

Herron, Amanda

CAHA# 2235

From: Fox, Lori
Sent: Wednesday, March 31, 2010 3:54 PM
To: Herron, Amanda
Subject: FW: qualitative summary of ramps
Attachments: ORV Ramp Questionnaire ORV vs Pedestrians.xls

From: Mansfield, Carol A. [mailto:carolm@rti.org]
Sent: Thursday, April 02, 2009 9:02 AM
To: Van Dyke, Nancy; Fox, Lori
Cc: Mansfield, Carol A.; Loomis, Ross
Subject: qualitative summary of ramps

Hi Nancy and Lori,
 Here is our qualitative summary of ramp use by ORV's and pedestrians. I also have a map where one of the kite board business people marked up which parts of the park kite boarders and surfers like to visit if that would be useful.

Thanks,
 Carol

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From: Van Dyke, Nancy [mailto:nvandyke@louisberger.com]
Sent: Tuesday, March 31, 2009 3:39 PM
To: Mansfield, Carol A.
Subject: RE: ORV count estimates

Thanks for your time – how about 10 AM tomorrow?

From: Mansfield, Carol A. [mailto:carolm@rti.org]
Sent: Tuesday, March 31, 2009 3:26 PM
To: Van Dyke, Nancy
Subject: FW: ORV count estimates

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From: Loomis, Ross
Sent: Thursday, March 12, 2009 12:09 PM
To: Andrea_Stacy@nps.gov
Cc: John_Notar@nps.gov; jwu@air-resource.com; Mansfield, Carol A.; Sandra_Hamilton@nps.gov
Subject: ORV count estimates

We've built a range of estimates to capture the upper bound ORV use, and would like to go over our methodology to make sure that it works for you. I'm not sure who else would be need to be involved in a call to discuss these estimates further, but I am available to have such a discussion.

Briefly:

The best data we have for visitor distribution by week is 2007/2008 housing rental data we collected. We assume that the distribution of ORV use follows the same trend as housing rentals, for instance the maximum number of ORV trips occurred the week of August 11 -17, and 1.68% of that number of trips occurred the week of January 6 – 12.

To determine how many ORV trips would constitute the maximum number, we used both the flyover data and the housing rental data. The number of ORVs counted in flyovers for both July 4th and Memorial Day were assumed to be the number of trips of a representative weekend day that week. We used the maximum, average and minimum values of both holidays to construct 6 different estimates. The rental data was then used to adjust the flyover data to the maximum weekend day. For example, since 2,938 ORVs were counted on the beach on Memorial Day 2007, and houses were only 73.8% occupied, we assume that the maximum weekend number of ORVs would be:

$$2,938 / .738 = 3,979 \text{ ORVs.}$$

Based on some of the ramp counter data, we assume that weekdays have, on average, half the traffic of weekend days, giving us an estimated maximum weekday ORV trip count of 1,990, for a maximum weekly total of 17,906.

Adjusting this weekly maximum by the rental data for each week, we arrive at an annual estimate of 395,225 ORV trips. The table below shows the other estimates using alternate flyover values.

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

While the flyover data represents a minimum of the number of ORV trips taken on those holidays, the 395,000 value is likely an overestimate. Rather than the flyover days being representative of a typical weekend day, they are likely well above average. Thus, taking the step to adjust them up to an even higher maximum value using rental data will make the

estimate even more conservative. We believe that using this method, we have created a range of values that captures the upper bound of ORV use.

Attached is the spreadsheet that calculates these estimates, with the results highlighted in gray.

Ross

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Ramp	Location	Adjacent Boardwalk?	Parking lot?	Easy to walk to beach on ramp if no boardwalk?	Lots of pedestrian use?	Lots of ORV use IF OPEN?
1	Bodie Is	NO	YES	YES	YES	NO
2	Bodie Is	NO	YES	YES	YES	YES
4	Bodie Is	NO	CARS PARK ALONG RAMP	NO	NO	YES
23	Hatteras Is	NO	YES	YES	YES	YES
27	Hatteras Is	YES (OPENED IN LATE AUGUST)	YES	YES	NO	NO
30	Hatteras Is	NO	YES	YES	NO	NO
34	Hatteras Is	YES	YES	YES	NO	NO
38	Hatteras Is	NO	YES	YES	YES	NO
43	Hatteras Is	NO	YES	YES	NO	YES
44	Hatteras Is	NO	NO	NO	NO	YES
49	Hatteras Is	BOARDWALK IN CAMPGROUND. NOT NEAR RAMP.	YES	NO	NO	YES
55	Hatteras Is	YES	YES	YES	NO	YES
59	Ocracoke	NO	NO, BUT CLOSE	YES	NO	YES
67	Ocracoke	NO	NO	NO	NO	NO
68	Ocracoke	YES (INBETWEEN CAMPGROUND AND RAMP)	YES (INBETWEEN CAMPGROUND AND RAMP)	NO	NO	YES
70	Ocracoke	NO, BOARDWALK IS 1/2 MILE AWAY	YES	YES	YES	YES
72	Ocracoke	NO	NO	NO	NO	YES