

Van Dyke, Nancy

From: Loomis, Ross [rloomis@rti.org]
Sent: Wednesday, April 22, 2009 10:26 AM
To: Mansfield, Carol A.; Van Dyke, Nancy
Cc: Fox, Lori
Subject: RE: ORV passengers
Attachments: CAHACI1993.pdf

I'm available.

The park's recreational visitor count is an estimate of unique visitors based on their count of people entering the park (by plane, boat, ferry, and over 90% of the count from the Whalebone Junction traffic counter), and the park also reports the number of recreational hours based on the counts of campers, etc. Attached is their full counting methodology.

If we apply the ORV estimate to the recreational visitors, it will be a conservative estimate, which is what we were going for with the 395,000 annual estimate.

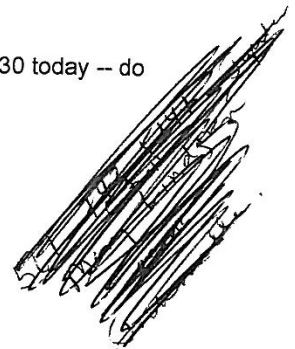
Monthly Public Use Report

Cape Hatteras NS			12/2008	5190
December 2008				
	Recreational	Non-Recreational	Total	Calendar Year-To-Date
Visits	68,441	2,706	71,147	2,255,116
Visitor Hours	277,278	8,599	285,877	10,207,301
				Fiscal YTD
Total Fiscal YTD Visitor Days				113,862

From: Mansfield, Carol A.
Sent: Wednesday, April 22, 2009 9:50 AM
To: 'Van Dyke, Nancy'
Cc: Loomis, Ross; Fox, Lori
Subject: RE: ORV passengers

Sure, but let's have Ross on the phone so I don't get it wrong either! I am free any time until 12:30 today -- do you have time this morning?

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CAPE HATTERAS NATIONAL SEASHORE

PUBLIC USE COUNTING AND REPORTING INSTRUCTIONS

Following are detailed instructions for collecting and reporting data to be entered on Form 10-157, Revised, Monthly Public Use Report by Cape Hatteras National Seashore. These instructions are effective the date of issuance and will continue in effect unless changed by amendment or by memorandum from the Socio-Economic Studies Division to the superintendent approving a requested change.

Each item below describes the procedures to be followed in collecting public use data and summarizing the various elements of those data for entry on the corresponding line on the 10-157, Monthly Public Use Report.

Recreation Visits

1. An inductive loop traffic counter is located on Highway 12 at the junction of old U.S. 158 at the park entrance. The traffic count is reduced for nonrecreation traffic by multiplying the traffic count by the nonrecreation adjustment factor in Table 1. The reduced traffic count is multiplied by the recreation persons-per-vehicle (PPV) multiplier in Table 2.
2. The number of registered hunters.
3. The number of aircraft observed at Hatteras Island and Ocracoke Island is multiplied by the persons-per-plane multiplier of 2.5.
4. The number of vehicles arriving on Ocracoke Island by ferry is multiplied by the recreation PPV multiplier in Table 2.
5. The number of overnight boats is multiplied by the persons-per-boat (PPB) multiplier of four.

* If the traffic counter is operable, estimate the traffic count by using Table 4

Nonrecreation Visits

1. An inductive loop traffic counter is located on Highway 12 at the junction of old U.S. 158 at the entrance to the park. The traffic count is reduced for recreation traffic by multiplying the traffic count by the recreation adjustment factor in Table 1. The reduced traffic count is multiplied by the nonrecreation PPV multiplier in Table 2.
2. The number of observed nonrecreation overnight boats is multiplied by the PPB multiplier of four.

Recreation Visitor Hours

1. The total number of recreation visitors is multiplied by a length of stay multiplier of three hours (January through March), four hours (April, May, October, November, and December) or five hours and thirty minutes (June through September).
2. The total number of overnight stays is multiplied by fifteen hours.

Nonrecreation Visitor Hours

1. The number of nonrecreation visitors arriving by vehicle is multiplied three hours.
2. The number of nonrecreation overnight stays is multiplied by fifteen hours.

Overnight Stays

NPS Campgrounds - Oregon Inlet, Salvo, Cape Point, Frisco, and Ocracoke Campgrounds

The number of overnight stays by tent and RV campers is multiplied by the persons-per-site multiplier in Table 3.

NPS Miscellaneous - Boat overnights

The number of observed nonrecreation boats is multiplied by the PPB multiplier of four.

Nonrecreation Overnight Stays - Boat overnights

The number of observed nonrecreation boats is multiplied by the PPB multiplier of four.

Special Use Data

- Line a. The number of visitors to the visitor center
- Line b. The number of airplanes
- Line c. The number of airplane visitors
- Line d. The number of vehicles entering Brodie Island
- Line e. The number of vehicles arriving by ferry
- Line f. The number of groups camping
- Line g. The number of recreation boats
- Line h. The number of nonrecreation boats

Table 1**Recreation and Nonrecreation Vehicle Adjustments by Month**

MONTH	NONRECREATION VEHICLE ADJUSTMENT	RECREATION VEHICLE ADJUSTMENT
January	0.06	0.94
February	0.06	0.94
March	0.06	0.94
April	0.08	0.92
May	0.10	0.90
June	0.10	0.90
July	0.10	0.90
August	0.10	0.90
September	0.10	0.90
October	0.08	0.92
November	0.06	0.94
December	0.06	0.94

Table 2

Nonrecreation and Recreation Persons-Per-Vehicle Multipliers by Month

MONTH	NONRECREATION PERSONS-PER-VEHICLE	RECREATION PERSONS-PER-VEHICLE
January	1.1	1.7
February	1.1	1.7
March	1.1	2.2
April	1.1	2.2
May	1.5	2.2
June	1.5	2.7
July	1.5	2.7
August	1.5	2.7
September	1.5	2.7
October	1.1	2.2
November	1.1	2.2
December	1.1	1.7

Table 3

Persons-Per-Site Multipliers by Month

MONTH	TENTS	RECREATION VEHICLES
January	2.3	2.2
February	2.3	2.2
March	2.3	2.2
April	2.3	2.2
May	2.4	2.4
June	2.8	2.5
July	2.5	3.2

August	2.2	2.9
September	2.2	2.2
October	2.2	2.2
November	2.2	2.2
December	2.2	2.2

Table 4

Estimated Daily Traffic Count by Month

MONTH	ESTIMATED DAILY TRAFFIC
January	700
February	950
March	1,550
April	2,350
May	3,450
June	4,050
July	4,800
August	4,800
September	3,500
October	2,425
November	1,550
December	875

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Aerial Counts

7/4/2008	2579	May-08	2069
7/4/2007	1730	May-07	2938
7/4/2006	1100	May-06	1125
7/4/2005	2587	May-05	1690
7/4/2004	1047	May-03	1631
7/4/2003	3153		

Season	Memorial Day			July 4th			Memorial Day			July 4th		
	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN
18 Low	106.14	68.30	40.64	89.22	57.52	29.63	53.07	34.15	20.32	44.61	28.76	14.81
17 Mid	1544.98	994.20	591.60	1298.70	837.24	431.25	772.49	497.10	295.80	649.35	418.62	215.63
17 High	3508.97	2258.02	1343.63	2949.61	1901.55	979.46	1754.48	1129.01	671.82	1474.81	950.77	489.73

AVERAGE	2032.7	1890.6
Minimum	1047.0	1125.0
Maximum	3153.0	2938.0

Maximum Rentals	Weekend Cars		
	2323 MAX	AVG	MIN
% Memorial Day Rentals	73.8%	3979.3	2560.7
% July 4 Rentals	94.3%	3345.0	2156.4

TOTAL OR	Memorial Day			July 4th		
	MAX	AVG	MIN	MAX	AVG	MIN
	395,225	254,327	151,337	332,223	214,177	110,320

Week Start	Week End	Week #	Houses R	Holiday	% Rented	Memorial Day			July 4th			Memorial Day			July 4th			Total for the Week					
						MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN						
Saturday, January 06, 2007	Friday, January 12, 2007	1	Low	39	1.68%	66.79	42.98	25.58	56.15	36.20	18.64	33.40	21.49	12.79	28.07	18.10	9.32	300.57	193.42	115.09	252.66	162.88	83.90
Saturday, September 01, 2007	Friday, September 07, 2007	35	High	1542	66.40%	2642.21	1700.26	1011.74	2221.02	1431.84	737.52	1321.11	850.13	505.87	1110.51	715.92	368.76	11889.95	7651.17	4552.82	9994.61	6443.30	3318.86