

REESTABLISHMENT OF RED WOLVES IN  
EASTERN NORTH CAROLINA  
ANNUAL SUMMARY  
1 JANUARY 1996 TO 31 DECEMBER 1996

U.S. FISH AND WILDLIFE SERVICE  
REGION IV  
ATLANTA, GEORGIA  
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by

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## INTRODUCTION

The purpose of this report is to summarize the activities of the U.S. Fish and Wildlife Service's (USFWS) efforts to reestablish a population of red wolves (Canis rufus) in eastern North Carolina in and around both the Alligator River (ARNWR) and Pocosin Lakes (PLNWR) National Wildlife Refuges from 1 January 1996 through 31 December 1996.

## RELEASES

During 1996, staff released eight wolves in the NC reestablishment area, [(2 adult pairs) 675M/760F released at Pocosin Lakes NWR on 05/21/96 and 753M/807F released at Mattamuskeet NWR on 06/24/96] and four single adults: 640M, 765F, 769M and 808F [Table 1]. Five released wolves [Bull Island (640M-93'; 807F, 808F-95); St. Vincent Island (769M, 765F-94')] were from island propagation projects (considered captive born). The remaining three wolves (675M, 753M, 760F) were born in the wild in NC and captured in an effort to produce releasable pairs. Adult 640M was returned to captivity on 05/26/96 after showing tolerance towards humans. Two wolves were killed by vehicles after release (769M, 760F); one died from an unknown cause (possibly a result of intraspecific aggression (765F) and one died from a systemic bacterial infection (807F).

Of the eight wolves released, three are currently free ranging (675M, 753M and 808F). Adult 675M paired with 593F (a wolf he was previously released with in 1995) after 760F was killed by a vehicle. Adult 753M stayed in the release area (his homerange) after 807F died and paired with 808F (807F's sibling) after 808F was released in the area. Released adults ranged in age from 14 months to 35 months.

## TRANSLOCATIONS

A total of seven wolves (675M, 745M, 753M, 795M, 813M, 814F, 850M) were captured, removed and re-released from private land during 1996. None of the released wolves returned to the private land they were removed from. Three of the wolves (pups 813M, 814F and adult 795M) were pulled due to private landowner's concerns about wolf/deer interactions. The remaining four wolves were paired and re-released: [(675M paired with 760F), 753M paired with 807F), (850M paired with 849F for release on island project - Little Cape St. George, FL) and 745M pulled from Virginia and released at PLNWR with 810F)].

## PRODUCTION IN THE WILD

During 1996, a minimum of 16 pups were produced from a minimum of 8 litters [Table 2]. Eight of twelve wolf pairs consorting together in eastern NC during the 1996 breeding season produced litters [Table 3]. Eight of the twelve breeding pairs had previously produced litters in the wild [Table 3]. Of the 16 adult wolves that bred in the wild during 1996, all were wild born. [Table 3].

### MONITORING

During 1996, project staff continued to conduct aerial telemetry in an effort to monitor free ranging wolf population in eastern NC. Project personnel flew 80 flights for a total of 158.3 hours (1.9 hr/flight) and recorded 2,113 wolf locations during 1996. Primarily using a modified version of the Woodstream #3 "soft-catch" leg hold trap project personnel captured 31 wolves a total of 35 times, 5 of the 31 wolf captures were 1996 pups.

### RED WOLF MORTALITY DURING 1996

During 1996 in Carolina, red wolf births were offset by the death of 7 wolves [Table 4]. Three wolves (760F, 769M, 849F) were killed by automobiles. Yearling female 807F [(452M x 449F - 95) CRNWR] died after release from heart failure as a result of systemic bacterial infection most likely incurred from intraspecific aggression with breeding adults while still on Bull Island. The remaining three wolves (519M, 765F, 796M) died from unknown causes.

### CURRENT POPULATION

The free ranging population of red wolves during 1996 had access to over 560,000 acres of public and private: forests, pocosins, swamps and agriculture fields on the Pamlico Peninsula in eastern NC.

As a result of releases, births, deaths and some management actions, the free-ranging red wolf population fluctuated on nearly a monthly basis [Table 5]. As of 31 December the population included a minimum of 38 wolves (84% wild born) that had been in the wild for an average of months [Table 6]. The average age was 35.3 months old. This population consisted of 10 social groups [Table 7]. In addition, up to 38 wolves had unknown fates due to lost radio contact or wild-born wolves that were observed but not captured) [Table 8].

During February 1997, the staff expect about 12 red wolf pairs to breed in the wild. These breedings should result in the production of about 21 to 25 pups which will mature to an age of self-sufficiency. Thus, by December 1997, the red wolf population should include 75 to 85 animals if new home ranges can be established, of which over 90% will have been born in the wild.

### DISPERSAL

There were three dispersal events during 1996 in eastern NC [Table 9]. All three of the dispersers were male. Dispersal ages for these red wolves ranged from 20 to 40 months for first time dispersers. The average age for dispersers was 30 months old. Dispersal distances ranged from 6 km to 150 km. Adult 745M [(331M x 394F - 94) Milltail Pack/ N. ARNWR] dispersed from his natal home range to agricultural fields adjacent to the Great Dismal Swamp NWR, VA).

### **CAPTIVE POPULATION**

During 1996, 12 to 15 captive wolves were maintained at the Alligator River NWR breeding facility. As of December 31, 15 wolves resided at the facility [Table 10].

Due to an overall lack of pen space within the red wolf captive breeding program, captive wolves were separated at the Sandy Ridge captive facility (ARNWR) to prohibit production of litters in 1996.

Captive breeding at the refuge has become an increasingly important component of the restoration effort. Since 1986, 143 wolves have been maintained at the facilities' 15 pens for a varying periods of time. This has included 30 captive adult pairs which have been maintained through breeding seasons. Eleven of these pairs bred successfully and produced 47 pups.

### **PUBLIC COMMUNICATION**

During this, the ninth year of the red wolf program in eastern NC, the red wolf crew continued to present programs designed to not only to educate the public about wolves but also to address concerns voiced by local communities. The wolf crew presented 34 red wolf programs including 10 wolf howling safaris in addition to filling 10 media requests for interviews and information.

### **EVENTS THROUGH 1996**

A wide variety of events developed during 1996 that affected red wolf recovery in eastern NC.

An eight state survey studying economic impacts of the red wolf project was conducted by Cornell University during 1996. The results showed broad and strong support for the re-establishment of the red wolf. About 75 percent of survey participants favor red wolf recovery. In addition, the conservative forecast was that red wolf activities could attract an additional 25,204 households per year to eastern North Carolina with an economic impact forecast of about \$37.5 million per year to the region.

A second local survey was conducted by East Carolina University to measure citizen support. Eighty percent of the responding eastern NC residents indicate that the program is important and seventy-six percent of respondents indicate that they would be willing to contribute some amount to support the reintroduction program. Of particular interest was the most common reason given for hypothetical donating, "the ecosystem value of the red wolf."

Efforts to establish a Red Wolf Coalition continued throughout 1996 and proved to be successful; the Coalition will be up and running in 1997.

Little St. George Island, FL was evaluated as a possible RW island propagation site. Plans are set to trial release a pair of red

wolves onto the island during 1997.

Another letter of intent to sue USFWS in an effort to delist the red wolf from the ES list was received during 1996.

#### **ACKNOWLEDGMENTS**

Many people and organizations have contributed to the success of the red wolf reestablishment effort in eastern NC during the last year. Biologists Art Beyer, Jennifer Gilbreath and Jonathan Windley continued to be highly productive during 1996. We would like to thank: the staffs at Alligator River and Pocosin Lakes National Wildlife Refuges; Red Wolf Species Coordinator, Gary Henry and the FWS Asheville Field Office for their support and help throughout the year. We would also like to thank the 1996 red wolf volunteer caretakers: Kim Romain - January 96 - February 96, Marjolein van Polanen Petel - March 96 - August 96, and Aubrey White - September 96 - December 96 for all their efforts while they were here; they all did an outstanding job. Many thanks go out to the Red Wolf SSP Coordinator Will Waddell, RW Primary Caretaker Sue Behrns and all of the Red Wolf SSP cooperating zoos and breeding facilities for their participation in the RWSSP. Special thanks go to both the North Banks Rotary Club for all their efforts with funding our caretakers and for continuing to lead fund-raising programs and to the National Fish and Wildlife Foundation for continuing to administer the Red Wolf Fund. Thank you all.

Table 1. Information about red wolf pairs released into eastern North Carolina from 1 January 1996 to 31 December 1996.

Wolf Pair	Release Date	Release Age (mos)	# Months Paired <sup>a</sup>	Location of Home Range <sup>b</sup>	Produced Offspring (Y/N)	Outcome
675M	05/21/96	36.75	.75	private	N	free ranging (paired)
760F	"	25.3	"	"	N	vehicle strike
753M	06/24/96	25.75	0	public	N	free ranging (paired)
807F	"	14.1	"	"	N	bacterial infection/death

<sup>a</sup> - Number of months paired together before release.

<sup>b</sup> - Public lands include State and Federal holdings; Private lands accessed through agreements with landowners.

Table 2. Information about red wolves born in the wild in northeastern North Carolina during the 1996 breeding season.

Wolf# & sex	Parents (M/F)	Birth date	Period monitored	# Mos. monitored	Comments
820M	(392/344?)	4/25/96	-----	-----	transponded as 1 week old pups in den
821M	" "	"	-----	-----	
849F	(519/500)	5/01/96	-----	-----	vehicle 10/12/96 captured 11/20/96 moved to SVNWR to pair w/ 847F
850M	" "	"	-----	-----	
873F	(442/508)	4/12/96	11/06/96	1.75	free ranging Captured in 97
907M	" "	"	-----	-----	
877F	(671/673)	4/10/96	-----	-----	observed from air with 2 sibs on 09/23/96
878F	" "	"	-----	-----	
879M	" "	"	-----	-----	
880M	(768/665)	5/01/96	-----	-----	observed with sibs and 768M & 665F on 10/03/96
881M	" "	"	-----	-----	
882F	" "	"	-----	-----	
883M	(???)	5/01/96	11/08/95	1.75	observed at den on 06/07/96
887M	(???)	4/30/96	-----	-----	captured in 97
888M	(???)	4/12/96	-----	-----	captured in 97
889F	" "	"	-----	-----	" " "

Table 3. Information about red wolves consorting together during the 1996 breeding season in eastern North Carolina.

Wolf# & sex	Birth location	Produced litter 96	Produced litter previously	Months spent together	Outcome
331M 394F	captivity captivity	no "	yes (w) yes (w)	62	free ranging free ranging
752M 444F	wild wild	no "	no yes (w)	13.6	free ranging free ranging
506M? 502F	wild wild	yes yes	yes (w) yes (w)	45.5	offair 7/95 free ranging
392M 344F?	captivity wild	yes yes	yes (w) yes (w)	88.75	free ranging offair 11/95
519M 500F?	captivity wild	yes yes	yes (w) yes (w)	36	dead 6/96 offair 8/96
442M 508F	wild wild	yes yes	yes (w) yes (w)	23.25	free ranging free ranging
670M? 503F	wild wild	yes yes	yes (w) yes (w)	37.5	offair 1/95 free ranging
671M 673F	wild wild	yes yes	no no	34.5	free ranging free ranging
662M 815F	wild wild	no no	no no	9.5	free ranging free ranging
768M 665F	wild wild	yes yes	no no	11.2	free ranging free ranging
???M 382F	???? captivity	? no	? yes (w)	2.75	obs. 10/96 free ranging
886M? 774F	wild wild	? yes	? no	?	free ranging

Table 4. Information on mortality of red wolves in eastern North Carolina from 1 January through 31 December 1996.

Wolf	Date of Death	# Mos in Wild	Cause of Death
760F	05/24/96	23.75	vehicle strike
796M	05/24/96	13.5	unknown
519M	06/22/96	47.75	unknown
765F	07/03/96	6.25	unknown
807F	09/29/96	3.0	infection
849F	10/14/96	6.5	vehicle strike
769M	12/06/96	7.0	vehicle strike

Table 5. Information on monthly population fluxes of radio collared red wolves in eastern North Carolina during 1996.

Month	Population	Month	Population
January	40	July	39
February	40	August	37
March	44	September	36
April	40	October	38
May	40	November	42
June	40	December	38

Table 6. Free-ranging red wolves in eastern North Carolina as of 31 December 1996.

Wolf# & sex	Birth location	Age <sup>a</sup> (mos)	# Mos. in wild (mos) <sup>b</sup>	Location of home range	Comments
331M	captivity	104.25	95.2	federal land	consorting with 394F
382F	captivity	91.5	52.9	federal land	consorting with unknown male
392M	captivity	91.1	88.7	private land	consorting with 344F (off air)
442M	wild	80.8	80.8	private land	consorting with 508F
444F	wild	79.7	79.7	federal land	consorting with 752M
502F	wild	68.0	68.0	private lane	possibly consorting with 506M (off air)
503F	wild	68.0	68.0	private land	probably consorting with 670M (off air)
505F	wild	68.1	68.1	private land	consorting with unknown male
508F	wild	68.1	66.5	private land	consorting with 442M
582F	wild	56.1	56.1	private land	lone female
662M	wild	44.5	44.5	federal land	consorting with 815F
663M	wild	44.5	44.5	private land	lone male
665F	wild	44.0	44.0	private land	consorting with 768M
666M	wild	44.0	44.0	private land	consorting with 756F
671M	wild	44.0	44.0	private land	consorting with 673F
673F	wild	44.0	44.0	private land	consorting with 671M
675M	wild	44.0	44.5	private land	consorting with 593F (off air)
746M	wild	32.8	32.8	federal land	pack member
747F	wild	32.8	32.8	federal land	pack member
752M	wild	32.0	32.0	federal land	consorting with 444F
753M	wild	32.0	32.0	federal land	consorting with 808F
756F	wild	32.0	32.0	private land	consorting with 666M
763F	wild	32.1	32.1	private land	pack member
768M	wild	32.6	32.6	private land	consorting with 665F
772M	wild	32.0	32.0	private land	pack member
774F	wild	32.0	32.0	private land	consorting with unknown male
795M	wild	32.0	32.0	private land	lone male
798F	wild	12.8	12.8	federal land	pack member
799M	wild	12.8	12.8	federal land	pack member
800F	wild	12.8	12.8	federal land	pack member
804M	wild	12.8	12.8	private land	lone male
806F	wild	12.8	12.8	private land	lone male
808F	captivity	12.8	12.8	federal land	consorting with 753M
813M	wild	12.8	12.8	private land	lone male
815F	wild	56.0	56.0	federal land	consorting with 662M
873F	wild	12.8	12.8	private land	pack member
874M	wild	20.0	20.0	private land	pack member

<sup>a</sup> - Age was calculated relative to 31 December 1996.

(cont.)

Table 6. Free-ranging red wolves in eastern North Carolina as of 31 December 1996. (cont.)

- b - Number of months in the wild did not necessarily span the period from the date of release for animals born in captivity or from birth for animals born in the wild, as some wolves were placed in captivity for varying periods of time and subsequently re-released.

Table 7. Information on social structure of red wolves free ranging in eastern North Carolina on 31 December 1996.

Pack	Land ownership	Adults		Yearlings		Pups	
		M	F	M	F	M	F
Milltail	public	331 746	394 747	799	798 800		
River	public	662	815				
Air Force	public	???	382				
Gator	public	752	444				
Lux Farms	private	506 <sup>b</sup> 772M	502			887	
Mattamuskeet Ventures	private	392	344 <sup>c</sup> 763			520 <sup>d</sup> 521 <sup>d</sup>	
Matt. Farms	private	671	673			879 <sup>e</sup> 878	877 <sup>e</sup>
Lake Landing	public	753	808				
Kilkenny Farms	private	442	508	874			873
Fairfield	private	666	756				
Weyerhaeuser	private	768	665			880 <sup>e</sup> 881 <sup>e</sup>	882 <sup>e</sup>
Pocosin	public	670 <sup>f</sup>	503	768		888 <sup>e</sup>	889 <sup>e</sup>
Newlands	private	886	774			883	
Tyson	private	675	593				
Sunnyside	private	???	505				

<sup>a</sup> - Unknown adult wolf observed with 382F from air on several occasions during 1996.

<sup>b</sup> - 506M not audible; last location for 506M was on 07/17/95; estimated collar quit date was 09/01/96.

<sup>c</sup> - 344F not audible; last location for 344F was on 11/13/95; estimated collar quit date was 09/17/96.

<sup>d</sup> - Pups 520M & 521M processed in den on 5/2/96; as of 12/31/96 both had not been captured.

<sup>e</sup> - Pups: 877F/879M, 880M/881M/882F, 888M/889F captured in 1997

<sup>f</sup> - 670M not audible; last location for 670 was on 01/17/95.

Table 8. Information about red wolves free ranging in eastern North Carolina with fates unknown as of 31 December 1996.

Wolf # & sex	Age <sup>a</sup>	Birth location	Comments
316F	9	captivity	last location 12/20/89
344F	8	wild	last location 11/13/95
499?	5	wild	observed 06/08/91, never captured
500F	5	wild	last location in homerange 08/05/96; collar expired
506M	5	wild	last location 07/17/95; collar malfunc.
509?	5	wild	observed 06/10/92, never captured; Possibly 815F (captured 3 km.N of 509's natal homerange, paired w/ 662M)
517M	4	captivity	last location 09/07/92
583M	4	wild	last location 03/22/95; dispersed from natal homerange on 12/30/94 (392M x 344F)
593F	3	wild	last location in homerange w/ 675M on 06/27/96
634M	3	captivity	last location 12/01/93
667?	3	wild	observed with 392M and 344F on 07/02/93; never captured
669F	3	wild	last location 11/23/93
670M	3	wild	last location 01/17/95
674M	3	wild	last location 01/04/96
700?	2	wild	observed with 496F and siblings 698F and 699F on 05/18/94
748?	2	wild	observed with siblings (749? and 750?) and mother (444F) on 08/09/94
749?	2	wild	observed with siblings (748? and 750?) and mother (444F) on 08/09/94
750?	2	wild	observed with siblings (748? and 749?) and mother (444F) on 08/09/94
758?	2	wild	observed on 10/01/94, sibling of 670M & 671M [1993 litter of (? x 508F)]
761F	2	wild	last location 01/04/96 in homerange
762?	2	wild	observed in wild while siblings (759M, 760F, 761F) were in captivity at SR
766M	2	wild	last location 10/20/95, dispersed from natal homerange on 10/10/95 (670M x 503F)
775?	2	wild	observed on 02/25/95 while trapping siblings (772M, 773F, & 774F)
797?	1	wild	observed with parents 331M & 394F & sibling 796? from air on 6/27/95

Free-ranging wolves whose fates remain uncertain include: (cont.)

Wolf # & sex	Age <sup>a</sup>	Birth location	Comments
801?	1	wild	observed with parents 331M & 394F, 2 yearlings and 5 other pups (796?-801?) from ground on 6/26/95
803M	1	wild	last location in natal homerange on 06/04/96
805?	1	wild	observed with parents 519M & 500F, and yearling 756F from air on 9/11/95
810F	1	wild	last location in natal homerange on 07/25/96
811F	1	wild	last location in natal homerange on 11/12/96; collar quit date - 10/98
814F	1	wild	last location on 02/29/96
820M	pup	wild	processed in den on 5/2/96 (392M x 344F)
821M	pup	wild	processed in den on 5/2/96 (392M x 344F)
877?	pup	wild	observed with dam 673F and sibs 878? & 879? from air on 09/23/96
878?	pup	wild	" "
879?	pup	wild	" "
880?	pup	wild	observed with adults 768M & 665F and sibs 881? & 882? from air on 10/10/96
881?	pup	wild	" "
882?	pup	wild	" "

a - Age was calculated as if wolf was alive as of 31 December 1995.

Table 9. Information about dispersal by red wolves born in the wild in eastern North Carolina during 1996.

Wolf# & sex	Birth date	Dispersal date	age (mos) <sup>a</sup>	Dist/Dir traveled	Comments
666M	05/01/93	08/30/96	40.0	6 km W	Paired with female
745M	04/05/94	02/26/96	23.0	150 km NW	Captured and returned to North Carolina
804M	04/28/95	12/20/96	20.0	52 km NW	Lone male

<sup>a</sup> - Age was calculated from birth date through 12/31/96, death date, or date of disappearance.

Table 10. Information about the captive population of red wolves housed at ARNWR (Sandy Ridge) captive facility as of 31 December 1996.

Wolf # & sex	Age <sup>a</sup>	Birth location	Comments
448F	5	captivity	paired in pen alone on 12/17/97
520M	4	captivity	placed in pen with 561F on 05/21/96
537M	4	captivity	transferred from GSMNP on 09/02/94; placed with 647F on 08/26/96
561F	4	captivity	released w/ 663M on 03/16/95; returned to captivity on 03/22/95 (human tolerant); placed in pen with 520M on 05/21/96
632M	3	captivity	placed in pen w/ 011F on 07/19/96
633M	3	captivity	placed in pen with 448F on 06/11/96
647F	3	captivity	received from Pitt. Zoo on 08/26/96; placed with 537M on 08/26/96
677M	2	captivity	born 04/13/94, [374M x 437F], placed w/ sibling 678F on 06/11/96
678F	2	captivity	born 04/13/94, [374M x 437F], placed w/ sibling 677M on 06/11/96
713F	2	captivity	born 04/25/94, [451M x 468F], placed in pen alone on 07/19/96
719F	2	captivity	born 05/02/94, [341M x 378F], placed with sibling 720F
720F	2	captivity	born 05/02/94, [341M x 378F], placed with sibling 719F
745M	2	wild	captured at GDSNWR (VA), placed in captivity on 12/10/96; to be paired w/ yearling 812F [452M x 449F(CRNWR)] and released in early Spring, 1997
767M	2	captivity	received from SVNWR on 12/19/96 to be paired with 523F (GSMNP) and released in early Spring, 1997
850M	pup	wild	captured and placed in captivity on 11/20/96; to be paired with pup 847F and released on Cape St. George Island

<sup>a</sup> - age calculated relative to 31 December 1996

Table 11. Media request and public programs provided by eastern North Carolina red wolf personnel from 1 January 1996 through 31 December 1996.

DATE	ORGANIZATION/INDIVIDUAL	NUMBER	PURPOSE OF CONTACT
02/12/96	Greenville Rotary Club	60	RW program
02/13/96	1 <sup>st</sup> Flight Elem. School	100's	RW booth
02/14-15	SE Wildlife Show (SC)	1000's	RW booth
03/1-3/96	Dixie Deer Classic (Ral.)	1000's	RW booth
03/07/96	Arrowhead Int. Field School	10	RW tour/program
03/10/96	CBS radio <u>The Osgood Files</u>		Interview
03/12/96	Tyrrell Co. YCC	20	RW program
03/14/96	SUNY State Univ.-NY students	12	RW program
03/29/96	<u>Island Packet Newspaper</u> (SC)		Interview
04/18/96	Airstream Club (Hyde Co.)	40	RW program
04/21/96	Earth Day Show - (Pitt.Co-NC)	75	RW booth
04/22/96	UNCW- Lecture Series	85	RW program
04/30/96	R-4, Atlanta, GA	5	RW update
05/03/96	1 <sup>st</sup> Flight Elem.- Girl Scouts	16	RW program
05/03/96	Rockwood Nature Center - AR	12	RW program
05/08/96	River Park North am Pitt Co.	25	RW program
05/08/96	River Park North pm Pitt Co.	25	RW program
05/17/96	Manteo Middle School	150	RW booth
05/18/96	Engelhard Seafood Festival	100's	RW booth
05/19/96	Girl Scout Recruitment Fair	30	RW booth
05/22/96	NCSU Ral, NC		RW presentation
05/25/96	NC Aquarium/ARNWR	65	RW Howling Safari
06/20/96	NC Aquarium	65	RW program
06/26/96	NC Aquarium/ARNWR	41	RW Howling Safari
06/27/96	River Park North (Pitt Co.)	12	RW program
06/29/96	Fossil Rim - Glen Rose, TX	85	RW program/howling
07/09/96	Tyrrell Co. Children Group	15	RW program
07/15/96	Delta Council, Jackson, MS	35	RW presentation
07/22/96	NC Aquarium	31	RW program
07/24/96	NC Aquarium/ARNWR	80	RW Howling Safari
07/25/96	River Park North (Pitt Co.)	12	RW program
08/02/96	NC Aquarium/ARNWR	80	RW Howling Safari
08/08/96	FWS Ecoteam Meeting	16	RW presentation
08/20/96	Scholastic Network (www)	100's	RW web page
08/21/96	NC Aquarium/ARNWR	98	RW Howling Safari
09/10/96	FWS R-4 RD/RF-III	2	RW presentation
09/16/96	Boy Scout Troop 106 (Manteo)	23	RW program
09/18/96	Renew America Annual Bulletin		Interview
09/20/96	John Hancock Annual Newsletter		Interview
10/05/96	National Refuge Week	48	RW Howling Safari
10/16/96	WTVD-Ch.11 (Durham, NC)		Interview/filming
10/22/96	1 <sup>st</sup> Flight Middle School-am	30	RW program
10/22/96	1 <sup>st</sup> Flight Middle School-pm	30	RW program
10/22/96	NC Zoo Education Coordinator	2	Interview/filming
10/25/96	"Howl-O-Ween"/WVEC-Ch.13	175	RW Howling Saf./film
10/29/96	RW Summit Meeting	20	RW presentation
11/13/96	Dr. Masaaki Koganezawa (Nipon)		RW tour

Table 11. Media request and public programs provided by eastern North Carolina red wolf personnel from 1 January 1996 through 31 December 1996. (Cont.)

<u>DATE</u>	<u>ORGANIZATION/INDIVIDUAL</u>	<u>NUMBER</u>	<u>PURPOSE OF CONTACT</u>
11/14/96	"Wolves of America" conf.	75	RW presentations
11/14/96	Greensboro Elem. (NC)	70	RW program
11/21/96	<u>Washington Daily News</u> (NC)		Interview
12/03/96	<u>Nature Photographer</u> mag.		Interview/tour
12/04/96	NC Nature Cons. Biologist/WHMO		Tour
12/06/96	Tyrrell Co. 4 <sup>th</sup> Graders	60	RW programs
12/7-8/96	Swan Days Festival - MNWR 100's		RW booth
12/12/96	<u>National Geographic</u> Mag.	8	Tour/filming