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Cliff-Nesting Raptors in Boulder Count 2001 Status Report

Nan Lederer

CLIFF-NESTING RAPTORS IN BOULDER COUNTY

2001 STATUS REPORT

A Compilation of Data from Numerous Agencies and Groups that Monitor Nests of Golden Eagles, Prairie Falcons and Peregrine Falcons

Compiled by Nan Lederer, Boulder County Nature Association December 30, 2001

INTRODUCTION

The purpose of this report is to bring together and summarize in one document the information from five different agencies and organizations that monitor the nest locations, activity, and success of cliff-nesting raptors in Boulder County.

In 1982 the Boulder County Nature Association (BCNA) began a project to systematically locate and watch nesting golden eagles and prairie falcons in Boulder County, to determine their productivity and to prevent human disturbance to the nests if any was occurring. During subsequent years, these monitoring activities and volunteer coordination were mostly taken on by the agencies who had jurisdiction over the land where the nests were located: City of Boulder Mountain Parks, City of Boulder Open Space (these last two now combined into one agency), Boulder County Parks and Open Space, the Colorado Division of Wildlife, and Eldorado Canyon State Park. Since 1991, peregrine falcons have been nesting within the study area, and their status has been monitored as well.

2001 NEST STATUS

Golden Eagle

Table 1 summarizes the status of each nesting territory from 1982 to 2001. Figure 1 is a graph of number of young produced from 1983 to 2001. Golden eagles were very successful in producing young this year.

In 2001, there were 7 territories known to be active. In past reports I have referred to 10 known territories in Boulder County, based on our experience since 1982 as well as other studies going back to the 1940's. However, territories can shift over time, and our reporting has to be flexible as well. For example, in 2000 there was an active nest in Marietta Canyon on Heil Ranch, long thought by some to be an alternate nest site within the Lefthand Palisades territory. But the Palisades nest was simultaneously active, both last year and this year. This year, yet another new active nest was found on Heil Ranch, in an unnamed box canyon. As another example, the Eldorado Springs territory, active in the past, has had no known nesting since 1985.

Of these 7 investigated active territories, at least 6 attempted to nest, and all were successful, fledging a total of 8 young. This represents a very good reproductive rate for the county. The highest number of young ever documented in one year in the study is 8 (in 1985, 1990, 1993, 1998, and 2001). The average number over the past 19 years is 5.5. Of course there is variation

from year to year in the intensity of field work. All numbers of active nests and young produced are minimum numbers.

Each territory is discussed below, in order from south to north. Land ownership/jurisdiction for each nest site is indicated. Due to limited field observation time, young birds are not always seen in the act of fledging or shortly thereafter, while still in the nest vicinity. We assume that a young bird has successfully fledged if we have observed it on the nest shortly before fledging time, and it appears healthy and fully feathered or nearly so.

- Eldorado Springs (City of Boulder Open Space & Mt. Parks, and Eldorado Canyon State Park). Apparently inactive. No definite nest activity has taken place in this territory since 1985.
- Skunk Canyon (City of Boulder Open Space & Mt. Parks). Active; one young fledged.
- **Boulder Canyon** (U.S. Forest Service). Active, but apparently no eggs laid. A pair of eagles occupied this territory and showed interest in an alternate nest site on Security Risk Crag that hasn't been used since before the beginning of this study. However, by late in the nesting season, the birds were still spending their time flying around together and no eggs were observed on any of the nests in the territory.
- North Fork of Middle Boulder Creek (West of town of Eldora; Forest Service). No active nest has been found since the 1950's, but adult eagles are sometimes sighted in the territory.
- Boulder North (Private). Territory not investigated.
- Lefthand Palisades (City of Boulder Open Space & Mt. Parks). Active; one young fledged.
- Marietta Canyon (Boulder County). Active; two young fledged.
- **Box Canyon** (Boulder County). Active; two young fledged. This site on Heil Ranch was unknown before this year. It is approximately 2 miles from the Lower St. Vrain Canyon site, and may be an alternate nest in that territory.
- St. Vrain Canyon, Lower (Forest Service). Inactive. Is this an alternate nest in a territory that includes the Box Canyon site, which was active this year?
- St. Vrain Canyon, Upper (Forest Service). This area received little field work this year, and no eagles were observed. Usually, eagles are seen but no active nest is found.
- Lyons / Meadow Park (Boulder County). Active; one young fledged
- **Rabbit Mountain** (Boulder County). Active, one young fledged from west side of the Rhino's Horn.



Prairie Falcon

Table 2 summarizes the status of each nesting territory from 1983 to 2001. Figure 2 is a graph of number of young produced from 1984 to 2001. Productivity of young was extremely high this year.

2001 status of breeding territories is shown below, in order from south to north. Ten known territories in the study area were investigated. Seven were active; six of these were known to have produced young, with a total of 22 young fledged. This represents very good reproduction compared with previous years, with only 1990 having as many young fledged.

- Bull Gulch (private). Not investigated. This site is actually in Jefferson County, but is sometimes monitored in this study as it is very close to Boulder County.
- Eldorado Mountain (Mickey Mouse Wall) (City of Boulder Open Space & Mt. Parks). Inactive.
- Eldorado Canyon (Eldorado Canyon State Park). Active; at least two young fledged.
- Shadow Canyon (City of Boulder Open Space & Mt. Parks). Active; four young fledged.
- Fern Canyon (City of Boulder Open Space & Mt. Parks). Active; five young fledged.
- Bear Canyon (City of Boulder Open Space & Mt. Parks). Active; five young fledged.
- Third Flatiron (City of Boulder Open Space & Mt. Parks). Active; three young fledged.
- Mount Sanitas (private). Not investigated.
- South St. Vrain Canyon (Forest Service). Inactive
- Steamboat Mountain (private). Occupied briefly early in season.

Peregrine Falcon

In 2001, only one site was known to be active, and the nest failed. **Table 3** summarizes nesting status from 1991 to 2001. Figure 3 is a graph of number of young produced from 1991 to 2001. This year was the first since 1995 when no young were produced. The past five years had seen an impressive comeback of this species.

- Eldorado Mountain (City of Boulder Open Space & Mt. Parks). Inactive
- Matron (City of Boulder Open Space & Mt. Parks). Active, but nest failed.
- Shadow Canyon (City of Boulder Open Space & Mt. Parks). Inactive, as the alternate site at the Matron was used.

- Third Flatiron (City of Boulder Open Space & Mt. Parks). Inactive; territory used by prairie falcons.
- South St. Vrain (U.S. Forest Service). Inactive.
- Steamboat Mountain (private). Inactive; territory occupied briefly by prairie falcon.

PROTECTIVE MANAGEMENT

City of Boulder Open Space and Mountain Parks

Areas surrounding raptor nests are closed to hiking and rock climbing every year starting February 1. Closures are lifted when nesting activity is completed.

Boulder County Parks and Open Space

The Rabbit Mountain site is closed to recreational use from February 1 through July 31 whenever the nest is active.

<u>Eldorado Canyon State Park</u> Climbing closures are in effect for falcon nesting areas from February 1 until after young fledge.

Roosevelt National Forest

Management in the Boulder Canyon territory is complicated, as there are two or three widely separated nests which the eagles choose between unpredictably. This year, all sites were posted closed to climbing until approximately April 20, when it was clear that none of the nests was active.

Information about wildlife closures in the area is available at any time from the Boulder FYI phone line, 303-441-4060 ext. 420.

ACKNOWLEDGMENTS

Many thanks go to the numerous agency representatives who provided information for this report and who have been working to coordinate monitoring efforts and compilation of information: Steve Armstead, Lisa Dierauf and Cary Richardson of City of Boulder Open Space and Mountain Parks; Mark Brennan and Libby Henits of Boulder County Parks and Open Space; Steve Muehlhauser of Eldorado Canyon State Park; Bryan Posthumus of Jefferson County Open Space; Phil Aragon, Jerry Craig, Tina Jungwirth and Bob Dellapina of the Colorado Division of Wildlife; Beverly Baker of the U.S. Forest Service; and Mike Figgs of the Boulder County Nature Association. Dozens of volunteers and rangers assisted in monitoring nests; their efforts are greatly appreciated.



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nt Mtn.	Nest failed, 1 yg	1 yg. fledged,	2 yg. fledged,	1 yg. fledged	I yg. fledged	2 yg. fledged,	l yg. fledged,
	Meadow Park	Meadow Park	Meadow Park	Meadow Park		Meadow Park	Meadow Park
SUG	2 yg. fledged,	l yg. fledged,	l yg. fledged,	l yg. fledged,	Terr. occupied	l yg. fledged,	l yg. fledged,
oer St. Vrain	Not investigated	Not investigated	Теп. асйve	I yg. fledged	Теп. оссиріеа	Terr. occupied	Undetermined
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	Cracking Dome	Cracking Dome	Cracking Dome	during incub.,	Cracking Dome		Did this pr. move
ver St. Vrain	Nest failed,	I yg. died,	1 yg. fledged,	Nest failed	2 yg. fledged,	Terr. inactive.	Terr. inactive.
K Canyon							20 78: IIORGO
<u>uomus J</u>							2 yg. fledged
novins Canyon						l yg. fledged	2 yg. fledged
	Marietta Canyon	Palisades	Arion sebesiles				
səbesilsed bredt	I yg. fledged,	1 yg. fledged,	I yg. fledged,	2 yg. fledged	l yg. fledged	l yg. fledged	l yg. fledged
ulder North	I yg. fledged	Not investigated	Not investigated	Not investigated	Not investigated	Not investigated	Not investigated
th Fork	Terr. active	Not investigated	Not investigated	Not investigated	Not investigated	Not investigated	Not investigated
	yg. died		Eagle Rock	yg. died		Eagle Rock	
	Eagle Rock, 1	Eagle Rock	during incub.,	Eagle Rock; 1	Eagle Rock	during incub.,	no nest
ulder Canyon	l yg. fledged,	1 yg. fledged,	Nest failed	I yg. fledged,	I yg. fledged,	Nest failed	Terr. active,
	nest attempt	Superpower	erpower; I died			Seal Rock	
unk Canyon	Теп. асцие, по	l yg. fledged,	-qu2 ,.bgft .gy I	2 yg. fledged	2 yg. fledged	2 yg. fledged	l yg. fledged
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sgrings onado	evitoral	Inactive	Іласціче	Inactive	Inactive	Inactive	Inactive
(direction of the source)							
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ole 1. Americ County Gol	den Eagle nest status	(00000000)					



Fig. 1. Golden eagle productivity in Boulder County from 1983 to 2001

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	falcons	talcons	talcons			spide & eggs					
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undo Mtn.	Inactive * * *	Inactive	evitoeni	Inactive	Inactive	1 yg. fledged;	3 yg. fledged	1 yg. fledged	3 yg. fledged	begbeñ .gy E	evitoeni
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Fig. 3. Peregrine falcon productivity in Boulder County from 1991 to 2001

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1 auto 1. Lounder County Golden Eagle nest status	רוז דימלור זוראו אומות											_	
Territory (south to north)	1982	1983	1984	1985	1986	1987	1988	1989	1990	1661	1992	1993	1994
Eldorado Springs (Eldorado Canyon)	1 adult seen	Incub., Mouse Ears; failed	Теп. active*	1 yg. fledged,** N. of Mouse E.	Terr. active	Undetermined	Undetermined	Terr.active	Undetermined	Inactive	Inactive	Inactive	Inactive
Skunk Canyon	Not investigated 2 yg. fledged, Inferno	d 2 yg. fledged, Inferno	l yg. fledged, Inferno	2 yg. fledged, Superpower	2 yg. fledged, Inferno	Terr. active, did not nest	Terr. active, did not nest	2 yg. fledged, Inferno	I yg. died after Nest fai fledging, Inferno Inferno	हि	Terr. active, no nest attempt	1 yg. fledged	Terr. active, nest failed
Boulder Canyon	Terr. active	Terr. active	2 yg. fledged, Eagle Rock	1 yg. fledged, Eagle Rock	At least 1 yg. fledged, Bitty Buttress	Undetermined	Incub. Eagle Rock; failed	1 yg. fledged, Blob Rock; 1 yg. died	2 yg. fledged, Eagle Rock	1 yg. fledged, Eagle Rock, 1 yg. died	Nest failed during incubat., Blob Rock	Nest failed during incubat., Bitty Buttress	Nest failed during incub., Eagle Rock
North Fork	Terr. active	Тепт. active	2 subadults seen	2 subadults seen Not investigated Undetermined	Undetermined	Undetermined	Undetermined	Not investigated Terr. active	Terr. active	Not investigated Terr. active	Теп. active	Not investigated Not investigated	Not investigated
Boulder North	Not investigated	1 Not investigated	1 Not investigated	Not investigated Not investigated Not investigated Not investigated Not investigated Not investigated	Not investigated		Not investigated	Not investigated	Not investigated	Not investigated	Not investigated	Not investigated	Not investigated
Lefthand Palisades	1 yg. fledged	Тетт. active	2 yg. fledged	2 yg. fledged	1 yg. fledged	Incub.; nest failed	1 yg. fledged	Nest failed	1 yg. fledged, Palisades South	Nest failed dur- ing incubation	1 yg. fledged, Palisades North	1 yg. fledged, 2 yg. fledged, Palisades North Palisades North	Tеп. active
Marietta Canyon						This site conside	red to be alternate	nest site for Left	hand Palisades te	This site considered to be alternate nest site for Lefthand Palisades territory, until 2000, when both sites were used simultaneously.	, when both sites	were used simult	meously.
Box Canyon						This site unknown until 2001	n until 2001						
Lower St. Vrain	Terr. active	New mate; late nest-building, unsuccessful	2 yg., nest fell off cliff; fate unknown	2 yg. fledged, "Cracking Dome" nest	2 yg. fledged, "Cracking Dome" nest	1 yg. fledged	Terr. active	Terr. active, taken over by ravens	1 yg. fledged, Cracking Dome	Unknown	Terr. active	1 yg. fledged, Cracking Dome	Inactive
Upper St. Vrain	Terr. active	1 yg., S. Sheep Mtn.***	Terr. active	Terr. active	Terr. active	Теп. асцие	2 yg. S. Sheep Mtn.	Terr. active	Terr. active	Terr. active	Terr. active	Terr. active	Inactive
Suova	Not investigated	d Not investigate	d Not investigated	Not investigated Not investigated Not investigated Not investigated 1 yg., tree nest Stone Canyon	1 yg., tree nest Stone Canyon	Pair carry- ing sticks	2 yg.	At least 1 yg. fledged	2 yg. fledged, Meadow Park	1 yg. fledged Meadow Park	nest failed, Meadow Park	2 yg. fledged, Meadow Park	2 yg. fledged, Meadow Park
Rabbit Mtn.	Not investigated	d Not investigate	d Not investigated	Not investigated 2 yg. fledged	Not investigated	Not investigated	Not investigated	Not investigated	2 yg. fledged	Not investigated		2 yg. fledged, 2 yg. fledged, 1 yg. fledged, Rhino's Horn W Rhino's Horn E	1 yg. fledged, Rhino's Hom E
Total young presumed fledged from 12 territories	I	3	2	~	2	1	5	4	8	2	3	∞	3
†Undetermined means insufficient field work to establish territory status.	ent field work to e	stablish territory	status.										
*Territory active means frequent sightings of cagles in territory, but no active nest found. **Young fledged means either that voung were observed flying or that they were fully feathered and successful fledging was assumed.	nt sightings of cag that voung were of	les in territory, but be been been been been been been been	ut no active nest for that they were full	ound. ly feathered and su	Iccessful fledging	was assumed.							
***if fledene not specified means that young were seen early in the season and later visits were not made to confirm fledene.	cans that voung we	The seen early in the	he ceacon and late	r visite were not n	hade to confirm fl	-drine							

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2. Boulder County a	and vicinity Prairie	e Falcon nest stati	51																	
Territory	£861	#86 T	5861	9861	<u>2861</u>	8861	_	6861	0661	1661	2661	£661	7661	<u>5661</u>	9661	<u>266</u> 1	8661	6661	0002	1002
(thron of throe																				
nich	Not investigated	Not investigated	3 yg. fledged**	Terr. occupied*	5 yg. fledged	Undetermine			4 yg. fledged	4 yg. fledged	Undetermined	Undetermined	Inactive	Not investigated	Not investigated	Not investigated	Not investigated	Not investigated	Not investigated	Not investigated
	<u> </u>						π	ledged												
nd Mitt.	Terr. occupied	Terr. occupied	Terr. occupied	Inactive***	Inactive	Inactive			4 ys. fledged	Ten. occupied	Nest active, pro-		4 yg. fledged	Terr. occupied	Est. 3? yg. figd	621 4 78. flgd	Terr. occupied	2 or 3 yg. figd	4 ys. fledged	Inactive
ey Mouse Wall)							fle	beged			ductivity unk.	South Tower	E. of RR tracks		E of RR	esst of RR		esst of RR	esst of RR	
πογπε) οbe	hateoitzavri toN	Not investigated	bashall av t	Inactive	Inactive	Inactive	nU	Undetermined	2 ys., Upper	2 ys., Red	Inactive	Inactive	Inactive	Inactive	Inactive	Z yg. fledged	2 yg. fledged,	2 yg. fledged	3 yg. fledged	2 or 3 yg. fledged,
Part)	חיזה איז המוקורת	nom9000 110 1011	no9no97.						Peanuts	Garden Wall						Red Carden Wall	Red Carden Wal		Red Carden Wall	Red Carden Wall
			Loimnee mel	Pointing mgT	heehelt ou (1011000 mel	<u>~</u> P	ton bread oV	At least 2 yg.	Terr. occupied	Atleast 1 ys.	Displaced by	Terr. occupied	Inactive	Terr. occupied	Terr. occupied, sus	· Inactive	3 or 4 yg. fledged	2 yg. fledged	4 yg. fledged
movins) w	Not investigated	+ yg. nedged	Terr. occupied	Terr. occupied	2 78. nedged	Terr. occupi		Yg. heard, not seen	ledged	northood tra		peregrines				pect nest failure		Jam Crack Spire	Jam Crack Spire	
	<u></u>																·····	then take the N	Auitoenl	Inactive
																		Vew site; nest Iailed	avitoanl	
	↓∔																	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Prop 10 mm	FF-0 4-03
novns	Not investigated	3 ys. fledged	5 yg. fledged	1 ys. on ground:	3 yg. fledged	Inactive	eug 🔤			Terr. occupied	At least 2 ys.	Nest active, pro-	5 yg. fledged	3 yg. fledged	3 yg. fledged	Ays. Redged	3 yg. fledged	2 or 3 yg. fledged	4 yg. lledged	5 yg. fledged
	<u>+</u>			nest not found				· · · · · · · · · · · · · · · · · · ·	by calls; nest		fledged,E.Ridge	THE ALLANDER								
	L														tT		bb C		Propend any	heebell out
noving	Not investigated	Terr. occupied	4 ys. fledsed	Incub.; failed	4 yg. fledged	4 yg. fledged		Nest used by	Inactive	Inactive	Inactive	Inactive	Inactive	I GIT. OCCUPIED	Terr. occupied, no nest, Back Porch	ren. occupied no	2 yg. nedged	A eggs, Bear Cr. 4 eggs, Bear Cr.	Bear Cr. Spire	5 yg. fledged, Bear Cr. Spire
							DI	LAVEIS										Spire		
											, , , , , , , , , , , , , , , , , , , ,		,,							hashaft out
nortis	Terr. occupied	Terr. occupied		Not investigated		Теп. оссирі	1A b	At least 3 yg. Bedged, West	At least 3 yg. fledged, West	5 yg. fledged, West site	4 yg. fledged, Queen Anne's	Nest active, pro-	by peregrines	peregrines Occupied by	peregrines	peregrines Occupied by	Deregrines Occupied by	Deregrines Occupied by	Decempied by	3 yg. fledged
			Queen Anne's		West side		28	102 41 100 2000	100 4 50 900	0170 100 11]	
itheater																		New site as of	1002	3 yg. fledged
		,	F	Lotraitheurai told	Potositasiui toN	oiteeuni toil 1	T bat	haimman maT	4 ys. fledged,	3 yg. fledged,	Inactive	Inactive	Inactive	Inactive	Not investigated	Not investigated	Not investigated	Not investigated	Not investigated	Not investigated
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															Printer ToT		Friends meT		- Friguesco mol	tintopal
півл					+										Terr. occupied	Terr. occupied	Terr. occupied	At least 2 yg. fiedged, S. side	Terr. occupied	Inactive
													· · · · · ·							
.ntM isod	Not investigated	1 ys. fledged	3 yg. fledged	Not investigated	Not investigated	undetermine		At least 2 yg.	At least 3 yg.		Briefly occupied	Inactive	Inactive	Inactive	Not investigated	Not investigated	Not mvestigated	Not investigated	Not investigated	Terr. occupied
<u>_</u>							эп	fledged	fledged	peregrines	by 1 peregrine								· · ·	(17210
Young produced																				
rom 12 territories	0	8	50	I	81	. †	-	8	22	It	9	+	6	<u> </u>	9	TOT 1	8	11-14: 12 is 15		
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l ansam baiquoco ytot Ing fledged means that	at either young were	o Sarved flying o	r they were fully fe	athered and succes	zew gnigboll lula	assumed.														
active means we saw n	no falcons during ou	our visits and assume	a territory to be u	.beiquocon									· · · · · · · · · · · · · · · · · · ·							
fluzni znesm benimtet:	ficient field work to	Yrotimet territory	status.									1		1	T	h				

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