from roadway using hand shovels.
61. Hauled empty propane cylinders to Millinocket and returned with full ones for staff use.
62. Worked repairing mower-board on tow-behind grader.
63. Installed a septic tank and leach field at the DOT facility at Abol Field according to the specifications established by geologist and Advisory member Roy Farnsworth.
64. Established a 'first-report' culvert inventory on all access roads within the Park.
65. Attended spring staff meeting in Millinocket.
66. Constructed, painted and installed a gate system including attaching steel posts to cement and providing a hinge system. The gate was installed on the Black Brook road at the Webster Lake in T6R10.
67. Installed 3 plastic culverts and 1-10' culvert on Black Brook road near the Perimeter road.
68. Repaired the leaking water system at Togue Pond Visitor Center.
69. Assisted inventory of fire equipment, especially determining usability of fire hose.
70. Seeded down and mulched around the DOT facility at Abol Field.
71. Checked Park boundary near Togue Pond concerning public access of Upper Togue Pond.
72. Dug and installed 2 holes for toilets at South Branch for 1000 gal vaults. One old 500 gal. vault was removed.
73. Routinely checked 8 different areas where beaver were causing water backup into roadway,, including plugging 2-6' culverts at Wadleigh Brook. (This created a hazardous problem unplugging.)

74. Closed Thistle road removing one 3' culvert and lowering blowdowns to road surface.
75. Routinely patrolled Matagamon Lake checking sites and fishermen and checking camper registration.
76. Assisted cleaning sites in Fowler Pond area.
77. Posted streams and ponds with proper worded posters provided by Fish and Wildlife for each particular watershed.
78. Removed two pack loads of used camping equipment from the Long Pond area.
79. Constructed culvert protectors to keep beaver from plugging culverts.
80. Worked constructing porch for bunkhouse at Roaring Brook Campground.
81. Assisted with cleaning toilets and removing litter from beach area at Togue Pond.
82. Patrolled Daicey and Kidney Pond areas as well as other areas throughout the Park.
83. Assisted pump-out of toilets in various campgrounds and escorted waste truck to new dumping station near Black Brook Road.
84. Continued maintenance of Perimeter road system by draining water, ditching, and removing rocks.
85. Started blazing SFMA boundary east side from Trout Brook to Boody Brook.
86. Worked grading Dwelley Pond road with rock rake.
87. Worked with volunteers in project assignments and instruction.
88. Dug out and cleaned out spring between McCarthy Field and Dwelley gravel pit.
89. Painted interior of toilet at Martin Camp.
90. Constructed watertight frame for cover to boat at Matagamon Lake.
91. Leveled and braced lean-to at Little East Branch at the northwest end of Matagamon Lake.
92. Boxed in eaves of Ranger camp and porch at Trout Brook Farm.
93. Built two trail registration boxes installed at trailhead.
94. Assisted DOT with repair work on road system near Bear Brook on the Roaring Brook road after the road had been washed out because of culvert blockage and heavy rains from Hurricane Bertha.
95. Welded repairs to tow-behind grader used by north DOT personnel.
96. Dug holes for toilet vault at Scout area at Abol Pond and hauled in two loads of gravel to spread around toilets.
97. Removed old bark from Abol pit firewood storage area and hauled it to Rum Mountain wood disposal area with dump truck.
98. Stripped loam from DOT driveway at Abol Field and replaced with gravel surface.
99. Hauled 10 loads of firewood to Daicey Pond.
100. Removed loam from new Slide Dam parking lot and hauled to Foster Field. Placed large rocks at appropriate places and filled parking area in with gravel.
101. Patrolled areas with afternoon and evening law enforcement coverage.
102. Shingled wood shed at Matagamon gate.
103. Located, marked, and cleaned culverts from Horse Mt. to River drivers' grave near Foster Field.
104. Worked on porch at Nesowadnehunk Field renovating camp wall and building and shingling new porch.

105. Cut up, split and hauled firewood for winter and seasonal use by Rangers.
106. Installed gas refrigerator at McCarthy Field to be used for either administrative or volunteer use.
107. Assisted grading and leveling pad area for cement for base of garage for DOT facility at Abol Field.
108. Serviced and maintained backhoe.
109. Hauled some loam to Kidney Pond to cover site of old kitchen area.
110. Assisted Robert Howes with new solar system set up to pump water.
111. Seeded down area at Patten repeater where gravel had been hauled in and leveled for driveway and surrounding area that had been graded and leveled.
112. Shingled roof of garage at McCarthy Field.
113. Hauled several loads of gravel from gravel pit on East Branch to South Branch site for new bunkhouse and graded that area.
114. Removed 2 old toilet vaults at South Branch, covered holes with gravel and graded.
115. Started hauling gravel and leveling on south end of Black Brook road.
116. Built storm windows for porch on Trout Brook Ranger camp.
117. Rebuilt double snowsled trailer reinforcing all underframe with heavier steel.
118. Assisted transporting surplus material from Millinocket to Augusta to be auctioned off.
119. Hauled siding material to Nesowadnehunk for Ranger's camp.
120. Assisted MDOT bridge inspection inside the Park.
121. Hauled over 300 yds of stone from Dwelley Pit to septic area on Black Brook road to cover wet areas of the access road.
122. Hauled over 350 yds of gravel and 100 yds of stone on Black Brook road covering wet holes and installing culverts when required.
123. Assisted splitting and piling firewood at Millinocket garage.
124. Serviced seasonal facilities and prepared them for winter.
125. Hauled diesel fuel on portable tank to equipment location.
126. Cleared and remarked boundary on north side of old Perimeter road at Phoenix to Slaughter Brook.
127. Removed the old Telos gate and closed access road from Perimeter road to north branch Trout Brook.
128. Hauled and spread hay at old Slaughter pit covering the area after it had been leveled and graded.
129. Placed rocks at mouth of old Foster dump to prevent traffic access to the area after it had been seeded down and replanted to pine.
130. Placed plastic and 60 bales hay around campground facility at Trout Brook to be used by volunteers during the hunting season.
131. Burned old lumber and brush pile at Nesowadnehunk Field wood disposal area.
132. Constructed picnic shelters in group area of Trout Brook Farm.
133. Hauled gravel to new pole barn site at Kidney Pond.
134. Started finishing interior of new bunkhouse at South Branch Ponds, putting up partitions and installing insulated roof and covering interior with wood paneling.

135. Constructed pulley system to pull cable and weight through culverts filled by beaver sticks, unplugging them.
136. Removed one old rock fireplace at Kidney Pond day-use area.
137. Resurfaced some parts of Perimeter road near Katahdin Stream and Foster Field.
138. Hauled load of rock to Roaring Brook to site #3 for bank restoration to replace rotted logs at vehicle parking area.
139. Replaced steel frame on 4 x 4 one ton truck under the dump body.
140. Started remarking boundary on old Perimeter road near Camp Phoenix east to corner post, then south to corner post south of Nesowadnehunk Lake, then west across Nesowadnehunk Stream to corner post.
141. Assisted on trail work on new Wadleigh Mountain trail near Wadleigh bog.
142. Assisted cutting up and piling on trailer the firewood for Chimney Pond located at Togue Pond.
143. Hauled in boat dock on Matagamon Lake and prepared boat and motor for winter storage.
144. Installed chimney and cap in new bunkhouse at South Branch Ponds.
145. Picked up two new snowsleds at Fort Kent.
146. Fixed corrugated steel tailgates on three vehicles to be used to load and carry snowsleds.
147. Assisted plowing snow and sanding at the Millinocket office and garage complex.
148. Cleared trees from an area of the conference room building proposal at Millinocket Headquarters.
149. Built 20 trail registration boxes for Park trailheads.
150. Built box for totesled.
151. Inventoried supplies and requisitioned.
152. Picked up lumber in Lincoln and hauled to Kidney Pond to be used on new pole barn.

Maintenance on lean-to's and cabins was limited for season 1996 due to a public building repair policy. However maintenance did occur on non-public use buildings. The include:

ABOL CAMPGROUND - (CRI Brian Johnston, ACR David Chase)

1. Cutting up, clearing blowdowns from the campground.
2. Painted interior of porch of Ranger station.
3. Serviced chainsaws, mowers, week trimmer.
4. Routine water systems maintenance.
5. Clearing of Perimeter road of blowdowns.
6. Cleaning public facilities - day use areas Abol Beach, Togue Pond and Foster Field.
7. Rebuilt site #18 - cribbed, rocked, graveled, leveled.
8. Recribbed #11, #22, #23 and #24 with rocks and leveled.
9. Planted trees (26) around camper sites #7, #19 and #21.
10. Painted office and kitchen ceilings, stairway and stairs.
11. Hauled numerous loads of camper firewood from Abol Pit to campground.

12. Hauled ashes and waste wood to Nes. Field and Roaring Brook for burning.
13. Built five new tables and stained.
14. Minor repairs to #3 and #5 lean-to's.
15. Stained Campground Ranger camp.
16. Installed new seats in all toilets - Abol Campground.
17. Replaced rotten siding on crew camp - stained camp.
18. Stained garage and shop - painted work bench.
19. Painted steel gate at Abol Fuel Depot.
20. Puttied windows in upstairs Ranger camp.
21. Finished putting floor down and painted upstairs of Campground Ranger camp.
22. Cut out five new picnic tables.
23. Hauled empty propane cylinders to Millinocket.
24. Hauled 600 gals. water for toilet pump out at Togue Pond, Abol, Katahdin Stream and Foster Field.
25. Stained woodshed and steps.
26. Urethaned walls and water sealed floors of campground toilets.
27. Stained picnic shelter.
28. Installed new numbers on lean-to's #5 through #12.
29. Stained lean-to's #5, #7 and #11.
30. Assisted Park Carpenter with construction of Abol Scout Area toilet.

KATAHDIN STREAM - (CRI Bruce White, CA Troy Dow)

1. Opening and closing of campground and water systems.
2. Cut blowdowns around campground, along Perimeter Road and Grassy Pond trail and Hunt Trail.
3. Put day use toilet back on cement tank and anchored.
4. Installed nine feminine napkin disposal units at Katahdin Stream, Foster Field and Abol.
5. Set up Hiker Bulletin and Register station.
6. Repaired erosion hole downstream from dam (twice).
7. Replaced sixteen legs on picnic shelters.
8. Set up River Driver Cross and Sign.
9. Replaced shingles on #9 lean-to roof.
10. Planted trees near site #17.
11. Built ramps for truck.
12. Stained signs, picnic tables and toilets at Foster Field painted inside of toilets.
13. Stripped and resingled roof of Assistant Ranger camp.
14. Assisted honey wagon with toilet pump outs.
15. Cleaned up debris from old DOT camp demolition, leveled, loamed and seeded.
16. Built five picnic tables and stained.
17. Demolition of two old outhouses.
18. Repaired walkway on dam (temporary).
19. Built fire ring for K-100 ceremonies.

11. Routine service/maintenance of 18 solar battery system, troubleshooting regulators and batteries, and replacing when needed.
12. Routine covering of winter parties and transportation of volunteers to and from Chimney Pond.
13. Hauling of wood, propane, requisitions from Roaring Brook to Chimney Pond; boxes of old shingles and debris and empty propane cylinders were hauled from Chimney Pond to Roaring Brook.
14. Routine winter trail work shoveling, packing, grooming of trails, particularly from Roaring Brook to Chimney Pond.
15. Marking and painting Park boundary line, southwest corner and game preserve lines (T2R9, T3,R9).
16. Shoveled snow off buildings.
17. Routine patrolling of Park and checking of skiers, snowsledders and winter campers.
18. Burned Rum landfill wood debris.
19. Prepared materials, firewood, bog bridging materials, requisitions to be flown to Chimney Pond, Sandy Stream Pond and Russell Pond from Caribou Pit and Abol Bridge pit.
20. Assisted Public Safety Radio Technician Lance Cook with installation backhoeing and filling of trenches for new lightning and grounding protection system at the Patten repeater site.
21. Assisted with plowing and shoveling around Headquarters complex.
22. Routine firing of stoves at Mt. View camp, garage furnace and duty officer coverage, checking Headquarters and garage.
23. Hauled bog bridging materials from Roaring Brook parking lot to Sandy Stream area and Blacksmith Brook area.
24. Repaired "hinge" on one-ton dump truck.
25. Hauled 12 bags peat moss and 12 bags of bark from Patten to Abol Bridge to Chimney Pond for summer composting of toilet waste.
26. Assisted with sorting cedar materials at Abol Bridge pit.
27. Replaced doorknob assembly on bunkhouse at Roaring Brook.
28. Installed pump controller on Mt. View water system.
29. Hauled 1 1/2 cords wood from Caribou Pit to Chimney Pond.
30. Hauled lean-to materials from junction of Telos-Harrington Lake roads.
31. Hauled cedar bridging materials from Abol Pit to Sandy Stream.
32. Hauled disabled sleds out for repairs to Millinocket garage.
33. Moved equipment - trucks, trailers, tractors as needed.
34. Wired up and automated DC water pump at Mt. View camp.
35. Cleaned out shower house, hauled debris materials at Togue Pond crew camp.
36. Hauled supplies to Daicey Pond and Kidney Pond.
37. Removed toolbox, sanded and painted, reinstalled, painted bumper on truck.
38. Moved generator out for repairs.
39. Flew to Wassataquoik Lake, carried in new antenna, cable, to troubleshoot radio problem; flew new batteries in via Forestry helicopter.

40. Covered campers and campgrounds at Nesowadnehunk, Abol, Katahdin Stream and Roaring Brook.
41. Seasonal startup and closing of water systems at Visitor Center and Administrative camp at Togue Pond.
42. Road repairs and maintenance.
43. Refrigerator repairs and maintenance at Pine Cover camp and Hidden camp.
44. Relocated batteries from Nes. CRI camp to cellar of Park Ranger camp.
45. Installed chain locking device on dumpster at Nesowadnehunk.
46. Skimmed off brush too big for bushhog at Patten repeater site with backhoe.
47. Installed safety shut-off and inverter at Nes. Park Ranger camp.
48. Assisted with shingling job on workshop at Kidney Pond.
49. Loaded and hauled culverts, barricades, signs and materials from Katahdin Stream DOT site to Abol Field DOT site.
50. Burned old DOT storage sled and outhouse at Katahdin Stream.
51. Assisted Park Carpenter with movable bunkroom wall and paneling up of windows at Visitor Center.
52. Assisted with loading and moving building skids from Kidney Pond to Abol Scout area.
53. Assisted with building and installation of lumber racks for polebarn.
54. Rebuilt totesleds - strengthened several pairs of skis.
55. Moved GMC dump truck and lowbed to Bangor for repairs.
56. Assisted with construction of two pickup metal racks.
57. Assisted with installation of new fence between Headquarters and MacDonalds.
58. Assisted with cutting up of old road machine.
59. Set and installed seasonal mud gate posts at Rum Mt., foot of Abol Hill, Foster Field and McManus Brook.
60. Hauled load of sawn cedar from Parker's Lumber Co.
61. Assisted in resetting culverts along Perimeter Road.
62. Hauled gravel to various washouts along Perimeter Road. This was a major maintenance project.
63. Moved gas trailer from Togue to Abol Pit.
64. Relocated five dumpsters from Abol Field to Abol Pit.
65. Rebuilt dumpster arms and installed on one-ton 4x4 plow truck.
66. Trussed "main frame" of Eager Beaver lowbed with 3"x3/16" bar.
67. Removed and replaced outhouse road at Slide Dam day use area.
68. Filled fuel trailer with diesel at Abol Pit and hauled to Nes. Pit (twice) for DOT use.
69. Erected temporary trail signs - new Center Mt. Trailhead and removed old signs at West Gate area.
70. Built new roof on outhouse at Ledge Falls picnic area.
71. Transported refrigerator to Burlington, delivered refrigerator to McCarthy Field.
72. Hauled portable gravel screen from Winn to Dwelly Pit.
73. Hauled 24 loads loam from new Marston Trail parking lot to Foster Field, hauled gravel from Nes. Pit to parking lot.
74. Cleaned and cleared burnt Mt. trail.

75. Replaced window glass with plexi glass, painted wood strips (Burnt Fire Tower) - replaced old strips on fire tower.
76. Hauled old shingles from McCarthy Field to transfer site at Nesowadnehunk Field.
77. Filled camper wood storage areas at Nesowadnehunk, Katahdin Stream, Abol and Roaring Brook.
78. Hauled rock screenings from Dwelly Pit to septic disposal site near the Black Brook Road.
79. Hauled gravel and spread on Black Brook Road.
80. Hauled gravel from Nes. Pit to Kidney Pond woodshed area.
81. Disposed of Kidney Pond day use fireplace.
82. Loaded and hauled large rocks to Roaring Brook site #3.
83. Transported farm tractor from Nes. Field to Millinocket.
84. Sawed up and piled three cords wood at Caribou Pit for Chimney Pond.
85. Cleaned up wood debris near Pine Cove camp and Abol Field DOT sites.
86. Transported backhoe to Millinocket garage for seasonal storage.

DAICEY POND - (CRI's Gabriel and Marcia Williamson)

1. Opened up camps and facilities by sweeping, cleaning, washing, washing windows and setting out picnic tables.
2. Washed and scraped paint in three cabins.
3. Stained cabin #9 and painted trim.
4. Cleared are trails and campground of blowdowns, brush and other debris.
5. Cut up, split and hauled firewood for camper use.
6. Stained posts and signposts and lettered signs.
7. Cleaned out and sorted supplies in toolshed, painting shelves and workbench.
8. Installed new fishing regulation posters in appropriate locations.
9. Repaired steps and screen doors on cabins #5 and #9.
10. Replaced rotted 1/2 round logs on AT shelter.
11. Installed sanitary napkin holders in all toilets.
12. Trimmed brush along trails in campground.
13. Serviced lawnmower and mowed lawns.
14. Trimmed around firepits according to specifications.
15. Controlled insect pests such as ants.
16. Hauled and spread gravel to canoe landing area.
17. Repaired and painted trim on two outhouses.
18. Stained and painted trim on two outhouses.
19. Cleaned up after parties leaving cabins and before next party arrives.
20. Had deer antlers rehung in library.
21. Assisted hauling and spreading gravel in upper and lower parking areas.
22. Removed and replaced library steps.
23. Installed new mattresses in cabins 8 and 10.
24. Dismantled outhouses near 4 and 5 and hauled to wood disposal area at Nesowadnehunk Field
25. Constructed new foundations under pit toilets 4 and 5.

26. Assisted Park Carpenter with construction of new outhouses.
27. Repaired hand tools by sharpening or replacing handles.
28. Stained library and painted trim.
29. Constructed new steps on 1, 5, 7, and 8.
30. Painted trim on windows and building of toolshed.
31. Checked and changed propane on cabins as needed.
32. Assisted with waste removal from toilet vaults.
33. Inventoried all buildings and requisitioned as needed.
34. Painted and coded tools for Daicey Pond.
35. Hauled recyclables and empty propane cylinders to Millinocket and brought back full tanks and a wood stove and installed in library.
36. Routinely made wood debris and shingle disposal runs to Nesowadnehunk as needed.
37. Hauled blocking to and jacked up cabin #9, leveling, replacing sill, and putting cement pads under sills.
38. Packed up all freezable materials and transported to Millinocket.
39. Prepared winter rental cabins and assured wood supply.
40. Tightened thwarts on all canoes and stored for winter.
41. Drained all water systems and prepared with no-toxic anti-freeze.
42. Swept out and cleaned truck and armoralled.

KIDNEY POND - (CRI's Jodi Tollett-Browning, Thomas Edes)

1. Opened up campground, washing and cleaning cabins.
2. Set out canoes, paddles and life preservers.
3. Repairing torn shingles and broken hand rails.
4. Made small repairs to cabin doors, windows and cupboards.
5. Replaced gate near cabin #5.
6. Installed new flagpole base with concrete and uprights.
7. Painted and installed new flagpole.
8. Put new floors in cabins 10 and 11.
9. Put new doors and screen doors in Wassus cabin.
10. Removed collapsed portion of polebarn.
11. Replaced and built new steps for shop.
12. Sealed leaks around chimneys in three cabins.
13. Removed blowdowns, brush and other debris from area trails and cabin areas.
14. Assisted with remodeling combination office and Ranger facility by partitioning walls to make two living quarters and office.
15. Installed boat tie downs on canoe dock.
16. Removed trees from site for new multi-purpose storage building.
17. Built new propane platforms for cabins 6 and 7.
18. Built new railing for steps in garage.
19. Completed inventory and reorganizing of block building.
20. Installed new current fishing regulations posters at area ponds.
21. Repaired windows and painted when required.

22. Serviced power equipment and mowed grass.
23. Cleaned cabins as parties left and before others entered; occasionally turning mattresses.
24. Hauled gravel and leveled at outhouse near cabins 9 and 10.
25. Tried to plug holes in dining hall ceiling to batproof.
26. Cut up firewood for camper use.
27. Scraped and stained library and volunteer camp; painting library porch and steps.
28. Repaired picnic tables in 8, 9, 10, 11, 6 and 7.
29. Removed ceiling in cabin #7 (bat control).
30. Painted new office steps.
31. Cut brush along Kidney Pond roads.
32. Removed a large portion of old woodshed to be replaced.
33. Shingled garage hauling old shingles to Nesowadnehunk Field.
34. Seeded loam in front of library and mulched with hay.
35. Inventoried cabins and all buildings and requisitioned supplies needed for the next season.
36. Closed cabins and other buildings for the season, removing and hauling freezable materials to Millinocket.
37. Drained water systems and prepared for winter using non-toxic anti-freeze.
38. Prepared winter cabins for use making sure of an adequate wood supply.

1996 BAXTER STATE PARK VOLUNTEER PROGRAM

Volunteer coordinator Wallis Drew compiled the following 1996 volunteer statistics:

A total of 216 volunteers contributed 8,133 1/2 hours toward the resource protection and preservation of Baxter State Park.

Volunteer hours by location and a listing of Park volunteers in 1996 are listed as follows:

Administrative Assistance	302.5 hrs.	Roaring Brook	50 hrs.
Chimney Pond	110	Russell Pond	48
Daicey Pond	714	So. Branch Pd.	51
Katahdin Stream	1355	Togue Pond	412
Kidney Pond	1044	Trail Maintenance	2496
Matagamon Gate	80	Trout Br. Farm	228
McCarty Field	32	Webster lake	671
Nesowadnehunk Field	179	Misc.	351

The following volunteers donated over 20 hours of volunteer service:

Pam Abner	Elizabeth D. Donley
Carl Anderson	Daig Dolan
Bruce Baker	Margaret Donovan

James and Bonnie Borden
Bob Bateman
Todd Bauman
Connie Beal
Jason Beal
Janice Bilodeau
Brad Blaisdell
Susan Bodyke
Don Briggs
Tim Brown
Jodi Browning
Richard Bray
Claudia Burger
Charles S. Burwell

Isabell Carson
Paul Chartier
Christy Clark
Debra Clark
Sara A. Colburn
Stephen L. Crave
Carmen Crowfoot
Meagan Day
Wm. David Dobbs, Jr.
John & Sue Loyd
Gale E. Malesky
Abbott & Nancy Meader
Terri-Ann Miller
Marjorie Mitchell
Brad Morith
Norman, Paula, Kate & Emma Mrozich
George Osborn
Reggie Ouellette
Hollie K. Owen
Joseph Proulx
Lori & Roger Rank
Alan Rees
Emily Riddle
Amanda, Lindsay & Stephen Rowe
Marty Roy
Phillip York
Wallis Drew
Judith Feinstein
Christine Frost
John Gondek

Ed Dwyer
Buddy Eshelman
David Eubanks
Fred Evans
Paul Farrington
Fred Firman
Robert Wm. Footer, Sr.
Ray Fortunato
Diane Freelove
Dave & Dorrie Getchell
Tom Goetz
Loren Goode
Connie Gray
James Hall
Robin S. Haven
Robert Heald
Eric Henrickson
Jeffrey Hollsworth
Wavel Huston
Stephen Jackson
George Kesel
Gary Lakeman
Joseph Maurer
Ron and Meg Logan
Elsa Sanborn
Ralph & Martha Sellers
Wayne Shedd
Erin Stevenson
Gary Stillman
Rowena & Courtney Strout
Jim Thayer, Jim Thayer II
Mike Thurlow
Frank Trautman
Harland Turner
Upward Bound
Volunteers for Peace
Janet Wagner
Alan Watson
Leslie O Mitchell-Watson
Rob Ware
Chaitanya York
Janet Evans
David Flanagan
John Gould
Josh Grant

Wylie Haggerty
John & Betty Howard
Hanna Horigan
Craig Collins
Mary Knowlton
Roberto Dobbs
Dierdre McCormick
Carter Smith
Jessica Turner
Helen Wood

Julia Hoak
Debbie Hafford
Cato Hustus
David Jorgenson, Jr.
Sheri Lates
Mildred Luce
Dale Stephens
John Minot
Scott Robinson
Bob Mario

X PROJECTION OF MAJOR PROJECTS FOR 1997

1. Remove the underground fuel storage tank at Togue Pond.
2. Dismantle the old South Branch Pond bunkhouse.
3. Remove 3 deteriorating lean-to's at Abol Pond Scout area and replace with 4 lean-to's moved from the eroding point of land to the central camping area.
4. Remove and replace the large lean-to at Russell Pond.
5. Landscape the old Roaring Brook dumpsite and reseed.
6. Dismantle the old woodshed and storage shed at Kidney Pond.
7. Install toilets at Nesowadnehunk Field group area, Slide Dam and Togue Pond Beach.
8. Install bog bridges on wettest portion of the Wassataquoik Lake trail near Center Pond.
9. Complete and open for public use, the rerouted portion of the Freeze Out trail from Hudson Brook to the Wadleigh Brook Crossing of the Park road.
10. Construct a lean-to at Hudson Pond.
11. Cover the cement block garage at Kidney Pond with board and batten.
12. Cover the cement block propane storage building at Kidney Pond with board and batten and convert the building into a staff shower facility.
13. Upgrade the Kidney Pond crew camp to house staff on a continual basis. Reshingle the roof and install a new chimney.
14. Finish completion of the new South Branch Pond bunkhouse for public use in 1997.
15. Install new cornerposts of town lines along the perimeter of Baxter State Park.
16. Repaint 10 miles of Park boundary.
17. Blaze and paint the eastern boundary of the SFMA.
18. Resupply by snowmobile the Chimney Pond and Russell Pond campgrounds with propane tanks, requisitions and firewood.

C. SCIENTIFIC FOREST MANAGEMENT AREA

Scientific Forest Management Area



photo by Bill Silliker

1996 ANNUAL REPORT

"Hudson Brook to (Hudson Pond) 1/2 way with saw then on with loppers. Hermit's Rhubarb for dessert here. Yum! Nostalgia! He used to drive-in the Freezeout Trail...It is really hard to think of how he lived, survived and managed to continue: black flies, mosquitoes, snow, rain, dry spells and no music or books. Or, did his more "Simple, basic style of life leave more time for music, books, fishing, sitting on the ledge in the breeze at Hudson Pond - sitting..."

SFMA Volunteer Dave Getchell
Webster Journal entry for June 6, 1996

ISSUES AND ADMINISTRATION

- **SFMA Advisory Committee**

The SFMA Advisors continue to provide support and counsel regarding the vision, management and operations of the SFMA. The 9th annual field tour was held on September 11/12 and the committee observed the Black Brook Service Road, Septic Waste Disposal Area, harvested blocks in compartment 2 and 7, new road construction on the Wadleigh Mountain Road and new trail location to Hudson Pond. The Committee continues to discuss long-term management issues including the interface of harvesting and hiking trails, long-term harvest levels and management priorities and access concerns.



SFMA Advisors at Hudson Pond, 9/13

- **CFI**

Although the specifics of Continuous Forest Inventory (CFI) will be discussed under Forest Operations, it seems appropriate to mention the overall effort here, under administration. CFI is time consuming and expensive, and requires a significant commitment of SFMA resources. After completion of the first phase of our CFI endeavor in late 1996, it is apparent to me that this was money well spent - it will be even more apparent to our successors in management who are able to gain the most insight into forest changes on the SFMA from the use of our CFI data.

- **Law Enforcement**

The steady increase in hunting use of the SFMA has initiated discussions regarding the ability of the Park to provide adequate law enforcement coverage in such a large and popular area. In the spring of 1996, Forest Technician Mac Browning spent one week at the Maine Criminal Justice Academy in Waterville completing a 40-hour course in law enforcement. This coursework provided Mac with a conditional commission and the authority to act in a law enforcement role in the protection of Park resources. Mac's 1996 conditional commission requires that he return to Waterville for 10 weeks in 1997 to complete his law enforcement training. This is a significant application of resources as well as a change in work posture and assignment for Mac. The Park gains a fully commissioned Ranger to assist in law enforcement efforts Park-wide and, in Mac's case, with specific benefit to the SFMA during the high-use hunting season.

- **Webster Lake position**

One person can only do so much, and Mac's time in Law Enforcement will often be time away from forest management activities. Discussion of this likelihood, coupled with a long-term view of SFMA need in forest and recreation management, led to the inclusion of a seasonal summer position into the 1998/99 biennial budget. This Laborer II position would be stationed at Webster Lake to assist in SFMA forest and recreation management activities. Details will be worked out as the 1998 work program is developed.

- **Shift in Area of Operations**

In a minor way, 1996 marked the end of an era in SFMA operations as most harvesting and road construction efforts will shift in 1997 to areas south of Webster Stream. We now have an area of over 7,000 acres where harvesting will have a period of hiatus for the next 10 years or so. Compartments 4, 5, 9 and 11 comprise an identifiable area on which almost all the acres have been carefully considered and many treated with some level of harvesting. As demonstrated by the rough summation of the CFI data, there are many acres stocked with a variety of trees with good potential for strong growth in the coming decades in a forest mosaic that will only improve aesthetically in the years to come.

As operations continue south of Webster Stream, we face a forest markedly different in composition than was found north of the stream. Forest fires earlier in this

century have left a significant percentage of this forest in “burn types” of poplar, birch and maple. In general, these fire-origin stands offer two things: moderate to low potential for revenue from improvement operations and tremendous potential as the showcase forests of the SFMA in 50 to 75 years. Getting from where we are to where we would like to be will be both challenging and interesting.

“Only got bit once today, started chewing on me at 10:00 am and finished at 6:00 pm...”

SFMA Volunteer Tom Goetz

Webster Journal entry for June 20, 1996



Resource Manager Bissell speaks to group from Champion International Corp.

FOREST EDUCATION

- **UMO Silviculture Class Tour**

The October 5-6 visit to the SFMA by Dr. Robert Seymour's Silviculture class is becoming an annual event. This year Dr. Seymour (also a charter SFMA Advisor) spent two days in the Park, using the first day to hike into the Boody Brook Natural Area and the second day to visit the operational portion of the SFMA. As always, Seymour's group bring an inquisitive mind and attentive ear to the SFMA.

- **Champion International Tour**

On November 4, a group of Champion International Foresters made the trip to the SFMA to view our harvested stands. Of particular interest to Champion was our work in and around riparian areas as landowners state-wide grapple with issues of appropriate resource management in sensitive areas.

- **Clear Cut Referendum**

Without a doubt, the premier forest education issue of 1996 was the so called "Ban Clear-cut" referendum. The debate surrounding this referendum question dominated forestry and public circles of discussion right up the November balloting. The Park participated in this debate by providing information and professional forestry judgment, based on the SFMA experience, regarding the forest management facets of the referendum issue. I participated in a number of discussions in this capacity:

- 4/30: Moderate panel discussion of appropriate use of forest land with representatives from Boise Cascade, Natural Resources Council of Maine and Northwoods Park as part of Maine Environmental Educators Conference, Old Town, Maine.
- 4/11: Present SFMA approach to forest management in light of the referendum, Lincoln Chamber of Commerce, Lincoln, Maine.
- 4/22: Participate as panelist in discussion of referendum issues as part of the Maine Chapter of the Society of American Foresters spring meeting, Waterville, Maine.
- 8/9: Participate as panelist in discussion of referendum issues as part of the Greenville Forest Heritage Days, Greenville, Maine.
- 9/25: Participate as panelist in discussion of referendum issues as part of WABI TV broadcast, Bangor, Maine.
- 10/23: Participate as panelist in discussion of referendum issues as part of a Falmouth Conservation Trust members meeting (televised locally), Falmouth, Maine.

The lessons of this experience are clear. Forest management and the policy that guide it are as complex as the natural, social, political and economic systems that all play a role in our relationship with our forest resources. It's complicated stuff and we have no process in place to easily and clearly contemplate these difficult questions. Until we develop a process we have faith in and can stand behind, the resolution of forest management issues will continue to be a lengthy and torturous experience.

The subsequent failure of any of the choices on the referendum question (2A, 2B, or 2C) to attain a clear majority, pushes the question ahead, but with a clearer focus, to a November 97 up or down vote on 2B. This ensures that the debate will rekindle later in 1997.

As scheduled by the Park Naturalist, I provided an evening program at Kidney Pond on 8/27.

"Went to Halfway Brook Picnic Shelter to close in (gable) end of roof with cedar. Got one end done - trouble finding the place but eventually got there. Lots of bugs - looks good - back at 6:00 pm. - dinner - beautiful night. Stars and planets so bright - they cast a glow on the lake..."

SFMA Volunteer Rick Bray

Webster Journal entry for July 16, 1996

FOREST OPERATIONS

- **CFI Plots**

As highlighted under "Issues and Administration, 1996 initiated the installation of Continuous Forest Inventory (CFI) plots on the SFMA. CFI plots are monumented sites, distributed over the forest landscape, where specific information is gathered regarding stand composition, structure, health and a number of other discretionary variables. The measurement of forest stand variables is nothing new on the SFMA - in any given year, hundreds of plot measurements are taken to provide short-term insight to operational questions; the distinguishing feature of CFI plots is that they are designed to be remeasured repeatedly over a long period of time. The careful remeasurement of the same places in the forest is the only way to reasonably determine changes in the overall structure and composition of the forest. The comparison of these changes against our goals for sustainability, biodiversity will help us determine, over time, if our management activities need correction and if so, how.

The installation of the plots is by far the most expensive component of CFI, primarily as a result of the time and effort in monumenting the plot center, perimeter and the individual trees within the plot. Each plot will represent about 200 acres of land so it is important the management activities on each plot are unbiased in every way. The best way to ensure this is to make the plots indistinct and unnoticeable. CFI plots on the SFMA would be classed as semi-hidden. Walking through the woods you might notice you were in a plot, but probably only if you knew what to look for.

The job of plot installation is fairly straightforward and as such, it was put out to bid early in the year accompanied by the plot design and specifications and some indication of the location and walking distance to each plot. Because time is the primary component of cost, only 35 plots in compartments 4, 5, 9 and 11 north of Webster Stream where management activities have led to a more or less complete road network. The bid was awarded to the Dave Warren Company of Ellsworth, Maine, and a crew of 2-3 completed

the work in about one week in October. In total, the SFMA will require about 125 CFI plots. Additional plots will be installed as road access makes the cost affordable. Remeasurement of the plots will be scheduled on 10 year intervals. A summary of the information gathered from the plots is included as an appendix item.



Valmet Forwarder in Compartment 11, Block 78

- **Forwarder/chainsaw system**

From 1991 to 1993 the harvesting systems in the SFMA changed dramatically from two cable skidders in 1991 to one single-grip processor in 1993. The move to cut-to-length harvesting was a good one for the forest stands of the SFMA, but the single-grip processors in use on the SFMA are specifically designed to work with small trees, preferably softwood. Most of our acres and stands fit this system perfectly, but not all our acres and stands can be tended by the Rottne. Some SFMA acres hold older mixedwood

stands with significant components of large mature hardwoods or old burn types with large poplar/aspen overstories, and some stands of typically small spruce and fir also have a component of white pine far too large for the single-grips to work with. In addition, almost every year Maine weather, provides winds strong enough to blow some trees down and invite some level of salvage. Each of these stand types would require a markedly different silvicultural approach and none fits very well with the smaller single-grip systems.

In response, I have been working with SFMA Contractor Eldon Pelletier to combine a person running a chainsaw with a forwarder to move the cut-to-length pieces roadside. 1996 saw the initiation of that system in the SFMA utilizing a sawyer and an 8-ton Valmet forwarder. Due to the variability of stands and prescriptions likely to be applied with this system the crew was paid on a per-diem basis. This allowed a clear comparison of the effects of different stands and silvicultural prescriptions on productivity, product and value. Clearly, in some prescriptions our activities with this harvesting system would most accurately be termed a "treatment" (with attached cost) rather than a "harvest" (with implied revenue). However, after an operational year of work, it became apparent that the system is extremely versatile and profitable overall to whatever level is desired - as determined by the amount of acres worked in different prescriptions. By viewing the system as requiring a break-even or slight profitability, we were able to apply some solid silviculture to stands that would have been difficult to work in any other manner.

The system fits well with the challenge of "chasing windthrow" and produced a volume of windthrow salvage that would most likely have been lost with other systems. In addition, almost all our typical single-grip harvests include some light component of overwood removal. The forwarder/chainsaw provides an excellent way to work through the completed single-grip stand and capture all the overwood marking without incurring stand or yarding trail damage. Concerns still exist, primarily with the overall volume removed by the system, which is significant and should be considered as a part of the whole. Overall, the system provides a tremendous flexibility in the application of silviculture to our more difficult stands and in combination with some softwood harvest can maintain some profitability. Based on these considerations, it seems this system has some real benefits and should be evaluated again in 1997.

- ***Pelletier Brothers, Inc.***

1996/97 marks the second operating season with Pelletier Brothers, Inc. providing the operational expertise in harvesting and road construction activities on the SFMA. The Pelletier's high standards for all work undertaken are demonstrated by the crews day-in and day-out regardless of the job at hand. All of our planning and layout would be to no avail without skilled personnel to make it happen. Many of the crew members currently working on the Pelletier team have been working on the SFMA for 8 or 9 years. Breakdowns, black flies, downpours and blizzards can make harvesting and road building in the SFMA a frustrating endeavor. Despite these challenges, the crew brings a sunny disposition to the woods with them every day. Good attitudes seem to be becoming a rare

thing in today's world and the crew has our greatest appreciation for their positive and professional approach.

- **1996/97 Harvesting Crew**
Eldon Pelletier, President
Rudy Pelletier, Vice-President
Gerald Pelletier, Secretary-Treasurer

Rottne Cut-to-Length Harvester

Alston Crandall

Mike Irish

Road Construction

Brian Boutilier

Forwarder/Chain saw

Reno Sylvain

Sylvain Lemieux

Rottne Forwarder

Dean Schlaunwhite

Brian Boutilier

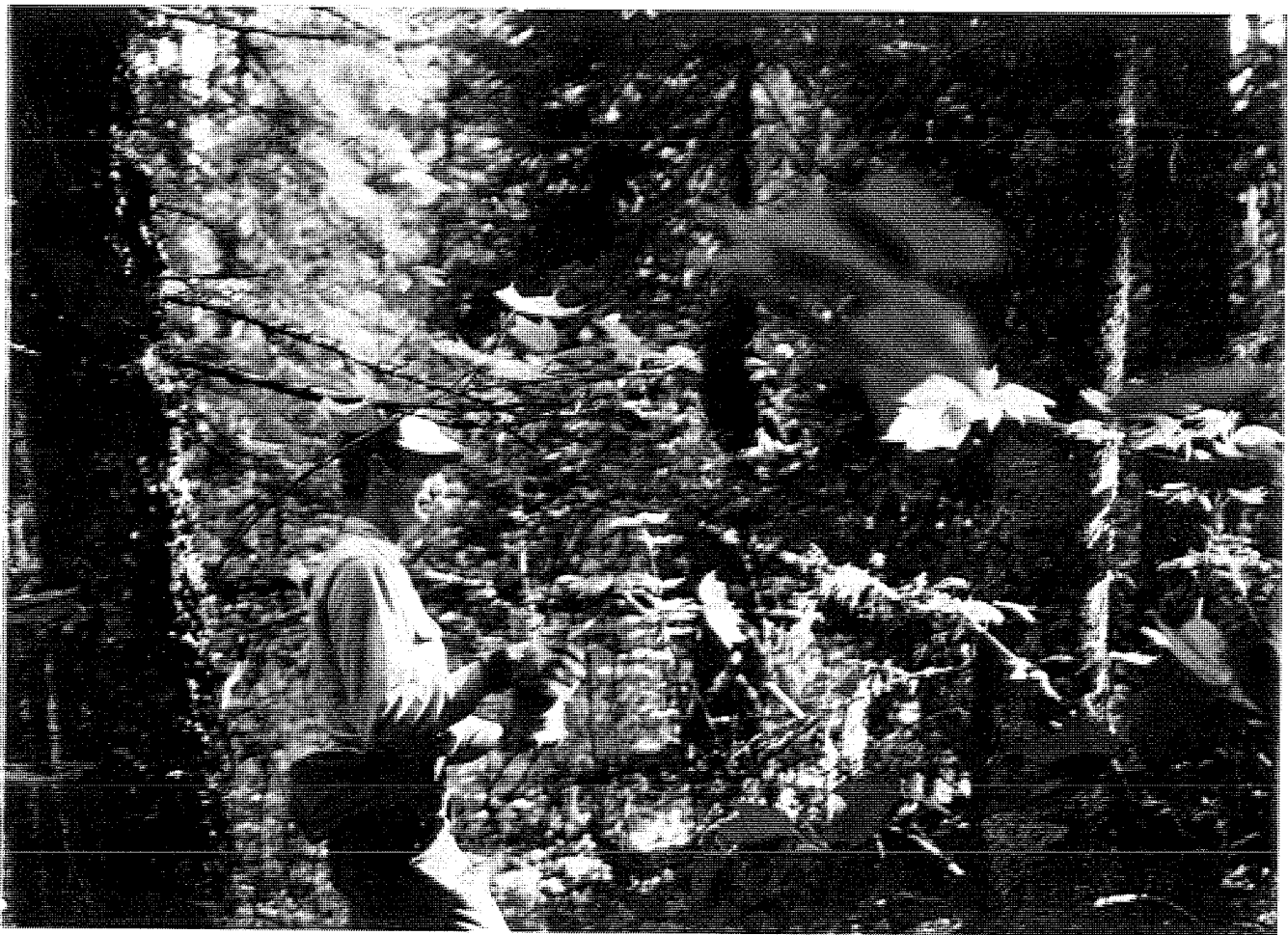
Trucking

Rusty Springer

Wayne Pelletier

Lee Powers

Steve Gilman



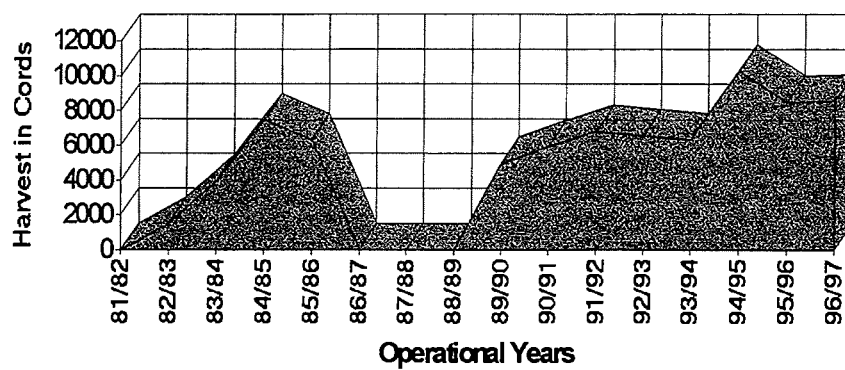
Consulting Forester John Mills marking a stand

- **Markets**

Markets for the 1996/97 season were moderately good markets, with the latter half of the season showing significantly more market strength than early in the year, particularly in spruce/fir dimension products. Hardwood pulp markets, both mixed and poplar, were weaker overall than 95/96 - as our percentage of this type of product will increase in the next few years, weakening in this market is of concern to us. Hardwood logs remained reasonable, with good value available in the higher quality log - always a struggle for us on our marginal hardwood sites. Towards the end of the season competition for hardwood and pine logs increased - something I don't think will fade with the 97/98 season. Minor markets for cedar were moderate, but the limited outlets in northern Maine remains a concern. The SFMA began to send processed cedar to a small mill to be "slabbed" at 4" thickness for use as bog bridge material on trails throughout Baxter State Park. This activity offers significant savings in time and effort for trail crew personnel and, when combined with the cedar shipped for processing in firewood bundles, constitutes a surprising amount of the SFMA's total production of cedar (132.95 Mlbs utilized for lumber, 550.92 Mlbs utilized for hardwood firewood, cedar bundlewood and slabwood).

Our product mixes for 96/97 display an important change from 95/96 with the percentage of hardwood pulpwood increasing from 20% by weight in 95/96 to 28% in 96/97. Correspondingly, spruce/fir studded dropped from 71% to 64%. This is the result of operations reaching areas of previous forest fires around the turn of the century and the mid to late 1930's. The SFMA has a significant acreage (5,000 acres) in this type so the percentage of poplar harvested is likely to go up before it goes down. This poses a challenge as the revenue from poplar, in any form, is low relative to revenue from softwood products. More importantly, most of our poplar stands have developed naturally as pioneer growth and now shelter strong stands of developing spruce and fir - the showcase stands of 2050. Careful culture of these fire origin stands must progress at a steady rate over the next 10-20 years to accentuate the natural process of development in these stands. Many of the stands in Compartment 9 that we harvested in 1989-91 were very stands of a similar origin but about 40-60 years ahead in their development (fire origin circa 1860).

SFMA Harvest Level History



Park Naturalist Jean Hoekwater at Harrison's Camp on Hudson Pond

- **Volunteer work**

Seven sets of volunteers contributed to resource management on Webster Lake and the SFMA in 1996. Special thanks are in order to Dave Getchell, Tom Goetz, Ed Dwyer and John and Bill Gould for the long, hard hours invested in trail clearing work on the Wadleigh Brook Trail. Some trail work remains for 1997, along with the assembly of another Frank Trautmann lean-to. This will be the third lean-to provided to the SFMA from the home-grown spruce and expertise of Park volunteer and AT Maintainer Frank Trautmann. In addition to the lean-to and trail work, we would like to construct another picnic shelter of the same design as the Halfway Brook Shelter on the Brayley Ridge Road. After these projects are completed, there are no further structural changes or additions anticipated for the SFMA and most of the required work will shift to trail and structure maintenance and forest management projects.

1996 Webster Lake Volunteers:

Dorrie and Dave Getchell	5/24 - 6/15
Tom Goetz	6/17 - 6/30
John Gould, Bill Gould, Ed Dwyer	8/07 - 8/13
Matt and Rick Bray	8/15 - 8/19
Bob and Roberta Heald	8/02 - 8/09
Phil and Nyoka York	8/10 - 8/14
Tom Goetz	8/19 - 9/08
Mike Thurlow	9/27 - 10/02

Work projects: maintenance on SFMA crew camps, picnic shelter and north SFMA entrance gate; trail clearing, trail maintenance, bagging trash @ Hudson, cabin maintenance, Webster Lake site maintenance, brush saw 1/2 septic waste disposal area.

- **Road Construction**

1996 marked a significant shift in location of operations as almost all our construction activity moved south of Webster Stream onto the Wadleigh Mountain system. For the past 9 years, our intent has been to build enough forest management road to stay at least one year ahead of our harvest schedule. In 1995 we tested the strength of that intent by reducing the footage of new road construction in lieu of renovation and construction footage on the Black Brook Service Road. In 1996 we started to recover our footage, but found our efforts hampered by the necessity of applying our finite resources to renovating portions of the existing Wadleigh Mountain and GNP's "Useless" Road - our primary access to the southern portion of the SFMA. We constructed 21,477 feet of new all weather forest management road plus 6,500 feet of winter road for a total of 27,947 feet of road construction. In addition to this new road, significant work was done in renovations of existing road including 3,655 feet of partially roughed-out Wadleigh Mountain Road (left from 1986), and extensive resurfacing and ditching of the Wadleigh Mountain Road from the Park line to the junction of the Fish Hawk Road. In

addition, about 200 feet of the Coffeelos Road at Beaver Pond hill was surfaced with ripped ledge and 13 culverts were installed on GNP's Useless road in the 2 mile section between the Park line and the Telos Dam Road - this section will require resurfacing in 1997. Specific projects completed in 1996 are listed below:

Project	Length (feet):
Wadleigh Mountain Rd ext.	10,050
Hornbeam Road	2,800
Calypso Road	2,727
Coyote Road	2,740
Wadleigh Bog Road	3,130
Fish Hawk Road ext (winter)	6,500
Renovation: Wadleigh Mountain Rd	3,655
Resurfacing: Waleigh Mountain. Rd	12,000
Resurfacing: Coffeelos Road	200



Hornbeam Road

As in past years, coated seed was applied in May of 1996 to the ditchline of all new construction from 1995. About 200 red pine were planted at various locations along new and previous construction.

A short, steep section of the Coffeelos access road known as Beaver Pond Hill located on T6. R.11 (Bureau of Parks and Lands) about 1/4 mile from the north SFMA entrance was resurfaced with ripped ledge. The road will be strongly crowned in this location to reduce siltation from runoff down the slope. Plans for 1997 include installation of perforated heavy pipe (open surface crossdrains) to further reduce point source pollution in these areas.

- **Black Brook Service Road**

Baxter State Park crews completed surfacing and drainage work on the Black Brook Service Road and the Septic Waste Disposal Area during the summer of 1996. Brush piles formed during the clearing of the septic waste disposal area (one on the disposal site and one at a borrow site near the former Telos Gate) were burned during the fall of 1996. Both burns went very well with very complete combustion of the dry piles and no control problems. The septic waste disposal area was brush sawed in the fall and seeded with coated seed. This process of brush sawing and seeding will have to be repeated every year or two until herbaceous growth is fully established on the site.

"Met Jensen, headed up Wadleigh Mountain Road, went south on Wadleigh Brook Trail to Blunder Brook and followed Jensen as he flagged rest of trail. Met Lester who was coming up from south. Went out onto (Wadleigh) bog and made it to open water. Very interesting formation. Lester's locusts are speeding the trail rapidly toward completion. Long day. Quit once we got out of the woods..."

**SFMA Volunteer Tom Goetz
Webster Journal entry for August 26, 1996**

MANAGEMENT

- **GIS/block records**

As of this writing, there are 290 delineated blocks, or operational polygons on the SFMA. These areas represent the level of separation or scale at which our management is applied. Each area is monumented in the field in such a way that a forester working in 2020 would be able to make a reasonable determination of the boundaries of the polygon. The number of working polygons is increasing steadily as we gather data and extend our management and the final number will likely exceed 1000. Stand composition, features, structure and operational history are recorded for each block within a graphic database. Evaluation of this data, from a forest-wide perspective, provides us with a useful and flexible foundation for decision making and judgment regarding the success and efficacy of our management. Gathering this data - laying out, monumenting and cruising all the land area accessed during a year is an integral part of what we do, it's also a lot of work - and we are constantly struggling with the evaluating the value of more data versus the time required to gather and maintain it.

- **SFMA eastern boundary**

The SFMA eastern administrative boundary has been a concern for some time now. This is the interior subdivision line that extends from the NE corner of T6.,R10 south across Webster Stream to a corner point near Hinckley Brook. From there, the line demarcates the portion of T6.,R9. purchased in 1954 and designated as SFMA traveling east to a point just north and east of the mouth of Frost Pond, then south to intersect the SFMA south boundary at Trout Brook. Records indicated that little if any work had been done in maintaining this line since it's initial establishment after Percival Baxter purchased the land in 1954. While hunting in the area in November, Chief Ranger Chris Drew came upon clear monumentation and flagged a large portion of the line for later painting. Later in the winter, field rangers under Barry MacArthur located the remaining portions of the line. The line is scheduled for blazing and painting in the summer of 97 or winter of 98, depending on access.

"Long day working on the relocated Freezeout Trail. Cut new trail to a point 1/4 mile beyond turn "away from" the brook. Shortly after leaving the "Freezeout Road" a beautiful black bear ambled across the trail. Appeared to be in good health, fine coat, full bodied. Long day, hard work. Tiring but rewarding..."

SFMA Volunteer Ed Dwyer
Webster Journal entry for July 11, 1996

RECREATION

- **Wadleigh Brook Trail**

The 1996 effort expended on the clearing, cleaning and finishing of this 10 mile section of new trail was remarkable. The Wadleigh Brook Trail (WBT) leaves Webster Stream at the mouth of Hudson Brook and travels south and south east past Hudson Pond, across the Wadleigh Mountain Road, past Blunder and Wadleigh Bog and along Wadleigh Stream to the Park Tote Road about 1 mile west of Trout Brook Crossing. As it turned out, the combined efforts of SFMA personnel, BSP volunteers, and Trail Crew were nearly sufficient to complete the trail establishment in one season. As it turns out, some finishing work remains on about 2-3 miles of trail and a short section near Hudson Pond requires relocation during the spring of 1997. When completed in the summer of 1997, this trail will provide a nice, dry hike through a variety of forest types and terrain touching a number of natural features representative of the SFMA. When trail work is completed, the Park Director will determine dates for the opening of the WBT and the closing of the Webster Lake Trail. The assembly of a lean-to near Hudson Pond and a picnic shelter at the trail/Wadleigh Mountain Road junction (similar to the Half-Way Brook Shelter) are scheduled activities for 1997.

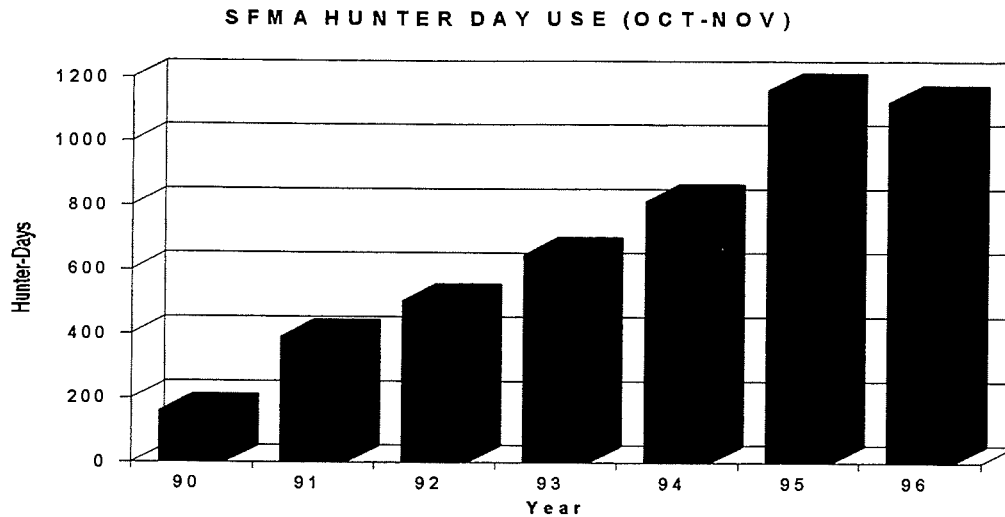


Trail Crew Supr. Lester Kenway & Crew on the Wadleigh Brook Trail
(far left is BSP volunteer Frank Trautmann)

In addition to trail work, volunteers and Park staff bagged trash and debris from the old Harrison Camp at Hudson Pond and piled the cabin debris for burning. The cabin timbers and other assorted wood debris was burned in the fall and a considerable load of trash was piled for removal by snowsled in the winter.

- **Hunting Use**

At long last it appears that hunting use in the SFMA may be leveling off. 1996 marks the first year since we began requiring self-registration in 1990 that recorded use declined from the previous year. Weather was relatively normal for the period, so the figures should not be viewed as biased. It would be premature not to expect an increase next year, but the next five years may begin to reveal a more static figure regarding hunter use on the SFMA. As in previous years, a number of side roads were blocked to access prior to hunting season to reduce maintenance costs and to provide some areas for those who wish to walk and gain some relative solitude. Many positive comments were received on this management.



"Early this morning I watched a cow and bull moose swim across the lake. They came ashore about 200 yards east of camp...Stood there for a few minutes, then into the woods they went. The foliage is nearly peaked with brilliant red, orange and yellow colors weaved throughout the canopy of the forests around the lake - a beautiful site!"

SFMA Volunteer Ed Dwyer

Webster Journal entry for July 11, 1996

OTHER ACTIVITIES

• Coffeelos Camps

Coffeelos Crew Camps served admirably as a working camp housing 8-10 of Pelletier Forest Products, Inc., crew members at various periods. Some important improvements were made to the camps including the addition of toilet and shower facilities to each of the 16x20 small log camps. This addition will allow the removal through bid sale or demolition of the old stick-built bathhouse - a significant aesthetic improvement. The replacement of the 10 kilowatt propane generator that powers the camps was scheduled for 1996. Park Ranger II Bob Howes suggested we investigate the installation of a solar system instead for roughly the same cost. After considerable thought and discussion we proceeded with the solar system. Extensive work by Ranger Howes and contracted generator specialist Kent Ladd resulted in the completed installation of a system providing the solar generation of electricity to run the camp facilities. The system is based on 10 panels and a battery array and provides sufficient power to operate the water pump and all camp lighting as well as small appliances operated from camp outlets. The system is backed up by the original propane generator, but requirements of generator use have proven to be minimal - the generator required a

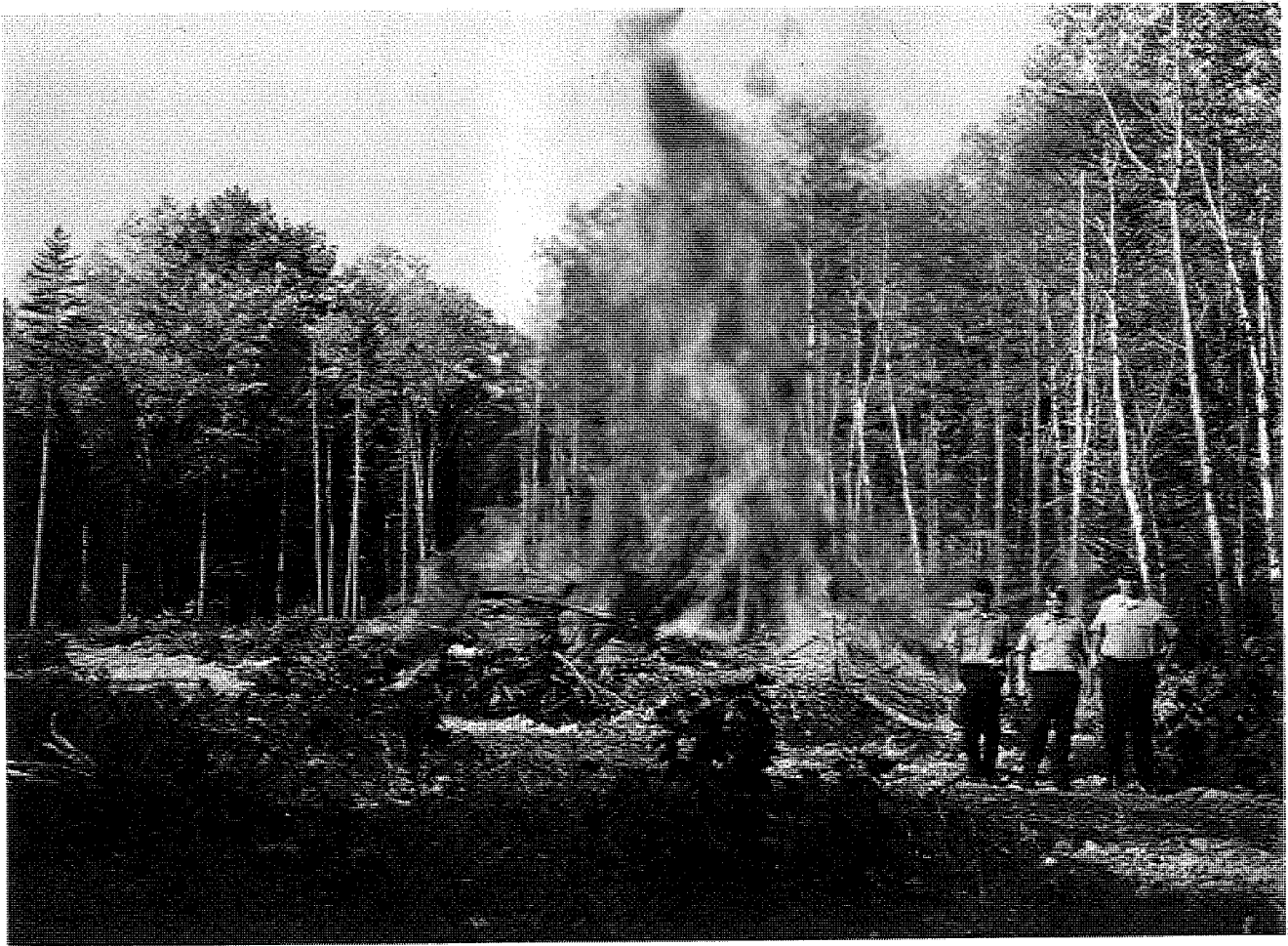
two week removal from site in mid-January for repair and the solar system provided adequate power throughout the period for camp operation. In addition to reducing propane use, the solar system provides on-demand power without noise and requires minimal maintenance.

- **Maine Forest Bio-diversity Project (MFBP)**

In continuing the Park's commitment to this project, I attended a 2-day meeting at 12/12-13 in Sugarloaf. As a part of the work being accomplished by the MFBP, an eco-reserves assessment team visited the SFMA on July 9th and 10th for survey work in Wadleigh Bog.

- **Job Shadow**

On 10/8, Resource Manager Bissell and Forest Technician Mac Browning were "job shadowed" by four Conservation Law Enforcement students from Lincoln. The students assisted in the activities scheduled for the day.



Job Shadow students at septic waste disposal area debris burning.

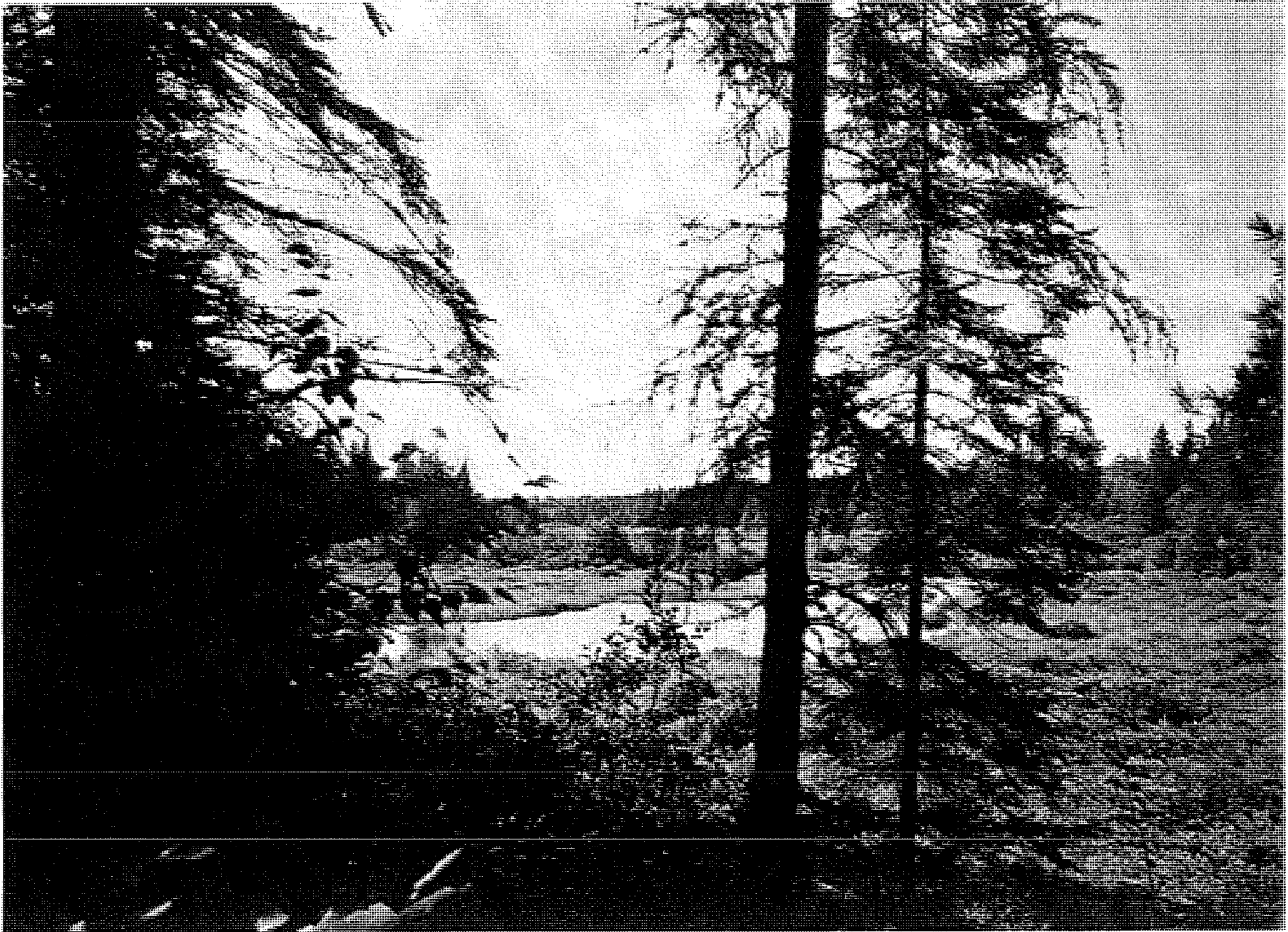
- **Shifting mosaic**

As a stakeholder in the outcomes of this long-term project spearheaded by John Hagan of Manumet Observatory, I attended two meetings: 6/25 in Augusta and 12/10 in Orono

- **Austin Cary Lot**

In May of 1996, the Authority confirmed their intent to proceed with active management of this out-parcel. Toward this end, the Park contracted with Barrie Brusila and Mitch Kihn of Mid-Maine Forestry to conduct a forest inventory of the parcel and develop up-to-date stand maps and stand tables. This work was completed by mid-summer and plans are in progress to evaluate this data and develop proposals for addition action.

Severe winter weather also resulted in a minor washout of the causeway that connects the east side and west sides of the parcel. Lastly, after many years of discussion and truncated efforts, the Baxter State Park Authority, MSAD 75 and the Town of Harpswell finalized an agreement allowing the construction of a small parking lot in an old borrow pit on the ACL. The construction commenced early in the summer and was completed to design specifications by August. Hopefully, this lot will adequately, safely and appropriately serve the users of the MSAD 75 facilities and the Austin Cary Lot.



Wadleigh Bog from the Wadleigh Bog Trail

"I'm Back! God is getting really tired of hearing me talk about Webster. I jumped in the lake first thing and guess what? ANGELS STARTED SINGING!..."

SFMA Volunteer Tom Goetz
Webster Journal entry for August 19, 1996

Respectfully submitted:

Jensen Bissell
Resource Manager



Black Bear cub, Brayley Ridge Road

Forest Management Area
Product Harvest Summary, FY 97

PRODUCT	VOLUME IN M-LBS	%GRP %TOT	GROSS REVENUE (\$)	%GRP %TOT	SERVICE COSTS (\$)	%GRP %TOT	NET REVENUE (\$)	%GRP %TOT
Block Sawlogs	21.735	1%	608.21	1%	315.63	1%	292.58	1%
Block Sawlogs	1,096.528	69%	40,287.91	82%	21,860.81	77%	18,427.10	87%
Block/Fir Sawlogs	0.000	0%	0.00	0%	0.00	0%	0.00	0%
Block Sawlogs	460.925	29%	8,430.32	17%	6,061.16	21%	2,369.16	11%
TOTAL SFTWD LOGS	1,579.188	4%	49,326.44	5%	28,237.60	4%	21,088.84	8%
Block/Fir Studwood	25,374.226		718,417.32		486,814.57		231,602.75	
TOTAL STUDWOOD	25,374.226	64%	718,417.32	77%	486,814.57	73%	231,602.75	88%
Block Pulpwood	325.360	48%	3,578.96	48%	3,300.87	38%	278.09	-22%
Block Pulpwood	348.020	52%	3,828.22	52%	5,343.81	62%	-1,515.59	122%
TOTAL SFTWD PULPWOOD	673.380	2%	7,407.18	1%	8,644.68	1%	1,237.50	0%
TOTAL SFTWD PRODUCTS	27,626.794	69%	775,150.94	83%	523,696.85	79%	251,454.09	95%
Blockwood Sawlogs	831.370	75%	20,846.13	72%	14,327.26	79%	6,518.87	60%
Block Sawlogs	141.464	13%	1,839.03	6%	1,990.12	11%	-151.09	-1%
Block Veneer	74.221	7%	5,149.41	18%	1,176.73	6%	3,972.68	36%
Block Veneer	54.840	5%	1,233.26	4%	654.66	4%	578.60	5%
TOTAL HRDWD LOGS	1,101.895	3%	29,067.83	3%	18,148.77	3%	10,919.06	4%
Block Pulpwood	4,517.120	40%	54,676.98	44%	46,300.48	38%	8,376.50	6%
Block Hardwood Pulpwood	6,663.920	60%	69,911.42	56%	76,889.12	62%	-6,977.70	-5%
TOTAL HRDWD PULPWOOD	11,181.040	28%	124,588.40	13%	123,189.60	19%	1,398.80	1%
TOTAL HRDWD PRODUCTS	12,282.935	31%	153,656.23	17%	141,338.37	21%	12,317.86	5%
TOTAL ALL GROUPS	39,909.729		\$928,807.17		\$665,035.22		\$263,771.95	
VENUE PER M-LBS			\$23.27		\$16.66		\$6.61	

te: Service Costs include \$106,100 in per diem costs for Forwarder/chain saw crew
 Volumes do not include 550.925 Mlbs firewood and 132.95 Mlbs of lumber processed for in-house use.

BLOCK HARVEST SUMMARY 1996

BLOCK HARVEST SUMMARY 1996																						
	ACRES	CEDAR LOGS	HEMLOCK LOGS	PINE LOGS	SPR/FIR STUDWOOD	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	
01	56	15.825			504.652							60.82		70.000								
10	32				150.616		12.872		2.690		7.700	173.060	131.752		315.202	163.488	66%	34%	478.690	99.371	3.15	
11	22				576.012	11.262		0.600			6.270	274.820	293.340	28.000	603.030	587.274	51%	49%	1190.304	251.1	11.64	
13	37				720.680		12.872				12.530	730.580	49.008		792.118	733.552	52%	48%	1525.670	321.4	8.59	
10	36	4.900		56.622	676.546			0.420	2.960	2.170	3.570	168.820			177.940	738.068	19%	81%	916.008	199.6	5.61	
22	22			54.060	1081.376			0.520			7.230	44.700		20.000	72.450	1135.436	6%	94%	1207.886	266.8	12.13	
28	64	10.550		6.547	1388.028		31.590	17.310	8.990	4.440	134.730	1861.630	64.400	30.000	2121.500	1436.715	60%	40%	3558.215	743.6	11.55	
38	35	29.275		22.592	1755.084		22.782					138.958			138.958	1829.733	7%	93%	1968.691	434.4	12.27	
39	38	51.555		54.859	910.560		22.782	1.04			27.730	72.060			100.830	1039.756	9%	91%	1140.586	251.2	6.66	
40	24	158.135		147.499	2137.524		30.376	2.02			40.490	155.422			197.932	2473.534	7%	93%	2671.466	589.3	24.75	
42	33	39.655		53.896	652.652						3.350	13.400			16.750	746.203	2%	98%	762.953	169.2	5.08	
44	55			172.120							4.750				4.750	172.120	3%	97%	176.870	39.2	0.71	
50	33	11.630		96.982	1548.504			0.08			4.210	53.600			57.890	1657.116	3%	97%	1715.006	379.8	11.46	
24	75				892.624		15.795	15.61			84.260	257.008		30.000	386.878	908.419	30%	70%	1295.297	279.2	3.72	
25	54	10.550			1112.760			5.75			34.980	530.120			570.850	1123.310	34%	66%	1694.160	363.8	6.73	
28	57	15.825			1921.908			21.52	6.400		94.510	235.192			357.622	1937.733	16%	84%	2295.355	502.1	8.85	
14	65	103.825		10.913	1243.406						8.260	85.168			93.428	1358.144	6%	94%	1451.572	320.5	4.93	
01	67		21.735		305.640	85.240		2.22			65.000	175.940			243.160	412.615	37%	63%	655.775	140.3	2.11	
069	14				588.230						51.200	26.144			77.344	588.230	12%	88%	665.574	146.2	10.73	
078	26				1023.480										0.000	1023.480	0%	100%	1023.480	227.4	8.86	
088	56				747.824			2.35	12.080	66.750	9.160	262.716	1111.910	10.000	1474.966	747.824	66%	34%	2222.790	461.2	8.26	
089	34			13.210	1210.336	32.710		1.46	17.610	65.800	16.430	221.200	1683.670		2006.170	1256.256	61%	39%	3262.426	680.4	20.09	
095	40				767.920	14.990	18.108	1.12			15.250	61.740		10.000	88.110	801.018	10%	90%	889.128	195.6	4.90	
100	28	19.600			406.780		15.795	0.49	0.960		0.421	154.584			156.455	442.175	26%	74%	598.630	129.6	4.67	
T.PRO.		455.500	21.735	689.301	21818.490	144.202	182.972	72.510	51.690	139.160	632.031	5696.862	3334.080	128.000	TOT.VOL.				33366.533			
TOTAL		1%	0%	2%	65%	0%	1%	0%	0%	0%	2%	17%	10%	0%	TOT. HWD/SOFTWOOD		10054.333 23312.200		TOT.CORDS 7191.4			
																HWD SOFT		30% 70% AVERAGE/BLOCK		312.67	7.19	
W	38	122.550		296.588	1723.794	72.238	142.388			0.950	51.670	741.172	1183.040	147.000	2123.832	2357.558			4481.390	948.7	24.96	
TOTAL		3%	0%	7%	38%	2%	3%	0%	0%	0%	1%	17%	26%	3%	47%	53%						
L				87.015	1327.290	131.580		1.72	3.140	1.600	143.910	165.066			315.436	1545.885			1861.321	406.6		
T.PRO.		578.050	21.735	1072.904	24869.574	348.020	325.360	74.230	54.830	141.710	827.611	6603.100	4517.120	275.000	TOT.VOL.				39709.244			
DCK ACRES		1000.78														HWD SOFT				TOT.CORDS 8546.6		
TAL ACRES		1038.78														TOT. HWD/SOFTWOOD		12493.601 27215.643		CDS/ACRE 9.41		
																BY %		31% 69%				

BAXTER STATE PARK
STATEMENT OF REVENUE AND EXPENDITURES
FISCAL YEAR ENDING JUNE 30, 1996

BALANCE FORWARD JULY 1, 1995

\$183,165.95

REVENUE

PARK OPERATIONS

Recreational Use Fees	\$565,949.15
Transfer Fees	7,767.00
Entrance Fees	92,450.00
Miscellaneous Services	25,069.00
Sale of Maps, Books etc.	20,324.45
Sale of Forest Products	139,788.60
Foreign Exchange Differential	(36.74)
Duplicate Fees	(7,181.50)
Overpayments Refunded	(5,971.80)

NET REVENUE FROM OPERATIONS 838,158.16

TRUST FUNDS

Boston Safe Deposit and Trust	1,015,000.00
State-Held Trust	80,000.00

NET REVENUE FROM TRUSTS 1,095,000.00

MISCELLANEOUS REVENUE

Interest on Investment	6,713.21
Special Licenses and Leases	83.00
Sale of Equipment	3,315.00
Miscellaneous Income	(28.00)

MISCELLANEOUS REVENUE 10,083.21

TOTAL REVENUE ALL SOURCES 1,943,241.37

Adjustment to Balance Forward 4,794.00

TOTAL REVENUE AVAILABLE

\$1,948,035.37

EXPENDITURES

PERSONAL SERVICES

Salaries, permanent	544,729.68
Salaries, seasonal	261,522.11
Overtime/Differential/Retro	46,904.53
Retirement Contribution	165,557.59
Other Benefits	149,668.97

TOTAL PERSONAL SERVICES 1,168,382.88

ALL OTHER

Contractual Services	234,816.29
Park Operations - All Groups	394,131.20
Sta-Cap Charges	11,302.10

TOTAL ALL OTHER 640,249.59

CAPITAL

Buildings	59,410.55
Equipment	98,559.81
Purchase	0.00

TOTAL CAPITAL 157,970.36

TOTAL EXPENDITURES

\$1,966,602.83

BALANCE FORWARD JUNE 30, 1995

\$164,598.49

D. INFORMATION/EDUCATION PROGRAM, 1996

Baxter State Park
D. Information/Education



That even the relentless, dripping, pouring, cascading,
smothering rain is pure -
That a solitary butterfly moves the winds of the world -
That the time-worn stars bind us, One -
That a lonely Old mountain is holy -
That is all you need know of the Meaning of Life.

"Baxter Park Musings"
Andy Marchand, 1996 Alpine Steward

illustration: Pamela Redick

1996 Annual Report -- Information/Education

PUBLIC PROGRAMS

In 1996, the Naturalist accommodated as many program requests from the public as schedule and duties allowed. The Park continues to offer this educational resource, at no cost to the inviting institution, via the Naturalist as well as regular offerings by the Park Director, Chief Ranger and Resource Manager in their respective areas of expertise. Besides the excellent public relations opportunity this affords Baxter State Park, it gives staff statewide exposure to public opinions and concerns regarding park policy and operations, all of which benefits us as we work to protect the Park for future generations.

The Naturalist spoke with the following groups in 1996:

- Sherman Cub Scouts
- University of Maine Wildlife Dept.(noon brownbag seminar)
- Unity Career Fair
- Benedicta Elementary
- Unity-Methods/Materials for Environmental Education Class
- Howland Middle School-Park Orientation
- Sherman Eastern Stars
- East Millinocket Cub Scouts
- Millinocket Middle School- 2 day Science Camp- Folklore of ME Wildflowers
- Patten 3-5th grade
- Houlton Potato Harvest Camp-Bird Watching
- Houghton College (from. NY State)-Park Ecology
- California University (from Pennsylvania)-Park orientation and issues
- Millinocket Brownie Scouts
- Island Falls Sr. Citizens

While the listing above is certain to omit some engagements, it gives a general overview of the programs offered by the Naturalist over the last months. Topics requested range from hiking safety for local scout groups, to topics such as ethnobotany or alpine ecology on Katahdin for high school and college students, to resource and visitor management techniques for aspiring park managers.

Other activities included work with Katahdin High School students. Instructor Dave Wilkins asked for assistance in preparing a team for the Envirothon, specifically for a test on identifying skulls. After making sure the team understood use of a scientific key, the BSP Naturalist employed her small skull collection for a warm-up exercise. Then she arranged for them to meet with Skip Basso, curator of the Natural History Museum at College of the Atlantic in Bar Harbor. The team spent a day on the campus with the Naturalist and were given free access to a large collection of skulls and specimens from which to learn.

BSP Naturalist Jean Hoekwater was also invited this year to serve as a instructor for Maine's first "Becoming an Outdoor Woman", held at Bryant Pond in western Maine on September 13-15th. The pilot effort to bring this program to Maine is under the direction of Marilyn Tourtelotte with the organizational support from Maine I.F. & W. The program consists of a workshop format on various subjects designed to impart outdoor knowledge and skills to women in a supportive, relaxed environment. Jean was asked to offer a 3 hour workshop on "Beginning Backpacking, Hiking" and Camping as well as an evening program on "Baxter State Park's Natural Resources". The conference was enthusiastically received with the 75 available slots filled 11/2 months in advance and a lengthy waiting list. Plans for next year include at least 2 weekend conferences to meet the growing interest.

Jean also coordinated a series of eight evening programs for our summer visitors. This series of educational and entertaining programs would not be possible without the generosity of several park staff, park volunteers and park advisory members who faithfully contribute their time each year. Long-time visitors and first time campers alike always seem eager to learn more about the resources and day-to-day operations of BSP. This year, thanks to the help of BSP friend and Millinocket resident, Fred Eaton, Donn Fendler agreed to be part of the series. His evening talk on his experiences as depicted in the book Lost on a Mountain in Maine, drew a large crowd of adults and children to the shores of Daicey Pond for the evening. It was an inspiring evening for everyone attending, made all the better by the cooperating weather and beautiful sunset. We also offered seven Saturday morning nature programs for children, organized and led by Michelle Lee, 1996 Summer Naturalist Asst.. Topics ranged from map and compass to the "Web of Life" to hiking safety. For a complete list of our 1996 evening and children's programs please see the Appendix for this section.

TOGUE POND VISITOR CENTER AND VISITOR SERVICES

The third season of the Visitor Center was busy and productive, with almost 15,400 people stopping by for information, a weather report or a park map. The sale total for maps and guides was \$6,129, with the one dollar day hiking map being the most popular item for sale. Numbers rose sharply in late June, to 222 visitors on a Saturday. Most days in August consisted of non-stop exchange between the Visitor Center staff and the public, with numbers averaging over 180 people per eight-hour shift. The peak day for the fall season at this facility was Saturday, September 21, with 226 adults and 18 children stopping in.

Nancy Moxley applied for and was hired as a Clerk II for the Visitor Center, beginning the season in late May. She was a knowledgeable, cheerful presence throughout the season. In May, a wildlife photo display was installed, featuring photos by Bill Silliker. Accompanying this display will be specially developed handout materials on the ethics of responsible wildlife photography in places such as Baxter. In addition to Nancy's services five days per week the Visitor Center was also staffed on various days by Clerk Typist II Jean Howes, and SCA Resource Assistants Michelle Lee (Naturalist Ass't.), Paul Austin and Andy Marchand (Alpine Stewards). Operations and procedures at the Center are established enough at this point that a new SCA worker with some first-hand knowledge of Park trails and campgrounds can comfortably fill-in at the Visitor Center with a minimum of confusion or difficulty. This is important in helping us achieve our goal of making the Visitor Center available as much as possible for Park visitors.

We also experimented with keeping the Center open later than 3 PM, our regular closing time. In the past, gate attendants have suggested we expand the hours to late afternoon/early evening but with only one shift, the naturalist has chosen to utilize a 7-3 PM slot. The experiment with extended hours supported this choice of schedule, although a steady supply of visitors did stop by after 3. Another experiment we tried this summer was making contact with day-use visitors lined up at the gate on early mornings in August. Most of these people are headed up Katahdin or one of our other peaks so this was an excellent opportunity to relay information prior to their hike in the fragile alpine zone. It required an "early bird" personality on the part of the interpreter but we were lucky to have three such willing SCA workers! They felt they were very well-received and the information was, in many ways, easier to relay tactfully from this location than it was once people were already in the alpine zone. The Park was extremely lucky to have three energetic, creative and motivated SCA Volunteers on the side of the resource this summer!

The automated slide show at Headquarters continued to greet and inform many visitors throughout 1996. Beginning in November, the show was shut-down due to extensive renovations to the Headquarters building.

The newest visitor information service, the Traveler Information Station broadcast general park information continuously through 1996. With each message change the technology becomes a little easier to use and the actual recording takes less time. We have found it most useful during the in-between seasons of April-mid-May and October 15-December 1. Visitors from other areas accustomed to other parks, arrive in our area expecting full camping services. The radio announcement gives them a brief orientation to our seasonal schedule and conditions of access.

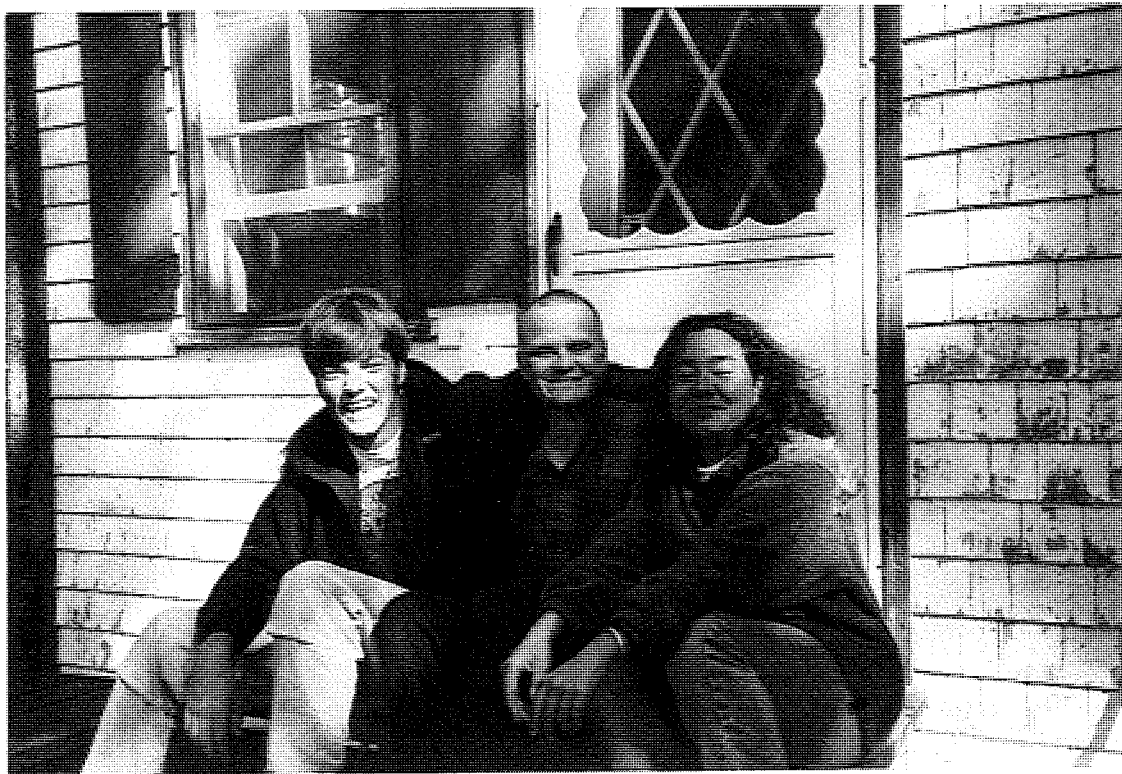
As a note of interest, Togue Pond Gate Attendants kept track of the foreign countries represented by visitors in 1996; this list is in the Appendix in this section. Finally, this is as appropriate a place as any to welcome a new resident of Baxter State Park: Beverly Fern Guay was born in November 18, 1996 to Nancy Moxley (Visitor Center Clerk II), and Stuart Guay (Roaring Brook CRI and Chimney Pond Alpine Ranger)! It should be a great summer in 1997 for the Moxley-Guay family!

ALPINE STEWARDS AND NATURALIST ASSISTANT

As mentioned earlier in the report, in 1996, three SCA Resource Assistants were assigned to work with the BSP Naturalist. Michelle Lee of Athens, Ohio and Ohio University was hired as the summer naturalist assistant. Paul Austin of Issaquah, Washington and University of Michigan and Andy Marchand of Liberty, Missouri and Vermillion Community College were hired as Alpine Stewards on Katahdin. By the end of the season, each SCA Resource Assistant had done a "little of everything" including Alpine Steward patrols on Katahdin, Visitor Center coverage, children's programming, designing educational materials and providing general administrative support around headquarters and in the Park.

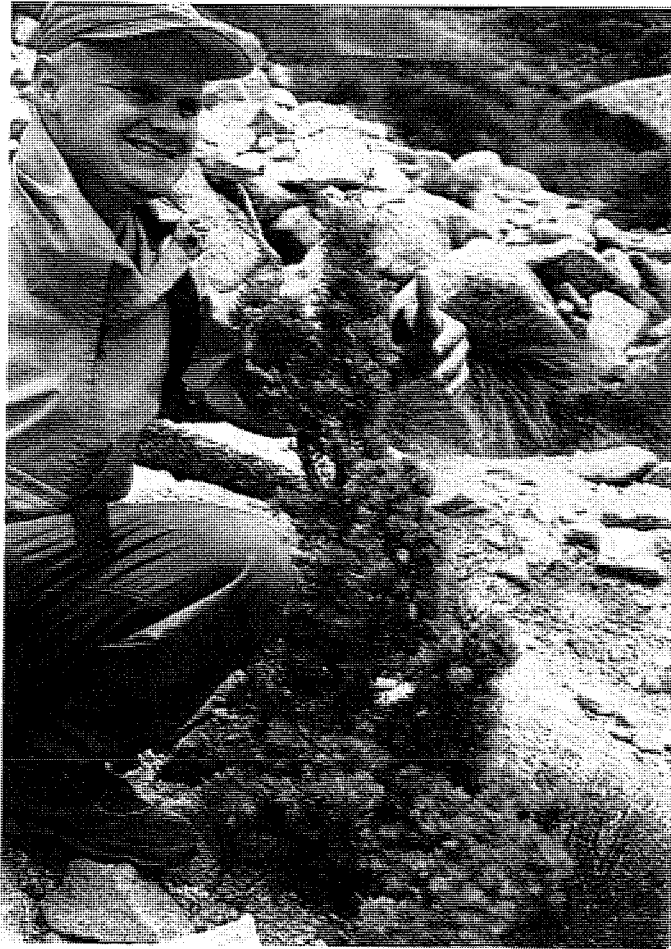
In the midst of the usual flurry of mid-summer activity, Maine Public T.V., Channel 12, requested assistance in covering endangered animal species on Katahdin, as part of a longer program on endangered species in Maine. Janice Rand, of Channel 12, explained that they were specifically interested in three species: the northern bog lemming, the American (or water) pipit and the Katahdin arctic butterfly. Their schedule required production before the spring of 1997 so they scheduled their hike to get footage on Katahdin for mid-August. Unfortunately for their purposes, this late in the season, even the two most "cooperative" of the three species, the butterfly and the pipit, are unlikely to be easily observed. Andy Marchand and Paul Austin, 1996 Katahdin Alpine

Stewards, were guides for the film crew and spent considerable time explaining the habitat and organisms on Katahdin, as well as describing our educational efforts. The end result will be used in an hour-long program in the "Quest" series, aired April 15 and again April 20, 1997, on Maine Public T.V..



(1996 SCA Resource Assistants, l. to r.: Paul Austin, Andy Marchand, Michelle Lee)

The Naturalist Assistant position filled by Michelle Lee and occasionally complemented by the efforts of the two Alpine Stewards, produced several useful products/ programs this year. Her children's programming (mentioned previously) was diverse and contemporary in scope. She took seriously the charge to share Governor Baxter's vision and gift in meaningful ways with our youngest visitors and made it a "trip to remember" for many families. Michelle is also a naturally gifted writer and she shared her skills generously throughout the summer. She crafted wording for many signs and worked with the stewards on an Alpine Zone display for the Hunt Trail trailhead. She also worked with the Naturalist to design and draft a brochure on the Alpine Zone. Michelle returned to Ohio University for her senior year and at the time of this writing, reports she is pursuing options to work for the National Geographic Society or Peace Corps in Africa upon her graduation in June 1997.



(Alpine Steward A. Marchand with S. Turner "summit Tamarack")

Paul Austin and Andy Marchand were also involved in many efforts besides Alpine Steward Work. Paul, due to a painful knee condition, was restricted to lowland duties for several weeks. He resourcefully printed computer-generated signs to replace worn-out signs from places like Chimney Pond Campground. He also worked hard to help with signs needed quickly by administration and pioneered the late shift at the Togue Pond Visitor Center. Paul is a boundless explorer and he often brought back new ideas to try after spending days off in the Bigelows, the Whites, Acadia or Canada. Paul was especially interested in writing a pamphlet on Maine's Black Bear, based on his interest in bears as it was honed during extensive work and recreational experience in Glacier National Park and other areas in the northwest US. Before leaving us, he worked hard to produce a draft of the bear pamphlet as well as a report of concrete suggestions designed to improve the survival and effectiveness of the Alpine Steward program. Paul

returned to his family home in Washington state to explore career options; at the time of this writing, he has begun a degree program in science/environmental education.

Andy Marchand turned in 43 Alpine Steward forms, during a 13 week work period, 30 of which documented patrol days above tree-line on Katahdin! Of the three SCA Resource Assistants, his summer was most focused on education of the hikers above tree-line. His patrols alternated by the week from either Chimney Pond or Abol/Hunt Trails. Except for numerous rainy days early in the season, his schedule left little time for anything other than hiking the roughest piece of real estate in Maine and resting up for the next hike! On rainy days, if Andy was already staying at Chimney for the week, he often took the opportunity to visit with campers and discuss low-impact camping and hiking techniques. Andy brought with him from his previous job, with the Superior National Forest near Minnesota's Boundary Water canoe area, a passionate sense of environmental activism and an earnest desire to learn about and protect the alpine zone on Katahdin. Talking with hundreds of hikers every day can become emotionally draining but Andy never complained. He pitched in on an all-night rescue on the Hunt Trail and even volunteered to accompany the naturalist to Augusta when she had to leave a raccoon with the state health lab (it tested negative for rabies). Andy returned to finish his studies in Minnesota and just recently notified us that he has been hired as a Wilderness Patrol Ranger on Mt. Adams in Washington state for the summer of 1997.

RESEARCH AND MONITORING EFFORTS IN BSP, 1996

Fall Meeting of the Director's Research Committee

The fall meeting of the Director's Research Committee was held on September 11-12 at Trout Brook Farm. CRI Jonathan Milne and his wife, Julie, kindly offered the group use of their facilities, which greatly added to the enjoyment and efficiency of the evening meal and meeting. The following day, DRC member Roy Farnsworth donned his geologist hat and took us to one of his favorite geologic sites in BSP. The site features dramatic exposures of rhyolite columnar jointing. We enjoyed a sunny, leisurely lunch and informative comments from Roy along the cliffs before starting the short hike back to South Branch Pond campground. The fall meeting is always a more leisurely event than our spring meeting and is an ideal time for introducing committee members to the many features, species and locations in the Park which will one day, sooner or later, show up in a research proposal. Many thanks to folks who helped make this meeting work, including Park Director Buzz Caverly, BSP Ranger Loren Goode, and CRI Jonathan Milne, and, of course, Roy Farnsworth!

Youngest Researcher Yet

Early in the summer of 1996, the Park Naturalist received a proposal to study aquatic insect larvae at a few sites in BSP. The interesting thing about this proposal was the age of the researcher: Kris Rolleston was a ninth grader at Foxcroft Academy gathering data for a science fair project in the upcoming school year. Though we have numerous schools conducting various (non-invasive) counts and recording observations throughout the year, it is unusual for a student to approach us individually and conduct their own, independent study. Kris' notes on his survey can be found in the Appendix. He is to be congratulated on both his forethought in contacting us prior to beginning his sampling and his follow-through in sending a summary of his findings. We would feel fortunate indeed to have all our research applicants demonstrate such compliance and accountability to our procedures!

Marten Project

The 1996 summer season started later than usual in terms of the weather. Snow and ice conditions subsided late in the spring, making muddy, soft road conditions the norm for all of June. In addition, extended rainy periods in June-early July exacerbated road problems. The beginning of each field season for research personnel studying marten starts with live-trapping the marten to put fresh radio collars on for a season of radio telemetry. Because of the stresses associated with live trapping, project personnel follow a protocol which requires checking each trap set twice within a 24-hour period. This means that they will need constant and dependable road access once they start operations. Early in the 1996 field season, it became apparent that, due to the road conditions and ongoing research activities, BSP and Marten Project representatives would need to reassess the protocol for road access during the earliest part of the season. The result was a series of meetings and communications between the project coordinator Dan Harrison, the Park Director, Chief Ranger, Park Naturalist and eventually BSP Authority members, Bowater officials, and UM Orono officials and Maine I.F.& W. staff. The chain of events resulted in a re-ordering of the cooperative research agreement for the remainder of 1996, outlining communication contacts and protocol for both the Park and the Project as well as clear conditions to be incorporated for the upcoming season in 1997. As for the issue of road access in the spring of 1997, all parties were in agreement that June 1st was the earliest possible date to be expected with actual conditions possibly necessitating a later date for access. The difficulties this field research season represented for Park staff and Project personnel cannot and should not be easily forgotten. Perhaps the most important lesson was the ongoing one of learning how all of us need to make

constant efforts to communicate with one another, despite the demands of the season and work at hand. Long-term research projects represent unique problems and opportunities within the confines of BSP, demanding diligence and commitment to communication from both the researchers and park staff at all times.

Marten Project members once again took time to participate in our summer evening program series, explaining the goals and methods of their studies on this beautiful and elusive mammal. A highlight of their program is always the search for a hidden radio collar, using telemetry equipment in much the way project personnel track live martens daily. The 1996 program was held at Kidney Pond Campground and the task of finding the collar in the thickets beyond the picnic area proved to be quite a challenge. Even Togue Pond resident Kenyon Howes gave it a try!

Peregrine Reintroduction

In June of 1996, Park Director Caverly and BSP Naturalist Jean Hoekwater met with Andy Weik, Charlie Todd and Alan Hutchinson of Maine I.F. & W. to discuss the issue of re-activating the Horse Mt. hawk site. In the spring of 1996, the Department gained access to immature peregrines of possibly improved genetic stock compared to the ones used in the 1980's reintroduction effort. They presented a rationale and plan for this short-notice proposal and requested the Park Director's prompt consideration on the matter, since the opportunity to obtain the birds was limited. Permission was given and in early July with the help of the Maine Forest Service helicopter pilots, the hawk site was set up for the summer's activities. Later in the summer, the department obtained an additional three birds, which extended the attendants season somewhat. A detailed report is found in the Appendix. Wouldn't it be exciting if a peregrine chose, once again, to establish a nest, year after year, on a cliff in Baxter State Park, thrilling backcountry visitors with their displays?

Spruce Budworm Monitoring

Henry Trial submitted an application on behalf of the Maine Forest Service to undertake an update of this monitoring effort during the summer of 1996. The survey area was hit hard by the budworm epidemic of the late 70's to early 80's and presents quite a challenge for foot travel. In fact, Henry commented that, while the area used to show abundant signs of animal use, since their last survey in 1989, the moose had abandoned any attempt to enter the stands due to blowdowns and thick brush! The Park Director gave MFS crews permission to clear the narrowest possible paths, removing dead and downed wood, to facilitate their hike into permanent plots from their vehicles. Henry also volunteered to remove old

permanent plot markings, using GPS equipment to officially document the location of each plot for future re-visits by the MFS. See the Appendix for a report of 1996 progress on this effort.

Dragonfly Survey

In July, Park Director Caverly received a request from Paul Donahue of Machias, Maine to survey a particular area in BSP for species of Odonata. Once the Director was able to ascertain that Paul would make every attempt to identify specimens in-hand and release the dragonflies without incurring mortality, he gave his approval for the project. In addition to the preliminary list included in the Appendix, Paul Donahue also sent Baxter State Park approximately 20 exceptionally clear color slides of dragonflies found in Baxter, all labeled, for the Park's use as a learning and teaching collection. Paul's species list from 1996, along with species descriptions by another Odonata enthusiast, Paul Michael Brunelle, can be found in the Appendix.

Cosmogenic Isotope Aging

In mid-July, Dr. Tom Davis collected samples of Katahdin granite from Knife Edge, the North Basin and Blueberry Knoll for the purpose of laboratory aging using the latest techniques. The results may clear up long-standing controversies regarding the length of time since the last deglaciation of Katahdin and whether the highest parts of the mountain were covered by an continental icesheet during the last Ice Age. Naturalist Ass't. Michelle Lee accompanied and assisted Tom on his second day. The samples collected have been sent to a special lab in Missouri; the results will not be available for some time but Dr. Davis has assured us he will communicate the findings to us as soon as possible.

1996 Maine Audubon Loon Survey

Each year, the Naturalist and her summer assistant coordinate loon survey efforts in the Park and compile the results. The 1996 Maine Audubon Loon Survey took place from 7-7:30 A.M. on Saturday, July 20. Many of BSP's staff as well as some of our volunteers took part, reporting the number of loons and loon chicks in view in locations park-wide. Following what seems to have become a weather trend in recent years, the day of the Loon Watch dawned foggy and misty, with low visibility impairing the observer's range of view but apparently not dampening their enthusiasm. Nineteen adults and three chicks were tallied on the morning of the loon watch. For details, check the Appendix to this section.

1996 Mountain Patrol

For the past several summer seasons, mountain patrol forms have been filled out by patrolling trail crew members, park volunteers and staff, in our ongoing effort to document the visitor's social experience on Katahdin. This body of data continues to grow and would not be possible to obtain without the guidance and support of BSP Trail Supervisor Lester Kenway, summer SCA Resource Assistants, Chimney Pond CRI Greg Hamer and CA Frank Taylor and other BSP staff and volunteers.

In 1996, trail crew's standardized mountain patrol efforts were supplemented with numerous patrols by Alpine Stewards. The difference between the two types of patrols is that Alpine Stewards focus primarily on public education and contact while the trail crew mountain patrols obtain data visually that aids us in looking at long-term trends on Katahdin. In 1996, the month of June was very rainy, hence no mountain patrols occurred then. Later in the season, mountain patrollers sometimes worked on Mondays with Alpine Stewards, patrolling the "hot spots" on Katahdin. Traditionally, mountain patrollers from Trail Crew had covered weekends on Katahdin, the busiest times. However, in 1996, the Alpine Stewards patrolled on a Friday-Monday schedule and Trail Crew Mountain Patrol patrolled on a Monday-Thursday schedule, allowing all the trail crew SCA to work the same schedule.

Number of completed forms: 23

Number of patrols by month: July- 12

August -5

September - 6

Number of Class I Days (excellent weather): 10

Number of Class II Days: 12

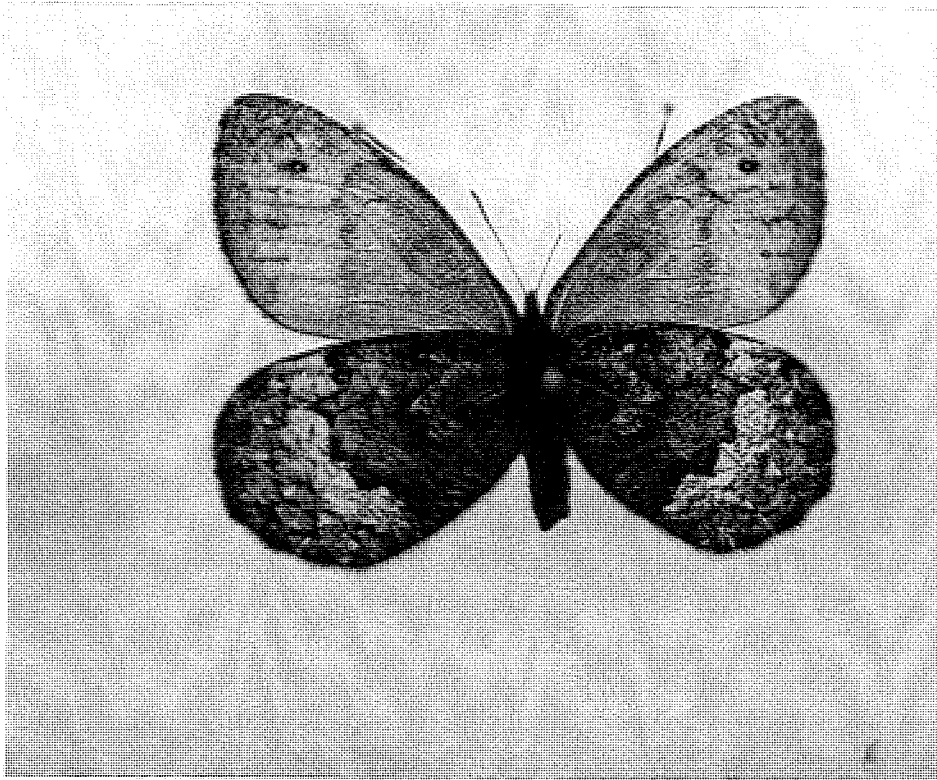
Number of Class III Days: 1

The total number of people met along the trail on one day patrol, leaving from Chimney and returning to Chimney via marked trails, ranged from a low of 5 on a Class II Day with severe thundershowers and hail (July 8) to a maximum of over 400 on a Class I Day (August 12). Average number of people met while on patrol was 78 people. Mountain patrol remains an effective public contact tool and data collecting effort for park management as we continue to deal with the challenges of public use of a fragile alpine zone. See the Appendix for additional data from mt. patrol forms.

OTHER (Committees, Other Meetings and Organizations, Patrols . . .)

The naturalist worked with various BSP Advisory sub-committees throughout 1996, especially with the Park Use committee, History committee, Road and Transportation committee, and the Director's Research Committee. At the request of the Park Director and in cooperation with Region III Vocational Technical Institute in Lincoln, Jean also hosted job shadow students for 3 days in 1996. She attended the spring conference of the Maine Environmental Education Association in Old Town and a two-day spring meeting of the Maine Biodiversity Project in Ellsworth. In December she attended a pilot meeting of Partners in Flight at U.M. Orono. This national organization is engaged in coordinating and encouraging volunteer bird census/monitoring work in each state.

Dr. Elizabeth Gibbs, manuscript editor of the *Northeastern Naturalist* (formerly *Maine Naturalist*), asked Jean to submit an article on the federal butterfly poaching case which involved Katahdin arctic butterflies. That article will be published in June 1997.



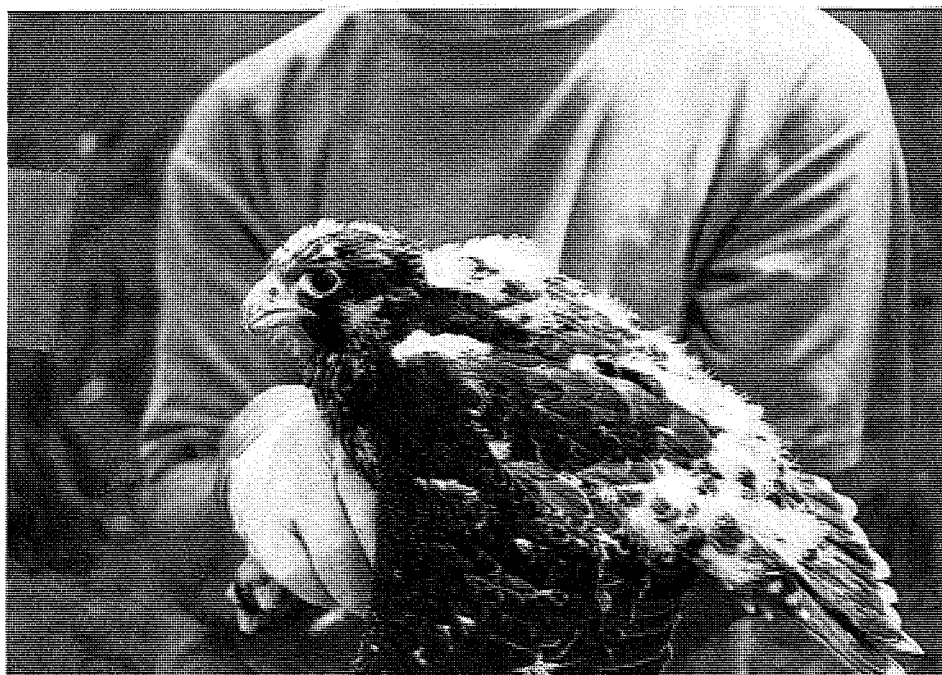
(Katahdin arctic butterfly)

Governor King's visit to our Park in October prompted a return to "mountain crafting", to produce a model of Katahdin suitable for display in the state capitol. Once again, Hinckley Boat Yard staff of Southwest Harbor kindly worked with the BSP Naturalist, donating their expertise and materials in pulling 2 fiberglass models from the original mold (one extra for a back-up in case of breakage). Jean returned with these rough models to Millinocket and began patching and grinding them in December in preparation for the final coats of paint she would add before delivering one to the Governor's office in April of 1997.



Governor Angus King & son Ben at Togue Pd. Visitor Information Ctr., Oct., 1996)

1996 was an excellent year for hiking and outdoor patrols. The naturalist spent time on and around Katahdin early in the season partly to orient Alpine Stewards and partly because of the peak bloom period of alpine flowers. In early July, the Alpine Stewards, Naturalist Assistant and the Naturalist all accompanied Peregrine Project personnel to the top of the cliffs on Horse Mountain and helped set up their hack site for the project. Later in the summer she was able to accompany I.F. & W. fisheries biologists during some of their water and fisheries monitoring efforts. Whenever possible, she met with researchers using the Park, both long-term researchers such as marten project personnel and short-term researchers such as Paul Donahue. In the fall, she covered Russell Pond Campground for CRI Brendan Curran on his days off and was able to hike in the area around Russell Pond for a few days as well as making two trips into Hudson Pond with administrative staff to assess trail location and possible lean-to sites.



(Juvenile peregrine falcon, July 1996)

Meanwhile, back at the office, major remodeling and renovations began in mid-November. The project provided increased office space upstairs including the addition of a new closet and larger window in the Naturalist's office. The work went smoothly and was accomplished with a sensitivity to our work requirements. On that note, we leave 1996 behind and look forward to accomplishments in 1997!

Appendix
Information/Education



“... We need to protect ... our ... last wild and roadless places: to guard them as fiercely as we would our libraries or any other heritage...”

- Wallace Stegner -

Illustration: Jane Thomas



BAXTER STATE PARK 1996 SUMMER EVENING PROGRAMS

July 9, Tuesday: "Niagara Falls Nature Ramble." Learn about some of our plants and birds while hiking to these beautiful falls with Jean Hoekwater, BSP Naturalist, **Daicey Pond Library.**

July 17, Wednesday, "Mainely Martens." Learn about this lively and beautiful mammal, including an introduction to the radio-tracking methods used to study them in the wild in Baxter. Members of the Marten Project, University of Maine, **Kidney Pond Library.**

July 22, Monday, "Chimney Pond Tales." Enjoy the humor and legends of Leroy Dudley, shared by BSP's resident storyteller, author and artist, Jane Thomas. **Daicey Pond Library.**

July 31, Wednesday, "The Life of a Ranger." BSP Ranger Robert Howes gives Park visitors a window into the ever-changing, ever-challenging world of public service and resource protection in the great outdoors. **Kidney Pond Library.**

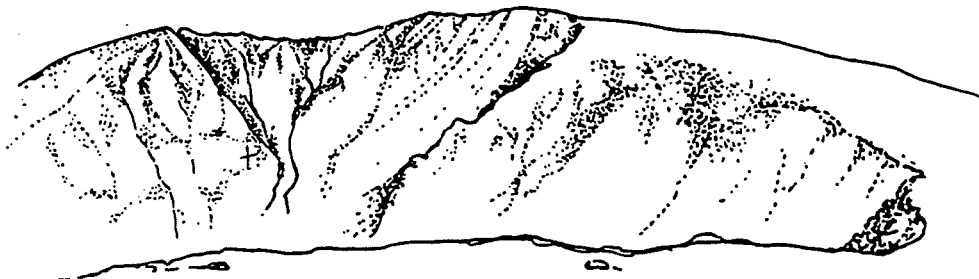
August 7, Wednesday, "Don Fendler-Lost on a Mountain in Maine." Author Don Fendler is making a special visit to the Park to share his experiences with our visitors. He especially enjoys answering questions from children of all ages to help them learn to enjoy the outdoors safely. **Daicey Pond Library.**

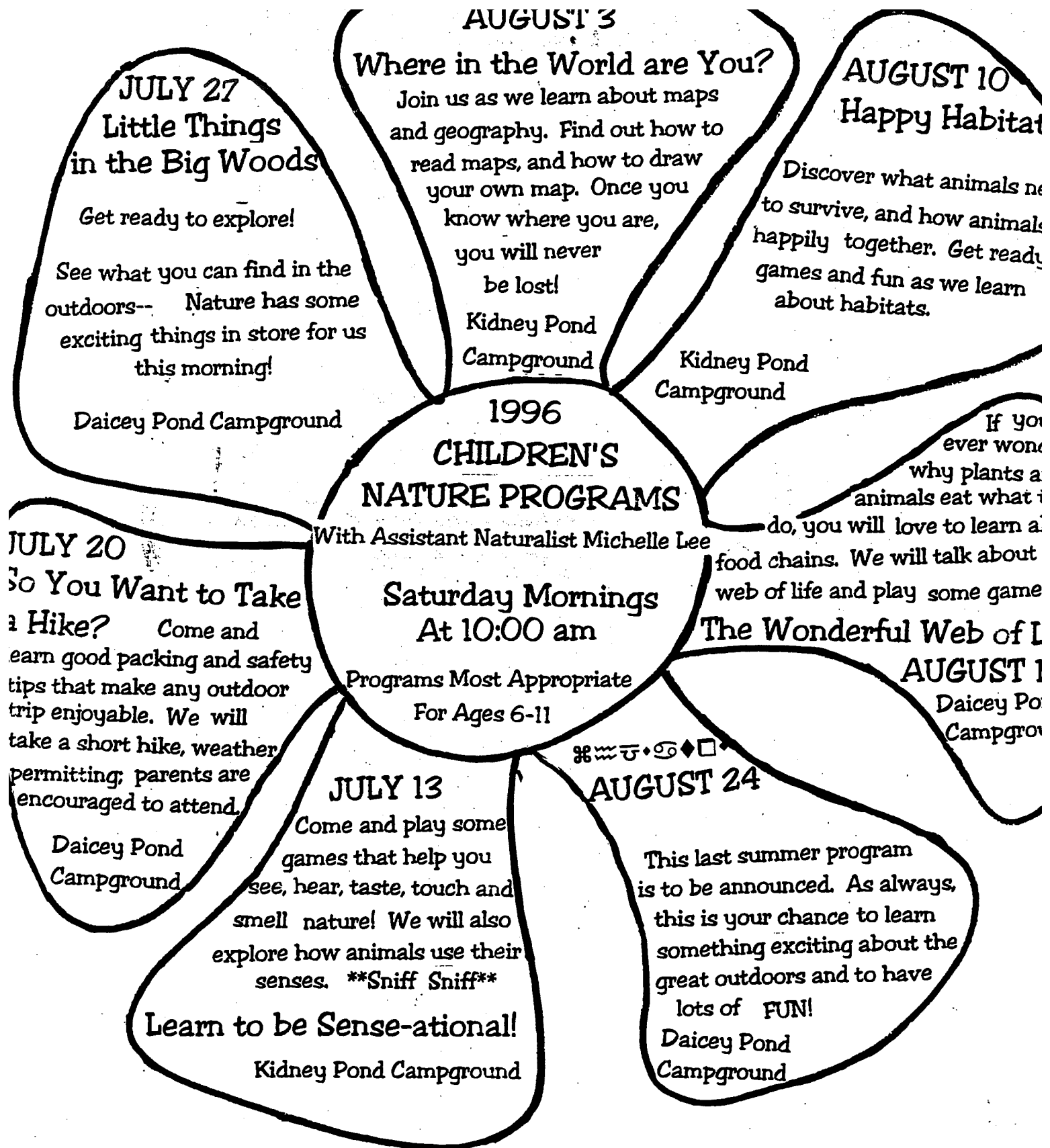
August 14, Wednesday, "The 'Bear' Facts." BSP Chief Ranger Chris Drew keeps the laughs coming while sharing facts and anecdotes about black bears. **Kidney Pond Library.**

August 19, Monday, "Chimney Pond Tales." Enjoy the humor and legends of Leroy Dudley, shared by BSP resident storyteller, author and artist, Jane Thomas. **Daicey Pond Library.**

August 27, Tuesday, "Hikers, Hunters and Harvesting." Learn about the Scientific Management Area in Baxter with BSP Resource Manager Jensen Bissell. **Kidney Pond Library.**

ALL PROGRAMS BEGIN AT 7 P.M. ALL AGES WELCOME!!





PARENTS ARE ALWAYS WELCOME!

**Join Us Rain or Shine at the Campground Library!
See You There!!!**

TOGUE POND GATE VISITOR NOTES - 1997

Visitors from:

1. Every state except Hawaii and North Dakota (determined by license plate).
2. 8 Canadian Provinces (by license plate).

Nova Scotia
New Brunswick
Ontario
Quebec

Alberta
Prince Edward Island
Newfoundland/Labrador
Saskatchewan

3. 25 Countries (by asking).

Switzerland
Belgium
Germany
Austria
Italy
Holland
England
Denmark

Finland
Luxembourg
Swaziland
France
Poland
Romania
Japan
Ireland

Israel
Kanya
Czeck Republic
Hong Kong
Wales
Spain
China
Australia

1996 A/T/ DATA

Lester Kenway, Trail Supervisor, submitted the following information, summarizing hiker statistics from the AT register box located at Big Niagara Falls:

"I have attached a table that summarizes the number of hikers that were registered at the Big Niagara Falls register box during the 1996 season.

Registrations are up over 1995 (+8%).

Of particular note is the drop in hikers arriving from the '100 mile wilderness' (56%), and the strong increase in AT 2000 mile hikers (+112%)."

BIG NIAGARA FALLS REGISTER 1996 SUMMARY

<u>Starting Pt.</u>	<u>Winter 95/96*</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct 96**</u>	<u>TOTAL</u>
W/in BSP	31	137	206	417	454	203	73	1,521
Abol Bridge	6	3	3	3	19	13	10	57
N. of Monson	0	12	0	13	20	5	0	50
Monson	0	5	10	13	34	17	4	83
W/in Maine	0	0	9	23	5	1	0	38
Outside ME	1	0	0	11	6	14	9	41
Springer	19	0	2	18	42	79	95	255
Unknown	2	2	0	12	24	19	27	86
TOTAL	59	159	230	510	604	351	218	2,131

Changes from 1995:

W/in BSP	+12%
Abol Bridge	-12%
No. of Monson	-11%
Monson	-56% large decrease in this area may be due in part to new policy on leaving cars at Daicey Pond
W/in Maine	+36
Outside ME	58%
Springer	+112% largest increase since we have been maintaining the register box
Unknown	+43%

In 1979 we had 80 AT thru hikers register at the box.

This year 255 AT thru hikers registered.

This type of trail use has more than tripled since 1979.

* - 10/17/95 - 4/30/96

** - 10/1/96 - 10/24/96

FINDINGS FOR JULY 11-12, 1996

Kris Rolleston

RR2 Box 1260

Dover-Foxcroft, ME 04420

Katahdin Stream

Air temp: 24°C

Water temp: 11.2°C

Rate of flow: #1-14.8scc, #2 - 15.6scc, #3 - 17.3scc all per 5 meters

Dissolved oxygen - 11 ppm

No nymphs or larva found

Nesowadnehunk Stream

Air temp: 29°C

Water temp: 20°C

Rate of flow: #1 - (8.89scc), #2 - 10scc, #3 - 6.3scc all per 5 meters

Nymphs and larva

7 long-horned caddis flies

Abol Stream

Air temp: 23°C

Water temp: 12.9°C

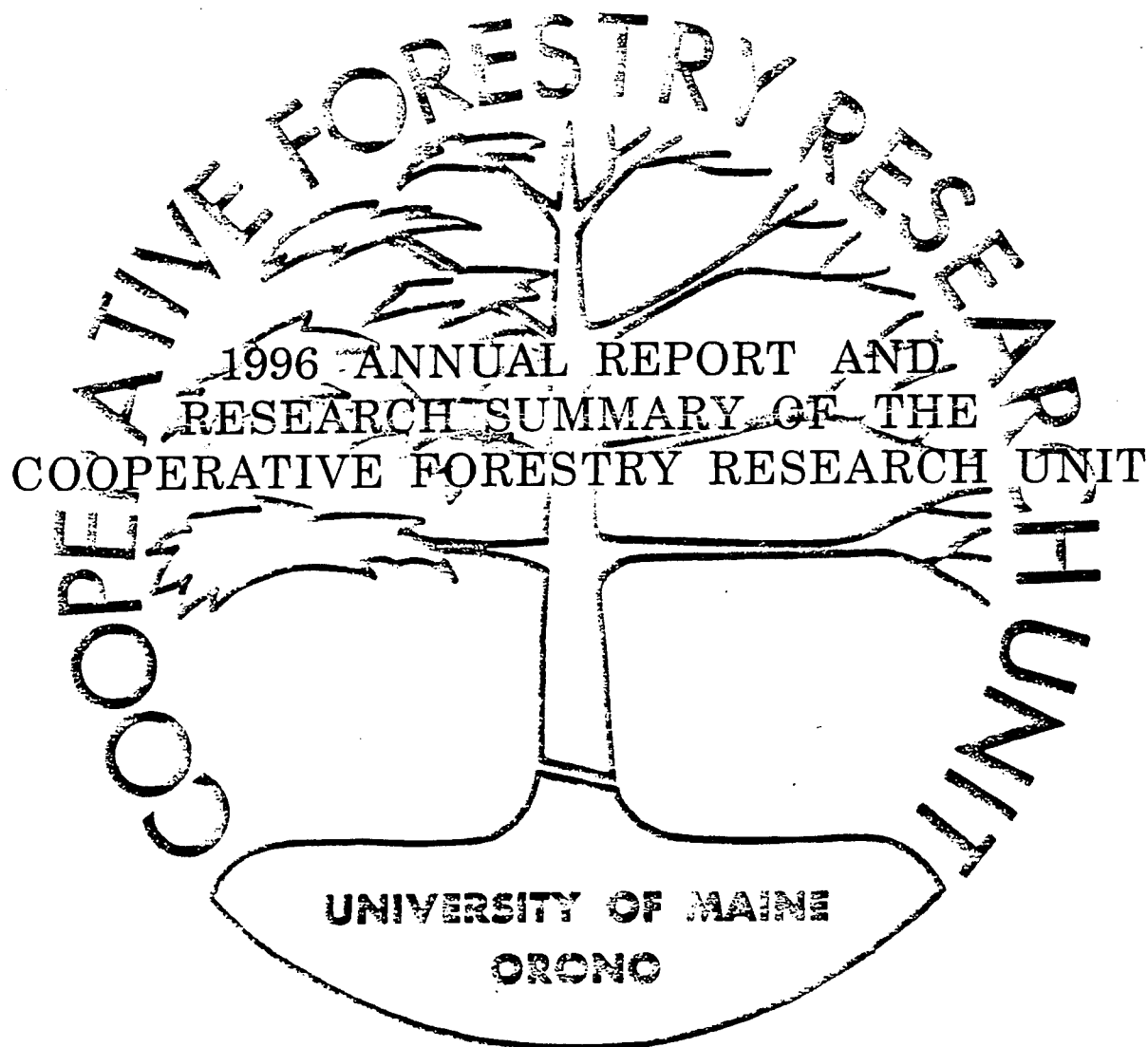
Rate of flow: #1 - 15.5scc, #2 - 14.1scc, #3 - 14.4scc all per 5 meters

Dissolved oxygen: 10 ppm

No nymphs or larva

1 each: earthworm and land beetle

CFRU Information Report 39



COLLEGE OF NATURAL RESOURCES, FORESTRY AND AGRICULTURE
MAINE AGRICULTURAL AND FOREST EXPERIMENT STATION
UNIVERSITY OF MAINE
ORONO, MAINE 04469

EFFECTS OF TIMBER HARVESTING AND TRAPPING ON AMERICAN MARTENS IN NORTHERN MAINE

Dr. Daniel J. Harrison

Introduction

Field work on the CFRU-funded portion of our project began in May 1994 within the Baxter Park site. This site represents the baseline without trapping or timber harvesting and is designed to compare the relative effects of trapping and timber harvesting (T4 R11) and timber harvesting without trapping (T5 R11) on marten population characteristics and habitat selection. Additional funding to support this work is provided by the Maine Forest Service (MFS) and the Maine Department of Inland Fisheries and Wildlife (MDIFW). Companion studies in the adjacent industrial landscape (T4 R11, T5 R11) are being funded by MDIFW, the Maine Agricultural and Forest Experiment Station (MAFES), and the Department of Wildlife Ecology (DWE), University of Maine. Associated projects are also being supported by the National Council of the Paper Industry for Air and Stream Improvement (NCASI). Project personnel during 1995-96 included David Payer (Ph.D. student), Theodore Chapin (Research Associate), Thomas Hodgman (Research Associate), H. Joseph Lachowski (M.S. student), Duggins Wroe (technician), Scott McLellan (undergraduate technician), and Rodney Kelshaw, Michael Estabrook, and Anthony McCue (undergraduate summer technicians). Payer's dissertation will address a comparison of marten population characteristics and habitat selection among the three treatments. Field work will be completed during spring 1998 and will represent the basis of a single final report to be submitted to all project sponsors in 1999.

Objectives

The specific objectives of the CFRU funded portion of our project are to

1. Document and compare seasonal habitat selection by martens in an untrapped forest preserve, an untrapped industrial forest, and a trapped industrial forest.
2. Document and compare population characteristics (i.e., home range size, inter- and intra-sexual home range overlap, density, age and sex structure, survival and percent females lactating) of martens in an untrapped forest preserve, an untrapped industrial forest, and a trapped industrial forest.

Funding

As proposed, CFRU funding covers 50% of the direct costs to operate the Baxter Park study area. Scheduled CFRU funding, additional to \$15,564 provided by Maine Forest Service and \$5,700 "in kind" support (flying time, contract labor, vehicles) provided

by MDIFW was sufficient to cover field operations during FY 1995-96. All funding was provided as scheduled, which allowed us to proceed with all objectives as proposed. Further, companion studies of marten on adjacent industrial forest continue to be fully funded via MDIFW, MAFES, and DWE.

The National Council of the Paper Industry for Air and Stream Improvement is providing additional support during 1 April 1995 to 31 March 1997. This funding is targeted to evaluate and compare microhabitat characteristics in areas receiving different intensities of use (high use, low use, no use) by martens. The specific objective of this work is to document and compare microhabitat characteristics between forests (> 20 ft in height) with different intensities of use by resident, nonjuvenile martens. This work is occurring within the industrial forest treatment area (trapping closure) and within Baxter Park. The goal is to integrate the landscape-level findings from the extensive study with site-specific recommendations on ways to maximize habitat suitability for martens in harvested stands. Field work for this portion of the project occurred simultaneously with ongoing radio telemetry studies of marten during summers 1995-96 in T5 R11 WELS and in Baxter Park.

Progress During October 1995 to September 1996

We trapped martens from 22 May to 30 June 1996 in T5 R11 WELS, T4 R11 WELS and Baxter State Park. We captured and radiocollared 76 (28 females, 48 males) marten during 1996, which was a 38% and 58% increase in number of captures over 1995 and 1994, respectively. Each captured marten was sexed, weighed, measured, examined for reproductive status, aged, ear-tagged, and radiocollared. The number of adult male marten resident on the Baxter Park study site ranged from eight to 17 individuals during 1991 to 1995 whereas the number of adult female residents ranged from four to ten (Figure 30).

We monitored radiocollared martens from the air on a weekly basis from 1 October 1995 to 20 May 1996. From 21 May to 30 September 1996, resident marten were monitored approximately two to four times weekly from the ground and weekly from aircraft. As of 30 September 1996, approximately 9,000 locations of collared martens had been obtained. We have sufficient data from all residents to specify individual home ranges and to examine habitat use patterns (placement of the home range on the landscape, habitat selection within the home range, and use of microhabitat characteristics). Home ranges of males have remained relatively stable across years, whereas home ranges of females were smaller in summer 1995 relative to the four previous summers (Figure 31).

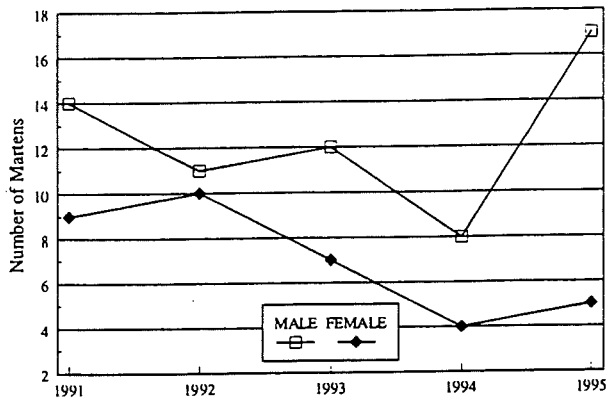


Figure 30. Number of resident marten captured on the Baxter State Park study area, 1991-95.

We continue to monitor population density, individual survival, and reproductive success of captured marten across sites. These data will be used to help us evaluate differences in habitat quality and population performance of marten exposed to the three forest harvest/trapping treatments.

Three townships (T5 R11, T6 R11, and T6 R10) were closed to commercial furbearer (except beaver and bear) trapping by the Maine Department of Inland Fisheries and Wildlife (MDIFW) during 1994 and 1995 to facilitate our study of effects of trapping on marten populations. During 1996 a rule-making to extend this closure was extended for the 1996 trapping season. We are working with MDIFW to enforce this closure, and project personnel have posted signs in strategic areas throughout the three townships to inform trappers of the duration of the closure and the objectives of our study. Additionally, a mailing was sent by MDIFW to all licensed trappers in Maine to inform them of the rule-making.

Associated Projects

Marten Use and Microhabitat

Background and Scope: Stand-scale habitat selection by marten is thought to reflect a choice for stands with microhabitat characteristics that provide an abundance of horizontal and vertical structure. However, the relationships of marten use of forests with structural attributes has not been quantified, except for den and rest sites, which do not appear to be limiting in the forests of Maine. A verified relationship of the use intensity of forested habitats with structural attributes may enable managers to shed the paradigm that marten require mature, conifer-dominated forests, and may provide opportunities to manage for the structural characteristics of forests required by marten in a wider variety of forest age classes and species types than has previously been considered compatible with marten conservation.

Hence, our specific objectives are (1) to document and compare microhabitat characteristics between forested areas (> 20 ft in height) receiving different intensities of use (number of locations/area) by successful martens (i.e., based on survival and reproductive history) in an industrial forest and a forest preserve and (2) to develop stand-level recommendations regarding silvicultural techniques, harvesting methods, and slash management strategies to maximize habitat quality for martens.

The areas defined by the minimum convex polygon encompassing marten locations on each study site were partitioned into 16-ha grid cells, and intensity of use was quantified for each cell. We sampled overstory, understory, and microhabitat habitat variables at eight sampling sites randomly distributed within each cell. Sampling intensity was stratified by relative cell use to reduce variance. Each cell had a minimum of one sampling station per every 2.5 ha.

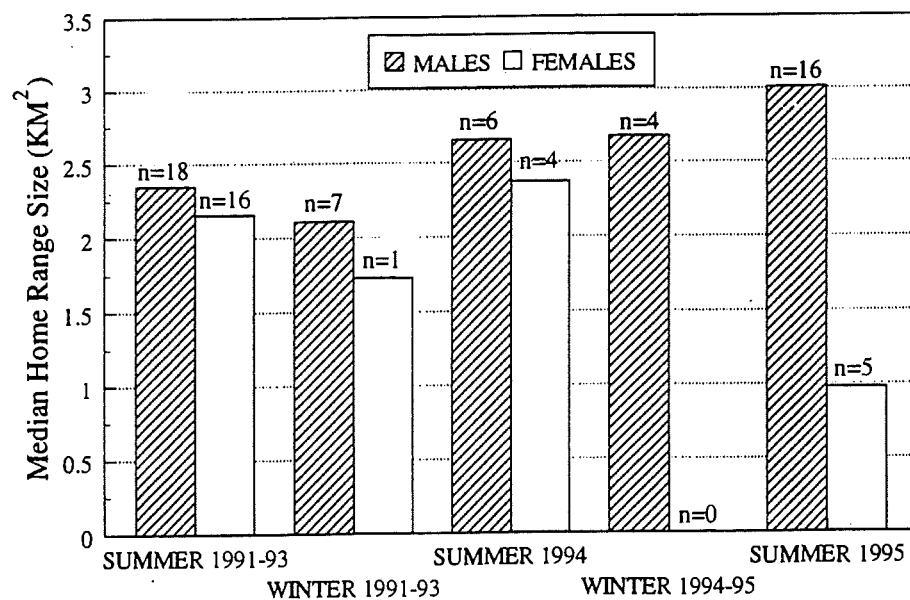


Figure 31. Seasonal home range sizes (median) of radiocollared martens on the Baxter State Park study area, 1991-95.

Use of microhabitat characteristics is being analyzed separately for the industrial forest site and the forest preserve. Following univariate testing and subsequent variable reduction approaches, we will use discriminant function analysis to describe and predict differences in structural characteristics between areas receiving different intensities of use by marten on the Baxter Park and industrial forest sites. Highly correlated variables will be collapsed as necessary. Further, comparisons of microhabitat features between regenerating clearcuts (generally receive little use by marten) and regenerating budworm kills (receive much use by marten) will be conducted to identify microhabitat features that might be managed for in the future to maximize use of stands by marten following forest harvesting.

Results: In 1995 and 1996 we surveyed 360 randomly placed plots within the industrial forest and 288 plots in Baxter State Park within areas receiving high, low, or no use by martens. Twenty-two microhabitat variables were measured at each site.

Preliminary univariate analyses for data collected on the industrial forest site suggest that coarse woody debris may not be a limiting factor influencing use of forests by marten in Maine; volumes of snags, stumps, root masses, and logs do not vary appreciably among sites receiving different intensities of marten use (Figure 32). However, basal area averaged $> 110 \text{ ft}^2/\text{A}$ in low and high use areas, and $< 65 \text{ ft}^2/\text{A}$ in areas where no use by resident marten was observed (Figure 33). Further, basal areas of hardwood and softwood trees were nearly equal on high use areas, whereas softwood basal area greatly exceeded hardwood basal area on low use areas (Figure 33). This data is contrary to the paradigm that marten prefer conifer-dominated stands and is consistent with stand- and landscape scale analyses that suggest that, in Maine, marten prefer mixed conifer-deciduous stands over conifer stands. Finally, the microhabitat data confirm results from our previous work that suggests

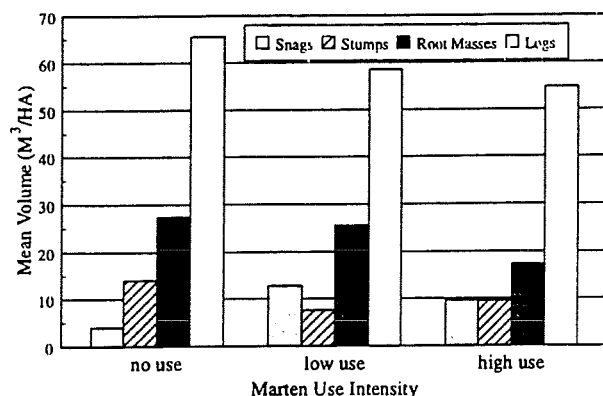


Figure 32. Median volumes of four coarse woody debris classes in areas of high, low, and no observed use by resident martens on the industrial forest site, T5 R11 WELS, Maine.

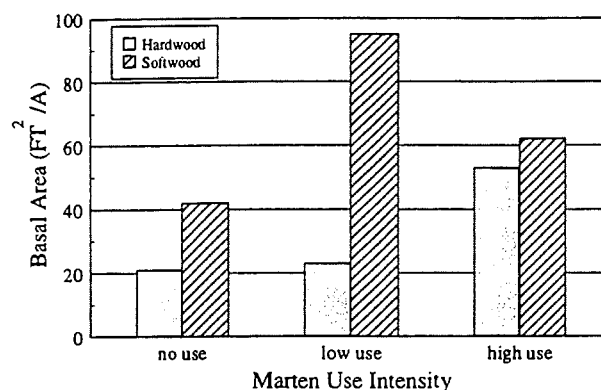


Figure 33. Median basal area of softwood and hardwood trees in areas of high, low, and no observed use by resident martens on the industrial forest site, T5 R11 WELS, Maine.

that height of dominant canopy trees must exceed a threshold of 30 ft for an area to receive substantial use by marten (Figure 34). Although canopy closure of stands receiving use by marten inhabiting the industrial forest exceeded 90% (Figure 34), previous work by us in Baxter Park indicated that structurally complex budworm-killed stands with $< 50\%$ canopy closure receive substantial use by marten. Thus, on the industrial forest site where clearcutting has been the predominant management practice, and where budworm-infected stands were sprayed and salvaged, canopy closure may be merely a correlate of stand age and may not be the ultimate factor influencing use intensity by martens. Multivariate modelling will help to account for multi-collinearity among variables.

FUNDING SOURCES: NCASI, MDIFW, MAFES, CFRU, MFS, DWE

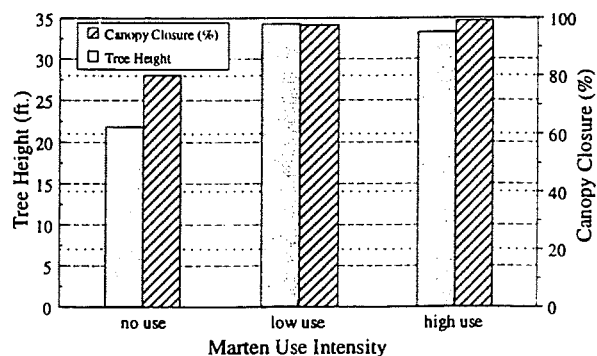


Figure 34. Median tree height and canopy closure in areas of high, low, and no observed use by resident martens on the industrial forest site, T5 R11 WELS, Maine.

Forest Type and Microhabitat Associations of Prey Species

Background and Scope: Marten are thought to select for forest stands with high amounts of vertical and horizontal structure provided by multi-layered overstory, snags, stumps, and coarse woody debris on the forest floor. Structural complexity has been postulated as a correlate with the abundance and availability of small mammals, which constitute the primary prey for marten. Further, marten are also widely cited as an associate with conifer-dominated stands because of perceived positive relationships between conifer dominance and structural complexity.

Hence, we are investigating the relationship between overstory forest characteristics, microhabitat characteristics, and densities of prey species used by martens (primarily lagomorphs and small rodents). Specific objectives are (1) to document seasonal food habits of marten on our industrial forest site (T4 R11, T5 R11 WELS) in northern Maine; (2) to estimate and compare small mammal densities in different forest types (mature mixedwood, mature hardwood, mature softwood, regenerating forest, and stands with severe spruce-budworm damage) classified based on overstory species, tree height, canopy closure, and stocking density; (3) to quantify differences in structural complexity in different stand types; and (4) to evaluate which stand, microhabitat, and structural characteristics are the best predictors of small mammal densities.

Food habits of marten have been quantified from marten scats collected during other field activities. Small mammals were live-trapped in five habitat types (mature mixed deciduous-coniferous, mature deciduous, mature coniferous, regenerating forest, and stands with severe spruce-budworm damage). Also, snowshoe hare densities are being indexed on each grid by counting pellets on transects distributed throughout the trap grids. Microhabitat characteristics were measured on the trapping grids and then analyzed to determine if small mammals demonstrate habitat selection at the stand level (based on overstory type) or at the microhabitat level. Multivariate linear regression models are being used to evaluate the relationship between the response variable (small mammal densities) and the explanatory variables (microhabitat variables), and to predict the precision by which a foraging marten may be able to predict available food resources from overstory and microhabitat characteristics. We hope to identify which structural features could be managed for in harvested forest stands to maintain use by marten and their principal prey species.

Results: Marten scats ($n = 219$) collected during 1991 through 1995 were analyzed for percentage occurrence of food items. Weighted equally among seasons, red-backed vole was the most common prey species (45.5%), followed by deer mice (32.3%), red squirrels (23.1%), snowshoe hare (12.6%), and shrews (13.3%) (Fig. 35). Individually, a snowshoe hare greatly exceeds the volume of other prey species;

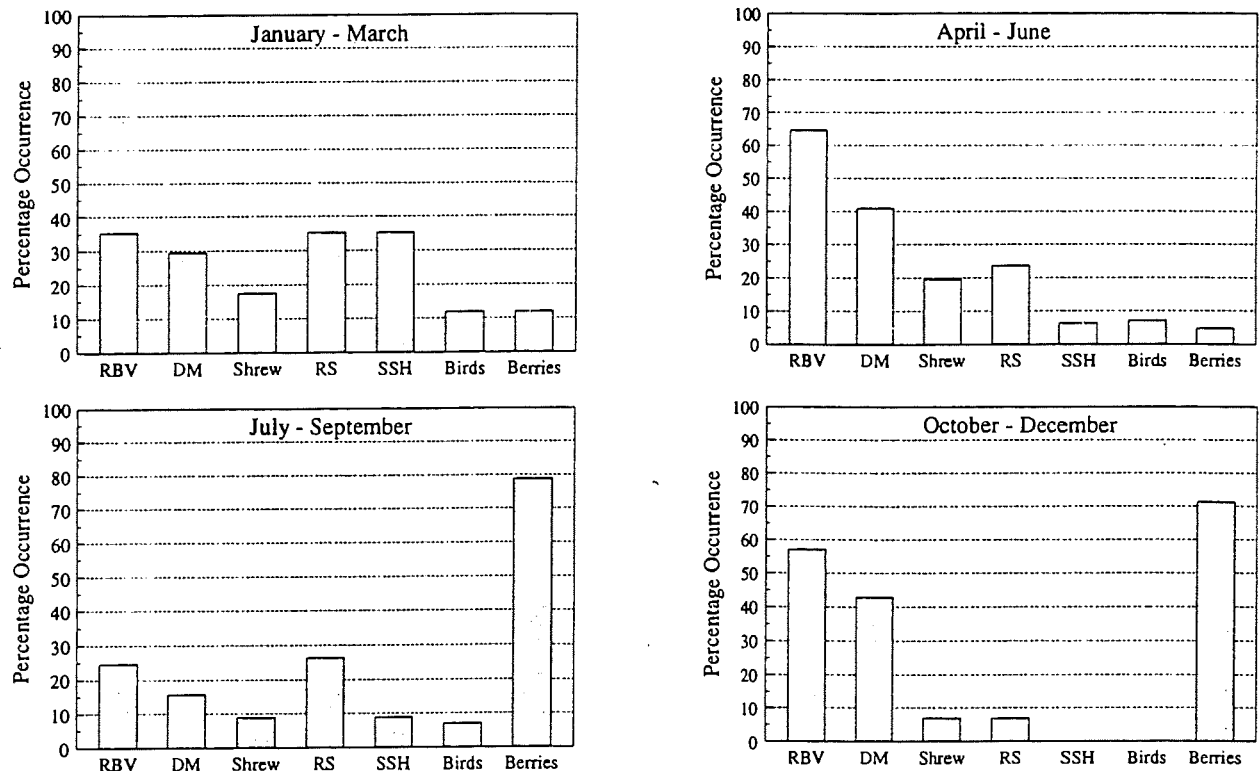


Figure 35. Percentage occurrence, by season, of food items in 219 marten scats collected during 1991 through 1995 in T4 R11 WELS, T5 R11 WELS, T5 R10 WELS, northern Maine. RBV = red-backed vole, DM = deer mouse, RS = red squirrel, SSH = snowshoe hare.

therefore, hares may be more important to marten than indicated by percent occurrence in scats. Further, occurrence of hare ranked first (tied with red-backed voles) as the most commonly occurring prey species during winter, suggesting that hares may be more important than previously thought in the ecology of marten during the most energetically stressful season (winter). Interestingly, pellet densities and rates of incidental captures of hares were higher in regenerating clearcuts than in all other forest types. Incidental capture rates of red squirrels did not differ significantly among forest overstory types.

Small mammal densities were estimated based on 1849 captures of 865 individuals during summer 1995 and 700 captures of 287 individuals in 1996. Mixed deciduous-coniferous forest had the highest vole densities, deciduous and mixed forests had highest densities of deer mice, and deciduous habitats had the highest densities of shrews. Given marten food preferences, mixed stands probably provide the greatest prey availability, followed by deciduous and then coniferous stands. As a group, mice and voles were more abundant in hardwood and mixed stands than in regenerating, budworm-killed, or coniferous stands. Notably, the rank order in mice and vole densities

consistently parallels the rank order in overstory type selection that we observed by radiocollared marten during 1989 and 1990 on the industrial forest site.

Small mammal abundance was higher in mature stands than in regenerating or budworm-killed stands, and was associated with microhabitat variables that are influenced by stand age. Significant variables in multivariate regressions such as canopy closure, dbh, litter depth, percent live ground cover, and volume of stumps, are all influenced greatly by stand age, past forestry practices, and history of insect defoliation. Remarkably, small mammal densities were not significantly associated with variables associated with structure, or with volumes of coarse woody debris. Apparently, sufficient structure to satisfy the habitat requirements of small mammals and martens occurs within the variety of forest types and age classes that we surveyed. Thus, several lines of evidence now indicate that availability of coarse woody structure does not generally limit marten use of mature and regenerating forests in Maine.

1996 Peregrine Falcon Reintroduction - Maine Horse Mountain Hack Site Report

1. Personnel at Hack Site. Jennifer Conway, 28 Wilson St., Worcester, MA 01604; Heather Givens, 36 Minuteman Dr., Millinocket, ME 04462; Shawn Haskell, 189 Boundary Rd., Standish, ME 04084.

2. Description of the Site. Horse Mountain is located at the northeast edge of Baxter State Park in the unorganized township T6 R8 WELS, Penobscot County, Maine; 46° 08' 37" N, 68° 48' 19" W. The cliff is east-facing, rising about 600 feet and overlooking the east end of Grand Lake Matagamon. There is a talus slope at the base of the cliff, and the cliff itself is an almost vertical drop with several significant overhangs and ledges. The forest on the slopes of Horse Mountain is predominantly striped maple (*Acer pensylvanicum*) and birch (*Betula* sp.), with balsam fir (*Abies balsamea*) and spruce (*Picea* sp.) mixed in. The top of the mountain contains spruce and some stunted birch, and on the bare places grow lowbush blueberry (*Vaccinium* sp.), three-toothed cinquefoil (*Potentilla tridentata*), and pale corydalis (*Corydalis sempervirens*), among other plants. There are large patches of orange lichen on the cliff face.

An historic account of Indian lore (Hubbard 1884) implies peregrine falcon (*Falco peregrinus*) residency at Horse Mountain, although there is no certain documentation that this was an historic eyrie. Horse Mountain was used as a hack site during 1984 and 1985; 16 of 16 young peregrines reintroduced here successfully fledged. A single peregrine initially appeared here in 1985 during the hacking operation, and was resident again in 1986 and 1989. A pair of peregrines occupied an eyrie at Horse Mountain from 1990 to 1991, but did not breed successfully. A single peregrine was seen here again in 1993.

3. History Details of Young.

Name	Sex	Federal Band Number/leg/color	Color Band Number/leg	Date and Age Placed in Box
Gus	M	220625995/R/gold	R4/L	1 July 36 days
Binger	F	1807-38855/R/blue	54/L	1 July 36 days
Popeye	M	220625994/R/purple	T4/L	1 July 35 days
Whitey	M	220625993/R/white	S4/L	1 July 35 days
Gretta	F	1807-38854/L/green	55/R	1 July 35 days
Yo-yo	F	1807-38856/R/yellow*	57/L	24 July 39 days
BB	F	1807-38857/R/blue*	56/L	24 July 36 days
Opie	M	220625996/R/orange**	U4/L	24 July 34 days

*Colored tape was applied to the band for better visibility, because the other spray paint colors had worn off rapidly during the earlier hack.

**This falcon's band was originally painted silver, but orange tape was put on the band for better visibility.

4. Pre-release Details. The day prior to release, Popeye caught a talon of his left foot in the door of the hack box and struggled for several minutes before attendants were able to free him. He was weakened, but retained function of the leg. He also bled briefly from a broken feather quill or small laceration on the wrist of the left wing, apparently sustained during this incident.

Prior to the release of the second batch of falcons, there was no noticeable interaction between the falcons in the hack box and the older fledglings outside.

5. Release Details.

Name	Sex	Date and Time Released	Age at Release	Time to First Flight	Time to Return to Box after Flying
Gus	M	7 July 1325	43 days	0 days - 2.75 hrs.	1 days - 15.5 hrs.
Popeye	M	7 July 1325	42 days	*(16.5 - 22.5 hrs)	(0 - 6 hrs)
Whitey	M	7 July 1325	42 days	0 days - 3.5 hrs.	2 days - 0.5 hrs.
Binger	F	7 July 1325	43 days	0 days - 3.0 hrs.	0 days - 19 hrs.
Gretta	F	7 July 1325	42 days	0 days - 2.0 hrs.	0 days - 18.5 hrs.
Yo-yo	F	2 August 0925	48 days	0 days - 2.5 hrs.	1 day - 14.75 hrs.
BB	F	2 August 0925	45 days	**(10 - 21 hrs.)	(53 - 64 hrs.)
Opie	M	2 August 0925	43 days	0 days - 4.25 hrs.	0 days - 21.0 hrs.

*This falcon fledged unobserved; time of first flight and return interval were not precisely determined.

**This falcon hopped out of sight in the bushes and the time at which she fledged could not be precisely determined.

Day 1 of the 7 July release was fair with light winds. A physical examination of Popeye revealed that he was somewhat weakened, but that he retained full function of his legs and wings. We decided to release him, but we left 2 extra quail in the hack box as an energy and nutrition supplement for him.

All 4 birds that exited the box (Popeye stayed inside the first day) took part in hopping and wing flapping before their first flights. Gretta was the first out of the box and flapping, within 15 minutes of release. Gus soon followed. Gretta walked/hopped, via a makeshift ladder, to the top of the hack box and fed on quail near the food chute. Whitey and Binger were next to emerge and exercise their wings. Gretta took the first flight, flapping and gliding two 30m loops in front of the cliff before landing on the cliff out of sight below the hack box ledge. By 2045 the 4 falcons, excluding Popeye, were out of sight and believed to be on a lower ledge. Popeye exited the box unobserved, in a thick fog, during Day 2, and was observed on his return flight to the hack box at 1205 that day. A severe thunderstorm, including hail, occurred during 1300-1600.

The second release was scheduled for 1 August, but postponed to 2 August due to dense fog and gusting winds. The older falcons were absent, as predicted, when the front of the hack box was removed at 0925. Opie was the first out of the box; BB and Yo-yo emerged 30 minutes later. The 3 falcons flapped wings and hopped

about the hack ledge. Yo-yo flew long and strong out of view 1 hour after exiting the box. BB made her debut flight in the presence of 2 of the older hacked fledglings, one of whom landed with her on a lower ledge. None of the older falcons was observed to attack or harass the younger fledglings during this day of relatively high vulnerability.

6. Hunting Behavior. As early as 2 days after release, Greta aerially assaulted 2 cliff swallows (*Hirundo pyrrhonota*). After this incident, the group of swallows that had been frequenting the cliff area were seen far less often. That same day, Binger and Whitey were seen chasing and grappling with each other, as were Gus and Greta. Three days after release, Gus was seen carrying a scrap of quail from the feeding site at the top of the hack box, to a location 40m away. On day 4, one of the peregrines struck a butterfly. On day 5 Gus captured a dragonfly, dropped it, and stooped on it again before dropping it for good. Catching and eating airborne insects become commonplace for all the falcons. Whitey was the first to be observed carrying whole quail in flight, 8 days after release. On day 9 he chased a turkey vulture (*Cathartes aura*) 1.0 km across the lake. Later the same day, all 5 falcons were observed harassing a colony of herring gulls (*Larus argentatus*) over the lake. Although hack attendants never witnessed a gull kill, a visitor to the hack site reported observing a kill 5 or 6 weeks after the first release. The older falcons commonly made 150-200m stoops, disappearing from view. One or 2 falcons would occasionally be absent from the cliff for days at a time and not feed upon returning, suggesting that they were procuring sufficient food by their own efforts. The 3 younger falcons showed first signs of hunting behavior as early as day 4 post-release; they chased each other, stooped on turkey vultures, and preyed on dragonflies. Most of the falcons were observed to stoop on birds, although in most cases it was impossible to identify the individual falcon. On 22 August, one of the falcons flew in from the lake carrying something large in its talons -- presumably a successful catch.
7. Roosting Behavior. The falcons spent the majority of their roosting time on ledges that had a significant overhang, or in dead trees under overhangs. Several places on the cliff were favored (refer to file photograph). Just underneath the hack box was a small overhang with a wide-spreading dead tree that was frequently used. Also, there were 2 ledges with overhangs to the south of the box, below a ledge where 3 large oak (*Quercus* sp.) trees were growing (in addition, a dead branch in the north-most of these oaks was one of the most often used perches). Straight down from the hack box was a broad face with orange lichen on it; beneath this face was a small ledge, and a second ledge sloped up the bottom of the face toward the north. Both of these ledges were used. A large overhang at the north end of the cliff sheltered another dead tree that was used several times, and the top of the cliff to the north of the hack box was often a perch site. Other places on the cliff were also used, but not as often. When perching, 1 or 2 birds would be on 1 ledge or the tree. If a third bird came along, there was usually some chaos

and 1 or 2 of the birds would leave. The falcons spent the longest times on the ledges, rather than in the dead trees.

8. Dispersal.

Name	Sex	Date Last Seen <u>Eating at Box</u>	Date Last Seen <u>at Site</u>	Age When <u>Last Seen</u>	No. Days <u>After Release</u>
Gus	M	3 September	5 September	102 days	60 days
Popeye	M	29 August	29 August	94 days	53 days
Whitey	M	29 August	29 August	94 days	53 days
Binger	F	21 August	21 August	87 days	45 days
Gretta	F	10 August	10 August	75 days	34 days
Yo-yo	F	19 August	19 August	65 days	17 days
BB	F	7 September	7 September	81 days	36 days
Opie	M	7 September	7 September	79 days	36 days

The older falcons remained at the hack site longer than expected; at least 3 of the 5 older peregrines fed at the hack box 1 or 2 days prior to the attendants breaking camp on 30 August, 54 days after the first release. The lingering of the older birds may have been due at least in part to the 2 August release of 3 younger falcons and the concurrent increased provision of quail. The older birds seemed to be self-sufficient by this time, occasionally disappearing for days at a time, or simply not eating the available quail for a few days. However, the older falcons sometimes carried whole quail away from the hack box. We tied quail down to force the peregrines to feed at the site, allowing us more time to make positive identification of individuals.

Gretta, the largest and most dominant female, was the first to disperse at day 34 post-release. Whitey disappeared at the same time, but returned after 5 days absence. Yo-yo, a female of the second release, was the next bird of either group to disperse, after 17 days out of the box. She was observed, but not captured, 14 October at a raptor trapping station south of Boston, MA by Norman Smith of Massachusetts Audubon. BB and Opie fed at the hack site on 7 September, but were not seen during a final brief visit to provide quail on 8 September.

9. General Evaluation of Falcons. Prior to the 7 July release, it was apparent that the males were ready to go, as they were always found at the front edge of the hack box; on the other hand, the females spent most of the time behind the hide. Popeye's high level of activity was almost his undoing, as he was injured when a talon was caught in the side door the day before release; it was several days before he fully recovered his strength. The door seam was sealed off before the second group of falcons was placed in the box, to prevent a similar mishap.

The older peregrines paid scant attention to the 3 younger birds while they were in the box prior to the 2 August release. While the older birds may have seemed intimidating to the younger 3 during the first day, the younger falcons never appeared to be at risk. After release, all peregrine falcons spent much time

chasing and playing with each other, as well as chasing turkey vultures and common ravens (*Corvus corax*). They were more often than not seen flying in pairs or threes.

Gus was rather wary in general. He would fly back and forth in front of the box before landing to eat his quail. If he sensed people, he would "kek-kek" and fly away. He did not usually eat on the box; instead, he flew off with his quail. He was seen diving on turkey vultures. Gus sometimes would fly back and forth over the box and dive on one of the younger falcons eating there. Sometimes he seemed to have trouble lining up to land on the box, and had to make several attempts at landing, even in late August.

Binger also always flew off with her quail. Some days she would take one away, then come back and get another. Often, Gus or one of the other falcons would chase her with her quail. Several times, Yo-yo or Opie stole her quail from her, either on the box or in flight. She was subordinate, and gave up without much fight. Binger was much more tolerant of human observation than was Gus.

Popeye did not have any especially prominent characteristics. He typically landed on the box only to eat, and did not hang around. He would eat on the box if not disturbed, but if he sensed human presence or was harassed by another falcon, he flew off with his quail. He sometimes seemed quite nervous that another falcon would steal his quail. He was quite an agile flyer.

Whitey was similar to Popeye. He showed up at the box to eat, and did not hang around much otherwise. He would sometimes eat at the box, but often flew off with his quail.

Gretta was the first falcon to emerge from the hack box, and the first to disperse. She was somewhat aggressive, chasing both turkey vultures and other falcons. She often ate on the box. Gretta did not seem either very tame or very timid of humans.

Yo-yo was quite aggressive. Several times she stole quail from Opie and Binger, more than once in mid-air. She was rather wary of humans, and made a lot of "kek-kek" vocalizations when she sensed our presence. Yo-yo was a very good flyer from the start. She only once ate on the box. Some days she did not even come to the box to take a quail away.

BB was very slow to develop. She spent a lot of time around the box, often just lying in the sun on top of it. She often ate more than 1 quail per day, pecking at scraps in the early morning before the falcons were fed, then eating a quail when they were provided, and later in the day returning to start on a second quail. BB had a peculiar way of eating; rather than plucking the feathers as the other birds did, she pecked the head off and then ate from the hole it created. BB was also slow to develop flight skills, although once she was flying a lot, she did quite well. She was quite tolerant of humans, rarely paying attention to them, and sometimes flying within 1m of the observers. One day when there were several turkey vultures sitting on the box, BB did not pay much attention to them, and sat among them on the box. She was generally a very slow, laid-back bird. In flight she did not dive and swoop as much as the other falcons; she tended more to soar. On 5

September BB walked with a prominent limp, indicating a problem with the right leg. On 7 September, BB walked normally with no sign of injury.

Opie did not have any distinguishing characteristics. He was a good flyer, learning quickly after release. He did not appear to be particularly subordinate or aggressive, although once he stole Binger's quail (after which, however, Yo-yo stole it from him). He sometimes ate on the box, sometimes flew off with quail. He was moderately tolerant of humans.

10. Unusual Incidents. The paint on the peregrines' USFWS leg bands began to rub off while the falcons were still in the hack box. It became difficult to distinguish between colors within a week of release. Identification of the first 5 falcons would have been difficult if the birds themselves were not so distinguishable. We applied colored plastic tape to the USFWS bands of the 3 falcons released in August; the tape afforded excellent detectability, and made identification of these birds easy, even when they were in flight.

Hikers occasionally came up the mountain and watched the falcons from a distance, but they were very considerate and did not disturb the falcons. On 22 August, about 8 turkey vultures were circling near the box, and four of them landed on the box and ate the quail. At first, several of the falcons tried chasing them, but after a while gave up. The falcons were fed a second time after the turkey vultures were gone. At other times, up to 11 turkey vultures were seen, but they did not land on the box. After the incident with the turkey vultures, the quail were tied to rocks on top of the box, to prevent both falcons and turkey vultures from carrying them off. Several times the falcons tried to fly off with the quail, only to be pulled up short at the end of the string and fall over the side of the box. The falcons usually let go of the quail at this point and thus were not hurt. On 25 August, Gus pulled the rock off the box in his attempt to fly off with the quail. He was not hurt.

11. General Evaluation of the Site. Horse Mountain was a good place for falcons to be released for several reasons. It was a very large, wide cliff, affording many perching spots and a good view. The lake was big, allowing the falcons to chase birds far enough out to catch them. The talus slope at the bottom of the cliff was a good place from which to observe; although identification of individual falcons was not possible from that point, it gave an excellent view of perch ledges and the falcons could be seen all over the cliff. The top of the cliff was a suitable place to observe the falcons on the box for individual identification, although observers had to be careful since the falcons could easily see the observation point. Horse Mountain was used for 2 groups of falcons placed in the box and released about a month apart. This worked quite well. The older birds did not harass the younger ones much, and may have helped the younger ones to learn. However, it seemed as though continuing to feed the younger falcons kept the older falcons at the site beyond their normal dispersal age. Nevertheless, all the falcons dispersed eventually.

12. Equipment. Loaned by and returned to the Maine Department of Inland Fisheries and Wildlife were: 1 L.L.Bean 6-person tent, 1 propane stove, 2 lawn chairs, 1 spade, 1 cooler, 1 Coleman lantern, 2 pots, 1 frying pan, 1 pot lid, 2 tarps, 1 tripod and spotting scope, several 5- or 6-gallon water jugs, 1 hand saw, 1 hatchet, and 1 Chevy S-10 pickup truck.
13. Acknowledgments. We express sincere thanks to Charlie Todd and Andy Weik from the Maine Department of Inland Fisheries and Wildlife for their guidance and supervision throughout the hack. Thanks also to the Maine Forest Service for flying our equipment to the mountain, to the Dudleys at Matagamon Wilderness Campground for their cooperation and assistance, and to the owners and employees at Scotty's Flying Service at Shin Pond for the use of their freezer. We are grateful to Baxter State Park for allowing us to use Horse Mountain as a hack site, to the rangers at the Matagamon gate for their cooperation and for occasionally driving us back and forth from the mountain to the gate, and to Jean Hoakwater for her assistance in setting up the hack site. We thank the Peregrine Fund at the World Center for Birds of Prey for providing the falcons.
14. Bird List.
- Common loon (*Gavia immer*)
 - Double-crested cormorant (*Phalacrocorax auritus*)
 - American bittern (*Botaurus lentiginosus*)
 - Canada goose (*Branta canadensis*)
 - Turkey vulture (*Cathartes aura*)
 - Sharp-shinned hawk (*Accipiter striatus*)
 - Red-tailed hawk (*Buteo jamaicensis*)
 - Broad-winged hawk (*Buteo platypterus*)
 - Bald eagle (*Haliaeetus leucocephalus*)
 - Golden eagle (*Aquila chrysaetos*)
 - Osprey (*Pandion haliaetus*)
 - Merlin (*Falco columbarius*)
 - American kestrel (*Falco sparverius*)
 - Ruffed grouse (*Bonasa umbellus*)
 - Herring gull (*Larus argentatus*)
 - Ruby-throated hummingbird (*Archilochus colubris*)
 - Common flicker, yellow-shafted (*Colaptes auratus*)
 - Downy woodpecker (*Picoides pubescens*)
 - Yellow-bellied flycatcher (*Empidonax flaviventris*)
 - Alder flycatcher (*Empidonax alnorum*)
 - Least flycatcher (*Empidonax minimus*)
 - Eastern pewee (*Contopus virens*)
 - Barn swallow (*Hirundo rustica*)
 - Cliff swallow (*Petrochelidon pyrrhonota*)

Bird list (cont'd.)

Northern raven (*Corvus corax*)
Blue jay (*Cyanocitta cristata*)
Black-capped chickadee (*Parus atricapillus*)
Red-breasted nuthatch (*Sitta canadensis*)
American robin (*Turdus migratorius*)
Hermit thrush (*Catharus guttatus*)
Cedar waxwing (*Bombycilla cedrorum*)
Solitary vireo (*Vireo solitarius*)
Red-eyed vireo (*Vireo olivaceus*)
Philadelphia vireo (*Vireo philadelphicus*)
Black and white warbler (*Mniotilta varia*)
Nashville warbler (*Vermivora ruficapilla*)
Yellow-rumped warbler (*Dendroica coronata*)
Black-throated green warbler (*Dendroica virens*)
Blackburnian warbler (*Dendroica fusca*)
Ovenbird (*Seiurus aurocapillus*)
Common grackle (*Quiscalus quiscula*)
White-winged crossbill (*Loxia leucoptera*)
Slate-colored junco (*Junco hyemalis*)
White-throated sparrow (*Zonotrichia albicollis*)

MAINE FOREST SERVICE - INSECT & DISEASE MANAGEMENT
PROJECT STATUS REPORT

for

**A Reevaluation of Forest Regeneration in Spruce
Budworm Damaged Stands Within Baxter State Park**

Prepared by, Henry Trial, Jr., Project Initiator
November 4, 1996

The objective of the original Baxter Park Regeneration study was to determine and document over time the composition of regeneration in spruce budworm damaged stands in Baxter State Park and to relate these data to stand composition prior to the recent budworm outbreak.

A new objective of this project in 1996 was to evaluate the health of the regenerating post-budworm stands using National Forest Health Monitoring parameters. By establishing regeneration "micro plots" and assessing the condition of any remaining overstory trees with NFHM variables we will be able to compare these data to existing Maine and regional NFHM data and provide a forest health evaluation for this set of conditions.

This study employed plots established by Seymour in T4 R10 WELS within Baxter State Park. Stands were classified as fir, mixed conifer, spruce, or mixed hardwood conifer based on pre-mortality composition data.

- ♦ Heavy Fir (75% + fir) - plots 2, 5, 9
- ♦ Heavy Spruce (<25% fir) - plots 6, 14
- ♦ Mixed Wood (25-74% Hdw) - plots 4, 15
- ♦ Mixed Softwood 25<x<75% fir and <35% Hdw. - plots 1, 3

Each stand was divided into a variable number of 10 m x 10 m subplots (ares). Data available on these plots includes original (pre-budworm mortality) stand composition, a nearly annual evaluation of budworm induced stand mortality through 1989, and a 1989 MFS measurement of regeneration stocking and composition.

April 1997 Status

Most activities planned for the 1996 field season were completed. Work on one incomplete study plot (plot 4) continued into November. Chronology of the 1996 work was as follows:

During the fall of 1995 and the winter of 1996, all study plots were located and a preliminary evaluation was made of plot regeneration condition, surviving overstory, and plot access. This reconnaissance was done with the permission of the Park Director. It was

determined that significant blowdown would make travel to and within most plots extremely difficult and at times dangerous. Regeneration was extremely dense in most plots and was predominantly less than 20' in height. Surviving overstory was extremely sparse in most plots.

Beginning in the winter and narrow access trails were cut to the plot boundaries. Cutting of these trails was begun in the winter and was generally completed prior to plot measurement in the summer and fall of 1996. Plot corners were identified and their positions were documented with a GPS unit. All plot locations and subplots (ares) were accurately mapped, including bearing and distance.

An application for a research permit was submitted to the Baxter State Park Research Review Committee in February of 1996 and was approved. Park access permits for the summer measurement period were obtained from Jean Hoekwater, Park Naturalist in August and field measurement began in mid August.

Fifty ares from each of the four forest types were sampled during the late summer and fall of 1996 to determine stocking density (commercial species present and their size) and seedling and sapling counts to determine regeneration composition. Five 4 square m (3.7' = radius) subplots per are were used to evaluate stocking and five 1 square m (squares one meter on a side) subplots per are were evaluated to determine regeneration composition.

An NFHM style "micro plot" (6.8' radius) was established at the are center of every forth are in each plot. All measurements normally made on an NFHM micro plot were made for this project. All surviving plot overstory were located by determination of azimuth and distance to the appropriate are center. All NFHM variables were assessed on each overstory stem.

As of November 1996, all measurements were completed on fir (plots 2, 5, and 9), spruce (plots 6 and 14), and mixed sortwood (plots 1 and 3) stands. All measurements except crown condition variables will be collected on mixedwood ares (plot 4) in November. Crown variable data for the mixedwood ares will be collected in June of 1997 after hardwoods refoliate.

Data from the 1996 field season were filed at the MFS, I&DM, Old Town office. These data were entered on the Old Town I&DM computer during the winter of 1996-97. Data analysis and comparison to the 1989 regeneration data (also at Old Town) were begun, however, preliminary results are not yet available. Even though overstory crown data for plot 4 will not be collected until the summer of 1997, analysis of the regeneration component of this study will proceed.

HT/ April 18, 1997

Tentative list of species recorded along Sandy Stream by Paul Donahue in 1996 (pending confirmation on a few on the list):

Calopteryx maculata

Calopteryx species ?(amata?)

Enallagma cf. boreale

Aeshna eremita

Ophiogomphus mainensis

Cordulegasater maculatus

Somatochlora minor

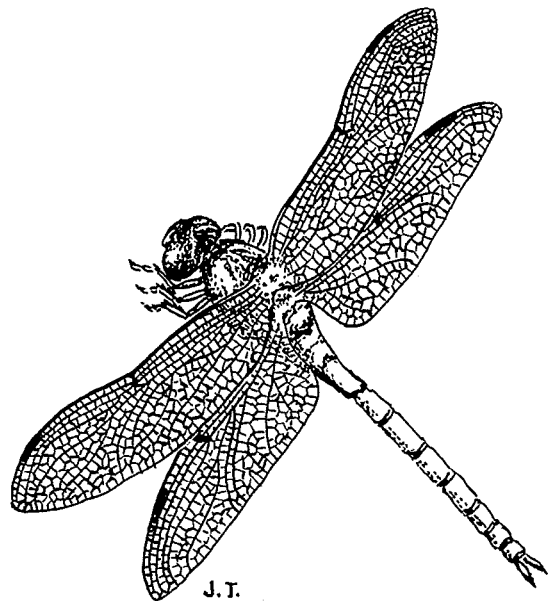
Elsewhere in the park we recorded:

Calopteryx aequabilis

Lanthus parvulus

Cordulia shurtleffi

Libellula julia



Excerpt from dragonfly specialist Paul-Michael Brunelle to Paul Donahue regarding dragonflies species found in Baxter during Paul's investigation in 1996

//

Jean had sent some notes on what you encountered in the Park and I will comment upon them as follows;

Calopteryx maculata and **C. aequabilis** are common at that latitude, *C. aequabilis* is known in Newfoundland and is common in early August in Mt. Carleton Provincial Park, New Brunswick (c. 47.4°N). *Calopteryx dimidiata* is known from Massachusetts but I would not expect it to be separable from *C. aequabilis* in the field.

Calopteryx amata is common along the St. Croix River (Washington County, Maine/Charlotte County, New Brunswick) although it is never present in large numbers - it has been taken as far north as 46.9° so it is likely to be present in BSP, the species has a wide range in Nova Scotia but is again never seen in quantities like its congeners. Females of this species are very difficult to discriminate from *C. aequabilis*, the relative width of the wings being the only really trustworthy characteristic for field determination, colour of wings can be very similar and length is untrustworthy. I have records of this species for the Piscataquis and Naraguagus Rivers in Maine, in addition to the St. Croix. In 1995 I reported *C. amata* from Mt. Carleton P.P. on the basis of an observation but have withdrawn the record since.

Aeschna spp. are spelled **Aeshna**, this is an old error which confused me when I was starting in the interest. Walker's 1912 monograph on the genus explains the issue nicely. Note that *Basiaeschna*, *Nasiaeschna*, etc. are spelled with 'c' as they were described by European workers who used the *Aeschna* version. This spelling is significant when using computer searching functions, both versions should be searched. Of interest in this genus are *A. juncea*, *sitchensis*, *subarctica*, and *septentrionalis*, these being the boreal species which might be found in BSP's montane areas, and *A. mutata* which has been taken in Vermont. *A. juncea* and *septentrionalis* have also not yet been recorded from Maine.

Of the **Enallagma** spp., there are quite a number of species and males could be discriminated in the field on the basis of terminalia, I can send you a little chart I have done up for that purpose if you like. Other Coenagrionidae can look like Bluets, for example *Coeagrion* spp. and *Chromagrion conditum*.

Ophiogomphus aspersus is an interesting species in an interesting genus. This species is widely known though rarely encountered in the region. The species of greatest interest currently are *O. anomalus* and *O. howei*, both of which I would expect from the Park. Another species, *O. colubrinus*, is quite rare this far south and may be present in Maine, I recorded it from Penobscot County in my 1994 paper but have been unable to find the reference since - it may have been a transcription error on my part. I have a terminalia chart for the genus.

Cordulegaster maculatus is very common in southern New Brunswick and in Mt. Carleton P.P.; its congeneric *C. diastatops* is also common away from the larger waters in places such as ditches and very small streams. I have never taken *C. obliqua* but it is known from Maine, *C. sayi* is reported from Maine but that is currently thought to have been an ancient mis-identification.

Somatochlor minor is also a common species (though all of that genus are a delight to encounter, but others of the genus are very interesting. *S. albicincta* has been taken in New Brunswick as far south at 46.55° and should be in BSP, *S. septentrionalis* is not known from Maine but may be present in montane areas. I encountered a river population of *S. cingulata* in Mt. Carleton P.P., it is usually considered an obligate lake species but this is apparently not so. I have a chart of terminalia for this genus as well.

Cordulia shurtleffi is another common species, as is **Libellula julia**, however the latter species probably finds its northern limits somewhere within mid-Maine, so records are of great interest.

Of the list provided by Jean the species of greatest interest relative to Maine was **Gomphus quadricolor**. Were specimens taken? It is not, to my current knowledge, known from the state although I have records from New Hampshire (White & Morse 1973, Howe 1922).

I was very interested to learn that you dealt with treetop ecology in the tropics, because there is a question in this region's Odonate fauna which you might be willing to consider. Exuvia of the genus *Ophiogomphus* are often found in vast numbers along the running waters, but the adults of many species (*anomalus*, *howei*, *asperus*, etc.) are rarely encountered. I suspect that they live most of their imaginal lives at the top of the forest canopy. It would be very interesting to determine if that is the case.

All for now, I hope to hear from you at your convenience.

Cordially,

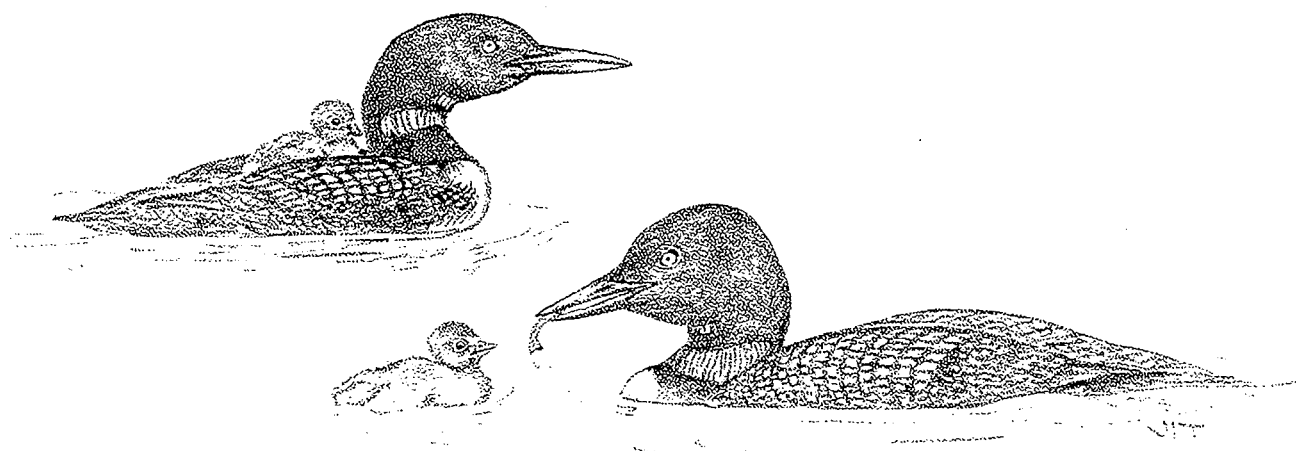
1997 Maine Audubon Loon Count in Baxter State Park

Michell E. Lee
Coordinator

Region 16

July 20, 1996
Date

<u>Lake Name</u>	<u>Randomlake</u>	<u>Code</u>	<u>Acres</u>	<u>Town</u>	<u>Town Adult</u>	<u>Total Chick</u>	<u>No of Known Nest</u>
Abol Pond		2068	70	T2R9	0	0	?
Cecila Pond		0712	8	T3R10	0	0	?
Daicey Pond		0720	38	T3R10	0	0	0
Jackson Pond		0684	23	T3R10	0	0	?
Kidney Pond		716	96	T3R10	3	0	1
Lilly Pad Pond		0718	20	T3R9	0	0	0
Little Rocky Pond		0710	16	T3R10	1	1	1
Lost Pond		0728	30	T3R10	1	0	?
Lower So. Br. Pond		4222	93	T5R9	1	0	0
Lower Togue Pond		2084	384	T2R9	0	0	?
Matagamon		4260	4165	Tr. Brk. Twp.	2	0	2
Nesowadnehunk (No map avail)		600	300	T2R10	0	0	1
Rocky Pond		0708	29	T3R10	1	0	?
Upper So. Br. Pond		4224	84	T5R9	0	0	?
Upper Togue Pond		2104	294	T2R9	5	0	1
Wassataquoik Lake		4212	178	T4R9	2	2	?
Hay Lake (outside Park)				T6R8 Wells	4	0	?

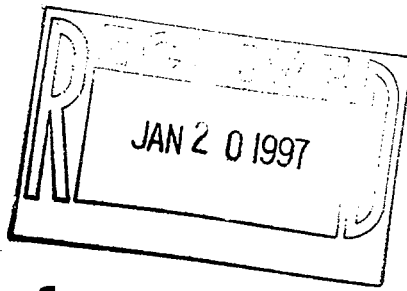


1996 MT. PATROL

Number of completed forms: 23
 Number of patrols by month: July/August
 Number of Class I days: 10
 (excellent weather)
 Number of Class II days: 12
 Number of Class III days: 1

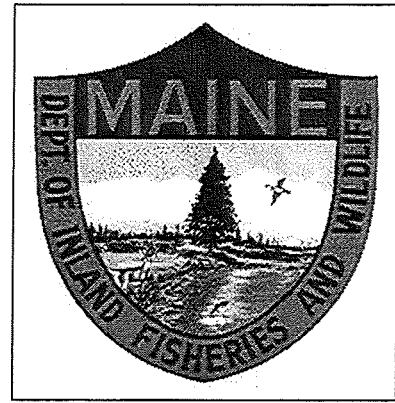
	# of observations made from this point <u>during 23 patrols</u>	Range of #'s <u>of hikes seen</u>	Average # of hikers seen <u>from this point</u>
Baxter Peak	23	2-60	27
South Peak	1	17	0
Knife Edge	2	11-30	21
Pamola Peak	5	1-20	17
Hamlin	4	0	0
Saddle	22	0-25	8
Cathedral	2	0-6	3
Thoreau Spring	18	2-100	13
Caribou Spring	2	3-5	4
Baxter Cut-off	13	2-30	27
Top of Abol Slide	2	5-15	10





Maine Dept of Inland Fisheries & Wildlife

Fisheries Division
Penobscot Region
HC 67 Box 1066
Enfield, Maine 04493



Memorandum

To: *Irvin Caverly, Jr., Park Director*
CC: *Jean Hoekwater, Park Naturalist*
From: *Nels Kramer, Fishery Biologist*
Date: *January 16, 1997*
Subject: *1996 Field activities*

I first I would like to apologize for the lateness of this correspondence. I have been very busy and just now doing what should have been accomplished in November and December. We spent a fair amount of time working in the park this past year, and have a lot to report.

Abol Pond- Fishery evaluation on 7/24/96

Water Quality - Generally excellent, no changes from previous checks.

Netting -- 2 nets set for approximately 24 hours and captured 3 brook trout, 2 of which were released alive after data recorded. Condition of trout OK. Also captured many suckers and bullheads. Very high level of competition is inhibiting brook trout population.

Lower Togue - Fishery evaluation on 7/23/96

Water Quality - Very good, oxygen level good to bottom. pH somewhat low in the 5.5 to 5.8 range in the deeper waters.

Netting - 2 nets set for approximately 24 hours captured 8 splake in the 12 - 14" range. Appear to be growing fairly well. Would expect some legal fish (18"+) by summer 1997.

Lower South Branch - Fishery evaluation on 8/12/96

Water quality - Excellent. Abundant oxygen to 60'.

Netting - 2 nets for approx. 20 hours. 20 brook trout captured, 8 released.

6 of 20 brook trout were hatchery fish stocked spring 1996.

Celia Pond - Fishery evaluation on 8/28/96

Water quality - Oxygen deficiency below 10'. pH good (6.3).

Netting - Netted only 3 brook trout 6-17". Very good condition. Evidence of possible natural reproduction.

Draper Pond - Fishery evaluation on 8/27/96

Water quality - Good overall, no stratification, oxygen to bottom. pH 6.5, up from last year.

Netting - 1 brook trout after about 24 hours of netting. High level of fishing activity.

Trout Brook and tribs. - Electrofished on 8/14/96

Looking for brook trout age and growth information, as well as habitat evaluation. Recruitment limited in some tributaries by beaver activity. Sampled at South Branch at McCarty Field, North Branch at perimeter road, Dwelley Brook at perimeter road, at South Branch crossing, Fowler Brook below crossing, and 3 different sites on the main stem.

Katahdin Stream - Electrofished on 8/28/96

Third year of trout stream monitoring at Katahdin Stream. Very few legal in the section sampled by the perimeter road crossing. Typical trout stream coming off of the mountain, ie. cold and sterile etc.

Dacey Pond - Trapnets 10/17 to 11/4

Purpose was evaluation of wild brook trout regulation change from general law to the present 2 fish 10", only 1 over 12". 118 brook trout captured, all released alive. Also captured redbelly dace and slimy sculpin. Disappointed with the netting here. Low population numbers, or we may have been a little too late in the season. Catches dropped off after the 3rd week in October.

Matagamon Lake - Trapnets from 10/22 to 11/4

Assisted Penobscot Indian Nation fishery personnel setting nets at 6 sites in 1st Lake and the thoroughfare. Purpose was to collect age and growth information on landlocked salmon, brook trout, and lake trout. No longer

stocking Matagamon Lake with landlocked salmon as part of brook trout management plan for the east Branch of the Penobscot. Looking for wild landlocks in our trapnets. 5 salmon, 5 brook trout, and 3 lake trout were collected for contaminant analysis. Caught 22 brook trout, 14 landlocked salmon, and 3 lake trout, and a variety of other species including cusk, white suckers, eels, bullheads, yellow perch.

Sourdnahunk Lake - Trapnets from 10/29 to 11/13

Purpose was to obtain brood fish for hatchery egg taking operation, as well as general population status. Captured 100+ brook trout, 131 pairs for spawning. Over all condition of brook trout captured is improving, proportion of trout 10"+ is increasing. Pre 10" regulation in 1991, 33% of the sample was 10"+. In 1994, this increased to 38% of sample, and in 1996, 49% of sample was 10"+.

cc: P. Bourque
K. Warner

BREEDING BIRD SURVEY

STATE MAINE LAT-LONG 4609-06848
 ROUTE 050 LOCALITY HORSE MTN STRATUM 28

OBSERVER TUDORLM T0179
 DATE RUN 06-24-96

ROUTE TYPE

TIME START 0501 TEMP START 50F WIND START 0 SKY START 4
 FINISH 0933 FINISH 60F FINISH 2 FINISH 2

SPECIES	PAGE TOTALS					TOTAL	STOPS
	PG 1	PG 2	PG 3	PG 4	PG 5		
COMMON LOON		2				2	2
OSPREY		1				1	1
BROAD-WINGED HAWK		1	1			2	2
COMMON SNIPE		1				1	1
RUBY-THR. HUMMINGBIRD			1			1	1
YELLOW-BELL. SAPSUCKER	3	3	5			11	10
HAIRY WOODPECKER		1				1	1
BLACK-BACKED WOODPECKER				1		1	1
YELLOW-SHAFTED FLICKER	1	1	3			5	5
EASTERN WOOD-PEWEE	3					3	2
YELLOW-BELL. FLYCATCHER		1				1	1
ALDER FLYCATCHER					1	1	1
LEAST FLYCATCHER	6	2	1	4	1	14	9
GRT. CRESTED FLYCATCHER		1				1	1
TREE SWALLOW			2			2	1
BARN SWALLOW				8		8	1
GRAY JAY				1		1	1
BLUE JAY				1		1	1
COMMON RAVEN		3				3	2
BLACK-CAPPED CHICKADEE		5	1	3	2	11	7
RED-BREASTED NUTHATCH	1	1		1	1	4	4
WINTER WREN	6	1	1	3		11	10
GOLDEN-CROWNED KINGLET	2			3		5	4
VEERY	3	2	3	2	3	13	11
SWAINSON'S THRUSH	1					1	1
HERMIT THRUSH	2	4	3	2	1	12	11
WOOD THRUSH	1					1	1
AMERICAN ROBIN		1	7	3	5	16	14
CEDAR WAXWING				3		3	1
EUROPEAN STARLING					1	1	1
SOLITARY VIREO	1		1	1	1	4	4
RED-EYED VIREO	9	7	4	4	9	33	26
NASHVILLE WARBLER			2		3	5	5
NORTHERN PARULA	1	6	4	8	6	25	21
CHESTNUT-SIDED WARBLER	4	1		2	3	10	9
MAGNOLIA WARBLER	2					2	1
BLACK-THR. BLUE WARBLER	2	1	5	6		14	12
MYRTLE WARBLER	1	1	2	1	2	7	7
BLACK-TH. GREEN WARBLER	2	5		2	1	10	9
BLACKBURNIAN WARBLER		2	2	2	2	8	7

STATE MAINE
ROUTE 050

PAGE 2

SPECIES	PAGE TOTALS					TOTAL	STOPS
	PG 1	PG 2	PG 3	PG 4	PG 5		
BAY-BREASTED WARBLER				1		1	1
BLACK-&-WHITE WARBLER	1	3	1	1		6	6
AMERICAN REDSTART	5	5	4	3	5	22	16
OVENBIRD	10	10	8	4	2	34	26
NORTHERN WATERTHRUSH		1	1		1	3	3
MOURNING WARBLER			1			1	1
COMMON YELLOWTHROAT	1	1	1	3	1	7	7
CANADA WARBLER	1	2	3	1		7	6
SCARLET TANAGER	1					1	1
ROSE-BREASTED GROSBEAK			1		1	2	2
CHIPPING SPARROW			1	1	3	5	3
WHITE-THROATED SPARROW	2	1	5	11	4	23	19
SLATE-COLORED JUNCO		1		1		2	2
COMMON GRACKLE		2				2	1
PURPLE FINCH	1	1	2	1		5	5
EVENING GROSBEAK			10	3	15	28	6

TOTAL SPECIES = 56

E. ADMINISTRATIVE SERVICES

I PERSONNEL CHANGES

Changes in personnel this year are as follows:

New Hire:

Frank Taylor - CA at Chimney Pond
Eric Flood - Assistant Park Ranger with Trail Crew
Heather lee - Gatehouse Attendant at Togue Pond
Nancy Moxley - Clerk II at the Visitor Center
Dave Chase - Laborer I to the Carpenter
Reggie Moore - Laborer I to the Carpenter
Dan Anderson - CA at So. Branch Pond
Marcia Williamson - CRI at Daicey Pond
Gabriel Williamson - CRI at Daicey Pond

Resignations:

Joan Roberts - CRI Roaring Brook
Jim Hunt - CA at Togue Pond
Eric Flood - Assistant Park Ranger with Trail Crew

AND THE TRANSFERS:

Paul Farrington - CRI at Nesowadnehunk
Jonathan Milne - CRI at Trout Brook Farm
Tom Edes - CRI at Kidney Pond
Jodi Tollett-Browning - CRI Kidney Pond
Dave Chase - CA at Abol
Stewart Guay - CRI Roaring Brook

II TRAINING

June Solo - back woods medical training for Trail Crew, Campground Rangers, Attendants and Gatekeepers

Maine Forest Service training for Campground Rangers and Attendants

Chainsaw Safety Training - for Trail Crew

III CONTRACT SERVICES

Rubbish removal services provided by Dave Condon d/b/a The White Knight

Septic tank pumping was done by John Brown of Patten
 Maintenance services at Park Headquarters were provided by Jason Hafford
 Road construction in the SFMA was completed by Gerald Pelletier
 Forest Management services were provided by John Mills
 Firewood bundling done by Wesley Cunningham
 Michelle Lee - assistant to Naturalist
 Eight SCA - trail
 Two SCA - Naturalist
 Karen Bradford - Visitor Center at Togue Pond

IV SUPPLY

Supply has had a busy year with purchasing and dispensing requested materials.
 Storekeeper I Rosemary James has been keeping up with her inventory and doing budget tracking when requested.

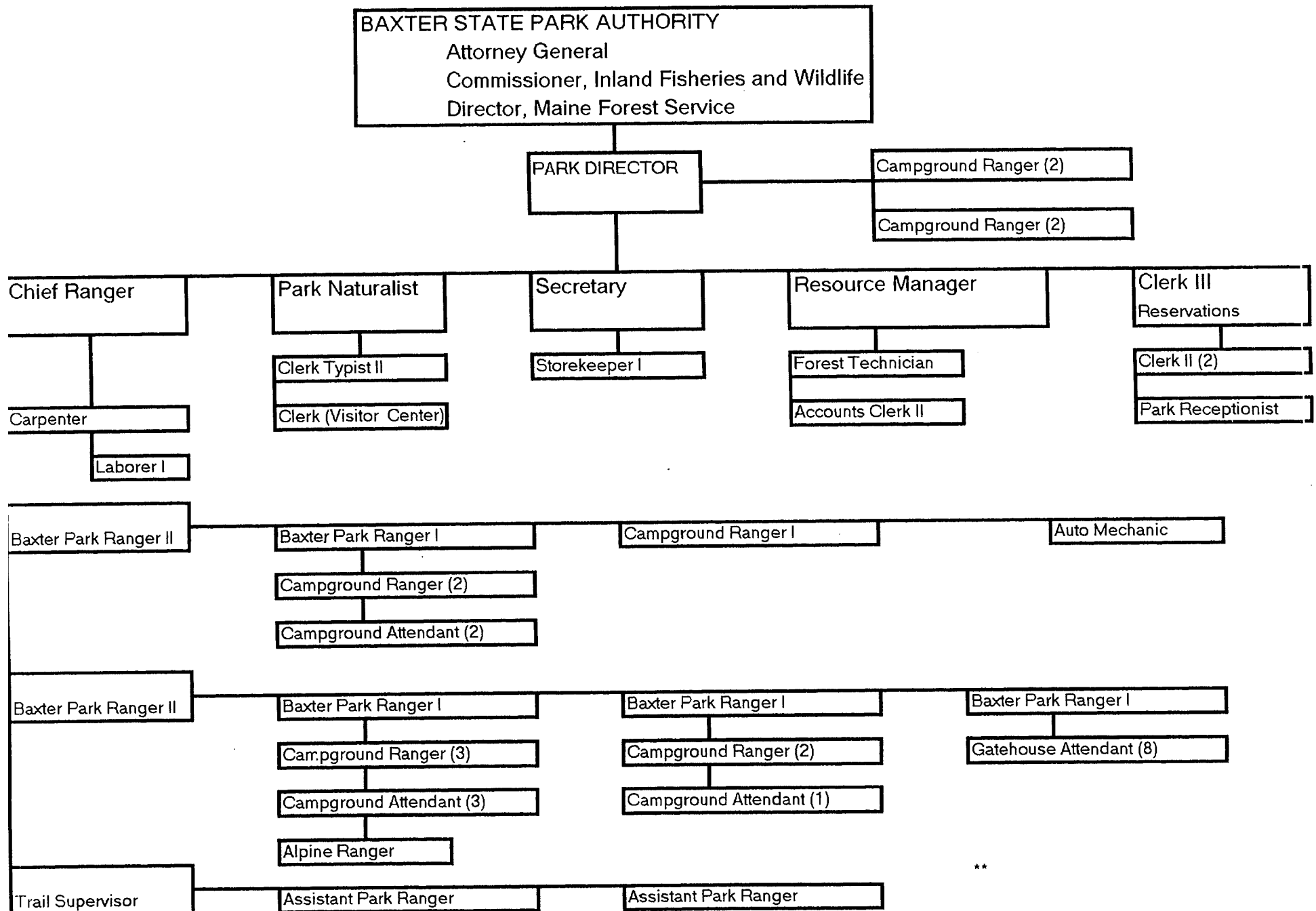
V DONATION ACCOUNT

The closing balance of the Donation Account on January 31, 1996 was \$930.51.
 Purchases made during 1996 were:

Two 169 Old Town Discovery Canoes for	\$404.00
Photographic materials for Naturalist	\$700.00

The list of donors and donations are as follows:

Charles McComb	\$ 10.00
Jim Garland	245.00
Through reservations	55.00
Through reservations	42.00
Michael J. Perry	45.00
Mark A. Sairio	21.00
David DeLuca	45.00
Through reservations	24.00
Through reservations	31.00
John & Susan Murray	25.00
Ray Rinaldi	114.00
Through reservations	26.00
Mark Clements	20.00
Penobscot Salmon Club	50.00
Katahdin Medical & Philosophical Society	305.00
James & Dianne Walls	70.00



YEAR-ROUND POSITIONS - 1996

<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. MacPerson Browning	Headquarters, Mlkt.
BSP Naturalist 9214-0947	Jean Hoekwater	Headquarters, Mlkt.
Sec. to Director 0005-0969	Roxanna McLean	Headquarters, Mlkt.
Acct. Clerk II 0312-1081	Judith A. Hafford	Headquarters, Mlkt.
Clerk Typist II 0012-0871	S. Jean Howes	Headquarters, Mlkt.
Storekeeper I 0231-0927	Rosemary James	Headquarters, Mlkt.
Clerk III 0003-0091	Janice T. Caverly	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	Bernard Crabtree	Field
9434-0942	Charlie Kenney	Field

SEASONAL POSITIONS - 1996

<u>Title/Position Number</u>	<u>Name/Location</u>	<u>Weeks</u>	<u>Start</u>	<u>End</u>
CAMPGROUND RANGERS				
9425-0631	Paul Farrington - Nesowadnehunk	20	6-2	10-1
9425-0021	Brendan Curran - Russell Pond	24	5-5	10-1
9425-0221	Keith Smith - So. Branch Pond	24	5-5	10-1
9425-0351	Greg Hamer - Chimney Pond	24	5-5	10-1
9425-0641	Stewart Guay - Roaring Brook	24	5-5	10-1
9425-0601	Brian Johnston - Abol	24	5-5	10-1
9425-0391	Bruce White - Katahdin Stream	24	5-5	10-1
9425-0611	Jonathan Milne - Trout Brook Farm	20	6-2	10-1
9425-0983	Jodi Tollett-Browning - Kidney Pond	26	5-13	11-9
9425-0982	Tom Edes - Kidney Pond	26	5-13	11-9
9425-0980	Marcia Williamson - Daicey Pond	26	5-5	11-2
9425-0981	Gabe Williamson - Daicey Pond	26	5-5	11-2
CAMPGROUND ATTENDANTS				
9424-0841	Frank Taylor - Chimney Pond	18	6-2	10-5
9424-0741	Carter Smith - Roaring Brook	18	6-2	10-5
9424-0922	Dan Anderson - So. Branch Pond	18	6-2	10-5
9424-0831	Neal Sleeper - Russell Pond	14	5-26	8-3
9424-0421	Troy Dow - Katahdin Stream	18	6-2	10-5
9424-0461	Dave Chase - Abol	14	5-19	8-2
9424-0978	Jim Hunt - Togue Pond	14	5-19	8-2
GATEHOUSE ATTENDANTS				
9422-0171	Jennifer Hall - Togue Pond	23	5-12	10-1
9422-0511	Joanna Thorpe - Togue Pond	23	5-12	10-1
9422-0361	Dana Miller - Matagamon	23*	5-12	10-1
9422-0441	Phil Hill - Matagamon	23	5-12	10-1
9422-0201	Ted Hanson - Matagamon	23*	5-12	10-1
9422-0501	Diane Freelove - Togue Pond	23	5-12	10-1
9422-0531	John Doe - Togue Pond	20	5-19	10-5
9422-0541	Heather Lee - Togue Pond	12	6-2	8-2
TRAIL CREW				
9435-0141	Lester Kenway - Trail Crew Super.	40	4-28	2-1
9209-0940	Nikolas Rogers - Assistant Pk. Rgr.	14	5-12	8-1
9209-0984	Eric Flood - Assistant Pk. Rgr.	14	5-12	8-1
RESERVATION OFFICE				
0002-0731	Joan King - Clerk II	40	1-2	10-5
0002-0941	Gladys Hanson - Clerk II	40	1-2	10-5
9210-0967	Mary-Ellen Bell - Park Receptionist	40	1-2	10-5
VISITOR CENTER				
0002-0977	Nancy Moxley - Clerk II	20	5-26	10-1
8001-0965	Reggie Moore - Laborer I	14	5-28	8-3

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

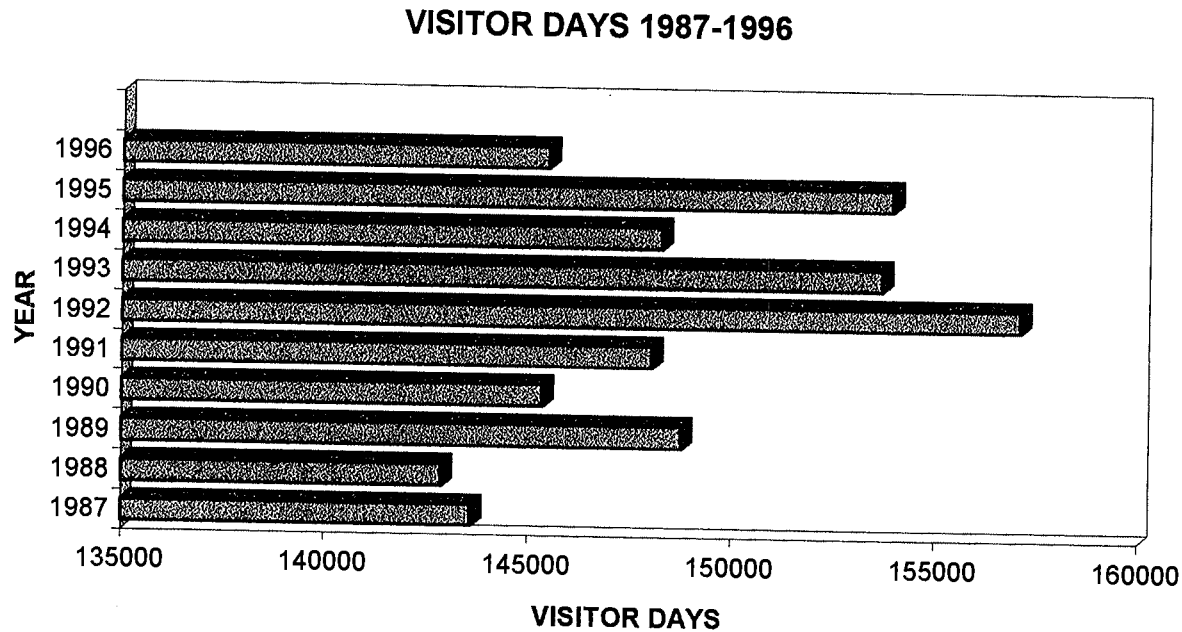
Revised 6/7/

COMPARATIVE STATISTICS - VISITOR DAYS 1987 - 1996

VISITOR DAY* STATISTICS:	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
TOTAL SUMMER VISITOR DAYS	141468	139798	145667	142358	145046	154619	152133	146148	152281	143555
TOTAL WINTER VISITOR DAYS	2119	3070	3109	2992	2992	2489	1554	2124	1660	1913
TOTAL PARK VISITOR DAYS	143587	142868	148776	145350	148038	157108	153687	148272	153941	145468

* 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

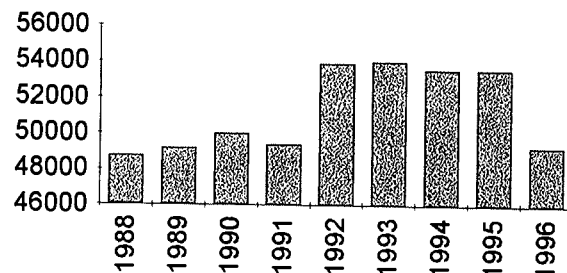
1996 GATE COUNTS - PEOPLE PER MONTH

[illegible]

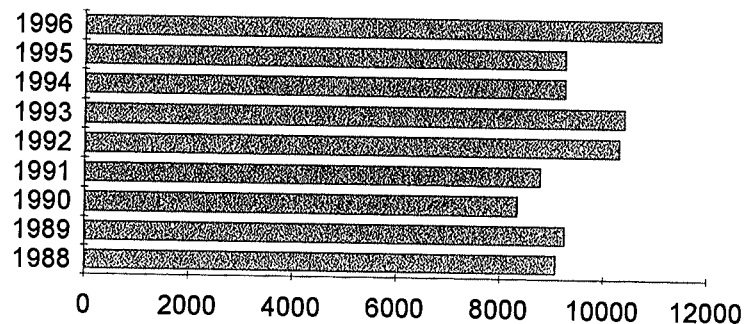
BAXTER STATE PARK
1996 GATE COUNTS - PEOPLE PER GATE

	CAMPER S			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	787	509	1296	1615	641	2256	13	20	33	21	3606	
June	1769	1517	3286	3407	1758	5165	208	118	326	43	8820	
July	2673	2501	5174	5426	4562	9988	458	428	886	76	16124	
August	2813	2635	5448	7000	7323	14323	411	398	809	82	20662	
September	1794	1560	3354	3590	2881	6471	297	343	640	39	10504	
October	614	672	1286	2286	1625	3911	192	163	355	15	5567	
TOGUE TOTAL	10450	9394	19844	23324	18790	42114	1579	1470	3049	276	65283	84%
MATAGAMON GATE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
May	284	94	378	485	120	605	0	0	0	2	985	
June	417	163	580	698	251	949	28	16	44	1	1574	
July	953	397	1350	1161	562	1723	83	75	158	13	3244	
August	886	575	1461	1296	838	2134	73	59	132	21	3748	
September	228	255	543	632	459	1091	58	18	76	0	1710	
October	111	95	206	384	220	604	8	7	15	0	825	
MATAGAMON TOTAL	2879	1579	4518	4656	2450	7106	250	175	425	37	12086	16%
TOTAL GATES	13329	10973	24362	27980	21240	49220	1829	1645	3474	313	77369	

**Day Use - Summer Season
1988-96**



Camper Days - Group Areas 1988-96



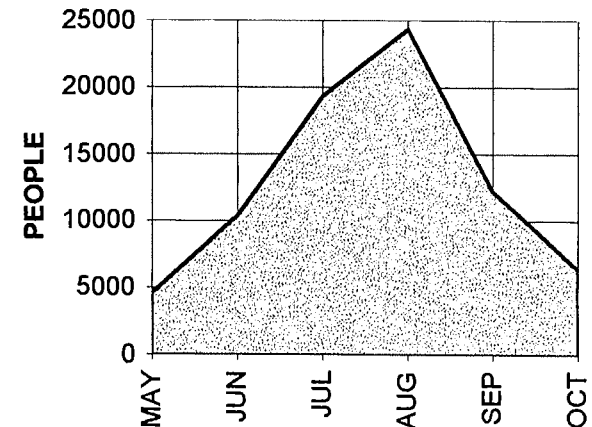
BAJAXTER STATE PARK

1996 GATE COUNTS -VEHICLES PER MONTH

	VEHICLES			% OF	TOTAL	AVE.
	RES	NON-RES	TOTAL	TOTAL	PEOPLE/	PEOPLE/
				VEHICLES	MONTH**	VEHICLE
MAY						
ogue Pond	899	785	1684			
Matagamon	289	195	484			
otal MAY	1188	980	2168	7	4591	2.1
JUNE						
ogue Pond	1864	1938	3802			
Matagamon	420	376	796			
otal JUNE	2284	2314	4598	14	10394	2.3
JULY						
ogue Pond	2640	3326	5966			
Matagamon	715	576	1291			
otal JULY	3355	3902	7257	23	19368	2.7
AUGUST						
ogue Pond	3283	4409	7692			
Matagamon	788	774	1562			
otal AUGUST	4071	5183	9254	29	24410	2.6
SEPTEMBER						
ogue Pond	2018	2634	4652			
Matagamon	373	558	931			
otal SEPTEMBER	2391	3192	5583	18	12214	2.2
OCTOBER						
ogue Pond	1151	1304	2455			
Matagamon	201	254	455			
otal OCTOBER	1352	1558	2910	9	6392	2.2
TOTALS BY	14641	17129				
USE CATAGORY			31770	100	77369	2.4
% BY CATAGORY	46%	54%				

* See 1996 Gate Counts - People per Month

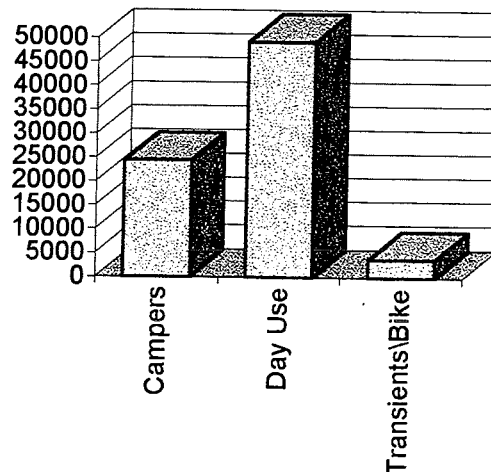
PEOPLE PER MONTH-1996



BAXTER STATE PARK
1996 GATE COUNTS -VEHICLES PER GATE

	VEHICLES			% OF
	RES	NON-RES	TOTAL	TOTAL
TOGUE POND GATE				
May	899	785	1684	
June	1864	1938	3802	
July	2640	3326	5966	
August	3283	4409	7692	
September	2018	2634	4652	
October	1151	1304	2455	
TOGUE TOTAL	11855	14396	26251	83
MATAGAMON GATE				
May	289	195	484	
June	420	376	796	
July	715	576	1291	
August	788	774	1562	
September	373	558	931	
October	201	254	455	
MATAGAMON TOTAL	2786	2733	5519	17
TOTAL GATES	14641	17129	31770	100

GATE HEADCOUNTS BY USE TYPE
1996



BAXTER STATE PARK

TRAIL USE SUMMARY - 1996

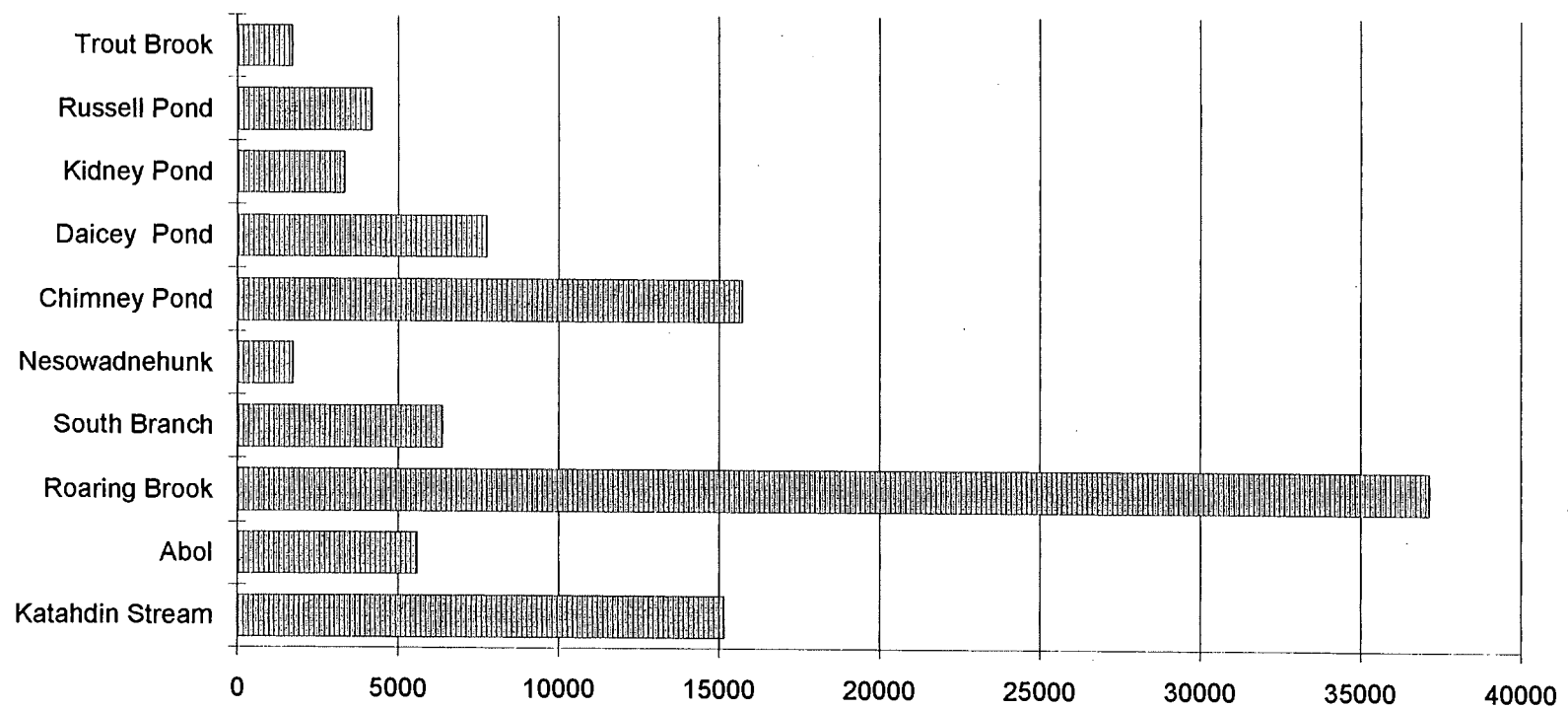
Registered hikes per person per trail

TRAIL USE-UNITS BY MONTH

TRAIL NAME	MAY	JUN	JUL	AUG	SEPT.	OCT	TRAIL TOTAL	AREA TOTAL
KATAHDIN STREAM:								
Hunt	650	1309	2897	3885	1842	1048	11631	
Owl	66	121	263	387	145	77	1059	
Grassy Pond	83	179	424	595	341	114	1736	
O.J.I.	43	37	98	149	137	29	493	
A.T. South	26	81	55	90	0	0	252	
KATAHDIN TOTALS	868	1727	3737	5106	2465	1268		15171
ABOL:								
Abol Trail	32	527	1199	1817	892	408	5303	
Abol Falls	9	109	181	273	123	44	951	
ABOL TOTALS	41	636	1380	2090	1015	452		5614
ROARING BROOK:								
Chimney	45	2852	4059	5057	2953	1212	16178	
Helon Taylor	3	613	961	1706	1232	440	4955	
Sandy Stream	870	1695	2823	3042	1791	1057	11278	
So. Turner	463	328	467	394	338	103	2093	
Russell Pond	93	354	387	441	407	178	1860	
Nature Trail	46	137	177	229	148	62	799	
RRG BK TOTALS	1520	5979	8874	10869	6869	3052		37163
SOUTH BRANCH POND:								
So. Branch Falls	11	45	102	58	28	19	263	
Ledges	15	14	88	86	27	6	236	
Howe Brook	17	91	234	251	128	29	750	
N. Traveler	29	115	289	356	151	88	1028	
Center Ridge	16	10	57	95	31	8	217	
So. Br. Mtn.	9	55	99	160	89	31	443	
Pogy Notch	150	275	878	991	479	210	2983	
Burnt Mtn.*	0	9	64	97	44	8	222	
Mid. Fowl. & Other	15	8	40	33	35	6	137	
Webster Lake	0	5	33	40	18	14	110	
SO. BRNCH. TOTALS	262	627	1884	2167	1030	419		6389
NESOWADNEHUNK:								
Double Top	Closed	57	277	430	164	66	994	
Marston	Closed	0	135	234	80	55	504	
Wass. Lake Trail	Closed	7	25	104	33	0	169	
Dwelley Trail	Closed	0	41	17	25	5	88	
NESO. TOTALS	0	64	478	785	302	126		1755
continued...								

Registered hikes per person per trail, continued								
TRAIL NAME	MAY	JUN	JUL	AUG	SEPT.	OCT	TRAIL TOTAL	AREA TOTAL
CHIMNEY POND:								
Dudley	Closed	449	767	929	380	166	2691	
Cathedral	Closed	593	953	1453	596	292	3887	
Saddle	Closed	574	2076	2591	1470	536	7247	
Hamlin	Closed	169	153	147	207	114	790	
N. Basin	Closed	167	173	153	267	99	859	
N. Peaks	Closed	1	2	18	22	6	49	
N.W. Basin	Closed	8	51	70	87	8	224	
CHIMNEY TOTALS	0	1961	4175	5361	3029	1221		15747
DAICEY POND:								
Niagara Falls	310	644	1362	1537	685	266	4804	
D.P. Nature Trail	66	98	156	181	146	64	711	
Lost Pond Trail	18	40	57	69	38	15	237	
Sentinel Mt. Trail	10	19	16	32	28	7	112	
A.T. to Katahdin	16	23	61	151	139	98	488	
Daicey to Grassy	15	99	133	130	104	65	546	
Daicey to Elbow	21	144	22	196	157	94	634	
Daicey to Kidney	18	42	44	69	54	17	244	
DAICEY TOTALS	474	1109	1851	2365	1351	626		7776
KIDNEY POND:								
Double Top	62	121	175	438	257	104	1157	
Sentinel Mtn.	55	57	279	384	179	127	1081	
Rocky Pond	14	59	89	134	76	25	397	
Draper Pond	0	8	17	35	33	2	95	
Kid. Pond Circuit	3	18	91	112	64	36	324	
Celia & Jackson	2	17	23	43	32	14	131	
Windy Pitch/Niagara/ Lily	0	27	24	84	31	0	166	
KIDNEY TOTALS	136	307	698	1230	672	308		3351
RUSSELL POND:								
Russell Pond Trail	35	208	176	250	174	107	950	
Wass. Stream Trail	33	182	171	249	128	71	834	
Pogy Notch Trail	99	52	122	81	51	45	450	
Wass. Lake Trail	67	246	246	272	120	78	1029	
N.W. Basin Trail	9	36	78	95	77	45	340	
N. Peaks Trail	0	0	4	12	16	7	39	
Grand Falls Trail	22	52	94	90	31	12	301	
Lookout Trail	18	52	52	77	29	14	242	
RUSSELL TOTALS	283	828	943	1126	626	379		4185
TROUT BROOK FARM:								
Horse Mountain	Closed	47	263	308	86	24	728	
Littlefield Pond	Closed	10	16	51	27	11	115	
High/Long Pond	Closed	1	23	53	9	9	95	
Fowler Pond	Closed	5	62	111	58	3	239	
Freezeout	Closed	12	47	82	32	6	179	
Trout Brook Mtn.	Closed	31	110	163	52	11	367	
TROUT BROOK TOTALS	0	106	521	768	264	64		1723
=====	=====	=====	=====	=====	=====	=====	=====	=====
TOTALS BY MONTH	3584	13344	24541	31867	17623	7915		98874

REGISTERED HIKES BY AREA - 1996



BAXTER STATE PARK
CAMPGROUND VACANCY RATES *
1996

	# SITE-DAYS PER SEASON	# VACANT SITE	% 1996 VACANCY
CAMPGROUNDS:			
Roaring Brook	3234	454	14%
Abol	3234	976	30%
Katahdin Stream	3542	774	22%
Daicey Pond	1694	180	11%
Kidney Pond	1740	291	17%
Nesowadnehunk	2461	923	38%
South Branch	4928	1788	36%
Chimney Pond	1233	88	7%
Russell Pond	1232	316	26%
Trout Brook Farm	2055	1325	64%
Campground Totals	24755	7115	29%

OUTLYING SITES:

Webster Area	1781	1337	75%
Davis Pond	137	47	34%
Fowler Area	1096	938	86%
South Branch	462	145	31%
Wass. Area	462	122	26%
Outlying Site Totals	4546	2589	57%

* 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

1996

CAMPGROUNDS	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	SUMMER TOTAL	% OF SUMMER CAMPER DAY	DEC.	JAN.	FEB.	MAR.	WINTER TOTAL	% OF WINTER CAMPER DAY	ANNUAL CAMP-DAY TOTAL	% OF PARK TOTAL
Roaring Brook	504	1364	1745	2007	1367	569	7556	15%	19	56	228	258	561	29%	8117	15%
Abol	313	670	1555	1856	990	360	5744	11%	CLOSED	0	16	0	0	0%	5744	11%
Katahdin Stream	551	1019	1814	1890	1042	512	6828	13%	CLOSED	10	26	0	36	2%	6864	13%
Daicey Pond	323	666	979	967	824	390	4149	8%	CLOSED	39	45	35	119	6%	4268	8%
Kidney Pond	199	605	1018	1205	930	440	4397	9%	CLOSED	4	30	40	74	4%	4471	8%
Nesowadnehunk	CLOSED	270	1427	1753	462	151	4063	8%	CLOSED	14	10	5	29	2%	4092	8%
Trout Brook Farm	CLOSED	166	667	1219	80	25	2157	4%	CLOSED	0	47	35	82	4%	2239	4%
S. Branch Pond	373	972	2795	3053	1466	482	9141	18%	CLOSED	4	71	95	170	9%	9311	18%
Russell Pond	215	489	696	763	515	223	2901	6%	CLOSED	4	17	28	49	3%	2950	6%
Chimney Pond	CLOSED	739	981	1058	819	371	3968	8%	CLOSED	108	271	414	793	41%	4761	9%
Campground Total	2478	6960	13677	15771	8495	3523	50904	76%	19	239	761	910	1913	100%	52817	77%
GROUP AREAS																
Avalanche Field	125	624	768	1023	492	120	3152	26%							3152	26%
Foster Field	230	535	902	834	346	91	2938	24%							2938	24%
Nesowadnehunk	CLOSED	229	550	826	140	58	1803	15%	C L O S E D						1803	15%
Trout Brook Farm	CLOSED	243	713	716	12	40	1724	14%							1724	14%
Abol Scout Area	116	546	612	799	234	93	2400	20%							2400	20%
Group Area Total	471	2177	3545	4198	1224	402	12017	18%							12017	17%
OUTLYING SITES																
S. Branch Pond	60	74	225	262	149	86	856	22%							856	22%
Fowler	0	83	110	163	49	7	412	10%							412	10%
Webster	0	119	202	319	111	14	765	19%							765	19%
AT Shelter	16	90	125	236	146	42	655	17%	C L O S E D						655	17%
Davis	0	18	46	47	60	21	192	5%							192	5%
Wassataquoik Area	32	136	176	222	171	91	828	21%							828	21%
Mat.High Adv.	0	60	145	40	0	0	245	6%							1018	8%
Outlying Total	108	580	1029	1289	686	261	3953	6%							3953	6%
TOT. CAMPER DAYS	3057	9717	18251	21258	10405	4186	66874	100%	19	239	761	910	1913	100%	68787	100%
% OF PARK TOTAL	4%	14%	27%	31%	15%	6%	97%		0%	0%	1%	1%	3%		100%	

BAXTER STATE PARK
COMPARATIVE STATISTICS - CAMPER DAYS
 1988 - 1996

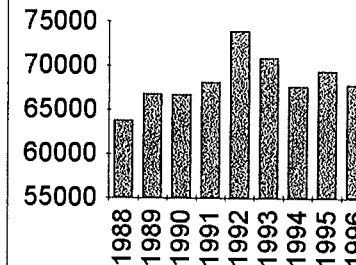
	1988	1989	1990	1991	1992	1993	1994	1995	1996
CAMPGROUNDS:									
Roaring Brook	7535	7653	7406	7664	10769	7450	7527	7660	7556
Abol	5621	5691	5381	5601	5623	5707	5493	4236	5744
Katahdin Stream	7382	7743	7223	7353	7654	7227	7148	7372	6828
Daicey Pond	4871	4636	5138	4842	4428	5681	4072	4400	4149
Kidney Pond	-	2179	3315	3826	4565	4654	4595	4934	4397
Nesowadnehunk	4602	4223	4695	4425	4528	4631	3594	4294	4063
Trout Brook Farm	2710	3077	2977	2650	2717	2537	2440	2395	2157
South Branch Pond	9331	9380	9251	9610	9900	9587	8973	9595	9141
Russell Pond	3028	2881	2961	2968	3029	2900	2959	2959	2901
Chimney Pond	3756	3888	3812	3849	3973	3794	3966	3971	3968
TOTAL	48836	51351	52159	52788	57186	54168	50767	51816	50904
GROUP AREAS:									
Avalanche Field	3008	2968	3116	3110	3093	3033	2654	3210	3152
Foster Field	3323	2627	2564	2690	2845	2772	2346	2824	2938
Nesowadnehunk	1288	1959	1501	1667	1722	2124	2026	1943	1803
Trout Brook Farm	1483	1714	1169	1331	1156	987	999	1127	1724
Abol Scout Area	-	-	-	-	1500	1500	1243	1440	2400
TOTAL	9102	9268	8350	8798	10316	10416	9268	10544	12017
OUTLYING SITES:									
South Branch Area	501	565	678	649	803	758	820	868	856
Fowler Area	1005	1003	796	734	659	478	650	462	412
Webster Area	1491	1373	1315	1181	1514	1137	1259	1140	765
AT Shelter	171	393	386	484	414	887	626	839	655
Davis Pond Area	241	251	271	230	250	244	235	285	192
Wassataquoik Area	864	829	868	848	950	953	968	813	828
Matagamon High Adventure	-	-	-	-	-	-	1018	572	245
TOTAL	4273	4414	4314	4126	4590	4457	5576	4979	3953
TOTAL SUMMER CAMPER DAYS	62211	65033	64823	65712	72092	69041	65611	67339	66874
WINTER CAMPER DAYS	1622	1810	1895	2435	1868	1868	2124	2124	1913
TOTAL ANNUAL CAMPER DAYS	63833	66843	66718	68147	73960	70909	67735	69463	68787

TOTAL CAMPER DAYS (66,874)

TOTAL CAMPERS (24,362)

2.74 DAYS PER CAMPER (Summer)

**Camping Use
Trends 1988-96**



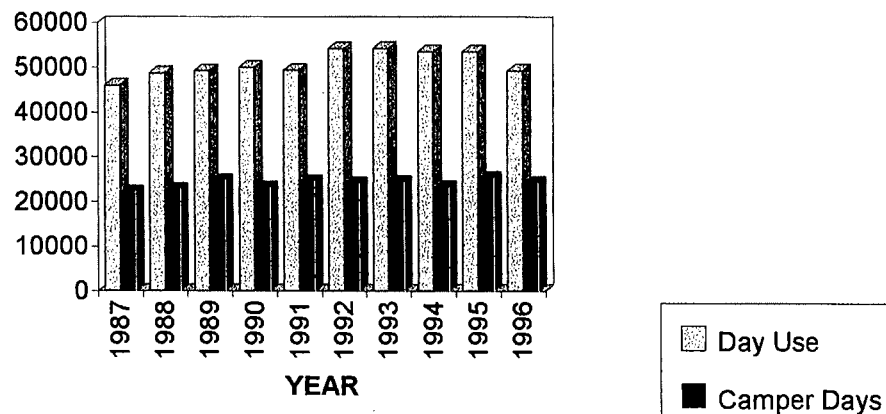
BAXTER STATE PARK COMPARATIVE STATISTICS 1987 - 1996

GATEHOUSE STATISTICS:

PERSONS	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Resident	50612	46908	50440	46913	47306	48110	49673	47918	48361	43658
Non-resident	31415	30679	30194	30622	32028	34417	33419	32619	34783	33925
TOTAL	82027	77587	80634	77535	79334	82527	83092	80537	83144	77583
Campers	22290	22877	24869	23205	24755	24197	24508	23362	25496	24362
Day Use	45980	48746	49195	50012	49402	54208	54335	53579	53591	49313
Transient	13013	5964	6570	4318	5177	4122	4249	3202	3776	3595
Walk/Bike	-	-	-	-	-	-	-	394	281	313
K.P. Lodge	744	-	-	-	-	-	-	-	-	-
TOTAL	81283	77587	80634	77535	79334	82527	83092	80537	83144	77583

VEHICLES	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Togue Pond	22387	21430	22094	22523	23436	27763	28055	26417	28294	26251
Matagamon	4740	4584	4797	4858	4755	4783	4895	4920	5660	5519
West Gate	2221	1484	1585	-	-	-	-	-	-	-
TOTAL	29348	27498	28476	27381	28191	32546	32950	31337	33954	31770

GATECOUNTS 1987-1996

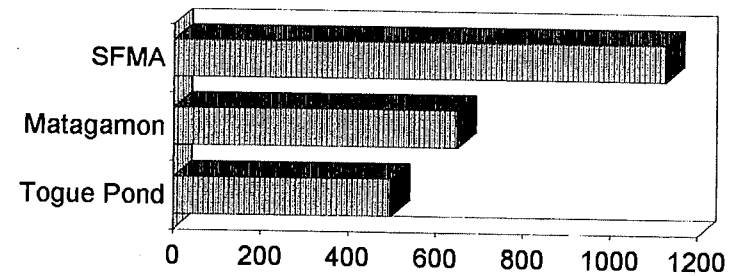


**BAXTER STATE PARK
GATE SELF-REGISTRATION OCT.- NOV. 1996**

OFF SEASON STATISTICS:

	PEOPLE PER MONTH			%
	OCT.	NOV.		BY GATE
Togue Pond	254	244	498	22%
Matagamon	234	416	650	29%
**SFMA	236	890	1126	50%
Total	724	1660	2274	100%

**GATE SELF-REGISTRATION OCT-
NOV. 1996**



F. FINANCIAL REPORT

BAXTER STATE PARK
STATEMENT OF REVENUE AND EXPENDITURES
FISCAL YEAR ENDING JUNE 30, 1996

BALANCE FORWARD JULY 1, 1995

\$183,165.95

REVENUE

PARK OPERATIONS

Recreational Use Fees	\$565,949.15
Transfer Fees	7,767.00
Entrance Fees	92,450.00
Miscellaneous Services	25,069.00
Sale of Maps, Books etc.	20,324.45
Sale of Forest Products	139,788.60
Foreign Exchange Differential	(36.74)
Duplicate Fees	(7,181.50)
Overpayments Refunded	(5,971.80)

NET REVENUE FROM OPERATIONS 838,158.16

TRUST FUNDS

Boston Safe Deposit and Trust	1,015,000.00
State-Held Trust	80,000.00

NET REVENUE FROM TRUSTS 1,095,000.00

MISCELLANEOUS REVENUE

Interest on Investment	6,713.21
Special Licenses and Leases	83.00
Sale of Equipment	3,315.00
Miscellaneous Income	(28.00)

MISCELLANEOUS REVENUE 10,083.21

TOTAL REVENUE ALL SOURCES 1,943,241.37

Adjustment to Balance Forward 4,794.00

TOTAL REVENUE AVAILABLE

\$1,948,035.37

EXPENDITURES

PERSONAL SERVICES

Salaries, permanent	544,729.68
Salaries, seasonal	261,522.11
Overtime/Differential/Retro	46,904.53
Retirement Contribution	165,557.59
Other Benefits	149,668.97

TOTAL PERSONAL SERVICES 1,168,382.88

ALL OTHER

Contractual Services	234,816.29
Park Operations - All Groups	394,131.20
Sta-Cap Charges	11,302.10

TOTAL ALL OTHER 640,249.59

CAPITAL

Buildings	59,410.55
Equipment	98,559.81
Purchase	0.00

TOTAL CAPITAL 157,970.36

TOTAL EXPENDITURES

\$1,966,602.83

BALANCE FORWARD JUNE 30, 1995

\$164,598.49

G. DIRECTOR'S CONCLUDING REMARKS

DIRECTOR'S CONCLUDING REMARKS

I am of the belief that an Annual Report is not complete simply by reporting and bowing good day, but rather spending some time in reflecting on objectives to be accomplished in the year ahead. With the successful completion of negotiations, the Park will attain 2,669 acres between the West Branch of the Penobscot River and the current Park boundary. If my optimism prevails, we will spend much time in 1997 with a sub-committee from the Advisory to identify more than one dozen requests for uses. At the offset, we need to consider the provisions of inholdings, whether the lands are used for multiple use or solely according to guidelines of the sanctuary provisions. Multiple use will be the easy way to resolve issues because it caters to special interest. Sanctuary provisions are more difficult to deal with because they comply with Governor Baxter's original objectives, to create a game preserve and limited recreational opportunities. However when one or the other of those uses is identified we then must discuss all other interests compatible with the principle concept.

In recent years we at BSP have become increasingly concerned about the width of the tote road. Therefore it is important that we develop a plan and procedure in conjunction with DOT which will restrict the width of the tote road to 16' and appropriate turnouts as necessary so as not to hamper the flow of traffic, but also not to create additional parking near trailheads which could circumvent day use parking capabilities near popular areas.

In preparing for the next revision of the BSP Management Plan (1999), I need to closely evaluate BSP maintenance staff use of motorized units within the "wilderness zone." This zone needs to be more clearly identified. According to our current plan, there are six zones. Approximately 81% of the Park is zoned as wild lands. Nationwide statistics indicate that motorized units such as weedwackers, chainsaws, etc., are accepted in areas such as BSP in all zones excepting wilderness or wildlife zones. Therefore in 1998, we will attempt to reduce these activities to every degree possible until we have evaluated the overall policy in the next Management Plan revision.

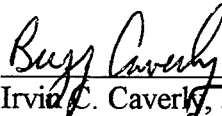
Staff training through work retreats are a goal to accomplish which I believe can be beneficial to a more informed and professional workforce, and thus I will attempt to achieve this in 1997.

Renovations at Park Headquarters were relatively completed in 1996. By early fall in 1997, we hope to have a conference room facility available which will allow us adequate space to hold Authority/Advisory meetings, staff meetings and to conduct Park business. Reference to other uses of the building, I hope that we can implement a procedure which serves as a good neighbor policy, thus assisting other agency and community needs by providing the building as long as those functions leave it as they find it and arrange for security prior to leaving the building.

Thanks to the efforts of employees involved, Daicey and Kidney Pond Camps will be at the complete staffing levels (five positions) by the end of 1997. The transition from contract labor to personal services has been time consuming, but extremely effective. My thanks to each of the incumbents who has brought the Kidney Pond Plan to its ultimate goals during 1997.

And in conclusion, my goal is to move up the completion dates of our Annual Report. I am asking all Administrative Staff members to complete their paperwork and submit to me for the next year's report no later than March 1 in each of the following calendar years. Our associates and the general public look forward to receiving their report, and I believe we have an obligation to providing it on a more timely basis. As each year passes, I have a deeper appreciation for our responsibility and vision. Nowhere in our country is there a resource equivalent to the wilderness park that Governor Baxter gave to his fellow people. It is unique because one man purchased it and then gave it away, because he provided the deeds of trust or the tools necessary to manage it, because he funded it with adequate trust funds and because it is administered with an Authority unequal to any similar area within our land, and finally because he did it in order to say thank you to Maine people for allowing him to serve as their Legislator, Senator and, ultimately, their Chief Executive. On December 4, 1968 he wrote to me the following words, "I expect to be home all winter and keep in touch with you. You have a most important position. I shall write you and I want you to write me. We are partners in this project. Please tell your associates that I depend on you and them to make the Park successful." What an inspiring message, and one that should never be underestimated in value.

Sincerely,


Irvin C. Caverly, Jr.
Director

H. APPENDIX

BAXTER STATE PARK
AUTHORITY/ADVISORY LISTING
Effective 5/96

<u>AUTHORITY MEMBERS:</u>	<u>REAPPOINTMENT YEAR</u>	<u>ADDRESS:</u>	<u>TELE- PHONE</u>
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