

OBJECTIVES

Determine the size, distribution, and productivity of golden eagles nesting in Oregon.

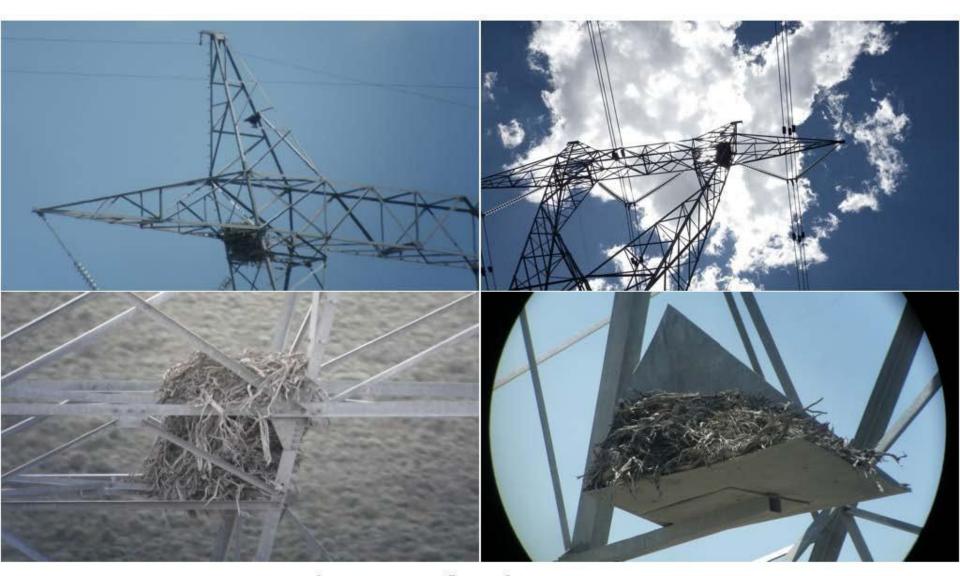






build stick nests on cliffs...





and on artificial structures.

Historical Golden Eagle data in Oregon

Sources include:

Isaacs & Opp, 1991

Isaacs & Popp, 1994,

Thompson et al 1982

Anderson 1985

Countless agency reports, project - specific surveys and inventory, anecdotal records, etc.

(Draft No. 2)

THE ECOLOGY AND ERREDING BIOLOGY OF THE GOLDEN EAGLE

IN

SOUTHWESTERN IDAHO

AHD

SOUTHEASTERN OREGON

BX

CARY L. HICKMAN

DIVISION OF WILDLIFE SERVICES

BUREAU OF SPORT FISHERIES AND WILDLIFE

UNITED STATES DEPARTMENT OF INTERIOR

1968

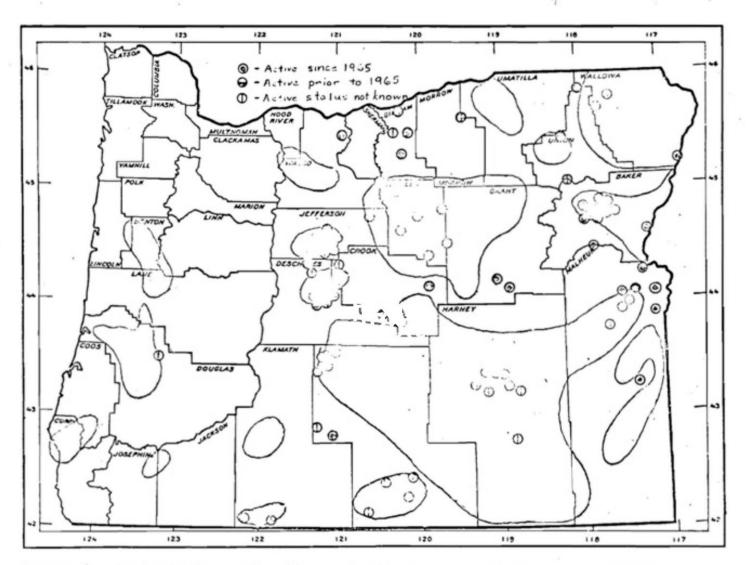
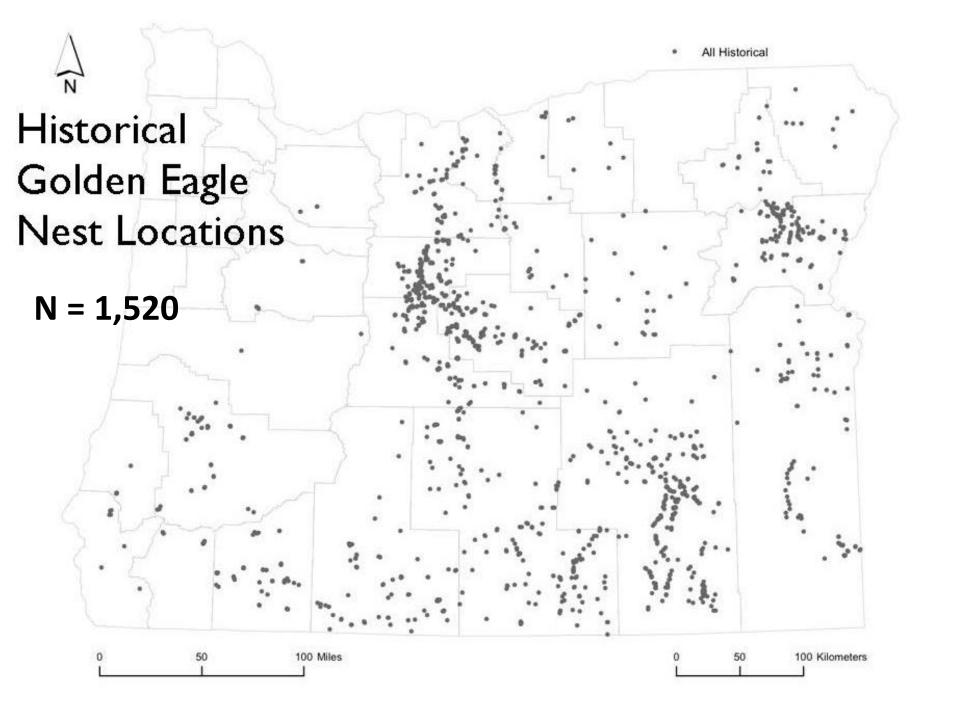
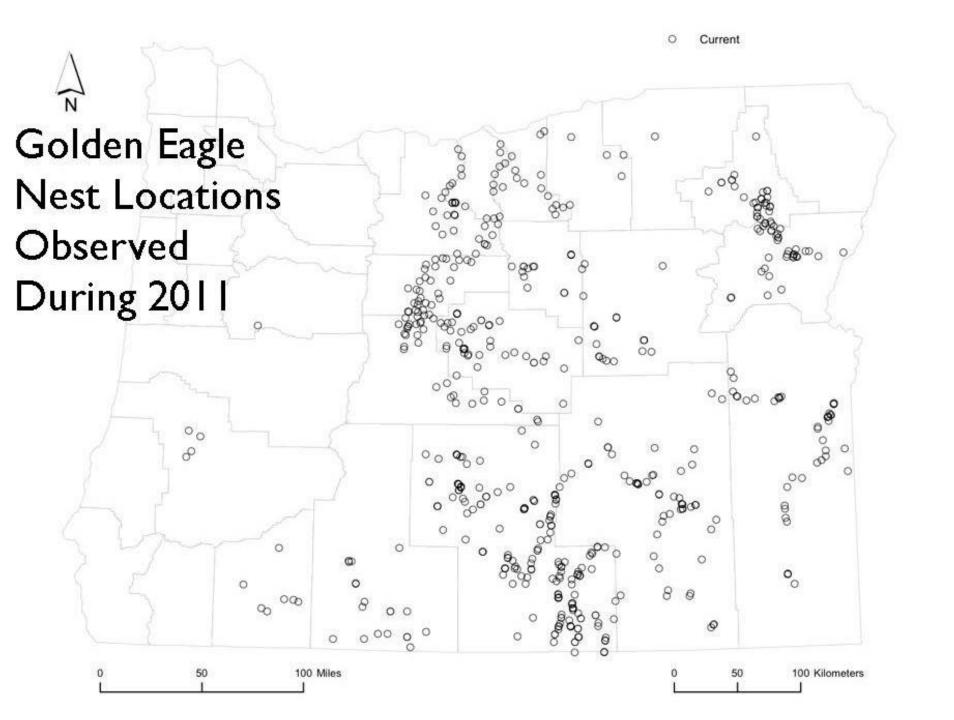
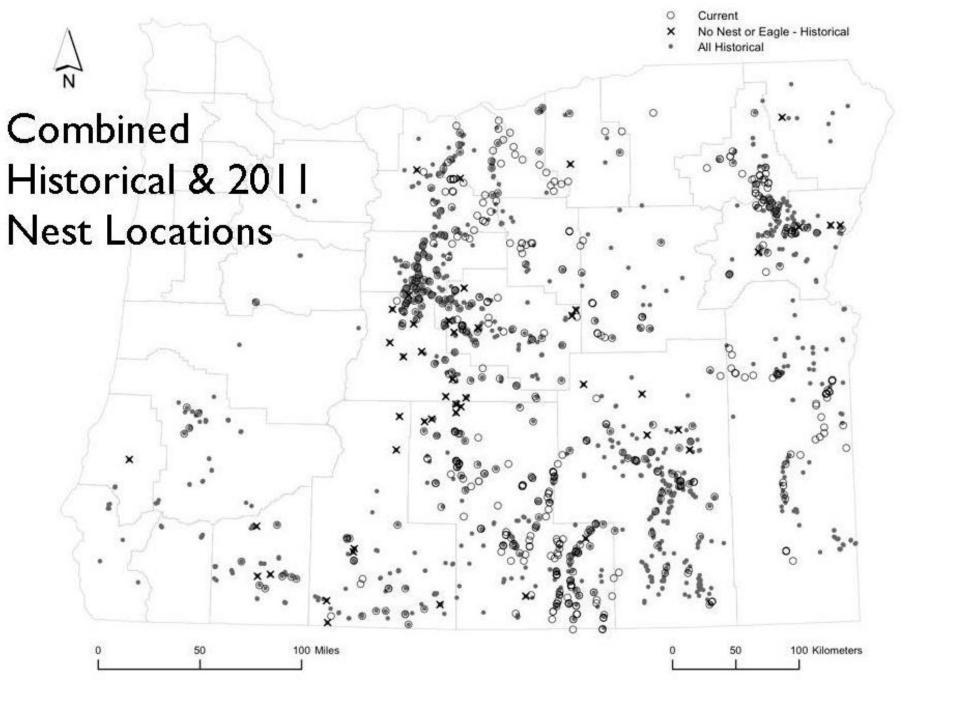


Figure 6. Golden eagle nesting sites and wintering areas in Oregon recorded from a mail survey of natural resource management agencies.









RESULTS 2011

- 2,096 nest locations reported (1,520 historical + 575 "new")
- 788 potential breeding areas (653 historical + 135 "new")
- 459 (58%) surveyed (all of the "new" & 50% of the historical)
- 280 (61%) were occupied by at least one golden eagle
- 177 (63%) were occupied with known nesting outcome
- 119 (67%) were successful

- 169 young were counted
- 0.95 young per occupied breeding area (productivity)
- 1.42 young per successful breeding area (brood size)







Table ___. Estimated value of volunteer, agency, and private contributions to golden eagle surveys in Oregon, 2011 and 2012 combined. The volunteer hourly rate was based on Hands On Network, The Value of Volunteer Time, 2011(1). The mileage rate was based on 2012 IRS Standard Mileage Rate(2). Agency and private hours and miles were not reported. Those values were estimated in proportion to the volunteer amounts based on the number of people in each category.

PRELIMINARY DATA AND RESULTS

		Time			Travel			
	Number	Hours	Unit Value		Miles	Unit Value		Total
Category	of People	(h)	(per h)	Value	(mi)	(per mi)	Value	Value
Volunteer	112	3,693	\$21.79	\$80,470	16,598	\$0.56	\$9,212	\$89,682
Agency	103	3,396	\$21.79	\$74,004	15,264	\$0.56	\$8,472	\$82,476
Private	32	1,055	\$21.79	\$22,992	4,742	\$0.56	\$2,632	\$25,624
Other	_	_	_	_	_	_	-	\$7,800
TOTAL	_	_	_	_	_	_	_	\$205,582

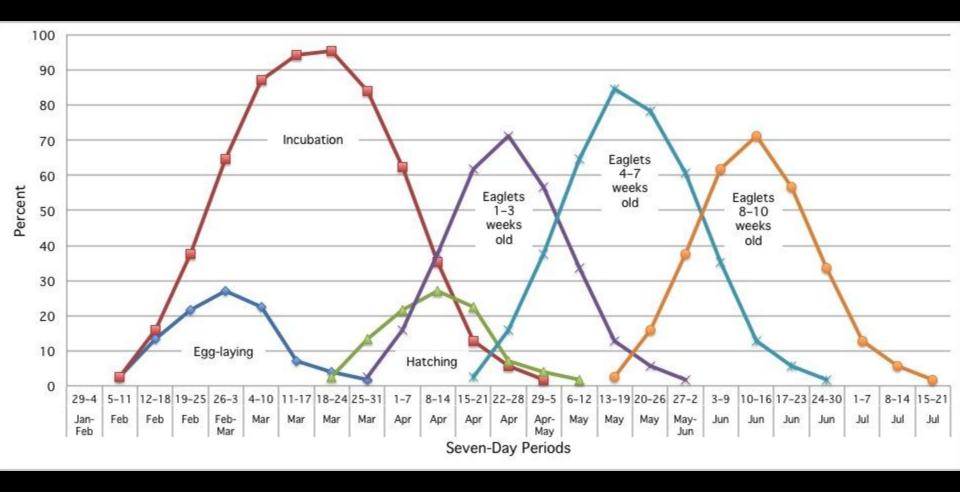
¹ http://www.handsonnetwork.org/tools/volunteercalculator

² http://www.irs.gov/uac/IRS-Announces-2012-Standard-Mileage-Rates,-Most-Rates-Are-the-Same-as-in-July

Table __. Results of golden eagle nest monitoring in Oregon during 2011 and 2012. Under project protocol, two properly-timed, four-hour observation periods were not required, breeding areas with nestlings <51 days old were considered successful nesting attempts, and nestlings <51 days old were counted.

PRELIMINARY DATA AND RESULTS			Project Protocol		USFWS Protocol	
	Category	Year		Year		
	Parameter	2011	2012	2011	2012	
	Observations					
	Total (1/site/day)	916	1386	_	-	
	Per Potential Breeding Area Surveyed	2.0	2.5	12_01	1_0	
	Potential Breeding Areas					
	Listed	901	901	901	901	
	Surveyed	459	550	O	0	
	% Surveyed	50.9	61.0	-	5-6	
	Breeding Areas					
	Occupied	251	330	202	289	
	% Occupied	54.7	60.0	- 3	-	
	Occupied Known Outcome	174	284	137	221	
	% Occupied Known Outcome	69.3	86.1	67.8	76.5	
	Evidence of Eggs Known Outcome	142	228	115	192	
	% Evidence of Eggs Known Outcome	81.6	80.3	83.9	86.9	
	Successful	123	192	96	156	
	% Successful	70.7	67.6	70.1	70.6	
	Productivity	-				
	Young	179	266	139	219	
	Young/Occupied Known Outcome	1.03	0.94	1.01	0.99	
	Young/Evidence of Eggs Known Outcome	1.26	1.17	1.21	1.14	
	Young/Successful	1.46	1.39	1.45	1.40	
	Statewide Estimates	-				
	Number of Occupied Breeding Areas	493	541		=	
	Number of Eaglets	507	506	-	3—3	





FUNDING

Bureau of Land Management
Bonneville Power Administration
U.S. Fish & Wildlife Service
Oregon Eagle Foundation
Horizon Wind Energy
Portland General Electric

Iberdrola Renewables
RES America Developments
American Wind Energy Association
E.ON Climate & Renewables NA
Firstwind
3 Private Individuals



ASSISTANCE

Renewables Northwest Project
Wind Industry Cooperators & Wildlife Consultants
Agency Cooperators
Volunteers
Jim & Sue Anderson, Natural Selection
Gary Clowers, Raven Research West

