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Jeff Cobb
12/14/2004 07:00 PM
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To: Sandra Hamilton/DENVER/NPS@NPS
cc: Mary Doll/CAHA/NPS@NPS
Subject: ORV Ranger Counts

This is the spreadsheet I think I sent you before. The spreadsheet at least collects in one place all of the ranger counts of ORVs over the last couple of years. Though I think I long-ago read some vehicle counts from the mid-80's and will attempt to locate them, this spreadsheet is probably the only real data we have. I think it can also be used to extrapolate the minimum numbers of ORVs that have used the park in the last two years. Larry is insistent that we not use these figures, even for internal discussion, until the simple math calculations have been verified and a recognized statistics guru has ruled that these data can be used to generate some numbers that are statistically significant. I share his concern there. If these numbers became public, statistically significant or not, both sides of the ORV issue would seize and debate them publically. Sooooo.....I think Butch Street is the answer. The NPS directory says he is a management analyst in Denver at 303 - 987-6957. You and I should discuss these numbers only between you and me first. Once and if we reach a conclusion that we need to use the figures, maybe you and I can put Larry's mind at ease.



ORV Counts (v.3 - ALL DATA) (version 1).xls

Jeff Cobb
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Cape Hatteras Off-Road Vehicle Count Minimums 12/13/04

Key: Historic Data..... Year to Date.....
 Past Year..... Uncertain Data.....

Totals for Week Ending:	Bodie Island				Hatteras Island				Ocracoke Island			
	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Total	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Total	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Total
01/04/03					721	6	120	841				
01/11/03					291	7	42	291				
01/18/03					172	7	25	172				
01/25/03					92	6	15	107				
02/01/03					148	7	21	148				
02/08/03					85	2	43	298				
02/15/03					109	7	16	109				
02/22/03					92	7	13	92				
03/01/03					101	7	14	101				
03/08/03					73	6	12	85				
03/15/03					63	3	21	147				
03/22/03					169	4	42	296				
03/29/03												
04/05/03					199	5	40	279				
04/12/03												
04/19/03					815	4	204	1426				
04/26/03					684	5	137	958				
05/03/03	23	1	23	161	675	4	169	1181				
05/10/03	142	1	142	994	98	1	98	686				
05/17/03	19	1	19	133								
05/24/03	687	1	687	4809								
05/31/03					1843	5	369	2580				
06/07/03	41	1	41	287	224	4	56	392	414	4	104	725
06/14/03	280	7	40	280	691	3	230	1612	366	3	122	854
06/21/03	809	7	116	809	1102	5	220	1543	777	5	155	1088
06/28/03	1472	7	210	1472	741	6	124	865	587	4	147	1027
07/05/03	2761	7	394	2761	2339	6	390	2729	1657	6	276	1933
07/12/03	1306	7	187	1306	511	3	170	1192	936	6	156	1092
07/19/03	1258	7	180	1258	864	5	173	1210	838	6	140	978
07/26/03	1964	7	281	1964	1035	7	148	1035	1011	5	202	1415
08/02/03	1848	7	264	1848	885	1	885	6195	1191	5	238	1667
08/09/03	907	7	130	907	335	4	84	586	832	5	166	1165
08/16/03	984	7	141	984	1356	7	194	1356	957	6	160	1117
08/23/03	345	7	49	345	345	1	345	2415	943	6	157	1100
08/30/03	1475	7	211	1475	1556	5	311	2178	1345	7	192	1345
09/06/03					680	3	227	1587	726	5	145	1016
09/13/03	331	7	47	331	630	1	630	4410				
09/20/03	91	2	46	319	Isabel?	Isabel?			Isabel?	Isabel?		
09/27/03	Isabel?				Isabel?	Isabel?			Isabel?	Isabel?		
10/04/03	Isabel?				Isabel?	Isabel?			Isabel?	Isabel?		
10/11/03	91	2	46	319	Isabel?	Isabel?			Isabel?	Isabel?		
10/18/03	367	5	73	514	Isabel?	Isabel?			330	3	110	770
10/25/03	604	6	101	705	Isabel?	Isabel?			559	7	80	559
11/01/03	316	5	63	442	Isabel?	Isabel?			542	7	77	542
11/08/03	526	5	105	736	Isabel?	Isabel?			661	7	94	661
11/15/03	178	4	45	312	Isabel?	Isabel?			286	6	48	334
11/22/03	274	4	69	480	Isabel?	Isabel?						
11/29/03	890	5	178	1246	264	3	88	616				
12/06/03	721	4	180	1262	248	5	50	347				
12/13/03	308	4	77	539	618	6	103	721				
12/20/03	149	7	21	149	224	6	37	261				
12/27/03	347	7	50	347	160	5	32	224				
01/03/04	1009	5	202	1413	543	6	91	634				
01/10/04	207	7	30	207	272	6	45	317	65	5	13	91
01/17/04	105	7	15	105	96	5	19	134				
01/24/04	78	6	13	91	219	7	31	219	63	6	11	74
01/31/04	43	6	7	50	117	7	17	117				
02/07/04	38	5	8	53	54	5	11	76				
02/14/04	36	5	7	50	127	5	25	178				
02/21/04	43	6	7	50	27	1	27	189	69	5	14	97
02/28/04	26	2	13	91	124	6	21	145	24	3	8	56
03/06/04	104	5	21	146	150	6	25	175				
03/13/04	47	6	8	55	172	7	25	172				

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03/20/04	57	4	14	100	165	6	28	193	113	5	23	158
03/27/04	91	7	13	91	144	7	21	144	119	4	30	208
04/03/04	73	5	15	102	64	3	21	149				
04/10/04	117	5	23	164	540	5	108	756	341	5	68	477
04/17/04	10	1	10	70	289	3	96	674				
04/24/04	261	6	44	305	963	4	241	1685	376	6	63	439
05/01/04	199	3	66	464	610	7	87	610	926	5	185	1296
05/08/04	44	3	15	103	425	4	106	744	153	5	31	214
05/15/04	776	7	111	776	838	5	168	1173	304	5	61	426
05/22/04	812	5	162	1137	923	4	231	1615				
05/29/04	1390	5	278	1946	669	5	134	937				
06/05/04	1190	5	238	1666	789	6	132	921				
06/12/04	411	6	69	480	691	5	138	967				
06/19/04	1272	5	254	1781	1098	6	183	1281	330	5	66	462
06/26/04					601	5	120	841	612	5	122	857
07/03/04	1587	4	397	2777	2121	5	424	2969				
07/10/04	1618	4	405	2832	935	7	134	935				
07/17/04	1267	7	181	1267	1167	3	389	2723				
07/24/04					1172	7	167	1172				
07/31/04					1754	5	351	2456				
08/07/04									676	6	113	789
08/14/04	409	4	102	716	1026	5	205	1436				
08/21/04	1297	7	185	1297	944	7	135	944				
08/28/04	766	5	153	1072	1095	6	183	1278				
09/04/04	879	7	126	879	2103	7	300	2103				
09/11/04	502	7	72	502	1348	5	270	1887				
09/18/04	353	6	59	412	245	4	61	429				
09/25/04	339	7	48	339	704	5	141	986				
10/02/04	167	7	24	167	1104	7	158	1104	381	5	76	533
10/09/04	1089	7	156	1089	1132	7	162	1132				
10/16/04	511	5	102	715	1452	6	242	1694				
10/23/04		Count Not Taken			1574	7	225	1574				
10/30/04	242	7	35	242	571	5	114	799				
11/06/04		Count Not Taken			1238	5	248	1733				
11/13/04	226	6	38	264	744	5	149	1042				
11/20/04	308	6	51	359	1032	5	206	1445				
11/27/04	783	6	130.5	914	1202	6	200	1402				
12/04/04	290	4	72.5	508	599	4	150	1048				
12/11/04	214	4	53.5	375	353	4	88	618				
12/18/04												
12/25/04												
01/01/05												

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Estimated 2004 Minimum Vehicle Numbers Year to Date

	Bodie Island				Hatteras Island				Ocracoke Island			
	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Average	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Total	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Total
Totals	21,286	237	92	641	36,325	263	140	979	4,552	75	59	412

Daily Average Minimum by District:

Bodie Island.....	92	Hatteras Island.....	140	Ocracoke Island.....	59
Daily Average Minimum for Seashore.....	290				
Number of Days Year to Date.....	352				
Estimated Minimum Total ORV's Year to Date.....	102,170				

Estimated Minimum Vehicle Numbers for Most Recent Year

	Bodie Island				Hatteras Island				Ocracoke Island			
	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Total	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Total	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Total
Totals	22,090	255	89	622	37,327	280	135	945	4,552	75	59	412

Daily Average Minimum by District:

Bodie Island.....	89	Hatteras Island.....	135	Ocracoke Island.....	59
Daily Average Minimum for Seashore.....	283				
Number of Days per Year.....	365				
Estimated Minimum Total ORV's Year Most Recent Year.....	103,222				

Estimated Minimum Vehicles Since January 3, 2003

	Bodie Island				Hatteras Island				Ocracoke Island			
	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Total	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Total	Total Vehicles Observed	Number Days Observed	Estimated Daily Average	Estimated Weekly Total
Totals	42,800	393	110	769	57,563	442	147	1,026	19,510	178	107	752

Daily Minimum Vehicles By District:

Bodie Island.....	110	Hatteras Island.....	147	Ocracoke Island.....	107
Daily Average Minimum for Seashore.....	364				
Number of Days Since January 3, 2003.....	709				
Estimated Minimum Total ORV's Since January 3, 2003.....	257,970				

* These numbers do not always reflect an accurate count. The count occurs once a day, at various times of the day. Due to staff shortage, the count may not always be complete.