



April 22, 2016

**VIA ELECTRONIC FILING**

Ms. Kimberly D. Bose  
Secretary  
Federal Energy Regulatory Commission  
888 First Street, NE  
Washington, DC 20426

Re: FirstLight Hydro Generating Company, FERC Project Nos. 2485 and 1889  
Responses to Connecticut River Watershed Council comment letter dated March 25, 2016 and  
Mr. Karl Meyer comment letter dated March 27, 2016

Dear Secretary Bose:

Pursuant to the process plan and schedule issued on September 14, 2015 by the Federal Energy Regulatory Commission (FERC or Commission) (Process Plan), on March 1, 2016, FirstLight Hydro Generating Company (FirstLight) filed 13 study reports for the relicensing of its Turners Falls Hydroelectric Project (FERC No. 1889) and Northfield Mountain Pumped Storage Project (FERC No. 2485). Pursuant to Process Plan, on March 16, 2016, FirstLight held a meeting to discuss the study reports filed on March 1, 2016.

On March 25, 2016, the Connecticut River Watershed Council (CRWC) sent a letter to FirstLight (and filed it with FERC) requesting supplemental data on five studies previously filed on March 1, 2016. Similarly, on March 28, 2016, Mr. Karl Meyer sent a letter to FirstLight (and filed it with FERC) requesting supplemental data on one study previously filed on March 1, 2016. The purpose of this letter is to respond to requests for further information from these parties. CRWC requested that FirstLight provide the information by April 22, 2016.

Under the Commission's Process Plan, stakeholders may file disagreements or requests to amend the Commission-approved study plan by April 30, 2016, and FirstLight may respond to any disagreements or requests to amend the study plan by May 30, 2016. Any request for modification of an approved study or for a new study must meet the criteria set forth in 18 CFR §§ 5.15(d) and (e) of the Commission's regulations, respectively. Also, 18 CFR § 5.15(b) states that "the potential applicant will provide documentation of study results" upon request of a participant. However, there is no provision in the Commission's Integrated Licensing Process regulations for the submission of interrogatories or general document requests.

FirstLight regards some of the information requested by CRWC and Mr. Meyer as "documentation of study results" and is herewith providing that information. However, FirstLight regards much of the information requested as additional information exceeding what is required by the Commission's approved study plan. Where FirstLight nonetheless can provide that information with reasonable effort, as indicated in its responses below (Attachment A and B), FirstLight will do so in its May 30 filing. In other cases, FirstLight believes that CRWC and Mr. Meyer need to provide a rationale for the additional information under the

**Gus Bakas**

Director- Massachusetts Hydro  
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criteria in 18 CFR §§ 5.15(d) or (e), as appropriate. FirstLight will respond to any such additional information requests in its May 30 filing.

Sincerely,

A handwritten signature in black ink, appearing to read "Gus Bakas", written in a cursive style.

Gus Bakas

[Attachment A](#)

[Attachment B](#)

## **Attachment A: Responses to CRWC comments**

### **Study 3.3.6. Impact of Project Operations on Shad Spawning, Spawning Habitat and Egg Deposition in the Area of the Northfield Mountain and Turners Falls Projects**

CRWC comment: The Revised Study Plan (RSP) dated August 14, 2013 stated in Task 3 that in the Turners Falls impoundment, "...Upstream surveys will target areas of suitable aquatic habitat for shad spawning based on HSI curves." A revised, track-changes version of this study plan was circulated to stakeholders on April 8, 2015. This version did not show this wording being deleted, but the resulting wording left standing does not specify that suitable habitat will be identified using HSI curves. Stakeholders may not have realized what was being changed. It doesn't appear that the revised study plan was submitted to FERC, however.

CRWC request: Please provide areas identified by HSI curves as suitable aquatic habitat for shad spawning in the Turners Falls impoundment. If this was not done, please identify any areas where it was thought there might be shad spawning habitat. Also provide documentation of the dates and times all survey sites in the impoundment were visited, and the launch location and time each night.

#### FirstLight response:

The final version of the study plan was sent to stakeholders, including CRWC, and FERC on April 29, 2016 via email. The sentence related to the HSI curves was not included in the final version. FirstLight conducted the study per the RSP, which included searching the entire Turners Falls Impoundment for shad spawning activity. After searching the entire TFI for shad spawning activity, the only area where spawning was found was near Stebbins Island.

Relative to the dates and times all survey sites in the TFI were visited and the launch location and time each night, FirstLight will provide the requested information as part of its Response filing on May 30, 2016.

CRWC request: Please provide launch location and time of all observations for all field days in the study (canal, bypass channel, and downstream of Cabot).

#### FirstLight response:

FirstLight will provide the requested information as part of its Response filing on May 30, 2016.

### **Study 3.3.18 Addendum. Impacts of Turners Falls Canal Drawdown on Fish Migration and Aquatic Organisms**

CRWC comment: The revised RSP for this study, submitted as an Appendix to the ISR dated September 16, 2014, said that in Task 1, "A field crew of experienced biologists will systematically traverse each of the zones in a meander survey fashion recording observations of estimated number of each species encountered."

CRWC request: Please provide the observations and documentation of the meander survey. The revised RSP submitted with the ISR from Sept. 2014 states that, "The final number and placement of quadrats will be decided prior to the drawdown in consultation with the resource agencies and Conte Lab researchers. These data will be used to extrapolate counts for the entire area of suitable habitat within each zone."

#### FirstLight response:

The observations and documentation of meander survey were provided in the Addendum on Study No. 3.3.18 filed on March 1, 2016.

CRWC request: Please provide consultation documentation from the Conte Lab on the number and placement of quadrats.

#### FirstLight response:

See [Appendix A-1](#), which includes two letters sent to the resource agencies and Conte Lab.

### **Study 3.3.20. Ichthyoplankton Entrainment Assessment at the Northfield Mountain Project**

CRWC request: Please provide the total time of pumping with 1, 2, 3 & 4 pumps, by week, from May 15 to July 15 for 2015 and for the period from 2006 to 2014 for the equivalent weeks. Please also provide the total time by pump for the nights in 2015 when samples were taken with more than one pump operating.

FirstLight response:

Relative to the total time of pumping with 1, 2, 3 and 4 pumps from May 15 to July 15, FirstLight will provide the requested information as part of its Response filing on May 30, 2016.

Relative to providing the same information for the period 2006 to 2014, FirstLight considers this a request for additional information outside the approved study plan.

Relative to providing the total time by pump for the nights in 2015 when samples were taken with more than one pump operating, FirstLight will provide the requested information as part of its Response filing on May 30, 2016.

CRWC request: Please provide in 15-minute intervals (or the shortest possible interval longer than 15 minute) discharge from the Vernon project for the period of May 15 to July 15, 2015.

FirstLight response:

FirstLight considers this a request for additional information that is outside the approved study plan.

CRWC request: Please confirm whether or not the column header on Table 4.1-2 of the report that says “Northfield Mountain Generation” was an error, and whether it should have said, “Northfield Mountain Pump-back (or Pumping).” If, in fact, generation took place during any of the sampling events, please identify which samples were collected during generation.

FirstLight response:

The column header on Table 4.1-2 was incorrectly shown as “Northfield Mountain Generation.” It should have read “Northfield Mountain Pumping.”

### **Study 3.6.1. Recreation Use/User Contact Survey**

CRWC request: Please provide CRWC with traffic counter data at each site where a traffic counter was placed. We are interested in the total number of counts for the year, which calendar day experienced the highest use, and the number of counts on the peak use day for each site. We do not necessarily need the raw data.

FirstLight response:

FirstLight has filed its traffic counter data, in the form of spreadsheets (FL\_2014\_Traffic\_Count\_Data.xlsx). The PDF version of spreadsheets are attached hereto as [Appendix A-2](#).

CRWC request: Please provide CRWC with information on the time of day/duration of each calibration count at each site on each survey date. Section 4.1.3 in Study 3.6.1 listed recreation use during 2014 for several facilities.

FirstLight response:

FirstLight has filed its calibration count data, in the form of spreadsheets (FL\_2014\_Calibration\_Count\_Data.xlsx). The PDF version of spreadsheets are attached hereto as [Appendix A-3](#).

CRWC request: Please provide CRWC with the number of boat rentals, by boat type, at the Barton Cove Canoe and Kayak Rental Area for the years 2010-2014. Please provide the number of campers (or if that is

2010-2014. Dates of peak use would also be helpful.

FirstLight response:

The Recreation Use/User Contact Survey estimated use and demand at the recreation sites based on data collected during January – December 2014, not on prior years' data. As set forth in the study report, data to estimate use consisted of spot counts, calibration counts, traffic counts, and 2014 FirstLight use data at sites where FirstLight collects such data (see Table 3.2.1-5 of the study report for sites where FirstLight collects use data).

There are three components to Barton Cove – the Campground, the Canoe and Kayak Rental Area, and the Nature Area. FirstLight collects two sets of monthly use data at Barton Cove – one for the three areas combined and one for Barton Cove campground. FirstLight does not collect separate data for the number and type of boat rentals. To segregate use at the Barton Cove Canoe and Kayak Area, first, the monthly use at the Campground was subtracted from the monthly total for Barton Cove. This provided an estimate of combined use of the Canoe and Kayak Rental Area and Nature Area. Then, use was apportioned between the Canoe and Kayak Rental Area and the Nature Area based on data collected at the two areas during spot counts.

FirstLight does not collect data on the number of campers at the campgrounds. To estimate 2014 use at the campgrounds, campground registration data were used to calculate the total number of use nights by month. Individual campsites were assumed to have three campers per site on average and group campsites were assumed to have 16 campers on average.

For the Assessment of Day Use and Overnight Facilities Associated with Non-Motorized Boats (study 3.6.4), FirstLight reviewed data for campground occupancy for the years 2010-2014. The campground occupancy data (for both Munn's Ferry and Barton Cove), have been filed in the form of spreadsheets, for the years 2010-2014 (FL\_2010-2014\_Campground\_occupancy.xlsx). The PDF version of spreadsheets are attached as [Appendix A-4](#).

CRWC request: Please provide total number of boat counts in the boat survey conducted for Study 3.1.2, and the data range of the boat counts. Feel free to list the caveats associated with this data (no way of knowing how many times the same boat passed by this spot in any given day, etc.).

FirstLight response:

The boat survey data is currently being evaluated as part of Study No. 3.1.2 and will be included in the final report for that study.

### **Study 3.6.5. Land Use Inventory**

CRWC request: Please provide CRWC with the document or citation of the “FERC-approved permit program” that covers non-project use of project lands related to water withdrawals and docks and other uses besides camps. We are familiar with the plan for the historic camps that was submitted to FERC on October 10, 2008 and approved with modifications by FERC on October 28, 2009, and we already have a copy of this document as well as the FERC order. We are also familiar with the authorization of the solar array, and do not need copies of that. We are interested in the documentation (and FERC approval date) for the permit program for all the other uses as described in section 4.4 of the study report for 3.6.5.

FirstLight response:

FirstLight has an established Permit Program through which it administers non-project uses of Project lands including lands it owns in fee, or in which it has an interest. While there is no FERC approval of the Permit Program, the Permit Program follows the requirements of the Standard Land Use Articles in the current licenses for the Turners Falls and Northfield Mountain Pumped Storage Developments. Consistent with the Standard Land Use articles, FirstLight's Permit Program recognizes four categories of proposed uses of Project lands that require varying levels of FERC notification and control requirements. A copy of the

Permit Program is attached hereto as [Appendix A-5](#).

CRWC request: Please provide CRWC with a breakdown of the recreation land within the project boundaries (similar to Table 4.1-2 in the report) as follows: total acres of recreation land in the project boundary, total acres of recreation land owned by FirstLight (FL), acres of FL-owned recreation land that is part of the Northfield Mountain facility, acres of FL-owned recreation land other than Northfield Mountain that is a “public” facility, and acres of FL-owned recreation land other than Northfield Mountain that is under “private” use (the camps, boat club, rod & gun club, for example).

FirstLight response:

The intent of the approved study plan for Study No. 3.6.5 is to develop appropriate land use designations in order to aid in future land management decisions for lands within the Project boundary. FirstLight considers this a request for additional information that is outside the approved study plan.

**Appendix A-1: Letters Documenting Consultation with Conte Lab**



July 17, 2014

**VIA EMAIL**

John Warner, US Fish & Wildlife Service  
Melissa Grader, US Fish & Wildlife Service  
Ken Sprankle, US Fish & Wildlife Service  
Caleb Slater, MA Division of Fish & Wildlife  
Jessica Pruden, National Marine Fisheries Service  
Bill McDavitt, National Marine Fisheries Service  
Alex Haro, USGS Conte Lab

Re: FirstLight, Relicensing of the Turners Falls Hydroelectric Project (FERC No. 1889) and Northfield Mountain Pumped Storage Project (FERC No. 2485), Study No. 3.3.18- *Impact of Turners Falls Canal Drawdown on Fish Migration and Aquatic Organisms*

Dear All,

FirstLight Hydro Generating Company (FirstLight) is currently in the process of relicensing its Turners Falls Hydroelectric Project (FERC No. 1889) and Northfield Mountain Pumped Storage Project (FERC No. 2485) with the Federal Energy Regulatory Commission (FERC). On August 14, 2013 FirstLight filed its Revised Study Plan (RSP). The purpose of this letter is to consult with the resource agencies and Conte Lab researchers about the final number and placement of quadrats that will be used to determine the distribution and relative abundance of juvenile sea lamprey (ammocoetes) and mussels as required in Study No. 3.3.18- *Impact of Turners Falls Canal Drawdown on Fish Migration and Aquatic Organisms*.

Study No. 3.3.18 is a study to quantify the impacts of the annual Turners Falls Project canal drawdown on emigrating and resident fishes, freshwater mussels and mudpuppies in the canal. The study will commence as soon as practicable after dewatering and will be completed on the day following the drawdown, 9/30/14. A crew of experienced biologists will conduct a meander survey in unwetted areas, and a backpack electrofishing and/or seine survey in wetted areas. Areas of the canal with appropriate soft sediment habitat will be sampled using 1-m by 1-m quadrats to determine counts of ammocoetes and mussels. Figure 1 displays the locations of the proposed quadrats. These were positioned in areas either along the banks or the hard bottom of the canal where sampling is possible without sinking in the soft sediments. Sample locations may be modified in the field if bottom sediments have shifted. When the canal is drawn down we may find out that some areas have been covered with the muck that makes some

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**John S. Howard**

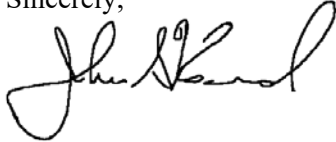
Director FERC Compliance  
Chief Dam Safety Engineer

FirstLight Power Resources, Inc.  
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Tel. (413) 659-4489/ Fax (413) 422-5900/  
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places inaccessible. Please respond by August 1, 2014 to confirm that the number of quadrats and proposed locations will address your concerns about the study's potential impacts to ammocoetes and mussels. If no response is received, we will assume that the proposed locations are approved.

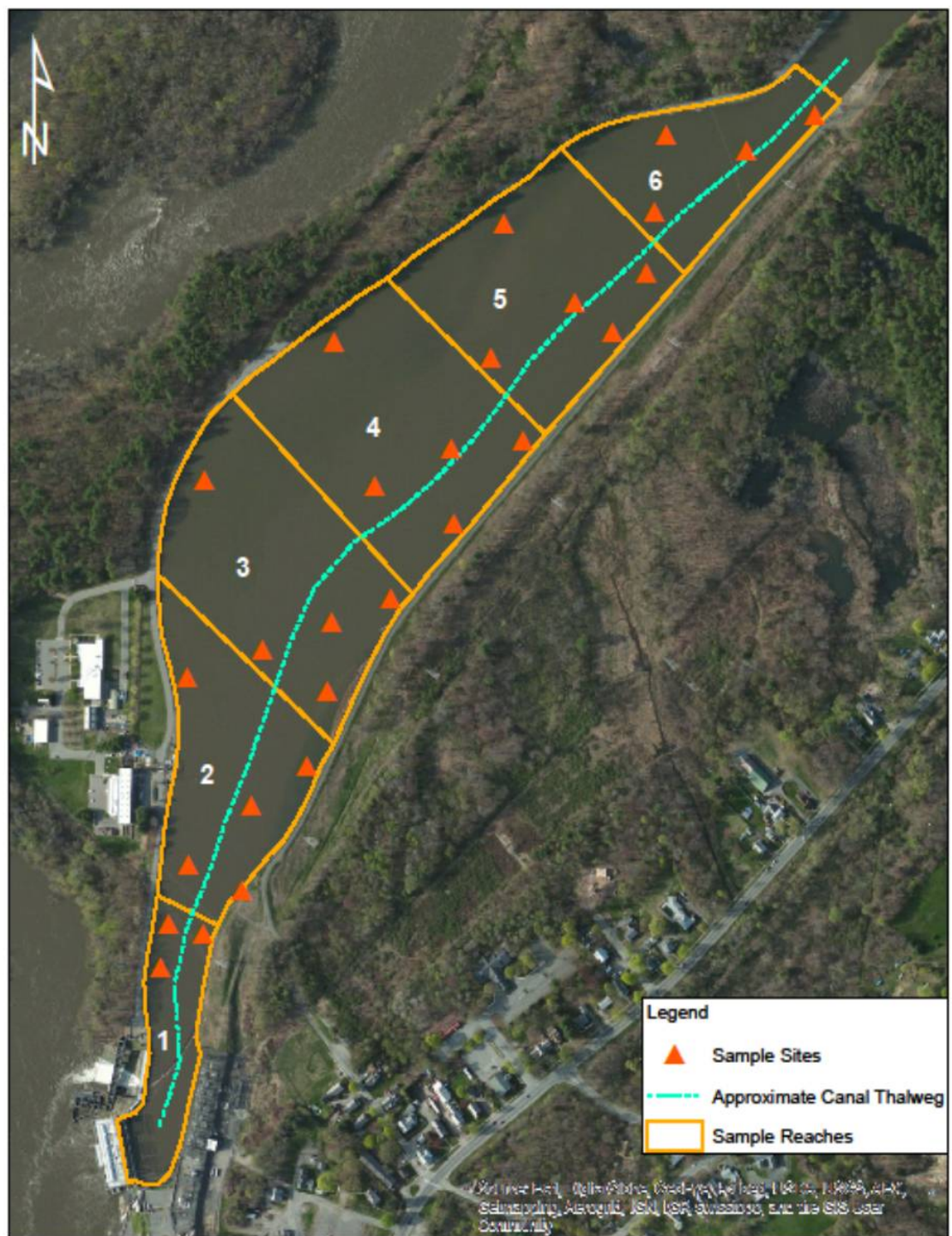
Sincerely,

A handwritten signature in black ink, appearing to read "John Howard", with a stylized, cursive script.

John Howard

Cc: Ken Hogan, FERC (via email)

Attachment: Figure 1



FIRSTLIGHT POWER RESOURCES

Proposed Study Plan

0 250 500 1,000 Feet

Sample locations for  
Canal Drawdown Survey

Copyright © 2013 FirstLight Power Resources All rights reserved.

Path: W:\gis\map\Study\_Plan\Drawdown\SampleLocations.mxd



August 15, 2014

**VIA EMAIL**

John Warner, US Fish & Wildlife Service  
Melissa Grader, US Fish & Wildlife Service  
Ken Sprankle, US Fish & Wildlife Service  
Caleb Slater, MA Division of Fish & Wildlife  
Jesse Leddick, MA Natural Heritage  
Jessica Pruden, National Marine Fisheries Service  
Bill McDavitt, National Marine Fisheries Service  
Alex Haro, USGS Conte Lab

Re: FirstLight, Relicensing of the Turners Falls Hydroelectric Project (FERC No. 1889) and Northfield Mountain Pumped Storage Project (FERC No. 2485), Study No. 3.3.18- *Impact of Turners Falls Canal Drawdown on Fish Migration and Aquatic Organisms*

Dear All,

FirstLight Hydro Generating Company (FirstLight) is currently in the process of relicensing its Turners Falls Hydroelectric Project (FERC No. 1889) and Northfield Mountain Pumped Storage Project (FERC No. 2485) with the Federal Energy Regulatory Commission (FERC). On July 17, 2014 FirstLight emailed a letter to resource agencies and Conte Lab researchers about the final number and placement of 1-m by 1-m quadrats that will be used to determine the distribution and relative abundance of juvenile sea lamprey (ammocoetes) and mussels as required in Study No. 3.3.18- *Impact of Turners Falls Canal Drawdown on Fish Migration and Aquatic Organisms*. John Warner and Jesse Leddick replied to the letter and requested more quadrats in the western bank of the canal, especially in Zones 3-5. Other requests include: identifying mussels found as part of quadrat surveys to species; reporting average and variances of species counts for each Zone, with habitat type and species included; reporting similar mean measurements and variances for ammocoete sea lamprey; describing the second survey to occur the day prior to rewatering the canal; and increasing the size of the 1-m by 1-m quadrats to 2-m by 2-m.

FirstLight considered your comments about the locations of the quadrats and as recommended have added additional quadrats on the western bank particularly in Zones 3-5 (Figure 1). These new sampling locations follow the recommendations that along the western bank, thalweg and eastern bank each have at least 10 quadrat locations. We plan to identify the mussels found in the quadrat sampling to species and

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**John S. Howard**

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will report the average and variances of species counts by Zone including habitat type for mussels and ammocoete sea lamprey. As indicated in the SPDL, FirstLight plans to conduct a second survey, the same as the first survey, the day before the canal is rewatered on Friday October 3, 2014. However Firstlight does not plan to increase the quadrat size from 1-m by 1-m to 2-m by 2-m as FERCs Study Plan Determination Letter approved the use of 1-m by 1-m quadrats as set forth in the Revised Study Plan.

Sincerely,

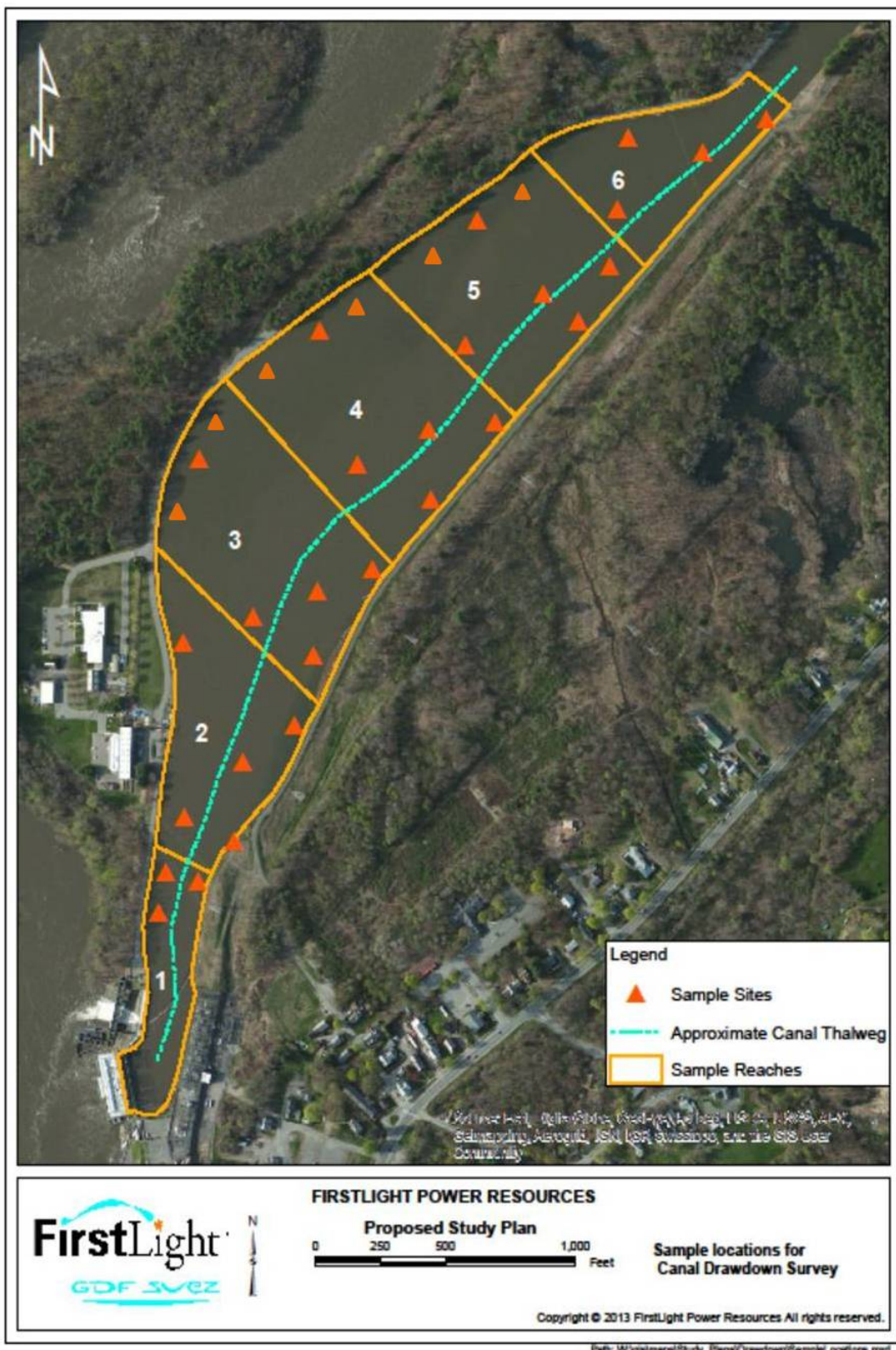
A handwritten signature in black ink, appearing to read "John Howard". The signature is fluid and cursive, with the first name "John" and last name "Howard" clearly distinguishable.

John Howard

Cc: Ken Hogan, FERC (via email)  
Don Pugh, TU (via email)  
Andrea Donlon, CRWC (via email)

Attachment: Figure 1





## **Appendix A-2: Traffic Counter data spreadsheets**

Counter Checks

Facility	Date	Time	Total Count	Count 1	Count 2	Count 3	Count 4	Count 5	Count 6	Count 7	Notes
Pauchaug Boat Launch	5/23/2014	19:28	471	334							Good condition
Bennett Meadow	5/23/2014	19:38	143	101							Good condition
River View	5/23/2014	19:16	122	104							Good condition
Cabot Camp	5/23/2014	18:57	41	-							Good condition
Barton Cove Campground	5/23/2014	18:33	68	39							Good condition
Barton Cove SVGC	5/23/2014	18:40	149	87							Good condition
Barton Cove Nature Area	5/23/2014	18:45	355	258							Good condition
Barton Cove Canoe and Kayak	5/23/2014	18:29	189	149							Good condition
MA State Boat Launch	5/23/2014	18:23	173	-							Good condition
Cabot Woods Fishing Access Gate	5/23/2014	18:10	140	-							Good condition
Cabot Woods Fishing Access Gauge	5/23/2014	18:06	116	-							Good condition
Poplar Street Access	5/23/2014	17:47	22	-							Good condition
Pauchaug Boat Launch	5/26/2014	12:24	1244	421	531						Good condition
Bennett Meadow	5/26/2014	12:34	262	121	100						Good condition
River View	5/26/2014	12:45	435	118	255						Good condition
Cabot Camp	5/26/2014	12:59	303	84	124						Good condition
Barton Cove Campground	5/26/2014	13:10	503	159	242						Good condition
Barton Cove SVGC	5/26/2014	13:06	215	105	64						Good condition
Barton Cove Nature Area	5/26/2014	13:18	1320	394	609						Good condition
Barton Cove Canoe and Kayak	5/26/2014	13:22	566	167	295						Good condition
MA State Boat Launch	5/26/2014	14:00	1825	465	685						Good condition
Cabot Woods Fishing Access Gate	5/26/2014	13:36	1041	407	363						Moving because of poision ivy, good condition
Cabot Woods Fishing Access Gauging	5/26/2014	13:33	831	280	261						Moving because of poision ivy, good condition
Poplar Street Access	5/26/2014	13:47	114	55	95						Good condition

Include in your notes the condition of the equipment at the time of visit.

### **Appendix A-3: Calibration Count data spreadsheets**



[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

Weekend or Weekday? Weekend	Number of People Participating in Activity During Visit

[illegible][illegible][illegible]

Observer: Sarah		Date: 4/17/14		Time Start: 9:55		Time End: 11:25.		Weather: Chilly, sunny 35															
				Start Count: 2		End Count: 3																	
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Truck	T	-	-	-																			
Truck	F	-	-	-																			
Truck	F	10:45	-	-	3																		3
Notes Vehicles both had fish license plates + car stickers- water very high + I saw no one.																							

[illegible]



Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Chris Gilbert				Date:6/10/2014		Time Start:10:30			Time End:12:30			Weather: Cloudy, Mid 70's													
						Start Count:																			
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use		
Silver Ford	F	10:56	11:23	3																		3			
Grey Chevy Impala	F	12:01	12:03	1																			1		
Silver Subaru	F	12:10	OS	2																		2			
Red Chevy	F	12:13	OS	1																		1			
Navy Blue Toyota	F	12:17	OS	3																		3			
Grey GMC Truck	F	12:17	OS	3																		3			
Green Subaru	F	12:22	OS	2																		2			

Observer: Chris Gilbert				Date:6/16/2014		Time Start:16:31			Time End:18:35			Weather: Sun, few clouds, 70°F											
						Start Count:			End Count:														
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Tan Toyota	T	16:31	16:50	1																			1

Observer: Aaron				Date:6/21/2014		Time Start:6:00			Time End: 8:00			Weather: Cool, breezy 56											
						Start Count: 1			End Count: 1														
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Chevy Pickup	T	-	-	-																			

Observer: Chris Gilbert				Date:6/28/2014		Time Start:10:40			Time End:12:40			Weather: Sunny, 70°F											
						Start Count: NA			End Count: NA														
Weekend or Weekday? Weekend				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Green Chevy Impala	F	11:18	OS	4																		4	
Blue Mini-Van	F	11:42	OS	2		2																	
Green Honda Accord	F	12:07	OS	1																		1	
Tan Jeep	F	12:08	12:30	2																		2	
Black Pickup	F	12:28	12:29	2																			2
Brown Jeep	F	12:29	OS	2																		2	
Motorcycle	F	12:34	12:35	1																			1

Observer:Laura				Date:7/4/14		Time Start: 13:54				Time End: 15:54				Weather: Rainy, 75																			
						Start Count: 0				End Count: 0																							
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																													
Vehicle Description		Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use									
-		-	-	-	-																												

Observer:Laura				Date:7/9/14		Time Start: 11:47			Time End: 13:47			Weather: Sunny, 78											
						Start Count: 0			End Count: 0														
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Andrew				Date:7/13/14		Time Start: 10:15			Time End: 12:15			Weather: Warm, sunny, breezy											
						Start Count:			End Count:														
Weekend or Weekday? Weekend				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Toyota Suv	F	11:45	-	4		4																	
Subaru Outback	F	11:45	-	3		3																	

Observer: Andrew					Date:7/14/14					Time Start: 14:20					Time End: 16:20					Weather: Hot, Sunny				
Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit					Start Count:					End Count:									

[illegible][illegible][illegible][illegible]

Weekend or Weekday? Weekend	Number of People Participating in Activity During Visit
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Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	0																			
Observer: Andrew Palmer Date: 9/10/2014					Time Start: 10:45		Time End: 12:45		Weather: cool, bright														
Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			
Observer: Aaron Date: 9/21/14					Time Start: 5:30		Time End: 7:30		Weather: Wet, Rainy 55														
Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			
Observer: Aaron Date: 9/27/2014					Time Start: 14:35		Time End: 16:35		Weather: 69 sunny														
Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Toyota pickup	T	-	-	-																			
Observer: Andrew Palmer Date: 9/30/2014					Time Start: 11:29		Time End: 13:29		Weather: cool, overcast														
Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Toyota tacoma	T	-	-	-																			
Observer: Andrew Palmer Date: 10/3/2014					Time Start: 15:50		Time End: 17:50		Weather: cool, mostly clear														
Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Jeep	T	-	-	-																			
Observer: Aaron Date: 10/4/2014					Time Start: 9:30		Time End: 11:30		Weather: Rainy 54														
Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Green truck	F	-	11:00	1					1														
Chevy suburban	F	10:45	10:46	1																			1
Observer: Aaron Date: 10/12/2014					Time Start: 10:15		Time End: 12:15		Weather: 52 overcast														
Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			
Observer: Andrew Palmer Date: 10/15/2014					Time Start: 9:38		Time End: 11:38		Weather: warm, overcast														
Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			
Observer: Lindsay Date: 10/26/14					Time Start: 8:50		Time End: 10:50		Weather: Mostly Cloudy 46														
Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			
Observer: Aaron Date: 11/1/2014					Time Start: 8:00		Time End: 10:00		Weather: 47 wet, sprinkling/drizzle														
Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Observer: Aaron Date: 11/9/2014					Time Start: 7:00		Time End: 9:00		Weather: cool, 45, clouds														
Weekend or Weekday? Weekend					Start Count: N/A End Count: N/A Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Observer: Andrew Palmer Date: 11/13/2014					Time Start: 14:55		Time End: 16:55		Weather: cold, mostly sunny														
Weekend or Weekday? Weekday					Start Count: N/A End Count: N/A Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Observer: Andrew Palmer Date: 11/18/2014					Time Start: 9:51		Time End: 11:51		Weather: cold, mostly cloudy														
Weekend or Weekday? Weekday					Start Count: N/A End Count: N/A Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Observer: Lindsay Date: 11/25/2014					Time Start: 14:25		Time End: 16:25		Weather: 55 sunny														
Weekend or Weekday? Weekday					Start Count: N/A End Count: N/A Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Observer: Aaron Date: 11/29/2014					Time Start: 6:00		Time End: 8:00		Weather: cold, 33														
Weekend or Weekday? Weekend					Start Count: N/A End Count: N/A Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Mercury SUV	T	7:30	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Observer: Lindsay Date: 11/30/2014					Time Start: 11:59		Time End: 13:59		Weather: 42 cloudy, drizzling														
Weekend or Weekday? Weekend					Start Count: N/A End Count: N/A Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Observer: Lindsay Date: 12/4/2014					Time Start: 7:46		Time End: 9:46		Weather: 32 sunny														
Weekend or Weekday? Weekday					Start Count: N/A End Count: N/A Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
VT truck	F	9:13	9:21	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Observer: Lindsay Date: 12/6/2014					Time Start: 9:45		Time End: 11:45		Weather: 37 raining														
Weekend or Weekday? Weekend					Start Count: N/A End Count: N/A Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
NH red jeep	T	-	11:18	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Observer: Andrew Palmer Date: 12/15/2014					Time Start: 7:25		Time End: 9:25		Weather: cold, cloudy														
Weekend or Weekday? Weekday					Start Count: N/A End Count: N/A Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Observer: Andrew Palmer Date: 12/30/2014					Time Start: 9:35		Time End: 11:35		Weather: 24 partly cloudy														
Weekend or Weekday? Weekday					Start Count: N/A End Count: N/A Number of People Participating in Activity During Visit																		

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Observer: Rob Mills	Date: 3/10/14	Time Start: 16:20	Time End: 18:20	Weather: clear
Weekend or Weekday? Weekday		Start Count:	End Count:	
		Number of People Participating in Activity During Visit		

[illegible][illegible][illegible][illegible]

Observer: Sarah	Date: 4/22/2014	Time Start: 12:10	Time End: 14:10	Weather: Warm, Overcast, 61°
Weekend or Weekday? Weekday		Start Count:	End Count:	
		Number of People Participating in Activity During Visit		

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**Recreation Use Calibration Sheet**  
**Turners Falls/Northfield Mountain Projects - Site: Pauchaug WMA**

Observer: Chris Gilbert					Date: 6/16/2014		Time Start: 8:30		Time End: 10:30		Weather: Sunny, few clouds.												
Weekend or Weekday? Weekday							Start Count:		End Count:		Number of People Participating in Activity During Visit												
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Chris Gilbert					Date: 6/16/2014		Time Start: 12:52		Time End: 14:52		Weather: Mostly Cloudy 80°F												
Weekend or Weekday? Weekday							Start Count:		End Count:		Number of People Participating in Activity During Visit												
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
White Minivan	F	14:28	14:30	1																			1

Observer: Chris Gilbert					Date: 6/28/2014		Time Start: 13:00		Time End: 15:00		Weather: Sunny, 80°F												
Weekend or Weekday? Weekend							Start Count: NA		End Count: NA		Number of People Participating in Activity During Visit												
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Tan Toyota	F	13:20	13:27	1																			1
Black Chevy Malibu	F	14:08	14:09	2																			2
Green Pickup	F	14:17	14:18	1																			1

Observer: Laura					Date: 7/4/14		Time Start: 16:15		Time End: 18:15		Weather: Rainy 75												
Weekend or Weekday? Weekday							Start Count: 0		End Count: 0		Number of People Participating in Activity During Visit												
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Laura					Date: 7/9/14		Time Start: 14:06		Time End: 16:06		Weather: Sunny with a light l												
Weekend or Weekday? Weekday							Start Count: 0		End Count: 2		Number of People Participating in Activity During Visit												
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Black pickup	F	-	14:21	1																			1
Black pickup	F	15:20	-	1																			1

Observer: Andrew					Date: 7/13/14		Time Start: 13:00		Time End: 15:00		Weather: Hot, overcast												
Weekend or Weekday? Weekday							Start Count: 0		End Count: 0		Number of People Participating in Activity During Visit												
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Andrew					Date: 7/14/14		Time Start: 9:55		Time End: 11:55		Weather: Hot, mostly sunny												
Weekend or Weekday? Weekday							Start Count:		End Count:		Number of People Participating in Activity During Visit												
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Chris Gilbert					Date: 7/19/14		Time Start: 12:40		Time End: 14:40		Weather: Hazy, humid												
Weekend or Weekday? Weekend							Start Count: n/a		End Count: n/a		Number of People Participating in Activity During Visit												

**Recreation Use Calibration Sheet**  
**Turners Falls/Northfield Mountain Projects - Site: Pauchaug WMA**

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
silver/green pickup	F	12:47	-	2																			2
gray jeep	F	15:53	14:24	1																			1
tractor	F	12:57	-	1																			1
red pickup	F	13:13	-	1																			1
Black pickup	T	13:18	14:13	1																			1

Notes: All from B acre Farm

Observer: Chris Gilbert		Date: 7/30/14		Time Start: 12:45		Time End: 14:45		Weather: partly sunny, hazy															
				Start Count: n/a																			
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Laura		Date: 8/2/14		Time Start: 14:26		Time End: 16:26		Weather: cloudy 77															
				Start Count:		End Count:																	
Weekend or Weekday? Weekend				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Black SUV	F	-	15:08	1																		1	
Black Pickup	F	16:00	-	1																			1

Observer: Andrew		Date: 8/4/14		Time Start: 10:33		Time End: 12:33		Weather: Hot, Sunny, some rain															
				Start Count:		End Count:																	
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Chevy pickup	F	10:47	10:48	1																			1

Observer: Aaron		Date: 8/6/14		Time Start: 10:30		Time End: 12:30		Weather: 72 Sunny															
				Start Count:		End Count:																	
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Aaron		Date: 8/16/14		Time Start: 8:00		Time End: 10:00		Weather: 61 Sun/Clouds															
				Start Count:		End Count:																	
Weekend or Weekday? Weekend				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Red Ford Ranger	F	-	-	-																			
Envi. Police Truck	F	8:55	9:10	1																			1

Observer: Chris Gilbert		Date: 8/19/14		Time Start: 13:00		Time End: 15:00		Weather: Mostly Sunny															
				Start Count: N/A		End Count: N/A																	
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Aaron		Date: 8/31/14		Time Start: 8:00		Time End: 10:00		Weather: Humid/Cloudy 80															
				Start Count:		End Count:																	
Weekend or Weekday? Weekend				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Black Hatchback	F	9:00	9:50	2							2												

Observer:	Andrew Palmer	Date:	9/10/2014	Time Start:	13:08	Time End:	15:08	Weather:	Warm, mostly sunny
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Observer:		Andrew Palmer		Date:	10/21/2014		Time Start:		15:29		Time End:		17:29		Weather:		cool, cloudy, rainy																														
Weekend or Weekday?		Weekday				Number of People Participating in Activity During Visit																																									
Vehicle Description		Trailer T/F		Time In		Time Out		Total # of People		Motor boat		Non motor boat		Whitewater boat (Bypass only)		Camping (excl. Barton Cove)		Fish		Picnic		Walk/ Hike/ Jog		X-C Ski		Snow Shoe		Ice Fish		Ice Skate/ Boat		Climb		Hunt		Ride Horses		Ride Bikes		Sight see		Birding		Other Rec Use		Non Rec Use	
-		-		-		-		-																																							
Observer: Lindsey		Date:		10/26/14		Time Start:		11:10		Time End:		13:10		Weather: Partly cloudy 50																																	
Weekend or Weekday?		Weekend				Number of People Participating in Activity During Visit																																									
Vehicle Description		Trailer T/F		Time In		Time Out		Total # of People		Motor boat		Non motor boat		Whitewater boat (Bypass only)		Camping (excl. Barton Cove)		Fish		Picnic		Walk/ Hike/ Jog		X-C Ski		Snow Shoe		Ice Fish		Ice Skate/ Boat		Climb		Hunt		Ride Horses		Ride Bikes		Sight see		Birding		Other Rec Use		Non Rec Use	
Cranberry Buick		F		-		11:20		2		1												2																									
Dark Grey Toyota Truck		F		11:11		12:42		1														1																									
Lady Walking		F		11:13		11:55		1														1																									
Observer:		Aaron		Date:		11/1/2014		Time Start:		10:30		Time End:		12:30		Weather: 46 wet, cloudy																															
Weekend or Weekday?		Weekend				Number of People Participating in Activity During Visit																																									
Vehicle Description		Trailer T/F		Time In		Time Out		Total # of People		Motor boat		Non motor boat		Whitewater boat (Bypass only)		Camping (excl. Barton Cove)		Fish		Picnic		Walk/ Hike/ Jog		X-C Ski		Snow Shoe		Ice Fish		Ice Skate/ Boat		Climb		Hunt		Ride Horses		Ride Bikes		Sight see		Birding		Other Rec Use		Non Rec Use	
Ford Ranger		F		-		10:50		1																																							
Ford Ranger		F		-		10:50		1																																							
Observer:		Aaron		Date:		11/9/2014		Time Start:		9:30		Time End:		11:30		Weather: 52 sunny																															
Weekend or Weekday?		Weekend				Number of People Participating in Activity During Visit																																									
Vehicle Description		Trailer T/F		Time In		Time Out		Total # of People		Motor boat		Non motor boat		Whitewater boat (Bypass only)		Camping (excl. Barton Cove)		Fish		Picnic		Walk/ Hike/ Jog		X-C Ski		Snow Shoe		Ice Fish		Ice Skate/ Boat		Climb		Hunt		Ride Horses		Ride Bikes		Sight see		Birding		Other Rec Use		Non Rec Use	
Old car		F		11:00		11:00		1																																							
Honda civic		F		11:10		11:11		1																																							
Observer:		Andrew Palmer		Date:		11/13/2014		Time Start:		10:08		Time End:		12:08		Weather: cold, partly cloudy																															
Weekend or Weekday?		Weekday				Number of People Participating in Activity During Visit																																									
Vehicle Description		Trailer T/F		Time In		Time Out		Total # of People		Motor boat		Non motor boat		Whitewater boat (Bypass only)		Camping (excl. Barton Cove)		Fish		Picnic		Walk/ Hike/ Jog		X-C Ski		Snow Shoe		Ice Fish		Ice Skate/ Boat		Climb		Hunt		Ride Horses		Ride Bikes		Sight see		Birding		Other Rec Use		Non Rec Use	
-		-		-		-		-																																							
Observer:		Andrew Palmer		Date:		11/18/2014		Time Start:		12:16		Time End:		14:16		Weather: cold, cloudy																															
Weekend or Weekday?		Weekday				Number of People Participating in Activity During Visit																																									
Vehicle Description		Trailer T/F		Time In		Time Out		Total # of People		Motor boat		Non motor boat		Whitewater boat (Bypass only)		Camping (excl. Barton Cove)		Fish		Picnic		Walk/ Hike/ Jog		X-C Ski		Snow Shoe		Ice Fish																			

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Observer:	Aaron	Date:	10/4/2014	Time Start:	13:45	Time End:	15:45	Weather:	Rainy, 56
Weekend or Weekday?	Weekend			Start Count:	321	End Count:	324		
Number of People Participating in Activity During Visit									

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Green pickup	T	-	13:50	2	2																		
Grey pickup	T	-	14:25	2	2																		
White car	T	13:50	13:52	1																			1
Truck	F	13:50	13:51	1																			1
Tan Car	F	14:20	14:21	1																			1
Mail truck	F	14:20	14:30	1																			1
Buick car (white)	F	15:21	15:30	1																			1

Observer: Aaron Date: 10/12/2014 Time Start: 8:00 Time End: 10:00 Weather: Foggy, cold 41  
Start Count: 364 End Count: 361

Weekend or Weekday?	Weekend																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
White truck (GMC)	T	-																					
Ford truck	T	8:37		1	1																		
Car	F	8:55	8:55	1																			1

Observer: Andrew Date: 10/15/2014 Time Start: 14:04 Time End: 16:04 Weather: Warm, light rain off and on  
Start Count: End Count:

Weekend or Weekday?	Weekday																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Chevy truck	F	-	14:54	1																		1	
Toyota truck	T	-	15:22	1		1																	
Nissan truck	T	-																					
Mail truck	F	14:23	14:36	1																			
SUV	F	14:38	14:45	1																			1
Toyota camry	F	15:05	15:30	1							1												1

Observer: Andrew Date: 10/21/2014 Time Start: 13:28 Time End: 15:28 Weather: Cool, cloudy, rainy  
Start Count: 296 End Count: 328

Weekend or Weekday?	Weekday																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Honda sedan	F	-																					
Mitsubishi sportscar	F	13:50	13:55	1																			1
Chevy truck	F	14:20	14:40	1																			1
Toyota SUV	F	15:05	15:05	1																			1
Dodge truck	F	15:20		1																			1

Observer: Lindsay Date: 10/26/14 Time Start: 13:12 Time End: 15:12 Weather: Partly cloudy 50  
Start Count: 527 End Count: 557

Weekend or Weekday?	Weekend																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
NH Forest Green Truck	F	-	13:13	1																			1
Gold Ford Edge	F	13:44	13:49	2																			2
GMC Gold SUV Nh	F	14:08	14:13	1																			1
Gray Ranger Truck	F	14:13	14:16	1																			1
Silver Rav Toyota	F	14:29	14:31	2																			2
Biker	F	14:44		1																			
Dodge Van	F	15:01	15:04	4															1				4
VT SUV Enderver	F	15:05	15:06	2																			2

Observer: Aaron Date: 11/1/2014 Time Start: 12:30 Time End: 14:30 Weather: Breezy, rainy 49  
Start Count: 330 End Count: 334

Weekend or Weekday?	Weekend																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Dodge truck	T	-																					
GMC pickup	F	13:25	13:26	1																			1

Observer: Aaron Date: 11/9/2014 Time Start: 11:30 Time End: 13:30 Weather: 55 Sunny  
Start Count: 641 End Count: 676

Weekend or Weekday?	Weekend																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Chevy pickup	T	-	12:25	2	2																		
Cadillac SUV	F	-	12:15	1							1												
Hyundai car	F	12:10	12:10	1																			1
BMW car	F	12:10	12:12	1																			1
Jeep cherokee	F	12:15	12:15	2																			2
Chevy cavalier	F	12:35	12:36	1																			1
Range Rover	F	13:05	13:06	1																			1

Observer: Andrew Date: 11/13/2014 Time Start: 8:05 Time End: 10:05 Weather: Cold, partly cloudy  
Start Count: End Count:

Weekend or Weekday?	Weekday																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use











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Observer: Andrew				Date: 7/14/14		Time Start: 7:45		Time End: 9:45		Weather: warm, mostly sunny													
						Start Count: 284		End Count: 292															
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use

Observer: Laura	Date: 9/12/14	Time Start: 9:40	Time End: 11:40	Weather: Mostly sunny, breezy 57
		Start Count: 520	End Count:	













Observer: Sarah																							Date: 5/2/2014		Time Start: 10:00				Time End: 12:00				Weather: 55° F, light clouds with sun, breezy																					
Weekend or Weekday?							Start Count:																End Count:																Number of People Participating in Activity During Visit															
Vehicle Description		Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use																														
-		-	-	-	-																																																	
Observer: Sarah																							Date: 5/7/2014		Time Start: 9:45				Time End: 11:45				Weather: Sunny, mild ~ 58°F																					
Weekend or Weekday? Weekday							Start Count:																End Count:																Number of People Participating in Activity During Visit															
Vehicle Description		Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use																														
?		?	10:05	10:10	1																			1																														
Observer: Laura																							Date: 5/10/2014		Time Start: 15:14				Time End: 17:15				Weather: Partly cloudy, 72°F																					
Weekend or Weekday? Weekend							Start Count:																End Count:																Number of People Participating in Activity During Visit															
Vehicle Description		Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use																														
Kayak/canoe		-	16:04	OS	12		12																																															
Observer: Laura																							Date: 5/18/2014		Time Start: 14:50				Time End: 16:50				Weather: Mostly sunny, breezy 72°F																					
Weekend or Weekday? Weekend							Start Count:																End Count:																Number of People Participating in Activity During Visit															
Vehicle Description		Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use																														
N/A		-	16:00	16:40	3																			3																														
Observer: Laura																							Date: 5/22/2014		Time Start: 11:44				Time End: 12:44				Weather: Rainy, 65°F																					
Weekend or Weekday? Weekday							Start Count: 0																End Count: 0																Number of People Participating in Activity During Visit															
Vehicle Description		Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use																														
-		-	-	-	-																																																	
Observer: Laura																							Date: 5/23/2014		Time Start: 9:40				Time End: 11:40				Weather: Overcast 62°F																					
Weekend or Weekday? Weekday							Start Count: 0																End Count: 0																Number of People Participating in Activity During Visit															
Vehicle Description		Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use																														
Black Pickup		F	10:25	10:26	1																			1																														
Observer: Laura																							Date: 5/25/2014		Time Start: 15:00				Time End: 17:00				Weather: Sunny 74°F																					
Weekend or Weekday? Weekend							Start Count: 0																End Count: 0																Number of People Participating in Activity During Visit															
Vehicle Description		Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use																														







Observer: Lindsay					Date: 12/15/14		Time Start: 10:42		Time End: 12:42		Weather: 37, partly cloudy												
Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
					Start Count:					End Count:													
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Skate	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use





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Observer: Chris				Date: 8/2/14		Time Start: 10:18			Time End: 12:18			Weather: Clouds											
						Start Count: 26			End Count: 40														
Weekend or Weekday? Weekend				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use





Observer: Aaron				Date:	12/6/2014	Time Start: 11:30		Time End: 13:30		Weather: wet, 34 slush on ground														
Weekend or Weekday?					Weekend		Start Count:		End Count:		Number of People Participating in Activity During Visit													
Vehicle Description		Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use



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Observer: Sarah	Date: 5/2/2014	Time Start: 14:27	Time End: 16:25	Weather: 55°F, light clouds, breeze
		Start Count:	End Count:	





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Notes: Most are riverboat ticket buyers.

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Observer: Laura	Date: 9/28/14	Time Start: 12:48	Time End: 13:48	Weather: Sunny 85																			
Weekend or Weekday? Weekend		Number of People Participating in Activity During Visit										End Count:											
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Black pickup	F	-	-	-																			
Black Honda	T	-	-	-																			
Black Volvo	F	-	-	-																			
Blue honda	F	-	-	-																			
Gray toyota	F	-	-	-																			
Black jeep	F	-	-	-																			
Gray honda	F	-	-	-																			
Tan Subaru	F	-	-	-																			1
Blue Honda CRV	F	-	13:20	-	1																		
Tan SUV	F	-	-	-																			
Gray Saturn	F	-	13:30	-	1																		1
Gray Jetta	F	-	-	-																			
Gray accord	F	-	-	-																			
Blue pickup	T	-	13:02	-	1																		1
Gray prius	F	-	13:09	-	1																		1
Blue Honda CRV	F	-	-	-																			
Black civic	F	-	-	-																			
Black SUV	F	-	13:07	-	1																		1
Green outback	F	-	-	-																			
Green saturn	F	-	-	-																			
Gray pickup	F	-	-	-																			
Gray outback	F	-	13:07	-	1																		1
Blue Fiat	F	-	-	-																			
White Jeep	F	-	-	-																			
Black SUV	F	-	-	-																			
Gray pickup	T	-	-	-																			3
Blue Van	F	-	13:22	-	3																		
Gray Toyota	F	-	-	-																			
Gray Corolla	F	-	12:57	-	1																		1
NMH Van	F	-	-	-																			
Gray outback	F	-	13:36	-	1																		
Black SUV	F	-	-	-																			1
Red pickup	F	-	-	-																			
Black SUV	F	-	13:11	-	3																		3
Gray pickup	F	-	-	-					</														

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**Turners Falls/Northfield Mountain Projects - Site: MA State Boat Launch**

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Observer: Sarah Doyle					Date: 2/9/14		Time Start: 16:00			Time End: 17:15			Weather: getting grey and cool										
Weekend or Weekday? Weekend					Start Count:																	End Count:	
					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
car	F	05	16:55	1											1								

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Observer: Chris	Date: 8/2/14	Time Start: 14:40	Time End: 16:40	Weather: Mostly cloudy
		Start Count: 369	End: 483*	

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Notes: \*users who were here before my arrival, left during calibration.\* No boat on the trailer  
Observer: Aaron Date: 8/4/14

Time Start: 13:10	Time End: 15:10	Weather: Muggy/sunny 75
Start Count: 1708	End count: 1784	

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Notes: \* came back to get canoes  
Observer: Andrew

Date: 8/6/14	Time Start: 16:35	Time End: 18:35	Weather: Hot, sunny
	Start Count:	End count:	

[illegible]

Observer: Chris	Date: 8/17/14	Time Start: 15:00	Time End: 17:00	Weather: Partly cloudy
		Start Count: 1520	End 1689*	

[illegible]

Notes: \* Users who were here before my arrival (62 vehicles, 42 trailers. Some left during calibration duration)

[illegible][illegible]









ord pickup	T	9:10 -		2	2																		1	
VW sedan	F	9:20 -		1																				
Observer:	Lindsay	Date:	11/18/2014	Time Start:	12:14	Time End:	14:14	Weather:	33, Mostly sunny															
Weekend or Weekday?	Weekend	Number of People Participating in Activity During Visit																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use	
White car	F	12:55	12:57	1																			1	
Blue Toyota	F	13:09	13:21	1								1												
Gray Honda	F	13:11	13:21	1								1												
UPS truck	F	14:00	14:00	1																			1	
Observer:	Andrew	Date:	11/25/2014	Time Start:	7:30	Time End:	9:30	Weather:	cool, clear															
Weekend or Weekday?	Weekend	Number of People Participating in Activity During Visit																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use	
Ford pickup	F	-	-																					
Buick sedan	F	8:12	8:27	1																			1	
Ford sedan	F	8:48	8:49	1																			1	
Toyota pickup	F	9:08	9:15	3																			3	
Observer:	Andrew	Date:	11/29/2014	Time Start:	7:07	Time End:	9:07	Weather:	cool, clear															
Weekend or Weekday?	Weekend	Number of People Participating in Activity During Visit																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use	
Chevy pickup	T	8:27 -		2	2	2																		
Toyota pickup	F	8:30	8:45	2																			2	
Chevy pickup	T	8:52 -		2		2																		
Chrysler minivan	F	9:05 -		1																			1	
Observer:	Andrew	Date:	12/6/2014	Time Start:	7:00	Time End:	9:00	Weather:	wet, 33, slush on ground															
Weekend or Weekday?	Weekend	Number of People Participating in Activity During Visit																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use	
-	-	-	-	-																				
Observer:	Andrew	Date:	12/11/2014	Time Start:	14:48	Time End:	16:48	Weather:	cold, light snow															
Weekend or Weekday?	Weekend	Number of People Participating in Activity During Visit																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use	
Dodge pickup	F	-	-																					
Chrysler van	F	-	-																					
Chevy pickup	F	16:00	16:20	1																			1	
BMW sedan	F	16:21	16:30	1																			1	
Observer:	Lindsay	Date:	12/14/2014	Time Start:	9:41	Time End:	11:41	Weather:	26, sunny															
Weekend or Weekday?	Weekend	Number of People Participating in Activity During Visit																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use	
-	-	-	-	-																				
Observer:	Lindsay	Date:	12/15/2014	Time Start:	8:30	Time End:	10:30	Weather:	36, partly cloudy															
Weekend or Weekday?	Weekend	Number of People Participating in Activity During Visit																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use	
Gold car	F	8:50	9:20	1																			1	
White car	F	9:05	9:20	1																		1		
Silver BMW	F	9:28	9:45	1																			1	
Silver subaru	F	10:02	10:02	1																			1	

**Recreation Use Calibration Sheet**  
**Turners Falls/Northfield Mountain Projects - Site: Rose Ledge**

Observer: Mara McPartland					Date: 1/13/14		Time Start: 9:35			Time End: 11:35			Weather: clear										
Weekend or Weekday? Weekday					Start Count:			End Count:															
					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Tow truck	F	OS		0																			

Observer: Rob Mills					Date: 1/18/14		Time Start: 8:00			Time End: 10:00			Weather: cold, snowy										
Weekend or Weekday? Weekend					Start Count:			End Count:															
					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Rob Mills					Date: 1/18/14		Time Start: 8:00			Time End: 10:00			Weather: cold, snowy										
Weekend or Weekday? Weekend					Start Count:			End Count:															
					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Rob Mills					Date: 2/3/14		Time Start: 13:35			Time End: 16:35			Weather: light snow, rain										
Weekend or Weekday? Weekday					Start Count:			End Count:															
					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Rob Mills					Date: 2/6/14		Time Start: 14:20			Time End: 16:45			Weather: clear										
Weekend or Weekday? Weekday					Start Count:			End Count:															
					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Rob Mills					Date: 2/7/14		Time Start: 12:15			Time End: 14:15			Weather: clear										
Weekend or Weekday? Weekday					Start Count:			End Count:															
					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Rob Mills					Date: 2/9/14		Time Start: 14:00			Time End: 16:45			Weather: clear										
Weekend or Weekday?					Start Count:			End Count:															
					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Rob Mills					Date: 2/17/14		Time Start: 13:45			Time End: 14:15			Weather: clear										
Weekend or Weekday? Weekday					Start Count:			End Count:															
					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Rob Mills					Date: 2/22/14		Time Start: 13:15			Time End: 16:00			Weather: clear										
Weekend or Weekday? Weekend					Start Count:			End Count:															
					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Sarah Doyle					Date: 3/19/14		Time Start: 12:00			Time End: 14:00			Weather: chilly, grey, 44									
Weekend or Weekday? Weekday					Start Count:			End Count:														
					Number of People Participating in Activity During Visit																	















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Observer: Aaron					Date: 9/28/14		Time Start: 12:15			Time End: 14:40			Weather: Sunny 76										
							Start Count:			End Count:													
Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use

Observer: Aaron					Date: 9/28/14		Time Start: 12:15			Time End: 14:40			Weather: Sunny 76										
							Start Count:			End Count:													
Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
2 Toyota	F																						
Hybrid	F																						

Observer: Andrew					Date: 10/2/14		Time Start: 13:23			Time End: 15:36			Weather: cool, light mist										
							Start Count:			End Count:													
Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use

Observer: Andrew					Date: 10/2/14		Time Start: 13:23			Time End: 15:36			Weather: cool, light mist										
							Start Count:			End Count:													
Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use

Observer: Andrew					Date: 10/2/14		Time Start: 13:23			Time End: 15:36			Weather: cool, light mist										
							Start Count:			End Count:													
Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use

Observer:Laura					Date: 10/4/14		Time Start:10:11			Time End: 10:51			Weather: Rainy 58										
							Start Count:			End Count:													
Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
White minivan	F	-	-	-																			

Observer:Laura					Date: 10/4/14		Time Start:10:53			Time End: 11:33			Weather: Rainy 58										
							Start Count:			End Count:													
Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Mini School Bus	F	-	-	-																			
Black Jeep	F	-	-	-																			

Observer: Laura					Date: 10/4/14		Time Start: 11:41			Time End: 12:21			Weather: Rainy 60										
							Start Count:			End Count:													
Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Aaron					Date: 10/17/14		Time Start:10:00			Time End: 12:00			Weather: Breezy, sunny 65										
							Start Count:			End Count:													
Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Subaru	F																						
Toyota prius	F																						
Honda fit	F																						
BMW mini	F																						

Observer:Laura					Date: 10/17/14		Time Start:10:00			Time End: 12:00			Weather: Breezy, sunny 65									
							Start Count:			End Count:												



[illegible][illegible]

Observer: Lindsay		Date: 11/9/14		Time Start: 9:40		Time End: 10:20		Weather: cloudy 39															
				Start Count:		End Count:																	
Weekend or Weekday? Weekend		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
VT Navy Camry	F	-	-	-																			
Red Ford	F	-	-	-																			
Gray Subaru	F	-	-	-																			
Black Subaru	F	-	-	-																			
Gray Subaru Legacy	F	-	-	-																			
Red Jeep	F		10:05	-	1												1						
Silver Car	F		10:15	-	1												1						
Blue Car	F		10:16	-	2												2						

[illegible]

Observer: Andrew	Date: 11/19/14	Time Start: 7:47	Time End: 9:59	Weather: Cold, clear
		Start Count:	End Count:	

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Ford pickup	F	-	-	-																			

Observer: Lindsay

Date: 11/26/14

Time Start:

Time End:

Start Count:

End Count:

Weather: Snowstorm

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay

Date: 11/26/14

Time Start:

Time End:

Start Count:

End Count:

Weather: Snowstorm

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay

Date: 11/26/14

Time Start: 10:51

Time End: 11:31

Start Count:

End Count:

Weather: Snowing 34

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Aaron

Date: 11/30/14

Time Start:

Time End:

Start Count:

End Count:

Weather: Wet 62, cloudy

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
SUV Subaru	F	-	-	-																			

Notes: 9:30-10:10 Rose Ledge, 10:20-11:00 Wells Street, 11:00-11:40 Rt 2 lot 1 car

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay

Date: 12/3/14

Time Start: 8:30

Time End: 9:10

Start Count:

End Count:

Weather: 22 Sunny

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay

Date: 12/3/14

Time Start: 9:12

Time End: 9:52

Start Count:

End Count:

Weather: 23 Sunny

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay

Date: 12/5/14

Time Start: 7:40

Time End: 8:20

Start Count:

End Count:

Weather: 21 Sunny

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Aaron

Date: 12/7/14

Time Start: 9:00

Time End: 10:50

Start Count:

End Count:

Weather: Sunny 38

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Hyundai	F	-	-	-																			
Toyota	F	-	-	-																			

Notes: Rt 2- 2 9:00-9:40, Wells St-0 9:40-10:00, Rose Ledge- 0 10:10-10:50

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Notes: Rt 2 8:25-9:05 (0), Wells st 9:10-9:50 (0), Rose ledge 7:30-8:10 (0)

Observer: Andrew		Date: 12/16/14		Time Start: 12:22		Time End: 14:40		Weather: Cold, cloudy															
				Start Count:		End Count:																	
Weekend or Weekday?		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay		Date: 12/31/14		Time Start: 7:05		Time End: 7:50		Weather: 18 Partly sunny															
				Start Count:		End Count:																	
Weekend or Weekday? Weekday		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay		Date: 12/31/14		Time Start: 8:00		Time End: 8:45		Weather: 19 Sunny															
				Start Count:		End Count:																	
Weekend or Weekday? Weekday		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay		Date: 12/31/14		Time Start: 8:50		Time End: 9:35		Weather: 19 Sunny															
				Start Count:		End Count:																	
Weekend or Weekday? Weekday		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Wells St  
Rose Ledge  
Route 2

**Recreation Use Calibration Sheet**  
**Turners Falls/Northfield Mountain Projects - Site: Cabot Camp**

Observer: Mara McPartland					Date: 1/13/14		Time Start: 12:30		Time End: 14:30		Weather: clear, windy												
Weekend or Weekday? Weekday					Start Count: End Count: Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Rob Mills					Date: 1/18/14		Time Start: 11:15		Time End: 13:15		Weather: cold, snowy												
Weekend or Weekday? Weekend					Start Count: End Count: Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
white subaru	F	OS	OS	1				1															
Green outback	F	OS	OS	1				1															

Observer: Mara McPartland					Date: 1-20-14		Time Start: 9:45		Time End: 11:45		Weather: clear, sunny												
Weekend or Weekday? Weekday					Start Count: End Count: Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
small white	F	10:25	11:20	2																			2

Observer: Rob Mills					Date: 2/6/14		Time Start: 17:10		Time End: 17:30		Weather: clear												
Weekend or Weekday? Weekday					Start Count: End Count: Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
closed with snow																							

Observer: Rob Mills					Date: 2/7/14		Time Start: 16:30		Time End: 18:30		Weather: clear												
Weekend or Weekday? Weekday					Start Count: End Count: Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
subaru	F	17:25	15:30	1																			1

Observer: Rob Mills					Date: 2/9/14		Time Start: 9:30		Time End: 11:30		Weather: clear												
Weekend or Weekday? Weekend					Start Count: End Count: Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
black sedan	F	10:00	11:15	3								3											
grey 4x4	F	10:20	OS	1																1			

Observer: Rob Mills					Date: 2/17/14		Time Start: 9:15		Time End: 11:15		Weather: clear												
Weekend or Weekday? Weekday					Start Count: End Count: Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Rob Mills					Date: 2/22/14		Time Start: 8:50		Time End: 10:50		Weather: clear												
Weekend or Weekday? Weekend					Start Count: End Count: Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
white ford	F	9:30	10:30	3																			

Observer: Sarah Doyle					Date: 3/16/14		Time Start: 13:30		Time End: 15:30		Weather: 25, sunny, beautiful												
Weekend or Weekday? Weekend					Start Count: End Count: Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Sarah Doyle					Date: 3/19/14		Time Start: 15:15		Time End: 17:15		Weather: 42, grey												
Weekend or Weekday? Weekend					Start Count: End Count: Number of People Participating in Activity During Visit																		





[illegible]





Observer: Andrew		Date: 8/30/14		Time Start: 13:17		Time End: 15:17		Weather: Warm, sunny																
				Start Count: 56		End Count: 60																		
Weekend or Weekday? Weekend		Number of People Participating in Activity During Visit																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping boat (Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt		Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
E Chevy lumina	F	-	-	2						2														
Bicyclist	F	13:49	13:49	2																2				
E Chevy sedan	F	14:26	14:38	1																				
E Pontiac sedan	F	15:00	-	1						1														
E Jeep	F	15:08	-	2																				
E Toyota Rav 4	F	15:10	-	2																				
E: East of river parking																								

[illegible]

Observer: Laura		Date: 9/27/14		Time Start: 14:39		Time End: 16:39		Weather: Sunny 80															
				Start Count: 122		End Count: 138																	
Weekend or Weekday? Weekend		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping boat (Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
White Sportscar *	F	-	15:10	2																2			
Blue Van	F	-	15:54	2		2																	
Gray Honda	F	-	-	-																			
Black Chevy Cobalt	F	15:00	15:20	4																			4
Gold pickup	F	16:01	-	1																			1
Silver Hatchback	F	16:03	16:03	2																			2
* Erving side of footbridge																							

[illegible]

Observer: Laura	Date: 10/1/14	Time Start: 0:00	Time End: 10:00	Weather: Overcast 50
		Start Count: 51	End Count: 59	
Weekend or Weekday? Weekend				
Number of People Participating in Activity During Visit				



[illegible]



[illegible]



[illegible]

[illegible]

[illegible]

Appears to be a firstlight employee

Observer: Andrew	Date: 7/6/14	Time Start: 10:05	Time End: 12:05	Weather: Warm, sunny
		Start Count: 453 #2, 1365, #3 739	End count: 565, #2 1433, #3 747	
Weekend or Weekday? Weekend		Number of People Participating in Activity During Visit		

[illegible]

[illegible]

Observer: Andrew		Date: 7/31/14		Time Start: 12:30		Time End: 14:30		Weather: warm, mostly sunny															
				Start Count: see notes		End count: 1323 nature area, 406 german club, 448 campground																	
Weekend or Weekday? Weekday				Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
chevy pickup	F	-	-	-																			
Dodge caravan	F	-	-	-																			
Honda odyssey	F	-	-	-																			
Chrysler minivan	F	-	-	-																			
Honda SUV	F	-	-	-																			
Toyota Corolla	F		13:40	-		1																	1
Ford Sedan	F		13:52	-		2					2												
Firstlight truck	F		13:55	-		1																	1
VW	F	-	-	-																			

Notes: entrance 1186/1208, german 625/629, campground 246/248

Observer: Aaron		Date: 8/2/14	Time Start: 18:20		Time End:20:20		Weather:																
		Start Count: See notes		End count:																			
Weekend or Weekday? Weekend		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barlow Cove)	Fish	Picnic	Walk/ Hike/Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Toyota pickup	F	-	18:30	1																			1
Green pickup	F	-	19:30	1								1											
Honda accord	F	-	18:25	1																			1
Mazda car	F	-	18:25	1																			1
Firstlight truck	F	-	19:24	1																			1
Environmental police truck	F	-	18:30	1																			1
Enviornmental police truck	F	-	-	1																			1
Black SUV	F	-	18:20	1																			
Subaru outback	F	-	18:25	1																			
Toyota*	F	-	18:25	1																			1
Jeep*	F	-	18:25	1																			1
Other car*	F	-	18:30	1																			1
Other Car*	F	-	18:30	1																			1
Nissan*	F	-	18:31	1																			1
Hyundai car	F	-	18:35	2								2											1
Chevy equinox*	F	-	18:35	2																			2
Toyota camry	F	-	18:35	3								3											
GMC pickup	F	-	18:36	1																			
Ford Taurus*	F	-	-	1																			
Ford 500*	F	-	18:38	1																			
Ford car*	F	-	18:40	1																			
Toyota car	F	-	18:40	1																			
Toyota Corolla*	F	-	18:40	1								1											
Ford pickup*	F	-	18:45	1																			1
Honda truck C	F	-	-																				
Black pickup C	F	-	18:45	-																			1
pickup C	F	-	-																				1
Silver SUV	F	-	-																				1
Gray F150*	F	-	18:50	1																			1
Chevy silverado*	F	-	18:55	1																			1
Firstlight truck	F	-	18:55	1																			
Chevy Truck*	F	-	19:00	2																			2
Ford F 350*	F	-	19:02	1																			

[illegible]











Weather: cold, cloudy

Weather: cold, cloudy

Number of People Participating in Activity During Visit

[illegible]















[illegible]

Observer: Mara McPartland					Date: 5/19/14		Time Start: 14:39		Time End: 16:39		Weather: sunny 71												
Weekend or Weekday? Weekend					Start Count:		End Count:		Number of People Participating in Activity During Visit														
					Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People																			
mercedes	F	OS	15:39	0																			
truck	F	OS	OS	4							2								2				
ford	F	OS	OS	0																			
toyota camry	F	OS	15:00	5							5												
camry	F	OS	OS	0																			
orange prius	F	OS	14:45	2							2												
red camry	F	OS	14:49	1							1												
gold small	F	OS	15:39	0																			
red small car	F	OS	14:50	3							3												
honda grey	F	OS	OS	0																			
truck	F	OS	15:10	0																			
blue with bike	F	OS	OS	0																			
grey camry	F	OS	OS	0																			
gold small	F	OS	15:39	0																			
blue suv	F	OS	OS	1																			
small white	F	15:00	15:02	3							3								1				
on foot	F	15:00	15:00	1																			1
small blue	F	OS	OS	2							2												
on foot	F	OS	15:02	2							2												
on foot	F	OS	15:05	4							4												
car	F	OS	OS	1																			
small grey	F	15:06	15:07	2																			1
on bike	F	15:07	15:07	3																2			
on skateboards	F	15:08	15:08	3					3													3	
small grey	F	15:09	15:39	1																			
on bike	F	15:10	15:10	2															1				2
grey suv	F	15:20	15:20	1																			
saab	F	15:15	15:35	1							1								1				
on bike	F	15:20	15:20	1																			
triangle	F	15:18	OS	2							2								1				
on foot	F	15:15	15:25	2							2												
on foot	F	15:20	15:20	1							1												
on bike	F	15:25	15:25	6																		6	
on bike	F	15:26	15:26	4																		4	



[illegible]

[illegible]



[illegible]











[illegible]







Observer: Laura		Date: 6/14/2014			Time Start: 08:50			Time End: 10:50			Weather: Partly Cloudy 70°F													
Weekend or Weekday? Weekend					Start Count:																			
					End Count:																			
					Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use	
On Foot	F	9:12	9:12	1							1													
On Foot	F	9:18	9:18	1							1													
Bike	F	9:25	9:25	4															4					
Bike	F	9:46	9:46	1																1				
On Foot	F	9:52	9:52	2							2													
On Foot	F	9:52	9:52	3							3													
On Foot	F	9:55	9:55	7																7				
On Foot	F	10:00	10:00	2							2													
On Foot	F	10:01	10:01	2							2													
Bike	F	10:32	10:32	1																				
On Foot	F	10:34	10:34	1							1									1				
Bike	F	10:35	10:35	2																				
On Foot	F	10:37	10:37	2							2													
On Foot	F	10:38	10:38	2							2									2				
On Foot	F	10:39	10:39	1							1													
Bike	F	10:42	10:42	2																2				
Bike	F	10:43	10:43	1																1				
On Foot	F	10:45	10:45	2							2													
Bike	F	10:47	10:47	2																2				
Bike	F	10:48	10:48	1																1				

Observer: Laura		Date: 5/17/2014			Time Start: 16:20			Time End: 18:20			Weather: Sunny 83°F												
Weekend or Weekday? Weekday					Start Count:																		
					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Bike	F	16:35	16:35	2																2			
Bike	F	16:35	16:35	2																2			
Bike	F	16:36	16:36	1																1			
On Foot	F	16:41	16:41	3								3											
Bike	F	16:47	16:47	3																			
On Foot	F	16:55	16:55	2								2								3			
On Foot	F	17:07	17:07	1								1											
Bike	F	17:07	17:07	1																			
Bike	F	17:12	17:12	3																			
Bike	F	17:29	17:29	1																			
On Foot	F	17:34	17:34	2								2								1			
On Foot	F	17:42	17:42	2								2											
On Foot	F	17:44	17:44	1								1											
Bike	F	17:44	17:44	2																2			
Bike	F	17:45	17:45	1																1			
On Foot	F	17:52	17:52	2								2											
Bike	F	18:07	18:07	1																			
Bike	F	18:10	18:10	2																2			
Bike	F	18:14	18:14	1																1			

[illegible]

Observer: Andrew	Date: 6/26/14	Time Start: 13:40	Time End: 15:40	Weather: Hot, humid, sunny
Weekend or Weekday? Weekday	Start Count:	End Count:	Number of People Participating in Activity During Visit	





Observer: Chris		Date: 7/15/14			Time Start: 12:40		Time End: 14:40		Weather: Sunny, hazy, humid 70's														
					Start Count: N/A		End Count: N/A																
Weekend or Weekday? Weekday		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Bicycle	F		12:47 -	1																1			
Bicycle	F		12:50 -	1																			
bicycle X 2	F		13:14 -	2																			
Pedestrian	F		13:16 -	1								1								2			
Pedestrian	F		13:26 -	1								1											
Bicycle	F		13:51 -	1																1			

[illegible]

Notes: Users who didn't park in parking lot \*

Observer: Chris	Date: 7/20/14	Time Start: 12:28	Time End: 14:28	Weather: Mostly cloudy																			
		Start Count:N/A	End Count:N/A																				
Weekend or Weekday? Weekend	Number of People Participating in Activity During Visit																						
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Pedestrian	F	12:31		1																			
Bicycle X 2	F	12:36		2																2			
Pedestrian	F	12:37		1								1											
Bicycle X 2	F	12:37		2																2			
Bicycle X 2	F	12:42		2																2			
Bicycle	F	12:50		1																1			
Pedestrian X 2	F	12:52		2								2											
Bicycle	F	12:54		1																1			
Bicycle X 2	F	13:09		2																2			
Bicycle X 2	F	13:19		2																2			
Bicycle	F	13:21		1																1			
Pedestrian X 2	F	13:22		2								2											
Pedestrian X 2	F	13:33		2								2											
Bicycle X 2	F	13:38		2																2			
Bicycle	F	13:38		1																1			
Golf cart	F	13:39		1																			1
Bicycle	F	13:47		1																1			
Bicycle	F	13:48		1																1			

















Observer: Aaron				Date: 7/26/14	Time Start: 11:00				Time End: 13:00				Weather: Sunny/breezy 79										
					Start Count: 0				End Count: 0														
Weekend or Weekday? Weekend				Number of People Participating in Activity During Visit																			
				Total # of			Whitewater	Camping			Walk/ Hike/												
Vehicle Description	Trailer T/F	Time In	Time Out	People	Motor boat	Non motor	boat (Bypass	(excl. Barton	Fish	Picnic	Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec	Non Rec Use
						boat	only)	Cove)							Boat						Use		

[illegible][illegible]

Notes: No users today

[illegible][illegible][illegible]

Observer: Laura

Date: 9/23/14

Time Start: 16:45

Time End: 18:45

Weather: Sunny 62

Start Count: 0

End Count: 0

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Andrew Palmer

Date: 9/28/14

Time Start: 11:42

Time End: 13:45

Weather: warm, sunny

Start Count: 0

End Count: 0

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Laura

Date: 10/2/14

Time Start: 13:40

Time End:

Weather: Mostly Cloudy 63

Start Count:

End Count:

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Contractor Truck	F	-	13:53	2																			2
Truck- parked on road	F	14:49	14:58	2																			2

Observer: Laura

Date: 10/11/14

Time Start: 12:16

Time End: 14:16

Weather: Overcast 50

Start Count:

End Count:

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Andrew Palmer

Date: 10/16/14

Time Start: 10:44

Time End: 12:44

Weather: cool, rainy

Start Count:

End Count:

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay

Date: 10/22/14

Time Start: 13:26

Time End: 15:26

Weather: Cloudy Sprinkling, Windy

Start Count:

End Count:

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Firstlight Truck	F	-	-	-																			
Firstlight Truck	F	14:25	14:56	1																			1

Observer: Andrew Palmer

Date: 10/23/14

Time Start: 12:43

Time End: 14:43

Weather: rainy

Start Count:

End Count:

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Firstlight Truck	F	-	-	2																			2

Observer: Aaron

Date: 10/26/14

Time Start: 12:00

Time End: 14:00

Weather: 51 cool, sprinkles

Start Count:

End Count:

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay

Date: 11/2/14

Time Start: 10:00

Time End: 12:00

Weather: Partly Cloudy 37

Start Count:

End Count:

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Andrew

Date: 11/7/14

Time Start: 10:55

Time End: 12:55

Weather: Cool, overcast

Start Count:

End Count:

Weekend or Weekday? Weekday

Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Aaron

Date: 11/8/14

Time Start: 10:00

Time End: 12:00

Weather: 48 Sunlight

Start Count:

End Count:

Weekend or Weekday? Weekend

Vehicle Description

Trailer T/F

Time In

Time Out

Total # of People

Motor boat

Non motor boat

Whitewater

Camping

ex

Fish

Picnic

Walk/ Hike/

X-C Ski

Snow Shoe

Ice Fish

Ice Skate/ Bq

Climb

Hunt

Ride Horses

Ride Bikes

Sight see

Birding

Other Rec U

Non Rec Use

Observer: Lindsay

Date: 11/19/14

Time Start: 13:07

Time End: 15:07

Weather: 27 Mostly Sunny

Weekend or Weekday? Weekend

Start Count:

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description

Trailer T/F

Time In

Time Out

Total # of People

Motor boat

Non motor boat

Whitewater

Camping

ex

Fish

Picnic

Walk/ Hike/

X-C Ski

Snow Shoe

Ice Fish

Ice Skate/ Bq

Climb

Hunt

Ride Horses

Ride Bikes

Sight see

Birding

Other Rec U

Non Rec Use

Observer: Andrew

Date: 11/26/14

Time Start: 11:58

Time End: 13:58

Weather: Cold, snow

Weekend or Weekday? Weekend

Start Count:

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description

Trailer T/F

Time In

Time Out

Total # of People

Motor boat

Non motor boat

Whitewater

Camping

ex

Fish

Picnic

Walk/ Hike/

X-C Ski

Snow Shoe

Ice Fish

Ice Skate/ Bq

Climb

Hunt

Ride Horses

Ride Bikes

Sight see

Birding

Other Rec U

Non Rec Use

Observer: Lindsay

Date: 11/29/14

Time Start: 9:42

Time End: 11:42

Weather: Mostly sunny 18

Weekend or Weekday? Weekend

Start Count:

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description

Trailer T/F

Time In

Time Out

Total # of People

Motor boat

Non motor boat

Whitewater

Camping

ex

Fish

Picnic

Walk/ Hike/

X-C Ski

Snow Shoe

Ice Fish

Ice Skate/ Bq

Climb

Hunt

Ride Horses

Ride Bikes

Sight see

Birding

Other Rec U

Non Rec Use

Observer: Andrew

Date: 12/7/14

Time Start: 11:22

Time End: 13:22

Weather: Cold, clear

Weekend or Weekday? Weekend

Start Count:

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description

Trailer T/F

Time In

Time Out

Total # of People

Motor boat

Non motor boat

Whitewater

Camping

ex

Fish

Picnic

Walk/ Hike/

X-C Ski

Snow Shoe

Ice Fish

Ice Skate/ Bq

Climb

Hunt

Ride Horses

Ride Bikes

Sight see

Birding

Other Rec U

Non Rec Use

Observer: Aaron

Date: 12/13/14

Time Start: 9:35

Time End: 11:35

Weather: 41, sunny

Weekend or Weekday? Weekend

Start Count:

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description

Trailer T/F

Time In

Time Out

Total # of People

Motor boat

Non motor boat

Whitewater

Camping

ex

Fish

Picnic

Walk/ Hike/

X-C Ski

Snow Shoe

Ice Fish

Ice Skate/ Bq

Climb

Hunt

Ride Horses

Ride Bikes

Sight see

Birding

Other Rec U

Non Rec Use

Observer: Andrew

Date: 12/14/14

Time Start: 9:39

Time End: 11:39

Weather: Cold, cloudy

Weekend or Weekday? Weekend

Start Count:

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description

Trailer T/F

Time In

Time Out

Total # of People

Motor boat

Non motor boat

Whitewater

Camping

ex

Fish

Picnic

Walk/ Hike/

X-C Ski

Snow Shoe

Ice Fish

Ice Skate/ Bq

Climb

Hunt

Ride Horses

Ride Bikes

Sight see

Birding

Other Rec U

Non Rec Use

Observer: Lindsay

Date: 12/16/14

Time Start: 6:37

Time End: 8:37

Weather: 31, cloudy

Weekend or Weekday? Weekend

Start Count:

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description

Trailer T/F

Time In

Time Out

Total # of People

Motor boat

Non motor boat

Whitewater

Camping

ex

Fish

Picnic

Walk/ Hike/

X-C Ski

Snow Shoe

Ice Fish

Ice Skate/ Bq

Climb

Hunt

Ride Horses

Ride Bikes

Sight see

Birding

Other Rec U

Non Rec Use

Observer: Andrew

Date: 12/31/14

Time Start: 9:34

Time End: 11:34

Weather: cold, mostly cloudy

Weekend or Weekday? Weekend

Start Count:

Weekend or Weekday? Weekend

Number of People Participating in Activity During Visit

Vehicle Description

Trailer T/F

Time In

Time Out

Total # of People

Motor boat

Non motor boat

Whitewater

Camping

ex

Fish

Picnic

Walk/ Hike/

X-C Ski

Snow Shoe

Ice Fish

Ice Skate/ Bq

Climb

Hunt

Ride Horses

Ride Bikes

Sight see

Birding

Other Rec U

Non Rec Use



















[illegible]

Observer: Chris                      Date: 7/19/14                      Time Start: 12:50                      Time End: 14:50                      Weather: S 70'sunny, breezy

[illegible]

Observer: Chris      Date: 7/20/14      Time Start: 12:28      Time End: 14:28      Weather: Mostly clouds

[illegible]

Observer: Aaron      Date: 7/26/14      Time Start: 13:00      Time End: 15:00      Weather: Mostly clouds

Weekend or Weekday?		Weekend		Number of People Participating in Activity During Visit																			
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Bike	F	13:00	-	1																1			
Bike	F	13:00	-	1																1			
Toyota SUV	F	13:00	-	-																			
Bike	F	13:10	-	1																1			
Bike	F	13:10	-	1																1			
Red pickup	F	-	13:10	-																			
Toyota sedan	F	-	13:10	-																			
Toyota pickup	F	13:50	14:30	1						1													
bike	F	13:55	-	1																			
dodge pickup	F	14:00	-	4						4										1			
dodge pickup	F	14:00	14:05	1																			1
Bike	F	14:15	-	1																1			

Observer: Aaron Date: 7/31/14 Time Start: 8:00 Time End: 10:00 Weather: Cloudy 60

[illegible]

Observer: Andrew      Date: 8/2/14      Time Start: 14:15      Time End: 16:15      Weather: Warm, sunny

Weekend or Weekday? Weekend	Number of People Participating in Activity During Visit









Start Count: \_\_\_\_\_ End Count: \_\_\_\_\_





[illegible]

Observer:	Aaron	Date:	12/13/2014	Time Start:	11:40	Time End:	13:40	Weather:	42 sunny														
Weekend or Weekday?				Weekend	Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
*Bike path* no vehicle	-	11:40	13:40	7							7												
RAV 4 SUV	F	12:00	13:40	2																			2
RAV 4 SUV	F	13:00	-																				
Small SUV	F	-	12:30	1																			1
Nissan	F	13:40	-								2												
*bike*	F	13:40	-	1															1				

[illegible][illegible][illegible]









Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Toyota Corolla	F	11:47	12:13	1							1												
Golf Cart	F	12:49	12:55	1																			1
Ford Focus	F	13:25	13:27	1																			1

Observer: Andrew Date: 6/28/14 Time Start: 11:15 Time End: 13:15 Weather: Hot, sunny  
Start Count: 34 End Count: 34

Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Andrew Date: 7/2/14 Time Start: 15:20 Time End: 17:20 Weather: Thunderstorms  
Start Count: 6 End Count: 6

Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Walker	F	15:55	15:55	1																			1

Observer: Chris Date: 7/5/14 Time Start: 15:00 Time End: 17:00 Weather: Sunny breezy 70's  
Start Count: 34 End Count: 34

Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Pedestrian	F	16:50	16:51	1								1											

Notes: Took dog to area so it could to bathroom

Observer: Chris Date: 7/15/14 Time Start: 14:50 Time End: 16:50 Weather: Cloudy, on & off str  
Start Count: 225 End Count: 225

Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Notes: No users today

Observer: Chris Date: 7/20/14 Time Start: 14:35 Time End: 16:35 Weather: Partly cloudy  
Start Count: 662 End Count: 690

Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Gray volvo	F	15:01	15:20	1			1																
Firstlight truck	F	15:02	15:25	1																			1
White firstlight truck	F	15:02	15:13	1																			1
Firstlight truck	F	15:04	15:22	3																			3
Van white	F	15:04	15:30	2																			2
Firstlight truck	F	15:05	15:27	1																			1

Notes: Users are a part of study with Bud and Heather

Also helpin

Observer: Aaron Date: 7/26/14 Time Start: 15:00 Time End: 17:00 Weather: Sunny 80, light bre  
Start Count: 158 End Count: 161

Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Mazda SUV	T	-	-	-																			
Buick	F	-	15:25	1		1																	
Toyota pickup	F	-	-	-																			

Observer: Aaron Date: 7/31/14 Time Start: 10:05 Time End: 12:05 Weather: Lt. Rain 65  
Start Count: 191 End Count: 191

Weekend or Weekday? Weekday					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Andrew Date: 8/2/14 Time Start: 7:45 Time End: 9:45 Weather: Mild, cloudy  
Start Count: End Count:

Weekend or Weekday? Weekend					Number of People Participating in Activity During Visit																		
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Satum	F	-	-	-																			

Observer: Aaron Date: 8/7/14 Time Start: 12:05 Time End: 14:05 Weather: Sun/clouds 76  
Start Count: 258 End Count:

Weekend or Weekday? Weekday Number of People Participating in Activity During Visit

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Walker	F	12:45	12:45	2							2												
Ford SUV	F	13:00	13:00	2		2																	

Observer: Laura Date: 8/9/14 Time Start: 15:35 Time End: 17:35 Start Count: 54 End Count: 65 Weather: Mostly Sunny 80

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Red SUV	F	-	15:46	1					1														
Gray sedan	F	-	15:55	3					3														
-	F	15:55	16:17	1							1												
-	F	-	-	1		1																	
-	F	17:05	17:12	1							1												
Silver prius	F	17:20	-	1		1																	

Observer: Chris Date: 8/16/14 Time Start: 16:10 Time End: 18:10 Start Count: 43 End Count: 43 Weather: Partly cloudy/cloudy

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Notes: No users today

Observer: Chris Date: 8/20/14 Time Start: 14:50 Time End: 16:50 Start Count: 169 End Count: 174 Weather: Mostly sunny

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Gray toyota	F	15:12	15:22	1							1												

Observer: Andrew Date: 8/31/14 Time Start: 8:51 Time End: 10:51 Start Count: 230 End Count: 230 Weather: Warm, humid, partly sunny

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
GMC truck	F	9:24	10:25	1					1														
Chevy sedan	F	9:26	-	3					3														
Suburban outback	F	10:28	-	2		2																	

Observer: Andrew Palmer Date: 9/9/2014 Time Start: 15:46 Time End: 17:46 Start Count: 145 End Count: 145 Weather: warm, mostly sunny

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Bikes	-	-	-	2															2				

Observer: Laura Date: 9/11/14 Time Start: 14:10 Time End: 16:10 Start Count: End Count: Weather: Overcast 76

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Blue Jeep	F	-	-	1					1														
Blue SUV	F	-	15:15	1					1														
Gold Sedan	F	-	15:38	1					1														
N/A	F	15:25	15:35	1							1												
Blue SUV	F	16:06	16:07	1																			1

Observer: Aaron Date: 9/20/14 Time Start: 16:00 Time End: 18:00 Start Count: 84 End Count: 84 (car parked on side of strip) Weather: Cloudy 69

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Large Van	T	-	-	1		T*																	
Car	T	-	16:10	2						2													

\* Trailer with canoe rack

Observer: Laura Date: 9/23/14 Time Start: 12:40 Time End: 14:40 Start Count: 93 End Count: 95 Weather: Sunny, breezy 63

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Silver Hatchback	F	-	13:38	1					1														
Black Honda Accord	F	12:26	-	1					1														

Observer: Andrew Palmer Date: 9/28/2014 Time Start: 9:35 Time End: 11:35 Start Count: 243 End Count: 255 Weather: mild, foggy

Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
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Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Toyota tundra	F	-	-	-																2			
Ford SUV	F	9:40	-	3					3											2			

Observer: Laura Date: 10/2/14 Time Start: 9:30 Time End: 11:30 Start Count: 204 End Count: Weather: Overcast 60

Weekend or Weekday? Weekday		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
N/A	-	9:56	9:58	1							1												

Observer: Aaron Date: 10/5/2014 Time Start: 6:00 Time End: 8:00 Start Count: 131 End Count: Weather: 46 cool, breezy

Weekend or Weekday? Weekend		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Laura Date: 10/11/14 Time Start: 16:30 Time End: 18:30 Start Count: 27 End Count: 30 Weather: Mostly Sunny 55

Weekend or Weekday? Weekend		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
White SUV	F	-	-	-																			
N/A	-	17:02	17:02	1							1												
Red Pickup	F	17:40	-	2							2												
Gray Sedan	F	17:53	-	1					1		2												

Observer: Andrew Palmer Date: 10/16/2014 Time Start: 15:00 Time End: 17:00 Start Count: Weather: cool, rainy

Weekend or Weekday? Weekday		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay Date: 10/22/14 Time Start: 9:10 Time End: 11:10 Start Count: 42 End Count: 46 Weather: Sprinkling Cold Gray Sky

Weekend or Weekday? Weekday		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Silverado Truck	F	9:53	-	1					1														
Prism Small Car	F	10:34	10:41	1							1*												

Observer: Andrew Palmer Date: 10/23/2014 Time Start: 14:52 Time End: 16:52 Start Count: 62 End Count: Weather: rainy, cold

Weekend or Weekday? Weekday		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Aaron Date: 10/26/2014 Time Start: 16:00 Time End: 18:00 Start Count: End Count: Weather: "misting" 51 cool, cloudy, wet

Weekend or Weekday? Weekend		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Lindsay Date: 11/02/14 Time Start: 14:10 Time End: 16:10 Start Count: 42 End Count: 46 Weather: Mostly Sunny 43

Weekend or Weekday? Weekend		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
-	-	-	-	-																			

Observer: Andrew Palmer Date: 11/7/2014 Time Start: 15:13 Time End: 17:13 Start Count: End Count: Weather: cool, overcast

Weekend or Weekday? Weekday		Number of People Participating in Activity During Visit																					
Vehicle Description	Trailer T/F	Time In	Time Out	Total # of People	Motor boat	Non motor boat	Whitewater boat (Bypass only)	Camping (excl. Barton Cove)	Fish	Picnic	Walk/ Hike/ Jog	X-C Ski	Snow Shoe	Ice Fish	Ice Skate/ Boat	Climb	Hunt	Ride Horses	Ride Bikes	Sight see	Birding	Other Rec Use	Non Rec Use
Chevy SUV	F	16:05	16:05	1																			1

Observer: Aaron Date: 11/8/2014 Time Start: 14:05 Time End: 16:05 Start Count: 4 End Count: 4 Weather: 54 sunny

Weekend or Weekday? Weekend		Number of People Participating in Activity During Visit																					
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[illegible]

**Appendix A-4: Campground Occupancy data spreadsheets at Munn's Ferry and Barton Cove for the years 2010-2014**

## 2014 Munn's Ferry Boat Access Campground Occupancy

Campground open Friday night May 23, 2014 through Sunday night October 12, 2014 with 5 sites

Number of nights open for camping 143

Number of site nights for the season 715

Number of site nights occupied in 2014 93

2014 Season occupancy rate 13.0%

Month	Weekend nights				Weekday nights				
	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	
May	5	25	0	0.0%	4	20	0	0.0%	
June	8	40	13	32.5%	22	110	6	5.5%	
July	8	40	15	37.5%	23	115	10	8.7%	
August	11	55	32	58.2%	20	100	6	6.0%	
Sept	8	40	8	20.0%	22	110	3	2.7%	
Oct	5	25	0	0.0%	7	35	0	0.0%	
Total	45	225	68	30.2%	98	490	25	5.1%	
Weekend occupancy rate				30.2%	Weekday occupancy rate				5.1%

Occupancy by month			
# of nights in month	# site nights	# of sites occupied	percent occupied
9	45	0	0.0%
30	150	6	4.0%
31	155	10	6.5%
31	155	6	3.9%
30	150	3	2.0%
12	60	0	0.0%
143	715	93	13.0%
Season occupancy rate		13.0%	

## 2014 Barton Cove Campground Occupancy

Campground open Friday night May 23, 2014 through Sunday night August 31, 2014 with 29 single sites and 2 group sites.

Number of nights open for camping	184
Number of site nights for the season:	
Single sites	2929
Group sites	368
Total site nights for all sites	3297
Number of site nights occupied in 2014:	
Single sites	493
Group sites	64
Total number of site nights occupied in 2014	557
2014 Season occupancy rate	16.9%

Individual Sites												
Weekend nights					Weekday nights				Occupancy by month			
	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights available	# of sites occupied	percent occupied
May	5	145	17	11.7%	4	116	3	2.6%	9	261	20	7.7%
June	8	232	81	34.9%	22	638	26	4.1%	30	870	107	12.3%
July	8	232	108	46.6%	23	667	59	8.8%	31	899	167	18.6%
August	11	319	136	42.6%	20	580	63	10.9%	31	899	199	22.1%
Camping season ended Labor Day Monday September 1, 2014												
Total	32	928	342	36.9%	69	2001	151	7.5%	101	2929	493	16.8%
Weekend occupancy rate				36.9%	Weekday occupancy rate				7.5%	Total for individual sites		16.8%

Group Sites													
Weekend nights					Weekday nights				Occupancy by month				
Month	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights available	# of sites occupied	percent occupied	
May	5	10	6	60.0%	4	8	0	0.0%	9	18	6	33.3%	
June	8	16	4	25.0%	22	44	1	2.3%	30	60	5	8.3%	
July	8	16	10	62.5%	23	46	13	28.3%	31	62	23	37.1%	
August	11	22	11	50.0%	20	40	15	37.5%	31	62	26	41.9%	
Sept	8	16	3	18.8%	22	44	1	2.3%	30	60	4	6.7%	
Oct	9	18	0	0.0%	22	44	0	0.0%	31	62	0	0.0%	
Nov	7	14	0	0.0%	15	30	0	0.0%	22	44	0	0.0%	
No group sites were occupied after September 30, 2014													
Total	56	112	34	30.4%	128	256	30	11.7%	184	368	64	17.4%	
Weekend occupancy rate				30.4%	Weekday occupancy rate				11.7%		Total for group sites		17.4%

Occupancy for all site types by month				
Month	# of nights in month	# site nights available	# of sites occupied	percent occupied
May	9	279	26	9.3%
June	30	930	112	12.0%
July	31	961	190	19.8%
August	31	961	225	23.4%
Sept	30	60	4	6.7%
Oct	31	62	0	0.0%
Nov	22	44	0	0.0%
Season	184	3297	557	16.9%

## 2013 Munn's Ferry Boat Access Campground Occupancy

Campground open Friday night May 29, 2013 through Sunday night October 13, 2013 with 5 sites

Number of nights open for camping 139

Number of site nights for the season 695

Number of site nights occupied in 2013 81

2013 Season occupancy rate 11.7%

Month	Weekend nights				Weekday nights				
	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	
May	1	5	0	0.0%	2	10	0	0.0%	
June	10	50	5	10.0%	20	100	1	1.0%	
July	8	40	13	32.5%	23	115	3	2.6%	
August	10	50	30	60.0%	21	105	13	12.4%	
Sept	9	45	11	24.4%	21	105	3	2.9%	
Oct	5	25	2	8.0%	9	45	0	0.0%	
Total	43	215	61	28.4%	96	480	20	4.2%	
Weekend occupancy rate				28.4%	Weekday occupancy rate				4.2%

Occupancy by month			
# of nights in month	# site nights	# of sites occupied	percent occupied
3	15	0	0.0%
30	150	6	4.0%
31	155	16	10.3%
31	155	43	27.7%
30	150	14	9.3%
14	70	2	2.9%
139	695	81	11.7%
Season occupancy rate			11.7%



### 2013 Barton Cove Campground Occupancy

Campground open Friday night May 24, 2013 through Sunday night September 1, 2013 with 29 single sites and 2 group sites.

Number of nights open for camping	179
Number of site nights for the season:	
Single sites	2752
Group sites	358
Total site nights for all sites	3110
Number of site nights occupied in 2013:	
Single sites	523
Group sites	70
Total number of site nights occupied in 2013	593
2013 Season occupancy rate	19.1%

Individual Sites													
Weekend nights					Weekday nights				Occupancy by month				
Month	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights available	# of sites occupied	percent occupied	
May	4	112	24	21.4%	4	112	5	4.5%	8	224	29	12.9%	
June	10	282	54	19.1%	15	418	19	4.5%	25	701	73	10.4%	
July	8	232	123	53.0%	23	667	73	10.9%	31	899	196	21.8%	
August	10	290	152	52.4%	21	609	60	9.9%	31	899	212	23.6%	
Sept	0	0	0	#DIV/0!	1	29	13	44.8%	1	29	13	44.8%	
Total	32	916	353	38.5%	64	1835	170	9.3%	96	2752	523	19.0%	
Weekend occupancy rate				38.5%	Weekday occupancy rate				9.3%		Total for individual sites		19.0%

Group Sites														
Weekend nights					Weekday nights				Occupancy by month					
Month	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied		
May	4	8	6	75.0%	4	8	0	0.0%	8	16	6	37.5%		
June	10	20	11	55.0%	15	30	0	0.0%	25	50	11	22.0%		
July	8	16	10	62.5%	23	46	13	28.3%	31	62	23	37.1%		
August	10	20	17	85.0%	21	42	6	14.3%	31	62	23	37.1%		
Sept	8	16	6	37.5%	22	44	1	2.3%	30	60	7	11.7%		
Oct	8	16	0	0.0%	23	46	0	0.0%	31	62	0	0.0%		
Nov	8	16	0	0.0%	15	30	0	0.0%	23	46	0	0.0%		
No group sites were occupied after September 30, 2013														
Total	56	112	50	44.6%	123	246	20	8.1%	179	358	70	19.6%		
Weekend occupancy rate				44.6%	Weekday occupancy rate				8.1%	Total for group sites				19.6%

Occupancy for all site types by month				
Month	# of nights in month	# site nights available	# of sites occupied	percent occupied
May	8	240	35	14.6%
June	25	775	84	10.8%
July	31	961	219	22.8%
August	31	961	235	24.5%
Sept	30	89	20	22.5%
Oct	31	62	0	0.0%
Nov	23	46	0	0.0%
Season	179	3134	593	18.9%

## 2012 Munn's Ferry Boat Access Campground Occupancy

Campground open Friday night May 25, 2012 through Sunday night October 7, 2012 with 5 sites

Number of nights open for camping 107

Number of site nights for the season 535

Number of site nights occupied in 2012 90

2012 Season occupancy rate 16.8%

Month	Weekend nights				Weekday nights				
	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	
May	3	15	3	20.0%	4	20	1	5.0%	
June	10	50	14	28.0%	20	100	6	6.0%	
July	0	0	0	#DIV/0!	3	15	5	33.3%	
August	9	45	30	66.7%	20	100	19	19.0%	
Sept	11	55	9	16.4%	19	95	2	2.1%	
Oct	3	15		0.0%	5	25	1	4.0%	
Total	36	180	56	31.1%	71	355	34	9.6%	
Weekend occupancy rate				31.1%	Weekday occupancy rate				9.6%

Occupancy by month			
# of nights in month	# site nights	# of sites occupied	percent occupied
7	35	4	11.4%
30	150	20	13.3%
3	15	5	33.3%
29	145	49	33.8%
30	150	11	7.3%
8	40	1	2.5%
107	535	90	16.8%
Season occupancy rate		16.8%	

## 2012 Barton Cove Campground Occupancy

Campground open Friday night May 25, 2012 through Sunday night September 2, 2012 with 29 single sites and 2 group sites.

Number of nights open for camping	177
Number of site nights for the season:	
Single sites	2929
Group sites	354
Total site nights for all sites	3283
Number of site nights occupied in 2012:	
Single sites	748
Group sites	84
Total number of site nights occupied in 2012	832
2012 Season occupancy rate	25.3%

Individual Sites												
Weekend nights					Weekday nights				Occupancy by month			
Month	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights available	# of sites occupied	percent occupied
May	3	87	47	54.0%	4	116	9	7.8%	7	203	56	27.6%
June	10	290	92	31.7%	20	580	41	7.1%	30	870	133	15.3%
July	8	232	166	71.6%	23	667	124	18.6%	31	899	290	32.3%
August	9	261	118	45.2%	22	638	101	15.8%	31	899	219	24.4%
Sept	2	58	50	86.2%	0	0	0	#DIV/0!	2	58	50	86.2%
Total	32	928	473	51.0%	69	2001	275	13.7%	101	2929	748	25.5%
Weekend occupancy rate				51.0%	Weekday occupancy rate				13.7%	Total for individual sites		25.5%

Group Sites														
Weekend nights					Weekday nights				Occupancy by month					
Month	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied		
May	3	6	5	83.3%	4	8	1	12.5%	7	14	6	42.9%		
June	10	20	8	40.0%	20	40	3	7.5%	30	60	11	18.3%		
July	8	16	15	93.8%	23	46	13	28.3%	31	62	28	45.2%		
August	9	18	14	77.8%	22	44	13	29.5%	31	62	27	43.5%		
Sept	11	22	6	27.3%	19	38	0	0.0%	30	60	6	10.0%		
Oct	8	16	4	25.0%	23	46	0	0.0%	31	62	4	6.5%		
Nov	6	12	2	16.7%	11	22	0	0.0%	17	34	2	5.9%		
Total	55	110	54	49.1%	122	244	30	12.3%	177	354	84	23.7%		
Weekend occupancy rate				49.1%	Weekday occupancy rate				12.3%	Total for group sites				23.7%

Occupancy for all site types by month				
Month	# of nights in month	# site nights available	# of sites occupied	percent occupied
May	7	217	62	28.6%
June	30	930	144	15.5%
July	31	961	318	33.1%
August	31	961	246	25.6%
Sept	30	118	56	47.5%
Oct	31	62	4	6.5%
Nov	17	34	2	5.9%
Season	177	3283	832	25.3%

## 2011 Munn's Ferry Boat Access Campground Occupancy

Campground open Friday night May 27, 2011 through Thursday night August 25, 2011 with 5 sites. Closed 8/26/11 for the season due to Hurricane Irene.

Number of nights open for camping	91
Number of site nights for the season	455
Number of site nights occupied in 2011	119
2011 Season occupancy rate	26.2%

Month	Weekend nights				Weekday nights				
	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	
May	3	15	1	6.7%	2	10	0	0.0%	
June	8	40	15	37.5%	22	110	3	2.7%	
July	11	55	39	70.9%	20	100	12	12.0%	
August	6	30	24	80.0%	19	95	25	26.3%	
Sept	0	0	0	#DIV/0!	0	0	0	#DIV/0!	
Oct	0	0	0	#DIV/0!	0	0	0	#DIV/0!	
Total	28	140	79	56.4%	63	315	40	12.7%	
Weekend occupancy rate				56.4%	Weekday occupancy rate				12.7%

Occupancy by month			
# of nights in month	# site nights	# of sites occupied	percent occupied
5	25	1	4.0%
30	150	18	12.0%
31	155	51	32.9%
25	125	49	39.2%
0	0	0	#DIV/0!
0	0	0	#DIV/0!
91	455	119	26.2%
Season occupancy rate			26.2%

## 2011 Barton Cove Campground Occupancy

Campground open Friday night May 27, 2012 through Sunday night September 4, 2011 with 29 single sites and 2 group sites.

Number of nights open for camping	176
Number of site nights for the season:	
Single sites	2900
Group sites	352
Total site nights for all sites	3252
Number of site nights occupied in 2011:	
Single sites	770
Group sites	95
Total number of site nights occupied in 2011	865
2011 Season occupancy rate	26.6%

Individual Sites												
Weekend nights					Weekday nights				Occupancy by month			
Month	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights available	# of sites occupied	percent occupied
May	3	87	63	72.4%	2	58	10	17.2%	5	145	73	50.3%
June	8	232	67	28.9%	22	638	59	9.2%	30	870	126	14.5%
July	10	290	204	70.3%	21	609	112	18.4%	31	899	316	35.2%
August	7	203	121	59.6%	23	667	82	12.3%	30	870	203	23.3%
Sept	3	87	49	56.3%	1	29	3	10.3%	4	116	52	44.8%
Total	31	899	504	56.1%	69	2001	266	13.3%	100	2900	770	26.6%
Weekend occupancy rate				56.1%	Weekday occupancy rate				13.3%	Total for individual sites		26.6%

Group Sites														
Weekend nights					Weekday nights				Occupancy by month					
Month	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied		
May	3	6	6	100.0%	2	4	0	0.0%	5	10	6	60.0%		
June	8	16	10	62.5%	22	44	7	15.9%	30	60	17	28.3%		
July	10	20	15	75.0%	21	42	17	40.5%	31	62	32	51.6%		
August	7	14	12	85.7%	23	46	13	28.3%	30	60	25	41.7%		
Sept	9	18	9	50.0%	21	42	2	4.8%	30	60	11	18.3%		
Oct	9	18	4	22.2%	22	44	0	0.0%	31	62	4	6.5%		
Nov	6	12	0	0.0%	13	26	0	0.0%	19	38	0	0.0%		
Total	52	104	56	53.8%	124	248	39	15.7%	176	352	95	27.0%		
Weekend occupancy rate				53.8%	Weekday occupancy rate				15.7%	Total for group sites				27.0%

Occupancy for all site types by month				
Month	# of nights in month	# site nights available	# of sites occupied	percent occupied
May	5	155	79	51.0%
June	30	930	143	15.4%
July	31	961	348	36.2%
August	30	930	228	24.5%
Sept	30	176	63	35.8%
Oct	31	62	4	6.5%
Nov	19	38	0	0.0%
Season	176	3252	865	26.6%

## 2010 Munn's Ferry Boat Access Campground Occupancy

Campground open Friday night May 27, 2011 through Thursday night October 10, 2010 with 5 sites.

Number of nights open for camping 136  
 Number of site nights for the season 680  
 Number of site nights occupied in 2010 151  
 2010 Season occupancy rate 22.2%

Month	Weekend nights				Weekday nights				
	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	
May	3	15	0	0.0%	1	5	3	60.0%	
June	8	40	10	25.0%	22	110	13	11.8%	
July	11	55	30	54.5%	20	100	24	24.0%	
August	8	40	32	80.0%	23	115	18	15.7%	
Sept	9	45	12	26.7%	21	105	7	6.7%	
Oct	5	25	1	4.0%	5	25	1	4.0%	
Total	44	220	85	38.6%	92	460	66	14.3%	
Weekend occupancy rate				38.6%	Weekday occupancy rate				14.3%

Occupancy by month			
# of nights in month	# site nights	# of sites occupied	percent occupied
4	20	3	15.0%
30	150	23	15.3%
31	155	54	34.8%
31	155	50	32.3%
30	150	19	12.7%
10	50	2	4.0%
136	680	151	22.2%
Season occupancy rate			22.2%

## 2010 Barton Cove Campground Occupancy

Campground open Friday night May 28, 2011 through Sunday night September 5, 2010 with 29 single sites and 2 group sites.

Number of nights open for camping	177
Number of site nights for the season:	
Single sites	2929
Group sites	354
Total site nights for all sites	3283
Number of site nights occupied in 2010:	
Single sites	983
Group sites	80
Total number of site nights occupied in 2010	1063
2010 Season occupancy rate	32.4%

Individual Sites													
Weekend nights					Weekday nights				Occupancy by month				
Month	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights available	# of sites occupied	percent occupied	
May	3	87	70	80.5%	1	29	6	20.7%	4	116	76	65.5%	
June	8	232	100	43.1%	22	638	44	6.9%	30	870	144	16.6%	
July	11	319	248	77.7%	20	580	118	20.3%	31	899	366	40.7%	
August	8	232	185	79.7%	23	667	135	20.2%	31	899	320	35.6%	
Sept	3	87	71	81.6%	2	58	6	10.3%	5	145	77	53.1%	
Total	33	957	674	70.4%	68	1972	309	15.7%	101	2929	983	33.6%	
Weekend occupancy rate				70.4%	Weekday occupancy rate				15.7%		Total for individual sites		33.6%

Group Sites												
Weekend nights					Weekday nights				Occupancy by month			
Month	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied	# of nights in month	# site nights	# of sites occupied	percent occupied
May	3	6	3	50.0%	1	2	1	50.0%	4	8	4	50.0%
June	8	16	10	62.5%	22	44	3	6.8%	30	60	13	21.7%
July	11	22	13	59.1%	20	40	10	25.0%	31	62	23	37.1%
August	8	16	9	56.3%	23	46	14	30.4%	31	62	23	37.1%
Sept	9	18	7	38.9%	21	42	5	11.9%	30	60	12	20.0%
Oct	11	22	4	18.2%	20	40	1	2.5%	31	62	5	8.1%
Nov	6	12	0	0.0%	14	28	0	0.0%	20	40	0	0.0%
Total	56	112	46	41.1%	121	242	34	14.0%	177	354	80	22.6%
Weekend occupancy rate				41.1%	Weekday occupancy rate				Total for group sites			
									22.6%			

Occupancy for all site types by month				
	# of nights in month	# site nights available	# of sites occupied	percent occupied
May	4	124	80	64.5%
June	30	930	157	16.9%
July	31	961	389	40.5%
August	31	961	343	35.7%
Sept	30	205	89	43.4%
Oct	31	62	5	8.1%
Nov	20	40	0	0.0%
Season	177	3283	1063	32.4%

## **Appendix A-5: Permit Program**





## **PERMIT PROGRAM**

### **TURNERS FALLS PROJECT FERC Project No. 1889**

**and**

### **NORTHFIELD PROJECT FERC Project No. 2485**

Approved By: \_\_\_\_\_

John S. Howard, Station Manager

Approval Date \_\_\_\_\_

5/1/08

## 1. INTRODUCTION

The overall administration of FirstLight Power Resources (FLPR) interests in Northfield and Turners Falls Project land, including hydro project land owned in fee by FLPR or in which FLPR has an interest, is the responsibility of the Northfield Mountain Station Manager. The use of the hydro project land will be consistent with hydro generation operating procedures and is subject to the general policies and guidelines established by FLPR.

## 2. GENERAL INFORMATION

FLPR hydro projects may be either licensed by the Federal Energy Regulatory Commission (FERC) or non-licensed. For both types of projects, it is the FLPR policy to protect the scenic, recreational, and other environmental values of the project consistent with safe, efficient operation. This policy describes the criteria by which proposed uses of the hydro land will be evaluated.

Land within the defined project boundary area of the Northfield and Turners Falls FERC licensed hydro projects is also subject to the requirements set forth in Exhibit 1. This Exhibit, which represents the Standard Land Use Article of the Northfield and Turners Falls Project licenses, is concerned with the use and occupancy of hydro project lands by parties other than FLPR.

Under this FERC standard article, certain categories of uses are permitted, with varying levels of FERC notification and control requirements. For the purpose of this policy, the categories are defined as follows:

**Category A:** Miscellaneous uses not addressed in subsequent categories which may require FERC approval to permit the use and/or convey an interest.

**Category B:** Uses such as (1) landscape planting; (2) non-commercial piers, landings, boat docks or similar facilities; and (3) embankments, bulkheads, retaining walls, or similar structures for erosion control to protect the existing shoreline.

**Category C:** Municipal and utility uses such as (1) replacement, expansion, realignment, or maintenance of bridges and roads for which all necessary State and Federal approvals have been obtained; (2) storm drains and water mains; (3) sewers that do not discharge into project waters; (4) minor access roads; (5) telephone, gas and electric distribution lines; (6) non-project overhead electric transmission lines that do not require erection of support structures within the project boundary; (7) submarine, overhead, or underground major telephone distribution cables or major electric distribution lines (69-kV or less); and (8) water intake or pumping facilities that do not extract more than one million gallons per day from a project reservoir.

**Category D:** Uses such as (1) construction of new bridges or roads for which all necessary State and Federal approvals have been obtained; (2) sewer or effluent lines that discharge into project waters, for which all necessary Federal and State water quality certificates or permits have been obtained; (3) other pipelines that cross project lands or waters but do not discharge into project waters; (4) non-project overhead electric transmission lines that require erection or support structures within the project boundary, for which all necessary Federal and State approvals have been obtained; (5) private or public marinas that can accommodate

no more than 10 watercraft at a time and are located at least one-half mile from any other private or public marina; (6) recreational development consistent with an approved Exhibit R or approved report on recreational resources of an Exhibit E; and (7) other uses, if: (i) the amount of land conveyed or a particular use is five acres or less; (ii) all of the land conveyed is located at least 75 feet, measured horizontally, from the edge of the project reservoir at normal maximum surface elevation; and (iii) no more than 50 total acres of project lands for each project development acres conveyed under this category in any calendar year.

FLPR should also, to the extent practical, be sure that proposed conveyances of FLPR land abutting hydro projects will not adversely affect the operation of that project.

### **3. INSTRUCTIONS**

- 3.1** The responsibility for granting approval for any proposed use or conveyance of hydro lands shall rest with FLPR. No commitments shall be made or implied without such approval.
- 3.2** Requests for short term license agreements may be approved by the Station Manager.
- 3.3** Requests for long term leases or conveyance of hydro land use shall be referred by the Station Manager to FLPR Senior Management. All proposals for leases or conveyance of hydro project lands shall be made to FLPR Senior Management in writing, with the accompanying background/support information and, also, any appropriate recommendations and comments from station management.
- 3.4** FLPR Senior Management shall then review the proposed use with input, as appropriate, with other FLPR departments including the General Counsel.
- 3.5** In conducting the review of proposed uses for FERC-licensed projects, FLPR shall also use the criteria summarized in Exhibit 2.
  - 3.5.1** FLPR shall have the authority to grant permission for certain types of use and/or occupancy of project lands and waters and to convey certain interests in project lands and waters for certain types of use and occupancy, without prior FERC approval. FLPR shall exercise the authority only if the proposed use and/or occupancy are consistent with the purposes of protecting and/or enhancing the scenic, recreational, and other environmental values of the project.
  - 3.5.2** FLPR shall have continuing responsibility to control the use and occupancies for which it grants the covenants of the instrument of conveyance for any interest that it has conveyed. If a permitted use and occupancy violates any condition of the Standard Land Use Article or any other condition imposed by FLPR for protection and/or enhancement of the project's scenic, recreational, or other environmental values, or if a covenant of a conveyance made under the authority of the article is violated, FLPR shall take any lawful action necessary to correct the violation. For a permitted use or occupancy, that action includes, if necessary, cancelling the permission to use and occupy the project lands and waters and requiring the removal of any non-complying structures and facilities.

- 3.5.3** For Category “A” uses, station management shall consult with the appropriate FLPR departments and determine the proper method of processing the proposed use/conveyance request.
- 3.5.4** For Category “B” uses, FLPR may, among other things, establish a program for issuing permits for the specified types of use and occupancy of project lands and waters, which may be subject to the payment of a reasonable fee to cover FLPR’s costs of administering the permit program.

FLPR shall place emphasis on multiple use and occupancy of facilities for access to project lands or waters. FLPR shall also assure to the extent practical that the uses and occupancies for which it grants permission are maintained in good repair and comply with the applicable State and local environmental, health and safety requirements. Before granting permission for construction of bulkheads or retaining walls, FLPR shall: (1) inspect the site of the proposed construction, (2) consider whether the planting of vegetation, grading, or the use of riprap would be adequate to control erosion at the site, (3) determine that the proposed construction is needed and would not change the basic contour of the reservoir shoreline.

- 3.5.5** For Category “C” uses, no later than January 15 of each year, FLPR shall prepare a report for each licensed project briefly describing, for each conveyance made during the prior calendar year, the type of interest conveyed, the location of the lands subject to the conveyance, and the nature of the use for which the interest was conveyed. Three copies of this report shall be filed with FERC no later than January 31 of each year.
- 3.5.6** For Category “D” uses at least 60 days before conveying any interest in project lands, station management shall notify FLPR Senior Management of its intent to convey the interest and briefly describe the type of interest and location of the lands to be conveyed (a marked Exhibit G or K may be used), the nature of the proposed use, the identity of any Federal or State agency official consulted, and any Federal or State approvals required for the proposed use. The Station Manager shall be responsible for filing the letter with FERC at least 45 days prior to the conveyance. Unless FERC, within 45 days from the filing date, requires FLPR to file an application for prior approval, FLPR may convey the intended interest at the end of that period.
- 3.5.7** For both Categories “C” and “D” uses, before notifying the FERC, the appropriate FLPR function shall consult with Federal and State Fish and Wildlife or Recreation Agencies, as appropriate, and the State Historic Preservation Officer.

Also, before notifying the FERC, station management, with the appropriate inputs, shall determine that the proposed use of the lands to be conveyed is not inconsistent with any approved Exhibit R or approved report on recreational resources of an Exhibit E; or, if the project does not have an approved Exhibit R or approved report on recreational resources, that lands to be conveyed do not have recreational value.

The instrument of conveyance must include covenants running with the land adequate to ensure that: the use of the lands conveyed shall not endanger the health, create a nuisance, or otherwise be incompatible with overall project recreational use; and the grantee shall take all reasonable precautions to ensure that the construction, operation, and maintenance of structures or facilities on the conveyed lands will occur in a manner that will protect the scenic, recreational, and environmental values of the project.

**3.5.8** If a proposed conveyance does not meet the criteria of the Standard Land Use Article, then additional steps shall be taken to affect the conveyance. These steps shall be determined based upon consultation with counsel and may include, for instance, a request for FERC prior approval.

**3.5.9** To facilitate meeting the requirements above, the Station Manager shall maintain an up-to-date list of all approved uses.

#### **4 EXHIBITS**

- Standard Land Use Articles (Exhibit 1):
  - License Article No. 49 – FERC Project No. 2485 Northfield, dated 10/6/80.
  - License Article No. 43 – FERC Project No. 1889 Turners Falls, dated 10/6/80.
- Summary of Standard Land Use Article Requirements (Exhibit 2)

# **EXHIBIT 1**



# NORTHEAST UTILITIES



THE CONNECTICUT LIGHT & POWER COMPANY  
THE HARTFORD ELECTRIC LIGHT & POWER COMPANY  
WESTERN MASSACHUSETTS ELECTRIC COMPANY  
HOLYOKE WATER POWER COMPANY  
NORTHEAST UTILITIES SERVICE COMPANY  
NORTHEAST NUCLEAR ENERGY COMPANY

P.O. BOX 270  
HARTFORD, CONNECTICUT 06101  
(203) 666-6911

October 6, 1980

FERC Project No. 2485  
Northfield

Mr. Kenneth F. Plumb, Secretary  
Federal Energy Regulatory Commission  
825 North Capitol Street, N.E.  
Washington, D.C. 20426

Dear Mr. Plumb:

Amendment of the License for Project No. 2485  
By Adding Article No. 49

We have received a letter from Mr. William W. Lindsay, Director of the Office of Electric Power Regulation, offering us an opportunity to amend the license for Project No. 2485, Northfield, by adding a new standard article.

The new article gives the Licensee authority to grant permission for certain uses of project lands and waters and to convey certain interests in project lands without prior Commission approval. By this letter, we accept that new article as an amendment to the project license. The new article should be designated Article No. 49. A copy of the new article, with that article number filled in, is attached to this letter.

Very truly yours,

WESTERN MASSACHUSETTS ELECTRIC COMPANY

W. G. Council  
Senior Vice President

Attachment: New License Article No. 49

VERIFICATION

State of Connecticut)  
                                  ) ss: Hartford  
County of Hartford )

October 6, 1980

William G. Counsil, being first duly sworn, deposes and says that he is Senior Vice President of the Western Massachusetts Electric Company, that he is authorized to verify and file the foregoing document, and that he has examined the foregoing document and knows the contents thereof; and that all statements therein are true to the best of his knowledge, information, and belief.

William G. Counsil

Subscribed and sworn to before me this 6<sup>th</sup> day of October  
1980.

Donald Delch

Notary Public

My Commission Expires March 31, 1983

(SEAL)



Article 49. (a) In accordance with the provisions of this article, the Licensee shall have the authority to grant permission for certain types of use and occupancy of project lands and waters and to convey certain interests in project lands and waters for certain other types of use and occupancy, without prior Commission approval. The Licensee may exercise the authority only if the proposed use and occupancy is consistent with the purposes of protecting and enhancing the scenic, recreational, and other environmental values of the project. For those purposes, the Licensee shall also have continuing responsibility to supervise and control the uses and occupancies for which it grants permission, and to monitor the use of, and ensure compliance with the covenants of the instrument of conveyance for, any interests that it has conveyed, under this article. If a permitted use and occupancy violates any condition of this article or any other condition imposed by the Licensee for protection and enhancement of the project's scenic, recreational, or other environmental values, or if a covenant of a conveyance made under the authority of this article is violated, the Licensee shall take any lawful action necessary to correct the violation. For a permitted use or occupancy, that action includes, if necessary, cancelling the permission to use and occupy the project lands and waters and requiring the removal of any non-complying structures and facilities.

(b) The types of use and occupancy of project lands and waters for which the Licensee may grant permission without prior Commission approval are: (1) landscape plantings; (2) non-commercial piers, landings, boat docks, or similar structures and facilities; and (3) embankments, bulkheads, retaining walls, or similar structures for erosion control to protect the existing shoreline. To the extent feasible and desirable to protect and enhance the project's scenic, recreational, and other environmental values, the Licensee shall require multiple use and occupancy of facilities for access to project lands or waters. The Licensee shall also ensure, to the satisfaction of the Commission's authorized representative, that the uses and occupancies for which it grants permission are maintained in good repair and comply with applicable State and local health and safety requirements. Before granting permission for construction of bulkheads or retaining walls, the Licensee shall: (1) inspect the site of the proposed construction, (2) consider whether the planting of vegetation or the use of riprap would be adequate to control erosion at the site, and (3) determine that the proposed construction is needed and would not change the basic contour of the reservoir shoreline. To implement this paragraph (b), the Licensee may, among other things, establish a program for issuing permits for the specified types of use and occupancy of project lands and waters, which may be subject to the payment of a reasonable fee to cover the Licensee's costs of administering the permit program. The Commission reserves the right to require the Licensee to file a description of its standards, guidelines, and procedures for

implementing this paragraph (b) and to require modifications of those standards, guidelines, or procedures.

(c) The Licensee may convey easements or rights-of-way across, or leases of, project lands for: (1) replacement, expansion, realignment, or maintenance of bridges and roads for which all necessary State and Federal approvals have been obtained; (2) storm drains and water mains; (3) sewers that do not discharge into project waters; (4) minor access roads; (5) telephone, gas, and electric utility distribution lines; (6) non-project overhead electric transmission lines that do not require erection of support structures within the project boundary; (7) submarine, overhead, or underground major telephone distribution cables or major electric distribution lines (69-kV or less); and (8) water intake or pumping facilities that do not extract more than one million gallons per day from a project reservoir. No later than January 31 of each year, the Licensee shall file three copies of a report briefly describing for each conveyance made under this paragraph (c) during the prior calendar year, the type of interest conveyed, the location of the lands subject to the conveyance, and the nature of the use for which the interest was conveyed.

(d) The Licensee may convey fee title to, easements or rights-of-way across, or leases of project lands for: (1) construction of new bridges or roads for which all necessary State and Federal approvals have been obtained; (2) sewer or effluent lines that discharge into project waters, for which all necessary Federal and State water quality certificates or permits have been obtained; (3) other pipelines that cross project lands or waters but do not discharge into project waters; (4) non-project overhead electric transmission lines that require erection of support structures within the project boundary, for which all necessary Federal and State approvals have been obtained; (5) private or public marinas that can accommodate no more than 10 watercraft at a time and are located at least one-half mile from any other private or public marina; (6) recreational development consistent with an approved Exhibit R or approved report on recreational resources of an Exhibit E; and (7) other uses, if: (i) the amount of land conveyed for a particular use is five acres or less; (ii) all of the land conveyed is located at least 75 feet, measured horizontally, from the edge of the project reservoir at normal maximum surface elevation; and (iii) no more than 50 total acres of project lands for each project development are conveyed under this clause (d)(7) in any calendar year. At least 45 days before conveying any interest in project lands under this paragraph (d), the Licensee must file a letter to the Director, Office of Electric Power Regulation, stating its intent to convey the interest and briefly describing the type of interest and location of the lands to be conveyed (a marked Exhibit G or K map may be used), the nature of the proposed use, the identity of any Federal or

State agency official consulted, and any Federal or State approvals required for the proposed use. Unless the Director, within 45 days from the filing date, requires the Licensee to file an application for prior approval, the Licensee may convey the intended interest at the end of that period.

(e) The following additional conditions apply to any intended conveyance under paragraphs (c) or (d) of this article:

(1) Before conveying the interest, the Licensee shall consult with Federal and State fish and wildlife or recreation agencies, as appropriate, and the State Historic Preservation Officer.

(2) Before conveying the interest, the Licensee shall determine that the proposed use of the lands to be conveyed is not inconsistent with any approved Exhibit R or approved report on recreational resources of an Exhibit E; or, if the project does not have an approved Exhibit R or approved report on recreational resources, that the lands to be conveyed do not have recreational value.

(3) The instrument of conveyance must include covenants running with the land adequate to ensure that: (i) the use of the lands conveyed shall not endanger health, create a nuisance, or otherwise be incompatible with overall project recreational use; and (ii) the grantee shall take all reasonable precautions to ensure that the construction, operation, and maintenance of structures or facilities on the conveyed lands will occur in a manner that will protect the scenic, recreational, and environmental values of the project.

(4) The Commission reserves the right to require the Licensee to take reasonable remedial action to correct any violation of the terms and conditions of this article, for the protection and enhancement of the project's scenic, recreational, and other environmental values.

(f) The conveyance of an interest in project lands under this article does not in itself change the project boundaries. The project boundaries may be changed to exclude land conveyed under this article only upon approval of revised Exhibit G or K drawings (project boundary maps) reflecting exclusion of that land. Lands conveyed under this article will be excluded from the project only upon a determination that the lands are not necessary for project purposes, such as operation and maintenance, flowage, recreation, public access, protection of environmental resources, and shoreline control, including shoreline aesthetic values. Absent extraordinary circumstances, proposals to exclude lands conveyed under this article from the project shall be consolidated for consideration when revised Exhibit G or K drawings would be filed for approval for other purposes.



# NORTHEAST UTILITIES



THE CONNECTICUT AND NEW ENGLAND  
EDISON COMPANY  
NORTHEAST UTILITIES SERVICE COMPANY  
A DIVISION OF THE EDISON COMPANY  
A MEMBER OF THE EDISON COMPANY GROUP

P.O. BOX 270  
HARTFORD, CONNECTICUT 06101  
(203) 666-0911

December 26, 1980

FERC Project No. 2485  
Northfield Project

bcc: R. E. Barrett  
A. C. Brodeur  
R. G. Chevallier  
W. B. Ellis  
W. F. Fee  
J. G. McKearin  
L. W. Noyes  
R. A. Reckert  
L. H. Shay  
R. N. Smart  
D. C. Switzer  
R. P. Wax  
M. L. Zilber, PBR&  
GFL ~~File~~ File  
R. Osella

Mr. Kenneth F. Plumb, Secretary  
Federal Energy Regulatory Commission  
825 North Capitol Street, N.E.  
Washington, D. C. 20426

- References: 1. Letter, W. W. Lindsay to All Licensees, dated June 18, 1980  
2. Letter, W. G. Council to K. F. Plumb, dated October 6, 1980  
3. Letter, J. D. Hebson to R. A. Reckert, dated December 1, 1980

Dear Mr. Plumb:

CORRECTION OF AMENDMENT OF THE LICENSE FOR PROJECT NO. 2485  
BY ADDING ARTICLE NO. 52 AND BY DELETING ARTICLE NO. 21

In Reference 1, we were afforded an opportunity to amend the license for Project No. 2485, Northfield, by adding a new standard article. The new article gives the Licensee authority to grant permission for certain uses of project lands and waters and to convey certain interests in project lands without prior Commission approval.

In Reference 2, we have accepted that new article as an amendment to the project license, but had designated it as Article No. 49. In Reference 3 (copy enclosed), we were advised that the new article should have been designated as Article No. 52. Therefore, we now submit the attached new article with the correct article number filled in.

In further reviewing the matter, the new article, in our judgment, substantially replaces the authority currently contained in Article No. 21 (Form L-4, revised June 1, 1964) of the license for Project No. 2485. Accordingly, we request that the license be amended to delete Article No. 21.

Very truly yours,

NORTHEAST UTILITIES SERVICE COMPANY  
As Agent for Western Massachusetts  
Electric Company

W. G. Council  
Senior Vice President

Attachment: Corrected New License  
Article No. 52

Mr. Kenneth F. Plumb  
Page 2  
December 26, 1980

cc: Mr. W. W. Lindsay, Director  
Office of Electric Power Regulation  
Federal Energy Regulatory Commission  
825 North Capitol Street, N.E.  
Washington, D. C. 20426

Mr. J. D. Hebson, Regional Engineer  
Federal Energy Regulatory Commission  
26 Federal Plaza  
New York, New York 10278

Mr. Fred E. Springer, Chief  
Applications Branch  
Division of Hydropower Licensing  
Federal Energy Regulatory Commission  
400 First Street, N.W.  
Washington, D. C. 20426

**NORTHEAST UTILITIES**



THE CONNECTICUT LIGHT AND POWER COMPANY  
THE HARTFORD ELECTRIC LIGHT COMPANY  
WESTERN MASSACHUSETTS ELECTRIC COMPANY  
NEW YORK WATER POWER COMPANY  
NORTHEAST UTILITIES SERVICE COMPANY  
NORTHEAST UTILITIES ENERGY COMPANY

P.O. BOX 270  
HARTFORD, CONNECTICUT 06101  
(203) 666-6911

October 6, 1980

FERC Project No. 1889  
Turners Falls

Mr. Kenneth F. Plumb, Secretary  
Federal Energy Regulatory Commission  
825 North Capitol Street, N.E.  
Washington, D.C. 20426

Dear Mr. Plumb:

Amendment of the License for Project No. 1889  
By Adding Article No. 43  
And By Deleting Article No. 37

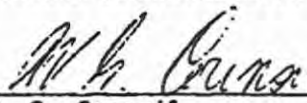
We have received a letter from Mr. William W. Lindsay, Director of the Office of Electric Power Regulation, offering us an opportunity to amend the license for Project No. 1889, Turners Falls, by adding a new standard article.

The new article gives the Licensee authority to grant permission for certain uses of project lands and waters and to convey certain interests in project lands, without prior Commission approval. By this letter, we accept that new article as an amendment to the project license. The new article should be designated Article No. 43. A copy of the new article with that article number filled in, is attached to this letter.

In our judgment, the new article substantially replaces the authority currently contained in Article No. 37 of the license for Project No. 1889. Accordingly, we request that the license be amended to delete Article No. 37.

Very truly yours,

WESTERN MASSACHUSETTS ELECTRIC COMPANY

  
\_\_\_\_\_  
W. G. Council  
Senior Vice President

Attachment: New License Article No. 43

## VERIFICATION

**State of Connecticut)**

) ss: Hartford

October 6, 1980

County of Hartford )

William G. Counsil, being first duly sworn, deposes and says that he is Senior Vice President of the Western Massachusetts Electric Company, that he is authorized to verify and file the foregoing document, and that he has examined the foregoing document and knows the contents thereof; and that all statements therein are true to the best of his knowledge, information, and belief.

William L. Gural

Subscribed and sworn to before me this 6th day of October

1980.

Thomas H. Bell  
Notary Public

Notary Public

My Commission Expires March 31, 1983

(SEAL)

**Article 43.** (a) In accordance with the provisions of this article, the Licensee shall have the authority to grant permission for certain types of use and occupancy of project lands and waters and to convey certain interests in project lands and waters for certain other types of use and occupancy, without prior Commission approval. The Licensee may exercise the authority only if the proposed use and occupancy is consistent with the purposes of protecting and enhancing the scenic, recreational, and other environmental values of the project. For those purposes, the Licensee shall also have continuing responsibility to supervise and control the uses and occupancies for which it grants permission, and to monitor the use of, and ensure compliance with the covenants of the instrument of conveyance for, any interests that it has conveyed, under this article. If a permitted use and occupancy violates any condition of this article or any other condition imposed by the Licensee for protection and enhancement of the project's scenic, recreational, or other environmental values, or if a covenant of a conveyance made under the authority of this article is violated, the Licensee shall take any lawful action necessary to correct the violation. For a permitted use or occupancy, that action includes, if necessary, cancelling the permission to use and occupy the project lands and waters and requiring the removal of any non-complying structures and facilities.

(b) The types of use and occupancy of project lands and waters for which the Licensee may grant permission without prior Commission approval are: (1) landscape plantings; (2) non-commercial piers, landings, boat docks, or similar structures and facilities; and (3) embankments, bulkheads, retaining walls, or similar structures for erosion control to protect the existing shoreline. To the extent feasible and desirable to protect and enhance the project's scenic, recreational, and other environmental values, the Licensee shall require multiple use and occupancy of facilities for access to project lands or waters. The Licensee shall also ensure, to the satisfaction of the Commission's authorized representative, that the uses and occupancies for which it grants permission are maintained in good repair and comply with applicable State and local health and safety requirements. Before granting permission for construction of bulkheads or retaining walls, the Licensee shall: (1) inspect the site of the proposed construction, (2) consider whether the planting of vegetation or the use of riprap would be adequate to control erosion at the site, and (3) determine that the proposed construction is needed and would not change the basic contour of the reservoir shoreline. To implement this paragraph (b), the Licensee may, among other things, establish a program for issuing permits for the specified types of use and occupancy of project lands and waters, which may be subject to the payment of a reasonable fee to cover the Licensee's costs of administering the permit program. The Commission reserves the right to require the Licensee to file a description of its standards, guidelines, and procedures for



implementing this paragraph (b) and to require modifications of those standards, guidelines, or procedures.

(c) The Licensee may convey easements or rights-of-way across, or leases of, project lands for: (1) replacement, expansion, realignment, or maintenance of bridges and roads for which all necessary State and Federal approvals have been obtained; (2) storm drains and water mains; (3) sewers that do not discharge into project waters; (4) minor access roads; (5) telephone, gas, and electric utility distribution lines; (6) non-project overhead electric transmission lines that do not require erection of support structures within the project boundary; (7) submarine, overhead, or underground major telephone distribution cables or major electric distribution lines (69-kV or less); and (8) water intake or pumping facilities that do not extract more than one million gallons per day from a project reservoir. No later than January 31 of each year, the Licensee shall file three copies of a report briefly describing for each conveyance made under this paragraph (c) during the prior calendar year, the type of interest conveyed, the location of the lands subject to the conveyance, and the nature of the use for which the interest was conveyed.

(d) The Licensee may convey fee title to, easements or rights-of-way across, or leases of project lands for: (1) construction of new bridges or roads for which all necessary State and Federal approvals have been obtained; (2) sewer or effluent lines that discharge into project waters, for which all necessary Federal and State water quality certificates or permits have been obtained; (3) other pipelines that cross project lands or waters but do not discharge into project waters; (4) non-project overhead electric transmission lines that require erection of support structures within the project boundary, for which all necessary Federal and State approvals have been obtained; (5) private or public marinas that can accommodate no more than 10 watercraft at a time and are located at least one-half mile from any other private or public marina; (6) recreational development consistent with an approved Exhibit R or approved report on recreational resources of an Exhibit E; and (7) other uses, if: (i) the amount of land conveyed for a particular use is five acres or less; (ii) all of the land conveyed is located at least 75 feet, measured horizontally, from the edge of the project reservoir at normal maximum surface elevation; and (iii) no more than 50 total acres of project lands for each project development are conveyed under this clause (d)(7) in any calendar year. At least 45 days before conveying any interest in project lands under this paragraph (d), the Licensee must file a letter to the Director, Office of Electric Power Regulation, stating its intent to convey the interest and briefly describing the type of interest and location of the lands to be conveyed (a marked Exhibit G or K map may be used), the nature of the proposed use, the identity of any Federal or

State agency official consulted, and any Federal or State approvals required for the proposed use. Unless the Director, within 45 days from the filing date, requires the Licensee to file an application for prior approval, the Licensee may convey the intended interest at the end of that period.

(e) The following additional conditions apply to any intended conveyance under paragraphs (c) or (d) of this article:

(1) Before conveying the interest, the Licensee shall consult with Federal and State fish and wildlife or recreation agencies, as appropriate, and the State Historic Preservation Officer.

(2) Before conveying the interest, the Licensee shall determine that the proposed use of the lands to be conveyed is not inconsistent with any approved Exhibit R or approved report on recreational resources of an Exhibit E; or, if the project does not have an approved Exhibit R or approved report on recreational resources, that the lands to be conveyed do not have recreational value.

(3) The instrument of conveyance must include covenants running with the land adequate to ensure that: (i) the use of the lands conveyed shall not endanger health, create a nuisance, or otherwise be incompatible with overall project recreational use; and (ii) the grantee shall take all reasonable precautions to ensure that the construction, operation, and maintenance of structures or facilities on the conveyed lands will occur in a manner that will protect the scenic, recreational, and environmental values of the project.

(4) The Commission reserves the right to require the Licensee to take reasonable remedial action to correct any violation of the terms and conditions of this article, for the protection and enhancement of the project's scenic, recreational, and other environmental values.

(f) The conveyance of an interest in project lands under this article does not in itself change the project boundaries. The project boundaries may be changed to exclude land conveyed under this article only upon approval of revised Exhibit G or K drawings (project boundary maps) reflecting exclusion of that land. Lands conveyed under this article will be excluded from the project only upon a determination that the lands are not necessary for project purposes, such as operation and maintenance, flowage, recreation, public access, protection of environmental resources, and shoreline control, including shoreline aesthetic values. Absent extraordinary circumstances, proposals to exclude lands conveyed under this article from the project shall be consolidated for consideration when revised Exhibit G or K drawings would be filed for approval for other purposes.

## **EXHIBIT 2**



**Hydro Electric Project Licenses**  
**Standard Land Use Article Requirements**

**EXHIBIT 2**

Article Paragraph	B	C	D
Interest Conveyed	Use & Occupancy Only	Easements Rights-of-Way Leases	Easements Rights-of-Way Leases Fee Title
Types of Uses	(1) Landscape plantings, Lawns, Gardens.	(1) Replace, expansion, realignment of roads and bridges.	(1) Construction of new roads and bridges
	(2) Non-commercial waterfront facilities, docks, piers, rafts.	(2) Non-project overhead electric transmission lines not requiring a support structure within Project Boundary.	(2) Non-project overhead electric transmission lines requiring a support structure within the Project Boundary.
	(3) Erosion Control structures.	(3) Sewers not discharging to Project Waters.	(3) Sewers discharging to Project Waters.
		(4) Storm drains and water mains.	(4) Other pipe lines crossing Project lines or waters that do not discharge to Project Waters.
		(5) Telephone, gas or electric distribution lines.	(5) Private or public marinas accommodating no more than 10 water craft and local at least 1/2 miles from other public private marina.
		(6) Minor access roads.	(6) Recreational developments consistent with an approved Exhibit R or K.
		(7) Submarine, overhead, underground major telephone transmission cables and major electric distribution (69 KV or less) lines.	(7) Other uses, provided: (a) 5 acres or less (b) 75 feet horizontally from normal maximum © No more than 50 acres conveyed in this manner at the Project each year.
		(8) Water intake or pumping facilities that extract less than 1 MGD of water from the Project Reservoir.	
Procedure Requirement	Establish permit policy and procedure: Fees Inspections Justification	Establish Conveyance Procedures *Standard Covenants *Compliance Inspections *Evaluation of Impact on Natural Values *Agency Consultations *Remedial Actions	Establish Conveyance Procedures *Standard Covenants *Compliance Inspections *Evaluation of Natural Values *Agency Consultations *Remedial Actions
FERC Submittal Requirement	None, file procedures and policy on request only.	File report (3 copies) on or before Jan. 31 each year containing: (a) Description of each conveyance made (b) Location on Exhibit K or G maps © Nature/Type of Use (d) Agency Consultation Conducted	Notify FERC, 45 days in advance of intent to convey interest in a specific parcel: (a) Describe type of interest (b) Location on Exhibit K or G Maps © Nature/Type of proposed use (d) Agency Consultations conducted (e) Federal or State approvals required for such use. If no FERC action convey interest.

## **Attachment B: Responses to Mr. Karl Meyer comments**

### **Karl Meyer March 28, 2015 Letter:**

#### **Study 3.3.6: Impact of Project Operations on Shad Spawning, Spawning Habitat, and Egg Deposition in the Area of the Northfield Mountain and Turners Falls Projects**

Please indicate, from information available from US Conte Lab temperature sensors in the canal, the water temperatures on all nights that spawning was observed both in the TF Power Canal and in the Bypass Reach including at the Rock Dam site.

##### FirstLight response:

Spawning was observed once in the canal on June 17, 2015 and the water temperature was 19.4°C. Spawning was observed once in the bypass reach on June 18, 2015 and the water temperature was 19.3°C. These water temperatures were collected as part of Study No. 3.2.1, Water Quality monitoring.

Please also indicate, throughout the spawning study period, which days and continuous hours Station 1 was operating during the surveys—as well as the dates or any times it did not operate, or times when its operation was temporarily interrupted.

Please also explain how aural detection of shad spawning in the pool directly below the Rock Dam was accomplished, given its backdrop of falling water.

##### FirstLight response:

Notes on the data sheet indicate that spawning was observed in the backwater area below the Rock Dam on June 18, 2015 from 2217-2233. During the observation there was an approximately 1,000 cfs bypass flow and 13,000 cfs from Cabot Station. Station No. 1 was not running. Observers noted on field sheets that they were able to walk to a point below Rock Dam pool where they observed the spawning. There was no need to rely on aural detection of spawning

#### **Study 3.3.11 Fish Assemblage**

In the Bypass Reach your findings note that “All mesohabitats sampled” in Late Summer, and that the “Rock Dam Pool” was sampled via electrofishing. A closer look at the data and information supplied indicates that a slow, shallow pool above the Rock Dam was electrofished, rather than the deep, oxygenated pool directly downstream of the Rock Dam formation with its variety of depths and niche habitats that all agency participants and stakeholders have long-identified as the Rock Dam Pool throughout this process.

Please indicate why this pool, as a unique mesohabitat, was excluded, and why the slow, shallow pool that has not been an area of interest for assessing assembled fish species, was used instead.

##### FirstLight response:

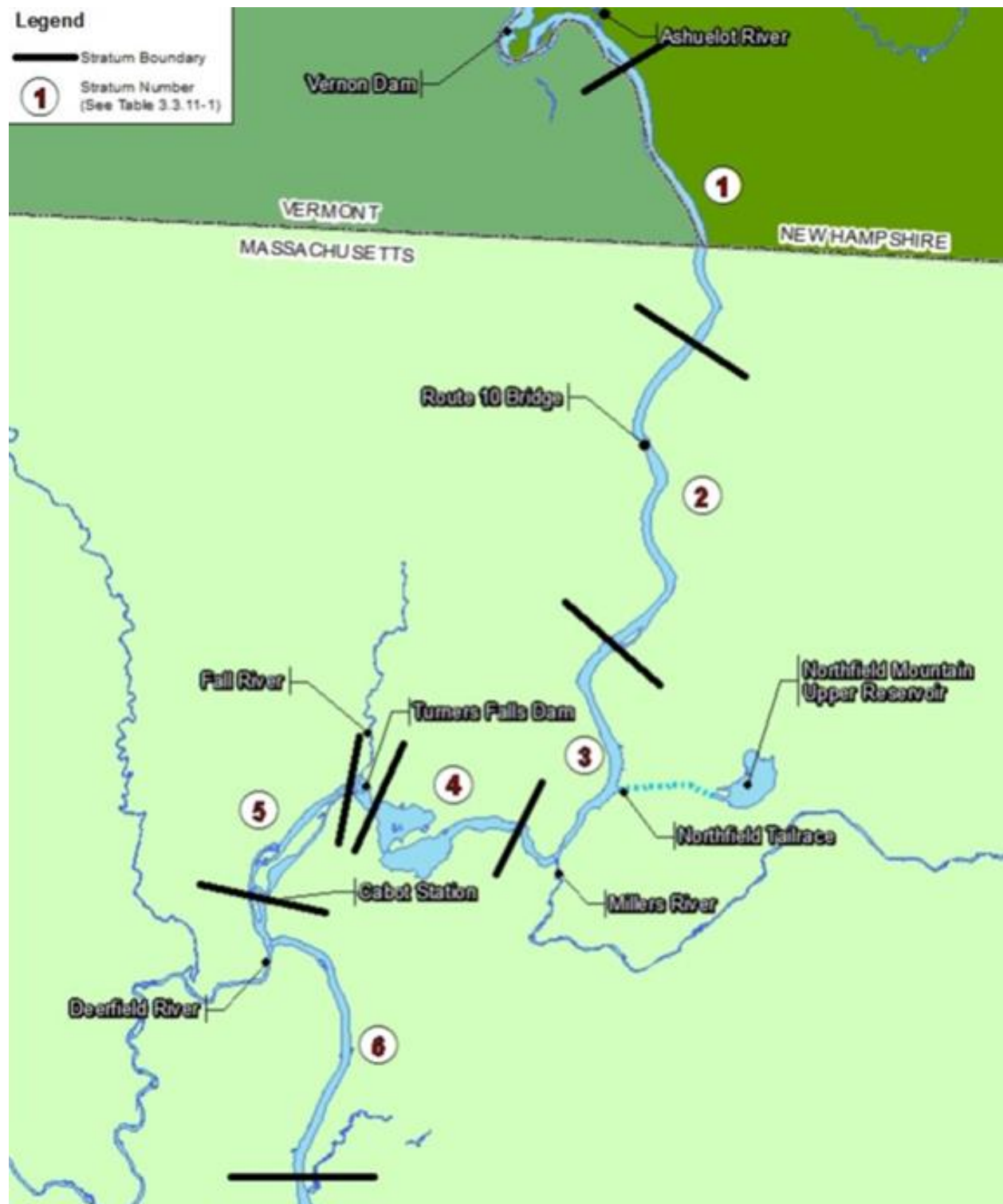
#### **From July 15, 2013 Letter from NMFS to FERC (comments on Proposed Study Plans)**

*As discussed at the May 30, 2013 study plan meeting and in a follow-up conference call with FERC staff on June 18, 2013, endangered shortnose sturgeon occur in the area where the electrofishing transects are proposed. Shortnose sturgeon may be affected if exposed to electric current generated during these activities. Due to the sensitivities of spawning adults and early life stages present in Transect 5 and the presence of juveniles and adults year round in Transect 6, we recommend that the study be modified to eliminate the potential for effects or that FERC initiate formal consultation pursuant to section 7 of the Endangered Species Act (ESA) with NMFS to assess effects of this study.*

As depicted in [Appendix B-1](#), Transect 5 ends at the Rock Dam and Transect 6 is below. Based on the map below and information on where shortnose sturgeon had been located in past surveys, electrofishing ceased at the Rock Dam to ensure there was no incidental take of ESA shortnose sturgeon. Data from the 2009

Midwest Biodiversity Institute (MBI) fish survey in that area are available as shown in [Appendix B-1](#). The area was sampled in August and October 2009. Between the fish assemblage data collected during FirstLight's survey and the data collected in 2009 by MBI, there are sufficient data to determine the assemblage between Rock Dam and Cabot Station.

## Appendix B-1: Survey Transect Map





### Midwest Biodiversity Institute Fish Species List

River: 80-001 Connecticut River RM: 66.10 Date: 08/15/2009  
 Time Fished: 4856 Distance: 1.000 Drainge (sq mi): 7191.0 Depth: 0  
 Location: Ust. Cabot Station flow altered reach Lat: 42.59536 Long: -72.57901

Species Code:	Species Name:	Feed Guild	Tolerance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	1	1.0	0.39	5	0.07	5.0
37-003	NORTHERN PIKE	P		MG	L	M	1	1.0	0.39	1300	18.26	1300.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	9	9.0	3.50	10	0.14	1.1
43-012	LONGNOSE DACE	BI	R	FS	NGL	M	1	1.0	0.39	5	0.07	5.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	133	133.0	51.75	105	1.47	0.7
43-100	FALLFISH	G		FS	LN	E	14	14.0	5.45	65	0.91	4.6
50-001	AMERICAN EEL	C		C		M	5	5.0	1.95	1150	16.15	230.0
77-003	ROCK BASS	C		MG	LN	E	8	8.0	3.11	500	7.02	62.5
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	70	70.0	27.24	3355	47.13	47.9
77-009	BLUEGILL SUNFISH	I	P	MG	VN	E	3	3.0	1.17	600	8.43	200.0
77-013	PUMPKINSEED SUNFISH	I	P	MG	VN	E	1	1.0	0.39	10	0.14	10.0
80-003	YELLOW PERCH	C		MG	V	M	3	3.0	1.17	4	0.06	1.3
80-035	TESSELATED DARTER	BI		FD		M	8	8.0	3.11	10	0.14	1.2

No Species: 13 Nat. Species: 6 Hybrids: 0 Total Counted: 257 Total Rel. Wt. : 7119  
 IBI: 22.4

### Midwest Biodiversity Institute Fish Species List

River: 80-001 Connecticut River RM: 66.10 Date: 10/05/2009  
 Time Fished: 6578 Distance: 4.000 Drainge (sq mi): 7191.0 Depth: 280  
 Location: Ust. Cabot Station flow altered reach Lat: 42.59536 Long: -72.57901

Species Code:	Species Name:	Feed Guild	Tolerance	Fluv. Group	Breed Guild	Thermal Group	No. Fish	Rel. No.	% by No.	Rel. Wt.	% by Wt.	Av. Wt.
01-005	SEA LAMPREY	D		A	LN	M	2	0.5	3.85	0	***	0.0
37-002	CHAIN PICKEREL	P		MG	L	M	1	0.3	1.92	0	***	0.0
37-003	NORTHERN PIKE	P		MG	L	M	1	0.3	1.92	0	***	0.0
40-016	WHITE SUCKER	I	T	FD	NGL	M	3	0.8	5.77	0	***	0.0
43-028	SPOTTAIL SHINER	I	P	MG	L	E	8	2.0	15.38	0	***	0.0
43-100	FALLFISH	G		FS	LN	E	10	2.5	19.23	0	***	0.0
50-001	AMERICAN EEL	C		C		M	2	0.5	3.85	0	***	0.0
77-004	SMALLMOUTH BASS	C	M	MG	LN	E	19	4.8	36.54	0	***	0.0
80-003	YELLOW PERCH	C		MG	V	M	2	0.5	3.85	0	***	0.0
80-035	TESSELATED DARTER	BI		FD		M	4	1.0	7.69	0	***	0.0

No Species: 10 Nat. Species: 4 Hybrids: 0 Total Counted: 52 Total Rel. Wt. : 0  
 IBI: 28.9