JEFFREY A. DILLON



VERTREY A. DILLON

RECOVERY PLAN





PACIFIC BALD EAGLE

RECOVERY PLAN

Published by U.S. Fish and Wildlife Service Portland, Oregon

Approved: U.S. Fish and Wildlife Service Regional Directo 38 8 Date

THIS IS THE COMPLETED PACIFIC BALD EAGLE RECOVERY PLAN. IT HAS BEEN APPROVED BY THE U.S. FISH AND WILDLIFE SERVICE. IT DOES NOT NECESSARILY REFRESENT OFFICIAL POSITIONS OF COOPERATING AGENCIES, AND IT DOES NOT NECESSARILY REPRESENT THE VIEWS OF ALL INDIVIDUALS INVOLVED IN THE PLAN FORMULATION. THIS PLAN IS SUBJECT TO MODIFICATION AS DICTATED BY NEW FINDINGS AND CHANGES IN SPECIES STATUS AND COMPLETION OF TASKS DESCRIBED IN THE PLAN. GOALS AND OBJECTIVES WILL BE ATTAINED AND FUNDS EXPENDED CONTINGENT UPON APPROPRIATIONS, PRIORITIES, AND OTHER BUDGETARY CONSTRAINTS.

LITERATURE CITATION SHOULD READ AS FOLLOWS:

· • · · · ·

U.S. Fish and Wildlife Service, 1986. Recovery Plan for the Pacific Bald Eagle. U.S. Fish and Wildlife Service, Portland, Oregon. 160 pp.

Additional copies may be obtained from:

Fish and Wildlife Reference Service Informatics General Corporation 6011 Executive Boulevard Rockville, Maryland 20852 Telephone: 1-800-582-3421 (301) 770-3000

Pacific States Bald Eagle Recovery Team

Robert G. Anthony, Oregon Cooperative Wildlife Research Unit, Dept. of Fisheries and Wildlife, Oregon State Univ., Corvallis, Oregon.

Fredrick C. Dobler, Washington Dept. of Game, Olympia, Washington (replaced R. Knight 1/82).

Dennis L. Flath, Montana Dept. of Fish and Game, Bozeman, Montana.

Gary B. Herron, Nevada Dept. of Wildlife, Reno, Nevada.

Barbara Holder, U.S. Forest Service, Washington, D.C.

- Ronald M. Jurek, California Dept. of Fish and Game, Sacramento, California (team leader through 12/81).
- Richard L. Knight, Washington Dept. of Game, Olympia, Washington (replaced by F. Dobler 1/82).

Robert J. Oakleaf, Wyoming Dept. of Game and Fish, Lander, Wyoming.

Richard C. Norell, Idaho Dept. of Fish and Game, Boise, Idaho.

Ralph R. Opp, Oregon Dept. of Fish and Wildlife, Klamath Falls, Oregon.

Karen Steenhof, Bureau of Land Management, Boise, Idaho (team leader 12/81 through completion).

. .

The team wishes to thank the following persons who reviewed parts of the plan and made helpful suggestions; Phil Detrich and Bob Lehman deserve special thanks for their assistance on preparing the plan.

> R. Anderson, Weyerhaeuser Company A. Boss, U.S. Forest Service J. Bottorff, U.S. Fish and Wildlife Service C. Bruce, Oregon Dept. Fish and Wildlife D. Carrier, U.S. Forest Service D. Christopherson, Shoshone-Bannock Tribes B. Davidson, Idaho Fish and Game F. DeShon, Idaho Fish and Game P. Detrich, U.S. Forest Service R. Escano, U.S. Forest Service P. Fielder, Washington Public Utility District R. Frenzel, Oregon Cooperative Wildlife Research Unit R. Gale, U.S. Forest Service N. Green, U.S. Bureau of Land Management W. Halght, Oregon Dept. Fish and Wildlife P. Hanna, Idaho Fish and Game A. Harmata, Montana State University R. Howard, U.S. Fish and Wildlife Service G. Hunt, Biosystems Analysis, Inc. J. Inman, U.S. Forest Service F. Isaacs, Oregon Cooperative Wildlife Research Unit R. Jackman, Biosystems Analysis, Inc. P. Janik, U.S. Forest Service A. Jenkins, U.S. Fish and Wildlife Service k. Jones, U.S. Bureau of Land Management G. Keister, Oregon Dept. Fish and Wildlife k. Lehman, U.S. Bureau of Land Management R. McCarty, U.S. Bureau of Land Management S. McNeill, Idaho Fish and Game L. Mullen, U.S. Forest Service W. Nietro, U.S. Bureau of Land Management A. Ogden, Idaho Fish and Game R. Olendorff, U.S. Bureau of Land Management C. Phillips, U.S. Forest Service H. Roberts, U.S. Forest Service A. Sands, Bureau of Land Management B. Sharp, U.S. Fish and Wildlife Service G. Silovsky, U.S. Forest Service J. Swenson, Montana Dept. Fish, Wildlife, and Parks F. Taylor, U.S. Bureau of Land Management C. Thelander, Biosystems Analysis Inc. C. Thomas, U.S. Bureau of Land Management T. Trent, Idaho Fish and Game C. Trost, Idaho State University J. Weaver, U.S. Forest Service S. Wienever, U.S. Fish and Wildlife Service G. Will, Idaho Fish and Game

K. Woodruff, U.S. Bureau of Land Management

L. Young, U.S. Bureau of Land Management

The team also wishes to thank the 4 working teams in the recovery area for their input and support. Clerical support provided by D. Ramirez and T. Thomason was instrumental in completing the plan.

- 1

F

• •

The primary objective of the recovery process is to provide secure habitat for bald eagles within the 7-state Pacific recovery area and to increase population levels in specific geographic areas to the extent that the species can be delisted.

Delisting should occur on a regionwide basis and should be based on 4 criteria: 1) a minimum of 800 mesting pairs in the Pacific recovery area; 2) average reproductive rate of 1.0 fledged young per pair, with an average success rate per occupied site of not less than 65%; 3) attainment of breeding population goals in at least 80% of the "- management zones with nesting potential; and 4) stable or increasing wintering populations.

In the 5 states where the bald eagle is listed as endangered, reclassification from endangered to threatened could be considered if nesting populations continue to increase for the next 5 years.

2. What must be done to reach recovery?

. . .

In 1985, at least 527 pairs nested in the 7-state recovery area. Delisting, therefore, would require an increase in the number of nesting pairs of approximately 52%.

3. What specifically must be done to meet the needs of #2?

Main steps to recovery are habitat protection and management, augmentation of populations, increased law enforcement and public awareness, and continued research on eagle requirements to provide future management direction.

The key to attaining recovery goals is management of habitat important to the species' survival. Key occupied areas and potential nesting areas have been identified. Land management agencies should provide for eagle requirements in both key areas and potential nesting areas, and eagle habitat management must be a primary consideration in key occupied areas.

4. What management/maintenance needs have been identified to keep the species recovered?

Habitat occupied by bald eagles must continue to be protected and managed after eagles have attained recovery levels. Forest stands used by eagles must be managed to maintain the long-term availability of nest sites, roosts, and foraging habitat

Another critical element of post-recovery efforts will be the continued frequent monitoring of populations and productivity. Such monitoring will be the only means by which managers will be alerted to population declines.

TABLE OF CONTENTS

.

...

· .

		Page
I.	INTRODUCTION	1
	Brief Overview	. 1
	Species Abundance and Distribution	
	Nesting Distribution	
	Productivity	
	Winter Distribution	
	Movements of Bald Eagle Populations	. 9
	Bald Eagle Hatitat Characteristics	_
	Nesting Habitat	
	Winter Habitat Requirements	
	Food Habits	. 18
	Threats to Bald Eagle Populations	. 20
	Management Progress to Date	• 23
II.	RECOVERY	
	Objectives	. 27
	Stepdown Cutline	• 33
	Narrative	. 40
	Literature Cited	73
III.	IMPLEMENTATION SCHEDULE	83
IV.	APPENDIXES	
	A. Management Zone Descriptions	. 107
	E. Agencies Requested to Provide Comments	
	During Agency Review	. 159
	we all affind herefore a same same a	23

LIST OF TABLES

Table	1.	Productivity of bald eagles in the Pacific Recovery Area	2
Table	2.	Results of National Wildlife Federation Midwinter bald eagle counts in the Pacific Recovery Area	4
Table	3.	Number of existing territories and pairs, and habitat and population goals by zone	30

LIST OF FIGURES

Figure 1.	Location of	management zones in the seven-state	
	Pacific	recovery area	29

Page

• •.

PART I. INTRODUCTION

1.4

BRIEF OVERVIEW

On February 14, 1978 the bald eagle was federally listed as endangered in all of the conterminous United States except Minnesota, Wisconsin, Michigan, Oregon, and Washington, where it was classified as threatened. No critical habitat was designated at the time of listing.

This recovery plan, one of five such plans, outlines the steps meeded for recovery and maintenance of bald eagle populations in the 7-state Pacific recovery area. Other recovery plans exist for hald eagle populations in the Southeast, Southwest, Northern States, and Chesapeake Bay. Delisting/reclassification of bald eagles in the Pacific recovery area is not dependent on progress of bald eagle populations covered by these other plans. This plan was prepared by the Pacific States Bald Eagle Recovery Team, appointed by the U.S. Department of the Interior under authority of the Endangered Species Act of 1973, as amended. It concerns populations of bald eagles in Idaho, Nevada, California, Oregon, Washington, Montana, and Wyoming. The plan is based primarily on biological considerations and does not attempt to resolve socio-economic and political issues. Population and habitat goals, however, were established with the understanding that spatial and political constraints exist and will limit the extent to which populations can increase.

SPECIES ABUNDANCE AND DISTRIBUTION

The bald eagle (<u>Haliaeetus leucocephalus</u>) is the only North American representative of the fish or sea eagles (Grossman and Hamlet 1964, Brown and Amadon 1968), and is endemic to North America. Steller's (<u>H. pelagicus</u>) and the white-tailed sea eagle (<u>H. albicilla</u>), however, occur as vagrants to Bering Strait islands and the Alaska coast, and <u>H. albicilla</u> occurs in coastal southwest Greenland. The breeding range of bald eagles formerly included most of the continent, but eagles now nest mainly in Alaska, Canada, the Pacific Northwest states, the Great Lake states, Florida, and Chesapeake Bay. The winter range includes most of the breeding range but extends mainly from southern Alaska and southern Canada southward (American Ornithologists' Union 1983).

Bald eagles occur throughout the 7-state Pacific recovery area, but nesting distribution is more restricted than wintering distribution. In 1985, 527 of 635 nesting territories surveyed were occupied by breeding pairs, for an occupancy rate of 83% (Table 1). More than 25% of all wintering bald eagles in the lower 48 states occur in the Pacific recovery area. As many as 4,588 birds have been counted during recent midwinter surveys (Table 2).

Manington 3	Breeding Territories Surveyed	Number of Territories Occupied	Percent of Territories Occupied	Percent of Occupied Territories <u>Failing</u>	Young Produced	Young Per Occupied Territory	Young Per Successful Territory
1975	145	113	78	45	82	0.75	1.34
1980	138	99	72	38	88	0.87	1.40
1981 1980	153	121	79	4 9	82	0.69	1.37
1982	183	137	75	48	<u>101</u>	0.70	1.34
1983 1984	217	266	76	44	139	0.83	1.48
1985	254	207	81	35	189	0.93	1.42
	280	227	81	37	215	0.95	1.52
Mean			77	42		0.82	1.41
<u>Oregon</u> 4							
1978	54	35	65	<u>21</u>	39	1 10	
1979	97	72	74	35	3 9 72	1.18	1.50
1980	106	81	76	44	69	1.00 0.86	1.53
1981	118	97	82	34	96	1.04	1.53 1.58
1982	125	100	80	49	72	0.72	1.41
1983	131	109	83	42	92	0.87	1.48
1984	137	<u>11</u> 4	83	35	109	0.97	1.49
1985	149	132	89	_38	113	0.93	1.49
Mean			79	37		0.95	
California ⁵		• ⁴ - ⁴ - ⁴ - ⁴ - ⁴ - ⁴			_	0.95	1.50
1977	57	40	70	50	<u>.</u>		
1978	56	 45	80	50	31	0.78	1.55
1979	64	50	78	71	17	0.38	1.31
1980	70	52	76 74	50 33	34	0.68	1.36
1981	71	51	77	22	57	1.10	1.63
1982	71	48	71	26	60 49	1.20	1.54
1983	78	58	81	30	**7 59	1.17 1.05	1.54
_ <u>_</u> 984	79	65	82	33	69	1.05	1.51
1985	75	59	79	<u></u>	58	0.98	1.60
Mean			77	39	~		<u>1.61</u>
Montana ⁶						0.94	1.52
1978	9	9	100				
1979	. 16	, 16	100 100	-	11	1.22	1.83
1980	23	22	100 96	<u> </u>	18	1.29	1.80
1981	25	24	96		<u>28</u>	1.56	2.00
1982	38	37	97	21	38	1.58	2.00
1983	51	40	57 78	32	44 50	1.19	1.76
1984	64	51	80	30 ~	5 9	1.48	2.11
1985	59	51	<u>86</u>	36 	50 51	1.09	1.71
Mean		_				1.07	<u>1.47</u>
	-	······································	92	29		1.31	1.84

Table 1. Productivity of bald eagles in the Pacific Recovery Area, 1975 to 1985¹.

• •

--

.

	Breeding Territories Surveyed	Number of Territories Occupied	Percent of Territories Occupied	Percent of Occupied Territories Failing	Young Produced	Young Per Occupied Territory	Young Per Successful Territory
Wyoming ⁷							
1978	24	2 0	83	46	13	0.65	1.44
1979	26	23	- 86	46	13	0.70	1.45
1980	27	19	7 0	33	20	1.05	2.00
196 1	31	26	84	35	25 .	0.96	1.67
1982	35	<u>23</u>	66	65	12	0.55	1.50
1983	18	16	89	38	19	1.19	1_90
198 4	26	23	88	35	28 .	1.22	_ 1.8 7
19 85	44	35	<u>. 80</u>	<u>51</u>	28	0.00	1.75
Mean			81	44		0.89	1.70
Idano ⁸							-
19 79	<u>1</u> 4	<u>11</u>	79	_	10	0.91	
198 0	14	12	86		13	1.08	
1981	14	13	93	24	18	1.38	1.80
<u>1982</u>	<u>16</u>	<u>:5</u>	94	46	15	1.00	1.90
19 83	15	ಚ ಲ ೨	87	15	17	1.31	1.54
198-	22	20	95	45	21	1.05	1.91
1985	27	22	<u>81</u>	<u>32</u>	23	1.05	<u>1.53</u>
Mean			88	32		1.11	1.74
Nevade 9							
1985	1	<u>-</u>	100	10 0	0	0.00	0.00
GRAND MEAN	(VEIGED)		83	39	<u> </u>	0.93	1.53

Table 1. Productivity of bald eagles in the Pacific States Region, 1975 to 1985 (continued).

¹ In some cases, calculations of & occupancy, & failures, and young per occupied and successful territories are based on a sample of occupied sites where complete information was available.

² Indicates the minimum number of breeding pairs.

³ 1975 data from Grubb (1976) 1980-1985 from Washington State Nongame data system.

⁴ Data from Isaacs and Anthony (1985)

, T

- ⁵ Unpublished data from Jurek (Calif. Dept. of Fish and Game), and Lehman and Detrich (Bureau of Land Minagement, Sacramento)
- ⁶ Unpublished data from Montana Bald Eagle Working Group
- ⁷ Unpublished data from Greater Yellowstone Working Group: 1983 and 1984 data are incomplete because of no surveys in Yellowstone Park.
- ⁸ Unpublished data from Howard (U.S. Fish and Wildlife Service, Boise).
- ⁹ Unpublished data from Herror (Nevada Dept. of Wildlife, Reno).

Table 2

. .

Results of National Wildlife Federation Midwinter Bald Eagle Counts in the Pacific Recovery Area

	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>
California	862	758	710	787	1	1
Idaho	404	433	735	668	644	542
Montana	257	461	413	470	495	420
Nevada	42	53	92	74	114_	96
Oregon	494	653	547	480	388 ²	1
Washington	1126	1624	1611	1378	1158	1542
Wyoming	400	456	480	362	506	482
TOTALS	3585	4438	4588	4219	3305	3082

¹ Did not participate in the annual midwinter survey.

² The 1983 count in Oregon was incomplete.

Historical Distribution

6.4

The status and distribution of bald eagle populations in the decades before World War II are poorly understood. Declines probably began in some populations in the 19th century; other declines were probably not underway until the 1940's. Between 1947 and 1970, reproduction in most bald eagle populations declined drastically (Broley 1958, Sprunt et al. 1973), and the species disappeared from many parts of its breeding range. Research in the late 1950's and throughout the 1960's indicated that certain organochlorine pesticides, primarily DDE (the environmental metabolite of DDT), interfered with bald eagle productivity by causing excessive thinning of eggshells (Krantz et al. 1970, Wiemeyer et al. 1972). Direct mortality apparently resulting from lethal levels of DDT and dieldrin, another organochlorine pesticide, also contributed to losses of birds in some populations during this period (Mulhern et. al. 1970, Belisle et al. 1972, Cromartie et al. 1975, Prouty et al. 1977, Kaiser et al. 1980).

Historical records provide evidence for the decline of bald eagles in the Pacific Northwest. Accounts by Baird (1858), Evermann (1886), Merrill (1888, 1897), Belding (1890), Bendire (1892), Woodcock (1902), Hall (1933a, 1933b), and Buechner (1953) document the abundance of bald eagles in the region during the late 19th century. Later records suggest that a population decline may have occurred at the beginning of the twentieth century (Bowles 1906, Dawson and Bowles 1909, Kitchin 1939). These suspected declines are difficult to quantify, however, because no intensive surveys were conducted until the latter part of the twentieth century.

In some cases, historical records have confirmed the disappearance of breeding eagles from parts of their former range. For example, Kiff (1980) and Detrich (1982) have summarized numerous accounts of nesting bald eagles in central, southern, and coastal California where the species no longer breeds. Bald eagles formerly nested in at least 16 California counties where nesting no longer occurs, and they used a variety of habitat types and nesting substrates (Detrich 1981a). By 1950, direct persecution and habitat destruction had resulted in the extirpation of much of the southern and central nesting population. All remaining pairs disappeared from the Channel Islands and the mainland of southern California in the 1950's, apparently because of DDT contamination which resulted in reproductive failure (Detrich 1981a).

Bald eagles also formerly nested at Pyramid Lake in Nevada (Linsdale 1936), but no eagles have been found breeding at that lake in this century. At least one breeding territory on the Boise River in Idaho has been lost since the turn of the century (Anonymous 1978), and declines are also suspected in the less accessible portions of central Idaho.

Breeding populations of bald eagles in Oregon and Washington are still widely distributed, but historical information suggests significant declines and changes in distribution. At the turn of the century, 10 breeding pairs nested on Yaquina Bay in Lincoln County, Oregon (Woodcock 1902), and only one pair nests there presently. Records of at least 8

breeding sites are available for northeastern Oregon, but only 1 nesting attempt has been documented during the last 6 years (Isaacs and Anthony 1985).

Historical data from Montana are too sketchy to indicate early population numbers. Known historical territories number far fewer than those known to exist at present because of inadequate surveys prior to 1980. Five territories on the Missouri River system and 2 on the Yellowstone River system were abandoned between 1953 and 1975 (Flath, unpubl. data).

The most severe declines in Wyoming probably occurred in the late 1800's and early 1900's, before historical records were available. Homesteading along major rivers and extensive poisoning and shooting of all predators occurred during this period and undoubtedly affected eagle populations. In addition, at least 3 sites have been destroyed by development activities during the last 15 years (Oakleaf, Wyoming Department of Game and Fish, Lander, pers. comm.).

Nesting Distribution

The largest nesting population of bald eagles in the 7-state recovery area is in Washington. Most nesting habitat in Washington is located in the San Juan Islands and on the Olympic Peninsula coastline (Grubb 1976). Fewer nesting territories are found along Hood Canal, on the Kitsap Peninsula, in Island County, and in southwestern Washington. Of 290 nesting territories identified in Washington, 161 are in the Puget Sound area, including the San Juan Islands; 68 are on the Washington coastline; 10 are on the Columbia River; 10 occur in the Cascade Mountains; 8 occur on the Olympic Peninsula; and the remainder are in the eastern part of the state. Of the 280 territories surveyed in 1985, 227 were occupied (Table 1). The high percentage of nest territories on private lands represents a potential threat to eagles in Washington, since private land owners are not legally mandated to manage and protect bald eagle habitat.

Oregon has the second highest population of nesting bald eagles in the recovery area. Breeding pairs occupied 132 of the 149 traditional nesting territories surveyed in 1985 (Table 1). Approximately 60% of eagle pairs in Oregon nest on public land. The Klamath Basin contains the highest concentration in Oregon (60 pairs), but significant numbers (24 pairs) nest near high Cascade lakes. The Oregon coastline and lower Columbia River Basin have most of the remaining pairs in the state (Isaacs et al. 1983).

Of 75 traditional nesting territories surveyed in California in 1985, 59 were occupied (Table 1). Occupied territories are located in 10 northern counties, with almost 45% occurring in Shasta County alone. Most California nests are in publicly owned mixed coniferous forests adjacent to reservoirs. Seventy percent of nests surveyed in 1979 were associated with reservoirs (Lehman 1979).

Montana contains at least 65 bald eagle nesting territories. The majority of the territories occupied in 1985 occurred in western Montana.

Over 50% of the nest stands in Montana are publicly owned, and most of these are on federal lands (Wright and Escano 1986).

Forty-four nest territories have been documented in Myoming; 35 of these were occupied in 1985 (Table 1). Most of the known nesting territories are in the northwestern part of the state. Yellowstone National Park has 15 documented nesting territories, 6 occur in Grand Teton National Park, and 11 are located near the parks in Teton and Lincoln Counties. Other nesting pairs occur in widely scattered areas of the state, including the Bighorn River and Tongue Rivers in northern Wyoming and the North Platte River in southern Wyoming. An additional pair nests just mouth of the Wyoming state line along the Little Snake River in Colorado.

The majority of the 27 known bald eagle nest territories in Idaho are in the eastern part of the state, primarily along the Henry's Fork and South Fork of the Snake River. Other pairs nest near reservoirs in western and northern Idaho (Howard and Van Daele 1980). Twenty-two territories were occupied in 1985 (Table 1).

Prior to 1985, the last documented nesting activity in Nevada was in 1866 at Pyramid Lake (Linsdale 1936). During 1985 a nesting attempt occurred on BLM land along Salmon Falls Creek in Elko County. Although the pair was unsuccessful, the site presently offers the best potential for nesting in the state.

Productivity

1

7 1

Available statistics on eagle productivity in the 7-state recovery area are difficult to compare because survey procedures and terminology have varied among years and among states. Assembled data (Table 1) show considerable variation among states. In general, productivity for the 7-state Pacific recovery area has been comparable with that in Alaska and the Great Lake States (Sprunt et al. 1973, Leach 1982) where populations have apparently been stable during the last 10 years.

Average productivity in the recovery area for all years surveyed and all states is approximately 0.93 young per occupied territory. Productivity in a single year and state has ranged from 0.38 to 1.58 young per occupied territory. Nesting failure rates (percent of occupied territories failing) have averaged 39% and have ranged from 15 to 71% per year for individual states (Table 1).

Winter Distribution

During the winter, eagles in the Pacific recovery area are primarily associated with open water. Recent midwinter counts (Table 2) indicate that all states except Nevada regularly have more than 400 wintering birds. Washington consistently has the most wintering eagles in the recovery area with 1126 to 1624 individuals counted in recent years (Knight et al. 1979, 1980s, 1981; Dobler and Dobler 1982; Dobler 1983; McAllister 1984). Most eagles wintering in Washington are found along the Skagit, Nooksack, and Sauk River systems, in the Puget Trough, on the Olympic Peninsula, and in the Columbia Basin. In Oregon, most wintering eagles are found in the Klamath and Harney Basins and on the Snake and Columbia Rivers. Approximately 600 eagles regularly winter within the Lower Klamath Basin in Oregon and California. This population includes both resident and migrant eagles. The Klamath population is very dynamic in that considerable exchange and shifting occurs among communal night roosts (Keister 1981).

Nearly half of California's wintering bald eagle population occurs in the Klamath Basin (Detrich 1981b, 1982). Smaller concentrations are found at most of the large lakes and man-made reservoirs in the mountainous interior of the north half of the state and at scattered reservoirs in central and southwestern California. Some of the state's breeding birds winter near their nesting territories.

In Idaho, wintering bald eagles occur near open water throughout the state. The largest concentrations are in northern Idaho at Coeur D'Alene and Pend Oreille Lakes, in eastern Idaho along the Henry's and South Forks of the Snake River, and at American Falls Reservoir. As many as 40 eagles have been counted during the winter at Lake Lowell in southwestern Idaho. Several communal night roosts have been identified in eastern Idaho along reservoirs and in mountain valleys.

In Montana, wintering bald eagles are widely scattered, and occur in association with major rivers, lakes, and reservoirs. Areas of highest densities include Flathead Lake, the Yellowstone River, and the upper Missouri River. A significant fall concentration occurs at McDonald Creek in Glacier National Park, and large numbers of eagles apparently follow spring migration routes along the Yellowstone and Shields Rivers.

Wintering eagles in Wyoming are distributed throughout the state. A major wintering concentration is associated with the North Platte River within a 97-km (60-mi) radius of Casper. Other important wintering concentrations occur annually near Woodruff Narrows (north of Evanston) and along the Green, Snake, and Bighorn Rivers.

In Nevada, bald eagles occur in small groups at isolated water bodies throughout the state. Several eagles winter in the north end of Antelope Valley (west of the Goshute Mountains) in northeastern Nevada. This valley has very little water, and jack rabbits (<u>Lepus</u> spp.) are the eagles' main prey. Approximately 60% of the state's wintering eagles occur in western Nevada, 35% are observed in eastern Nevada, and 5% occur in the southern end of the state.

MOVEMENTS OF BALD FAGLE POPULATIONS

3.5

Until recently, little was known about the the migration patterns of bald eagles in the western states. Recent studies indicate that the Pacific recovery area contains important migration and wintering habitat for a large part of the continental breeding population. Many of the nesting eagles from the Pacific recovery area remain in the region throughout the year.

Radio-tracking studies of eagles captured in Glacier National Park, Montana, indicate that some of the bald eagles that winter in Montana, Wyoming, Idaho, Oregon, Nevada, and California come from breeding populations in northeastern Alberta and the MacKenzie District, Northwest Territories, Canada (Young 1983). These birds pass through Alberta and stop at Glacier National Park in autumn to feed on spawning kokanes salmon (<u>Oncorhynchus nerka kennerlyi</u>). From Glacier, they follow 2 general routes. Most move south to eastern Idaho where many associate with waterfowl concentrations at American Falls Reservoir on the Snake River. Some of the eagles remain in this region most of the winter while others move south into Utah or southeast into southwestern Wyoming and western Colorado. Other Glacier eagles follow, roughly, the Salmon and Payette River drainages from western Montana to western Idaho. From here, they move to the Snake River, the Harney and Klamath Basins, and valleys in western Nevada (Young 1983).

A small part of the Glacier National Park autumn concentration consists of eagles that nest and winter further east. An eagle marked in southern Colorado during its first winter has been seen during 5 consecutive autumns at Glacier, and a bird banded at Glacier was later re-trapped near a nesting area at Besnard Lake, Saskatchewan (Harmata 1984).

Banding, colormarking, and telemetry studies have also identified important migration corridors in eastern Montana and Wyoming. Of 7 sightings of wing-marked adult bald eagles banded in southern Colorado in winter and seen outside of Colorado in spring, 5 have been reported from Wyoming and Montana. Telemetry studies indicate an almost direct north-south movement of eagles between breeding areas in central and northeastern Saskatchewan and wintering areas in southern Colorado (Harmats 1984). Of 7 adult eagles tracked during spring migration from their wintering area in the San Luis Valley, Colorado, 6 and probably 7 passed through Wyoming and Montana. Four of these 7 eagles were subsequently found summering in northeastern Saskatchewan. Autumn recoveries of 2 dead adults in west central Saskatchewan suggest that they follow similar migration routes in autumn and spring (Harmata 1984).

The routes taken by radioed eagles through eastern Wyoming and incidental sightings of other adults fall along a relatively narrow migration corridor through Wyoming. Physiographic features seem to direct birds along the east front of the Medicine Bow Range west of Laramie. Then, the birds move into the Casper vicinity, east of Midwest, and through the Powder River Basin to the Yellowstone River, Montana. A major "staging" area occurs between the mouth of the Bighorn River and Miles

City on the Yellowstone River. Fort Peck Reservoir (in eastern Montana) is used as another major staging area. A potentially important migration route appears to exist in the Shields River Valley in southcentral Montana in spring; up to 70 eagles have been observed moving through this valley in a 2-hour period.

Radio-tracking studies of eagles wintering in western Washington indicate that the Washington wintering population consists of both resident and migrant eagles (Hunt and Johnson 1981). Two adult eagles that wintered on the Skagit River summered in the nearby San Juan Islands. However, some eagles moved north in the spring: 2 marked subadult eagles were found at the head of Knight Inlet in British Columbia, and another subadult was observed in southeast Alaska. In January 1982, a subadult eagle marked in Alaska was found washed ashore north of Gray's Harbor on the Washington Coast. Telemetry studies also indicate that the Washington wintering areas are an intermediate stop for some migrant eagles (Hunt, Biosystems Analysis Inc, Santa Cruz, California, pers. comm.). An adult eagle marked on the Skagit moved to the Klamath Basin and then returned to the Skagit later in the same winter. The movements of several rehabilitated eagles also suggest that birds wintering on the Skagit River may come from nesting areas in interior British Columbia and coastal areas in Puget Sound and the Strait of Georgia (Servheen and English 1979).

In northern California, many pairs seem to be year-round residents (Detrich, Bureau of Land Management, Ukiah, California, pers. comm.). Studies conducted in the Klamath Basin of southern Oregon have shown that many breeding pairs do not leave their territories during fall and winter (Frenzel and Anthony, Oregon State University, Corvallis, pers. comms.). There is both northward and southward dispersal of juveniles raised in northern California and southern Oregon. In 1979, a rehabilitated juvenile bald eagle from Shasta Lake, California, moved to Tillamook, Oregon. Juveniles from Klamath County, Oregon, have moved to British Columbia, northern California, and Sonora, Mexico, during winter months (Frenzel and Anthony, Oregon State University, Corvallis, pers. comms.).

Swenson (Montana Department of Fish and Game, Livingston, pers. comm.) believes that breeding adults from the Greater Yellowstone region probably winter within the region, although it is likely that birds that breed at high elevations winter at lower elevations. Winter distribution of adults along the lower Snake River in Wyoming indicates that nesting pairs there are year round residents, and isolated pairs in other parts of Wyoming also appear to winter in the vicinity of nesting territories.

Seasonal movements of juveniles and subadults from the Yellowstone region appear to be more long-range. Recoveries and sightings of color-banded juvenile and subadult bald eagles banded in the Greater Yellowstone region of Idaho, Wyoming, and Montana indicate a general west-southwest movement to the Pacific coast during the fall (Harmata, Montana State University, Bozeman, pers. comm.). A juvenile banded as a nestling along the Snake River in Grand Teton National Park was recovered the following October on the Owyhee River in southeastern Oregon. Color-banded eagles from the Greater Yellowstone area have been seen in northern California at the Crescent City dump. During early spring and mid-summer subadult eagles reared in the Greater Yellowstone area have been sighted in the Yellowstone region. Eagles from nesting sites in eastern Wyoming seem to follow different migration routes. A bird banded as a nestling near Saratoga, Wyoming was found dead in winter on the Gila River in New Mexico (Jenkins, Sutton Avian Research Center, Bartlesville, Oklahoma, pers. comm.).

.

. /

In summary, most eagles that breed in the Pacific recovery area probably winter in the vicinity of their nests. Some move relatively short distances to lower elevations or inland food sources. Dispersal of juvenile eagles from mests in the Pacific recovery area differs from movements of adults and is much less well defined. Juvenile eagles wander substantially in a variety of directions. Many of the eagles that winter in the Pacific recovery area have migrated from breeding grounds in northwest interior Canada. Others have come from constal regions of British Columbia and southeast Alaska.

-

· ·

Nesting Habitat

. r. 1

Bald eagle nests in the Pacific recovery area are usually located in uneven-aged (Bulti-storied) stands with old-growth components (Anthony et al. 1982) and are near water bodies which support an adequate food supply. Most nests in Oregon, Washington, and California are located in predominantly conferous stands. Factors such as relative tree height, diameter, species, form, position on the surrounding topography, distance from water, and distance from disturbance also appear to influence nest site selection (Grubb 1976, Lehman et al. 1980, Anthony and Isaacs 1981).

Bald eagles usually nest in the same territories each year and often use the same nests repeatedly. When a nest is re-used, eagles repair it and add new materials. Consequently, nests may become very large. Nests in the Pacific recovery area are typically 0.6 to 0.9 m (2-3 ft) deep and 1.5 m (5 ft) in diameter (Grubb 1976, Anderson and Bruce 1980, Lehman et al. 1980). Nest trees usually have stout upper branches to support the large structures, and flight windows that accommodate the birds' large wingspan are often present. Tree species does not seem to be as important as tree size, branch form, and location, although certain tree species meet nesting requirements to a larger degree than others (Anthony et al. 1982).

The tree selected for nesting is characteristically one of the largest in the stand or is at least co-dominant with the overstory. Nest trees usually provide an unobstructed view of an associated water body and are often in prominent locations on the topography. Live, mature trees with deformed tops are occasionally selected for nesting. Live canopies usually cover the nest to varying degrees. Nests are typically within the top 6 m (20 feet) of the tree. Forbis et al. (1977) illustrate typical nest placement in ponderosa pines (Pinus ponderosa) in California.

Size of nest tree depends on tree species, forest type, and geographic area (Anthony et al. 1982). Mean height of nest trees in the Douglas-fir (<u>Psuedotsuga menziesii</u>) zone of western Oregon is 58 m (191 ft), but nest tree height in western Washington averages 35 m (116 ft) (Anthony et al. 1982). Nest trees in Wyoming are considerably smaller (Alt 1980), with heights averaging only 27 m (89 ft) and diameters averaging 0.7 m (28 in). Mean diameter of nest trees in Washington and western Oregon is approximately 1.8 m (70 in) at breast height. Mean diameter values for nest trees in California and in Oregon east of the Cascades are between 1.0 and 1.2 m (41 to 46 in) at breast height (Lehman et al. 1980, Anthony et al. 1982). Heights and diameters of nest trees are typically larger than minimum specifications set for old growth by the U.S. Forest Service (Anthony et al. 1982).

Nest tree species vary by region. In Idaho, large cottonwoods (<u>Populus</u> spp.), ponderosa pines, and <u>Douglas-fir</u> are used. In Washington, 70% of the known nests are in Douglas-fir, with Sitka spruce (<u>Picea</u> sitchensis) being the next most frequently utilized species (Grubb 1976). Along the coast and lower Columbia River in Oregon, more than 70% of the

nests are in Douglas-fir, but approximately 80% of the nests in the Cascade Mountains and Klamath River Basin are in ponderosa pine, with Douglas-fir utilized as a secondary species (Anthony et al. 1982). In California, 74% of inventoried nests occur in ponderosa pine, with sugar pine (Pinus lambertians) comprising 14% of the nest trees (Lehman 1979). In western Wyoming eagles nest in a variety of trees (Alt 1980), with 44% of the nests in lodgepole pine (Pinus contorta), 23% in blue and Engelmann spruce (Pices pungens, P. engelmannii), 16% in Douglas-fir, 7% in narrowleaf cottonwoods (Populus angustifolia), and 2% in limber pine (Pinus flexilus). Montana nests occur primarily in ponderosa pine and occasionally in Douglas-fir.

Cliffs were formerly used for nesting on the California coast (Detrich 1982), and historical records indicate bald eagle nesting activity in Nevada occurred on a rocky island near Pyramid lake (Linsdale 1936). In 1985, a pair in Nevada became the first to nest on a cliff within the 7-state recovery area in more than 25 years.

In 1984, a pair of bald eagles nested on a power line structure in Montana (Flath, Montana Department of Fish and Game, Bozeman, pers. comm.). Artificial nests and nest structures may be useful in the management of bald eagles in some areas (Dunstan and Borth 1970; Nelson 1978; Postupalsky 1978b, 1979; Conrad 1979; Grubb 1980b; Bertram 1981; Hawks 1982; Lehman 1983). For example, artificial nest structures may be useful to replace or support structurally inadequate or collapsed nests, especially when nest trees have been damaged, or when alternate nest trees are unavailable. In one case, bald eagles nested in previously unoccupied habitat because of the presence of an artificial nest structure (Bohm 1977). The use of artificial nests and nest structures, however, should be limited to unusual and special cases, and should not be considered as an alternative to effective habitat management and protection.

Distances of nests from water averaged 86 m (282 ft) in western Washington (Grubb 1976), and 484 m (1584 ft) in California (Lehman et al. 1980). In Oregon, distances of nests to water bodies are variable, but the majority of nests are located within 805 m (0.5 mi) of the shoreline. Mean distances of Oregon nests from water vary from 430 m (470 yds) in the Cascade Mountains, to 1130 m (1236 yds) in the Klamath Basin, to 1260 m (1378 yds) in the Columbia River Basin and coastal regions (Anthony and Isaacs 1981). In Wyoming, 83% of the nests are within 200 m of water; the range is 5 m to 1.5 km (Alt 1980).

Bald eagles often construct alternate nests within a territory and vary use between them from year to year. Up to 5 alternate nests may be constructed within a single territory. In western Washington, 38% of the nesting territories contained alternate nests (Grubb 1980a). These nests were an average of 320 m (1050 ft) from the occupied nest. Oregon nesting territories average 1.6 nests per territory with 51% of the territories having alternate nests (Anthony and Isaacs 1981). In California 56% of territories have alternate nests (Lehman 1983). Unused nests may be alternate nests and are important components of the territory. The reason for multiple nest construction is not fully understood. Alternate nests may facilitate successful reproduction if the primary nest is blown from the tree or otherwise destroyed; the time and energy required to build a new nest might preclude nesting in the same season (Newton 1979). Alternate nests may also serve as visual territory markers (Newton 1979).

Snags, trees with exposed lateral limbs, or with dead tops are often present in mesting territories and are used for perching or as access points to and from the mest. Such trees also provide vantage points from which territories can be guarded and defended.

Forests with suitable nest and perch trees are critical to bald eagle populations. Perpetuation of timber stands both within occupied and unoccupied habitats will be necessary to maintain current populations and to reach recovery goals. Potential conflicts between timber management and bald eagle habitat management efforts exist, but such activities may be compatible in appropriate multiple-use frameworks (Lehman et al. 1980, Goold 1981). In some cases, timber stand manipulation by carefully designed harvest or prescribed burning may be required to maintain preferred nest and perch tree species. For example, the understories in about 60% of the timber stands inventoried in California were poorly stocked with ponderosa pine, the species in which bald eagles usually nest (Lehman 1979).

Distribution and spacing of bald eagle nesting pairs is thought to be a function of interspecific territoriality and the capability of the foraging habitat to support nesting pairs of eagles. In southcentral Oregon, Frenzel (1983) found that mean distance between nesting territories was 3.2 km with a range of 0.93 to 10.6 km. Grubb (1980a) found the average territory radius in western Washington to be 2.6 km (1.6 mi). In the area of highest nesting density in California (Lake Britton, Shasta County), distances between concurrently occupied nesting territories averaged 2.4 km (1.5 mi) and ranged from 1.8 km (1.1 mi) to 3.7 km (2.3 mi) (Detrich 1980). A better understanding of territoriality and spacing among nesting territories is important to provide and plan for potential habitat to meet recovery objectives. For example, recent analyses have revealed depressed nesting success when occupied nests are less than 3.2 km apart (Anthony, Oregon Cooperative Wildlife Research Unit, Corvallis, pers. comm.).

Bald eagles are particularly intolerant of human disturbance during the breeding season. Human activities have caused abandonment of nests and have resulted in reproductive failures (Detrich 1980, Bogener 1980, Lehman 1983). In some cases, eagles may have relocated their nests to avoid excessive disturbance (Thelander 1973, Anthony and Isaacs 1981). Eagle tolerance of human activity varies between individuals. In general, adult eagles are more sensitive to disturbance during courtship, egg-laying and incubation, and their sensitivity decreases as young develop (Mathisen 1968, Fraser 1981). Anthony and Isaacs (1981) found nesting productivity in Oregon to be inversely correlated with past years' logging activity and road use. Productive nests in Washington are further from permanent human activity than are unproductive sites (Grubb 1980a).

Winter Habitat Requirements

. . .

Wintering eagles in the Pacific recovery area perch on a variety of substrates; proximity to a food source is probably the most important

factor influencing perch selection by bald eagles (Steenhof et al. 1980). Favored perch trees are invariably located near feeding areas, and eagles consistently use preferred branches (Stalmaster 1976). Most tree perches selected by eagles provide a good view of the surrounding area (Servheen 1975, Stalmaster 1976), and eagles tend to use the highest perch sites available (Stalmaster 1976).

Eagles use a variety of tree species as perch sites, depending on stand structures. forest types and The structural regional characteristics of some species make them especially suitable as eagle perches. On the Nooksack River in Washington eagles use bigleaf maple (Acer macrophyllum) because of its large size and growth form. Sitka spruce is often used by eagles because of its proximity to water and its height. Other conffers in this area are avoided by eagles presumably because the foliage obscures vision. Red alder (Alnus rubra) is utilized statistically less than expected because of its relatively low height, while eagles use black cottonwood (Populus trichocarpa) more than expected because of its relative tallness (Stalmaster 1976). Dead trees are used by eagles in some areas because they provide unobstructed views and are often taller than surrounding vegetation (Stalmaster 1976).

Artificial perches may be important to wintering bald eagles in situations where natural perches are lacking. Along the Columbia River in Washington, where perch trees are not available, eagles regularly use artificial perches, including both crossarm perches and a tripod perch (Fielder, Washington Public Utility District, Wenatchee, pers. comm.). These perches may have made previously unsuitable foraging areas available to eagles (Knight, University of Wisconsin, Madison, pers. comm.). Elsewhere, however, artificial perches have been less successful. A tripod perch, designed as a substitute for cottonwoods, was constructed near an eagle feeding area on the bank of Lake Ewana (Klamath River) in Oregon. Although eagles aid not use the perch during the first winter, as many as seven utilized it the second year. The number of eagles using the artificial perch, however, has been lower than the number using the original cottonwoods. Eagles have since shifted use to smaller trees and snags near the artificial perch (Opp, Oregon Department of Fish and Wildlife, Klamath Falls, pers. comm.).

Habitat requirements for communal night roosting are different from those for diurnal perching. Communal roosts are invariably near a rich food resource (i.e., runs of anadromous fish, high concentrations of waterfowl) and in forest stands that are uneven-aged and have at least a remnant of the old-growth forest component (Anthony et al. 1982). Close proximity to a feeding area is not the only requirement for night roosting sites, as there are minimum requirements for forest stand structure. For example, Keister and Anthony (1983) found that bald eagles used old-growth forest stands as far as 15 km from the food source in the Klamath Basin even though closer stands of juniper and young ponderosa pine were available. Some resident California pairs roost near their nests during the fall and winter, but others roost in groves 1-3 km (1-2 mi) from their nests (Detrich, Bureau of Land Management, Ukiah, California, pers. comm.). In open areas, bald eagles also use cottonwoods and willows for night roosting (Isaacs and Anthony 1983).

Most communal winter roosts used by bald eagles throughout the recovery area offer considerably more protection from the weather than diurnal habitat. Roosts in western Washington provide protection from chilling weather both because they are sheltered by landforms and because their coniferous foliage insulates eagles from wind and rain (Stalmaster 1976, Hansen 1977). Roosts in the Klamath Basin offer protection from inclement weather because they consist of dense, old-growth timber in bowl-shaped depressions (Krauss 1977, Keister 1981). One roost in the Klamath Basin, however, is located in old-growth timber near the top of a mountain. Keister (1981) and Stalmaster (1981) demonstrated that communal roosts have more favorable microclimates for eagles than surrounding areas and thereby facilitate energy conservation.

. 1

Roost tree species and stand characteristics vary considerably throughout the recovery area (Anthony et al. 1982). Eagles in northern Idaho roost in western white pine (Pinus monticola) and western larch (Larix occidentalis) (Lint 1975), and Klamath Basin eagles roost in ponderose pine and Douglas-fir (Krauss 1977, Keister 1981). In eastern Washington, eagles utilize mixed stands of Douglas-fir and ponderose pine as well as stands of black locusts (Robinia psuedoacacia) and black cottonwood (Knight, Washington Department of Game, unpubl. data). In Newada, eagles roost in limber pine and narrowleaf cottonwoods (Page and Miller 1981). Eagles prefer older trees that have an open branching pattern in the top half of the tree and usually use the largest trees in the roost (Keister 1981, Anthony et al. 1982). Snags and spike-top trees are frequently used at roosts in Klamath Basin and eastern Idaho.

Isolation is an important feature of bald eagle wintering habitat. In the Klamath Basin all four major communal roosts are in remote areas (Keister 1981). On the Nooksack and Skagit Rivers, eagles consistently use the bank of the river with the least human activity (Servheen 1975, Stalmaster 1976). Excessive human activity may be the reason that some suitable wintering habitats are not used by eagles (Detrich 1978, Fitzner and Hanson 1979).

In Washington, 98% of wintering bald eagles tolerated human activities at a distance of 300 m (328 yds) (Stalmaster and Newman 1978). However, only 50% of eagles tolerated disturbances at distances of 150 m (164 yds). Skagen (1980) found that eagles flushed at shorter distances and returned more quickly to perches when food was scarce than when food was abundant.

Automobile traffic seems to be one of the least disturbing human activities in wintering habitat; eagles apparently become conditioned to vehicles on and near roads (Stalmaster 1976). Airplanes flying at altitudes of 30 to 90 m (100-300 ft) above wintering sites rarely disturb eagles (Krauss 1977), but motorboats, drift boats and fishermen on the shore and ice can disrupt eagle activity patterns (Stalmaster 1976). On some wintering areas, pedestrians are more disturbing than cars but less disturbing than boats. A screening of heavy vegetation may reduce the disturbing effect of foot traffic, because eagles are more readily flushed by hikers who are clearly visible (Stalmaster 1976). Minor auditory disturbances without associated visual cues do not appear to disrupt the activity of wintering eagles.

Food Habits

Adequate forage sources are perhaps the most critical components of bald eagle breeding and wintering habitat. Fish, waterfowl, jack rabbits, and various types of carrion comprise the most common food sources for eagles in the Pacific recovery area. The presence of a food source does not always ensure its attractiveness to bald eagles; eagles often depend on prey that are dead, dying, or otherwise vulnerable. As a result, considerable local and seasonal variation occurs in the diet.

. .

Anadromous fisheries are important to eagles in the fall and winter, especially on the Nooksack and Skagit Rivers in Washington. Wide, braided river stretches with numerous gravel bars which retain spawned salmon carcasses provide ideal foraging habitat (Stalmaster 1976). Gravel bars with heavy foliage are not as attractive to eagles even when salmon carcasses are present (Servheen 1975, Stalmaster 1976). Salmon which are reared and which spawn in hatcheries are usually not available to eagles, because the carcasses are disposed of or are used by humans. Commercial over fishing of anadromous runs may represent a future threat to bald eagles wintering in the Pacific recovery area.

Wintering eagles also rely extensively on non-anadromous fish throughout the 7-state recovery area, and the relative importance of fish species varies among water bodies. Land-locked kokanee salmon are especially important in Oregon, California, Idaho, and Montana. Other species utilized include whitefish (Prosopium sp.), squawfish (Ptychocheilus sp.), carp (Cyprinus carpio), suckers (Catostomus sp.), tui chub (Gila bicolor), and trout (Salmo sp.).

Coots (Fulica americana), mallards (Anas platyrhynchos), and chukars (Alectoris chukar) are the most important food items for eagles wintering at reservoirs on the Columbia River (Fielder 1982). In the Klamath Basin, wintering eagles feed on crippled waterfowl and waterfowl weakened or killed by fowl cholera and lead poisoning (Keister 1981). Birds comprise over 82% of the prey taken by eagles on Upper Klamath Lake from October through February, and only 20% of the avian prey are scavenged (Frenzel 1984). Gulls (Larus spp.) and coots are important at reservoirs throughout California.

Mammalian carrion is an important alternate winter food source for bald eagles in Washington (Servheen 1975, Stalmaster 1976), Montana (Flath, Montana Department of Fish and Game, Bozeman, pers. comm.), central Oregon (Opp, Oregon Department of Fish and Wildlife, Klamath Falls, pers. comm.), and parts of California (Detrich 1978). Eagles feed extensively on voles (<u>Microtus montanus</u>) displaced by spring flooding of fields in the Klamath Basin (Opp 1980, Keister 1981). Snowshoe hare (<u>Lepus americanus</u>) and scavenged deer may be important to eagles in Oregon's Cascade Lakes during winter (Frenzel 1984).

Eagles nesting in southcentral Oregon have a diverse diet that includes 16 species of fish, 36 species of birds, 15 species of mammals, and 2 invertebrate species (Frenzel 1984). Fish comprise 62% of the diet during the breeding season, and mammals comprise less than 10% of the total prey items. Trout and whitefish are the principal fish species

taken by eagles nesting on the Cascade Lakes; chubs, suckers, centrarchids, and bullheads (<u>Ictalurus</u> spp.) are more important in the Klamath Basin. Grebes, ducks, and coots are the principal avian prey of eagles nesting in southcentral Oregon. On some southcentral Oregon reservoirs, eagles obtain up to 28% of their prey by pirating, but most breeding adult eagles are efficient hunters of live prey (Frenzel 1984).

In Idaho, eagles use big game carrion from nearby winter zanges, along with waterfowl and jack rabbits in the early part of the nesting senson. By late spring, a fish diet predominates (Jones, Bureau of Land Management, Idaho Falls, Idaho, pers. comm.).

At many California reservoirs, warm water and nongame fish species are the most important items in the diet of breeding bald eagles. Prey collected at California nests has included bass (<u>Micropterus</u> spp.), crappie (<u>Pomoris</u> spp.), catfish (<u>Ictalurus</u> spp.), sucker (<u>Catostomus</u> spp.), carp (<u>Cyprinus</u> carpio), trout, hardhead (<u>Mylopharodom</u> <u>conocephalus</u>), Sacramento squawfish (<u>Ptychocheilus</u> grandis), western grebe (<u>Aechmophorus</u> occidentalis), pied-billed grebe (<u>Podilymbus</u> podiceps), white-fronted goose (<u>Anser</u> albifrons), snow goose (<u>Chen</u> caerulescens), mallard, American wigeon (<u>Anas</u> americana), gadwall (<u>Anas</u> strepera), Green-winged teal (<u>Anas</u> crecca), showeler (<u>Anas</u> clypeats), ring-necked pheasant (<u>Phasianus</u> colchicus), common crow (<u>Corvus</u> brachyrhynchos), muskrat (<u>Ondatra zibethica</u>), jack rabbit (<u>Lepus</u> spp.), and ground squirrel (<u>Spermophilus</u> spp.) (Detrich, Bureau of Land Management, Ukiah, California, and Jackman, Biosystems Analysis Inc., Santa Cruz, pers.

THREATS TO BALD EAGLE POPULATIONS

Habitat loss continues to be and will probably continue as the most significant long-term threat to all bald eagle populations in the recovery area. Urban and recreational development, logging, mineral exploration and extraction, and all other forms of human activities are adversely affecting the suitability of breeding, wintering, and foraging areas. While individual and small scale actions may not appear to jeopardize the species as a whole, the cumulative long-term effect throughout the recovery area poses the single most important threat to the species recovery. Only through aggressive habitat management and protection, land acquisition, land planning, and public education can the threat of habitat destruction be offset.

Shooting continues to be the most frequently recorded single cause of bald eagle mortality, though the rate seems to be declining. Of 1429 eagles examined between 1963 and 1984, 23% succumbed to gunshot. Coon et al. (1970) reported that more than half of all eagles examined at the Patuxent Wildlife Research Laboratory between 1960 and 1965 had died of gunshot wounds. However between 1978 and 1981, less than 20% of eagles necropsied had been shot (Reichel et al. 1984). In 1981, 2 marked eagles that were part of movement and reintroduction studies were shot in Oregon and California, and in Washington, Federal investigators arrested 22 people for killing more than 100 eagles (Clark and LeFranc 1981). Of 40 bald eagles from the 7-state recovery area examined since 1976 (Wiemeyer, Patuxent Wildlife Research Center, Laurel, Maryland, pers. comm.), 9 had been shot (the remaining 31 birds died of miscellaneous causes including impact injuries, electrocution, poisoning, diseases, and drowning).

Bald eagle reproduction throughout the species' range seems to have improved since registration of DDT and other organochlorine pesticides was cancelled for most uses in the early 1970's (Postupalsky 1978a). Moderate increases in some breeding populations in the Pacific recovery area have recently become apparent and are probably associated in part with decreasing environmental levels of DDE. However, DDE and PCB's are present in bald eagles on the lower Columbia River and are associated with severe eggshell thinning and low breeding success (Anthony, Oregon Cooperative Wildlife Research Unit, Corvallis, pers. comm). In addition, DDE is still present at significant levels in some pairs in Oregon (Frenzel 1984) and California (Risebrough and Jarman 1985). Wiemeyer (Patuxent Wildlife Research Center, Laurel, Maryland, pers. comm.) found that 20% of the injured and dead eagles sent recently from the Pacific Northwest to the USDI, Fish and Wildlife Service's Patuxent Wildlife Research Center, Laurel, Maryland, contained levels of DDE high enough to hinder reproduction. An adult female found near Bend, Oregon contained higher levels of DDE in the brain than all other 292 eagles analyzed between 1978 and 1981 (Reichel et al. 1984). These facts, along with recent applications of Kelthane (dicofol), a pesticide containing DDT as a manufacturing by-product (Hunt et al. in press, Risebrough et al. in press) suggest that DDT-related problems may continue to threaten bald eagle populations in the Pacific recovery area (Risebrough and Jarman 1985).

Secondary lesd poisoning is a significant problem where eagles feed on crippled and poisoned waterfowl (Mulhern et al. 1970, Jacobson et al. 1977. and Kaiser et al. 1980). Eagles succumb to lead poisoning after ingesting lead pellets in the gizzards and/or flesh of dead and crippled waterfowl (Feierabend and Myers 1984). Between 1975 and 1977. lead poisoning was the 4th most frequent cause of bald eagle mortality (Kaiser et al. 1980). Between 1978 and 1981, 6% of dead bald eagles turned into the U.S Fish and Wildlife Service from throughout the country died of lead poisoning (Reichel et al. 1984). Most baid eagle lead poisoning cases have been disgnosed since 1979, and the frequency of lead poisoning has increased since that time (National Wildlife Health Laboratory 1985). In 1984, 15.2% of all bald eagle mortalities diagnosed by the U.S. Fish and Wildlife Service were attributed to lead poisoning (Feiersbend, National Wildlife Federation, Washington, D.C., pers. comm.). Sublethal lead contamination may contribute to additional mortality (Feierabend and Myers 1984). Eagles are most susceptible to lead poisoning in areas like the Klamath Basin, where waterfowl serve as a primary food for wintering eagles. Four bald eagle deaths from lead poisoning have been recorded in the Klamath Basin since 1975 (Feierabend and Myers 1984). Lead poisoned eagles have been documented in California (5 cases), Oregon (5 cases), Montana (3 cases), Wyoming (3 cases), Idaho (1 case), and Washington (1 The National Wildlife Federation recently listed 6 counties çase). (including 2 in California and 1 in Washington) where the risk of lead poisoning in bald eagles appears to be high (Feierabend and Myers 1984). In addition, the Federation's report identified "lead poisoning problem areas" in California (2 additional counties), Idaho, Montana, Oregon, and Nevada (3 counties each). The long range impact of lead on bald eagle populations in the Pacific recovery area can only be assessed through a great deal of new research. However, establishment of nontoxic shot zones in areas with wintering eagles and waterfowl would be a significant step in alleviating the problem.

Many other environmental contaminants represent potentially significant threats to bald eagles. For example, two immature bald eagles were confirmed to have died recently in California from ingestion of an organophosphate insecticide used for systemic treatment of warble fly in cattle. Dioxin, endrin, heptachlor epoxide, mercury, and polychlorinated biphenyls (PCE's) still occur in eagle food supplies; however, their overall effects on eagle populations are poorly understood.

Eagles are sometimes exposed to lethal poisons from vertebrate pest control programs. Esgles become exposed to such poisons during scavenging activities, mainly by feeding on contaminated carcasses. Eagles are known to have died from thallium, cyanide, strychnine, and 1080. At least 11 eagles died in Wyoming in 1971 from thallium poisoning (National Wildlife Health Laboratory 1985). Strychnine has caused bald eagle mortalities in recent years, as well. The death of at least one bald eagle in California has been attributed to strychnine poisoning associated with control of ground squirrels on rangelands (Detrich, Bureau of Land Management, Ukiah, Californis, pers. comm.). Use of strychnine for Richardson's ground squirrel control coincides with the most active part of the spring bald eagle migration in Montans. Eagles moving through the state tend to prey heavily on the recently emerged ground squirrels. Consequently, the risk of secondary poisoning is greater than at other times of the year. The same concerns exist for northern California bald eagles.

Recent reauthorization for very limited use of the predator control agent, 1080, on public lands--in sheep collars and drop baits--may represent an occasional risk to bald eagles. One eagle death has been documented in Utah as a result of 1080 poisoning (National Wildlife Health Laboratory 1985). Additional bald eagle injuries and mortalities associated with animal demage control programs may occur when eagles are accidentally trapped on rangelands during predator control activities.

Although electrocutions of raptors have decreased in recent years, electrocutions may continue to be a problem on specific electrical distribution lines which do not meet suggested standards for raptor protection (Olendorff et al. 1981). Between 1963 and 1984, approximately 20% of eagle mortalities from California and Oregon were due to electrocution (National Wildlife Health Laboratory 1985). Electrocutions may occur on any unsafe lines in eagle use areas, and young birds whose flight skills are not fully developed are most vulnerable. In general, collisions with power lines seem to accur with less frequency than electrocutions; Olendorff and Lehman (in press) documented only 15 confirmed cases of bald eagle collisions with urility lines. However, in certain areas where bald eagles concentrate, transmission lines can represent a threat. In the Klamath Hasin for example, collisions with transmission lines may cause more injuries and mortalities than electrocutions on distribution lines.

MANAGEMENT FROGRESS TO DATE

, '

Conservation efforts by the Federal government, state agencies, private organizations, and individuals have accelerated in the Pacific recovery area since the 1960's. Although bald eagles were fully protected as individuals under the 1940 Bald Eagle Protection Act (16 U.S.C. 668-668d), populations and habitats have received additional protection under the Endangered Species Act of 1973 (16 U.S.C., 1531 et meq.), as amended. Eagles are also protected by many state laws, and Federal agencies now consult with Fish and Wildlife Service representatives about any agency actions that may affect bald eagles. Five regional recovery teams have been established to outline the actions needed to effect the species' recovery throughout its range.

Interagency working teams have also been established in some states to coordinate management and research activities in specific areas. In California, Oregon, and Washington, bald eagle working teams were formed in the 1970's to identify and mitigate threats to bald eagles and to establish priorities and recommendations for management of the species in those areas. A Greater Yellowstone working group with similar responsibilities for portions of Idaho, Wyoming, and Montana was established in 1981, and a Montana working group was established in early 1982. Local groups have been active in defining management needs for specific areas, as in the Nooksack and Skagit River areas in Washington, and in writing management plans for specific nest sites.

Many steps have been taken to reduce eagle shooting in the Pacific recovery area and throughout the country. The National Wildlife Federation offers a \$500 reward for information leading to the conviction of persons who have shot eagles. In 1981, one man in Oregon (Young 1983), and two in California (Jurek, California Department of Fish and Game, Sacramente, pers. comm.), were convicted of shooting radioed eagles and were heavily fined and given suspended jail sentences. The Glacier Natural History Association, Incorporated recently initiated a crime stopper program to help reduce posching and prosecute violators.

Electric companies in the Pacific recovery area have taken steps since the mid-1970's to resolve many of the problems associated with raptors and power lines. The Idaho Power Company, for example, sponsored extensive work in design changes and modifications of its power lines and poles to reduce raptor electrocutions, and the Edison Electric Institute and Raptor Research Foundation cooperated to publicize guidelines for power line modifications (Olendorff et al. 1981). In California, several power companies are supporting current efforts to assess the impacts of power line collisions on raptor populations. The Pacific Gas and Electric Company recently sponsored a major bald eagle and fish study to assess water and power management plans in an important eagle nesting and wintering area in California.

Rehabilitation facilities in several states are becoming more numerous, and increasing numbers of eagles which otherwise would have been lost are being returned to wild populations.

Annual midwinter counts, coordinated by the National Wildlife Federation, have identified key wintering habitat in the recovery area, and annual breeding activity surveys are conducted for known nest sites in the 7-state recovery area. Coordinated spring surveys began in 1985 in an effort to locate habitats used by migrating eagles. Federal, state, and private organizations have cooperated to make both the winter and spring surveys successful.

Management guidelines for nesting habitat have been written by the California Region of the U.S. Forest Service (USFS) (Forbis et al. 1977), and by the U.S. Fish and Wildlife Service (FWS) for Oregon and Washington. These guidelines have been implemented by government agencies and some private timber companies in their timber management activities. The Bureau of Land Management (BLM) and the USFS are now identifying bald eagle habitat in their planning processes (Peterson and Johnston 1980, Hawks 1982), and have recognized important habitat in special plans such as the Klamath National Forest's "Three Sisters Bald Eagle Winter Roost Management Plan" (Camarena 1978), the Winema National Forest's "Klamath Bald Eagle Habitat Management Plan" (Goold 1981), the Fremont National Forest's "Bald Eagle Management Plan" (Isaacs and Silovsky 1981), and the BLM's "Bowen Canyon Habitat Plan" (Bird 1981). Regional interagency plans have been developed for the Greater Yellowstone Ecosystem (GYE Bald Eagle Working Team 1983) and the Lake Britton area in California (Burke 1983).

The California Board of Forestry adopted new forest practice rules in 1983 to guide timber harvest management and protection measures for bald eagle nesting sites on private timberlands. Although most large commercial timberland owners have been cooperative in protecting nesting sites, the rules do not provide the framework needed to ensure long-term maintenance of breeding territory characteristics.

In a few cases where specific habitats have been threatened, private organizations have intervened. The Nature Conservancy and the Washington Department of Game cooperated to purchase more than 1,200 acres of wintering habitat along the Skagit River. In the Klamath Basin, the Nature Conservancy and the National Wildlife Federation have cooperated to acquire important roosting areas. These agencies are also procuring conservation easements to protect nest sites on private lands.

County land-use and zoning agencies are becoming more involved in eagle management (Lincer 1981). In Washington, San Juan County officials are accepting responsibility for bald eagle habitat protection on private Lands and have restricted some building permits near known nest sites. County land use plans in Shasta County, California; Teton County, Wyoming; and Coos and Klamath Counties in Oregon, have included eagle nests in land planning processes.

From 1980 to 1985, David Garcelon, Institute for Wildlife Studies, Arcata, California, with the cooperation of the FWS, the USFS, the California Department of Fish and Game, and the Washington Department of Game, released 25 fledgling-aged eagles on Santa Catalina Island off the coast of southern California, in an effort to re-establish a breeding population. In the winter of 1985, 11 of the birds released remained

on the island.

 $\mathbf{g} \in \mathcal{X}$

Research on eagles in the recovery area has increased dramatically in recent years. Research at the Oregon Cooperative Wildlife Research Unit is focusing on breeding surveys, nest territory characteristics, and winter roosting habitat. In addition, the Unit's research is yielding valuable data on the influences of movements, foraging behavior, and diets of eagles on uptake of environmental contaminants. The USFS Pacific Southwest Forest and Range Experiment Station in California is analyzing voice recordings of individual magles and evaluating their potential management application (Verner and Lehman 1982). Recognition of individuals through this means may sid in monitoring movements and may provide valuable insight into eagle behavior, nest site tenacity, pair bonding, and dispersal.

Efforts to inform the public about bald eagle conservation and biology have been initiated throughout the 7-state recovery area. The Washington Department of Game has produced four 30-second television messages on eagles, and important eagle concentrations in the Klamath Basin and northern Idaho have received both local and national news coverage. The Greater Yellowstone Working Group has prepared posters, brochures, and public service announcements for television stations in Montana, Wyoming, and Idaho. The Idaho Department of Fish and Game has recently developed two leaflets that include information on bald eagles, and a short slide tape program with script has been developed for speaking engagements by the Montana Bald Eagle Working Group. Private industry has also been an important disseminator of information on eagles. General Wine and Spirits Company, producers of Eagle Rare Bourbon, published a brochure on bald eagles and financed efforts to encourage media coverage of eagle management and protection projects.

Information exchange among professional biologists in the west has also been suimulated in recent years. In Oregon, the National Audubon Society, FWS, and Oregon Department of Fish and Wildlife have sponsored an annual Klamath Basin Bald Eagle Conference to discuss regional problems facing the bald eagle and their possible solutions. In 1980, several conservation agencies sponsored a 2-day symposium in Seattle, Washington on bald eagle management and ecology in the Pacific Northwest (Knight et al. 1980b). In 1983, the Cooperative Wildlife Research Unit at Oregon State University, Corvallis, hosted a workshop on habitat management for nesting and roosting bald eagles in the western United States (Anthony et al. 1983).

State agencies have become increasingly involved in bald eagle protection and management activities through use of tax check-off money earmarked for nongame wildlife. The California Department of Fish and Game, for example, has expended funds from its first year's check-off for the bald eagle reintroduction program in the Channel Islands. This reintroduction program has focused additional public attention on the plight of the eagle. By presidential declaration and a joint resolution of the Congress, June 20, 1982, was proclaimed as "National Bald Eagle Day" (the bald eagle was designated as the National symbol on June 20, 1782), and the year 1982 as the "Bicentennial Year of the American Bald Eagle." This was in recognition of efforts to conserve our national heritage, as symbolized by the bald eagle.

These actions mark the beginning of the bald eagle's recovery in the Pacific recovery area. This recovery plan is meant to continue, expand, and focus these efforts to achieve recovery goals.

- **

OBJECTIVE

.

The primary objective of this recovery plan is to outline steps that will provide secure habitat for bald eagles in the 7-state Pacific recovery area and increase populations in specific geographic areas to levels where it is possible to delist the species. These goals can be achieved through promettion and management of habitat, direct augmentation of populations, increased law enforcement, public awareness, and continued research on the biological requirements of eagles that will provide direction to managers and land planners.

Bald eagles are now classified as "threatened" in Oregon and Washington. Reclassification from endangered to threatened could be considered in the remaining 5 states if the number of nesting puirs continues to increase annually from 1985 to 1990. Reclassification could occur in each of the 5 states separately.

Delisting should occur on a regionwide basis and should be based on 4 priteria. First, there should be a minimum of 800 pairs nesting in the 7-state recovery area. Second, these pairs should be producing an annual average of at least 1.0 fledged young per pair, with an average success rate per occupied site of not less than 65% over a 5-year period. Third, to ensure an acceptable distribution of nesting pairs, population recovery goals must be met in at least 80% of the management zones with nesting potential (see below). Finally, a persistent, long term decline in any sizeable (greater than 100 birds) wintering aggregation would provide evidence for not delisting the species.

The status of the breeding population is the most important criterion for delisting. Goals for wintering populations cannot be established as easily because of year-to-year fluctuations in migration and habitat use. If the breeding population goal is reached, we can assume that adequate breeding habitat has been secured. Wintering habitat (both roosting and foraging) must also be managed to support existing populations and to allow for the proposed increases in populations.

An important element of the recovery goal is the reproductive rate. High populations alone will not ensure the species' recovery if pairs are producing young at a low rate. Unfortunately, we do not have information on mortality rates or minimum recruitment necessary for population stability. Studies of other eagle populations (see Sprunt et al. 1973) indicate that from 0.8 to 1.1 young per pair (occupied site) are produced yearly in populations that appear to be stable in Alaska, the Great Lake States, and Florida. In the Pacific recovery area, productivity has averaged just less than 1.0 per pair over the last 10 years (Table 1). There has been a close correlation between number of young produced per pair and percentage of occupied sites that successfully produce young (Table 1; Anthony, unpubl. data). A productivity rate of 1.0 young per pair has been correlated with 65% of occupied territories being successful. Because this latter measure may be easier to obtain from
extensive surveys, it has been included in the recovery objective.

The zone approach is central to the recovery process because establishment of well-distributed eagle populations and habitats is important to recovery of the species in the Facific recovery area. With breeding populations distributed throughout the recovery area, gene flow betweeen subpopulations will be possible, and the risk of species extinction from disease outbreaks or other catastrophic events will be reduced. Another justification for the zone approach is that populations, threats, potentials for increase, and management strategies differ greatly throughout the recovery area. Forty-seven management zones (Figure 1) have been designated in the 7-state Pacific recovery area based on physiographic features, seasonal use by eagles, major land uses, and land ownership. Thirty-seven of these zones are believed to have nesting potential.

The overall population goal of 800 pairs is equivalent to a minimum nucleus of nesting pairs which, if self-sustaining over the long-term, will be capable of maintaining the genetic variability in the breeding population. The Habitat Management Goal (1178 territories) is the minimum number of territories needed to provide secure habitat for this recovered population. It is higher than the goal for number of breeding pairs because not all territories can be expected to be occupied in any given year. In each of the zones with nesting potential, recovery goals have been expressed as both a "Habitat Management Goal" and a "Population Goal" (Table 3). The Population Goal for each zone took into consideration the number of existing pairs and the estimated availability of suitable habitat within the zone. Habitat Management Goals for each zone are based on 1983 information on local occupancy rates or the best estimated approximation of occupancy rates (Habitat Management goal = Population Goal / Occupancy Rate). Each zone's Habitat Management Goal is far below the amount of potential habitat that is now available, just as the Population Goal is far short of what might be considered the biological potential or highest possible population. Throughout the Pacific recovery area, recovery goals are still probably only a fraction of historical population levels.

To reach the recovery goals, eagles will have to occupy existing nesting territories as well as areas that are presently not used by eagles. Areas that contain important habitat for eagles have been identified in Appendix A as "key areas." Many of the key areas appear capable of supporting more nesting pairs than they now do. In addition, some areas not now used by eagles appear capable of supporting nesting pairs. The areas most likely to be occupied by nesting pairs in the next 5-10 years are identified as "target recovery territories" in Appendix A. Areas apparently suitable but not presently used for nesting were identified with the assistance of local, state, and federal biologists. Designation of these areas was aided by the existence of historical nesting records, repeated sightings of adult bald eagles in an area during spring and summer, and/or the presence of forests with large trees within 1.6 km (1 mi) of a permanent body of water that possesses a good supply of fish and/or waterfowl. Assessment of suitability took social and political constraints into account with the assumption that no major habitat alterations would be undertaken for the sole purpose of benefiting bald eagles.

2 E



Zone Number	r - Name 1	Number of Existing Territories	Habitat Management Goal	Number of Currest Pairs	Recovery Popula- tion Goal (Number of Breeding Pairs)
1 Wa	ashington Coast	68	101	48	74
	lympic Peninsula	8	23	4	17
	outhwest Washington	11	11	8	8
	uget Sound	161	156	130	115
-	est Cascade Mts.	16	150	150	13
	ascade Mountains	10	27	7	20
	pper Columbia Basin	47	98	40	69
	alouse Prairie	2	4	1	3
	lue Mountains	2	14	1	8
-	olumbia River	25	47	21	31
	igh Cascades	26	47	24	33
	illamette/Umpqua Basins	6	42	6	25
	regon Coast	31	64	27	42
	nake River Canyon	1	12	0	6
	entral Idaho	2	6	ĩ	4
	oise Valley	1	9	1	5
	igh Desert	1	1	ī	1
	reater Yellowstone	56	65	49	50
	aribou/Green River	0	3	Ő	1
	nake River Floodplain	ŏ	2	ő	0
_	arney Basin/Warner Mts.	2	16	2	10
	lamath Basin	77	108	68	80
	alifornia/Oregon Coast	9	52	7	28
	hasta/Trinity	20	26	13	
-	it River	18	26		20
	assen/Plumag	26	24 41	13	21 27
	acramento Valley & Foothil		15	16 3	8
	ierra Nevada Mts.	_			
		1	32	õ	15
	an Joaquin Valley	0	0	0	0
	entral California Coast hannel Islands	0	11	0	4
	outhern Coast	0	16 4	0	6
	olorado River	0 0	4	0	0
	hite River Valley	0	1	0	0
	arson	0	0	0	0
	ntelope Valley	0	0	0	0
	reat Basin	1	2	0	2
	issouri Headwaters	1 6	2	- -	2 6
	pper Missouri	6	13	د ۲	10
	ighorn	7	23	2	14
	owder River	, ,	14	2	
	ower N. Platte River	0	-	0	9
	aramie Plains	v A	0	_	· 0
	aratoga	U E	0	0	0
	ed Desert	0	8	2	2
	inedale	0	0	0	U ·
-	issouri Basin	2	5	0	4
₹7 .T		0	<u> </u>	0	0
	Grand Total	665	1178	527	800

TABLE 3. Number of existing territories and pairs, and habitat and population goals, by zone. Additional summaries are in Appendix A.

.

Includes all territories occupied at any time between 1970 and 1985 where habitat remains suitable.

٠

1.3

- Habitat management goal = the minimum number of territories needed to provide secure habitat for the recovered population.
- 3 Includes all territories occupied in the most recent complete survey of a particular area.
- 4 Recovery population goal = the minimum nucleus of nesting pairs which, if self-sustaining over the long-term, will be capable of maintaining the genetic variability in the breeding population.

Recovery goals are not intended to be tied to specific distributions within zones. Specific areas are listed in Appendix A only to provide guidance on how recovery goals <u>might</u> be achieved in each zone.

Although the criteria for setting goals were similar in all zones, potential habitat is not distributed uniformly over the 7-state recovery area. Furthermore, populations in some zones are nearer recovery levels than those in other zones. Consequently, the goals and the magnitudes of increase vary among zones. In most zones, the sum of all existing territories and target recovery territories is equal to the Habitat Management Goal for that zone. However in other zones, the Habitat Management Goal may be less than that summation.

Eagle habitat protection and management must be a primary consideration in habitate that currently support breeding or wintering populations of eagles both until and after the zone's recovery goal has been attained. Eagles should also receive consideration in areas that are unused but appear capable of supporting mesting pairs. Unused areas will provide habitat for increased populations as well as replacement habitat for existing sites that become unusable.

All tasks needed to achieve recovery throughout the Pacific recovery area are in the stepdown portion of the plan. Certain tasks, including habitat protection, will be implemented at a local level, while others, including research, will take place on a regionwide basis. In the implementation schedule, the team has distinguished the two types of tasks, and has listed the zones in which the more site-specific tasks need to be uncertaken. Appendix A outlines the main threats, recommended management direction, responsible agencies, and most urgent site-specific stepdown tasks for each zone.

1. PROVIDE SECURE HABITAT

.

10

1.1 IDENTIFY BREEDING AND NONBREEDING HABITAT

.

- 1.11 LOCATE AND DESCRIBE ALL EXISTING NEST SITES, COMMUNAL ROOSTS, FORAGING AREAS, AND AREAS USED DURING MIGRATION
- 1.12 ASSESS THE SUITABILITY OF HABITAT NOT PRESENTLY USED BY BALD EAGLES
- 1.2 SECURE BREEDING AND NONBREEDING HABITAT
 - 1.21 SECURE SPECIFIC SIGNIFICANT HABITAT THROUGH LEASE, TRADE, EASEMENT, COOPERATIVE AGREEMENTS OR PURCHASE
 - 1.22 ESTABLISH RESERVES AND MANAGEMENT AREAS WHERE NECESSARY
 - 1.23 INCORPORATE EAGLE HABITAT GUIDELINES IN AGENCY LAND USE PLANS
 - 1.24 INCORPORATE EAGLE HABITAT GUIDELINES IN DEVELOPMENT COVENANTS AND REGIONAL AND COUNTY LAND USE AND ZONING POLICIES
 - 1.25 DESIGN AND IMPLEMENT PLANS TO SECURE INDIVIDUAL NEST SITES, ROOSTS, AND FORAGING AREAS
 - 1.26 ESTABLISH A FRAMEWORK FOR RECOVERY PLAN IMPLEMENTATION WHEREBY MANAGEMENT AND RESEARCH ACTIVITIES ARE COORDINATED.
 - 1.27 SUPPORT CHANGES IN LOCAL AND FEDERAL TAX PROGRAMS THAT ENCOURAGE LANDOWNERS TO MAINTAIN BALD EAGLE HABITAT
- 1.3 MANAGE BREEDING AND NONBREEDING HABITAT
 - 1.31 MAINTAIN AND IMPROVE QUANTITY, QUALITY, AND AVAILABILITY OF FOOD SUFPLIES
 - 1.311 MANAGE INLAND AND ANADROMOUS FISH POPULATIONS AND HABITATS TO MAINTAIN AND ENHANCE ADEQUATE FOOD FOR EAGLES
 - 1.3111 MANAGE WATER LEVELS TO MAINTAIN AND ENHANCE EAGLE FOOD SOURCES
 - 1.3112 ENCOURAGE STOCKING OF FISH IN IMPOUNDMENTS THAT SUPPORT INADEQUATE FISH POPULATIONS
 - 1.3113 DISCOURAGE STREAM CHANNELIZATION AND LEVEE PROJECTS: PRESERVE WINDING, BRAIDED RIVER STRETCHES

1.3114 PLAN FOR ARTIFICIAL FEEDING PROGRAMS USING HATCHERY FISH DURING EMERGENCY FOOD SHORTAGES

1.4

- 1.3115 REVIEW PROGRAMS TO CONTROL NON-SPORT FISH IN KNOWN EAGLE FORAGING AREAS
- 1.3116 DISCOURAGE CHEMICAL CONTROL OF AQUATIC INSECTS IN EAGLE USE AREAS
- 1.3117 PROTECT AND ENHANCE NATURAL SPAWNING POPULATIONS AND SPAWNING CROUNDS OF SALMON AND OTHER IMPORTANT FISH SPAWNERS TO INCREASE AVAILABILITY TO EAGLES
- 1.3118 MAINTAIN AND IMPROVE HABITAT FOR FISH BY REDUCING SILTATION FROM LOGGING, ROADS, AND OVERGRAZING
- 1.312 MAINTAIN AND ENHANCE AVIAN AND MAMMALIAN FOOD SOURCES
 - 1.3121 MAINTAIN AND ENHANCE WETLAND AREAS FOR WATERFOWL PRODUCTION
 - 1.3122 ENHANCE WATERFOWL HABITAT ON BALD EAGLE WINTERING AREAS
 - 1.3123 LEAVE AVIAN AND MAMMALIAN CARCASSES ON SITES FOR FUTURE USE BY EAGLES
 - 1.3124 ENCOURAGE FLOODING OF FIELDS DURING WINTER, WHERE APPROPRIATE, TO MAKE RODENTS AVAILABLE TO EAGLES
- 1.32 MAINTAIN AND IMPROVE FORESTED HABITAT IN BOTH THE BREEDING AND WINTERING RANGE
 - 1.321 MAINTAIN FORESTED HABITAT THAT IS PRESENTLY USED BY EAGLES
 - 1.3211 PROHIBIT LOGGING OF KNOWN MEST TREES, PERCH TREES, AND WINTER ROOST TREES
 - 1.3212 MANAGE TIMBER STANDS USED BY EAGLES TO PREVENT INSECT INFESTATIONS WHERE APPROPRIATE
 - 1.3213 WHERE SUITABLE, STABILIZE SOIL AND STREAMBANKS TO PROTECT NESTING, PERCHING, AND ROOSTING TREES
 - 1.3214 DEVELOP CONTINGENCY PLANS TO PROTECT NESTING AND WINTERING HABITAT IN EMERGENCIES, E.G. WILDFIRE PRE-ATTACK OR PREVENTION PLANNING

1.3215 PRESERVE \$NACS IN EAGLE USE AREAS

5 J.K.

- 1.322 MAINTAIN AND DEVELOP NESTING AND ROOSTING HABITAT FOR FUTURE USE BY EAGLES
 - 1.3221 MANAGE YOUNG TREE STANDS TO MEET DESIRED PHYSICAL CHARACTERISTICS
 - 1.3222 PLANT NEW TREES IN POTENTIAL BALD EAGLE USE AREAS DEVOID OF TREE REPRODUCTION
 - 1.3223 PROVIDE ARTIFICIAL PERCHES AND NEST STRUCTURES WHERE NATURAL SITES ARE NOT AVAILABLE
 - 1.3224 CREATE SNAGS WHERE SUITABLE PERCH TREES ARE NOT AVAILABLE
- 1.33 RESTRICT HUMAN DISTURBANCE AT EAGLE USE AREAS
 - 1.331 ESTABLISH BUFFER ZONES AROUND NEST SITES
 - 1.332 EXCLUDE LOGGING, CONSTRUCTION, HABITAT IMPROVEMENT, AND OTHER ACTIVITIES DURING CRITICAL PERIODS OF EAGLE USE
 - 1.333 PROHIBIT BUILDING CONSTRUCTION NEAR KEY BALD EAGLE NESTING AND WINTERING HABITATS
 - 1.334 PROHIBIT VEHICLE TRAFFIC AT SENSITIVE KEY AREAS DURING PERIODS OF EAGLE USE

- 2. INVENTORY, MONITOR, AND RESEARCH BALD EAGLE HABITAT AND POPULATIONS TO OBTAIN ADEQUATE KNOWLEDGE FOR DEVELOPING AND EVALUATING MANAGEMENT PROGRAMS
 - 2.1 COLLECT INFORMATION NECESSARY TO MANAGE AND SECURE HABITAT
 - 2.11 MONITOR THREATS AND CHANGES TO HABITAT
 - 2.111 MONITOR THREATS AND CHANGES TO NESTING TERRITORIES

È 😰

28 X 4 1

- 2,112 MONITOR THREATS AND CHANGES TO FORAGING AREAS
- 2.113 MONITOR THREATS AND CHANGES TO COMMUNAL ROOSTS AND ASSOCIATED WINTER HABITAT
- 2.114 MONITOR THREATS AND CHANGES TO HABITAT FOR MIGRATING AND NONBREEDING EAGLES
- 2.12 DETERMINE HABITAT FACTORS THAT INFLUENCE NUMBERS AND PRODUCTIVITY OF EAGLES
 - 2.121 COMPLETE THE IDENTIFICATION OF IMPORTANT CHARACTERISTICS FOR NESTING TERRITORIES
 - 2.122 COMPLETE THE IDENTIFICATION OF IMPORTANT CHARACTERISTICS FOR COMMUNAL ROOSTS
 - 2.123 DOCUMENT DIETS AND FORAGING REQUIREMENTS OF BALD EAGLES AND REQUIREMENTS OF THEIR MAIN PREY SPECIES
 - 2.1231 DOCUMENT DIETS, MOVEMENTS, TERRITORY SIZE, AND FORAGING BEHAVIOR OF BREEDING BALD EAGLES
 - 2.1232 DOCUMENT MOVEMENTS, DIETS, AND HABITAT USE OF JUVENILE BALD EAGLES
 - 2.124 IDENTIFY MIGRATORY PATHWAYS AND HABITAT REQUIREMENTS OF MIGRATING AND NONBREEDING BALD EAGLES
 - 2.125 INVESTIGATE THE INFLUENCE OF HUMAN DISTURBANCE ON BALD EAGLES
- 2.2 ASSESS THE POPULATION STATUS OF BALD EAGLES AND FACTORS INFLUENCING POPULATION STABILITY AND EXPANSION IN THE RECOVERY AREA
 - 2.21 COLLECT INFORMATION TO ASSESS POPULATIONS AND PRODUCTIVITY
 - 2.211 INVENTORY THE BREEDING POPULATION AND DETERMINE ANNUAL PRODUCTIVITY
 - 2.212 IDENTIFY AND MONITOR THE SIZE AND DISTRIBUTION OF WINTERING POPULATIONS

2.213 LOCATE AND STUDY POPULATIONS OF NONEREEDING BALD EAGLES DURING THE BREEDING SEASON

2.214 DOCUMENT MORTALITY RATES OF ADULT AND SUBADULT EAGLES

2.22 DETERMINE FACTORS INFLUENCING BALD EAGLE POPULATION STABILITY AND EXPANSION

* *

- 2.221 DETERMINE THE MAIN CAUSES OF EACLE MORTALITY
 - 2.222 MONITOR LEVELS OF POLLUTANTS AND THE EFFECTS THEY HAVE ON EAGLES
 - 2.223 IDENTIFY BEHAVIORAL AND GENETIC CONSTRAINTS THAT MAY INFLUENCE RATES OF RE-POPULATION AND THE SUCCESS OF REINTRODUCTION EFFORTS

3. DEVELOP AND MAINTAIN PUBLIC AWARENESS AND LAW ENFORCEMENT PROGRAMS

- 3.1 DEVELOP PUBLIC INFORMATION PROGRAMS
 - 3.11 MAINTAIN AND DEVELOP GENERAL INFORMATION PROGRAMS FOR BROAD PUBLIC DISTRIBUTION

2.4

- 3.12 DEVELOP SPECIFIC INFORMATION PROGRAMS FOR COMMUNITIES AND GROUPS IN EAGLE AREAS
- 3.13 PUBLICIZE REWARD PROGRAMS AND CONVICTIONS OF EAGLE LAW VIOLATORS
- 3.14 DISSEMINATE INFORMATION ON THE HANDLING OF DEAD AND INJURED EAGLES
- 3.15 ESTABLISH PUBLIC INFORMATION PROGRAMS DESIGNED TO REDUCE BALD EAGLE MORTALITY
- 3.16 DEVELOP A "LAND ETHIC" AMONG LANDOWNERS OF BALD EAGLE HABITAT
- 3.2 PROVIDE FOR ADEQUATE STATE AND FEDERAL EAGLE PROTECTION EFFORTS
 - 3.21 PROMOTE AND ENFORCE REGULATIONS WHICH PROVIDE CIVIL PENALTIES FOR SHOOTING BALD EAGLES
 - 3.22 PROMOTE AND ENFORCE REGULATIONS INTENDED TO PREVENT ACCIDENTAL TRAPPING OF BALD EAGLES
 - 3.23 ENCOURAGE SPECIAL LAW ENFORCEMENT PROGRAMS TO END THE ILLEGAL TRADE IN EAGLE PARTS
 - 3.24 PROMOTE AND SUPPORT IMPROVED ENFORCEMENT OF EAGLE PROTECTION LAWS
 - 3.25 EXPAND AND ENCOURAGE REWARD PROGRAMS TO ASSIST IN IDENTIFYING AND PROSECUTING EAGLE LAW VIOLATIONS
 - 3.26 DEVELOP CONSISTENT AND ENFORCEABLE INTERPRETATIONS OF LAWS AND REGULATIONS PROTECTING BALD EAGLE HABITAT
- 3.3 PROVIDE SEASONAL SURVEILLANCE AT SELECTED HABITATS WHERE EAGLES ARE VULNERABLE TO HUMAN DISTURBANCE OR HARASSMENT

- 4. AUGMENT BALD EAGLE POPULATION LEVELS THROUGH MANAGEMENT AND PROTECTION
 - 4.1 REDUCE BALD FAGLE MORTALITY

e . . .

...

- 4.11 REDUCE BALD FAGLE MORTALITY ASSOCIATED WITH SHOOTING AND TRAPPING
- 4.12 REDUCE EXPOSURE OF BALD EAGLES TO CONTAMINANTS
 - 4.121 RESTRICT USE OF POISONS DETRIMENTAL TO EAGLES IN PREDATOR AND RODENT CONTROL PROGRAMS WITHIN IMPORTANT BALD EAGLE NESTING AND WINTERING HABITAT
 - 4.122 PROMOTE THE USE OF NONTOXIC SHOT FOR WATERFOWL HUNTING
 - 4.123 DEVELOP CONTINGENCY PLANS TO DEAL WITH DISEASE AND CONTAMINANT EMERGENCIES
- 4.13 REDUCE IMPACT AND ELECTROCUTION MORTALITY ASSOCIATED WITH POWER LINES
 - 4.331 REPLACE OR MODIFY PROBLEM POWER LINE STRUCTURES, USING ACCEPTED DESIGNS
 - 4.132 RESTRICT POWER LINE CONSTRUCTION WITHIN IDENTIFIED FLIGHT LANES NEAR WINTER ROOSTS
- 4.34 REHABILITATE SICK, INJURED, AND ORPHAN BALD EAGLES FOR RELEASE INTO THE WILD
- 4.2 AUGMENT BALD EAGLE POPULATIONS IN SPECIFIC GEOGRAPHIC AREAS USING TESTED MANAGEMENT TECHNIQUES
 - 4.21 ENHANCE PRODUCTIVITY OF PAIRS NESTING IN THE WILD
 - 4.22 ESTABLISH NEW BREEDING POPULATIONS IN SUITABLE HABITAT BY TRANSLOCATION
 - 4.23 DEVELOP CAPTIVE BREEDING PROGRAMS TO SUPPLEMENT NATURAL POPULATIONS WHEN NEEDED

1. PROVIDE SECURE HABITAT

Providing secure habitat for eagles involves identifying important habitat, arranging for its long-term protection, and managing it to ensure that its components (e.g., food, nest sites, roost trees) are maintained and enhanced.

1.1 IDENTIFY BREEDING AND NONBREEDING HABITAT

Each year, more eagle nests and roosts have been located in the Pacific recovery area. Based on the coverage of recent surveys, approximately 10% of the nests and major roosts may not have been located. The identification of main use areas is the first step in recovery and management.

1.11 LOCATE AND DESCRIBE ALL EXISTING NEST SITES, COMMUNAL ROOSTS, FORAGING AREAS, AND AREAS USED DURING MIGRATION

Nesting and winter inventories should continue, and all suitable habitat should be searched. Historical records may help to identify areas that are currently used.

In the wintering areas, communal roosts are usually the most difficult habitat component to locate. Any stand of large, old trees located near a food source should be considered a potential roost site. Precise locations and land ownership of all use areas must be documented for future reference.

1.12 ASSESS THE SUITABILITY OF HABITAT NOT PRESENTLY USED BY BALD EAGLES

Recovery of eagles hinges on availability of currently unused but suitable habitat throughout the recovery area. Procedures must be developed to enable land managers to identify these areas. This step is essential in providing the basis for managing suitable but unused habitat: i.e. the habitats that will meet future needs of recovered populations. In addition, it is critical for identifying areas in which translocation (Part 4.22) should be considered.

Several Habitat Suitability Index (H.S.I.) models have been developed, but most remain untested. Occupied habitats, habitats formerly used by bald eagles, and unused areas that appear similar to areas now being used should be described. Analysis should include assessment of disturbance factors, food availability, potential nest, roost, and perch substrates, foraging habitat characteristics, and any other factors that may be limiting to eagles. Features of potential habitat should be compared with the characteristics of occupied habitat to identify missing elements. The data compiled should be used to verify proposed relationships in habitat suitability models.

1.2 SECURE BREEDING AND NONBREEDING HABITAT

Much of the bald eagle habitat in the Pacific recovery area is threatened by development and is not adequately protected by legal statutes. Land use and zoning policies can provide protection in some situations. In others, transfer from private to public ownership must be considered. Habitats in public ownership should be recognized and given priority consideration by agencies. Local working teams (see step 1.26) should play a strong role in all efforts to secure habitat.

1.21 SECURE SPECIFIC SIGNIFICANT HABITAT THROUGH LEASE, TRADE, EASEMENT, COOPERATIVE AGREEMENTS OR PURCHASE

Nest sites and communal roosting sites should be high priorities for preservation, especially those areas that are threatened by development or logging. The National Wildlife Federation, the Nature Conservancy, the National Audubon Society, and appropriate government agencies should be alerted to high priority preservation needs and should be encouraged to participate and cooperate in securing habitat. The U.S. Fish and Wildlife Service should develop land protection plans (LPP's) for specific habitats that need protection. A protective easement can be an effective way to protect habitat on private land. Exchange should be considered and encouraged, especially if the private land adjoins land administered by a federal or state agency.

1.22 ESTABLISH RESERVES AND MANAGEMENT AREAS WHERE NECESSARY

This approach may be most suitable where human disturbance is a limiting factor for eagles; where intensive, long-term management activities are needed; or where eagle management is being featured over other land management options.

1.23 INCORPORATE EAGLE HABITAT GUIDELINES IN AGENCY LAND USE PLANS

The National Forest Management Act (N.F.M.A.) of 1976 directs that Forest plans insure that habitat for threatened or endangered species is maintained or improved in order to accomplish recovery of the species. Forest plans should address habitat needs for present and recovery levels of eagles. The N.F.M.A. also directs special attention be given to land and vegetation approximately 30 m (100 ft) from edges of all perennial streams, lakes and water bodies, in order to prevent degradation of water quality and fish habitat. Adherence to these riparian objectives will provide indirect benefits to eagles.

The Bureau of Land Management (BLM) should retain and manage habitat on BLM-administered public lands to benefit bald eagles and compatible uses in accordance with the Federal Land Policy and Management Act (FLPMA). These lands should be identified as important eagle habitat in the Resource Management Planning (RMP) process. The BLM should seriously consider designating all or parts of these areas as "Areas of Critical Environmental Concern".

State agencies (such as Departments of Lands, Forestry, Parks, and Wildlife) and other Federal agencies (such as the Bureau of Reclamation, Bureau of Indian Affairs, and Army Corps of Engineers) should also adopt eagle habitat management guidelines. These guidelines should ensure that activities conducted, permitted, or monitored by agencies will not adversely affect bald eagles. Timber harvest review teams, such as now exist in California and Oregon, are effective in implementing such guidelines.

1.24 INCORPORATE FAGLE HABITAT GUIDELINES IN DEVELOPMENT COVENANTS AND REGIONAL AND COUNTY LAND USE AND ZONING POLICIES

> Land management, zoning, and planning for bald eagle protection on private lands have been successful in some areas and can help landowners develop a sense of stewardship for bald eagles and their habitat (see 3.16). Ordinances should include many of the habitat protection guidelines outlined in this plan (including regulation of disturbance and habitat management recommendations). Coastal and floodplain zoning are especially important for bald eagle habitat protection. Subdivision developers should be encouraged to adopt restrictive covenants that protect bald eagle habitat.

1.25 DESIGN AND IMFLEMENT PLANS TO SECURE INDIVIDUAL NEST SITES, ROOSTS, AND FORAGING AREAS

Plans must be developed on a site-specific basis throughout the recovery area. Plans should describe the human activities that can be permitted as well as those that must be prohibited. They should also describe the steps needed to protect and secure key habitat such as nests, roosting trees and food resources. Each plan should include a map outlining the important eagle use areas and a list of appropriate methods for protecting suitable nesting, foraging, and roosting habitat over time.

t.

1.26 ESTABLISH A FRAMEWORK FOR RECOVERY PLAN IMPLEMENTATION WHEREBY MANAGEMENT AND RESEARCH ACTIVITIES ARE COORDINATED.

The U.S. Fish and Wildlife Service should coordinate recovery efforts and monitor implementation of the recovery plan at the regional level. At the local level, working teams should have a strong role in implementing the plan. Bald cagle working teams have been effective in Oregon, Washington, California, Montana, and the Greater Yellowstone area. These teams have helped to set priorities, have responded to specific problems, and have coordinated the activities of several groups. Teams usually consist of representatives of agencies, organizations, and private companies responsible for management as well as interested individuals. Each working team should be responsible for developing a local implementation plan that addresses more specific issues than the recovery plan. Where working groups do not exist, either a recovery team representative or an appointed representative of a state wildlife agency should take the lead in notifying local agencies about responsibilities for implementing the plan and in monitoring recovery progress. All work related to the recovery effort (including expenditures, accomplishments, and research results) should be reported to the U.S. Fish and Wildlife Service Regional Office, Portland by 30 September of each year.

1.27 SUPPORT CHANGES IN LOCAL AND FEDERAL TAX PROGRAMS THAT ENCOURAGE LANDOWNERS TO MAINTAIN BALD EAGLE HABITAT.

In the past, various tax programs such as the Federal inheritance tax and county property taxes have encouraged the sale of bald eagle habitat for development. The effects of existing tax programs in each key area with potential for development should be evaluated. Changes in tax structure that encourage retention of bald eagle habitat should be proposeć.

1.3 MANAGE BREEDING AND NONBREEDING HABITAT

Habitat management is one of the most important steps in the recovery process and must occur in nesting habitat, habitat used by non-nesters during the breeding season, wintering habitat, and habitat used by eagles during migration. Habitat management must also occur at all levels. At the zone level, management should consist of coordinating the efforts of resource managers from various agencies. The key areas should be the primary focus of habitat management within each zone. At the site-specific level, managers should identify and manage for the specific needs of individual territorial pairs and groups of roosting eagles.

1.31 MAINTAIN AND IMPROVE QUANTITY, QUALITY, AND AVAILABILITY OF FOOD SUPPLIES

Food is probably the single most important component of eagle habitat. Without an uncontaminated and readily available food source, both nesting and wintering populations would diminish. Because the diet is varied and depends on several migratory species, management is complex.

1.311 MANAGE INLAND AND ANADROMOUS FISH POPULATIONS AND HABITATS TO MAINTAIN AND ENHANCE ADEQUATE FOOD FOR EAGLES

Maintenance of a fish supply for eagles involves both basic fisheries management and a conscious effort to ensure that fish are available to eagles. It is essential, of course, to ensure adequate reproduction of fish populations that are now used by eagles. This may entail fish habitat protection measures such as preventing siltation, maintaining natural stream channels, and regulation of water levels and flow rates. It is also important to ensure that fish are available to eagles. Recreation may need to be restricted on some rivers and reservoirs to allow eagles full access to foraging areas during certain critical seasons (see 1.334). Eagles that customarily feed on salmon must have access to the carcasses.

1.3111 MANAGE WATER LEVELS TO MAINTAIN AND ENHANCE EAGLE FOOD SOURCES

Water level management is an important factor influencing the bald eagle's food supply, and existing dams provide numerous opportunities for fisheries management that will benefit eagles. Flow augmentation during periods of salmon migration may be a key to maintenance and restoration of anadromous fish runs on which eagles depend. Generally, minimum stream flows and reservoir conservation pools are essential for maintaining fisheries that are important to eagles. Temporarily low levels at certain times can either enhance foraging opportunities for eagles or decrease survival of important fish populations. The benefits and drawbacks of water level management must be considered in individual situations.

1.3112 ENCOURAGE STOCKING OF FISH IN IMPOUNDMENTS THAT SUPPORT INADEQUATE FISH POPULATIONS

Priority areas for stocking should be locations where stocking will benefit both recreation and eagles. For example, annual stocking of waters that freeze in the winter will provide a source of winter-killed fish for eagles in the early spring and recreational opportunities in the summer.

1.3113 DISCOURAGE STREAM CHANNELIZATION AND LEVEE PROJECTS: PRESERVE WINDING, BRAIDED RIVER STRETCHES

> The presence of gravel bars interspersed with deep pools is critical for reproduction of many riverine fish species. Winding, braided river stretches also facilitate stranding of fish during the spawning season, thus making them available to eagles. Stream channel preservation is especially important for salmon spawning areas.

1.3114 PLAN FOR ARTIFICIAL FEEDING PROGRAMS USING HATCHERY FISH DURING EMERGENCY FOOD SHORTAGES

> Artificial feeding programs should be initiated in a few unusual situations where natural food sources have been depleted. Techniques have already been implemented on the Skagit and Nooksack Rivers in Washington; dead fish were released into river systems from hatchery holding ponds, and stored frozen carcasses were deposited on open shorelines. This technique will be most appropriate at salmon spawning areas during floods and serious fish population declines. It may also be applicable in situations where fish escapement is inadequate to support eagle populations.

1.3115 REVIEW PROGRAMS TO CONTROL NON-SPORT FISH IN KNOWN EAGLE FORAGING AREAS

> Although salmonids are major food sources for eagles in some areas, rough fish, such as carp, chubs and suckers are the primary food in other areas. Programs to control non-sport fish in eagle foraging areas should be carefully reviewed and restricted if necessary to insure that fish populations are sufficient to support the eagles that forage in the area.

1.3116 DISCOURAGE CHEMICAL CONTROL OF AQUATIC INSECTS IN EAGLE USE AREAS

Control of insects with insecticides may threaten eagle populations directly by contamination of food resources or indirectly by decreasing the food supply for fish and ultimately eagles. These programs should be evaluated in key eagle use areas and discouraged where necessary.

۰.

1.3117 PROTECT AND ENHANCE NATURAL SPAWNING POPULATIONS AND SPAWNING GROUNDS OF SALMON AND OTHER IMPORTANT FISH SPAWNERS TO INCREASE AVAILABILITY TO EAGLES

> In many situations, spawning salmon are intercepted at hatcheries, stripped of eggs, and processed for human use. Fewer fish spawn naturally to become available to eagles. Eagles rely on the spawned-out salmon carcasses, and naturally spawning populations must be maintained.

1.3118 MAINTAIN AND IMPROVE HABITAT FOR FISH BY REDUCING SILTATION FROM LOGGING, ROADS, AND OVERGRAZING

> Excessive siltation that often results from poorly planned logging, road building, and grazing operations can interfere with fish reproduction and also make fish unavailable to eagles. Managers should address this problem in all drainages associated with existing or potential bald eagle habitat.

1.312 MAINTAIN AND ENHANCE AVIAN AND MAMMALIAN FOOD SOURCES

Avian and mammalian prey are a primary food of eagles in some areas and a secondary prey in most others. It is important that alternate prey be available to eagles in the event of serious fish die-offs or contaminations.

1.3121 MAINTAIN AND ENHANCE WETLAND AREAS FOR WATERFOWL PRODUCTION

Waterfowl comprise a significant portion of the eagle diet throughout the west; their reproduction must be maintained at eagle breeding areas in the Pacific recovery area as well as further north. Waterfowl produced in Canada are important to wintering eagle populations in the Pacific recovery area.

1.3122 ENHANCE WATERFOWL HABITAT ON BALD EAGLE WINTERING AREAS

Because of their importance both as a primary and secondary eagle food source, waterfowl populations should be encouraged to use areas of open water where bald eagles winter. A small population of waterfowl can support many wintering eagles. Waterfowl habitat management can include water level management and establishment of food plots, such as fields of unharvested corn.

1.3123 LEAVE AVIAN AND MAMMALIAN CARCASSES ON SITES FOR FUTURE USE BY EAGLES

Dead birds and mammals provide important food for eagles in the winter and early spring. Livestock and game carcasses should be removed from eagle use areas only if contaminants or disease agents are present, human health is endangered, or the location of the carcasses (e.g. on roads or railroad tracks) could cause eagle injuries or mortalities. In emergency weather situations, it may be desirable to deposit carcasses at eagle use areas. State conservation officers should develop plans for distributing road-killed game during emergency situations.

47

1.3124 ENCOURAGE FLOODING OF FIELDS DURING WINTER, WHERE APPROPRIATE, TO MAKE RODENTS AVAILABLE TO EAGLES

Flooding of agricultural fields for the purpose of rodent control provides an important food source for wintering eagles in the Klamath Basin. As many as 4,400 bald eagle use-days were recorded on one ranch during December 1981. Many farmers use flooding as an alternative to poisoning and thereby do not contaminate potential eagle food sources (see 4.121).

1.32 MAINTAIN AND IMPROVE FORESTED HABITAT IN BOTH THE BREEDING AND WINTERING RANCE

Timber stands should be managed to promote habitat characteristics required by eagles for long-term nesting and roosting. In most cases, this requires management for old-growth stands. Silvicultural techniques, such as thinning or selective harvest, can help to create proper tree species composition and stand structure. The important element of any silvicultural plan should be to maintain an old growth overstory in the vicinity of nest sites and communal roosts. Development and maintenance of potential eagle habitat is as important as protection and maintenance of habitat currently used by eagles.

1.321 MAINTAIN FORESTED HABITAT THAT IS PRESENTLY USED BY EAGLES

Habitat loss is currently the most significant threat to bald eagle populations in the 7-state recovery area. The increasing disappearance of old growth stands makes it imperative that existing habitat be protected. In some cases special actions must be taken to maintain existing habitat.

1.3211 PROHIBIT LOGGING OF KNOWN NEST TREES, PERCH TREES, AND WINTER ROOST TREES

Trees used by eagles should be clearly identified and protected from logging. In addition, trees that provide wind breaks, that visually shield eagles from disturbances, or that are needed for long-term viability of eagle use areas must be maintained. Trees with unoccupied nests in suitable habitat and trees which formerly had nests should also be protected because these sites are sometimes used after several years of abandonment and will be important in providing habitat for expanding populations.

1.3212 MANAGE TIMBER STANDS USED BY EAGLES TO PREVENT INSECT INFESTATIONS WHERE APPROPRIATE

> Pine beetles (<u>Dendroctonus</u> spp.) are a possible threat to eagle habitat in certain areas within the Pacific recovery area. Control of stocking level is perhaps the best method available to prolong the life and health of currently suitable nesting, roosting, and perch trees. Removal of true firs and other understory species in pine forests can reduce stress and susceptibility of pines to bark beetle infestation. Old growth Douglas-fir trees are not necessarily high risk, they often survive for centuries on extremely limited branch systems (J. Franklin, pers. comm.). Caution should be used in salvaging bark beetle infested stands which have value to eagles.

1.3213 WHERE APPROPRIATE, STABILIZE STREAMBANKS AND SOLLS TO PROTECT NESTING, PERCHING AND ROOSTING TREES

> Erosion may eliminate suitable nesting, roosting, and perching trees along some rivers. Riprap and other forms of streambank stabilization should be considered if water level manipulations cannot reduce erosion.

Soil stabilization may be an effective tool to prolong the life of traditional nest sites in areas with severe erosion. Revegetation of disturbed areas should be initiated immediately, and where warranted brush check dams should be installed in gully situations. If supporting soil for a nest tree's root system is being lost to erosion, any practical method that will halt the action should be used.

1.3214 DEVELOP CONTINGENCY PLANS TO PROTECT NESTING AND WINTERING HABITAT IN EMERGENCIES, E.G., WILDFIRE PRE-ATTACK OR PREVENTION PLANNING

> Fire management plans should contain 2 types of recommendations regarding important bald eagle habitat. First, the plan should identify nests, roosts, and important perch trees that should be priorities for fire suppression. Second, the plan should include guidelines for minimizing disturbance to eagles and their habitat during fire suppression efforts.

1.3215 PRESERVE SNAGS IN EAGLE USE AREAS

All snags that are potential eagle perches within 500 m (1650 ft) of nests or roosts should be preserved. In addition, all snags utilized for roosting or foraging within nesting territories or communal roosts should be protected.

1.322 MAINTAIN AND DEVELOP NESTING AND ROOSTING HABITAT FOR FUTURE USE BY EAGLES

Recovery of the bald eagle in the Pacific recovery area depends on the availability of habitat for an expanding breeding population. Suitable (see 1.12) but currently unused habitat must be protected and maintained in a favorable condition, especially in the Target Recovery Territories (Appendix A) but also at other appropriate locations. In addition, managers should maintain and develop replacement habitat near currently used habitat, especially if existing perches, nesting trees, roosting stands, or foraging opportunities are in a precarious or deteriorating condition. Managers should plan to develop potential nesting and roosting stands at eagle use areas in a series of successional stages to ensure the presence of suitable habitats for many years. In some cases, sctive steps should be taken to ensure the long term suitability of such habitats.

1.3221 MANAGE YOUNG TREE STANDS TO MEET DESIRED PHYSICAL CHARACTERISTICS

: Eagles prefer large trees with an open branching pattern. This growth form cannot be produced in extremely dense stands. Control of stocking levels can be used to promote growth of trees with the desired open branching pattern, to create openness around potential nest and perch trees, and to stimulate large tree growth.

Silvicultural prescriptions should be developed for maintaining or accelerating growth of suitably formed nest, perch, and roost trees to ensure their long term availability.

1.3222 FLANT NEW TREES IN POTENTIAL BALD EAGLE USE AREAS DEVOID OF TREE REPRODUCTION

The lack of suitable perches, nesting sites, and roost sites may be a factor limiting the abundance of eagles in some areas. Establishment of new perches can not only increase the amount of suitable habitat but also attract eagles away from potentially hazardous situations (power lines, roads, shooting).

Tree planting is especially suitable along the shorelines of newly established reservoirs. Most new plantings should be within 0.5 km (0.3 mi) of a shoreline. It may also be advisable to establish windbreaks near new stands intended to be roosts. Cottonwoods, sycamores, maples, and ponderosa pine would be the best species to plant because of their rapid growth rates and suitable physiognomy.

51

1.3223 PROVIDE ARTIFICIAL PERCHES AND NEST STRUCTURES WHERE NATURAL SITES ARE NOT AVAILABLE

Do not depend on artificial perches to be effective replacements for natural wooded habitat. Artificial perches on bald eagle wintering areas have been only occasionally successful. Experiment with unique perch designs, especially near feeding sites in treeless areas. Artificial structures should be considered when awaiting growth of tree perches. Artificial structures for nesting sites have had mixed success. They may be useful to reinforce existing natural nests with inadequate support or to provide a replacement nest in a territory where a nest has blown out. They are of limited use in areas where no natural nests have existed.

1.3224 CREATE SNAGS WHERE SUITABLE PERCH TREES ARE NOT AVAILABLE

Interspersed snags in coniferous stands seem to provide the openness that eagles prefer. Where snags number less than 5 per acre within a nesting territory, the territory management plan (see 1.25) should consider creating large snags close to eagle use areas. It is probably not necessary to deliberately create snags in deciduous stands because eagles readily use live trees when dead trees are not available. It is best to allow trees to attain maximum size before girdling, blasting, torching, or inoculating. Girdling is probably the most economical and effective technique, but topping and limbing have also proven effective in creating desired perch sites. Cull trees, which do not have commerical value, can be selected for girdling.

1.33 RESTRICT HUMAN DISTURBANCE AT FAGLE USE AREAS

Human activities are known to disrupt eagle activity patterns and in some cases cause reproductive failure. In spite of this, many eagles nest and winter near human population centers. Many types of human disturbances at the right distances are compatible with eagles. Regulation of human activity is a critical part of eagle habitat management.

1.331 ESTABLISH BUFFER ZONES AROUND NEST SITES

. 1

Buffer zones should be established for individual nest territories based on the location of nest trees, perch trees, and flight paths, as well as stand characteristics, known individual tolerances, and weather patterns.

Until site specific plans are available or until guidelines can be developed by local groups or agencies, guidelines prepared by the U.S. Fish and Wildlife Service Region I should serve as minimum protective measures.

1.332 EXCLUDE LOGGING, CONSTRUCTION, HABITAT IMPROVEMENT, AND OTHER ACTIVITIES DURING CRITICAL PERIODS OF EAGLE USE

Picnicking, camping, blasting, firearm use, timber harvest, and low level aircraft operations should not be allowed within 400 m of nests and roosts during periods of eagle use. These activities should also be regulated up to 800 m from nests and roosts where eagles have line-of-sight vision. Critical nesting periods vary throughout the recovery area but generally fall between 1 January and 31 August. Key wintering areas, need protection from disturbance from approximately 15 November to 15 March.

1.333 PROHIBIT BUILDING CONSTRUCTION NEAR KEY BALD EAGLE NESTING AND WINTERING HABITATS

Permanent structures that are occupied during periods of eagle use should not be constructed near nesting or winter use areas. Buildings should be no closer than 400 m from the shorelines of feeding waters. Wooded summer campgrounds and small farming operations are probably compatible with winter eagle use, but campgrounds in most wintering areas should be closed from November to March.

53

1.334 PROHIBIT VEHICLE TRAFFIC AT SENSITIVE KEY AREAS DURING PERIODS OF EAGLE USE

Snowmobile, boat, and automobile traffic can disturb eagles in some areas. Roads should be closed to protect nesting areas, when appropriate, and snowmobiles should be prohibited from traveling near nesting and wintering habitat during periods of eagle use.

Land use plans should guide human activity away from important feeding perches and prevent human disturbance in nesting and roosting areas.

Buoys and booms can be used to channel boat traffic away from sensitive eagle use areas. At Shasta Lake, California, this approach, in combination with shoreline signing and recreational maps, has reduced conflicts between eagles and recreationists (Detrich pers. comm.).

The impacts of automobile traffic can be lessened if people remain in their vehicles. In addition, eagles may grow accustomed to the presence of humans at certain locations. Appropriate signs at these viewing points could educate the viewing public about bald eagle ecology and management. 2. INVENTORY, MONITOR, AND RESEARCH BALD EAGLE HABITAT AND POPULATIONS TO OBTAIN ADEQUATE KNOWLEDGE FOR DEVELOPING AND EVALUATING MANAGEMENT PROGRAMS

. .

Effective implementation of many tasks in this recovery plan is contingent upon gathering additional information about bald eagle populations, habitat, and behavior. Some information gaps can be filled by continuing agency inventory and monitoring programs, whereas others will require specially designed research projects

2.1 COLLECT INFORMATION NECESSARY TO MANAGE AND SECURE HABITAT

Information needed to manage and secure bald eagle habitat includes data on the habitat itself as well as how bald eagles use and are affected by its components.

2.11 MONITOR THREATS AND CHANGES TO HABITAT

All of the habitats used by eagles in the Pacific recovery area are subject to change. Changes can be natural or human-caused, and they can be beneficial or detrimental. Habitats must be monitored regularly and frequently so that effective action can be taken to counteract changes that will threaten the suitability of habitat for eagles.

2.111 MONITOR THREATS AND CHANGES TO NESTING TERRITORIES

Successful nest site management requires information on factors (e.g. human disturbance, habitat alteration) that might threaten successful reproduction. These threats should be evaluated at least annually so that appropriate and timely management actions can be taken.

2.112 MONITOR THREATS AND CHANGES TO FORAGING AREAS

Food sources are important components of bald eagle habitat. Many factors influence food sources, but their relationship to bald eagles is not always immediately apparent. For example, the availability of waterfowl in a wintering area may be related to rainfall in Canada the previous year. Similarly, salmon availability may be related to water development projects more than 1000 km away or to factors affecting salmon reproduction more than 3 years previously. Because of these subtle but important influences, it is important that food supplies be monitored regularly to detect changes that may adversely affect bald eagles.

ΞΞ

2.113 MONITOR THREATS AND CHANGES TO COMMUNAL ROOSTS AND ASSOCIATED WINTER HABITAT

The physiological condition of eagles and their subsequent reproductive potential depend greatly on habitat conditions during winter, the most stressful period of the year. The effects of all changes in winter habitat must be closely monitored and evaluated.

2.114 MONITOR THREATS AND CHANGES TO HABITAT FOR MIGRATING AND NONBREEDING EAGLES

Presently less is known about the habitat requirements of migrating bald eagles and summering subadults than any other components of the population. Obviously, survival of subadults is crucial to future reproduction of the species, and the condition of birds during migration is an important element in survival. Habitat requirements of subadults and migrating eagles must be identified (see 2.124) and monitored to enhance survival during all stages of their lives.

2.2 DETERMINE HABITAT FACTORS THAT INFLUENCE NUMBERS AND PRODUCTIVITY OF EAGLES

The relationships of baid eagles with their habitat are only beginning to be understood. More information is needed on what habitats are used, and more intensive analyses are needed to understand the relative importance of specific habitat components.

2.121 COMPLETE THE IDENTIFICATION OF IMPORTANT CHARACTERISTICS FOR NESTING TERRITORIES

Physical and biological characteristics of bald eagle nesting habitat should be measured to determine the suitable conditions for breeding eagles. This information will allow managers to maintain existing habitat, identify and manage potential habitat (see 1.12), and identify threats to such habitat.

2.122 COMPLETE THE IDENTIFICATION OF IMPORTANT CHARACTERISTICS FOR COMMUNAL ROOSTS

17

. .

Physical and biological characteristics of communal night roosts should be measured so that both existing and potential habitats can be managed for the appropriate characteristics. Recent studies (Stalmaster and Gessaman 1984, Keister et al. 1985) have indicated that favorable microclimate is an important factor in making roosts suitable for eagle use. However, the specific habitat characteristics associated with these conditions have not been identified.

2.123 DOCUMENT DIETS AND FORAGING REQUIREMENTS OF BALD EAGLES AND REQUIREMENTS OF THEIR MAIN PREY SPECIES

Successful recovery and management of eagles requires a knowledge of their food habits and the factors influencing the abundance and availability of their prey. Because eagle diets vary considerably throughout the 7-state recovery area, this information must be gathered for several different situations. Characteristics of foraging areas must be identified, and the conditions and timing of prey availability must be documented.

2.1231 DOCUMENT DIETS, MOVEMENTS, TERRITORY SIZE, AND FORAGING BEHAVIOR OF BREEDING EAGLES

More information is needed on the basic requirements of breeding eagles including size of territories and foraging areas, daily movements, time budgets, and foraging behavior. Such information can be obtained through radio-telemetry studies of breeding adults.

2.1232 DOCUMENT MOVEMENTS, DIETS, AND HABITAT USE OF JUVENILE BALD FAGLES

The first year of life for long-lived species of animals is usually the most critical time for survival, and survival of juvenile bald eagles may be a critical factor in the status of populations. Documentation of movements, foraging behavior, and habitat utilization of these birds through telemetry studies is important to determine the requirements of this segment of the population.

2.124 IDENTIFY MIGRATORY PATHWAYS AND HABITAT REQUIREMENTS OF MIGRATING BALD EAGLES

Only a few migratory pathways used by bald eagles in the Pacific recovery area are well understood. More information is needed on the nesting locations of eagles that winter in the Pacific recovery area and the wintering locations of eagles that nest in the 7 Pacific states. Very little information is available on diets, habitat use, and foraging requirements of migrating eagles, yet information on such factors is prerequisite to successful protection and management. Intensive banding programs, satellite telemetry, conventional telemetry, and trace element analysis of feathers are possible ways to acquire information on migratory pathways.

2.125 INVESTIGATE THE INFLUENCE OF HUMAN DISTURBANCE ON BALD EAGLES

Human disturbance has been suggested as a major factor in the welfare of breeding and wintering populations. Information is available on the influence of humans on flight behavior of wintering bald eagles but not on the long term behavior and general condition of the birds. The influence of humans on breeding birds has been noted but is poorly understood. The tolerance levels of eagles for various human activities must be ascertained so that agencies can restrict certain activities to specified distances from eagle use areas. Case histories that provide information on eagle responses to various types of perturbations should be compiled and analyzed, and the results should be disseminated to managers. Radio+telemetry studies of heart rate changes during various levels and types of disturbances may provide additional valuable information.

2.2 ASSESS THE POPULATION STATUS OF BALD EAGLES AND FACTORS INFLUENCING POPULATION STABILITY AND EXPANSION IN THE RECOVERY AREA

A better understanding of bald eagle population dynamics is a prerequisite to evaluating whether the species has attained the recovery goal and ascertaining whether the recovery goal should be refined. A clear understanding of population processes is also necessary to identify the actions needed to prevent further population declines and to prioritize approaches that will most effectively promote population increases.

2.21 COLLECT INFORMATION TO ASSESS POPULATIONS AND PRODUCTIVITY

. 1

The status of populations must be monitored both during and after the recovery process in order to track progress towards recovery and to identify population declines before it is too late to identify and correct factors responsible for them.

2.211 INVENTORY THE BREEDING POPULATION AND DETERMINE ANNUAL PRODUCTIVITY

Annual surveys of all known nesting territories in each state should be conducted to determine occupancy, activity, success, and productivity of these sites. Such information collected over several years will establish trends in the number of breeding pairs, nest success, and overall productivity in each state. Surveys should be conducted consistently and similarly in each state to properly assess the status of the breeding population. Because population and productivity estimates from these surveys will be used to evaluate whether or not the eagle should be delisted, complete annual surveys are crucial to the recovery process.

2.212 IDENTIFY AND MONITOR THE SIZE AND DISTRIBUTION OF WINTERING POPULATIONS

Numbers of eagles should be monitored periodically by coordinated counts. Significant assemblages of wintering eagles should be censused at least annually. States should be encouraged to conduct complete statewide counts as frequently as budgets will allow. Coordinated counts should be conducted simultaneously in all states within the recovery area every 3rd year beginning in 1986. Systematic count routes should be established in all states to allow assessment of population trends. In addition, new areas should continue to be surveyed to identify additional eagle use areas. It is important that surveys for new areas be conducted at various times throughout the winter because some areas are intensively used for only a short time period.

2.213 LOCATE AND STUDY NONBREEDING BALD EAGLES DURING THE BREEDING SEASON

Little is known about the nonbreeding segment of the population during the breeding season. Few subadults are ever observed during the spring and summer months. Information about the numbers and habitat use of nonterritorial eagles, both adult and subadult will be essential for determining the status of the species.

2.214 DOCUMENT MORTALITY RATES OF ADULT AND SUBADULT EAGLES

One of the most critical missing links in the establishment of recovery goals is our lack of information on eagle survival and mortality rates. Hypothetical modeling of eagle populations (Grier 1980) has shown that survival rates are possibly the most critical component of eagle population dynamics. They are essential to assess the status and trends of eagle populations. Banding and band recovery programs may be a means to acquire data on mortality rates.

2.22 DETERMINE FACTORS INFLUENCING BALD EAGLE POPULATION STABILITY AND EXPANSION

Further investigations are needed to identify factors that depress eagle populations or inhibit them from increasing. Expanded monitoring programs are needed to assess the relative importance of mortality factors and to ascertain levels of contaminants known to be hazardous to eagles. In addition, research on genetics and behavior is needed to more fully understand the requirements and potential for recovery.

2.221 DETERMINE THE MAIN CAUSES OF EAGLE MORTALITY

An understanding of the factors causing eagle deaths is essential if managers are to reduce mortality. Causes of mortality should be identified for each population in the Pacific recovery area. All dead eagles found in the 7 states should be collected, necropsied at the National Wildlife Health Laboratory, and analyzed at the Patuxent Wildlife Research Station or other qualified institution. Existing data suggest that illegal shooting continues to be a major cause of eagle mortality. More information is needed on the type of individuals that shoot eagles, where they shoot them, why they shoot them, and what steps can be taken to reduce shooting.

2.222 MONITOR LEVELS OF POILUTANTS AND THE EFFECTS THEY MAY HAVE ON FAGLES

1 A

, • •

Environmental pollutants can have severe effects on bald eagle populations by causing mortality or, more subtly, by hindering reproduction or behavior.

Lead poisoning is a potentially significant cause of bald eagle mortality in the Pacific recovery area. Areas where wintering eagles depend on waterfowl for food should be monitored closely for instances of eagle lead poisoning. Specific studies should be designed to further document the impact of lead on eagle populations as well as to identify the areas where use of lead shot needs to be restricted.

Recent research has documented levels of organochlorine pesticides that may have caused eggshell thinning and reduced reproduction in pairs nesting on the Lower Columbia River (Anthony, Oregon Cooperative Wildlife Research Unit, Corvallis, pers. comm.). In addition, pairs nesting in the Klamath Basin may be adversely affected by elevated levels of chlorinated hydrocarbons (Frenzel 1984). The extent and severity of such hazards in other parts of the Pacific recovery area are unknown. Eagle carcasses, prey, and eggs should be analyzed for pollutants, and blood of both nestling and adult eagles should be collected and Analyzed. Collection of blood samples for contaminant analysis should be coordinated with sampling for genetic information (see 2.223). In areas where reproductive failure is high, studies should be funded to determine if pollutants are the major problem.

2.223 IDENTIFY BEHAVIORAL AND GENETIC CONSTRAINTS THAT MAY INFLUENCE RATES OF RE-POPULATION AND THE SUCCESS OF REINTRODUCTION EFFORTS

> A better understanding of intraspecific and interspecific behavior is needed to understand the carrying rapacity of eagle habitat as well as the potential for population expansion. Philopatry, pair bond duration, and nest site affinity have not been adequately dominented. Knowledge of these aspects of eagle behavior will provide insight into why certain nests are used annually and others only sporadically.

Much of our inability to understand eagle behavior stems from our inability to recognize individual birds. Voice prints (sonograms) may be one means of identifying individuals and investigating eagle behavior. The feasibility of this technique and its application to the field should be further investigated. ì.

The genetic relationships of bald eagles inhabiting the Pacific states are also unknown. Such relationships influence if and how translocations (see step 4.2) should be conducted. Blood samples should be acquired from various breeding populations for electrophoretic analyses to delineate any possible genetic differences among bald eagle populations. This sampling sould be carried out in conjunction with sampling for contaminants (see 2.222).

3. DEVELOP AND MAINTAIN PUBLIC AWARENESS AND LAW ENFORCEMENT PROGRAMS

Eagle populations cannot be mustained without cooperation from members of the public. Education is an important tool to promote cooperation from the majority of citizens, but laws and regulations must be adopted and enforced to effect compliance by the more reluctant individuals.

3.1 DEVELOP PUBLIC INFORMATION PROCEAMS

Successful recovery of the bald eagle hinges on the public's awareness of the problems faced by the species and their commitment to solve them. Strong educational programs will help to foster that commitment and awareness.

It is important that mitizens develop an appremiation for angles and their habitat. Advising people not to kill angles is the first step: providing an understanding of eagle habitat meeds and food relationships is the second step.

3.11 MAINTAIN AND DEVELOP GENERAL INFORMATION PROGRAMS FOR BROAD PUBLIC DISTRIBUTION

Brochures, posters, alide programs, press release kits and news releases can be used to presente interest and support for bald engle management programs. A general brochure and poster describing key points about bald engle biology could be distributed to schools throughout the recovery area.

relevision spots have been effectively used to draw attention to management efforts and needs. Badio and relevision stations are required by FCC regulations to air public service information. Taped one-minute spots should be prepared for this purpose. Non-government groups (e.g., Anheuser-Busch, Seagram's, General Wine and Spirits Company, Southland Corporation, and Eagle Valley Environmentalists) have been active in this area, and should be encouraged to continue their efforts. A clearinghouse should be established to make these materials available to the media and groups that will use them. May public affairs materials developed by a single agency or organization should be distributed to all other interested organizations in the Parific recovery area.
3.12 DEVELOP SPECIFIC INFORMATION PROGRAMS FOR COMMUNITIES AND GROUPS IN EAGLE AREAS

Eagle management programs cannot succeed without local support. Public information programs geared for specific areas can help elicit awareness and support for eagle management efforts. Local bald eagle conferences have been successful in developing a community's appreciation for eagles. Such meetings can serve to bring citizens, county, state, and federal agencies together to highlight problems and to discuss solutions. Eagle viewing and interpretive areas can provide a unique experience for school children and the general public. Opportunities should be sought for viewing areas where access can be controlled and disturbance risks minimized. Audio visual packages for schools and posters for general community viewing are helpful information aids. Communities in some areas should be informed of the economic advantages of encouraging "eagle watching".

3.13 FUBLICIZE REWARD PROGRAMS AND CONVICTIONS OF EAGLE LAW VIOLATORS

The National Wildlife Federation offers a reward for information leading to the conviction of persons who have shot eagles. Additional reward programs have been established in several of the 7 states in an effort to arrest and prosecute poachers of both endangered species and game animals.

Convictions of those who shoot eagles can serve as deterrents for other such incidents only if there is adequate publicity. The media should be contacted about any convictions to ensure maximum coverage. Special interest stories should be written for state wildlife magazines describing any such incidents.

3.14 DISSEMINATE INFORMATION ON THE HANDLING OF DEAD AND INJURED EAGLES

Proper treatment of injured eagles can save the lives of many birds and provide managers important information about mortality causes. It is important that persons know the location of nearest authorized rehabilitation centers. Proper disposition of dead eagles can allow biologists to identify mortality causes and potentially hazardous situations. 3.15 ESTABLISH PUBLIC INFORMATION PROGRAMS DESIGNED TO REDUCE BALD EAGLE MORTALITY

> Educational programs and news releases should identify the reasons behind protective regulations and laws. The public should be informed about the plight of our National Symbol and ways they can help reduce bald eagle mortality. All hunter-safety education programs should include information on bald eagle biology and laws relating to eagles. Public education programs can also be presented to conservationoriented clubs and at public meetings.

.3.15 DEVELOP A "LAND ETHIC" AMONG LANDOWNERS OF BALD EAGLE HABITAT

Most landowners value eagles that occur on their lands. Many of these landowners would cooperate in efforts to maintain adequate eagle habitat, if they were informed of the needs and significance of eagles that occur on their lands. Special information packets and programs should be developed to promote maintenance of eagle habitat on private lands.

3.2 PROVIDE FOR ADEQUATE STATE AND FEDERAL EAGLE PROTECTION EFFORTS

Eagles are now protected by a variety of state and federal laws including the Migratory Bird Treaty Act of 1918, the Lacey Act, the 1940 Bald and Golden Eagle Protection Act, and the Endangered Speciar Act of 1973, as amended. Law enforcement agents and agency lawyers must have latitude to prosecute specific cases under the most appropriate law. The Division of Law Enforcement, U.S. Fish and Wildlife Service, and individual state enforcement agencies should work in close cooperation while investigating and proseruting illegal activity involving bald eagles.

3.21 PROMOTE AND ENFORCE REGULATIONS WHICH PROVIDE CIVIL PENALTIES FOR SHOOTING BALD EAGLES

Regulations must clearly identify civil penalties. Supplemental enforcement manpower may be needed where eagle concentrations occur near human population centers. Both state and federal wildlife enforcement personnel should make judges and prosecutors aware of the significance of eagle mortality from shooting and should promote penalties which recognize the value of the bald eagle so as to deter future violations of laws involving eagles. 3.22 PROMOTE AND ENFORCE REGULATIONS INTENDED TO PREVENT ACCIDENTAL TRAPPING OF BALD EAGLES

> Eagles are occasionally caught in traps set for furbearers and/or predators when a trapper has used exposed bait as a lure. Trapping regulations should prohibit exposed baits, lack of spacers between trap jaws, and other trapping methods that contribute to accidental capture and mortality of eagles. Stronger enforcement of existing trapping regulations is also needed to reduce this mortality factor.

3.23 ENCOURAGE SPECIAL LAW ENFORCEMENT PROGRAMS TO END THE ILLEGAL TRADE IN EAGLE PARTS

The high commercial black market value of eagle parts has contributed to considerable eagle mortality in recent years. Several sophisticated operations involving a large number of dead eagles and/or parts of eagles have been uncovered in recent years. A continuing plan should be developed by both federal and state enforcement agencies to combat these illegal activities. Enforcement should include appropriate undercover or "sting-type" operations.

3.24 PROMOTE AND SUPPORT IMPROVED ENFORCEMENT OF EAGLE PROTECTION LAWS

Law enforcement and judicial personnel should be aware of the significance of bald eagles and any illegal activity involving them. Biologists should keep law enforcement personnel informed of nest locations, roosts, and eagle foraging areas as well as potential threats in these areas.

Feather and blood identification keys should be developed and distributed to appropriate personnel to facilitate apprehension of persons involved in illegal feather sales. Raptor identification classes, like those developed by the National Wildlife Federation's Raptor Information Center, should be offered to all state and federal law enforcement officers.

- 3.25 EXPAND AND ENCOURAGE REWARD PROGRAMS TO ASSIST IN IDENTIFYING AND PROSECUTING EAGLE LAW VIOLATIONS
 - Programs like the National Wildlife Federation's reward system should be continued and expanded. State reward programs to encourage citizens to report violatons of wildlife laws have been successful in California and Idaho and should be expanded to discourage shooting of birds of prey, especially bald eagles.

3.26 DEVELOP CONSISTENT AND ENFORCEABLE INTERPRETATIONS OF LAWS AND REGULATIONS PROTECTING BALD EACLE HABITAT

1 1

. :,-

Inconsistent interpretations of habitat regulations have resulted in a lack of guidance for resource managers responsible for eagle habitat protection. Standardized management guidelines should be developed to assist federal, state, and local officials in making decisions regarding proposed alterations of eagle habitat, such as commercial logging and development.

3.3 PROVIDE SEASONAL SURVEILLANCE AT SELECTED HABITATS WHERE EAGLES ARE VULNERABLE TO HUMAN DISTURBANCE OR HARASSMENT

At some nest sites, roosting areas and other use areas, bald eagles may be vulnerable to detrimental disturbances by people walking, in land vehicles, or in boats. Assigning guards to nest or roost areas at critical times of the year may be necessary to avert disturbances that could result in birds being killed or abandoning a nest or roost site. Responsibilities of site attendants might include: identifying sources of disturbance, providing local public relations, discouraging people from entering especially sensitive areas, summoning law enforcement aid in emergencies, and collecting biological data.

4. AUGMENT BALD EAGLE POPULATION LEVELS THROUGH MANAGEMENT AND PROTECTION

Direct manipulation of population levels involves both reduction of mortality and population augmentation. Reduction of unnatural (human related) mortality should be the main thrust of recovery efforts. Population augmentation programs should be a low priority at this time.

4.1 REDUCE BALD EAGLE MORTALITY

Perhaps the most important element necessary to reduce humanrelated mortality is a well-executed public education program that identifies protective laws pertaining to the bald eagle and ecological reasons for maintaining viable populations (see Part 3.1).

4.11 REDUCE BALD EAGLE MORTALITY ASSOCIATED WITH SHOOTING AND TRAPPING

Shooting continues to be the most common cause of bald eagle mortality. Uncontrolled shooting could easily lead to the decimation of nesting and/or wintering populations in local areas. Aggressive law enforcement and public information and education programs (see Sec. 3.2) will be the most effective way to reduce shooting and trapping mortality. It also may be necessary to control or regulate public access in areas where shooting or trapping problems have been identified. Roads should be closed in some areas during critical periods of eagle use. Nest wardens may be required at nests near human population or recreation centers (see 3.3). Habitat management techniques (see 1.32) should also be used in these cases to keep eagles away from hazardous situations.

4.12 REDUCE EXPOSURE OF BALD EAGLES TO CONTAMINANTS

The ban on DDT in the early 1970's may have been the most significant step taken to date to halt the decline of bald eagle populations. Unfortunately, however, other life-threatening chemicals continue to be used. There is increasing evidence that organochlorines are depressing eagle productivity in some areas to the extent that local nesting populations may be unable to replace themselves over the long term. The presence of other harmful contaminants (e.g., lead, organophosphates) could lead to the extirpation of eagles from local areas. Pesticide application and toxic waste disposal should be monitored closely by the appropriate regulatory agencies to assure that these contaminants are not released into bald eagle use areas. All recovered eagle carcasses should be analyzed to ascertain contaminant levels and the actual contribution that contaminants made to the death.

4.121 RESTRICT USE OF POISONS DETRIMENTAL TO EAGLES IN PREDATOR AND RODENT CONTROL PROGRAMS WITHIN IMPORTANT BALD EAGLE NESTING AND WINTERING HABITAT

Rodent and jack rabbit control with strychnine has been identified as a recurring cause of bald eagle mortality, and compound 1080 has been responsible for at least one bald eagle death in the West (National Wildlife Health Laboratory 1985). Extreme caution should be taken whenever control programs are initiated in traditional eagle use areas. If it is determined that bald eagles feed in the area, the control program should be disallowed or structured in such a way as to have no effect on eagles. Safer, alternative chemicals should be considered. If existing regulations are inadequate to protect the bald eagle, new legislation or regulations should be encouraged.

4.122 PROMOTE THE USE OF NONTOXIC SHOT FOR WATERFOWL HUNTING.

Studies have shown that bald eagles are very susceptible to lead poisoning. It is most likely to be a problem in crowded hunting areas where concentrations of waterfowl occur. Nontoxic shot zones have been identified (51 FR 409, Jan. 6, 1986), and efforts should be continued toward their implementation as soon as possible. Agencies should cooperate with user groups to develop nontoxic shot programs regionwide.

4.123 DEVELOP CONTINGENCY PLANS TO DEAL WITH DISEASE AND CONTAMINANT EMERGENCIES

Even the best regulations will not avert sudden disease outbreaks, oil spills, or other contaminant emergencies that may threaten eagles. Plans should be developed that outline steps to detoxify the environment, prevent eagles from becoming exposed to contaminants, and care for sick birds in the event that they do.

6 =

4.13 REDUCE IMPACT AND ELECTROCUTION MORTALITY ASSOCIATED WITH POWER LINES

Significant steps have been taken by power companies in the Pacific recovery area to prevent raptor electrocution by using innovative construction techniques. Power companies should be encouraged to continue policies for distribution line and transformer construction that will minimize impact and electrocution of raptors. Such approaches should also apply to wind-energy developments in bald eagle habitat. A good working relationship should be cultivated between wildlife agencies and power companies. News releases should be encouraged identifying any positive action taken by power companies to prevent raptor electrocutions and collisions.

4.131 REPLACE OR MODIFY PROBLEM POWER LINE STRUCTURES, USING ACCEPTED DESIGNS

Individual power line structures that have electrocuted eagles should be modified or replaced following accepted guidelines to prevent raptor electrocutions. Any other similar structures in areas used by bald eagles should also be modified. State agencies should establish an information exchange system concerning poles that have been associated with raptor mortalities as well as poles that are regularly used by eagles. All information on electrocutions and pole use should be forwarded to these state agencies, and they, in turn, should regularly make this information available to the power companies and agencies responsible for administering rights-of-way.

New lines in areas used by eagles should consist entirely of electrocution-proof structures, and electrocution-proof structures should be used to replace old deteriorating structures in existing lines. These guidelines should be followed by land management agencies in issuing new rights-of-way or in renewing existing permits.

4.132 RESTRICT POWER LINE CONSTRUCTION WITHIN IDENTIFIED FLIGHT LANES NEAR WINTER ROOSTS

Power lines should not be constructed within 1.5 km (1 mi) of communal roosts. Eagles use these areas during fog, strong winds, and poor light conditions; and the potential for collision is high. Corrective measures should be implemented in any areas where repeated collisions (more than 1) are documented.

4.14 REHABILITATE SICK, INJURED, AND ORPHAN BALD EAGLES FOR RELEASE INTO THE WILD

Rehabilitation efforts are a low priority in the overall recovery effort. However they can serve an important role in identifying mortality factors and in educating the public. Some rehabilitated eagles can be released back into the wild, and others can be used in captive breeding programs. Although rehabilitation can reduce individual mortality, rehabilitation efforts may have negligible effects on overall population levels.

Rehabilitation should be authorized at a few well-qualified centers instead of numerous small facilities. The public and agency personnel should be made aware of the existence and purpose of approved rehabilitation centers. Through a coordinated information program, rehabilitation personnel should be kept informed of recent technical advances. Bald eagles that are fully rehabilitated should be released into suitable areas using appropriate methods. Success of the rehabilitation efforts should be assessed through banding, color marking or telemetry. Close cooperation with other bald eagle workers and active public education programs should be encouraged to evaluate rehabilitation efforts.

4.2 AUGMENT BALD EAGLE POPULATIONS IN SPECIFIC GEOGRAPHIC AREAS USING TESTED MANAGEMENT TECHNIQUES

Habitat management and protection should be the main focus of recovery efforts. However, if it is determined that the natural productivity of selected bald eagle populations is below the potential or when suitable habitat is unoccupied, manipulatory techniques should be implemented. In both of these cases, the guidelines in the U.S. Fish and Wildlife Service Bald Eagle Translocation Policy should be followed.

4.21 ENHANCE PRODUCTIVITY OF PAIRS NESTING IN THE WILD

Foster-parent programs can increase production of some pairs, depending on the factors responsible for reproductive failure. These techniques are usually costly and should only be used in situations where enhanced reproduction is critical for recovery of a remnant population.

71

Fostering can be appropriate if a nesting pair historically has failed to hatch eggs, or if eggs hatch but nestlings die. Young of an appropriate age can be transplanted into nests of nonproductive pairs from captive sources or from healthy populations. Nesting attempts in which one member of a pair has died or in which fratricide is likely to occur should be priority sources of foster nestlings. Fostering can also be used to assist nesting attempts where fratricide limits production. In these cases the weakest eaglet from a nest with two or more nestlings could be removed, raised in captivity, and returned to its own nest at an appropriate age.

4.22 ESTABLISH NEW BREEDING POPULATIONS IN SUITABLE HABITAT BY TRANSLOCATION

Areas with potential bald eagle nesting habitat should be evaluated for re-introduction potential (see 1.12). If it is determined that establishment of a nesting population is feasible and will benefit the species, captive-produced young or nestlings from healthy breeding populations should be "hacked" using acceptable techniques (Engel and Isaacs 1981).

4.23 DEVELOP CAPTIVE BREEDING PROGRAMS TO SUPPLEMENT NATURAL POPULATIONS WHEN NEEDED

Wild populations may not be capable of supplying birds for all hacking and fostering efforts indefinitely. If shortages of birds occur in the future, captive-bred young could be used in hacking programs to augment or restore some eagle populations in the Pacific recovery area. . .

- Ait, K. L. 1980. Ecology of the breeding bald eagle and osprey in the Grand Teton - Yellowstone National Parks Complex. M.S. Thesis. Montana State Univ., Bozeman. 95 pp.
- American Ornithologista' Union. 1983. Checklist of North American birds. 6th ed. American Ornithologists' Union, Baltimore, MD. 877 pp.
- Anderson, R. J., and A. M. Bruce. 1980. Comparison of selected bald and golden eagle nests in western Washington. Pages 117-120 in Knight et al., (eds.), Proc. Wash. Bald Eagle Symp. Nat. Conserv., Seattle, WA.
- Anonymous. 1978. History comes alive in Eagle's master city plan. Idaho Statesman. # March 29. p. 3D.
- Anthony, R. G., and F. B. Isaacs. 1981. Characteristics of bald magle nest sites in Oregon. U.S. Dept. Int., Fish Wildl. Serv. for Crown Zellerbach Corp. City and State Unpubl. Manuscript 50 pp.
- Anthony, R. G. F. B. Isaacs, and R. W. Frenzel. 1983. Proceedings of a workshop on habitat management for mesting and roosting bald eagles in the western United States. Oregon State Univ., Corvallis. 68 pp.
- Anthony, R. G., R. L. Knight, G. T. Allen, B. R. McClelland, and J. I. Hodges. 1982. Habitat use by nesting and roosting bald eagles in the Pacific Northwest. Trans. N. Am. Wildl. Nat. Res. Conf. 47:332-342.
- Baird, S. F. 1838. Explorations and surveys for a railroad route from the Mississippi River to the Pacific Ocean. War Dept. Vol. IX. Birds. Washington, D.C.
- Belding, L. 1890. Land birds of the Pacific District. Calif. Acad. Sci. Occas. Pap. 2.
- Belisle, A. A., W. L. Reichel, L. N. Locke, T. G. Lamont, B. M. Mulhern, R. M. Prouty, K. B. DeWolf, and E. Cromartie. 1972. Residues of organochlorine pesticides, polychlorinated biphenyls, and mercury and autopsy data for bald eagles, 1969 and 1970. Pesticide Monitoring J. 6:133-136.
- Bendire, C. E. 1892. Life histories of North American birds. U.S. Natl. Mus. Spec. Bull. 1.
- Bertran, T. 1981. Lake Pillsbury bald eagle nest site stabilization. Memorandum dated June 8, 1981. U.S. Dept. of Agric., For. Serv., Upper Lake, CA. 1 p.
- Bird, W., Jr. 1981. Bowen Canyon habitat management plan. U.S. Dept. Int., Bur. Land Manage., Burley, ID. 22 pp.

- Bogener, D. J. 1980. Bald eagle inventory and management study for Shasta Lake Ranger District, U.S. Dept. Agric., For. Serv., Redding, CA. Unpubl. manuscript. 22 pp.
- Bolum, R. T. 1977. Artificial nest platforms for raptors. Raptor Res. 11:97-99.
- Bowles, J. H. 1906. A list of the birds of Tacoma, Washington, and vicinity. Auk 23:138-148.
- Broley, C. L. 1958. The plight of the American bald eagle. Audubon 60:162-163, 171.
- Brown, L., and D. Amadon. 1968. Eagles, hawks, and falcons of the world. McGraw Hill Book Co., NY.
- Buechner, M. K. 1953. Some biotic changes in the state of Washington, particularly during the century 1853-1953. Res. Stud. State Coll. Nash. 21:154-192.
- Burke, M. 1983. Bald eagle nesting habitat improved with silvicultural Danipulation in northeastern California. Pages 101-105 in Bird, D.M., N.R. Seymour, and J. M. Gerrard, (eds.), Biology and Management of Bald Eagles and Ospreys: Proc. 1st International Symp. on Bald Eagles and Ospreys. MacDonald Raptor Research Centre, McGill Univ., Montreal, Quebec.
- Camarena, A. M. 1978. Three Sisters bald eagle winter roost management plan. U.S. Dept. Agric., For. Serv., Yreka, CA. 100 pp.
- Clark, W. S., and M. LeFranc, (eds.). 1981. Many indicted in trafficking of bald eagles. Eyas 5(2):3.
- Conrad, E. 1979. Report on the distribution, abundance, population trends, and habitat requirements for the bald eagle on the lower Colorado River. Ariz. Game Fish Dept., Phoenix. Unpubl. manuscript. 26 pp.
- Coom, N. C., L. N. Locke, E. Cromartie, and W. L. Reichel. 1970. Causes of bald eagle mortality, 1960-1965. J. Wildl. Diseases 6:72-76.
- Cromartie, E., W. L. Reichel, L. N. Locke, A. A. Belisle, T. E. Kaiser, T. G. Lamont, B. M. Mulhern, R. M. Prouty, and D. M. Swineford. 1975. Residues of organochlorine pesticides and polychlorinated biphenyls and autopsy data for bald eagles, 1971-72. Pesticides Monitoring J. 9:11-14.
- Dawson, W. L., and J. H. Bowles. 1909. The birds of Washington. Vol. II: Occidental Publ. Co., Seattle, WA.
- Detrich, P. J. 1978. Bald eagle winter habitat study. Shasta, Trinity and Tehama Counties, California. U.S. Dept. Agric., For. Serv. Redding, CA. 37 pp.

Detrich, P. J. 1980. Pit 3, 4, 5 bald eagle study. U.S. Dept. Agric., For. Serv., Redding, CA. Unpubl. manuscript. 21 pp.

Detrich, P. J. 1981a. Historic range of breeding bald eagles in California. Unpubl. Manuscript. Redding, CA. 17 pp.

. . .

- Detrich, P. J. 1981b. Results of the California winter bald eagle survey, 1979-81. U.S. Dept. Int., Fish Wildl. Serv., Secremento, CA. 75 pp.
- Detrich, P. J. 1982. Results of the California winter bald eagle survey--1982. U.S. Dept. Int., Fish Wildl. Serv., Sacramento, CA. 16 pp.
- Dobler, F. C. 1983. The 1983 bald eagle survey for Washington. Washington Department of Game, Olympia.
- Dobler, F. C., and M. E. Dobler. 1982. The National Wildlife Federation midwinter bald eagle survey for Washington, 1982. Washington Department of Game, Olympia.
- Dunstan, T. C., and M. Borth. 1970. Successful reconstruction of active bald eagle nest. Wilson Bull. 82:326-327.
- Engel, J. M., and F. B. Isaacs. 1981. Bald eagle translocation techniques (draft). U.S. Dept. Int., Fish Wildl. Serv., Regional Endangered Species Office, Twin Cities, MN. 56 pp.
- Evermann, b. k. 1886. A list of the birds observed in Ventura County, California. Auk 5:344-351.
- Feierabene, J. S., and C. Myers. 1984. A national summary of lead poisoning in bald eagles and waterfowl. Natl. Wildl. Fed. report. 36 pp. plus appendixes.
- Fielder, P. C. 1982. Food habits of bald eagles along the mid-Columbia kiver, Washington. Murrelet 63:46-50.
- Fitzner, K. E., and W. C. Hanson. 1979. A congregation of wintering bald eagles. Condor 81:311-313.
- Forbis, L. A., B. Johnston, and A. M. Camarena. 1977. Bald eagle habitat management guidelines. U.S. Dept. Agric., For. Serv., San Francisco, CA. 60 pp.
- Fraser, J. 1981. The breeding biology and status of the bald eagle on the Chippewa National Forest. Ph.D. Diss. Univ. Minnesota, St. Paul. 235 pp.
- Frenzel, R. W. 1983. Spacing of nest sites and foraging areas of bald eagles. Page 18 in Anthony et al. (eds.). Proc. Workshop on Habitat Management for Nesting and Roosting Bald Eagles in the Western United States. Oregon State Univ., Corvallis.

75

- Frenzel, R. W. 1984. Ecology and environmental contaminants of bald eagles in southcentral Oregon. Ph.D. Thesis. Oregon State Univ., Corvallis, OR.
- Goold, J. W. 1981. Klamath bald eagle habitat management area. U.S. Dept. Agric., For. Serv. Klamath Falls, OR. 99 pp.
- Grier, J. W. 1980. Modeling approaches to bald eagle population dynamics. Wildl. Soc. Bull. 83:316-322.
- Grossman, M. L., and J. Hamlet. 1964. Birds of prey of the world. Clarkson N. Potter, Inc., New York, NY. 496 pp.
- Grubb, T. G. 1976. A survey and analysis of bald eagle nesting in western Washington. M.S. Thesis, Univ. Washington, Seattle. 87 pp.
- Grubb, T. G. 1980a. An evaluation of bald eagle nesting in western Washington. Pages 87-103 in Knight et al., (eds), Proc. Wash. Bald Eagle Symp. Nat. Conserv., Seattle, WA.
- Grubb, T. G. 1980b. Artificial bald eagle nest structure. Research Note RM-383. U.S. Dept. Agric., For. Serv., Rocky Mountain Forest and Range Experiment Station, Tempe, AZ. 4 pp.
- Hall, F. S. 1933a. Studies in the history of ornithology in the State of Washington (1792-1932) with special reference to the discovery of new species. Murrelet 14:27-36.
- Hall, F. S. 1933b. Studies in the history of ornithology in the State of Washington (1792-1932) with special reference to the discovery of new species. Part II. Murrelet 14:55-77.
- Hansen, A. J. 1977. Population dynamics and night roost requirements of bald eagles wintering in the Nookseck River Valley, Washington. Problem Ser., Huxley Coll. Environ. Stud. Bellingham, WA 31 pp.
- Harmata, A. R. 1984. Bald eagles of the San Luis Valley, Colorado: their winter ecology and spring migration. Ph.D. Diss. Montana State Univ., Bozeman. 222 pp.
- Hawks, S. J. 1982. Cleghorn habitat management plan. U.S. Dept. Int., Bur. Land Manage., Susanville, CA. 62 pp.
- Howard, R. P., and L. J. Van Daele. 1980. An overview of the status of bald eagles in Idaho. Pages 23-33 in Knight et al., (eds.), Proc. Wash. Bald Eagle Symp. Nat. Conserv., Seattle, WA. 254 pp.
- Hunt, W. G., and B. S. Johnson. 1981. Impacts of a proposed Copper Creek Dam on bald eagles: second winter study. Prepared by Biosystems Analysis, Inc., San Francisco, California, <u>for</u> Seattle City Light, Seattle WA. 140 pp.

Hunt, W. G., B. S. Johnson, C. G. Thelander, B. J. Walton, W. M. Jarman, A. M. Springer, W. Walker II, R. W. Risebrough, and J. G. Monk. In press. Environmental levels of p, p'-DDE indicate multiple sources. Environmental Toxicology and Chemistry.

a

- Iseacs, F. B., and R. G. Anthony. 1983. Ecology of wintering bald eagles in the Harney Basin, Oregon, 1982-1983. Report for U.S. Dept. Int., Bur. Land Manage., Burns, OR. Unpubl. Manuscript. 21 pp.
- Isaacs, F. B., and R. G. Anthony. 1985. Location and history of use of bald eagle nests in Oregon. Report by Oregon Cooperative Wildlife Research Unit, Corvallis. 15 pp.
 - Iseacs, F. B., R. G. Anthony, and R. J. Anderson. 1983. Distribution and productivity of nesting bald eagles in Oregon, 1978-82. Murrelet 64:33-38.
 - Isaars, F. B., and G. Silovsky. 1981. Bald esgle management plan--Fremont National Forest. U.S. Dept. Agric., For. Serv., Portland OR. 86 pp.
 - Jacobson, E., J. W. Carpenter, and M. Norilla. 1977. Suspected lead toxicosis in a bald eagle. J. Amer. Vet. Med. Assoc. 171:952-954.
 - Kaiser, T. E., W. L. Reichel, L. N. Locke, E. Cromartie, A. J. Krynitsky, T. G. Lamont, B. M. Mulhern, R. M. Prouty, C. J. Stafford, and D. M. Swineford. 1980. Organochlorine pesticide, PCB, and PBB residues and necropsy data for bald eagles from 29 states, 1975-1977. Pesticides Monitoring J. 13:145-149.
 - Keister, G. P. 1981. Characteristics of winter roosts and populations of bald eagles in the Klamath Basin. M.S. Thesis. Oregon State Univ., Corvallis. 82 pp.
 - Feister, G. F., and K. G. Anthony. 1983. Characteristics of bald eagle communal roosts in the Klamath Basin, Oregon and California. J. Wildl. Manage. 47:1072-1079.
 - Keister, G. P., Jr., R. G. Anthony, and H. R. Holbo. 1985. A model of energy consumption in bald eagles: an evaluation of night communal roosting. Wilson Bull. 97:148-160
 - Kiff, L. F. 1980. Historical changes in resident populations of California Islands raptors. Pages 651-673 in Power, D. M., (ed.), The California Islands: Proc. of a Multidisciplinary Symp. Santa Barbara Mus. Nat. Hist. Soc., Santa Barbara, CA.
 - Kitchin, E. A. 1939. A distributional checklist of the birds of Mount Rainier National Park. Murrelet 20:27-37.
 - Knight, R. L., G. T. Allen, M. V. Stalmaster, and C. W. Servheen, (eds.), 1980b. Proc. Wash. Bald Eagle Symp. Nat. Conserv., Seattle, WA. 254 pp.

- Knight, R. L., R. C. Friesz, T. P. D'Acci, K. E. Taylor, and J. W. Vanden Bos. 1980a. A summary of the mid-winter bald eagle survey in Washington, 1980. Washington Department of Game, Olympia.
- Knight, R. L., R. C. Friesz, G. T. Allen, and P. J. Randolph. 1981. A summary of the midwinter bald eagle survey in Washington, 1981. Washington Department of Game, Olympia.
- Knight, R. L, R. C. Friesz, and C. M. Orlins. 1979. A summary of the midwinter bald eagle survey in Washington. Washington Department of Game, Olympia.
- Krantz, W. C., B. M. Mulhern, G. E. Bagley, A. Sprunt, IV, F. J. Ligas, and W. B. Robertson, Jr. 1970. Organochlorine and heavy metal residues in bald eagle eggs. Pesticides Monitoring J. 3:136-140.
- Krauss, G. D. 1977. A report on the 1976-77 Klamath Basin bald eagle winter use area investigation. U.S. Dept. Agric., For. Serv., Yreka, CA. 68 pp.
- Leach, J. T. 1982. Bald eagle production in the Great Lake States 1973-1981. U.S. Dept. Int., Fish Wildl. Serv., Reg. 3, Twin Cities, MN. 24 pp.
- Lehman, R. N. 1979. A survey of selected habitat features of 95 bald eagle nests in California. Calif. Dept. Fish and Game Wildl. Manage. Branch Admin. Rep. 79-1. Sacramento. 23 pp.
- Lehman, R. N., D. E. Craigie, P. L. Collins, and R. S. Griffen. 1980. An analysis of habitat requirements and site selection criteria for nesting bald eagles in California. Report by Wilderness Research Institute, Arcata, CA for U.S. Forest Serv., Reg. 5, San Francisco, CA. 106 pp.
- Lehman, R. N. 1983. Breeding status and management of bald eagles in California--1981. Calif. Dept. Fish and Game, Wildlife Manage. Branch Admin. Rep. 83-1. Sacramento. 34 pp.
- Lincer, J. L. 1981. Bald eagle management at the local government level. Florida Sci. 44:36-37.
- Linsdale, J. 1936. The birds of Nevada. Pacific Coast Avifauna 23.
- Lint, J. B. 1975. The bald eagles of Wolf Lodge Bay. U.S. Dept. Int., Bur. Land Manage., Coeur d'Alene, ID. 15 pp.
- Mathisen, J. E. 1968. Effects of human disturbance on nesting of bald eagles. J. Wildl. Manage. 32:1-6.
- McAilister, K. R. 1984. A summary of the 1984 midwinter bald eagle survey in Washington. Washington Department of Game, Olympia.
- Merrill, J. C. 1888. Notes on the birds of Fort Klamath, Oregon. Auk 5:139-146.

Merrill, J. C. 1897. Birds of Fort Sherman, Idaho. Auk 14:347-357.

- - - •

- Mulhern, B. M., W. L. Reichel, L. N. Locke, T. G. Lamont, A. Belisle, E. Cromartie, G. E. Bagley, and R. M. Prouty. 1970. Organochlorine residues and autopsy data from bald eagles, 1966-68. Pesticides Monitoring J. 4:141-144.
- National Wildlife Health Laboratory. 1985. Bald eagle mortality from lead poisoning and other causes, 1963-1984. National Wildlife Health Laboratory, Madison, Wisconsin 48 pp
- Nelson, M. W. 1978. Preventing electrocution deaths and the use of nesting platforms on power lines. Pages 42-46 in Geer, T. A., (ed.), Bird of Prey Management Techniques. British Falconer's Club.
- Newton, I. 1979. Population ecology of raptors. Buteo Books, Vertiliion, SD. 399 pp.
- Olendorff, R. R., A. D. Miller, and R. N. Lehman. 1981. Suggested practices for raptor protection on power lines - the state of the art in 1981. Raptor Res. Found. Rep. 4. 111 pp.
- Olendorfi, R. R., and R. N. Lehman. In press. Raptor collisions with utility lines: an analysis using subjective field observations. Pacific Gas and Electric Co., San Ramon, CA. 86 pp.
- Opp, R. R. 1980. Status of the bald eagle in Oregon 1980. Pages 35-41 <u>in Knight et al.</u>, (eds.), Proc. Wash. Bald Eagle Symp. The Nat. Conserv., Seattle WA. 254 pp.
- Page, D. A., and M. G. Miller. 1981. Essential wintering bald eagle heritat, Elko District, Wells Resource Area. U.S. Dept. Int., Bur. Lant Manage., Elko, NV. 28 pp.
- Feterson, J. F., and B. Johnston. 1980. Bald eagle nesting habitat on the Stanislaus National Forest: existing and potential. U.S. Dept. Agric., For. Serv., Sonora, CA. 27 pp.
- Postupalsky, S. 1978a. The bald eagles return. Natural History 87:62-63.
- Fostupalsky, S. 1978b. Artificial mesting platforms for ospreys and bald eagles. Pages 35-45 in Temple, S.A., (ed.), Endangered Birds: Management Techniques for Preserving Threatened Species. University of Wisconsin Press, Madison.
- Postupalsky, S. 1979. Bald eagles using man-made nests. Pages 124-128 in Ingram, T.N., (ed.), Wintering Eagles: Proc. of '79 Bald Eagle Days. Eagle Valley Environmentalists, Inc., Apple River, IL.

79

Prouty, R. M., W. L. Reichel, L. N. Locke, A. A. Belisle, E. Cromartie, T. E. Kaiser, T. G. Lamont, B. M. Mulhern, and D. M. Swineford. 1977. Residues of organochlorine pesticides and polychlorinated biphenyls and autopsy data for bald eagles, 1973-74. Pesticides Monitoring J. 11:134-137. ÷ .

- Reichel, W. L., S. K. Schmeling, E. Cromartie, T. E. Kaiser, A. J. Krynitsky, T. G. Lamont, B. M. Mulhern, R. M. Prouty, C. J. Stafford, and D. M. Swineford. 1984. Pesticide, PCB, and lead residues and necropsy data for bald eagles from 32 states -- 1978-81. Environment Monitoring and Assessment 4:395-403.
- Risebrough, R. W., and W. M. Jarman. 1985. Organochlorine contaminants in California bald eagles: origins and potential effects on reproduction. Contract report to Pacific Gas and Electric Co., San Ramon; Bald Eagle and Fish Study Final Report, Appendix 1-A, 24 pp.
- Risebrough, R. W., W. M. Jarman, A. M. Springer, W. Walker II, and W. G. Hunt. In press. A metabolic derivation of DDE from Kelthane. Environmental Toxicology and Chemistry.
- Servheen, C. W. 1975. Ecology of the wintering bald eagles on the Skagit River, Washington. M.S. Thesis. Univ. Washington, Seattle. 96 pp.
- Servheen, C. W., and W. English. 1979. Movements of rehabilitated bald eagles and proposed seasonal movements of bald eagles in the Pacific Northwest. Raptor Res. 13:79-88.
- Skagen, S. K. 1980. Behavioral responses of wintering bald eagles to human activity on the Skagit River, Washington. Pages 231-241 in Knight et al., (eds.), Proc. Wash. Bald Eagle Symp. Nat. Conserv., Seattle, WA. 254 pp.
- Sprunt, A., IV, W. B. Robertson, Jr., S. Postupalsky, R. J. Hensel, C. E. Knoder, and F. J. Ligas. 1973. Comparative productivity of six bald eagle populations. Trans. N. Am. Wildl. Nat. Res. Conf. 38:96-105.
- Stalmaster, M. V. 1976. Winter ecology and effects of human activity on bald eagles in the Nooksack River Valley, Washington. M.S. Thesis. West. Washington State Coll., Bellingham, WA. 100 pp.
- Stalmaster, M. V. 1981. Ecological energetics and foraging behavior of wintering bald eagles. Ph.D. Diss. Utah State Univ., Logan. 157 pp.
- Stalmaster, M. V., and J. A. Gessaman. 1984. Ecological energetics and foraging behavior of overwintering bald eagles. Ecol. Monogr. 54:407-428.
- Stalmaster, M. V., and J. R. Newman. 1978. Behavioral responses of wintering bald eagles to human activity. J. Wildl. Manage. 43:506-513.

Verner, J., and R. N. Lehman. 1982. Identifying individual bald eagles with voice prints: a feasibility study. Research Note PSW-359. U.S. Dept. Agric., For. Serv., Pacific Southwest For. and Range Exp. Station, Berkeley, CA. 5 pp.

. .

ŝ

- Wiemeyer, S. N., B. M. Mulhern, F. J. Ligas, R. J. Hensen, J. E. Mathisen, F. C. Robards, and S. Postupalsky. 1972. Residues of organochlorine pesticides, polychlorinated biphenyls, and mercury in bald eagle eggs and changes in shell thickness, 1969 and 1970. Pesticides Monitoring J. 6:50-55.
- Woodcock, A. R. 1902. An annotated list of the birds of Oregon. Oregon Agric. Exp. Sta. Bull. 68. 119 pp.
- Wright, M., and R. E. F. Escano. 1986. Montana bald eagle nesting habitat: macro-habitat description. U. S. For. Serv. Wildl. and Fish Habitat Relationships Program. Missoula, MT. 24pp.
- Young, L. S. 1983. Movements of bald eagles associated with autumn concentrations in Glacier National park. M.S. Thesis. Univ. of Montana, Missoula. 102 pp.

· · ·

.

ч. <u>т</u>

•

,

PART III

IMPLEMENTATION SCHEDULE

The table that follows is a summary of scheduled actions and costs for the Pacific bald eagle recovery program. It is a guide to meet the objectives of this plan, as specified in Part II, Narrative. This table indicates the priority in scheduling tasks to meet the objectives, agencies responsible to perform these tasks, a time-table for accomplishing these tasks, and the estimated costs to perform them. Implementing Part III is the action part of the recovery plan, that, when accomplished, will satisfy the primary objective. Initiation of these actions is subject to the availability of funds.

CENERAL CATEGORIES FOR IMPLEMENTATION SCHEDULES

Information Gathering ~ I Research - R

- 1. Population status
- 2. Habitat status
- 3. Habitat requirements
- 4. Management techniques
- 5. Taxonomic studies
- 6. Demographic studies
- 7. Propagation
- 8. Migration
- 9. Predation
- 10. Competition
- 11. Disease
- 12. Environmental contaminant
- 13. Reintroduction
- 13. Reintfoldecton
- 14. Other information

Management + M

- 1. Propagation
- 2. Reintroduction
- 3. Habitat maintenance and manipulation
- 4. Predator and competitor control
- 5. Depredation
- 6. Disease control
- 7. Other management

RECOVERY ACTION PRIORITIES

- 1 = An action that must be taken to prevent extinction or to prevent the species from declining irreversibly.
- 2 = An action that must be taken to prevent a significant decline in species population/habitat quality, or some other significant negative impact short of extinction.
- 3 = All other actions necessary to provide for full recovery of the species.

Ongoing = Presently being funded and operational by at least one agency. Continuing = Once funded, will be operational for undetermined time.

Acquisition - A

- 1. Lease
- 2. Easement
- 3. Management agreement
- 4. Exchange
- 5. Withdrawal
- 6. Fee title
- 7. Other

Other -0

- 1. Information and
 - education
- 2. Law Enforcement
- 3. Regulations
- 4. Administration

Agency Abbreviations Used in the Implementation Schedule

USFS U.S. Forest Service BLM U.S. Bureau of Land Management TWS U.S. Fish and Wildlife Service Programs: AWR - Wildlife Resources SE - Endangered Species ECE - Environmental Contamination Evaluation LE - Law Enforcement RD - Research and Development R - Refuges AFR - Fisheries Resources CDFG California Department of Fish and Game WDG Washington Department of Game ODFW Oregon Department of Fish and Wildlife NDOW Nevada Department Wildlife IDFG Idaho Department of Fish and Game WGF Wyoming Game and Fish MFWP Montana Fish, Wildlife, Parks NPS National Park Service BOR Bureau of Reclamation ACE Army Corps of Engineers Bureau of Indian Affairs Blá 10C Counties and Local Governments EPA Environmental Protection Agency BPA Bonneville Power Administration ΗY State and Federal Highway Departments NSP Nevada State Parks Nevada Division of Forestry NDE WFD Wyoming State Forestry Department NWF. National Wildlife Federation AUD National Audubon Society ODF Cregon Department of Forestry WDNR Washington Department of Natural Resources N) T Washington Department of Fisheries ODEQ Oregon Department of Environmental Quality TNC The Nature Conservancy

. .

÷.

_	SCHEDULE
2	ð.
PAKT	INPLEMENTATI

rat Task Duration $\frac{1}{4NS}$ $\frac{1}{10}$						Real	mulble A	1	51.5	Fiscal Year of conv	-	comments that a second a shift tasks should be
All L.11 Z Drefectual USFS 20 50	aeral		Taat		Durating (succe)		Program	· •	0.14	772	614	Longing (mplemented)
Interact and interaction Lot and interaction Description Description Discription Distreacond Discription D	Troff T	'lan Tank	2	Prioticy.				040	5	9		
end 7, 9, 11-(1), 16-19, 21-24, 26 end 1 5 5 5 10 10 6 ATH 5 5 5 11-(1), 16-19, 21-24, 21 6 ATH 5 5 5 11-(1), 16-19, 12 6 ATH 5 5 5 11-(1), 16-19, 12 6 ATH 5 5 5 11-(1), 16-19, 12 6 ATH 5 5 5 12-13, 13 7 10 1 7 14-20, 31 0004 1 5 5 13, 16, 10, 14 0004 1 5 5 13, 16, 10, 14 0004 1 1 1 14, 15, 18 1066 1 1 1 14, 15, 18 1066 1 1 10 14, 15, 19 1066 1 5 1 1 1066 1 1 10, 14, 15, 19 1066 1 5 1 1 1 1066 1 5 1 1 1 1066 1 5 1 1 1 1066 1 5 1 1 1 </td <td>L L</td> <td>neate and</td> <td>1.1</td> <td>7</td> <td>Ongolag</td> <td></td> <td></td> <td></td> <td>2 2</td> <td>2</td> <td>: 2</td> <td>2, 11-28, 30, 32, 34-46, 47</td>	L L	neate and	1.1	7	Ongolag				2 2	2	: 2	2, 11-28, 30, 32, 34-46, 47
foresting and entering. 1 5 5 5 5 intercting. 1 5 5 5 1-0 10 intercting. 1 5 5 5 1-0 16 intercting. 5 5 5 1-0 16 1-0 16 intercting. 5 5 5 1-0 16 1-0 16 intercting. 5 5 5 1-0 16 1-0 16 intercting. 5 5 5 1-10 16 1-0 16 intercting. 5 5 5 1-10 16 1-0 16 intercting. 1 7 5 5 7 1-0 16 intercting. 1 1 7 5 5 7 1-0 intercting. 1 1 1 1 1 10 14 15 intercting. 1 5 5 7 1 1 10 14 intercting. 1 1 1 1 1 1 1 1 intercting. 1 1 1 1 1 <td< td=""><td>70</td><td>kanti be</td><td></td><td></td><td></td><td></td><td></td><td>S E</td><td></td><td>,</td><td></td><td>7, 9, 11-13, 16-19, 21-24, 27, 33-37, 41-47</td></td<>	70	kanti be						S E		,		7, 9, 11-13, 16-19, 21-24, 27, 33-37, 41-47
foresting and arrea. 1 5 1 10 10 10 arrea. 5 5 5 5 5 5 5 arrea. 5 5 5 5 5 5 5 arrea. 5 5 5 5 5 5 5 arrea. 5 5 5 5 5 10 16 arrea. 5 5 5 5 10 16 12 arrea. 5 5 5 5 11 14 15 arrea. 5 5 5 5 11 14 15 arrea. 5 5 5 11 16 15 16 arrea. 6 7 1 1 1 16 15 16 arrea. 7 1 1 1 1 1 16 10 16 arrea. 6 7 1 1 1 1 1 1 arrea. 1 1 1 1 1 1 1 1 arrea. 1 1 1 1 1 1 1	2	rete, rooets,				-	ANR .		01	ŝ	2	
• Marretina 5 5 5 5 1-03, 15, 17 • New 5 5 5 5 1-03, 15, 17 • New 5 5 5 5 1-03, 15, 17 • New 5 5 5 5 1-03, 15, 17 • New 5 5 5 10, 14, 12, 13 3 • New 6 8 7 1 10, 14, 15, 13 • New 6 8 7 1 1 1 1 • New 6 8 7 1 1 1 1 1 • New 6 8 7 1 <	-	oreging and					6		01	2	2	
ATTAN. ST	•	il a ret ing							-	~	ŝ	
CIDIC 5 5 5 1-10, 15, 17 CIDIC 1.5 7.5 1-10, 16, 21-23, 37 CIDIC 1 2 2 9-13, 16, 21-23, 37 CIDIC 1 5 5 30, 14, 50, 046 CIDIC 1 1 1 7, 14-20, 37 CIDIC 1 1 1 7, 14, 47 CIDIC 5 5 30, 14, 60, 046 CIDIC 1 1 1 1 CIDIC 5 5 7, 11, 13, 13 CIDIC 5 5 7, 11, 13, 19 CIDIC 1 1 1 1 CIDIC 1 5 5 7, 11, 13, 19 CIDIC 1 5 20 20 14, 27 CIDIC 1 1 1 1 10, 14, 27 CIDIC 1 5 2 2 2 CIDIC 1 5 2 2 2 CIDIC 1 5 2 2 2 CIDIC 1 1 1 1 1 CIDIC 1 2 2 2 2 CIDIC 2 2 <td< td=""><td>4</td><td></td><td></td><td></td><td></td><td>9 - E</td><td>38</td><td></td><td>-</td><td>^</td><td>~</td><td></td></td<>	4					9 - E	38		-	^	~	
America nultar 1.1 2 2 3-13, 15, 12, 13, 37 NOW 1 2 2 3-13, 14-20, 37 NOW 1 2 5 16, 14, 20, 46 NOW 5 5 16, 14, 27, 14-20, 37 NOW 1 2 2 3-13, 14-20, 37 NOW 5 5 16, 17, 14-20, 37 NOW 1 7 1 10, 14, 15, 19 NOW 1 1 1 10, 14, 15, 19 NOW 15 5 5 11, 12, 23, 37, 39, 40 NON 15 5 5 7, 11, 14, 22-24, 25, 26 NON 15 5 5 7, 11, 14, 22-24, 25, 26 NON 15 5 7, 11, 14, 27-24, 27, 27, 27, 27, 27, 27, 27, 27, 27, 27								0.000	~	~	~	71, 13, 15, 17
Move 1 7 1 -13 , 16, 21-23, 37 NOW 1 7 1 -13 , 16, 21-23, 37 NOW 5 5 5 5 16, 17, 14, 20, 31 NPS 5 5 16, 19, 40-46 17, 11, 16, 22-24, 25, 35 NPS 9 9 1 1 10, 14, 15, 19 NPS 9 9 1 1 10, 14, 15, 19 NPS 9 9 9 1, 22, 37, 39, 40 NPS 9 9 9 1, 1, 10, 12, 39, 40 NPS 1 15 5 5 7, 11, 22, 37, 39, 40 NPS NPS 20 20 20 21, 41, 41 NPS 23 20 20 11, 22, 37, 39, 40 NPS 23 23 23 21, 21, 21, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24								ŝ				1-10, 14
Marene aulta- 1.12 3 5 10, 10, 11, 12, 14, 20, 37 106. 1 1 1 7, 14-20, 37 107. 1 1 1 7, 14-20, 37 108. 1 1 1 1 10, 14, 17, 18 108. 1 1 1 1 10, 14, 17, 18 100. 14, 27 100. 14, 27 100. 14, 27 100. 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,								UNV.	_	~	7	9-13, 16, 21-23, 37
Masses sults 1.1 7 , 14, 20, 37 WCF 5 5 16, 19, 60-46 WCF 5 5 16, 19, 60-46 WCF 5 5 14, 15, 10 WCF 5 5 7, 11, 16, 22-24, 25, 26 WCF 1 1 1 10, 14, 15, 10 WCF 20 20 20 10, 14, 15, 10 WCF 20 20 20 10, 14, 27, 39, 40 WCF 31A 15 5 5 7, 11, 22, 39, 30, 40 WCF 20 20 20 10, 14, 27, 39, 30, 40 WCF 3 5 81A 15 23 21 24, 24, 24, 24, 24, 24, 24, 24, 24, 24,					•			NDON		· ·	1	<u>()-))</u>
with the second seco								ENFC.	-	-	_	7, 14-20, 37
MeVP 6 6 7 10, 14, 15, 10 MPS 9 9 1, 2, 7, 11, 14, 22, 37, 39, 40 MA 20 20 10, 14, 15, 10 MA 15 5 5 10, 14, 15, 10 MA 15 5 5 10, 14, 12, 39, 40 MA 15 5 5 10, 14, 12, 39, 40 MA 15 2 20 10, 14, 22, 39, 40 MA 15 2 2 10, 11, 22, 39, 40 MA 15 2 2 10, 11, 22, 39, 40 MA 15 2 2 2 MA 15 2 2 10, 11 MA 1 2 2 34, 44 MA 1 2 2 34, 44 MA 1 2 2 10, 13 MA 1 2 2 34, 44 MA 2 2 3 34, 44 MA 2 2 2 34 MA 2									. ~	. ~	-	
Masers sulta- 1.12 3 9 9 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>م</td> <td>æ</td> <td>-</td> <td>é</td>									م	æ	-	é
Mase a nultar 1.12 1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NPS</td> <td>æ</td> <td>÷</td> <td>æ</td> <td>2</td>								NPS	æ	÷	æ	2
ALE 20 20 20 10, 14, 27 BIA 15 5 7 7, 11, 72, 39, 40 BIA 15 5 7 11, 72, 39, 40 BIA 15 2 20 BIA 15 2 20 BIA 15 7 11, 72, 39, 40 BIA 15 2 2 2 3 BIA 15 10, 19, 21-26, 26 bIA114 001 bIA144 001 presently present								Ť.	_	-	-	ź
Assess sulta- 1.12 5 5 7 11 72. 39. 40 WSP .2 .2 .2 .2 .2 11 72. 39. 40 WSP .2 .2 .2 .2 .2 11 72. 39. 40 WSP .2 .2 .2 .2 .2 10. 10 11 Massess sulta- 1.12 3 5 0.01 20 20 132. 34. Mublicat oot 1 NM 20 20 10. 19. 2123. 34. Presently NM 2 2 2 2 2 2 2 Presently 1 1 1 1 1 1 19. 19. 2123. Presently 1 5 MM 2 2 2 2 2 2 Presently 1 1 1 1 1 1 19. 19. 2123. Presently 1 1 1 1 1 1 1 1 1 Presently 1 1 1 1 1 1 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AUE AUE</td> <td>20</td> <td>ŝ</td> <td>20</td> <td>10, 14, 27</td>								AUE AUE	20	ŝ	20	10, 14, 27
NSP .2 .2 .2 .2 .2 Assess sulta- 1.12 3 5 919, 21-26, 26, 41-44 bility of 00F * * 10, 13 24-46, 41-44 bility of 01H 20 20 1-3, 5-7, 9-19, 21-26, 26, 41-44 bility of 01H 20 20 1-3, 5-7, 9-19, 21-26, 26, 41-44 bility of 01H 20 20 1-3, 5-7, 9-19, 21-26, 26, 41-44 bility of 01H 20 20 20 132, 30-30, 41-44 bility of 01H 20 20 20 1-3, 5-7, 9-19, 21-26, 26, 44 bility of 01H 20 20 20 1-3, 5-7, 9-19, 21-26, 26, 26 bility of 01H 20 20 20 20 21-31, 16, 10, 19, 21-22 bility of 1 2 2 2 2 2 breaked 1 1 1 1 1 1 breaked 1 5 2 2 2 2 breaked 1 1 1 1 1 1 breaked 1 1 1 1 1 1 breaked 1 1								914	15	~	~	r, 11, 72, 37, 39, 40
Assess sulta- 1.12 3 5 007 • • 10, 13 Massess sulta- 1.12 3 5 0.57 20 1-3, 5-7, 9-19, 21-26, 26, 26, 144, 144, 144, 145 Massess sulta- 1.12 3 5 0.585 23 20 20 1-3, 5-7, 9-19, 21-26, 26, 244, 144, 144, 145 Mabitat oot 1 1 28 23 20 20 1-3, 5-7, 9-19, 21-26, 24, 144, 144, 145 Mabitat oot 1 1 28 23 21 21, 11-31, 16, 119, 12, 21-23 Presently 1 2 2 2 2 2 2 Presently 1 1 1 1 1 1 Orcupted. 6 AM 1 1 1 Oppu 0 1 1 1 1 Oppu 0 1 1 1 1								ASN.		7	?	£
Assess aulta- 1.12 3 5 USPS 23 20 20 1-3, 5-7, 9-19, 21-26, 26, 31-44, 51-44, 511114 of 511114 of 511114 of 511111111111111111111111111111111111								004	٠	•	•	t0, 10
Amere sultar 1.12 3 3 3 3 3 3 3 3 44, 43-44, 43-44, 43-44, 43-44, 43-44, 43-44, 43-44, 43-44, 43-44, 43-44, 43-44, 43-44, 43-44, 43-44, 43-44, 43-44, 44-44,									-	50	90	1-1. 5-7. 9-19. 21-26, 28, 30, 32, 35-30, 41, 44
billty of 9, 11-13, 16, 19, 19, 21-23 habitat oot 1 AVN 2 2 premently 1 SE 2 2 premently 1 5 2 2 orcupted. 6 AVN 1 1 brow 1 1 1 premently 1 1 1 premently 1 1 1 premeted. 6 AVN 1 1 brow 1 1 1 <		-ethe eree	1.12	-	~				1	2	2 6	
1 AVN 2 2 2 2 1 SE 2 2 2 6 AVN 1 1 1 6 AVN 2 2 2 2 7 2 2 1 1 1 1 0 0 0 1 1 1 0 0 0 1 1 0 1 0 1 1 0 10 16, 21-1 0		dilty of							9	2	3	5
6 AMN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	abltat oot					51		~	•	-	•
6 ANN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	irenent 15							• •		• ~	
AMM 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	٥	a cupled.					5		J		•	
CDFC 2 2 2 1000 1000 1000 1000 1000 1000 10						ο.			• -		. –	
7.5 7.5 7.5 0 1 1						¢	Ĭ	CORC	• •	• •	• ••	21-23, 35, 37
0								3	, .		2	[-10, 14
								200	0	-	_	9-13, 16, 21-23, 37

* Costs absorbed by other programs.

.

•

.

5

licheral tategory	licturta} (stegury Plan Taak	Tark No.	1	Bucallon Pelority (years)		Reaponalble Agency MS Region Frigram Othe	- Agency	ET IT	fiscal Tear (11,000) 1 PY2 F	L 12	Comments (Numbers refer to comet is which tanks showed be laplemented)
1							1046	c	Ð	-	7, 15, 18, 37
(Lease)							ACIN	•	•	•	1, 2, 5, 6, 10, 19, 40-46
							HEND	-*	-	~	7, 11, 18-41, 47
							NPS	-	-	-	1, 2, 6, 10, 22, 23, 16, 28, 11, 33
							N N	<u>`</u>	~	¢	7, 10, 14, 15
							ACE	¥ £	deter	eined	10, 14
							414	٠	•	•	7, 11, 22, 39-40
							NSP	•	•	•	35
							S A M	•	•	•	1, 23, 31
4	Secute =[eo]=		-	,			SASU	005	006	006	1, 2, 5-7, 9-15, 18, 19, 21-26, 28, 30, 32, 35-37, 44, 46
r	fictant babitat		•				H. H	Ş	£	Ē	(1-14, 16-59, 21-23, 3
	through lease.	,					FUS				3, 15-37, 40-41, 44,
					1	*		С	22	22	
	-nt, copera-				-	AMR		2	22	3	
	ilvr sgrrrseni.				÷	*		Ē	9	Ξ	
	DE MITCHARC.				£			200	500 2	ŝ	
	•						COPC	190	100	001	21, 23, 25-33, 35, 37
							ЭЩ	Ξ	ē	9	1-10, 14
							00PV4	i	2	1	9-13, 16, 21-23, 37
							NUM	2 2	Φ.		34, 35
							1020	:	ĩ	ŝ	2, 16-18
							100	:	2	£	13, 40, 44, 46
							ANAN	¢		2	1' RT' 1
							SUN	9		2	14, 19, 26, 28, 31, 33
							Ť	2		2	÷
							ACE	3	35	\$	10, 14, 39
							Ň	ы 2		a la d	11, 22
							APA	530	530	20	5-10, 12, 14-16, 20
							005	-	_	-	10, 13, 22
							Nut	r F	determined	ai ned	÷. =
							011V	<u>لا</u> 2		alned	4, 18
							ЦÇ Ц	1 1	determined		

* Conta absorbed by other programs.

67

						Terroretter	- ALCOCY	Place T Year	which have a second s
Mo. FETOLITY View 10 10 12, 2, 57, 9-16, 10 20, 10, 30, 30, 30, 30, 30, 30, 30, 30, 30, 3	General				-	PAS Treiton Prokt	e le	(900)	Comments (Numbers refer to coord in which rank who have a second se
Herehlish 1.23 1 5 111.1 1.24 1.24 1.24 1.24 1.25	Category	Plan Tech	ġ ₽	Priority	1				2
Investment 1 5 5 5 1 ansagreent 1 5 5 5 5 5 ansagreent 1 1 1 1 1 1 ansagree 1 1 1 1 1 1 1 ansagree 1 1 1 1 1 1 1 1 ansagree 1 1 1 1	3	tereții i ali	1,22	-	.		USES	2 4	7, 11-14, 16-20, 30, 32, 35-30, 40-45, 47
anongreeved 1 5 5 5 5 arrena 2 1 1 1 1 1 arrena 2 1 1 1 1 1 1 arrena 2 1 1 1 1 1 1 1 arrena 2 1 1 1 1 1 1 1 1 arrena 2 1 1 1 1 1 1 1 1 arrena 2 1 1 1 1 1 1 1 1 0 10 10 10 10 10 10 10 10 10 0 10 10 10 10 10 10 10 10 10 0 10 10 10 10 10 10 10 10 10 10 <t< td=""><td>-</td><td>Intertwise and</td><td></td><td></td><td></td><td></td><td></td><td>></td><td>2</td></t<>	-	Intertwise and						>	2
arread. 55 7 10.		andgraent.				- 56		~ ~	
SE SE 1		# L P # # .						~ ~	
0 0						. e		- -	
COPC To be determined $1-10$, WC To be determined $1-10$, WC To be determined 10 , 19 WC To be determined 10 , 19 WC To be determined 10 , 19 WC To be determined 10 , 10 , 18 , WC To be determined 10 , 10 , 18 , WC To be determined 10 , 10 , 18 , MA To be determined 10 , 10 , 18 , MA TO be determined 10 , 10 , 18 , MA TO be determined 10 , 10 , 18 , MA TO be determined 10 , 10 , 18 , MA TO be determined 10 , 10 , 18 , MA TO be determined 10 , 10 , 18 , MA TO be determined 10 , 10 , 18 , MA TO be determined 10 , 10 , 18 , MA TO be determined 10 , 10 , 18 , MA TO be determined 10 , 10 , 18 , MA TO be determined 10 , 10 , 18 , Land use plane. 6 AMB TO BE COME TO BE DETERMINED						96 			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							CDIC	To be determined	יר יני <i>ווי</i> יוי
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							2 S	To be determined]-[0, M
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							000		g-[], [6, 2]-(], JC
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$:DPC	To be determined	10, 20
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							ŝ	To be determined	18, 19, 40-46
MT MT <td< td=""><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td>•</td><td>÷</td></td<>				•				•	÷
Incorporate 1.23 2 Ongoing 1 Aur 1 1 1 1 1 2, 11, 12, 13, 15, 15, 15, 11, 10, 14, 14, 16, 16, 15, 15, 15, 15, 15, 11, 10, 13, 15, 15, 11, 11, 12, 15, 15, 11, 12, 15, 15, 11, 12, 12, 15, 15, 11, 11, 12, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15								, ,	, 20, 31,
Incomporte 1.23 1 0.0, 15 15, 15 15, 15 15, 15 15, 15 15, 15 15, 15 15, 15 15, 15 15, 15 15, 15 16, 15 NSP To be determined 30 NSP To be determined 35 11, 1 2, 11 1 2, 11 1 2, 11 1 2, 11 1 2, 11 1 2, 11 1 1 2, 11 1 1 2, 11 1 1 2, 11 1 1 2, 11 1 1 1 2, 11 1 1 1 1 2, 11 1 1 1 1 1 1 2, 11 1								and	1
Althouse 10 10 10 11 11 11 11 11 11 11 11 11 11 11 11 12 11 11 11 12 11 11 11 12 11 11 12 11 11 12 11 11 12 11 11 12 11 11 12 11 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 11 12 11 11 12 11 11 12 11 11 12 11 11 12 11 11 11 12 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11							6, 6,		
Incorporate 1.23 2 Ougoing USF To be determined 30 WSF To be determined 35 WSF To be determined 35 MSF To be determined 10, 11 Incorporate 1.23 2 Ougoing USFS 11 11 11 1, 2, 11 habitat guide- Incorporate 1.23 2 Ougoing USFS 11 11 11 1, 2, 2, 11 habitat guide- Incorporate 1.23 2 Ougoing 1 ANR 2 2 2 2 1-11, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,							1.12 1.12	_	7 11 22, 37, 39, 40
Loc To be determined 20 WSP To be determined 35 WSP To be determined 35 NSP 11 11 11 1, 7, habitat guide- Lines in spency Land use plane. 6 AUR 2 2 2 Land use plane. 6 AUR 2 2 2 2 Land use plane. 6 AUR 2 2 2 2 Land use plane. 6 AUR 2 2 2 2 0.0PU 5 5 5 1-11. 0.0PU 5 5 5 1-11. 0.0PU 5 5 5 5 1-10. 0.0PU 5 2 2 2 2 2 2 2 2 2 2 1-10. 0.0PU 5 2 2 2 2 2 2 2 1-10. 0.0PU 5 2 2 2 2 2 2 2 2 2 2 2 1-10. 0.0PU 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2									
NSP To be determined 73 Incorporate 1.23 2 Ongoing USFS 11 11 1, 2, 2, 2, 11 Incorporate 1.23 2 Ongoing USFS 11 11 11, 2, 2, 2, 2, 11 Incorporate 1.23 2 0agoing USFS 11 11 1, 2, 2, 2, 11 Incorporate 1.23 2 0agoing USFS 11 11 1, 2, 2, 2, 11 Inco in egency 1 NR 2 2 2 2 1 1, 12, 11 Inco in egency 1 ANR 2 2 2 2 2 1 10, 10, 10 Inco in epiane. 6 ANR 2 2 2 2 1 10, 10 Inco in epiane. 6 ANR 2 2 2 2 1							201	To be differentied	₹;
ODW To be determined U, 13 Incorporate L.23 2 Ongoing USYS 1 1 1 2, Incorporate L.23 2 Ongoing USYS 1 11 11 1, 2, Incorporate L.23 2 Ongoing USYS 1 11 1, 2, 2, 11, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 1, 2, 1, 1, 1, 2, 1, 1, 1, 2, 1, 1, 1, 2, 1, 1, 1, 2, 1, 1, 2, 1, 1, 1, 2, 1, 1, 1, 2, 1, 1, 1, 2, 1,<							NSP	To be determined	
Incorporate 1.23 2 Ongoing USPS 11 11 11 1, 2, habitat guide- habitat guide- lines in agency 1 ANR 2 2 2 1-11, PVS 1 = 11, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,							ACC.	To be delerations	
Incorporate 1.23 2 Ongoing 0.575 1 1 1 Inbltat guide- 1.23 2 0.6016 0.575 1 1 Ince in egency 1 AMR 2 2 2 2 Ince in egency 1 AMR 2 2 2 2 Ince in egency 5 AMR 2 2 2 Ince plane 6 AMR 2 2 2 Ince plane 6 AMR 2 2 2 Ince plane 6 AMR 2 2 2							1401		1 2. 5-19. 21-26, 20, 30, 32, 35, 37-41, 43, 44, 46
habitat guide- habitat guide- linee in egency 1 MK 2 2 2 1 Land use plane. 6 ANG 2 2 2 2 1-01, WNG a a 1-10, UNV 5 3 9-11, UNVU 5 2 2 31-31,	5	lecorners e	1.20		Cagolng		STSU .		2 11-Va 12, 35-47
1 AVR 2 2 2 2 2 2 6 AVR 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2	hehitat cuide-			r		ł.		
ANR COVE 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4							2	•	-
6 AUR COVE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			•					~ ^	
1+ 22 1+ 22 1+ 22								7 7 7 7 7	21-33, 35, 37
								. • . •	1-10, 14
									. 9-11, 16, 21-21, J7
)1-)1

ł

Costs absorbed by other programs.

٠.

÷

۴

•

	• • • • •	•				Reanon ble Scenty	Verner	F ar	Flacat Vear	-	
General I		Tauk		Puret Ion			P		(\$1,000)		Comments (Numbers refer to zones in which tasks should be
والإرادية	Calegory Plan Task Priority (years) Region	£	Priorly	(years)	K-8-1-10		Program Other	1.4	FW FW		[uplemented]
Ŧ							1 PPC	ŗ.	.2	•	2, 16, 10-20
L INNE 1							a dan	~	~	2	18, 19, 40-46
							NT-S	7	2	~	1, 2, 6, 7, 10, 19, 24, 26, 28, 11, 11, 40
							Reik	~	~	~	r, In, is, is
							ACC.	~	~	2	10, 14, 27
							CHUC	1 °1	To be determine	herd.	1-14, 16, 21-23, 10, 17
							RIA	~	~	~	11, 22, 35, 37, 40
							dy N	•	•	•	15. 17
							nbF	Ċ	•	٣.	1-01
ĩ	Incorporate	1.74	7	(huger) og			115155	•	¢	•	3. 35-37
	habitat guide-		ī	:			Set				11, 22, 28, 34
	lines in					AUA		~	~	N	
	deve lophent				÷	AUR		2	~	~	
	covenants and						CDFC	_	_	1	1-11, 15, 37
	Incel land use						, CAUM	œ	æ	æ	1-10, 14
	and zoning						0.074	-	-	-	-14, 16, 21-23, 37
	policien.						NXM	٠	•	•	(-), (-), (-), (-), (-), (-), (-), (-),
							ette Ette	٠	·	•	8,]9, 40-46
							ACE.	7	~	~	
							СО П	<u>لا</u> ۴	To be determined	a bra	. 9-21, 37
							-100	•	•	•	

* Conta absorbed by other programs.

6

		•				and the A	wrad V	Flac	Flacal Tear		
-		ر ۲۰۰۲		the states		SN4	Ni A	3	(0))),		Comments (Numbers rates to gover in which insits should be
	Ption Task	No.	Pr Jost II y	N.J. Pristing (years)	1.÷	Region Program Griser	Griter	E	The second	E	(aplemented)
		-		: 							
-							2420	Ş	Ż	\$	1, 2, 5-7, 9-11, 18, 19, 21-26, 20, 32, 32-39, 41, 40
÷				•				2	22	2	/, 11-14, 16-19, 21-28, 32, 34-41, 45-47
							1				7 0 11-13 16-23 27 11-17, 41, 45-47
	plans to scente	7.					Ē		,	,	
	store 11 hr mean				-	ЯUК		-	-	-	
					-	SE		-	-	-	
								~	~	~	
	and for aging									•	
					¢	, N		•	v	4	
							CDFIC	2	9	\$	21.21, 35, 37
								22	22	22]-10
								to le	to be determined	- ned	4 1J. 16. 21-21. JJ
									•		
								•	ł	•	10-if
							1010	~	~	~	7, 15, 18
			•				1.1	-	-#	-	18, 19, 40-46
							NPWP	~	2	~	7, 10, 34-41, 47
							NPS.	Ŷ	9	Ξ	1, 2, 6, 7, 10, 22, 24, 26, 33
							Ň	-	-	0	10. 14. 15. 18. 20
							ACK.	~	2	2	10, 14, 27, 28
							-				7.19.40
							: :	• •			
							,	• .	- ,		
							9PA	^	~	^	
							00P	-	-		10, 13, 22

•

* Costs absorbed by other programs.

• •

.

•

(eneral)		taat		there is a number of the numbe	41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Reaponalble Agency 120	Sent Y		Flacul Year (1) 0001		Provide the second of the second s
t at right y	Plan Task	ž	Printing	Nu. Priority (yours) Region	Reg Lin	Program (ther FVI	(II her		117 111	L.	(mplemented)
μţ	Petakilel a	1.76	2	Ոսցանութ			11SPS	5	Ξ	Ē	1, 2, 5-7, 9, 10-16, 18, 19, 21-26, 28, 10, 32, 35, 39-4), 46
	framework for						H	¥	€	5	25-28, 30, 32, 34-37, 39-41
	net plan						ž				21-Jn, J2-J5, J7-42, 46
	leptementation.				-	¢		مر		~	•
					£	Ē		~	~	~	
							CDFR	~	^	2	21-13, 15, 37
								-	-	-	1-10,14
							7.00	<i></i> ,	ς.	٣.	9-11, 16, 21-21, 37
							NINN	•	•	•	11-12
							PH4	_	_	-	7, 16, 18
							ana.	-	-	-	19. 40-44. 46
							ALM.	-	-	-	7, 18, 30-61, 47
							SIL	-	-	_	1, 2, 6, 7, 19, 23, 26, 39-41
										-	7, 20, 14, 15, 18
							ACH	-	-	_	10, 14, 28
							1.00	~	2	~	4, 10, 10
							ЧР.		ñ	ŕ.	10, 11
							ChPG	•	•	•	
63	Support	1.27	7	Continuing.	R,		NDC NDC	t L	To he deteration	fard	
	changes in						naqu	•	•	•	
	tak lawa.						NDCIN	•	٠	•	
							10441	•	•	•	
							4.04	¥	•	*	
							HPup	٠	*	•	
							484	to by	To be determined	Ined	
							ALD.	Ъ Ч	To he determined	1 nev	

t

* Conts absorbed by other programs.

16

$ \begin{array}{cccccc} \mbox{torucled} & \mbox{torucled} &$	I		•			Trep.	one fbTe A	Sen'y	₽['ec	of Year		
Nu. Prilurity (grate) Region Program Other PY1 PY1 PY1	tyrneted by		test		Durat ton	5	5		đ	(000,		Comments (Numbers retar to somes in shich tasks should be
Manage Inland 1.311 2 Obgolds I lat popula- I lat loan and 0 6 6 I lat loan and 1.311 2 20 20 20 I lat loan and 1.311 2 20 20 20 20 I lat loan and 1.311 2 20 20 20 20 I lat loan and 1.31 0 0 0 0 0 1-1 I lat loan and 1.31 0 0 0 0 0 1-1 I lat loan and 1.31 0 0 0 0 0 0 I lat loan and 0 0 0 0 0 0 0 asilowate fund 0 0 0 0 0 0 0 asilowate fund 0 0 0 0 0 0 0 bit quarte fund 0 0 0 0 0 0 0 bit quarte fund 0 0 0 0 0 0 0 bit quarte fund 0 0 0 0 0 0 bit quarte fund 0 0 0 0 </th <th>ZaoRo (e.)</th> <th>Plan Tak</th> <th>N.</th> <th>Printly.</th> <th>(years)</th> <th>Region</th> <th>Program</th> <th>01 11-1</th> <th>I.A.</th> <th>PN2</th> <th>NI -</th> <th>Inplement rd)</th>	ZaoRo (e.)	Plan Tak	N.	Printly.	(years)	Region	Program	01 11-1	I.A.	PN2	NI -	Inplement rd)
M.H 0 A.H. FUS A.H. FUS FUS 2.0 20 M.H 10 10 M.H 10 10 M.H 1100 1 M.H 1 M.H 1	H	Manage Inland	1.311	7	(buga lag			SA20	¢	æ	Ŧ	t. 2. t-16. 10. 19. 20. 30. 32. 35-44. 46
AHK LO 20 20 20 AHK LO 20 20 20 AHK LO 10 10 10 AHK LO 20 20 20 AHK LO 40 10 10 10 AHK LO AHK LO 20 20 AHK AHK AHK AHK 20 20 AHK AHK AHK AHK		and and commu	_		!			H N	•	÷	÷	6 7 11-19 21-20 30 36 46-47
A.H.K 20 20 20 A.H.K 10 10 10 A.H.K 110 10 10 A.H.K 11 1 1 A.H.K 11 1 1 A.H.K 11 1 1 A.H.K 1 1 1 <		fini popula-						FUS				1-16, 10, 19, 21-29, 33-37 39-42, 44-47
6 AR 31 10 10 MXC 2 21 21 MXC 2 21 21 MXG 2 21 21 MXH 1 1 1 1 MXH 3 4 21 MXH 4 4 21 MYH 5 5 2 MYH 5 5 2 MYH 6 6 6 MYH 6 6 MYH 6 6 MYH 7 7 MYH 7 7 MYH 7 7 MYH 6 MYH<		Lationn and				_	APR		5	£	5	
ChPC * * 21 CDPC * * 21 CDPC * * 21 CDPC * * 2 2-11 CDPC * * * 22 CDPC * * * * * 22 CDPC * * * * * 22 CDPC * * * * * 10 CDPC * * * * * * * * * 10 CDPC * * * * * * * * * * * * * * * * * * *		hublists to				÷	34V		ŧ	0	ŝ	
UDG 1 7 7 1 UDG 1 1 1 1 9 UDG + + 1 1 1 UDG + + 1 1 1 UDG + + 1 1 1 UDG 5 5 5 5 7 UDG 1 1 1 1 1 UDG 5 5 5 5 7 UDG 5 5 5 5 7 UDG 5 6 1 1 1 UDG 5 5 5 5 5		salutatu and						0440	•	•	•	21-13, 35, 37
00FU 1 1 1 00FU 1 1 1 00FU 1 1 1 01FG 4 4 4 01FG 5 5 7 01FG 5 5 7 01FG 6 4 5 7 01FG 6 4 4 7 01FG 5 5 5 7 01A 6 4 6 7 01A 6 4 6 7 01A 6 6 6 7 01A 6 7 10 10 01A 5 7 10 01B 5 6 6 01P 5 6 7		euhant r						×5	~	~	~	2-10, 14
MINU * * * * * * * * * * * * * * * * * * *		winguals food						N-HOID	г		_	9-14, 16, 21-23, 37
IIHG + - - - - W.F Tn In In - - - HYMP 3 + 5 - - - HYMP 3 + 5 - - - HYMP 3 + 5 - - - HYMP 3 + - - - - HYMP 5 5 5 5 - - HYMP 10 10 10 10 0 - HAM 5 5 5 5 5 5 HAM 5 5 5 5 <t< td=""><td></td><td>Tur takles.</td><td></td><td></td><td></td><td></td><td></td><td>NYN N</td><td>•</td><td>*</td><td>•</td><td>JJ-J7</td></t<>		Tur takles.						NYN N	•	*	•	JJ-J7
To be determined 10. 		5						2401	•	•	٠	7, 14-16, 18-20
								1.3	To be	del era	alned	18, 19, 40-46
								AVVH	÷	-#	÷	2, 10, 30-41, 47
								Sam	•	•	*	7, 18, 33, 40
								BCB	•	•	٠	7, 9-12, 14-16, 18-24, 27, 33, 37, 38, 40-42, 44-46
To be decentined 16. 10 Th 10 S-10 5 5 10 10 5 5 10 5 10 1 10								ACE	<u>ہ</u>	~	~	9-12, 14-19, 21-23, 27, 20, 37, 40-42, 44-46
To be deceratined 16. 10 Th 10 5-10 6 5 5 10 6 4 6 1-10								NIA	•	•	•	7, 35, 76, 40
6, v4 5, v4 8, v4								196	¥ 2	determ	daed	16, 17
* • • * • • * • •								RPA	01		ŝ	5-10, 12
								ODF	•	4	+	10, 13
- -									<u>ب</u>	ŝ	-	1-7, 10
								ŧ	-#	+	-	1-10, 14

* Costs absorbed by other programs.

6

.

.

٠

•

	Martin Insertes <	Consul Cuirgory Plan Task		Task No.	Priority	ack Buration No. Priority (years)	¥		nther .	- 	(\$1,n04) 	1 41	Comments (Numbers refer to zones in which tasks should be implemented)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Malata and a ta	han t	21C.1	a	Ռոբոլու			SA20 Mini	<u>•</u> •	<u>-</u>	<u></u> ≄*	5-7, 9-10, 12, 18, 21, 24-26, 28, 41, 16, 25, 26, 36, 37, 39, 41, 44, 47
1.111 ARR ARR<	1.331 0 1.34 0 1.44 0 1.44 0 1.44 0 1.44	ant that	allan						S.				16, 18-23, 27, 29, 33-37, 39-42,
1.331 1.331 0	1.331 1.331 1.331 1.331 1.331 1.0 <	Ined aou	FLFR.				-	AUR		Ξ	5	ŝ	
Alternational de la contraction de la contractio	Alternative and a second and a						~	×		Ξ	Ē	=	
1.321 1.321 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.011 0.000 0.000 0.000 0.000 0.0125 0.000 0.000 0.000 0.000 0.010 0.000 0.000 0.000 0.000 0.010 0.000 0.000 0.000 0.000 0.010 0.000 0.000 0.000 0.000 0.010 0.000 0.000 0.000 0.000	1.331 1 Олис 10 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>£</td><td>ANK</td><td></td><td></td><td>Ŷ</td><td>÷</td><td></td></t<>						£	ANK			Ŷ	÷	
CDPC	CDVC 1.0 10 10 10 10 10 10 10 10 10 10 10 10 10						¢	œ.		-س	<u>ب</u>	مر	
HIC HIC <td>HC 1.331 1 00001 5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>54404</td> <td>Ŧ</td> <td>Ŧ</td> <td>*</td> <td>21-13, 35, 37</td>	HC 1.331 1 00001 5								54404	Ŧ	Ŧ	*	21-13, 35, 37
0.0*V 5	0.0*V 5									ŝ	10	£	1-10, 14
NUU	NIU NEE NEE NEE NEE NEE NEE NEE NE								1400	ς.	ς.	2	
1.1.11 1 One of ne 1000 10 10 10 10 10 10 10 10 10 10 10 1	11.11 1 0ngoing 1055 20 20 60 11.11 1 11.11 1 1 1 1 1 1 1 1 1 1 1 1								742	•	*	•	11-11
ист ист ист и и и и и и и и и и и и и и	ист и и и и и и и и и и и и и и и и и и								240 I	•	•	*	7, 14-16, 15-20
HEVT NEW	HWT NER				,				HCF.	•	•	¥	IA, 19, 40-45
NFS	NPS NEE IN THE NEE INTO NEE INT								17.1N	•	٩	•	
1.321 1.321 0naving 1.321 1.1.1 1.321 0naving 1.55 20 20 6 1.321 0naving 1.55 20 20 6 1.321 0naving 1.55 20 20 6 1.321 0naving 1.55 10 10 10 1.321 0naving 1.55 20 20 6 1.55 0.00 0.00 0.00 0.00 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1	NR 1.1321 I Onvolut MCF 10 10 10 10 10 10 10 10 10 10 10 10 10								S A N	•	*	•	
ACF IO 10 10 10 10 10 11.321 1 0ngoing with 1.321 1 0ngoing with 1.321 1 0ngoing with 1.4 14 14 15 15 15 15 15 16 16 10 10 10 10 10 10 10 10 10 10 10 10 10	ACF IO 10 10 10 10 10 10 10 10 10 10 10 10 10								De HR	•	•	٠	
1.321 1 Oneofine Bin	1.321 1 Drawing in the interval of the interva								ACF	S	Ċ.	Ē	2
1.321 I Drawing in 1.321 I Drawi	1.J21 I Drawing 1.J22 I Drawin								A I A	•	•	•	
1.321 1 Drawing USFS 20 20 60 WM 14 14 14 14 14 14 14 14 14 14 14 14 14	1.321 1 Drawing USFS 20 20 60 NM 14 14 14 14 NM 14 14 14 NM 1 14 14 NM 1 15 14 NM 1 16 10 10 1 5 5 5 5 0 1 1 1 1 NDC 1 1 1 1 NDC 1 1 1 1 NGF 2 1 1 1								B PA	Ξ	<u> </u>	ŝ	5-10
Image: 1 Image	MAN 14 14 14 14 14 14 14 14 14 14 14 14 14	-		=	-	Generation			5450	02	2	9	1.2. 5-19. 21-26. 20. 30. 32. 35-44. 46
WNS 1-27, 25-27, 31-36, 40, 1 5 5 1-27, 25-27, 31-36, 40, 6 5 10 10 20 6 5 5 5 5 6 5 5 5 5 6 5 5 5 5 6 5 5 5 5 7 10 10 10 10 1 1 1 1 1 10 1 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1 11 1 1 1	WNS 1-21, 25-27, 31-36, 40, 1 SE 10 10 20 6 SE 5 5 5 37 6 SE CDPC 6 4 21-33, 35, 37 6 SE CDPC 6 6 5 7 1 1 1 1-40, 14 0 1 1 1 1-40, 14 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1				-				112	2	2	-	7. 0. 11-20. 30. 32. 34-47
1 5E 10 10 10 6 5E 5 5 5 6 5E 5 5 5 7000 1 1 1 10 7000 1 1 1 1 7 1000 1 1 1 7 1000 1 1 1 7 1000 1 1 1 7 1 1 1 1 10 1 1 1 1 10 1 1 1 1 10 1 1 1 1	1 5 5 5 5 6 5 5 5 5 7 7 6 5 5 7 7 6 7 7 8 5 5 5 5 9 14 1 1 1 9 1 1 1 1 1 1 1 1 1 10 1 1 1 1 1 1 1 1 1 10 1 1 1 1 11 1 1 1 12 1 1 1 13 1 1 1	habitet 1	t het						ŝ			•	25-27, 33-38, 40,
1 5E 10 10 20 6 5E 5 5 5 5 MDC 14 1-10, 14 1-10, 14 NDOW 1 1 1 9-14, 16, 21-23, 16 NDOW 1 1 1 1-10, 14 NDOW 1 1 1 1-40, 40, 41	1 5E 10 10 20 6 5E 5 5 5 5 7 7 6 14 1-10, 14 7 1 1 1 1 7 1 1 1 1 7 1 1 1 1 7 1 1 1 1 8 1 1 1 1 9 1 1 1 1 10 1 1 1 1 11 1 1 1 1 12 1 1 1 1	la prenei	ut ly					ł		4	-	ŝ	
5F 5 5 5 5 35 37 VINC 14 14 1-30, 14 14 14 14 VINC 1 1 1 14 15, 21-23, 15 12, 14 VINDOW 6 6 6 1 1 16, 21-23, 15 VINDOW 6 6 6 1 1 16, 21-23, 15 VINDOW 6 6 6 1 1 16, 21-23, 15 VINDOW 6 6 6 1 1 16, 21-23, 16 VINDOW 6 6 1 1 16, 21-23, 16 VINDOW 7 1 1 16, 21-23, 16 VINDOW 7 1 1 16, 40, 41	SE CDNC C C S	used by a	ragles.					2 2 2		2.	2,	3.	
7, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	7, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,						÷			~ '	^ •	^ •	ž
14 14 14 14 1-10, 14 1 1 1 9-14, 15, 21-23, 4 40-42, 44-46 1 1 1 7, 39, 40, 41	14 14 14 1-10, 14 1 1 1 9-14, 15, 21-23, 1 1 1 9-14, 16, 21-23, 1 1 1 1, 40-42, 44-45 1 1 1 7, 39, 40, 41								2002	•			.
I I I 7-14, 15, 21-23, 13-17 2 I I 18, 40-42, 44-46 I I 7, 39, 40, 41	I I I 3-14, 15, 21-23. I I 33-37 I I 13, 40-42, 44-46 I I 7, 39, 40, 41									<u>*</u>	.	.	
•	• •								N.1Q0	- '	'	- '	9-14,]b, Z1-ZJ, J/ 22 22
, , , , , , , , , , , , , , , , , , ,									NOON	*	•	•	
1 1 1 7, 39, 40,	1 1 1 7, 39, 40,								KCF	~	_	-	18, 40-42, 44-46
									AVIN	-	-	-	7, 39, 40, 41

.

6

Plan Train Test Train Point Train Test Train Plan Train Common Science and Advict related in Advict related in the Advict related in						THE ADDRESS AND A THE ABOUT	Langer L		THEN! THEF	
1.321 1.321 NUS 5 5 10, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16	Category	Plan Task	1 ÷		Duraction (years)	Reglan Program	e Celar	Ē	(000)	
1.321 1.321 1.321 1.321 1.121 <td< td=""><td>j</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>1</td><td></td></td<>	j						1		1	
Millstate and Line 1.132 J Orge 1.131 J Orge 1.131 J Millstate and dervelop 1.132 J Orge 1.132 J Orge 1.131 J Millstate and dervelop 1.132 J Orge 1.132 J Orge 1.132 J Millstate and dervelop 1.132 J Orge 1.132 J Orge 1.132 Millstate and dervelop 1.132 J Orge 1.132 J Orge 1.132 Millstate and dervelop 1.132 J Orge 1.132 J 1.132 J Millstate and dervelop 1.132 J Orge 1.132 J 1.132 J Millstate and dervelop 1.132 J Orge 1.132 J J J Millstate and dervelop 1.132 J Orge 1.132 J J J J Millstate 0 0 1.132 J Orge J J J Millstate 0 0 0 1.132 J J J J Millstate 0 0 0 0 1.132 <t< td=""><td></td><td></td><td>1.321</td><td>_</td><td></td><td></td><td>5 A N</td><td>~</td><td>- -</td><td>;</td></t<>			1.321	_			5 A N	~	- -	;
MCL 5 5 7 10 10 MCN MCN MCN 10 10 10 10 MCN MCN MCN MCN 10 10 10 10 MCN MCN MCN MCN MCN 10 10 10 10 MCN MCN MCN MCN MCN MCN 10 <	1100						žă	•	•	2
Mix Mix Mix Mix Mix Mix Mix Mix MOV MOV Mov Mix Mix Mix Mix Mix Mov Mix Mix Mix Mix Mix Mix Mix Mix Mix							ACI.	<u>م</u>	ب	
LOC LOC <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>BLA</td> <td>•</td> <td>•</td> <td></td>							BLA	•	•	
WM ************************************							101	•	•	
HDY For by the formulation of the formul							72 H	•	•	
Multicate and balatist for develop 1.132 J Orge 5:5 - - 1.9, 40, 43, 40, 43, 40, 43, 40, 43, 40, 43, 44, 40, 43, 44, 40, 43, 44, 44, 44, 44, 44, 44, 44, 44, 44							ND.	•	•	
Multicate and develop 1.132 J Orgotian USYS 0 0 1 2 5 10, 42, 40, 43, 7 1 Multicate and develop 1.132 J Orgotian USYS 0 0 1 2 5 10, 43, 7 0 0 1 2 5 10, 43, 7 0 0 1 2 5 10, 43, 7 0 0 1 2 5 10, 14, 7 10, 14, 7 10, 14, 7 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 14, 10, 10, 14, 1										: : :
Mal ht at is and develop 1.322 J Orgolical USFS 0 0 5 5 5 1 2 5 16 42 Mal ht at is and here top 1.322 J Orgolical USFS 0 0 5 1 2 5 1 1 3 5 1 1 3 5 1 1 3 3 9 1 1 3 3 9 1 1 3 3 9 1 1 3 3 9 1 1 3 3 9 1 1 3 3 9 1 1 3 3 9 1 1 3								à	determin	10 12
Maintain and develop 1.322 J Orgoing UNK 4 4 4 1.4, 10 Gewelop USPS 0 0 13 7 8, 10, 42, 9, 11, 11 develop Ustrat USPS 0 0 15 7, 8, 11-28 Mobiliat for tuture use by Ustrat USPS 0 0 3 7, 9, 11, 11 Explore DIV 0 0 15 7, 8, 11-38 9, 40, 41 Mobiliat for tuture use by DIV 0 0 3 110, 14 10, 14 DIV 0 0 0 1 9-10, 15, 16 10, 41, 16 Mobiliat for tuture use by DIV 0 0 0 10, 14, 16 10, 16, 16 DIV DIV 0 0 0 0 1 10, 16, 16 MOM - - - - - - 10, 16, 16 NO 0 0 0 0 0 0 10							001	Ċ		2
Multicitation 1,132 J Orgoinal USPS 0 63 1,2 2,9,40,43 develop USPS 0 0 13 7,6 11,13 1,2 2,9,40,43 develop USPS 0 0 13 7,6 11,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,13,1,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,1,2,13 1,12,12,13 1,13,12,13 1,13,12,13 1,13,12,13 1,13,12,13 1,13,12,13 1,14,16,16 1,14,16,16 1,14,16,16 1,14,16,16 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td><td>*</td><td>-</td></t<>								4	*	-
Multicial and develop 1.322 J Organia Multicial for Induce due by 0 0 0 0 1 2 9-16, 7 6, 11, 21, 7 6, 11, 21, 7 7, 6, 11, 11, 7 Multicial for Induce due by 0 0 0 0 5 3, 1-13, 7 9, 11, 11, 7 Multical for Induce due by 0 0 0 0 5 3, 1-13, 7 9, 11, 11, 7 Multical for Induce due by 0 0 0 0 5 3, 1-13, 7 9, 11, 11, 16, 21 Multical for Induce due by 0 0 0 0 0 1 9-11, 16, 21 Multical for Multical for 0 0 0 0 0 1 9-11, 16, 21 Multical for Multical for 0 0 0 0 1 2 1 Multical for Multical for 0 0 0 1 2 1 1 Multical for Multical for 0 0 0 1 2 1 1 Multical for Multical for Multical for 0 0 0 1 2 1 1 Multical for Multical for Multical for Multical for Multical for Multical for Multical for Multical for Multical for 0							SCS	•	•	0. 42. 41.
develop USYS 0 0 11, 2, 5-16, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12		Maintain and								
for 0.14 0 15 7 9 11 11 res by 55 0 5 21 10 15 7 9 11 11 res by 55 0 0 5 21 10 15 7 9 11 16 21 16 21 16 21 16 21 16 21 21 16 21 16 21 21 16 21 21 16 21			77777	-			USPS	¢		1, 2, 5-16, 18, 19, 21_34, 54, 35, 34, 35, 34, 47, 47, 47
NG NG NG NG are by 5 10 5 21-33, 35, 37 are by 0 5 21-33, 35, 37 37 are by 0 0 5 21-33, 35, 37 are by 0 0 5 21-33, 35, 37 by 0 0 1 0 5 by 0 0 1 1 40, 41, 46 by 0 0 1 2 39 by 0 0 1 2 33 by 0 0 1 2 33 by 0 0 0 3 33 by 0 0 1 2 33 by 0 0 0 3 33 by 0 0 0 3 33 by 0 0 0 3 33 by <td< td=""><td></td><td>иете 10р Хаййнаг бан</td><td></td><td></td><td></td><td></td><td>H,IO</td><td>•</td><td></td><td>. 0 11-M</td></td<>		иете 10р Хаййнаг бан					H,IO	•		. 0 11-M
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							ž			
SE 0 0 5 21-13, 35, 17 MCC 0 0 5 21-13, 35, 17 MCC 0 0 1 9-13, 16, 21-23, 35 MCC 0 0 1 9-13, 16, 21-23, 35 MCC 0 0 1 9-13, 16, 21-23, 35 NDOW - - 2 7, 19, 40 NDOW - - 2 7, 19, 40 NDC 0 0 1 14, 46, 44, 44-46 NDC 0 0 1 14, 16, 27 NDC 0 0 1 14, 16, 27 NDC 0 0 1 1 NDC 0 0 0 1 <	-	future use by						0		7. 7. 11. 15. 10, 19, 21-23, 27, 29, 31, 34, 37, 47
CDHC 0 5 21-13, 35, 37 37 VATC 0 0 5 1-10, 14 16, 21-23, 37 VATC 0 0 5 1-10, 14 16, 21-23, 37 VATC 0 0 1 9-13, 16, 21-23, 37 VATC 0 0 1 9-13, 16, 21-23, 37 VATC 0 0 1 14, 16, 21-23 VATC 0 0 2 7, 19, 40 VATC 0 0 1 14, 16, 27 VAT 0 0 1 2, 33 39, 40 VAT 0 0 3 31, 94, 40 40 VAT 0 0 3 31, 94, 40 40 VAT 0 0 3 31, 94, 40 40 VAT 0 0 3 31, 33, 39, 40 40 20, 40 40, 40 20, 40 40, 40 20, 40 40 20, 40 40 40 40, 40 40 40 40 40 40 40 40 40 40	-	ragica.						•		
0 0 1 10 1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>CDHC</td> <td></td> <td>• •</td> <td></td>							CDHC		• •	
0 0 1 9-13, 16, 21-23, 13 0 0 2 7, 14, 16 0 0 1 14, 16 0 0 1 2, 39 0 0 1 2, 39 0 0 1 2, 39 0 0 1 2, 39 0 0 5 19, 16, 27 0 0 5 10, 14, 16, 27 0 0 5 10, 14, 16, 27 0 0 3 3-10, 12, 13, 39, 40 10 16 17, 13, 39, 40 10 16 16, 12, 13, 14, 2 10 16 16, 12, 13, 14, 2 10 0 13, 42 10 16, 12, 13, 14, 2								0	• •	5
0 0 2 7 14 16 0 0 1 14 60 41 44-66 0 0 1 7 39 40 41 0 0 1 7 39 40 41 0 0 5 7 19 40 40 0 0 5 7 19 40 40 0 0 5 7 19 40 40 0 0 5 7 10 14 16 20 0 0 1 5 10 12 14 2 1 0 1 5 10 12 14 2 1 1 5 1 12 14 2 1 0 1 5 13 39 40 1 1 4 16 12 14 2 1 1 4 16 12 14 2 1 1 4 4 4 4 4 1 4 4 4 4 4 1 4 4 4 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>UNN</td> <td></td> <td>, .</td> <td></td>							UNN		, .	
0 0 2 7 14 16 0 0 1 1 90 61 44-66 0 0 1 2 39 40 0 0 5 7 19 40 0 0 5 7 19 40 0 0 5 10 14 16 20 0 0 5 10 14 16 20 0 0 3 5-10 12 15 14 2 0 0 3 5-10 12 15 14 2 0 0 3 3 30 30 40 10 10 13 40 3 3 40 0 0 3 3 3 40 3 0 0 3 3 40 40 40 0 0 16 40 40 40 0 0 16 40 40								•	_ ' _ '	7-11, 10, 21-23, J7
0 2 7, 14, 16 0 0 1 14, 16 0 0 1 14, 16 0 0 1 14, 16 0 0 5 7, 19, 40 0 0 5 7, 19, 40 0 0 5 10, 14, 16, 27 0 0 5 10, 14, 16, 27 0 0 15 5-10, 12, 15, 18, 20 0 0 15 35, 37 10 16, 42 35 10 16, 42 0 0 16, 40 0 16, 40 0 10 0 10								' ,		
0 0 1 14, 40, 41, 44-46 0 0 1 2, 39 0 0 5 7, 19, 40 0 0 5 10, 14, 16, 27 0 0 15 3-10, 12, 15, 14, 2 10 be determined 18, 42 10 be determined 18, 42 10 0 0 10 1-6, 10								•	5	7, 14, 16
0 0 1 7, 39 0 0 5 7, 19, 40 0 0 5 7, 10, 14, 16, 20, 0 0 5 10, 14, 16, 21, 0 0 5 10, 14, 16, 21, 0 0 15 7, 33, 39, 40 0 0 15 5-10, 12, 15, 14, 2 0 0 15 35, 31 10 16 16 12, 15, 14, 2 10 16 16 16 0 0 16 16								÷.	-	18, 40, 41, 44-46
0 0 5 7, 19, 40 7, 10, 14, 16, 20, 0 0 5 10, 14, 16, 20, 7, 31, 39, 40 0 0 15 5-10, 12, 15, 14, 2 10 be determined 10, 42 10 be determined 10, 42 10 0 10 1-6, 10							4MM	•	- 0	2°.39
0 0 5 10, 14, 16, 20, 10 5 10, 14, 16, 27 0 0 15 5-10, 12, 15, 14, 2 15 17, 33, 39, 40 15 11, 12, 15, 14, 2 16 be determined 18, 42 10 10 1-6, 10							S	ç	~ •	7, 19, 40
0 0 5 10, 14, 16, 27 • • • 7, 33, 39, 40 0 0 15 5-10, 12, 15, 14, 2 • 5 35, 37, 37 0 10 15 40 0 0 10 1-6, 10							Ŋ	•	•	
0 0 15 5-10, 12, 15, 14, 10 0 15 5-10, 12, 15, 14, 15 15 16, 10, 12, 15, 14, 15 16 16 18, 42 10 16 10 16, 10							ACE	•	~ ~	10, 14, 15, 27
0 0 15 5-10, 12, 15, 14,							A I U	٠	*	7, 33, 39, 40
to be determined 18, 42 10 be determined 18, 42 10 10 1-6, 10							ž	•	5	. 12. 15. 14.
to be determined 10, 4							NSP	•	•	
To be determined 18, 4 							404	•	•	, c
••••• ••••							0.1A		st e rutaei	
• • •							1SI	•	•	
0 0 10 1-6,							400	•	•	01
							MONE			

* Costs shoorbed by other programs.

۰.

,

٠

-

.

•

- ' .	•	i i				Sinal Mir. A usi	Scn. J.		al Y-al		Compute (Nimbers Pater to romes to which trades alonging
4108-10 1	Caregory Plan Tank Mo. Pelorly (years) Region		Priority	(yrare)	H-B tou	Program (When FY)	thi her	· .	1 FY2 F	674	l epieeented)
ž	Ventrist human		_	Checthe			SASU	641	691	164	1, 2, 5-19, 21-26, 20, 32, 35-39, 41-66, 46
	distant transferration		•	ć			N IN	•	••	e	7, 11-14, 16-28, 34-47
											1-11, 13, 16, 18, 19, 21-23, 27, 29, 33-37, 39, 40, 43, 44, 47
					-	SII.		É	ç	9	
					_	1.15		~	<u>~</u>	~	
					¢	đ		•	~	~	
					£	1		-	-	•	
		•					040.2	Ŷ	^	÷	21-33, 35, 37
								99	24	ŝ	1-10, 16
							2400	-		-	9-(1, 16, 21-21, 37
							2000	•	•	•	ji-ji
							(HIT)	۲.	٦.	~	7, IR
			1				112	~	~	~	19, 19, 4D-46
							67. M	, ,*	-	-	7, 18, 38-41, 47
							NPS	~	<u>.</u>	ŗ	1, 2,6, 7, 11, 18, 22, 24, 26, 33
							SHIR SHIR	-	-	-	7, 10, 14, 15, 23
							ACE.	~	~	Ň	7, 10, 14, 15, 27, 20
							1.00	t V	To be determined	l ned	13, 16, 1A, 19, 30, 37
							5	*	*	•	18, 20
							15N	-,	-	7	y, n
							90F		Ŷ	\$.5 t0
							MDNR	۰.	~	2.5	2.5 1-6, 10

۲

• •

Costs shorted by other program.

,

66

			•	:	2	pung hile	A 111-414		Then Year	۱ !	
General Calegory,	Georral Galegory Plan Taut		Frierity	Tauk Duration No. Priority (years)	Reg Ou	PUS Region Program uther		2 2	(11) (11)	EV.	Communia (Mumbhra reter to avaem in which tasks abouid he [sp]emouted)
12	Monflor threats 2.1]	1.11	7	Ougoting			2420	2	R	ŧ	
	and charges to			I			N R	÷	÷	7	
	habitat.						Si 4				
					-	ALK		^	~	^	
					-	3		Ŷ	~	~	
					÷	Ň		m			
					•	ŝ		-	-	-	
							CDPC	~	÷	~	
							NIIC	~	~	~	
							ODPU	-	-	-	
							NOON	•	٠	٠	
							1 DMC	2	1.1	1.3	
							701	•	•	•	
							UVUP	-	-	-	
							NPS	~	^	~	
							B UTH	•	•	•	
							ACR.	~	~	~	
							BLA	*	٠	•	
B)	Complete 2	2.121	-	~			SASU	Ż	21	71	
	ideal if lest foo						N LIN	-	7	-	
	of Important						Ş				
	characteristics				-	82 - 7		ĥ	~	÷	
	of pearing				-			~	'n	ŝ	
	ha bitet.				÷	56		~	~	~	
					۰	ß		~	~	<u>ب</u>	
							CDMC	m	-	m	
							NDC	£	2	£	
							1400	ж £	deternlard	elard	
							104C	Jo be	deternined	el ned	
							nor	-	-	-	
							AMM		-	-	
							NPS	-	n	-	
							ACE	2 2	To be determined	hined	
								_	_	-8	

* Costs absorbed by other programs.

96

.

۰.

Control Lut Lut Lut Control Contro Contro Contro		•			•		witter I. I. A	SPICY.					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	turner († Later 19		Tank No	beinelte	buat len (vears)	Hr.	1 Treeron	il lier	÷.		1	Commente (Numbere tefet to zones la which tanks sko) be teblemented)	
freeplate 2.122 1 5 100 100 100 100 100 100 100 100 100							4		i.				
Interfact (Interfact) (I) (I) (I) (I) (I) (I) Interfact (Interfact) (I) (I) (I) (I) (I) (I) (I) Interfact (Interfact) (I) (I) (I) (I) (I) (I) (I) (I) Interfact (I) (I) (I) (I) (I) (I) (I) (I) Interfact (I) (I) (I) (I) (I) (I) (I) (I) Interfact (I) (I) (I) (I) (I) (I) (I) (I) Interfact (I) (I) (I) (I) (I) (I) (I) (I) Interfact (I) (I) (I) (I) (I) (I) (I) Interfact (I) (I) (I) (I) (I) (- <u>-</u>	(amplete	2.122		Ŀ			111115	ĥ	25	16		•
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		librar H licar Inn						I I	Ê	Ξ	æ		
Offerential 1 <th< td=""><td></td><td>of important</td><td></td><td></td><td></td><td></td><td></td><td>i n</td><td></td><td></td><td></td><td></td><td></td></th<>		of important						i n					
of creation 1 <th< td=""><td></td><td>riaracteristics</td><td></td><td></td><td></td><td></td><td>đ</td><td></td><td>-</td><td>-</td><td>-</td><td></td><td></td></th<>		riaracteristics					đ		-	-	-		
reneting 6 50 Lubbitation 6 50 Lubbitation 1000 Lubbitation 10000 Lubbitation 1000 Lubbitation 10000 Lubbitation 100000 Lubbitation 100000 Lubbitation 100000 Lubbitation 100000 Lubbitation 100000 Lubbitation 100000 Lubbitation 1000000 Lubbitation 100000 Lubbitation 10000000 Lubbitation 10000000 Lubbitation 1000000 Lubbitation 10000000 Lubbitation 1000000 Lubbitation 100000000 Lubbitation 100000000 Lubbitation 1000000 Lubbitation 10000000 Lubbitation 100000000 Lubbitation 100000000 Lubbitation 10000000 Lubbitation 100000000 Lubbitation 100000000000 Lubbitation 1000000000000000000000000000000000000		of removal				-	RD.		-	-	-		٢
Lichtral 6 10 100 100 100 100 100 100 100 100 10		rmating				÷	als.		-		_		
CBFC CBFC CBFC CBFC CBFC CBFC CBFC CBFC		lishing.				£	КÞ		-	-	_		
Under the second								Deter	~	~	۶.		
Decument dien 2.123 2 Bakanam Krister								NDC:	ŝ	£	÷		
NICH NICH								U-4U0	1		Ŷ	-	
IPN: The second distribution of the second distr								NIXIN	Ċ.		?		
Mark Mark Constant diete 2.123 2 Nohmmen Erste were were and forenting and forenting and forenting and forenting and requirements of held engine and require and require the mark of their sectors of their sector								1001	ž	deter	e l'une		
Provident dieter 2,133 2 Nohmmen Killer Kill								THE P			~		
Portament diern 2.123 2 Noknown Mickes Anta and forenting and forential								41144	•	•	•		
Decisient dieta 2.123 2 Nakonen Deses a Nick a and foreging treates 2.123 2 Nakonen Deses a requirementa of held engline and require num require species. 5 Aun 10 6 Aun 10 6 Aun 10 6 Aun 10 6 Aun 10 7 0 6 Aun 10 7 0 8									÷	2	4		
Persavent dieta 2.123 2 Unknown USES - NIA									• •	- •	. •		
Berussent dieta 2.133 2 Nokanan Kiki 10 and forenting requirementa of hald engina and require entra of their net require neer of their net to be their net to be to be t									•		2		
Borument dieta 2.123 2 Nakarum 1555 - 1134 10 and forenting trequirementa requirementa of held engine and require enote of their net require net to their net of								V.14	•	*	•		
and foreging requirements of held engine nucl require and require mol require for any respected not their for any respected not their for any respected not their for any respected not their for any respected not the respected no	ť ¥		2.123	2	Not north			SH54	•	•	٠		
				1				H.H	Ŷ	0	9		
		requirements						SNA					
		of held emire				-	AUR		9	e	ŝ		
A 44 A 44 A 44 A 44 A 44 A 44 A 44 A 44		and require-				-	ци П		9	Ē	9		
40 CD 70 CD 70		erote of their				÷	¥74		2	2	2		
Check To be the term of te		an In prey				÷	C N		¢1	9	6		
AUC: 50 AUC: 5		aperles.						CDPC	To be	_	afned		
111 2237777								С С	5		5		
<u>لالا</u> 222°1ء -								00FW	1 1	_	74		
529°°°9								NUM	-	•	Ŧ		
11 222~~								11PC	-	••			
11 222°								100	-	-	-		
11 222								ê Li	ŝ	ŝ	ŝ		
4 29								NPS	يد 12	_	el ned		
10 ID								Ĩ	1 1 1	_	al ned		
								ACE	c]		0		

. •

.

* Chate shaothed by Other programs.

16

. .

. • ·

General Task Task Mo Getr <u>wory</u> Plan Task Mo H Identify 2.12 angratory pathways and habitae trquirements of angration breedion, regies.	Priority	burne tuu (yeara) R Oogo tug V	Duraction PMS Other FY1 FY2 FY3 (years) Koglon Program Other FY1 FY2 FY3 (years) Koglon Program Other FY1 FY2 FY3 Ougoling USFS 14 16 14 14 Ougoling USFS 14 20 20 20 1 NU 20 20 20 20 20 1 NU 20 2	Other USES USES USES USE USE USE USE		Mill Hv2 Mill Hv2 14 14 14 18 14 14 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 21 15 15 25 25 20 26 20 20 20 20 20 21 15 15 27 25 25 27 27 2	1mp[+mentrel]	(month of the second of the se
	24 2	Oc.go Ing		VIST CONTRACTOR CONTRA	₩ 2222222 ₩	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
ldeutify migratury pathways and habitat trquiremente ol migratiog nud hou- breediog regies.				или Срес Срес Или Или Или Или	**************************************	20 20 20 20 20 20 20 20 20 20 20 20 20 2		
migratory parimenya and habitat requirementa ol migratiog and hoo- breediog regies.				CPPC CPPC CPPC CPPC CPPC	. 255555 			
pathways and habitat trquirements ol migratiog and hoor breediog regies.			2 4 9 4 KU	CBMG MBG NBGM NBGM NBGM	2222222 7 2222242			
habitat rrquirmente ol migratiog and boo- brediog regies.				CDING VENC URV URV URV URV URV URV	887584-, 44. 7 887588			
rrquiremente ul atgratiog nnd nua brrediog regles.		,		CPING VERG VERG VERG VERG VERG VERG VERG VER	8752			
ol atgratiog and boor brrediog ragies.			2	CENC VENC VENC VENC VENC VENC	1252-144. 7 1252			
and hoa- breedsag regies.			2 2 2	VEV VEV NON NON	192 - 77 2 222 - 77	steratord 5 25 5 5		
brredia g regies.				NON NON NON		A		
ragles.		,		NON NON NON				
9		,	·	1014 1.P	· •	· · ·		
		,		1 DAG	'			
		,		1.PFC	' -	- • • -		
		,		7.2	• •			
						•		
				MVV	•	•		
				VAN	to by de	det ermined		
					To be de	determord		
					1			
				AL. C.				
		-		USPS	61 61	6		
E3 Investigate the 2.625	7 21	Ser of the		BI.M	3	s 15		
intluence of				PUS				
human dietur-			15 15		10 10	01 0		
beace on build					00 01	01 0		
eagles.						01 01		
					10 10	0 10		
				CDHG		det eroloed		
				202	12	2 12		
				MAND		v		
					•	•		
				1 DMC	Tobed	To be determined		
					•	2		
				Ŷ	. 9	• •0		
					: -	 		

Costs absorbed by other programs.

Plan Text An. Plan Text Region Firstand Investery the 1.311 2 Matrix Matrix Investigation 1.411 2 Matrix 1.4 Investigation 2.4 1.4 1.4 1.5 Investigation 2.4 1.4 1.4 1.5 Investigation 2.4 1.4 1.4 1.5 1.4 Investigation 2.4 1.4 1.4 1.4 1.5 1.4 Investigation 2.4 1.4 1.4 1.4 1.5 1.4 Investigation 2.4 1.4 1.4 1.4 1.4 1.4 Investigation 2.4 1.4 1.4 1.4 1.4 1.4 Investigation 2	rame -						THE PLANE	Rentantinitatie Agency	ļ	Flacel Years the cont		ramman reading and a second second second second
Investory the 2.211 Z thereit is the 2.211 Z thereit is and the seventher 2.211 Z thereit is the seventher i		Plán Tesh		belor Ity	(1444)	Neg I.			:	Ē	E	the state of the second of the
heereflage popu- ial field and determine annual produc- sound produc- tienty	=	Inventory the		~	the first state			tises		Æ	Ē	
At evalue around production traiters traite		hteeding popu- tatink and							2	5	1	
around preduc- 1 erity. 1 erity.		determine				-	AUR	ŗ	Ξ	6	Ξ	
There is a second secon		annul produc-				-	1		9	e	₽	
A construction of the second s		tletty,				£	5		•	'n	•	
Close of the constraints of the						¢	H.		•	-	~	
Hently und 2-212 2 Dugology 12 14 14 24 14 14 14 14 14 14 14 14 14 14 14 14 14								2HQ:)	-	-	~	
The second secon								Ë	¥.	S .'	S.	
There is a second secon								DDFW D		•	-	
How the set of the set								ind i	••	*4	r ., .	
Identify und 2-212 & Theorem 2									-	~		
Hen the under the set of the the set of the the set of								475H	•••	ε.	4	
Identify and 2-212 & theorital lists and the first the monitor the								54N	*-	ع ذ	æ	
Identity and 2-212 & theorital, 1-212 & theorital,								A IN	•4	~	~	
Monter the monter many relations in the monter many rel	_	there is a second second	•	-	1				-	=	:	
₩ ₩ ₩ ~ -		tion tor the	-	4						2	: *	
		atte and dis-				-	4	SNA		•		
		a riber lation				••	Ę		-	•	-	
¥. e ∉		telatering				-	23 -		•	•	in i	
		ribulations,				• 4	,			•		
						5	÷		•	•	•	-
								₿Ì	10 -	***	.	
									-		-	
									•	-	•	
									-	**	-	
								Ì				
ata i i i								NCE.			• ••	
								¥1k	-	-		

à tosta absorbed by other programs.

£

. . .

•
									Ň				
General Category	General Fategory Plan Zamb	T.	Print	33 2	Teek Duracion No. Privrity (years) N		Duration PMS (veara) Newfon Program Other		(\$1,000)		ι. M	Guiment	Comments (Numbers refer to somes in which tasks should be Inclemental)
		1		ļ		4				1	-		
ž	Jorate and	2.213	~	ē	font laufag			USES	~	~	¢		
	-tady popula-							111	2	2	2		
	tions of 200-							594					
	bredios esales						Q		2	2	,		
	durine the	1				. 4	į		2	2	; 3		
						•			2	2	2		
	breeding							CDHC	ă ₽	, dete	The fact		
	####00.							ίų.	2	2	25 25		
								7.400					
								NOON	•	-	•		
								240 J	*	•	•		
									٠	•	-		
									•	•	•		
									I	•	•		
								NPS.	•	•	•		
								ž	-	٠	•		
								ACF.	Ŷ	~	~		
\$ 2	Document mor-	2.216	~	P	Ongotan			лс.					
	tality rates					м	SR		2	2	ĩ		
	of regies.					-	9		5	2	2		
						•	SE		9	2	10		
							8		5 0	10	10		
								KIN	8	•	ع ې		
								CDPC	-	-	-		
								ğ	ې ۲	To be determined			
								71.400					
								NON	•	•	•		
								2 DMC	م 1	to be determined	'aloed		
								NG*	~	~	~		
								erse N	i F	To be determined			

* Costs absorbed by other programs.

.

•

χ.

•

-

	ीक्यान्य तीक्षी के बीचना के बात कि स्थान संस्थान के बिल्लान के बात के स्थान
ade Berthall Berthal Berthall y terrar ba	-
A CONTRACT OF	
	215 2 2
	CDFG I P I
	211 N 10 10
	- + + -; J
2 Ongerting	l'W-
	20 20
	MF 15 15 15 15
	7 7
	NOOM * * * *

. . *

٠

.

fasts absorbed by other programs.

.

To be detendined

UP UP

101

.

						Reaponal Lie Agency	Lenry.	Line .	Florel Year		,	
General Category,	Ptan Tauk	ži	Priority	Privily (years)		FLAN Program	ther.	(1000 (12) (1000) 1000 - 1000	\$1,0000 FY2 FYD	ļ		(Mastera relet to succed to which lasks sho Smptemented)
4P	tilentity be-	100.0	~	tinà ao sa			1.575		li he det ver			
								1		50		
	Rene In Con-						Net A					
	etraints that				~	ЧЧ М		Ξ	÷	9		
	way influence				ع	à		~	~			
	rates of re-						CDMC	۲ ۲	To be detucation			
	boe not tet upwe						5	ير ا ار ا	To be default of			
	i le ancrea a							: ;				
							2400					
	relativelaction offeres						E Sec	Å.	To be drivelard	Þ.d		
							à	•		•		
							NPS	to br	To be determined	ned		
6	Develop public	-	~	link notes			940 M		:			
	Information		1									
								20	_	_		
	programa.						÷.					
						Э.		~	<u>ب</u>			
					•	SE		~	-			
							CDMC	~	-	<u>م</u>		
							NDC	÷	-			
							ODPN	~		. ~		
							New					
							CHOI	-				
								-				
								• •		_		
							¥	-	-	_		
								 ^	~			
							5	Å Å	del ermined	Ę		
							AID	-	_			
								,				

Conte absorbed by other programs.

2

•

-

-

.

۰.

.

				Responsible Agency	mathle A	1.004	P1 ar	Placal Tear	<u> </u>		
tranga) Category Plan Task	Taet Ko	briarite	Dyrat Ion (years)	Puis Realing Program Others	Pi ner An		12			Coments -	Comments (Numbers refer to zones 16 which tasks should be reserved)
				đ	đ						
le ler	3,2		Omgolng			ź					
ite atate				-	1.1 1		ž	R	2		
riera !				-			~	7	<u>م</u>		
- Agie protect.				¢	н Н		-	-	~		
floria.				£	42		ĥ	~	-		
						CBD	*	=	•		
						5	9	5	ţ		
						7400		2			
						NIX M	•	•	•		
						E PHC	•	٩	•		
						1.15	•	Ŧ	•		
						HFUP	•	•	•		
						RIA	٩	•	٠		
						NUF	~	~	\$		
						Ann	~	1	2		
Provide aur-	Ľ,	2	Ongo1 ng			USPS			_	15, 18	
nre at						H N	-	-	_	E	
er lect ed						Sna				1-10, 15,	1-t0, 15, 10, 22, 38
ta.				-	1.1		2	22	1		<i>.</i>
				-	SE.		2	=	9		
				÷	371		2	15	≎		
				÷	SE		,r	-	5		
						NOR NOR	To be	To be determined	alord	5	
						244	5	To be determined	1	-	

, **,**

ŧ,

⁴ Conta absorbed by other programs.

103

				, .						
General Galegory Plan Taok	ž 2	Priority	Task Briotity (years) New New	Negton F	Region Program Other	Berley Other		(11,000) (11,000) (11,000)		Commercial Numbers refer to tones to which tasks should be Included to
Há Kedur ragje mortallty assoriated with shuoting and trapplag.	л ;	- ·	ороди При При При При При При При При При При			LISPS Para Para Para Para Para Para Para P	**	**	· · · · · · · · · · · · · · · · · · ·	2, 2, 5-7, 21, 23-26, 26, 35 14, 24, 28 1-1, 99-46 2, 15, 31, 31 2, 14, 15, 31 2, 14, 20, 31 14, 19, 40-46 2, 18, 19-41, 47 2, 18, 19-41, 47 2, 18, 19, 40-46 2, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
Kk kedure er- pomure of bald rugles to couleminants.	4.12	 -	, La	- •	UE CJBELJEZEJEZ	USPS BIJA PUSP PUSP COPC COPC COPC COPC COPC COPC COPC CO		20 20 20 20 20 20 20 20 20 20 20 20 20 2		
					10	0100	2 ~	= -	- ÷.	

.

* Conta absorbed by other programs.

Ξ

•

. .

۲.

.

-				Perst Ion	Respective for the full for the	inie M	7 JU J	÷ ++	Teral Teal (\$1,000)		Commercia (Numberra refer to somen its which tanks sho be
totegory	tuteguey (then Tank		Princity	(years)	Mn. Prinelly (years) Regim Program Other 191	office	01 ler	(A.			lapienented)
Ī	Reduce Lapari 4.11 2	4.11	2	Ո ոջ օքոր			SASI	2	æ	E	1, 2, 3-2, 9, 11, 15, 18, 19, 23-26, 28, 30, 35, 39, 6J, 45, 46
	and electro-						BLH	5	¢	~	7, 9, 14-20, 23-30, 34-43, 41,
							2				1-14, 16, 18, 19, 21-27, 29, 33-37, 39-46
	ann at 117 anns 121 an ad 114 bh	4			_	E		5	-	ţ	
		5				đ		5	Ë	~	
					,		C104.02	•	•	•	21-11, 15, 37
							ЧУ.	•	•	*	
							LINE U	To Pr	To be determined	atard	7-14, 16, 21-23, 37
							NPASH	•	٠	٠	jul-12
							11 15	•	Ŧ	•	18, 19, 40-46
							AL-14	•	Ŧ	•	7, 40, 41
							N P	٠	Ŧ	٠	1, 24, 11
							Pink A	-	-	-	3]
							MIA	*	*	•	7, 79, 40
							V.18	Ŧ	•	٩	1
Ŷ	Refucht lithte sick, in jured, and orphan caster for	41.4	-	000 ng							To be marted in FY-4 If hecessary
	releane Into the vilid.										

, •

•

* Cnata absorbed by other programs.

.

105

•

					Heel .	Responsible Agency	Benry	E E	Flacal Vear		
General Galegory	General Galegory Flan Tauk	ź	Priority (yeare)	Duration (yeare)	Region P	MS OTHER		tti (‡)	(1) (100)	(M	Cummenta (Mumbers refer to zones (a which tanks abouth be fablemented)
Ŧ	Enhance	4.21	÷	ĥ			54				To be started to W-4 16 measure
	product lylty of	<u> </u>			-	ALK		¢	0	0	
	patro neutlog				-	æ		•	-	•	
	to the utid.				•	AVR		•	¢	¢	
					÷	St.		-	•	0	
							CDHC	•	0	9	
							AHQ0	•	•	-	
							1 DMC	-	•	•	
							400	•	0	c	
							NPS	Q	• •	•	
Ŷ	Estabilsh pre	4.22		Oseotne			244				
	breeding popu-			•		N NY	•	0	•	¢	
	Lationa by				_	SI:		Ŷ	o	÷	
	t ranglocat for.						CDFC	2	2	9	1
							₩.	¢	0	0	
							NDON	•	c	•	
							1 PMC	•	•	0	
							ACK.	•	0	0	
							NPS	•	•	•	JE
ũ	Develop captive 4.23	62.4	-	Ongo i ng			ŝ				•
	breeding			ı İ	_	56			~		
	program to				•	SE		~	~		
	ouppleasat						CDRC	0	0	0	
	seture: , ,						00+X	•	ċ	0	
	populat loas.						396	•	•	•	
								¢	•	,	

* Costs absorbed by other programs.

,

÷

÷

۰.

.

: <u>.</u>

. .

•

APPENDIX A

. •

.

- <u>Main Threats</u>: Logging, shooting, increase in recreational use, oil spills, housing and industrial development, siltation in spawning tributaries, prey declines.
- <u>Proposed Management Direction</u>: Protect nesting, feeding, and roosting areas. Enhance prey populations. Control shooting of eagles. Prevent oil spills. Discourage human disturbance. Increase law enforcement.

Responsible Agencies	Mos	t Urgent Site-s	specific Tasks
National Park Service	1.21, 1	.3211, 1.3215;	
Forest Service	1.311,	1.332, 1.333	
Fish & Wildlife Service Washington Dept. of Game Army Corps of Engineers Woodland Park Zoo Environ. Protection Agency WA Dept. Natural Resources Washington Dept. Fisheries			
	Existing	Target Recovery	Current Wintering
<u>Key Areas</u>	Territories	Territories	Population
Naselle & Williapa Rivers WA. Coastline, Willapa Bay,	2	1	10
Gray's Harbor Copalis, Humptulips, Wishkah,	8	4	20

1

5

22

7

19

4 68

Wyanoochee & Chehalis Rivers

Quinault Indian Reservation

Olympic Natl, Park Shoreline

Makah Indian Reservation

Clearwater, Hoh, Bogachiel, Calawah, Soleduck, Big &

Strait of Juan de Fuca

Hoko Rivers

Total	Target	å	Existing	Territories -	101

Habitat Management Goal - 101

33

7

5

8

2

Ò

30

25

30

30

30

30

Main Threats: Logging and increased recreational use.

, **.**

,

Proposed Management Direction: Protect mesting, feeding and roosting habitat.

Responsible Agencies	Most Urgent Site-specific Tesks
National Park Sercie	
Forest Service	1.32, 1.3211, 1.3215,
Fish & Wildlife Service	1.331, 1.332, 1.333
Washington Dept, of Game	
National Park Service	
Army Corps of Engineers	
Woodland Park Zoo	
Environ. Protection Agency	
Wash. Dept. Natural Resources	
Washington Dept. Fisheries	

<u>Xev Areas</u>	Existing Territories	Target Recovery Territories	Current Wintering Population
Olympic National Park Olympic Natl. Forest	0	7	¢
(north & west portions) Olympic Natl. Forest	5	5	10
(south & east portions)	<u></u>	$\frac{3}{15}$	20

Total Target & Existing Territories - 23

Habitat Management Goal - 23

Main Threats: Logging and shooting.

Proposed Management Direction: Identify and protect nesting, feeding, and roosting habitat.

Responsible Agencies	Most Urgent Site-specific Tasks
Fish & Wildlife Service Washington Dept. of Game Army Corps of Engineers Environ. Protection Agency Wash. Dept. Natural Resources Washington Dept. Fisheries	1.21, 1.3211, 1.3215, 1.331, 1.332, 1.333
Manuration Debet Ligueties	

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering Population
Chehalis R., Oşkville, Elma,			
McCleary & Matlock vicinit	:y 5	0	10
Cowlitz River	3	0	5
Toutle River	1	0	5
Elochman Ríver	1	0	0
W. Fork Grays River	1	0	0
	11	0	

Total Target & Existing Territories - 11

Habitat Management Goal - 11

۰.

- Main Threats:Rapidly expanding human growth and recreational use.Housing and industrial development.Increased human disturbance.Overexploitation of fish resources.Logging, shooting, harassment.Loss of habitat.Contaminants in ecosystem.Lead poisoning.
- Proposed Management Direction: Protect nesting, feeding, and roosting areas. Enhance prey abundance and availability. Discourage human disturbance. Increase law enforcement.

Responsible AgenciesMost Urgent Site-specific TasksForest Service1.21,Fish & Wildlife Service1.3211, 1.3215,Washington Dept. of Game1.331, 1.332, 1.333Army Corps of Engineers1.331, 1.332, 1.333Environ. Protection AgencyWash. Dept. Natural ResourcesWashington Dept. FisheriesTarget

Key Areas	Existing Territories	Recovery Territories	Wintering Population
Hood Canal	13	6	70
South Puget Sound	10	0	20
Kitsap Peninsula, Vashon Island	8	1	25
North Puget Sound	37	0	70
San Juan Islands Padilla, Samish, Bellingham,	83	3	100
Lumi & Birch Bays	10	2	70
	161	12	

Total Target & Existing Territories - 173

Habitat Management Goal - 156

- Main Threats: Logging, increase in human development and recreational use especially on shorelines. Elimination of salmon runs. Overexploitation of fish resources.
- Proposed Management Direction: Protection of nesting, feeding, and roosting areas. Strict enforcement of wildlife laws. Enhancement of salmon runs. Discourage human disturbance in eagle use areas.

Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service Fish & Wildlife Service Washington Dept. of Game Army Corps of Engineers Environ. Protection Agency Wash. Dept. Natural Resources Washington Dept. Fisheries	1.21, 1.321, 1.3215, 1.331, 1.332, 1.333

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering Population
Thurston-Pierce County Area	4	0	20
Nooksack River	2	0	400
Skagit River & associated drainages	4	1	400
Snohomish, Skyomish á	_		. .
Snoqualmie Rivers	2	2	70
Green & White Rivers	1	1	10
Lake Washington & Sammamish L.	$\frac{3}{-16}$	<u> </u>	12

Total Target & Existing Territories - 20

Rabitat Management Goal - 17

Zone 6. Cascade Mountains (WA)

<u>Main Threats</u>: Logging, shooting, increased recreational development. Industrial and housing development.

Proposed Management Direction: Protect nesting, feeding, and roosting sites. Enhance prey populations. Strict enforcement of wildlife laws. Restrict human activity where in conflict with eagle use.

Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service BLM Fish & Wildlife Service	1.21, 1.3211, 1.3215, 1.331, 1.332, 1.333
Washington Dept. of Game National Park Service Army Corps of Engineers Environ Protection (constant)	
Environ. Protection Agency Wash. Dept. Natural Resources Washington Dept. Figheries	

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering Population
Klickitat River	0	1	5
Rock Creek	¢	0	S
Glade Creek	0	0	5
Yakima, Naches, & Tieton Rivers	1	1	25
Lake Chelan	0	5	5
Wenatchee River	0	2	5
West Fork, White River	Q	0	5
Green Mountain Range	8	7	25
Skagit River-Bacon Cr Border	0	Ó	25
Upper Skagit Res. & Baker Lake	_ 1	1	25
	10	17	

Total Target & Existing Territories - 27

Habitat Management Goal - 27

- Main Threats: Logging. Loss of perching and roosting trees. Streamside and shoreline development. Recreational use. Shooting. Use of rodenticides. Unstable kokanee populations. Extreme water fluctuations. Dam construction., Mineral exploration and mining. Road realignment and construction.;
- Proposed Management Direction: Locate nesting and feeding areas. Protect and enhance perching and roasting areas. Stabilize water fluctuations. Maintain and enhance prey populations, especially waterfowl and kokanee salmon. Regulate and monitor human disturbance. Seek landowner cooperation in habitat protection. Acquire threatened habitat, and call for moratorium on development in key eagle use areas. Enforce existing laws.

Responsible Agencies

Most Urgent Site-specific Tasks

Forest Service
BLM
Fish & Wildlife Service
Washington Dept. of Came
Bureau of Reclamation
Idaho Fish and Game
Montana Fish, Wildlife, Parks
National Park Service
Army Corps of Engineers
Bureau of Indian Affairs
County
Environ. Protection Agency
Bonneville Power
Wash. Dept. Natural Resources
Wash Dept. Fisheries

1.21. 1.3211, 1.3214, 1.3215, 1.331, 1.332, 1.333, 1.334, 4.11, 4.123

Kev Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering Population
	<u></u>		20
Rufus Woods Lake (WA)	I.	7	30
Okanogan & Similkameen R. (WA)	1 .	1	10
Spokane & Little Spokane R. (WA		, <u>2</u>	15
Kettle River (WA)	· 0	1	5
Pend Oreille R.; Calispel &	1	2	15
Sullivan Lakes (WA) Colville River (WA)	0	1	5
Methow & Chewack R. (WA)	ō	1	15
Franklin D. Roosevelt	1.	2	40
á Twin Lakes (WA)			
Clark Fork River (ID)	· 2	0	
Kootenai River (ID)	2,	0	40
Wolf Lodge Bay (ID)	0	1	60
Pend Oreille Lake/River (ID)	2	2	120
Bitterroot River (MT)	2	4	8

Zone	7		ľ	Continu	ed)	1
------	---	--	---	---------	-----	---

• • •

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering Population
Blackfoot River (MT) Clearwater/Swan (MT) Clark Fork (MT)	6 2 1 7	1 7 6	10 2 32 14
Uppe: Flathead (MT) Flathead Lake (MT) Lower Flathead (MT) Whitefish/Stillwater (MT)	7 6 1 4	0 3 0	32 33 1
Kalispell West (MT) Fisher River (MT) Kootenai River (MT)	4 0 2	0 3 1 2	0 9 32 7
L. Koocanusa (MT) Yaak River (MT) Bull River and Lake (MT) Priest Lake (ID)	0 1 0	1 1 1	0 2 0
Priest River (ID) St. Joe River (ID) Coeur d'Alene River (ID)	0 0 47	$ \begin{array}{r} 1\\ 1\\ -\frac{1}{56} \end{array} $	0 0 0

Total Target & Existing Territories - 103 Habitat Management Goal - 98 Recovery Population Goal - 69

.

.

Main Threats: Loss of perching and roosting habitat on Columbia River shoreline. Continued water fluctuation extremes with resultant bank erosion and prey declines. Proposed dam. Human disturbance: construction, recreation.

Proposed Management Direction: Protect and enhance roosting and perching areas. Stabilize water fluctuations. Enhance prey populations. Discourage human disturbance. Oppose dam construction.

Responsible AgenciesMost Urgent Site~specific TasksForest Service1.21, 1.3211, 1.3215,BLM1.331, 1.332, 1.333Fish & Wildlife Service1.331, 1.332, 1.333Washington Dept. of GameBureau of ReclamationArmy Corps of EngineersEnviron. Protection AgencyWash. Dept. Natural ResourcesWashington Dept. FisheriesAg. Stab & Cons ServiceAgency

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering <u>Popul</u> ation
Hanford Reach (WA)	о	0	20
Rock Island Pool (WA)	с	ŏ	
Wanapum Pool (WA)	õ	_	10
Priest Rapids Pool (WA)	ŏ	0	20
Wells Pool (WA)	Ų	0	10
	1	0	20
Banks, Park, Blue, Lenore & Soap Lakes (WA)	1	1	20
Turnbull NWR (WA) Crab Creek (WA)	0	0	5
otob Cleek (WA)		1	5
	2	2	-

Total Target & Existing Territories - 4

Habitat Management Goal - 4

<u>Main Threats</u>: Riparian logging. Continued loss of perch and roost trees. Human recreation, shooting, trapping, possible poisoning. Loss of anadromous fish populations.

Proposed Management Direction: Locate and protect nesting, roosting, and feeding areas. Protect roost and perch trees. Enhance prey populations.

Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service	1.21,
BLM	1.3211, 1.3215, 1.331, 1.332,
Fish & Wildlife Service	1.333, 4.11
Washington Dept. of Game	
Oregon Dept, Fish & Wildlife	
Bureau of Reclamation	
Army Corps of Engineers	
Environ. Protection Agency	
Washington Dept. Fisheries	

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering <u>Population</u>
Unity Reservoir (OR)	1	0	ο
Grande Ronde River (WA)	0	2	5
John Day River (OR)	0	2	10
Long Creek (OR)	0	0	5
Ukish River (OR)	0	0	5
Powder River (OR)	0	1	15
Burnt River (OR)	0	1	15
Grande Ronde River (OR)	0	2	10
Wallowa River (OR)	0	1	15
Minam River (OR)	0	0	15
Wallowa Lake (OR)	1	0	0
Thief Valley Reservoir (OR)	0	1	0
Phillips Reservoir (OR)	0	1	0
Lostine River (OR)	0	1	0
	2	12	

Total Target & Existing Territories - 14

Habitat Management Goal - 14

Recovery Population Goal - 8

117

- Main Threats: Pesticides. Logging, loss of nesting, perching, and roosting habitat. Declining prey populations. Human disturbance. Shooting, trapping, housing, industrial and recreational development.
- <u>Proposed Management Direction</u>: Identify and protect nesting and foraging areas. Enhance perch sites and prey populations and availability. Discourage human disturbance in eagle use areas. Enforce laws. Determine if pesticides are a hazard.

Responsible Agencies

Most Urgent Site-specific Tasks

Forest Service BLM Fish & Wildlife Service Washington Dept. of Game Oregon Dept. Fish & Wildlife Bureau of Reclamation Army Corps of Engineers Environ. Protection Agency Oregon Dept. Forestry Wash. Dept. Natural Resources Washington Dept. Fisheries U.S. Dept. Labor 1.21, 1.23, 1.3211, 1.3215, 1.331, 1.332, 1.333, 1.334, 4.11

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering Population
Bonneville Pool, Columbia			
River (WA)	0	3	10
Mouth of Columbia to		-	
Bonneville Dam (WA)	10	4	50
Dalles Pool (WA)	0	1	5
John Day Pool (WA)	0	. 0	5
Lover Columbia River			•
-Portland to Mouth (OR)	15	6	100
Upper Columbia River			
-above Portland (OR)	0	8	20
	25	22	20

Total Target & Existing Territo	ories -	47
Habitat Management	Goal -	47
Recovery Population	Goal -	31

Main Threats: Recreation disturbance, logging, shooting, trapping.

. •

.

Proposed Management Direction: Identify and protect nesting, foraging, and roosting areas. Manage for potential nesting habitat.

Responsible Agencies	Host Urgent Site-specific Tasks
Forest Service BLM Fish & Wildlife Service Oregon Dept. Fish & Wildlife Bureau of Reclamation Army Corps of Engineers Bureau of Indian Affairs	1.23, 1.24, 1.3118, 1.3211, 1.331, 1.332, 1.333, 1.334

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering Population
Diamond Lake	1	1	0
Lemolo Lake	1	0	0
Crescent Lake	1	1	10
Odell Lake	2	0	10
Davis Laka	2	1	10
Wickiup Reservoir	7	1	20
Crane Prairie Reservoir	4	1	15
Deschutes River	3	2	20
Eik Lake	1	Ô	0
East & Paulina Lakes	1	1	0
Suttle & Blue Lakes	1	0	0
Metolius River	1	1	0
Lake Simtustus	1	0	5
Crooked River	0	0	75
Lake Billy Chinock	0	1	10
Cultus Lake	Q	1	0
Hosmer/Sparks Lakes	0	1	0
lava & Little Lava Lakes	0	1	0
Little Deschutes River	C	1	0
Tygh Creek	0	1	0
Little Cultus Lake	0	1	0
Miller Lake	0	1	0
Prineville Reservoit	0	1	0
Big Summit Prairie Reservoir	0	1	0
Pine Hollow Reservoir	0	1	0
Ochoco Reservoir	0		0
	26	21	

Total Target & Existing Territories - 47

Habitat Management Goal - 47

.

• •

Main Threats: Logging, human disturbance, shooting.

Proposed Management Direction: Identify and protect nesting and feeding areas. Manage potential nesting habitat for eagles.

Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service BLM Fish and Wildlife Service Oregon Dept. Fish & Wildlife Bureau of Reclamation Army Corps of Engineers	1.3211, 1.3215, 1.331, 1.332, 1.333, 1.334, 4.11

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering Population
Lookout Pt. Reservoir	2	1	10
Hills Creek Reservoir	1	1	10
Fern Ridge Reservoir	1	1	15
Dorena Reservoir	1	1	Ó
Willamette Valley NWR	Ō	0	5
Upper Calapooya River	0	0	10
Mohawk	0	0	10
	1	1	0
North Umpqua River	ō	6	30
Willamette River	õ	1	0
Clackamas River	õ	1	0
North Fork Reservoir	õ	2	0
Detroit Reservoit	Ŏ	1	0
Foster Reservoir	õ	2	0
Green Peter Reservoir	0	2	0
McKenzie River	0 0	1	0
Cougar Reservoir	0	î	Ō
Fall Creek Reservoir	•	3	0
North, Middle & So. Santiam Riv	ers U O	1	ō
Dexter Reservoir	•	2	ŏ
Bull Run Lake & Reservoirs	0 Q	3	ŏ
North & South Umpqua River	0		ŏ
Blue River Reservoir	0	1	ŏ
Cottage Grove Reservoir	0		ŏ
Timothy Lake	0	1	_
Fish/Clear Lake	0	1	0
Waldo Lake		<u> </u>	0
	6	36	

.

Total Target & Existing Territories - 42 Habitat Management Goal - 42

-

57

Ť

•

.

Main Threats: Logging, human disturbance, shooting, pollution.

Proposed Management Direction: Identify and protect key nesting and foraging areas. Manage potential nesting habitat.

Responsible Agencies	Most Ergent Site-specific Tasks
Forest Service BLM Fish & Wildlife Service Oregon Dept. Fish & Wildlife Oregon Dept. Forestry	1 .21, 1.3211, 1 .3215, 1.331, 1.332, 1.33 3, 1.334, 4.11

Key Areas	Existing Territories	Target <u>Berovery</u> Territories	Current Vintering Population
Tillarook Head	1	1	3
Nehalem Bay & River	1	ב	4
Tillampok Bay	1	1	8
Cape Meares	l	0	0
Cape Lookout	1	0	. 2
Cascade Read	1	1	4
Sileiz Bay & River	1	· 7	2
Yaquina Bay	1	l	2
Alsea Bay	ב	L	4
Drift Creek	1	D	0
Siuslaw River Indian Creek	2	1	6 2 2
Siltcoos Lake	1	ב	2
Takenitch Lake	0	נ	
Umpqua River	6	3	10
Tennile Lake	2	1	2
Coos Bay & Inleis	2	1	6
Coquille River	٢	1	2
Cape Falcon	1	0	1
Elk Creek/Nestuccs River	.2	1	5
L itt le N.F. Wilson River	1	σ	2 2
Smith River	2	1	
Sand Lake	1	D	מ
N. Termile Lakes	0	נ	Ð
Yachats River	σ	1	0
Alsea Biver	D	1	0
Kilchis River	0	1	٥
Deadwood Creek	D	1	D
Heceta Head	0	1	0
Netaris Bay	Q	L	0
Triangle Lakz	0	Ŧ	D
N. Fork Siuslaw R.	۵	1	0
Devil's Lare	D	Е.	D
Miari River	0	1	a
loch lake	Ç	l	0

<u>Key Areas</u>	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering Population
Salmon River	0	1	0
Wilson River	0	1	0
Woshink Lake/Cleawox	<u>0</u> 31	<u> </u>	0

Total Target & Existing Territories - 64

e 1

Habitat Management Goal - 64 Recovery Population Goal - 42

Zone 14. Snake River Campyon (DR, ID, WA)

- <u>Main Threats</u>: Recreation disturbance, shopting, trapping, poisoning, logging of roosting/perching habitat, proposed dam, water manipulation effects on fishery, change in food associated with dams.
- Proposed Management Direction: Maintain wintering habitat, establish nesting populations. Identify potential mesting, roosting and foraging areas. Manage water levels on Snake River to enhance prey. Establish new perching habitat.

Responsible Agencies	Most Urgent Site-specific Tasks		
Forest Service BLM Fish & Wildlife Service	1.3211, 1.3215, 4.11, 4.121,		
Oregon Dept. Fish & Wildlife Idaho Fish & Came			
Burean of Reclamation Army Corps of Engineers Idaho Power	· · ·		

County

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering Population
Brownlee Reservoir (ID)	0	1	20
Brownlee Reservoir (OR)	0	0	20
Oxbow/Hells Capyon (ID)	1	1	30
Oxbow/Hells Canyon (OR)	0	3	30
Snake River below Helis Canyor	(ID) O	3	7
Snake River below Hells Canyor	· · · · ·	2	7
Snake River (WA)	0	1	10
	1	11	

Total Target & Existing Territories - 12

Habitat Management Goal - 12

- <u>Main Threats</u>: Logging, recreation, loss of food supply, indiscriminate shooting, private land development, mining, road construction, water fluctuations at dams.
- <u>Proposed Management Direction</u>: Encourage restoration of anadromous fisheries; locate nesting pairs and increase nesting population. Maintain wintering habitat. Protect existing nest sites. Regulate human disturbance.

Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service BLM Fish & Wildlife Service Idaho Fish & Game Bureau of Reclamation Army Corps of Engineers County	1.21, 1.3211;,1.3214, 1.331, 1.332, 1.333, 1.334, 4.11, 4.121

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering Population
Salmon River Drainage	0	1	15
Cascade Reservoir	2	3	10
Garden Valley/Lowman	0	õ	10
Clearwater/Dworshak	0	1	80
Deadwood Reservoir	ō	1	0
Selway River	Ō	1	ŏ
Sawtooth Valley	Ō	1	ő
·	2		Ū

Total Target & Existing Territories - 10

Habitat Management Goal - 6

× 4

, **A**

Main Threats: Urban sprawl, industrial and housing developments, human disturbance, shooting, trapping, logging of roosting habitat, recreation activities, river channelization.

Proposed Management Direction: Identify potential nesting, roosting and foraging areas. Maintain wintering habitat, improve public information, establish nesting population. Maintain food supply, regulate human disturbance.

Responsible Agencies	Most Drgent Site-specific Tasks
Forest Service BLM Fish and Wildlife Service Oregon Dept, Fish & Wildlife Idaho Fish and Game Bureau of Reclamation Army Corps of Engineers Idaho Power County	1.3211, 1.32 14, 1.3215 , 1.332 , 1.333, 4.11, 4.121, 4.123,

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering Population
Malheur River (OR)	o	1	10
Owyhee River (OR)	0	1	10
Cow Lakes (OR)	0	0	15
Lake Lowell (ID)	0	0	35
Boise River/Anderson Ranch (ID)	1	2	25
Snake River (ID)	0	1	10
Payette River (ID)	0	ī	20
Lake Owyhee (OR)	0	1	ō
Bully Creek Reservoir (OR)	0	1	ō
Beula), Reservoir (OR)	Ó	1	ō
	1	9	•

Total Target & Existing Territories - 10

Habitat Management Goal - 9

Main Threats: Strychnine poisoning.

Proposed Management Direction: Identify wintering habitat. Oppose use of strychnine. Protect nesting and roosting habitat on private land through cooperative agreement.

Responsible Agencies	Most Urgent Site-specif	ic Tasks
Forest Service BLM Fish & Wildlife Service Idaho Fish & Game Army Corps of Engineers County	1.21, 1.3211, 4.11, 4.121	
	Target Curren	t

Kev Areas	Existing Territories	Target Recovery Territories	Current Wintering Population
Silver Creek	1	0	5
Medicine Lodge Creek	0	0	25
Birch Creek	Ó	0	30
Little Lost River	0	0	40
Big Lost River	0	0	10
Mackay Reservoir	0	1	0
	1	1	

Total Target & Existing Territories - 2

Habitat Management Goal - 1

Α.,

Zone 18. Greater Yellowstone (WY, ID, MT)

- Main Threats: Housing development on private land, high recreational mae, logging, poisoning, proposed dam construction, degradation of fish spawning habitat associated with development, lead poisoning.
- Proposed Management Direction: Coordinate intensive management planning to maintain and increase nesting populations and their habitat. Regulate recreational use. Protect habitat through exchange, essenent, or purchase. Initiate research and locate nesting and feeding areas. Maintain wintering habitat and non-contaminated food source. Insure maximum production. Restock fisheries where necessary.

Responsible Agencies

. . .

Most Urgent Site-specific Tesks Forest Service 1.21, BLM Fish & Wildlife Service 1.3211, 1.3214, Idaho Fish & Game 1.3215, 1.331, 1.332, 1.333, Wymming Fish and Game 1.334, 4.11, 4.121, 4.123 Montana Fish, Wildlife, Parks National Park Service Bureau of Reclamation Army Corps of Engineers Idaho Pover County Wyczing Forestry Livision

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering <u>Population</u>
Yellowstore (W1)	15	o	3
Upper Snake (WY)	17	0	40-60
Yellowstone River (MI)	Q	1	19
Centennial North (MT)	4	0	2
Madison River (MI)	4	Ó	5
Island Park Henrys Fork (ID)	4	3	50
Big Springs (IL)	0	2	10
South Fork (ID)	6	2	50
Palisades (I D)	3	2	Ō
Henry's Lake (ID)	1	0	0
Mud Lake/C a mas (ID)	O	0	10
Deer Parks (ID)	1	0	35
St. Anthony (II)	_1	0	5
	56	10	

Total Target & Existing Territories - 66

Habitat Management Goal - 65

- Main Threats: Housing, energy, and phosphate developments: related disturbance and declines in food supply. Deterioration of riparian habitat, recreational disturbance. Alteration of stream flows, grazing, lack of cottonwood regeneration.
- <u>Proposed Management Direction</u>: Initiate and expand surveys to obtain information on numbers, habitat use, and threats. Provide input on proposed development to minimize impact on eagles. Maintain and enhance wintering habitat, establish nesting pairs.

Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service BLM Fish & Wildlife Service Idaho Fish & Game	1.3211, 1.3214, 1.332, 1.333, 1.334, 4.11, 4.121, 4.123
Wyoming Game & Fish National Park Service	
Bureau of Reclamation Army Corps of Engineers	
County	
Soil Conservation Service	

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering Population
Alexander Reservoir (ID)	0	1	10
Blackfoot Reservoir (ID)	0	1	25
Crow Creek (ID)	0	0	10
Green River (WY)	0	Ō	30
Woodruff Roost (WY)	0	0	40
Rock Creek Roost (WY)	0	0	40
Bear Lake (ID)	0	1	
	0	3	

Total Target & Existing Territories - 3

Habitat Management Goal - 3

Zone 2D. Snake River Floodplain (ID)

- Main Threats: Logging, overgrazing of cottonwood seplings, agricultural development, lowered food supply, pesticide contamination, proposed dams, shooting, recreation disturbance, use of strychnine, possible lead poisoning.
- Proposed Management Direction: Maintain wintering population, maintain winter food supply, protect roosting areas from logging and human disturbance. Establish nesting population.

Responsible Agencies		Most Urgent S	ite-specific Tasks	
BLM Fish & Wildlife Service Idaho Fish & Game Bureau of Reclamation Bureau of Indian Affairs Idaho Power County Highway Department Sho-Ban Indian Nation	5	1.3211, 1.3214, 1.332, 1. 4.121, 4.123	333,-4.11,	
	Fristing	Target Recovery	Current Wintering	

<u>Key Areas</u>	Existing Territories	Recovery Territories	Wintering Population
Bowen Canyon	0	0	40
Minidoka-Az. Falls	0	0	50
Fort Hall Bottome	G	2	100
C.J. Strike Reservoir	O	0	20

Total Target & Existing Territories - 2

Habitat Management Goal - 2

- Main Threats: Human disturbance, trapping, shooting. Strychnine poisoning from rodent control operations. Logging of roosting and perching habitat.
- Proposed Management Direction: Identify and secure potential nesting, roosting and foraging areas. Maintain integrity of nest areas and wintering habitat.

Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service BLM Fish and Wildlife Service California Fish & Game Oregon Dept. Fish & Wildlife Bureau of Reclamation Army Corps of Engineers	1.3211, 1.331, 1.332, 4.11, 4.121

<u>Key Areas</u>	Existing Territories	Target Recovery Territories	Current Wintering Population
Modoc Plateau (CA)	2	7	1-5
Upper Pit River (CA)	õ	i L	
Warner Lake (OR)	ō		13 10
Malheur/Harney Lakes (OR)	0	ŏ	200
Rattlesnake/Coffeepot/Miller	ō	ŏ	120
Creek Roosts (OR)		-	140
Silver Creek/Miller Canyon/	0	0	30
Pine Springs Roosts (OR)		-	
Stinking Water Mountains (OR)	0	0	10
Steens Mountains (OR)	C	Ō	10
Harney Basin Deciduous Roosts (OR) O	Ő	30
West Valley Reservoir (CA)	0	1	1-5
Hart Lake (OR)	0	1	ō
Crump Lake (OR)	0	1	õ
	2	14	-

Total Target & Existing Territories - 16

Habitat Management Goal - 16

- <u>Main Threats</u>: Shooting, logging, pesticides, land development, human disturbance. Disturbance on foraging areas, changes in agricultural practices. Fire, power lines, lead poisoning.
- Proposed Management Direction: Identify and protect nesting, foreging and roosting areas. Evaluate nesting potential and manage lands for potential nesting habitat. Maintain waterfowl habitat and winter fluoding practices; cooperate with landowners to maintain foraging areas. Maintain integrity of roosts; secure them through purchase or cooperative agreement. Continue information and education programs, and evaluate potential disturbance by birders and photographers. Implement existing management plans. Improve perch availability.

1.3211, 1.3215, 4.11, 4.121

Responsible Agencies

Most Urgent Site-specific Tasks

Forest Service BLM Fish and Wildlife Service California Fish & Game Oregon Dept. Fish & Wildlife National Park Service Bureau of Reclamation Army Corps of Engineers Bureau of Indian Affairs

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering <u>Population</u> *
Klamath Marsh (OR)	4	2	5
Solomon Lake (OR)	1	. O	2
Sycan Marsh (OR)	1	2	5
Thompson Reservoir (OR)	1	0	0
Williamson River (OR)	2	0	0
Sprague River (OR)	1	2	10
Upper Klamath/Agency Lakes (OR)	39	2	90
Swan Lake (OR)	2	0	10
Round Lake (OR)	1	0	0
Klamath River (OR)	3	1	10
Gerber Reservoir (OR)	1	1	. 0
Campbell Reservoir (OR)	1	0	0
Drew's Reservoir (OR)	1	0	0
Lake of the Woods (OR)	1	0	0
Goose Lake (OR)	0	1	35
Bryant Mountain (OR)	1	0	0
Dog Lake (OR)	1	0	0
Summer Lake (OR)	1	1	15
Silver L./Paulina Marsh (OR)	Ó	1	30

Zone 22. (Continued)

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering Population*
Lower Klamath Lake (OR)	0	0	250
Lost River (OR)	0	0	20
Tull Reservoir (OR)	1	0	0
Aspen Lake (OR)	1	1	0
Long Lake (OR)	2	O	0
Wocus Marsh (OR)	0	0	150
Bear Valley Roost (OR)	1	0	350
Klamath/Tule NWR (CA)	0	3 '	500
Mt. Dome Roost (CA)	1	0	250
Three Sisters Roost (CA)	0	0	75
Caldwell/Cougar Roost (CA)	0	1	300
Clear Lake/Modoc Plateau (CA)	2	2	1-5
Goosenest Area (CA)	5	1	30-50
Goose Lake (CA)	0	3	35
Hyatt Reservoir (OR)	1	0	0
Howard Prairie Reservoir (OR)	1	0	0
Strawberry Reservoir (OR)	0	1	0
Cottonwood Reservoir (OR)	0	1	0
Pothole Lakes (OR)	0	1	0
South Arm/Albertson Reservoir (OR) O	1	0
Fourmile Lake (OR)	0	1	0
Crater Lake (OR)	0	1	0
Meiss Lake (CA)	0	· 1	0
	-77-	31	

* The sum of the wintering population estimates is much higher than the actual total because both day-use areas and night-use areas are shown.

Total Target & Existing Territories - 108 Habitat Management Goal - 108 Recovery Population Goal - 80

132

4 I

Main Threats: Shooting, logging, human disturbance. Loss of endromous fisheries.

1 , 1

Proposed Management Direction: Restore anadromous fishery. Protect nest sites and foraging pairs. Improve searches for existing mesting pairs. Increase the nesting population.

Responsible Agencies	Most Urgent Site specific Tasks		
Forest Service BLM Fish & Wildlife Service California Fish & Game Oregon Dept. Fish & Wildlife National Park Service Bureau of Reclamation Army Corps of Engineers	1.3211, 1.3215, 1.331, 1.332, 1.333, 1.334, 4.11, 4.121		

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering <u>Population</u>
Rogue River (OR)	2	4	10
Willow Lake (OR)	1	0	. 0
Klamath River (CA)	1	4	4
Trinity River (CA)	3	3	5
Ruth Reservoir/Mad River (CA)	1	0	2
Eel River (CA)	1	6	15
Clear Lake/Cache Creek (CA)	C	2	20-50
Lake Berryessa (CA)	0	1	10
Sixes River (CR)	0	1	0
Floras Lake (OR)	0	1	Ō
Chetco River (OR)	O	1	Ō
Fish Lake (OR)	0	1	0
Lost Creek Reservoir (OR)	0	1	ō
Applegate Reservoir (OR)	0	1	Ō
Illinois River (OR)	0	1	0
Emigrant Lake (OR)	0	1	o
Pt. Reyes National Seashore (CA)) 0	3	Ō
Mendocino Coast (CA)	0	3	0
Del Norte Coast (CA)	Q	3	0
King Range (CA)	0	3	0
Salt Point State Park (CA)	0	1	0
Humboldt Bay (CA)	0	2	0
	9	43	

Total Target & Existing Territories - 52 Habitet Management Goal - 52

Main Threats: Recreational disturbance at nest areas. Shooting.

Proposed Management Direction: Protect nest and wintering areas. Public education. Evaluate nest habitat for long-term.

Responsible Agencies	<u> </u>	st Urgent Site	-specific Tasks
Forest Service	1.3211	-	
BLM Fish & Wildlife Service	1,331,	1.332, 1.334,	4.11, 4.121
California Fish & Game National Park Service Bureau of Reclamation			
	Fristing	Target Recovery	Current Wintering

Key Areas	Existing Territories	Recovery Territories	Wintering Population
Shasta Lake	14	2	32
Whiskeytown Lake	2	1	4
Trinity Res./Lewiston Res.	4	3	27
	20	6	

• .

.

Total Target & Existing Territories - 26

Habitat Management Goal - 26

ι,

.

Main Threats: Disturbance by recreation, logging, mining.

. 1

Proposed Management Direction: Protect mesting and wintering habitat. Complete management plan for Lake Britton area. Public education.

Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service RLM Fish & Wildlife Service California Fish & Game	1.3211, 1.331, 1.332, 1.333, 1.334, 4.11, 4.121
	Target Current

Key Areas	Existing <u>Territories</u>	Recovery Territories	Wintering <u>Population</u>
Middle Pit River Area	8	3	12
Lake Britton	5	0	14
Lower Pit River Area	5	3	16
	18	6	

Total Target & Existing Territories - 24 Habitat Management Goal - 24
Main Threats: Disturbance of nest territories.

Proposed Management Direction: Maintain nesting and wintering habitat, control disturbance.

Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service BLM Fish & Wildlife Service California Fish & Game National Park Service California Dept. Water Resources	1.3211, 1.331, 1.332, 1.334, 4.11, 4.121

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering Population
Eagle Lake Area	11	2	50
Lake Almanor Area	9	7	30
Plumas Area	<u>- 6</u> 26	$\frac{-6}{15}$	15

Total Target & Existing Territories - 41 Habitat Management Goal - 41

.

۰.

Zone 27. Sacramento Valley and Foothills (CA)

<u>Main Threats</u>: Loss of anadromous fishery. Loss of riparian habitat. Disturbance of forage areas. Shooting.

Proposed Management Direction: Protect winter habitats, evaluate for introduction of nesting birds.

Responsible Agencies	Most Urgent Site-specific Tasks
BLM	· ·
Fish & Wildlife Service California Fish and Game	1.3211, 4.11, 4.121

Fish & Wildlife Service California Fish and Game Bureau of Reclamation Army Corps of Engineers * California Dept. Water Resources

...

Target Current Existing Recovery Wintering Territories Key Areas Territories Population Sacramento River & tributaries 1 3 25 (Anderson-Woodson Bridge) Payne's Creek/Inks Creek 0 5 1 Mill Creek'Deer Creek 0 1 25 Sacramento River & tributaries 0 3 5 (Woodson Bridge-Colusa) Lake McCumber 1 1 2 Lake Oroville Area 1 4 20 Stony Gorge/East Park Reservoirs 1 4 14

Total Target & Existing Territories - 19

Habitat Management Goal - 15

Recovery Population Goal - 8

137

Main Threats: Disturbance at wintering grounds. Loss of potential nest habitat to logging, development.

Proposed Management Direction: Maintain winter habitat. Evaluate potential expansion/reintroduction of breeders.

_ Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service	1.3211,
BLM	1.331, 1.332, 1.334, 4.11, 4.121
Fish & Wildlife Service	
California Fish & Game	
National Park Service	
Army Corps of Engineers	
California Dept. Water Resources	

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering <u>Population</u>
Lake Tahoe (NV)	0	1	0
Lake Tahoe (CA)	1	3	4
Bullard's Bar Reservoir (CA)	0	З	11
Englebright Reservoir (CA)	0	0	10
Camanche/New Hogan Res. Area (CA	.) 0	4	30
Don Pedro Res./Tuolumne R. (CA)	0	5	23
Stampede Reservoir (CA)	0	1	0
Boca Reservoir (CA)	0	1	0
Jackson Lake (CA)	0	1	0
Hell Hole Reservoir (CA)	0	1	1
Union Valley Reservoir (CA)	0	1	0-6
Bear Reservoir (CA)	0	1	1
Beardsley Res./Stanislaus River	(CA) 0	2	2
Cherry Lake (CA)	0	1	0-4
San Joaquin River (CA)	0	1	15-30
Pine Flat Res./Kings River (CA)	0	2	5-15
Kern River Area (So. and No. For	ks) 0	2	5-10
Merced River Area (CA)	0	1	2-3
	1	31	

Total Target & Existing Territories - 32 Habitat Management Goal - 32

Main Threats: Agricultural development, shooting, pesticides.

<u>Proposed Management Direction</u>: Very little habitat remains in this zone except rangeland and small reservoirs on east side of valley. Protect this limited wintering habitat.

Responsible Agencies	Most Urgent Site-specific Tasks		
BLM Fish & Wildlife Service California Fish & Game	1.3211, 1.332, 4.11, 4.121		
Key Ateas			
None			

Total Target & Existing Territories - 0

Habitat Management Goal - O

Main Threats: Disturbance of winter forage areas, shooting.

Proposed Management Direction: Protect winter habitat. Public education. Evaluate potential for nesting reintroduction.

Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service BLM Fish & Wildlife Service California Fish & Game Monterey County Parks Dept.	1.332, 1.334, 4.11, 4.121

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering Population
San Antonio/Nacimiento Reservoi:	r 0	3	36
Lake Cachuma	0	1	13
Lopez Lake/Santa Margarita Lake	0	1	1-5
Coastal Areas	0	6	1-5
	0	11	

Total Target & Existing Territories - 11

Habitat Management Goal - 11

Main Threats: Shooting, pesticides.

.

, **.**

Proposed Management Direction: Protect existing reintroduced population, potential nest habitat and forage sources.

Responsible Agencies	Most Urgent Site-specific Tasks
Fish & Wildlife Service California Fish & Game National Park Service	1.332, 4.11, 4.121,

<u>Key Ateas</u>	Existing Territories	Target Recovery Territories	Current Wivtering Population
Santa Catalina Island	C	-6	10
San Clemente Island	σ	3	0
Santa Cruz Island	0	3	0
Santa Rosa Island	0	3	0
San Miguel Island	0	1	0
-	0	16	

Total Target & Extating Territories - 16

Habitat Management Goal - 16

~ •

Main Threats: Disturbance of winter forage areas, residential development.

Proposed Management Direction: Protect winter habitat. Educate public.

Responsible Agencies	Most Urgent Site-specific Tasks		
Forest Service BLM Fish & Wildlife Service California Fish & Game	1.21, 1.22, 1.3211, 1.332, 1.333, 1.334, 4.11, 4.121		

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering Population
Big Bear Lake Area	Ó	1	27
Lakes Mathews & Perris/ San Jacinto Valley	0	1	10-20
San Diego County Reservoirs	<u> </u>	<u>2</u> 4	10-20

Total Target & Existing Territories - 4

Habitat Management Goal - 4

Main Threats: Loss of riparian habitat. Human disturbance.

Proposed Management Direction: Protect winter habitat and foraging areas. Evaluate potential for introducing mesting birds.

Responsible Agencies	Most Urgent Site-specific Tasks			
Fish & Wildlife Service California Fish & Game Nevada Dept. Wildlife National Park Service Bureau of Indian Affairs Bureau of Reclamation	1.3211, 1.333, 4.11, 4.121			
Key Areas	Existing Territories	Target Recovery Territories	Current Wintering Population	
Hevesu NWR (CA) Lake Meed NRA (CA,NV)	<u> </u>	$\frac{1}{0}$	5 5-10	

Total Target & Existing Territories - 1

Habitat Management Goal - 1

Recovery Population Goal - 0

4

Main Threats: Shooting. Loss of adequate roost and perch trees.

Proposed Management Direction: Identify and protect winter use areas with emphasis on night roosts and adjacent habitat. Maintain winter food supply.

Responsible Agencies

BLM

Fish & Wildlife Service Nevada Dept. Wildlife

Кеу Агеаз	Existing Territories	Target Recovery Territories	Current Wintering Population
Pahranagat NWR	0	0	3
Kirch Wildl, Mgmt, Area	0	0	2

Total Target & Existing Territories - 0

Habitat Management Goal - 0

Recovery Population Goal - 0

÷ i

×.

· *

- Main Threats: Disturbance of winter forage areas. Loss of wetland habitat. No cottonwood replacement in key roosting areas. Hultiple demands on water resource. Increased human populations, agricultural development and recreational activity.
- Proposed Management Direction: Identify and protect winter use areas with emphasis on protecting root trees and providing replacement trees. Protect winter formging mabitat; maintwin high quality weilands.

1.3211, 1.332, 4.11, 4.121

Key Areas	<u>Pristing</u> Territories	Terget Recovery Territories	Eurrent Wintering Population
Carson/Walker Eiver Area (CA)	Ø	م	B
Honey Lake (CA)	D	Ð	4
Stillwater NWR (NV)	0	0	6
Lahorian Reservoir (NV)	0	0	7
Carson Valley/Mud Lake (NV)	0	0	11
	- 0	0	

Total Target & Existing Territories - 0

Habizat Management Goal - 0

2 . ²¹ -

5

Main Threats: Illegal poisoning for coyotes, illegal trapping with exposed bait, possible shooting.

Proposed Management Direction: Identify and protect wintering areas with emphasis on roost trees. Improve law enforcement.

Responsible Agencies	Most Urgent Site-specific Tasks		
Forest Service	1.3214,		
BLM	1.3221, 3.21,		
Fish & Wildlife Service	3.22, 4.11, 4.121		
Nevada Department Wildlife	• • • • • • • • • • • • • • • • • • • •		

Key Areas	Existing Territories	Target Recovery <u>Terricories</u>	Current Wintering Population
Antelope Valley	0	0	15
Ruby Lake NWR	0	0	2
Ogder's Pond	O	0	4
	<u> </u>	0	

Total Target & Existing Territories - 0

Habitat Management Goal - 0

- Main Threats: Shooting, trapping, poisoning. Human disturbance and water development.
- Proposed Management Direction: Identify, protect and enhance potential roosting and foraging areas. Improve law enforcement.

. .

•

ŝ.

Responsible Agencies	Most Urgent Site-specific Tasks		
Forest Service			
BLM	1.3211, 1.332, 4.11, 4.121,		
Fish & Wildlife Service	4.123		
California Fish & Game			
Nevada Department Wildlife			
Idaho Fish & Game			
Bureau of Reclamation			
Army Corps of Engineers			
Bureau of Indian Affairs			
County			
Nevada State Parks			
LA Dept. Water & Power			

Key Areas	Existing Territories	Target Recovery Territories	Current Wintering Population
Mono Lake/Owens Valley (CA)	0	O	10-20
Upper Owyhee River (OR)	0	2	5
Salmon Falls Creek (NV)	1	0	2
	1	2	

Total Target & Existing Territories - 3

Habitat Management Goal -3

Main Threats: Shooting, rodent control, human disturbance.

Proposed Management Direction: Protect nesting and feeding areas. Identify migration corridors. Develop I&E program to protect eagles.

Responsible Agencies	Most Urgent Site-specific Tasks		
Forest Service BLM Fish & Wildlife Service Montana Fish, Wildlife, Parks Bureau of Reclamation	1.3211, 1.332, 4.121		

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering Population
Beaverhead River	2	0	5-10
Jefferson River	1	1	6
Madison River	1	1	15
Gallatin River	0	1	7
Big Hole River	1	0	15
Ruby River	1	0	
÷	6	3	

Total Target & Existing Territories = 9

Habitat Management Goal - 8

<u>Main Threats</u>: Rodent control via strychnine, shooting, pesticides, logging.

Proposed Management Direction: Resolve problems of environmental contamination. Maintain riparian forests. Reduce strychnine hazards.

Responsible Agencies Most Urgent Site-specific Tasks

4.121

.

Forest Service BLM Fish & Wildlife Service Montana Fish, Wildlife, Parks Bureau of Reclamation Army Corps of Engineers Bureau of Indian Affairs

ء ي د

-

÷ .

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering <u>Population</u>
Glacier National Park	2 -	0	0
Sun River	0	2	15
Upper Missouri Reservoirs	1	2	50
Missouri River and tributaries	1	6	15-25
	4	10	

Total Target & Existing Territories - 14

Habitat Management Goal - 13

.

- Main Threats: Shooting, housing developments along rivers, degradation of riparian habitat, rodent control, pesticides, lead poisoning, clearing of floodplain forests.
- Proposed Management Direction: Develop and implement riparian management programs. Locate and manage potential nesting habitat. Identify key use areas for nest mites and develop management plans. Cooperate with livestock operators to avoid conflicts. Work with landowners to protect cottonwood forests. Resolve rodenticide-pesticide problems. Improve surveys.

Responsible Agencies Most Urgent Site-specific Tasks Forest Service 1.21, BLM Fish & Wildlife Service 1.3211, 1.331, 1.332, 1.333, Wyoming Game & Fish 4.121 Montana Fish, Wildlife, Parks National Park Service Bureau of Reclamation Army Corps of Engineers Bureau of Indian Affairs Soil Conservation Service Wyoming SF

Кеу Агеаь	Existing <u>Territories</u>	Target Recovery <u>Territories</u>	Current Wintering <u>Population</u>
Shoshone (WY)	0	2	25
Bighorn River (WY)	2	1 .	50
Greybull River (WY)	õ	ō	20
Wind River (WY)	Ō	2	10
Yellowstone River (MT)	ī	7	40
Bighorn River (MT)	2	3	30
Shields Valley (MT)	ō	ō	5*
Clark's Fork (MT)	2	0	12
Stillwater River (MT)	ō	1	8
	7	16	

* migration corridor

Total Target & Existing Territories - 23

Habitat Management Goal - 23

- <u>Main Threats</u>: Energy development causing disturbance and reduced food supply. Loss of riperish cottonwoods. <u>Conflicts</u> with sheep operations. Shooting, pesticides.
- Proposed Management Direction: Identify communal roosts and concentration areas. Minimize negative impacts of energy development. Work with landowners and livestock operators to prevent shooting and prisoning. Develop IAE programs. Maintain riparian cottonwood habitat.

Responsible Agencies		lost Urgent Site	-specific Temks
Forest Service BLM Fish & Wildlife Service Wyoming Game & Fish National Park Service Montana Fish, Wildlife, Park Bureau of Reclamation Army Corps of Engineers		. 4.123	
<u>Key Areas</u>	Existing Territories	Ierget Recovery <u>Territories</u>	Current Wintering Propulation
Tongue River (WY)	1	ı	5
Crazy Woman (WY)	D	0	.20
Powder River (WY)	Ō	Ō	25
Belle Fourche Roost (WY)	Ð	Ó	20

DETTE LODICHE VOORT (#3)	L/	Ð	4 0
Other Areas (WY)	1	Ð	- -
Antelope Creek Roost (WY)	0	Ð	50
Yellowstone River (EI)	5	3	50
Little Missouri River (MT)	0	Ċ O	3
Tongue River (MT)	1	1	10
Powder River (MI)	D	1	5
Long Pines (MT)	D	0	1 0
	8	6	

Total Target & Existing Territories - 14

Habitat Management Goal - 14

- <u>Main Threats</u>: Housing developments along North Platte River; energy development near communal roosts and increasing human disturbance near roosting sites; loss of snags in foraging habitat.
- <u>Proposed Management Direction</u>: Obtain conservation easements along North Platte. Determine key foraging areas. Minimize disturbance at roosting sites. Address eagle needs in BLM land use plans. Monitor potential threats.

Responsible Agencies	Most Urgent Site-specific Tasks
Forest Service	1.21,
BLM	1.3211, 1.332, 1.333, 1.334
Fish & Wildlife Service	,,,,,,,
Wyoming Game & Fish	
Bureau of Reclamation	
Army Corps of Engineers	
Wyoming Forestry Division	
Soil Conservation Service	

Key Areas	Existing <u>Territories</u>	Target Recovery <u>Territories</u>	Gurrent Wintering <u>Population</u>
Casper	Q	0	100+
Boxelder	0	D	40
Glendo-Gvernsey Reservoirs	0	0	10
	Ū.	0	

Total Target & Existing Territories - 0

Habitat Management Goal + 0

Main Threats: Unknown.

 $s \sim 10^{-1}$

Proposed Management Direction: Locate wintering areas.

Responsible Agennies

Forest Service BLM Fish & Wildlife Service Wynning Game & Fish Soil Conservation Service County

-1

. .~

Key Areas

None

Total Target & Existing Territories - 0

Habitat Management Goal - 0

- <u>Main Threats</u>: Future development of nesting habitat on state and private land. Degradation of nesting habitat associated with proposed energy and water projects on the Little Snake River. Loss of riparian cottonwoods.
- Proposed Management Direction: Locate and protect nesting and foraging habitat. Study to identify major land use conflicts. Identify important habitat associated with each nest site.

Responsible Agencies	Most Urgent Site-specific Tasks	
Forest Service BLM Fish & Wildlife Service Wyoming Game & Fish Bureau of Reclamation Army Corps of Engineers	1.21	
	Target Current	

Key Areas	Existing	Recovery	Wintering
	<u>Territories</u>	Territories	Population
Upper North Platte Little Snake	6 0 6	$\frac{\frac{1}{1}}{2}$	20 10

Total Target & Existing Territories - 8

Habitat Management Goal - 8

5.0

Zone 45. Red Desert (WY)

Main Threats: Unknown.

Proposed Management Direction: Locate important use areas.

: Responsible Agencies

Forest Service BLM Fish & Wildlife Service Wyoming Game & Fish Bureau of Reclamation Army Corps of Engineers

Key Areas

, S

•

None

Total Target & Existing Territories - 0

.

Habitat Management Goal - 0

Main Threats: Housing developments and increasing human recreation.

Proposed Management Direction: Evaluate potential nesting habitat and manage to maintain potential habitat. Regulate human use patterns.

Responsible Agencies

Forest Service BLM Fish & Wildlife Service Wyoming Game & Fish Bureau of Reclamation Army Corps of Engineers Soil Conservation Service

Key Areas	Existing Territories	Target Recovery <u>Territories</u>	Current Wintering Population
Upper Green River Pinedale Lakes	<u></u>	1 2. 3	10 0

- Total Target & Existing Territories 5
 - Habitat Management Goal 5

<u>____</u>

.....

.

.

Zone 47. Missouri Basin (MT)

Main Threats: Pesticides, shooting.

•

.

.

4 K.

Proposed Management Direction: Public I&E measures. Attempt to resolve environmental problems.

Responsible Agencies	 Most Urgent Site-specific Tasks
U.S. Fish & Wildlife Service BLM Montana Fish, Wildlife, Parks Bureau of Indian Affairs	1.3211, 4. <u>12</u> 1

Key Aress	Existing Territories	Target Recovery <u>Territories</u>	Cnrrent Wintering <u>Population</u>
Milk River	0	2	1
Missouri River	O	4	19
Musselshell River	O	2	20-30
Big Dry	0	1	0
Popiar River	0	1	0
-	0	9	·

Total Target & Existing Territories - 9

Habitat Management Goal - 9

APPENDIX B

÷

:

LIST OF AGENICES ASKED TO PROVIDE REVIEW COMMENTS

Chief U.S. Forest Service P.O. Box 2417 Washington, D.C. 20013

Regional Forester U.S. Forest Service Region 1 Federal Bldg, P.O. Box 7669 Missoula, MT 59807

Regional Forester U.S. Forest Service Intermountain Region 4 324 25th Street Ogden, UT 84401

1

Division Engineer Army Corps of Engineers South Pacific Division 630 Sansome Street San Francisco, CA 94111

Bureau of Indian Affairs 1951 Constitution Avenue, NW. Washington, D.C. 20245

Area Director Bureau of Indian Affairs Sacramento Area Office 2800 Cottage Way Sacramento, CA 95825

Director Bureau of Land Management 18th & C Street, NW Washington, D.C. 20240 Regional Forester U.S. Forest Service Pacific Southwest Region 5 630 Sansome Street San Francisco, CA 94111

- 4 a - 🖝

Regional Forester U.S. Forest Service Region 6, Box 3623 319 SW Pine Street Portland, OR 97208

Army Corps of Engineers Off of the Chief of Engineers Pulaski Bldg. 20 Mass Avenue, NW Washington, D.C. 20314

Division Engineer Army Corps of Engineers North Pacific Division P.O. Box 2870 Portland, OR 97208

Area Director Bureau of Indian Affairs Navaho Area Office Window Rock, AZ 86515

Area Director Bureau of Indian Affairs P.O. Box 3785 Portland, OR 97208

State Director Bureau of Land Management 2800 Cottage Way Sacramento, Ca 95825 ۰.

Sta Director
, Bureau of Land Management
3380 Americana Terrace
Boise, ID 83706

State Director Bureau of Land Management 300 Booth Street Reno, NV = 89509

Administrator Bonneville Power Administration P.O. Box 3621 Portland, OR 97208

Bureau of Reclamation Washington, D.C. 20240

Regional Director Bureau of Reclamation 550 West Fort Streete P.O. Box 043 Boise, ID 83724

National Park Service Interior Bidg., Washington, D.C. 20240

Regional Director Pacific Northwest National Park Service 1920 Westin Bldg. 2001 Sixth Avenue Seattle, WA 98121 State Director
 Bureau of Land Management
 222 North 32nd Street
 P.O. Box 30157
 Billings, MT 59107

State Director Bureau of Land Management P.O. Box 2965 825 NE Multnomah Street Portland, OR 97208

Marty Montgomery, Member NW Power Planning Council Statehouse Tower Bld. 3rd Floor Boise, ID 83720

Regional Director Bureau of Reclamation Mid-Pacific Regional Office 2800 Cottage Way Sacramento, CA 95825

Regional Director Bureau of Reclamation P.O. Box 427 Boulder City, NV 89005

Regional Director National Park Service P.O. Box 36063 450 Golden Gate Avenue San Francisco, CA 94102

Environ. Protection Agency 401 M Street, SW Washington, D.C. 20460 Superintendent Glacial National Park West Glacier, MO 59936

Administrator Environmental Protection Agency Region X 1200 Sixth Avenue Seattle, WA 98101

Audubon Society Western Region 555 Audubon Place Sacramento, CA 95825

Director California Dept. of Fish & Game 1416 Ninth Street Sacramento, CA 95814

Regional Supervisor Idaho State Highway Department 3311 West State Boise, ID 83705

State Forester Nevada Division of Forestry 201 South Fall Street Carson City, NV 89710

Director Nevada Department of Wildlife P.O. Box 10678 Reno, NV 89510

Director Oregon Dept. of Fish & Wildlife P.O. Box 3503 Portland, OR 97208 Acting Administrator Environmental Protection Agency Region IX 215 Freemont Street San Francisco, CA 94105

Audubon Society Rocky Mountain Region 4150 Darley Boulder, CO 80307

Pres. & Chairman of the Board National Wildlife Federation National Office 1412 16th Street NW Washington, D.C. 20036

Director Idaho Fish & Game Department P.O. Box 25 600 S. Walnut Boise, ID 83707

Director Mont Dept of Fish, Wildlife & Parks 1420 East Sixth Street Helena, MT 59601

Administrator Nevada Division of State Parks 201 South Fall Street Carson City, NV 89710

Director Ore Dept. of Environ. Quality 522 S.W. Fifth Portland, OR 97207

State Forester Oregon Dept. of Forestry 2600 State Street Salem, OR 97310 Director Washington Dept. of Fisheries 115 Gen. Admin. Bldg. Olympia, WA 98504

Administrator Wash Dept. of Natural Resources Olympia, WA 98504

Director Wyoming Game & Fish Department 5400 Rishop Blvd. Cheyenne, WY 82002

Andy Kerr Oregon Natural Resource Council 1161 Lincoln Street Eugent, Ok 97401 Director Washington Dept. Fish & Game 600 N. Capitol Way Olympia, WA 98504

State Forester Wyoming State Forestry Division 110 West 22nd Street Chedyenne, WY 82002

Robert J. Anderson Chmn Oregon/Washington Working Team Weyerhaeuser Company Centralia, WA 98531



Oregon Cooperative Fish and Wildlife Research Unit Department of Fisheries and Wildlife

Oregon State University, 104 Nash Hall, Corvallis, Oregon 97331-3803 T 541.737.1938 | F 541.737.3590 | E orcfwru@oregonstate.edu/

3 March 2006

To: Sarah Madsen, USDA Forest Service, Portland Barbara Hill, BLM, Portland Carol Schuler, USGS, FRESC, Corvallis Geoff Dorsey, US Army Corps of Engineers, Portland U.S. Geological Survey, BRD, Reston, VA Charlie Bruce & Martin Nugent, ODFW, Salem Kevin Maurice, Jeff Dillon & Diana Hwang, USFWS, Portland Jay Schleier, Oregon Parks & Recreation Department, Salem Oregon Eagle Foundation, Inc., Klamath Falls



From: Frank Isaacs & Bob Anthony, OCFWRU, OSU, Corvallis, OR

Regarding: RESULTS OF THE 2005 BALD EAGLE NEST SURVEY

<u>Please Note</u>: A summary of this report has been sent to all survey funders by e-mail. If you require the complete report and cannot get it from one of the persons listed above, or are not associated with one of the above organizations, contact Frank at 541-929-7154 or isaacsf@onid.orst.edu, for a PDF version of the report. An electronic version of the Nest Locations & History Table also is available from Frank upon request.

Enclosed you will find:

1) Bald Eagle Nest Locations and History of Use in Oregon and the Washington portion of the Columbia River Recovery Zone (RZ)

- 2) List of previously unknown nests (Table 1)
- 3) Summary of population size and productivity for Oregon (Table 2)
- 4) Summary of population size and productivity for the Columbia River RZ (Table 3)
- 5) Owners of land with bald eagle nest trees in Oregon (Table 4)
- 6) Population size and productivity for the last five years by RZ (Table 5)
- 7) Highlights of the survey (Table 6)
- 8) Graph of population size for Oregon (Figure 1)
- 9) Graph of productivity for Oregon (Figure 2)
- 10) Graph of population for the Columbia River RZ (Figure 3)
- 11) Graphs of productivity for the Columbia River RZ (Figure 4)
- 12) Map of nest tree locations (Figure 5)
- 13) List of contributors (Appendix 1)

This information is our final report on the 2005 bald eagle nest survey for

Oregon. The results are based on 2,385 observations at breeding areas. Three-hundred-seven people contributed to the effort. The area covered by this report is Oregon (OR) and the Washington portion of the Columbia River Recovery Zone (WA).

COOPERATORS: Oregon Department of Fish & Wildlife, Oregon State University, US Geological Survey Biological Resources Division, US Fish & Wildlife Service and Wildlife Management Institute



Oregon Cooperative Fish and Wildlife Research Unit Department of Fisheries and Wildlife

Oregon State University, 104 Nash Hall, Corvallis, Oregon 97331-3803 T 541.737.1938 | F 541.737.3590 | E orcfwru@oregonstate.edu/

Five-hundred-forty-one breeding areas were surveyed (479 in OR, 62 in WA). Eighty-seven previously unknown nests (68 in OR, 19 in WA) were documented, including 28 at 28 new breeding areas (23 at 23 in OR, 5 at 5 in WA). Five-hundred-thirteen breeding areas were occupied (456 in OR, 57 in WA), yielding a minimum estimate of 513 breeding pairs for the study area. Productivity for 2005 was 1.01 young/occupied site in OR and 1.04 in WA, resulting in 5-year results of 1.04 for OR and 0.99 for WA.

In the Columbia River Recovery Zone (RZ 10), we surveyed 140 breeding areas. One-hundred-thirty were occupied, yielding a minimum estimate of 130 breeding pairs in the Recovery Zone. Productivity in RZ 10 for 2005 was 1.06 young/occupied site resulting in a 5-year figure of 1.00.

We are grateful to the following cooperators for major funding for the 2005 bald eagle nest survey: U.S.D.A. FOREST SERVICE, Regional Office - Portland; U.S.G.S. FOREST AND RANGELAND ECOSYSTEM SCIENCE CENTER, Corvallis; U.S. FISH AND WILDLIFE SERVICE, Portland; U.S. ARMY CORPS OF ENGINEERS, Portland; U.S.G.S. BIOLOGICAL RESOURCES DIVISION, Reston, VA; BUREAU OF LAND MANAGEMENT, Portland; OREGON PARKS AND RECREATION DEPARTMENT, Salem; and OREGON EAGLE FOUNDATION, INC., Klamath Falls.

We are especially grateful for the outstanding assistance that came from the many resource managers and volunteers listed in Appendix 1 who helped complete the 2005 survey. Without their help this project could not have been completed!

We intend to coordinate the survey again in 2006, and hope that you will continue to contribute to this project.

BALD EAGLE NEST LOCATIONS and HISTORY OF USE in OREGON and the WASHINGTON portion of the COLUMBIA RIVER RECOVERY ZONE, 1971 through 2005

Compiled by:

Frank B. Isaacs and Robert G. Anthony

Oregon Cooperative Fish and Wildlife Research Unit Department of Fisheries and Wildlife Oregon State University 104 Nash Hall Corvallis, OR 97331-3803

Frank - Phone: 541-929-7154; e-mail: isaacsf@onid.orst.edu Bob - Phone: 541-737-1954; e-mail: Robert.Anthony@orst.edu

3/3/06

This list contains MANY corrections and additions that are not on previous lists. Please DESTROY all previous lists.

Citation:

Isaacs, F.B. and R.G. Anthony. 2005. Bald eagle nest locations and history of use in Oregon and the Washington portion of the Columbia River Recovery Zone, 1971 through 2005. Oregon Cooperative Fish and Wildlife Research Unit, Oregon State University, Corvallis, Oregon, USA.

NEST TREE HISTORIES

Nest tree histories for the past 30 years, 1976-2005, are shown in this report. We have compiled histories for nest trees monitored since 1971. Data for 1971-1975 are available from the authors upon request.

NEST TREE NUMBERS

Nest tree numbers for Oregon were assigned in 1993 to replace the site-nest tree numbers used 1978-1992. Oregon nest tree numbers are now assigned sequentially as new nest trees are discovered or reported. Territories do not have numbers because of occasional splitting or combining.

Nests listed between solid lines are considered to be in the territory of one nesting pair of bald eagles. Some territories contain nests in Oregon and Washington.

KEY TO ABBREVIATIONS

COLUMN HEADINGS: Co = County / No = Nest Number / Own = Landowner / RZ = Recovery Zone / TRS Location = Township Range Section Location

COUNTIES: OREGON: Bake = Baker / Bent = Benton / Clac = Clackamas / Clat = Clatsop / Colu = Columbia / Coos = Coos / Croo = Crook / Curr = Curry / Desc = Deschutes / Doug = Douglas / Gran = Grant / Harn = Harney / Hood = Hood River / Jack = Jackson / Jeff = Jefferson / Jose = Josephine / Klam = Klamath / Lake = Lake / Lane = Lane / Linc = Lincoln / Linn = Linn / Malh = Malheur / Mari = Marion / Mult = Multnomah / Polk = Polk / Till = Tillamook / Unio = Union / Wall = Wallowa / Wasc = Wasco / Wash = Washington / Whee = Wheeler / Yamh = Yamhill; WASHINGTON: Clar = Clark / Cowl = Cowlitz / Klic = Klickitat / Paci = Pacific / Skam = Skamania / Wahk = Wahkiakum

SITE AND NEST NAMES: Br = Bridge / Cr = Creek / E = East / Is = Island / L = Lake(s) / Mt = Mountain / N = North / Pr = Prairie / R = River / Res = Reservoir / S = South / W = West / (X) = indicates nest tree was probably not a bald eagle nest tree.

LANDOWNERS: BLM = Bureau of Land Management / CG = US Coast Guard / CI = City / CI* = Metro / CLT = Columbia Land Trust / CO = County / CO&OEF = Clatsop County and Oregon Eagle Foundation, Twilight Eagle Sanctuary / COE = Corps of Engineers / COE&FS = Corps of Engineers; managed by USDA Forest Service / DFW = Oregon Department of Fish and Wildlife / DNR = Washington Department of Natural Resources / DOT = Oregon Department of Transportation / DSL = Division of State Lands / FS = USDA Forest Service / FWS = US Fish and Wildlife Service / NPS = National Park Service / ODF = Oregon Department of Forestry / OPR = Oregon Parks and Recreation Department / PGE = Enron Portland General Electric / POV = Port of Vancouver / PP = Pacific Power / PV = Private / SLI = Silver Lake Irrigation District / TNC = The Nature Conservancy / WDW = Washington Dept. of Fisheries and Wildlife / WSP = Washington State Parks / WST = Warm Springs Tribe

SITE AND NEST STATUS:

* = nest was built or rebuilt since last observed. oF = occupied or breeding failure; \geq 1 adult and a nest observed during the breeding season; no evidence of eggs or young. O? = occupied, outcome unknown; adult eagle(s) observed, but no nest located, or outcome not determined; repaired nest but no adult eagle(s) observed; formerly OC?.

A? = active, outcome unknown; evidence of eggs observed, outcome not determined.

U = site unoccupied; site apparently not occupied by eagles; assigned to all nests observed at a site.

1, 2, 3 = 1, 2, or 3 nestlings > 4 or 5 weeks old present when the nest was last observed; partly feathered and feathered.

1d, 2d, 3d = 1, 2, or 3 nestlings \leq 4 or 5 weeks old present when the nest was last observed; downy.

al = alternate; nest not used for nesting; one of two or more nests at an occupied site.

F = active or nesting failure; nest with evidence of eggs, but no young raised.

- = status unknown; also used when the survey was too early or too late in the nesting season, or inadequate for some other reason.

CD = nest tree cut down / CG = nest used by Canada geese / CR = nest used by Common Raven / GE = nest used by golden eagles / GH = nest used by great horned owls / N = nest no longer exists / ND = nest down / NL = nest not looked for or not located / NS = site not surveyed / OS = nest used by osprey / PEFA = nest used by peregrine falcon / RT = nest used by red-tailed hawks / RT? = hawk chicks in nest (probably red-tailed) / TD = nest tree blown down or the top broke out; tree can no longer support a nest

KEY TO RECOVERY ZONES & SUBDIVISIONS WITHIN RECOVERY ZONES

RECOVERY ZONES

09 = Blue Mountains / 10 = Columbia River / 11 = High Cascades / 12 = Willamette Basin / 13 = Oregon Coast and Umpqua Basin / 14 = Snake River Canyon / 21 = Harney Basin and Warner Mountains / 22 = Klamath Basin / 23 = California and Oregon Coast / 37 = Great Basin

RECOVERY ZONE & SUBDIVISION DESCRIPTIONS

- 09-1 Wallowa River & Grande Ronde River
- 09-2 Northeast Oregon other
- 10-1 Columbia River Miles 0-13 (Mouth to Astoria Megler Bridge + Youngs Bay & R)
- 10-2 Columbia River Miles 13-31 (Astoria Megler Bridge to Aldrich Point)
- 10-3 Columbia River Miles 31-47 (Aldrich Point to downstream end of Puget Is)
- 10-4 Columbia River Miles 47-86 (downstream end of Puget Is to Lewis R Mouth)
- 10-5 Columbia River Miles 86-102 (Lewis R Mouth to Willamette R Mouth)
- 10-6 Columbia River Miles 102-146 (Willamette R Mouth to Bonneville Dam)
- 10-7 Columbia River Miles 146-313 (Bonneville Dam to Washington border) o = Oregon; w = Washington
- 11-1 Deschutes River, headwaters downstream to Bend
 - a = Odell L; b = Crescent L; c = Davis L; d = Wickiup Res; e = Crane Pr Res;
 - f = Sites above Crane Pr Res; g = Sites below Wickiup Res; h = other
- 11-2 Deschutes River downstream from Bend to mouth
- a = above L Billy Chinook; b = L Billy Chinook; c = below L Billy Chinook
- 11-3 Crooked River + Awbrey Mountain
- 12-1 Willamette River corridor
- 12-2 Willamette & Sandy river basins; excluding Willamette River corridor
 - a = Coast & Middle Fork Willamette; b = McKenzie; c = Santiam; d = Tualatin;
 - e = Clackamas; f = Sandy; g = other

- 13-1 Coast north of the Siuslaw River basin
- 13-2 Coast, Siuslaw River basin and south to and including Humbug Mountain
- 13-3 Umpqua River

a = Main-stem corridor; b = Smith R; c = North Umpqua; d = South Umpqua

- 14 Snake River
- 21 Harney Basin & Warner Mountains
- 22-1 Upper Klamath Lake

a = All but Doak group; b = Doak group

22-2 Klamath Basin other

a = Other; b = Williamson R; c = Sprague R; d = Gerber Res; e = Lost R;

f = Klamath R

- 22-3 Fort Rock, Summer Lake & Goose Lake basins
 - a = Fort Rock & Summer L; b = Goose L
- 23-1 Rogue River & southwest Coast south of Humbug Mountain
 - a = Rogue River corridor; b = Lakes & Reservoirs; c = Coast; d = Illinois R
- 37-1 Malheur River
- 37-2 Owyhee River

SPECIAL NOTES

- /a = uncertain which nest was used in 1996 because both nests were located in 1997
- /b = original nest built by Osprey
- /c = nest used or location(s) uncertain; need to determine or verify locations or territories
- /d = -don't use because could be confused with d for downy chicks -
- /e = fresh egg(s) taken for analysis
- /e' = failure may have been caused by fresh eggs taken for analysis
- /f = nest on an artificial Osprey nest platform in a tree
- /g = original nest built by Red-tailed Hawks
- /h = nestling(s) banded
- /i = year water was treated in the fall to manage fish species composition
- / j = camera installed after nesting season
- /k = subadult female replaced an adult female and assisted in raising young
- /L = subadult and adult raised young
- /m = female rehabilitated; supplemental food provided for the male
- /n = nest tree burned in a wildfire
- /o = nest tree hit by lightning; nest partially destroyed
- /p = successful nesting on a manmade structure
- /q = open -
- / r = supplemental food provided during the breeding season as mitigation for treatment
- /s = first year nest tree was observed to be 100% dead
- /t = nest being repaired by Osprey
- /u = dead, feathered chick collected from the nest
- /v = male a subadult; female may have been
- /w = photography blind discovered near nest
- /x = open -
- /y = landowner would not allow access
- /z = Bald Eagle chick(s) and Red-tailed Hawk chick raised to fledging.

BALD EAGLE NEST LOCATIONS AND HISTORY OF USE IN OREGON AND RECOVERY ZONE 10 IN WASHINGTON Compiled by: Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish And Wildlife Research Unit, Oregon State University, Corvallis.

OREGON NESTS: Some may be listed in the Washington section if the breeding territory includes nests in both states.

	07S 48E 16 SW	878 Cottonwood Cr	14-1	PV																	1	2	al	al	al	al	NL
	07S 48E 16 SW	1005 Cottonwood Cr	14-1	PV																			*2	1	2	3/h	1
Bake	09S 45E 35 NE	1250 Eagle Cr	14-1	PV																						0?	0?
	10S 38E 27 NW	593 Phillips Res	09-2	FS									*oF/s	1	2 2	1	2	2	2d	2 1	2	1	1	1	2	F	F
	12S 36E 12 NW	590 Unity Res	09-2	FS					2	2 20	3 B	2	2	1	2 2	2	CR			al a	al	al	al	NL	NL	NL	NL
	12S 36E 12 SE	605 Unity Res	09-2	FS					2	2 2		-	2			-	*3			al a		NL	NL	NL	NL	F	NL
																	^3	ai	ai i	a a	NL 1			F			
	12S 36E 12 SE	641 Unity Res	09-2	FS														F	F	- 1		F	oF		F/s	al	1
Bent	11S 04W 09 NE	649 Hyak Park	12-1	PV														1	1	2 3/	s F	F	al	ND	N		
Bent	11S 04W 09 SE	998 Hyak Park	12-1	PV																			*1	al	al	NL	NL
Bent	11S 04W 09 SE	1064 Hyak Park	12-1	PV																				*2	2	1	3
Bent	12S 06W 19 SE	747 Corvallis Watershed	12-2g	CI															2/a	1 a	al	1	al	al	2	al	NL
	12S 06W 19 SE	793 Corvallis Watershed		CI															_/a	1 a	1		ai 2	2	al	2	1
			12-2g																	ai 2	-	ai	2	2		2	<u> </u>
Bent	13S 05W 20 NE	1053 Finley	12-2g	FWS																				oF	oF	0?	F
Bent	14S 04W 32 SE	941 Morgan Is	12-1	PV																		*2	2	3	F	oF	oF
Bent	14S 05W 24 NE	757 Harkens L	12-1	OPR																1 a	al	al	2d	2d	2d	2d	oF
	14S 05W 24 NW	805 Harkens L	12-1	OPR																1		F	al	al	al	al	al
	14S 09W 35 SE	214 Lobster Cr	13-1	PV						- 0	? U	Ш	U	U	U U	U	U		D,- N,	NS N	NS	NS	NS	NS	NS	NS	NS
			13-1	FV										-	0 0		-										
		or another Benton Co nest			< < < <	<	< <	<	<	< <	<	<	<	<	< <	<	<	<	<	< <	<	<	<	<	<	<	<
	02S 01E 09 SE	958 Lake Oswego	12-2d	PV																		2	ND	N		*2	2
Clac	02S 01E 09 SE	999 Lake Oswego	12-2d	PV																			*1,ND	*2,ND	*2,ND	N	
Clac	02S 03E 25 NW	995 Goose Cr	12-2e	PV																		2	ND	N			
	02S 03E 25 NW	1003 Goose Cr	12-2e	PV																			*2	NL	NL	NL	NL
	02S 03E 25 NW	1077 Goose Cr	12-2e	PV																			-	*oF	2	3	2
	025 05E 05 NW	1085 Roslyn L	12-2e	PV																				oF	oF	oF	1
																										-	
	03S 01E 20 SW	975 Molalla R Mouth	12-1	OPR																		1	F	1	al	al	al
Clac	03S 01E 20 SW	1123 Molalla R Mouth	12-1	OPR																					*F	0?	2
Clack	See: Wasco Co: Timothy I	L: for another Clackamas Co nest			< < < <	<	< <	<	<	< <	<	<	<	<	< <	<	<	<	<	< <	<	<	<	<	<	<	<
Clat	05N 10W 06 NW	177 Tillamook Head	13-1	OPR		0?	F of	0?	oF	oF a	al	1	oF	0?	al al	al	NL	NL	NL M	L N	. NL	NL	NL	NL	NL	NL	NL
	06N 10W 31 SW	178 Tillamook Head	13-1	OPR		-	al al		al	al a		al			al al	al	al			al a	ND						
						-	di di	di	dl													N					
	05N 11W 01 SE	213 Tillamook Head	13-1	OPR						F	0?	al	al	al	al al	al	NL			IL a		N					
Clat	05N 10W 06 NW	737 Tillamook Head	13-1	OPR															2	al a	NL	NL	NL	NL	NL	NL	NL
Clat	05N 11W 01 NE	798 Tillamook Head	13-1	OPR																1 1	1 2	F	oF	1d	2d	oF	NL
Clat	05N 10W 06 NW	1298 Tillamook Head	13-1	OPR																							1
Clat	05N 10W 07 SW	261 Indian Beach	13-1	OPR	_										1 oF	1	1	2	1	1 1	2	2	2	al	al	al	NL
	05N 10W 07 W1/2	673 Indian Beach	13-1	OPR											1 01				al	י י א ה	al	2	2	2	2	oF	F/c
				-														di	dl	a d		di	di	2	2	.	
	06N 10W 15 SE	829 Stanley L	13-1	PV																o		NL	NL	NL	NL	NL	NL
Clat	06N 10W 10 SE	867 Seaside Airport	13-1	CO																	F	al	1	2	1	al	1
Clat	06N 10W 10 NE	927 Mill Cr	13-1	PV																		2	NL	NL	NL	NL	NL
	06N 10W 15 NE	1207 Stanley L	13-1	PV																						1	al
Clat	06N 10W 31 NE	1082 Feldenheimer	13-1	OPR																				*oF	oF	NL	NL
	06N 10W 31 NE																							OF		NL	
		1165 Feldenheimer	13-1	OPR																					*al		NL
	06N 10W 31 NE	1229 Feldenheimer	13-1	OPR																						1	1d
Clat	07N 09W 04 SW	751 Haven Is	10-10	PV																F ol	ND	N					
Clat	08N 09W 33 SE	856 Louden	10-10	PV																	*F	1	2	2	2	ND,oF	N,U
Clat	07N 09W 10 NW	123 Youngs R	10-10	PV						1 N	D N																
												1			F -1	-1	al	-1	-1	al a	al	al	-1	-1	al	al	al
	07N 09W 10 NW	126 Youngs R	10-10	PV						2		1			F al	al				al a	a	ai	a	ai	a	ai	ai
	07N 09W 10 NW	127 Youngs R	10-10	PV							F/e'	al	al	al	al 2	F	3d	oF	N								
	07N 09W 10 NE	135 Youngs R	10-10	PV											al al	al	al	al	F	F o	1	1	F	oF	2	oF	oF
Clat	07N 09W 14 NW	1185 Olney	10-10	PV																					-	3	2
Clat	07N 09W 15 NW	1203 Battle Cr Slough	10-10	PV																						F	oF
Clat	07N 09W 31 SW	1013 Speelyai Cr	13-1	PV																		-	1	1	1	F	1
	07N 10W 01 NW	824 Lewis & Clark R	10-10	PV																- 2	2	1	2	2	2	1	oF
			13-1	CO																1	2	2	1	1	F	2	2
	07N 10W 22 NE	816 Cullaby L																		- 1		2	1	I.	г	۷	2
Clat	08N 06W 26 SW	137 Wauna	10-30	PV											oF	2	F/e'			L N		N					
Clat	08N 06W 35 NW	666 Wauna	10-30	ODF														2	F	2 2	1	TD	N				
Clat	07N 06W 03 NE	956 Nicolai Ridge	10-30	ODF																		2	oF	1	2	oF	al
	07N 06W 03 E1/2	1202 Nicolai Ridge	10-30	ODF																						al	1d
	08N 07W 02 NE	1008 Brownsmead	10-20	ODF																		-	1	1	2d	2d	F
	08N 09W 13 NE	845 John Day Point	10-20	ODF																*0	- 1	F	al	al	al	ND	*al
	08N 09W 13 NE	1017 Lois Is	10-20	FWS																			*3	al	F	2	2
Clat	08N 08W 18 NW	1099 Lois Is	10-20	FWS																				*1	al	NL	N
Clat	08N 09W 16 SW	113 Brown Cr	10-10	ODF	A? U - U	ND	N																				
	08N 09W 21 NW	136 Williamsport	10-10	ODF	6 0										*oF 1	1	oF	oF	1 (F ol	oF	2	F	al	al	al	
		1094 Williamsport	10-10	ODF													01	0F		. 0	UF	2		al	al	al	1
	09NL00W/21 NW	100 williamsport		CI																				ai	ai	oF	-
	08N 09W 21 NW	1000 01: 1 0 1																								OF	1
Clat	08N 09W 17 SE	1069 Shively Park	10-10																					2	2	0	
Clat Clat	08N 09W 17 SE 08N 07W 05 SE	118 Blind Slough	10-1o 10-2o	TNC			0	° 0?	U	al a		N												2	2	01	
Clat Clat	08N 09W 17 SE						0	° 0?	U	al a 2 ol		N al	N											2	2	01	
Clat Clat Clat	08N 09W 17 SE 08N 07W 05 SE 09N 07W 32 NW	118 Blind Slough 293 Marsh Is	10-2o 10-2o	TNC FWS			0	° 0?	U			al		ND	N				*	al a	اد	al	NI	NI	NI		NI
Clat Clat Clat Clat	08N 09W 17 SE 08N 07W 05 SE 09N 07W 32 NW 09N 07W 33 SE	118 Blind Slough 293 Marsh Is 128 Blind Slough	10-20 10-20 10-20	TNC FWS TNC			0	° 0?	U				oF		N 2 E	1	E/0'	21		al a	al	al	NL	NL	NL	NL	NL
Clat Clat Clat Clat Clat Clat	08N 09W 17 SE 08N 07W 05 SE 09N 07W 32 NW 09N 07W 33 SE 08N 07W 05 NE	118 Blind Slough 293 Marsh Is 128 Blind Slough 130 Blind Slough	10-20 10-20 10-20 10-20	TNC FWS TNC TNC			0.	° 0?	U			al	oF		N 2 F	1	F/e'		al	al a	al	CG	NL	NL	NL	NL NL	NL
Clat Clat Clat Clat Clat Clat Clat	08N 09W 17 SE 08N 07W 05 SE 09N 07W 32 NW 09N 07W 33 SE 08N 07W 05 NE 09N 07W 32 SE	118 Blind Slough 293 Marsh Is 128 Blind Slough 130 Blind Slough 651 Marsh Is	10-20 10-20 10-20 10-20 10-20	TNC FWS TNC TNC FWS	_		0.	° 0?	U			al	oF			1	F/e'		al		al		NL	NL al	NL al	NL NL U	
Clat Clat Clat Clat Clat Clat Clat	08N 09W 17 SE 08N 07W 05 SE 09N 07W 32 NW 09N 07W 33 SE 08N 07W 05 NE	118 Blind Slough 293 Marsh Is 128 Blind Slough 130 Blind Slough	10-20 10-20 10-20 10-20	TNC FWS TNC TNC	_		0	° 0?	U			al	oF			1	F/e'		al	al a	al	CG	NL	NL	NL	NL NL	NL

RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

Co TRS Location

No

Name

BALD EAGLE NEST LOCATIONS AND HISTORY OF USE IN OREGON AND RECOVERY ZONE 10 IN WASHINGTON Compiled by: Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish And Wildlife Research Unit, Oregon State University, Corvallis.

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

OREGON NESTS: Some may be listed in the Washington section if the breeding territory includes nests in both states.

lat 08N 07W 33 SW	1204 Long Is	10-20	TNC																													2d	1
at 08N 07W 08 NW	718 Warren Slough	10-20	TNC																					1	oF	oF	F	F	2	F	oF	U	al
t 08N 07W 08 NW	1163 Warren Slough	10-20	TNC																												*al	U	2
t 08N 07W 10 NE	746 Gnat Cr	10-20	PV																					F	U	NL	NL	NL	NL	ND	N		
at 08N 07W 10 NE at 08N 07W 10 NE	822 Gnat Cr 952 Gnat Cr	10-2o 10-2o	PV PV																							1	F	al 1	ND 2	N F	2	2	2
at 08N 07W 10 NE	108 Calendar Slough	10-20	PV				al	el	al	al	ND	N																	2	F	2	2	2
at 08N 08W 14 NE	109 Svensen Is	10-20	PV	-	RT	-	al	al	al	al	ND	N																					
at 08N 07W 07 NW	296 Karlson Is	10-20	FWS	0	i.i.	-	al	al	al	al	al	NL	N																				
at 08N 07W 07 NE	297 Karlson Is	10-20	FWS			-	F	oF	F	F	F	F	F	al	al	F	oF	oF	oF	ND	N												
at 08N 08W 14 SW	119 Svensen Is	10-20	PV							al	al	al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	Ν									
at 08N 07W 07 NE	299 Karlson Is	10-20	FWS											F	oF	al	al	CG	al C	G,oF	ND	N											
at 08N 07W 07 SE	307 Karlson Is	10-20	FWS																		oF	0?	0?	oF	NL,0?	N,0?	0?	0?					
at 08N 08W 14 NE	1015 Svensen Is	10-20	PV																										*oF	oF	F	F	al
lat 08N 08W 13 NE lat 08N 07W 07 S1/2	1278 Calendar Slough 1097 Karlson Is	10-2o 10-2o	PV FWS	_																										-1	oF	oF	1 oF
lat 08N 07W 07 ST/2	1097 Karison is 1016 Cathlamet Bay	10-20	FWS																										oF	oF	al	0F F	al
lat 08N 08W 07 SW	1139 Cathlamet Bay	10-20	FWS																										OF	OF	ai *F	F	ai F
lat 08N 08W 20 SE	110 Twilight	10-20	PV	A?	2	1	2	F/s	1	F	2	1	1	1	F	F	F	F	al	1	TD	Ν										Ci.	
lat 08N 08W 20 NE	133 Twilight	10-20	C0&0I		-	•	-	.,,,		•	-		·	•		·				ND	N												
lat 08N 08W 20 NE	140 Twilight	10-20	CO&OI																		*oF	oF	F	oF	al	al	al	ND	Ν				
lat 08N 08W 20 NE	789 Twilight	10-20	C0&01																						*oF	F	oF	al	al	al	NL	NL	NL
lat 08N 08W 20 NE	983 Twilight	10-20	C0&0I	EF																								*oF	oF	oF	1	F	F
lat 08N 08W 21 SE	650 Marys Cr	10-20	PV																				F/e'	al	al	NL	NL	NL	NL	al	al	ND	N
lat 08N 08W 28 NW lat 08N 08W 28 NW	716 Marys Cr 825 Marys Cr	10-2o 10-2o	PV PV																					2	F	al F	F NL	NL 3	al	NL oF	NL oF	ND oF	N oF
lat 08N 08W 28 NW	111 Mill Cr	10-20	ODF	-	-	0?	U	al	al	al	al	al	ND	N												r	INL	J	1°	UF	UF	UF	UF
lat 08N 09W 02 NE	112 Tongue Point	10-20	CG	-	-	al	U	al	al	al	al	al	al	al	al	N																	
lat 08N 09W 11 SW	114 Mill Cr	10-20	FWS			a	0	F	F	al	al	F	al	1	1	F	oF	oF	al	al	al	NL	NL	NL	NL	Ν							
lat 08N 09W 11 SW	117 Mill Cr	10-20	FWS							1	al	ND	N																				
lat 08N 09W 11 SW	121 Mill Cr	10-20	FWS								*1	al	1	al	al	al	al	ND	*1	F	oF	NL	NL	NL	NL	Ν							
lat 08N 09W 11 SW	129 Mill Cr	10-20	FWS															al	ND	Ν													
lat 08N 09W 11 SW	609 Mill Cr	10-20	FWS																			F	NL	NL	NL	Ν							
lat 08N 09W 02 NE	664 Tongue Point	10-20	CG																				1	F	ND	N		_					
lat 08N 09W 02 NE lat 08N 09W 02 NE	788 Tongue Point 1161 Tongue Point	10-2o 10-2o	CG CG																						oF	oF	2	F	1	1	al *1	al oF	NL oF
lat 08N 09W 02 NE	984 Coxcomb Hill	10-20	Cl																									oF	oF	al	al	al	ND/c
lat 08N 09W 16 NE	1070 Coxcomb Hill	10-20	CI																									01	01	1	F	F	1/c
lat 08N 09W 07 SW	1164 Astoria Water Tower	10-20	PV																												U	1	F
lat 08N 10W 07 E1/2	144 Fort Stevens	10-10	OPR																		2	2	U	al	al	al	oF	oF	oF	al	al	al	NL
lat 08N 10W 07 SE	608 Fort Stevens	10-10	OPR																			al	U	1	1	oF	NL	NL	NL	NL	NL	N	
lat 08N 10W 07 NE	1096 Fort Stevens	10-10	OPR																											1	2	F	1
lat 08N 10W 16 NE	138 Tansy Point	10-10	PV	_														-	-	2	al	al	NL	N								*2	2
lat 08N 10W 17 SE lat 08N 10W 17 SE	143 Clear L Clatsop 665 Clear L Clatsop	10-1o 10-1o	PV PV																		1	3d	al	al 1	ND F	N	2	1	oF	oF	1	1d	0?
	Washington: Welch Is W: for another Clats		PV		<	<																	1	1	г -	-	2	1	0F	UF		- Tu - <	< 01
lat 09N 06W 28 SW	291 Tenasillahe Is	10-30	FWS	-	-	-	-	<u> </u>	0?	0?	NL	0?	al	F/e'	oF	oF	al	al	al	al	ND	Ň		-	-		· ·						
lat 09N 06W 28 SW	292 Tenasillahe Is	10-30	FWS						0.	0.		Ο.	F/g	al	al	al	1	1	F	2	F	al	CG	CG	CG	NL	NL	Ν				CG	CG
lat 09N 06W 28 SW	301 Tenasillahe Is	10-30	FWS										•		al	al	al	al	al	al	ND	N											
lat 09N 06W 33 SW	610 Tenasillahe Is	10-30	FWS																			*F/e'	CG	CG	NL	NL	NL	Ν					
lat 09N 06W 28 SW	759 Tenasillahe Is	10-30	FWS																						*2	2	CG	CG	CG	CG	ND	N	_
Vahk 09N 06W 27 SW	1250-1 North Hunting Is WA	10-3w	FWS	_																			-			-	2	2	1	3d	2d	2d	3
Vahk 09N 60W 34 NW	1060-1 Hunting Is WA	10-3w	FWS																				F	2	1	2	oF	oF	al oF	F	1	F	NL
Vahk 09N 06W 27 SW Vahk 09N 06W 34 SE	1060-2 Hunting Is WA 1060-3 Hunting Is WA	10-3w 10-3w	FWS FWS																										OF	а	NL	NL	NL oF
lat 09N 06W 31 NW	105 Clifton Channel	10-3w	ODF		1	2	F	oF	oF	al	al	2	al	al	al	al	al	oF	al	al	al	al	al	al	al	NL	Ν	*oF	oF	oF	oF	oF	F
lat 09N 06W 31 NW	116 Clifton Channel	10-30	ODF			-		01	al	F	oF	al	2	2	2d	oF	1d	ND	*1	F	ND	N	ai	61	CII	THE		0	01	01	0	0	
lat 09N 06W 30 SW	949 Tenasillahe Is W	10-30	FWS	_													-											CG	CG	CG	CG	ND	Ν
	308 Welch Is	10-30	FWS	•																	*oF	F	oF	oF	CG	ND	N						
lat 09N 06W 19 SW	715 Welch Is	10-30	FWS																					al	al	ND	Ν						
lat 09N 06W 19 SE		10-30	FWS																						oF	CG,oF	CG	CG	ND	*0?	CG,U	CG,U	al
Clat 09N 06W 19 SE Clat 09N 06W 20 SW	790 Welch Is		FWS																								*oF	oF	oF,NL	ND	N	*U	al
Clat 09N 06W 19 SE Clat 09N 06W 20 SW Clat 09N 06W 20 NW	790 Welch Is 890 Welch Is	10-30																															2
Clat 09N 06W 19 SE Clat 09N 06W 20 SW Clat 09N 06W 20 NW Clat 09N 06W 20 NW	790 Welch Is 890 Welch Is 1279 Welch Is	10-30	FWS																												NII		N
Clat 09N 06W 19 SE Clat 09N 06W 20 SW Clat 09N 06W 20 NW Clat 09N 06W 20 NW Clat 09N 06W 20 NW Clat 09N 06W 31 SW	790 Welch Is 890 Welch Is 1279 Welch Is 779 Clifton	10-3o 10-3o	FWS																						2	2d	3	al *oE	al 1	NL 2	NL 2d	NL	N
Clat O9N 06W 19 SE Clat O9N 06W 20 SW Clat O9N 06W 20 NW Clat O9N 06W 20 NW Clat O9N 06W 31 SW Clat O9N 06W 31 SI/2	790 Welch Is 890 Welch Is 1279 Welch Is 779 Clifton 948 Clifton	10-3o 10-3o 10-3o	FWS ODF ODF																						2	2d	3	al *oF	al 1	NL 2	NL 2d	NL ND *oF	N 2
Clat 09N 06W 19 SE Clat 09N 06W 20 SW Clat 09N 06W 20 NW Clat 09N 06W 20 NW Clat 09N 06W 20 NW Clat 09N 06W 31 SW	790 Welch Is 890 Welch Is 1279 Welch Is 779 Clifton 948 Clifton 1197 Clifton	10-3o 10-3o	FWS ODF ODF ODF																	*_	3	2	F/e'	oF	Z ND,U		3 U				2d	ND *oF	N 2
Clat O9N 06W 19 SE Clat O9N 06W 20 SW Clat O9N 06W 20 NW Clat O9N 06W 20 NW Clat O9N 06W 20 NW Clat O9N 06W 31 SW Clat O9N 06W 31 SI Clat O8N 06W 31 SE	790 Welch Is 890 Welch Is 1279 Welch Is 779 Clifton 948 Clifton	10-30 10-30 10-30 10-30	FWS ODF ODF	A?	1	_	1	0?	F	al	al	al	al	1	oF	oF	1	al	1	*_ al	3 al	2 al	F/e' al	oF		2d N,U NL		*oF	1	2		ND	2
lat 09N 06W 19 SE lat 09N 06W 20 SW lat 09N 06W 20 SW lat 09N 06W 20 NW lat 09N 06W 20 NW lat 09N 06W 31 SW lat 09N 06W 31 SI/2 lat 09N 06W 31 SI/2 lat 09N 06W 31 SE lat 09N 06W 31 SE lat 09N 07W 21 SE	790 Welch Is 890 Welch Is 1279 Welch Is 779 Clifton 948 Clifton 1197 Clifton 305 Woody Is	10-30 10-30 10-30 10-30 10-20	FWS ODF ODF ODF DSL	A?	1	- U	1 al	O? al	F	al al	al al	al 1	al F	1 al	oF al	oF al	1 al	al 1	1 al		0	_			ND,U	N,U	U	*oF U	1 U	2 U	2d	ND *oF	2
at 09N 06W 19 SE at 09N 06W 20 SW at 09N 06W 20 NW at 09N 06W 20 NW at 09N 06W 21 NW at 09N 06W 31 SW at 09N 06W 31 SW at 08N 06W 31 SE at 09N 07W 21 SE at 09N 07W 25 SW	790 Welch Is 890 Welch Is 1279 Welch Is 779 Clifton 948 Clifton 1197 Clifton 305 Woody Is 106 Aldrich Point	10-30 10-30 10-30 10-30 10-20 10-30	FWS ODF ODF ODF DSL ODF	A?	1	- U -	1 al al		F al al	al al al		al 1 al		1 al al			1 al al			al	al	al	al	al	ND,U al	N,U NL	UNL	*oF U NL	1 U ND	2 U N	2d NS	ND *oF NS	2

2
Co TRS Location	No	Name	RZ	Own	76 77 7	8 79	80	81	82	83	84	85	86	87	88	89	90	91	92 93	94	95	96	97	98	99	00	01	02	03	04	05

Cl-+ 00N 07W 24 CE	200 0	10.2-	EW/C				-1 N																								
Clat 09N 07W 24 SE Clat 09N 07W 25 SW	298 Quinns Is 120 Aldrich Point	10-3o 10-3o	FWS ODF				al N	1L 1		i ND	N																				
Clat 09N 07W 25 SE	714 Aldrich Point	10-30	ODF																			1	oF	2	2	2	2	oF	oF	2	2
Clat 09N 08W ? ?	306 Rice Is	10-20	COE															al/s	al	NL	NL	Ν									
Wahk 09N 08W 20 ?	0380-1 Rice Is WA	10-2w	COE														F	al	al	al	N										
Clat 09N 08W 22 SW Clat 09N 08W 22 SW	303 Miller Sands 954 Miller Sands	10-2o 10-2o	COE															*F	2	3	F/e'	al	ND	Ν		*al	2	r	F	oF	CG,of
Clat 09N 08W 22 SW	717 Miller Sands	10-20	COE																			2	oF	2	2	3	2	r al	г al	1d	1
Colu 03N 01W 11 NE	1056 Willow Point Sauvie Is	10-50	PV																			-	01		-		a	1	al	al	al
Colu 03N 01W 11 NE	1071 Willow Point Sauvie Is	10-50	PV																									al	1	1	2
Colu 03N 01W 14 NW	1274 Lost Prairie	10-50	DFW																												2
Colu 03N 01W 14 SW	601 Sauvie Is	10-50	DFW																	F	F,ND	Ν									
Mult 03N 01W 23 SE	698 Sauvie Is	10-50	PV																			oF	al *2	al	NL	ND	N	-		02	2
Colu 03N 01W 14 SE Colu 03N 01W 14 SE	748 Willow Bar Is 866 Willow Bar Is	10-5o 10-5o	DFW DFW																				~Z	2	al ND,F	2 N	oF	F	1	0?	2
Colu 03N 01W 21 NW	1145 Oak Is	10-50	DFW																						110,1				*F	al	NL
Colu 03N 01W 21 NW	1162 Oak Is	10-50	DFW																										*al	1	2
Colu 03N 01W 17 SE	753 Chapman Landing	10-50	DFW																				F	al	al	oF	GH,U	GH,U	ND,U	NS	U
Colu 03N 01W 09 SE	799 Malarky	10-50	DFW																					1	ND	N					
Colu 03N 01W 04 SW Colu 03N 01W 04 NE	870 Coon Is 925 Crane L	10-5o 10-5o	DFW DFW																						F	al	al 1	al	al	al 1	al
Colu 04N 01W 33 SE	950 McNary L	10-50	DFW																							F	2	E	3	2	NL
Colu 04N 01W 33 3E	951 McNary L	10-50	DFW																							al	al	al	al	al	2
Colu 04N 01W 10 SW	1253 Cunningham Slough Mouth	10-50	DFW																												oF
Colu 04N 01W 16 SW	132 Scappoose Bay	10-50	CI														2	1	oF	al	ND	Ν									
Colu 04N 01W 20 NE	803 Hogan Ranch	10-50	PV																	2			. 1	2	2	oF	1			1	2
Clar 04N 01W 26 NW Clar 04N 01W 26 NW	1008-1 Bachelor Is WA 1008-2 Bachelor Is WA	10-5w 10-5w	FWS FWS																	2	1	oF al	al 1	al F	ı al	al al	al NL	al NL	GH NL	NL NL	NL NL
Clar 04N 01W 28 NW	1008-2 Bachelor Is WA	10-5w	FWS																			dl	'	г	ai *al	al	1d	1	al	NL	NL
Clar 04N 01W 26/27 N		10-5w	FWS																						c.	*2	NL	NL	NL	NL	NL
Clar 04N 01W 26 SW	1008-5 Bachelor Is WA	10-5w	FWS																										*2	1d	1
Colu 05N 01W 09 NW	613 Goat Is	10-40	DSL?																	ND,F	Ν		*al	CG	al	CG	al	al	al	CG	ND
Colu 05N 01W 17 SW	663 Old Fairgrounds	10-40	PV																		2	1	oF	2	ND	N				-	-
Colu 05N 01W 17 SW Colu 05N 01W 16 SW	857 Old Fairgrounds 1273 Old Fairgrounds	10-4o 10-4o	PV PV																						*2	1	2	2	1	oF	oF al
Colu 05N 01W 10 SM		10-40	DSL?																											GH	2
Colu 05N 01W 33 NW	871 Freytag	10-50	PV																						1	al	al	ND	N		
Cowl 05N 01W 27 S1/2	0339-2 Austin Point WA	10-5w	PV																							*1	2	2	F	3d	3
Colu 05N 04W 34 NE	1299 Vernonia	13-1	PV																												oF
Colu 06N 02W 01 NW Colu 06N 02W 01 SW	699 Coffin Rock 767 Neer Cemetary	10-4o 10-4o	PV PV																		0?	F	al 2	CG	NL 1	al F	NL 2	NL 2	NL 2	ND 2	N 2
Colu 06N 02W 01 3W	134 Goble	10-40	PV														1	1	ND	N			2				2			2	2
Colu 06N 02W 24 SE	142 Goble	10-40	PV																F	al	1	oF	F	oF	2	al	al	al	al	al	NL
Colu 06N 02W 24 SE	612 Goble	10-40	PV																	F	al	al	al	al	al	al	al	al	al	al	NL
Colu 06N 02W 24 SE	953 Goble	10-40	PV																							*F	2	2	2	al	NL
Colu 06N 02W 24 SE	1200 Goble	10-40	PV																											2d	1
Colu 06N 05W 22 SE Colu 06N 05W 15 NE	1166 Calvin Cr 1169 Calvin Cr	13-1 13-1	PV PV																										oF al	al al	al al
Colu 06N 05W 15 NE	1205 Calvin Cr	13-1	PV																										ai	F	2
Colu 07N 02W 23 SW	139 Lindberg	10-40	PV															-	1	oF	1/e	2	2	1	2	2	1	2	2	2	F
Colu 07N 02W 35 NW	1078 Prescott	10-40	PV																									F	2	2d	3
Colu 07N 05W 01 SE	103 Kleger	10-40	PV	A?		oF	al 1		d al		al	al	al	al	al	1	2	2	1	al	al	2	oF	al	al	al	al	al	al	al	al
Colu 07N 05W 01 SE Colu 07N 05W 01 SE	104 Kleger	10-4o 10-4o	PV PV	al	al	al	F a	al a	al 2	2	F	oF	oF	1	F	TD	N			*2	F/e'	al	al	al	al	al	al	al	al	al	al
Colu 07N 05W 01 SE Colu 07N 04W 06 SW	611 Kleger 787 Kleger	10-40 10-40	PV PV																	~2	r/e	aı	al al	al al	ai al	al al	al NL	ai NL	ai ND	al N	al
Colu 08N 05W 36 NE	767 Wallace Is	10-40	PV																				al	ai 1	F	al	al	al	al	1d	NL
Colu 08N 05W 36 NE	908 Wallace Is	10-40	PV																					•	*al	2	1d	1d	1d	al	2
Colu 08N 05W 35 N1/2		10-40	PV																			al	al	CG	NL	al	NL	NL	ND	Ν	NL
Colu 08N 05W 35 NW	955 West Wallace Is	10-40	PV																							F	RT	al	al	al	al
Colu 08N 05W 35 NW	1019 West Wallace Is	10-40	PV					2 1		2	1	2		-5		-5	1	1	-1	-1	-	1	-	-	-	ND	*F	F	1	2d	2
Colu 08N 03W 28 NW Colu 08N 03W 28 NW	115 Mayger 122 Mayger	10-4o 10-4o	PV PV	-	-	-	- 2	2 2	2 F	2 al	1 al	2 al	F	oF al	oF al	oF al	1 al	1 NL	al NL	al NL	F NL	1 NL	al NL	al NL	al NL	ND ND	N N				
Colu 08N 03W 28 NW	122 Mayger 131 Mayger	10-40	PV PV							di	di	di	di	di	di	al	al	al	al	NL	NL	NL	NL	NL	NL	ND	N				
Cowl 08N 03W 21 SE	0606-1 Fisher Is WA	10-4w	PV													a	-		A?	F/e'	al	CG	2	2	1	1	1	2	2	2d	1
Cowl 08N 03W 16 SW	0606-2 Fisher Is W WA	10-4w	PV																										*al	1d	2
Colu 08N 03W 35 SE	1182 Lord Is	10-40	CLT																											oF	oF
Colu 08N 04W 20 SW	823 Erickson Dike	10-40	PV																					1	1	1	1	2	1	oF	NL
Colu 08N 04W 20 SW Colu 08N 04W 20 SW	1198 Erickson Dike 1280 Poysky Slough	10-4o 10-4o	PV PV?																											al	F 1d
COLU UNIN U4W 20 SW			DSL?																												F
Colu 08N 04W 19 SW	1255 Eagle Cliff Is	10-40																													

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05
--

OREGON NESTS: Some may be listed in the Washington section if the breeding territory includes nests in both states.

UREGUN NESTS:	Some may i	be listed in the washington section	The breeding territor	y includes	5 110303 1	in boan	states.																											
Cowl 08N 04V	N 10 NE	0656-2 Abernathy WA	10-4w	WDW											F/e'	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	
Cowl 08N 04V		0656-1 Abernathy WA	10-4w	WDW								1	F	c	al	al	al	al	al	ai	ai	ai	ai	ai	ai	NL	N	ai	ai	ai	ai	ai	ai	
Colu 08N 04V		300 Crims Is	10-4w	PV											ai	F	al	1	al	1	F	oF	F/e'	oF	CG	al	CG	NL	ND	N				
Colu 08N 04V		302 Gull Is	10-40	PV												г	аі г	al	ai 1	CG	CG	CG	ND	N	CG	dl	CG	INL	ND	IN				
				PV													г	di		CG	CG	CG	ND	IN	F		F			oF		- 5	-1	-1
Colu 08N 04V		701 Crims Is	10-40																						F	1	F	oF	oF	OF	oF	oF	al	a
	V 15 N1/2	1196 Crims Is	10-40	PV																													2d	1
Colu 08N 04V		1254 Crims Is	10-40	PV																														al
Colu 08N 04V		1283 Locoda	10-40	PV																														2
Coos 23S 11W		215 Alder Fork Big Cr	13-2	ODF										2	F	oF	1	F	F	2	1	F	0?	U	0?	U	0?	U	ND,U	-	NS	N,U	NS	NS
Coos 23S 12W		750 Willow Point	13-2	PV																						2	2	2	F	1	2	2	2	F
Coos 23S 13W		164 Tenmile Cr	13-2	PV	2	2	2	oF	al	al	al	F	al	U	U	U	U	U	U	ND	N													
Coos 23S 13W	V 23 SE	165 Tenmile Cr	13-2	PV	al	al	al	al	al	al	al	al	al	U	U	U	U	U	ND	N														
Coos 23S 13W	V 23 SE	166 Tenmile Cr	13-2	PV				al	2	2	F	al	F	U	U	U	U	U	U	NL,U	U	ND,U	N,0?	U	U	U	NS	NS	NS	U	0?	NS	NS	NS
Coos 24S 12W	V 04 N1/2	210 Palouse Cr	13-2	PV										1	2	2d	1	1	2	1	1	ND	Ν		*1	F	oF	oF	2	2	1	oF	F	F
Coos 24S 12W	V 04 NE	286 Palouse Cr	13-2	PV																		*oF	F	ND	N									
Coos 24S 12W	V 04 NF	645 Palouse Cr	13-2	PV																				1	TD	Ν								
Coos 24S 11W	V 04 NW	1307 Palouse Cr	13-2	PV																														*al
Coos 24S 13W		167 Mettman Ridge	13-2	PV	1	2	2	F	F	F	F	1d	F	2	oF	F	al	al	al	al	al	al	al	al	TD	N								
Coos 24S 13W		234 Mettman Ridge	13-2	PV		2	-					i u		2	01		с С	al	al	al	al	NL	NL	N	10									
Coos 245 13W		246 Mettman Ridge	13-2	PV														*F	oF	1	al	1	al	2	al	al	al	2	al	al	г	al	al	-
Coos 245 13W		256 Mettman Ridge	13-2	PV														F	al	al	F	al	1	al	ai 1	2	а с	2	ai E	oF	г ე	2d	ai c	г al
																			ai	ai		ai	0?			2		ai		0	ai	Zu		ai
Coos 25S 11W		639 Bessey Cr	13-2	PV																			0?	NL	N							ND 5 +		
Coos 25S 11W		685 Dellwood	13-2	PV																				*oF	F	2	1	2	1	2	2	ND,F,*	2	2
Coos 25S 11W		654 Rachel Cr	13-2	PV																				al	al	al	al	NL	ND	Ν				
Coos 25S 11W		687 Morgan Ridge	13-2	PV																				al	al	ND	N							
Coos 25S 12W		1246 Echo Valley	13-2	PV																													1	2
Coos 26S 14W		217 South Slough	13-2	PV											2	2	2	2	2	1	1	oF	1	1	2	2	2	2	2	1	2	1	1	F
Coos 27S 13W	V 09 NW	168 Coos County	13-2	CO	-	1	oF	F	oF	1d	1	F	1	1	F	1	F	F	2	F	2	1	2	F	TD	N								
Coos 27S 13W	V 09 NW	703 Coos County	13-2	CO																					*F	F	F	2	2	F	2	2	2	2
Coos 28S 10W	V 09 SW	267 Brewster Gorge	13-2	BLM																F	0?	U	U	U	U	U	NL,U	N,U	U	0?	NS	0?	NS	NS
Coos 28S 10W	V 09 SW	270 Brewster Gorge	13-2	BLM																*al	al	U	NL	NL	N									
Coos 28S 13W	V 26 NE	1262 Fishtrap Cr Antuch	13-2	PV																														1
	V 14 N1/2	848 Randolph Is	13-2	PV																						-	1	ND	N					
Coos 285 14W		884 Randolph Is	13-2	PV																								*oF	1	F	F	al	2d	2
Coos 28S 14W		1136 Randolph Is	13-2	PV																								01				1	al	NL
Coos 29S 14W		850 Lower Twomile Cr	13-2	PV																						-	oF	ND,F	Ν			· ·	Ci.	
Coos 295 14W		911 Lower Twomile Cr	13-2	PV																							01	*al	2	F	1	2	oF	1
Coos 295 14W		1049 Lower Twomile Cr	13-2	PV																								ai	2	*al	al	NL	ND	N
				BLM																						-	F							NL
Coos 31S 12W		777 Baker Cr	13-2																							oF	F	oF	al	al	NL	NL	NL	NL
Coos 31S 12W		985 Baker Cr	13-2	BLM																									2	2	ND *1	N		
Coos 31S 12W		1068 Baker Cr	13-2	BLM																											*	2		1
Croo 12S 16E		596 Awbrey Mt	11-3	PV															-	2	1	2	2	F	TD	N								
Croo 12S 16E		719 Awbrey Mt	11-3	PV																					F	oF	al	NL	ND	Ν				
Croo 12S 16E		785 Awbrey Mt	11-3	PV																						*al	1	oF	2	1	TD	N		
Croo 12S 16E		1072 Awbrey Mt	11-3	PV																											*2	2	-	oF
Croo 12S 16E		1311 Awbrey Mt	11-3	PV																														*al
Croo 13S 15E	17 SE	598 Grizzly Mt	11-3	BLM																1	1	oF	F	2	2	1	2	2	oF	oF	1	1	oF	F
Croo 13S 16E	22 SE	591 McKay Cr	11-3	PV												2d	1/k	2/L	1/L	2	3	2	2	2	1	2	ND	N						
Croo 13S 16E		830 McKay Cr	11-3	PV																							0?	2	F	2	2	al	NL	
Croo 13S 16E	22 SE	1138 McKay Cr	11-3	PV																												*2	2	3
Croo 13S 20E	36 SE	775 Shady Cr Res	11-3	FS																						oF	2	2	2	al	al	al	2	al
Croo 13S 20E		1046 Shady Cr Res	11-3	FS																										*oF	0?	F	al	1
Croo 15S 14E		988 Huston L	11-3	PV																								-	1	1	CG,0?	U	ND,0?	NS
Croo 15S 17E		868 Ochoco Cr	11-3	BLM																								2	1	oF	1	2	2	ND,oF
Croo 155 17E		752 Combs Flat	11-3	PV																					-	oF	oF	oF	oF	TD,U	N,U	U	NS	NS
Croo 155 24E		835 Wolf Cr	11-3	FS																						-	oF	2	1	2	2	2d	2	1
Croo 16S 18E		1178 Bonnieview	11-3	BLM																							0	-		-	L	20	*F	1
		1309 Lucky Wickiup	11-3	PV																													г	al
																													<u> </u>	-		F (
Croo 16S 22E Croo 16S 22E		900 Rabbit Valley 920 Rabbit Valley	11-3 11-3	BLM PV																							-	al O?	al 2	2 al	2 al	oF/o al	1 al	al 1
																											-					-		<u> </u>
Croo 17S 17E		729 North Alkali Flat	11-3	BLM																					1	A?	1	1	oF	2	ND,*	F	2	F
Croo 16S 17E		1055 Owl Cr	11-3	BLM																											*F	al	al	NL
Croo 17S 20E		901 Miller L	11-3	FS																								A?	2	2	1	oF	oF	oF
Croo 18S 19E		846 Antelope Flat Res	11-3	FS																							al	F	al	al	2	1	1	1
Croo 18S 19E	24 NE	847 Antelope Flat Res	11-3	FS																							oF	al	1	1	al	al	al	al
Curr 31S 15W	V 17 NE	278 Floras L	13-2	PV																-	F	ND,0?	N,U	0?	-	U	U	0?	0?	0?	0?	NS	NS	NS
Curr 33S 09W	V 17 NE	1150 Battle Bar	23-1a	BLM																												1	NS	1
Curr 34S 11W	V 17 SE	192 Watson Cr	23-1a	FS							-	F	1	F	F	2	2	oF	1	1	2	2	F	oF	al	al	al	al	al	NL	NL	NL	NL	NL
Curr 34S 11W		744 Watson Cr	23-1a	FS																					2	F	oF	1	oF	al	al	al	oF	0?
Curr 34S 11W		1018 Watson Cr	23-1a	FS																										F	2	NL,0?	al	NL
Curr 36S 14W		189 Libby Cr	23-1a	PV							F	1	2	2	al	al	2	al	2	al	al	1	al	2	oF	2	2	F	0?	U	0?	NL	NL	NL
500 I TH			25 18	. •							•		-	-	an	cii	-	an	2	cii	a		an	-		-	4		9:	5	0.			

	Co TRS Locati	on No	Name	RZ	Own	76 77 7	8 79	80	81	82	83	84	85	86	87	88	89	90	91	92 9	93	94	95	96	97	98	99	00	01	02	03	04	05	
--	---------------	-------	------	----	-----	---------	------	----	----	----	----	----	----	----	----	----	----	----	----	------	----	----	----	----	----	----	----	----	----	----	----	----	----	--

Curr 36S 14W 10 NE	193 Libby Cr	23-1a	BLM								al	al	al	0?	1	al	2	al	2	1	al	2	al	al	al	al	al	al	U	al	2	2	F
Desc 14S 10E 34 SE	1284 Camp Polk	11-2a	FS																														oF
Desc 15S 10E 23 NE	386 Cloverdale	11-2a	FS											al	al	al	2 al	1	2	F	al	al	al	al	al	al	al	al	NL	NL	NL	NL	NL
Desc 15S 10E 23 NE Desc 15S 10E 23 SW	387 Cloverdale 987 Cloverdale	11-2a 11-2a	FS FS											2	2	1	al	al	al	al	2	2	oF	oF	oF	oF	0?	al	NL	NL 2	NL 2	NL 2	NL 2
Desc 17S 11E 26 NW	385 Shevlin Park	11-2a	CI											0?	F	0?	U	U	U	ND.U	NS	N.U	0?	0?	NS	U	U	NS	NS	NS	NS	NS	NS
Desc 18S 08E 32 NE	328 Elk L	11-2a	FS	2	U	2	2d	oF	2d	2d	2	oF	2	oF	F	ND	N	0	0	ND,0	113	N,0	01	0:	NJ	0	0	N3	143	113	143	IN 3	113
Desc 185 08E 33 N1/2	393 Hosmer L	11-1f	FS	-	0	2	20	01	20	20	2	01	2	01		2	2	2	oF	F	1	1	2	oF	oF	2	1	2	2	2	2	07	1
Desc 19S 08E 27 W1/2	390 Lava L	11-1f	FS												F	F	F	al	al	al	al	al	al	al	NL	ND	N	-	al	al	al	2	1
Desc 19S 08E 27 SE	402 Lava L	11-1f	FS															F	F	2	1	0?	1	oF	oF	oF	ND	N					
Desc 19S 08E 22 NW	917 Lava L	11-1f	FS																								*oF	oF	2	oF	F	al	al
Desc 20S 08E 17 NE	327 Benchmark Butte	11-1f	FS	1	U	-	1	oF	1	U	oF	U	al	al	al	al	al	CG	U	al	al	al	al	al	al	NL	NL	NL	NL	NL	NL	TD	N
Desc 20S 08E 16 NW	384 Benchmark Butte	11-1f	FS										2	1	2	F	oF	al	U	al	1	oF	2	F	oF	2	2	oF	oF	oF	F	oF	oF
Desc 20S 08E 16 NW	409 Benchmark Butte	11-1f	FS															1	U	oF	al	al	al	al	al	NL	NL	NL	NL	NL	NL	ND	N
Desc 20S 08E 29 W1/2	962 Cultus R	11-1e	FS																									F	ND	N	2	1	
Desc 20S 08E 19 SE	1037 Cultus R	11-1e	FS		-			-	-	-					-	-	00 F													2	2	1	
Desc 20S 08E 33 SE Desc 20S 08E 33 SE	317 Crane Pr Res NE 357 Crane Pr Res NE	11-1e 11-1e	FS FS	2	F	1	2	F	oF al	oF al	CG al	U U	CG al	al	F al	F al	CG,oF CG	CG NL	CG NL	al NL	NL NL	NL NL	N NL	NL	NL	N							
Desc 205 08E 33 SE	366 Crane Pr Res NE	11-1e	FS					ai	al	al	oF	U	oF	al	NL	NL	NL	N	INL.	INC	INL	INL.	INL	INL	INC	IN IN							
Desc 20S 08E 33 SE	399 Crane Pr Res NE	11-1e	FS						a	a	01	0	01	ai	INC.			1	2	2	oF	1	oF	oF	oF	oF	CG,oF	0?	CG,0?	CG,0?	CG,U	CG,-	CG,U
Desc 20S 10E 34 SW	311 Bates Butte	11-1g	OPR	U	2	*2.ND	*1.ND	*1.ND	*2,ND	F	1	2	2	F	1	2	2	F	2	2	F	2	1	2	3	oF	al	al	NL	NL	NL	NL.	NL
Desc 20S 10E 34 SE	854 Bates Butte	11-1g	OPR			, .		,																		*al	1	2	2	1	2	2	2
Desc 20S 10E 35 SW	1312 Foster Road Deschutes	11-1g	FS																														0?
Desc 21S 07E 01 SE	325 Crane Pr Res W	11-1e	FS	Α?	A?	2,ND	N,0?			*oF	oF	1	2	2	2	ND*oF	2	TD	Ν														
Desc 21S 07E 01 SW	353 Crane Pr Res W	11-1e	FS					1	2	ND	Ν																						
Desc 21S 07E 01 SE	400 Crane Pr Res W	11-1e	FS															*2	2	ND	Ν												
Desc 21S 07E 01 SW	416 Crane Pr Res W	11-1e	FS																	*2	2	2	2	2	2	1	F	oF	oF	1	F	al	NL
Desc 21S 07E 01 SE	1105 Crane Pr Res W	11-1e	FS																									-	al	ND	N	1	
Desc 21S 07E 01 SE	1216 Crane Pr Res W	11-1e	FS																													1	1
Desc 20S 07E 35 SW	326 Lemish Butte	11-1e	FS	U	U	-	ND,U	N	02		02		02		02	0.2	02																
Desc 20S 07E 35 S1/2 Desc 21S 07E 01 NW	351 Lemish Butte 407 Quinn R	11-1e 11-1e	FS FS					U	0?	NL	0?	NL	0?	NL	0?	0?	0?	NL oF	NL 1	NL oF	NL 2	NL oF	NL 1	NL 1	NL 1	NL 2	NL F	NL oF	NL	NL al	NL oF	NL oF	NL F
Desc 20S 07E 36 SW	1035 Quinn R	11-1e	FS															01		01	2	01				2		01	2	oF	al	NL	NL
Desc 21S 08E 03 NW	634 Wuksi Butte	11-1e	FS																		-	1	1	1	al	al	al	al	al	al/s	NL	NL	NL
Desc 21S 08E 04 NE	668 Wuksi Butte	11-1e	FS																			•	*al	al	1	1	1	2	2	2	2	1	2
Desc 21S 08E 05 SE	315 Crane Pr Res E	11-1e	FS	N																													
Desc 21S 08E 05 NE	316 Crane Pr Res E	11-1e	FS		F	-	U	U	al	al	al	al	NL	NL	NL	NL	NL	Ν															
Desc 21S 08E 04 SW	362 Crane Pr Res E	11-1e	FS						F	oF	oF	0?	al	al	al	al	al	CG	al	2	1	al	al	al	al	al	NL	ND	Ν	*1	1	2	oF
Desc 21S 08E 05 W1/2	383 Crane Pr Res E	11-1e	FS										F	oF	oF	oF	oF	1	2	al	al	2	F	oF	oF	al	al	al	al	al	al	al	al
Desc 21S 08E 04 NW	794 Crane Pr Res E	11-1e	FS																						al	2	2	oF	al	al	al	al	al
Desc 21S 08E 04 NW	1032 Crane Pr Res E	11-1e	FS																										2	al	al	al	al
Desc 21S 08E 08 SW	313 Crane Pr Res S	11-1e	FS	al 2	U	al	al - F	NL	NL	NL	NL	NL	ND	N	-	TD						*oF	0?	2	1	F	2	oF	F	1	2	F/c	al
Desc 21S 08E 08 SW Desc 21S 08E 08 SW	314 Crane Pr Res S 394 Crane Pr Res S	11-1e 11-1e	FS FS	2	U	2	oF	F	2	F/s	F	2	oF	oF	F	TD *2	N 1d	1	2	2	ND	N											
Desc 215 08E 08 SW Desc 21S 08E 08 SW	964 Crane Pr Res S	11-1e 11-1e	FS													~2	Id		2	2	ND	N						*al	al	al	al	al	1
Desc 21S 08E 07 SW	419 Crane Pr Res SW	11-1e	FS																		*2	al	al	al	1	al	al	al	2	al	al	al	al
Desc 21S 08E 07 SE	743 Crane Pr Res SW	11-1e	FS																		-	*oF	oF	1	al	al	al	al	al	al	al	NL	NL
Desc 21S 08E 07 SE	916 Crane Pr Res SW	11-1e	FS																				-			2	1	F	al	al	al	al	al
Desc 21S 08E 07 SE	1080 Crane Pr Res SW	11-1e	FS																											F	1	2	F
Desc 21S 08E 20 SE	312 Browns Mt	11-1d	FS	U	2	0?	U	2	1	F	U	F	2d	1d	2	1	2	2	F	1	2	2	2	1	2	1	2	F	oF	F	oF	oF	F
Desc 21S 08E 29 SE	996 Browns Crossing	11-1d	FS																									-	F	F	oF	oF	U
Desc 21S 08E 32 NE	324 Browns Cr	11-1d	FS	3	1	2	2	U	oF	oF	1	2	oF	2d	1	2	F	2	al	al	al	al	2	1	2	F	2	2	NL	2	1	F	1
Desc 21S 08E 32 NE	413 Browns Cr	11-1d	FS																1	oF	F	F	al	al	al	al	NL	NL	2,ND	Ν		al	NL
Desc 21S 08E 34 SW	318 Wickiup Res N	11-1d	FS			-1	-1	-1	-			. 5		1.4	-		-	TD 02															
Desc 21S 08E 34 SE Desc 21S 08E 34 SE	319 Wickiup Res N	11-1d 11-1d	FS	U	U	al al	al al	al al	F	1 al	1 al	oF	oF al	1d al	F al	oF al	F	TD,O? TD	N N														
Desc 21S 08E 34 SE Desc 21S 08E 34 SE	342 Wickiup Res N 345 Wickiup Res N	11-1d 11-1d	FS			al O?	al 1	al 1	al al	TD	N N																						
Desc 215 08E 34 SE Desc 21S 08E 34 SE	378 Wicklup Res N	11-1d 11-1d	FS			01		1	di	di	di	al	al	al	al	al	al	TD	N														
Desc 215 08E 34 SE	411 Wicklup Res N	11-1d	FS									aı	aı	aı	aı	aı	aı	10	*F	oF	2	oF	1	oF	1	oF	1	2	F	2	oF	oF	oF
Desc 215 08E 34 SE	1222 Wicklup Res N	11-1d	FS																	01	-	01		0		01		-		-	0	al	al
Desc 21S 09E 13 NE	395 Tetherow Meadow	11-1g	FS													oF	oF	1	1	1	1	al	al	TD	Ν								
Desc 21S 09E 13 SE	622 Tetherow Meadow	11-1g	FS																			*1	2	F	oF	1	1	1	1	F	F	1	1
Desc 21S 09E 19 SW	1141 Pringle Falls Junction	11-1d	FS																												F	F	U
Desc 21S 09E 34 NE	405 Deschutes R Oxbow	11-1g	FS															1/b	U/t	1	1	oF	F	al	NL	NL	NL	ND	Ν				
Desc 21S 09E 34 NW	723 Deschutes R Oxbow	11-1g	FS																					1	1	oF	1	2	F	1	1	1	2
Desc 21S 13E 19 SE	337 East L	11-1h	FS	U	-	0?	1	U	al	al	al	al	al	2d	F	F	al	al	al	F	F	oF	1	1	1	oF	oF	2	oF	oF	oF	1	oF
Desc 21S 13E 19 SW	364 East L	11-1h	FS						1	2d	oF	F	2	al	al	al	2	oF	oF	al	al	al	al	al	al	al	al	al	al	al	al	NL	NL
Desc 21S 13E 19 SW	376 East L	11-1h	FS								*al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	NL	NL
Desc 21S 12E 23 SE	1167 Paulina L	11-1h	FS FS																												*al	al	al
Deee 210 120 25 MM/																																	
Desc 21S 12E 25 NW Desc 22S 07E 26 S1/2	1240 Paulina L 331 Davis L NW	11-1h 11-1c	FS		-	al/s	1	oF	al	TD	Ν																					ai	

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05
--

OREGON NESTS: Some may be listed in the Washington section if the breeding territory includes nests in both states.

OREGON NESTS. Some may be in	sted in the washington section in the	breeding territor	y includes	S HESIS III DI	our state	5.																										
Desc 22S 07E 34 SW	332 Davis L W	11-1c	FS		*2	al	RT	al	al	al	al	al	al	al	al	al	al	oF	NL	NL	NL	NL	Ν									
Desc 22S 07E 26 S1/2	360 Davis L NW	11-1c	FS					F	F	F	1	oF	al	al	1	F	F	ND	Ν													
Desc 22S 07E 26 S1/2 Desc 22S 07E 26 SW	414 Davis L NW 1208 Davis L NW	11-1c 11-1c	FS FS																*1,ND	*oF	oF	1	oF	2	F	oF	F	1	oF	1/n	ND/s *oF	N 2
Desc 22S 07E 34 SW	381 Davis L W	11-10	FS	_								al	1	1	al	al	RT	RT	al	RT?	al	RT	RT	al	al	al	al	al	1	1	-0F	1
Desc 22S 08E 07 NE	321 Davis Cr	11-1d	FS	1	- 2	2	al	al	al	al	al	al	al	al	F	2	1	2	1	1	2	2	TD,F	N	ci.	c.	u.	Ci.	· ·	· · ·		
Desc 22S 08E 06 SE	322 Davis Cr	11-1d	FS	А	? al	al	1	2	2d	1	1d	oF	oF	oF	al	al	al	al	al	al	al	al	aĺ	al	NL	NL						
Desc 22S 08E 06 SE	323 Davis Cr	11-1d	FS	á	al al	al	al	al	al	al	al	al	al	al	al	al	ND	Ν														
Desc 22S 08E 06 SE Desc 22S 08E 07 NE	361 Davis Cr 772 Davis Cr	11-1d 11-1d	FS FS					al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al *oF	NL	NL 2	NL 1	NL oF	NL	NL 2	NL 2	NL 2
Desc 225 08E 23 NE	336 Wickiup Res S	11-1d	FS			al	al	al	al	al	al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Desc 22S 08E 23 NE	343 Wickiup Res S	11-1d	FS			oF	al	al	al	al	al	al	al	al	al	NL	NL	NL	NL	N						NL.			NL.			NL.
Desc 22S 08E 23 NE	355 Wickiup Res S	11-1d	FS			al	1	2	oF	oF	al	al	al	al	al	NL	NL	NL	NL	Ν												
Desc 22S 08E 23 NW	372 Wickiup Res S	11-1d	FS							al	2	1	F	1	F	2	1	1	F	oF	F	oF	al	al	al	al	al	al	al	al	al	NL
Desc 22S 08E 15 SW	373 Wickiup Res W	11-1d	FS							al	al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Desc 22S 08E 15 SE Desc 22S 08E 23 NW	401 Wickiup Res W 691 Wickiup Res S	11-1d 11-1d	FS FS														*al	al	al	al	al	al al	al F	al 1	ai 2	al oF	al oF	al oF	al oF	al oF	al 2	NL 2
Desc 22S 08E 25 NE	320 Round Swamp	11-1d	FS	υı	J -	U	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	NL.	NL	CD/n	N	
Desc 22S 08E 25 NE	344 Round Swamp	11-1d	FS			U	F	0?	oF	1	1	F	1d	al	1	1	F	al	al	al	al	al	al	al	al	al	al	al	2	2,ND/n*		1
Desc 22S 08E 25 NE	388 Round Swamp	11-1d	FS											F	al	al	al	al	al	al	al	al	al	al	al	al	al	NL	NL	ND/n	N/s	
Desc 22S 08E 24 SE	408 Round Swamp	11-1d	FS														*al	F/u	2	F	F	oF	oF	oF	1	2	oF	F	RT	al	NL	NL
Desc 22S 09E 04 SW Desc 22S 09E 04 NE	356 Wickiup Res E 380 Wickiup Res E	11-1g 11-1g	FS FS				2	2	F	F	al 2	al oF	al F	al 1	al F	al oF	ND 2	N F	al	RT	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL
Desc 225 09E 06 SW	397 Wicklup Dam	11-1g	FS								-	0				*al	al	al	al	NL	ND	N	cii						THE	146		
Desc 22S 09E 04 NE	403 Wickiup Res E	11-1g	FS														*al	al	al	ND	N											
Desc 22S 09E 06 SE	412 Wickiup Dam	11-1d	FS															al	1	1	F	2	2	2	2	1	2	1	oF	1	1	F
Desc 22S 09E 07 SE	1289 Wickiup Butte	11-1d	FS						-								011 5		011.00	-	-	-							<u> </u>		<u> </u>	*oF
Desc 22S 09E 20 SW Desc 22S 09E 20 SW	370 Eaton Butte 371 Eaton Butte	11-1d 11-1d	FS FS					0?	oF al	U U	UU	O? al	U U	U U	oF al	GH oF	GH,oF ND	UN	GH,0?	oF	oF	oF	al	al	al	al	al	al	al	ai	al	NL
Desc 225 09E 20 SW	374 Eaton Butte	11-1d	FS						ai	U	U	al	NL	NL	NL	NL	N	IN														
Desc 22S 09E 20 NE	724 Eaton Butte	11-1d	FS																				oF	oF	al	al	al	al	al	al	NL	NL
Desc 22S 09E 20 NE	923 Eaton Butte	11-1d	FS																						1	1	2	2	2	1	1	F
Doug 20S 10W 36 NE	182 Doe Cr	13-3b	PV				0?	oF	U	0?	al	oF	F	al	al	al	al	al	al	NL	NL	Ν										
Doug 20S 09W 31 SW Doug 20S 09W 31 SW	208 Doe Cr 202 Doe Cr	13-3b 13-3b	BLM BL M								1	ND al	N al	1	1	al	al	al	2	F	al	al	al	al	al	al	NL	NL	NL	NL	NL	NL
Doug 20S 09W 31 S1/2	258 Doe Cr	13-3b	BLM									a	ai			1	oF	oF	al	al	2	2	oF	2	1	2	2	2	1	2	1	2
Doug 20S 11W 31 SE	159 Joyce Cr	13-2	PV		1	2	1	3	1d	1	2	F	F	2	F	U	U	U	U	U	U	U	U	2	2	ND,0?	Ν					
Doug 20S 11W 31 SE	160 Joyce Cr	13-2	PV		al	al	al	al	al	al	al	al	al	al	al	U	NL	Ν														
Doug 20S 11W 31 SE Doug 20S 11W 32 SW	161 Joyce Cr	13-2 13-2	PV PV		al	al	al	al	al	al	al	al	NL	NL	NL	NL	NL	N									2d	ND	N			
Doug 20S 11W 32 SW Doug 20S 11W 30 SW	960 Joyce Cr 1029 Leitel Cr	13-2	PV																								Zu	1	2	2	oF	2d
Doug 20S 11W 35 SE	240 Lower Smith R	13-3b	FS												1	oF	2	oF	2	al	2	1	1	2	1	1	1	oF	1	2	2	2
Doug 21S 11W 02 SW	284 Lower Smith R	13-3b	PV																	F	al	al	al	al	NL	ND	Ν					
Doug 20S 12W 12 SW	158 Lane Cr	13-2	PV	A? '	1 1	1	1	F	1	1	1	1	1	oF	1	oF	F	1	1	F	1	F	al	ND	N	_	_	_	_		_	
Doug 20S 12W 12 SW Doug 20S 12W 11 SE	705 Lane Cr 1233 Lane Cr	13-2 13-2	PV PV																				*2	F	F	F	oF	2	oF	1	oF *al	1 al
Doug 20S 12W 32 NW	993 Tahkenitch Cr Mouth	13-2	FS																								-	oF	al	al	1	NL
Doug 20S 12W 32 NW	1091 Tahkenitch Cr Mouth	13-2	FS																										1	1	NL	NL
Doug 20S 12W 32 NW	1271 Tahkenitch Cr Mouth	13-2	FS																													2
Doug 21S 11W 31 SW Doug 21S 11W 31 SW	236 Butler Cr 1061 Butler Cr	13-3a 13-3a	BLM BL M												*oF	1	oF	oF	2	2	1	1	1	1	oF	oF	2	2	TD *2	N 1	F	2
Doug 21S 11W 31 SW	201 Umpqua R	13-3a	FS								-	al/s	al	al	al	al	TD	N											2			<u> </u>
Doug 21S 11W 33 SW	203 Umpqua R	13-3a	FS									1	1d	F	F	oF	0?	1	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Doug 21S 11W 34 NW	272 Umpqua R	13-3a	FS															-	oF	oF	1	oF	1	1	1	F	oF	1	1	F	oF	al
Doug 21S 11W 34 SE	1236 Umpqua R	13-3a	FS																					-	-						al	2
Doug 21S 11W 35 SE Doug 22S 10W 08 SW	704 Echo Is 913 Indian Charlie	13-3a 13-3a	FS ODF																				1	oF	oF	al 1	al 2	al 1	al 1	al 2	NL oF	N oF
Doug 21S 12W 21 SW	162 Cutoff Point	13-3a	PV		oF	oF	F	oF	oF	1	2	2	2	1	2	1	2	2	F	1	F	oF	oF	1	1	1	al	al	TD	N		
Doug 21S 12W 21 SW	959 Cutoff Point	13-3a	PV																								*1	oF	TD,oF	N		
Doug 21S 12W 21 SW	1092 Cutoff Point	13-3a	PV																										*al	1	2	oF
Doug 21S 12W 16 NW	1186 Umpqua Bight	13-3a	PV																*oF	F	oF	al	el	al	al	al	NI	NI	ND	N	oF	2
Doug 21S 12W 25 NE Doug 21S 12W 24 SW	273 East Gardiner 678 East Gardiner	13-3b 13-3b	FS FS																~0F	۲	OF	al 1	al 1	al oF	al oF	al al	NL NL	NL NL	ND al	N oF	oF	al
Doug 21S 12W 25 NE	886 East Gardiner	13-3b	FS																					01	0	1	F	1	TD,oF	N	0	a
Doug 21S 12W 25 N1/2	1306 East Gardiner	13-3b	FS																													1
Doug 22S 08W 27 NE	228 Gould Cr	13-3a	BLM											oF	U	U	U	oF	oF	oF	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Doug 22S 08W 20 SW	229 Gould Cr (X)	13-3a	PV											al	OS	ND	OS	al	al	al al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Doug 22S 08W 17 NE Doug 22S 08W 27 NW	266 Gould Cr 626 Gould Cr	13-3a 13-3a	BLM BL M															al/f	al	al	NL 2	NL 1	NL 2	NL 1	NL oF	NL 2	NL 1	NL 1	NL 2	NL 2	NL 2	NL 1
Doug 225 09W 16 SW	163 Scottsburg	13-3a	PV	U ·		2	1	1	1	1	F	al	al	al	al	al	1	1	2	oF	al	F	F	oF	al	al						
Doug 22S 09W 16 SE	206 Scottsburg	13-3a	PV	-		-						1	al	CD	N				-												-	

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05
--

OREGON NESTS: Some may be listed in the Washington section if the breeding territory includes nests in both states.

Doug 22S 09W 16 SW	219 Scottsburg	13-3a	PV										2	1d	1	F	ND	N												TD	N	
Doug 225 09W 16 SW Doug 22S 09W 14 SW	604 Weatherly Cr	13-3a 13-3a	PV										2	Tu		г	ND	IN			1	al	al	al	1	F	c	F	TD,oF	N	IN	
Doug 22S 09W 23 NW	1143 Weatherly Cr	13-3a	BLM																			a	ai	a					10,01	F	2	oF
Doug 22S 09W 23 NW	1297 Weatherly Cr	13-3a	BLM																												-	*al
Doug 22S 09W 17 NW	1268 Greenacres	13-3a	BLM																													2
Doug 22S 10W 23 NW	827 West Scottsburg	13-3a	ODF																					-	1	2	2	2	2	U	ND	N
Doug 22S 10W 27 NE	1238 Footlog Cr	13-3a	ODF																												2	1
Doug 22S 12W 06 SE	212 Winchester Bay	13-3a	PV									2	2	1	2	F	al	F	F	2	2	2	2	2	2	F	oF	F	TD,oF	N		
Doug 22S 12W 06 E1/2	252 Winchester Bay	13-3a	PV														1	al	al	al	al	al	al	al	al	al	al	al	ND	N		
Doug 22S 12W 06 SE	1093 Winchester Bay	13-3a	PV																										*al	al	NL 1	NL
Doug 22S 12W 06 NE Doug 23S 07W 15 NE	1137 Winchester Bay 171 Brads Cr	13-3a 13-3a	PV BLM			2	al	al	al	al	al	NL	NL	N																F		1
Doug 23S 07W 15 NE Doug 23S 07W 15 NE	181 Brads Cr	13-3a	BLM			2	ai 1	ai 1	ai 1d	ai 1	ND	N	INL	IN	*3	2	oF	al	al	al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL
Doug 23S 07W 15 NE	197 Brads Cr	13-3a	BLM				'	'	Tu	'	1	oF	oF	oF	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Doug 23S 07W 15 NE	265 Brads Cr	13-3a	BLM									01	01	01	142		HLL.	1	2	1	F	oF	oF	oF	oF	2	2	oF	1	oF	F	2
Doug 23S 07W 23 W1/2	216 Martin Cr	13-3a	BLM										1/f	F	al	al	al	al	al	CG	al	al	al	al	ND	N						
Doug 23S 07W 23 W1/2	237 Martin Cr	13-3a	BLM												*1	al	al	al	al	al	al	al	al	al	al	al	al	NL	NL	NL	NL	NL
Doug 23S 07W 23 NW	243 Martin Cr	13-3a	BLM													*2	2	2	2	2	2	F	2	2	al	al	NL	2	2	2	2	F
Doug 23S 07W 23 NW	677 Martin Cr	13-3a	BLM																			*al	al	al	1	2	1	al	al	al	al	NL
Doug 23S 07W 27 SE	1291 Martin Cr	13-3a	BLM																													*al
Doug 23S 07W 33 SW Doug 23S 07W 33 SW	849 McGee Cr 980 McGee Cr	13-3a 13-3a	BLM BLM																					-	2	2	al	al	al	2	1 al	2 NL
	205 Heddin Cr	13-3a	PV									oF	0?	oF	oF	al	al	al	al	al	al	al	al	al	al	ND	Z N			ai	al	NL
Doug 23S 08W 02 SW Doug 23S 08W 14 SE	203 Heddin Cr 224 Mehl Cr (X)	13-3a	BLM									OF	01	al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	ND	Ν				
Doug 23S 07W 07 SW	242 Mehl Cr	13-3a	PV											ai	-	oF	oF	oF	oF	oF	al	al	al	NL	NL	ND	N	IN I				
Doug 23S 07W 07 SE	603 Mehl Cr	13-3a	BLM													01	01	01	01	01	oF	oF	oF	oF	oF	al	al	NL	ND	N		
Doug 23S 08W 03 NE	888 Heddin Cr	13-3a	BLM																							2	1	2	2	al	al	NL
Doug 23S 08W 03 NE	1142 Heddin Cr	13-3a	BLM																											2	2	oF
Doug 23S 10W 01 NW	241 Camp Mill	13-3a	BLM												U	U	U	U	U	U	NS	U	-	U	U	U	U	U	ND,U	N		
Doug 23S 10W 02 SE	1062 Loon L	13-3a	ODF																										2/L	1	F	al
Doug 23S 10W 01 W1/2	1275 Sock Cr	13-3a	BLM																	-												2
Doug 24S 07W 21 SE Doug 24S 07W 21 SE	238 Lost Cr 644 Lost Cr	13-3a 13-3a	BLM BLM												2	F	2	1	1	1	2	al *F	al oF	al 1	ND 2	N		2	2	2	oF	2
	887 Indian Bend	13-3a 13-3a	PV																			"F	OF	- 1	2	2 *al	al		oF	al	al	2
Doug 24S 07W 29 SE	887 Indian Bend																															al
Doug 255.07W.05 NE																												F				
Doug 25S 07W 05 NE Doug 24S 07W 31 NW	891 Powell Cr	13-3a	BLM BL M																							oF	F	al	al	al 2	al 2	al 2
Doug 24S 07W 31 NW	891 Powell Cr 1135 Tyee	13-3a 13-3a	BLM BLM								2	2	ND	N																		
	891 Powell Cr	13-3a	BLM								2	2	ND 2	N 2	2	U	ND	N														
Doug 24S 07W 31 NW Doug 25S 04W 25 SW	891 Powell Cr 1135 Tyee 196 Huntley Cr	13-3a 13-3a 13-3c	BLM BLM BLM								2	2			2	U	ND F	N F	al	al	U	2/L?	2	F	1							
Doug 24S 07W 31 NW Doug 25S 04W 25 SW Doug 25S 04W 26 SE Doug 25S 04W 25 SW Doug 25S 04W 25 SW Doug 25S 04W 25 SW	891 Powell Cr 1135 Tyee 196 Huntley Cr 221 Huntley Cr 253 Huntley Cr 271 Huntley Cr	13-3a <u>13-3a</u> 13-3c 13-3c 13-3c 13-3c 13-3c	BLM BLM BLM BLM BLM								2	2			2	U			al *2	al 2	U U	2/L? al	2 al	F al	1 al	oF						al 2 2 al
Doug 24S 07W 31 NW Doug 2SS 04W 25 SW Doug 2SS 04W 26 SE Doug 2SS 04W 25 SW	891 Powell Cr 1135 Tyee 196 Huntley Cr 221 Huntley Cr 253 Huntley Cr 271 Huntley Cr 1266 Bottle Cr	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3a	BLM BLM BLM BLM BLM BLM								2		2		2		F	F	*2	2	Ũ	al	al	F al	1 al	oF 2 al	F al 2	al al 2	al al 2	al 2 al 1	al 2 F al	al 2 2 al 2
Doug 24S 07W 31 NW Doug 25S 04W 25 SW Doug 25S 07W 15 SE Doug 25S 07W 09 SW	891 Powell Cr 1135 Tyee 196 Huntley Cr 221 Huntley Cr 253 Huntley Cr 271 Huntley Cr 1266 Bottle Cr 172 Golden Bar	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3a 13-3a	BLM BLM BLM BLM BLM BLM BLM		- U	oF	F	al	al	al	al	al	2 al	2 al	al	al	F	F	*2 al	2 al	U	al al	al al	F al NL	1 al NL	oF					al 2 F	al 2 2 al
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 04W 25 W1/2 Doug 255 04W 25 SW Doug 255 04W 25 W1/2 Doug 255 07W 15 SE Doug 255 07W 07 SW Doug 255 07W 07 SW	891 Powell Cr 1135 Tyee 196 Huntley Cr 221 Huntley Cr 253 Huntley Cr 271 Huntley Cr 176 Bottle Cr 172 Golden Bar 185 Cougar Cr	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a	BLM BLM BLM BLM BLM BLM BLM BLM	-	- U	oF	F	al 1 d	al 2	al F	2 al 1		2	2 al al	al al	al al	F al al	F al al	*2 al al	2 al al	U al NL	al al NL	al al ND	Ν	1 al NL	oF 2 al	F al 2	al al 2	al al 2	al 2 al 1	al 2 F al	al 2 2 al 2
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 26 SE Doug 255 04W 25 SW Doug 255 07W 07 SW	891 Powell Cr 1135 Tysee 196 Huntley Cr 221 Huntley Cr 253 Huntley Cr 271 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a	BLM BLM BLM BLM BLM BLM BLM BLM	-	- U	oF	F				al	al	2 al	2 al	al	al	F	F	*2 al	2 al	U	al al	al Al ND ND	N N		oF 2 al NL	F al 2 NL	al al 2 NL	al al 2 NL	al 2 al 1 NL	al 2 F al NL	al 2 al 2 NL
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 26 SE Doug 255 04W 25 SW Doug 255 04W 25 W1/2 Doug 255 07W 15 SE Doug 255 07W 07 SW Doug 255 07W 12 SW	891 Powell Cr 1135 Tyee 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 2371 Huntley Cr 271 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a	BLM BLM BLM BLM BLM BLM BLM BLM	-	- U	oF	F				al	al	2 al	2 al al	al al	al al	F al al	F al al	*2 al al	2 al al	U al NL	al al NL	al al ND	Ν	1 al NL oF	oF 2 al	F al 2	al al 2	al al 2	al 2 al 1	al 2 F al	al 2 2 al 2
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 26 SE Doug 255 04W 25 SW Doug 255 07W 07 SF Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 08W 12 SW	891 Powell Cr 1135 Tysee 196 Huntley Cr 221 Huntley Cr 253 Huntley Cr 271 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a	BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM	-	- U	oF	F				al	al	2 al	2 al al	al al	al al	F al al	F al al	*2 al al	2 al al	U al NL	al al NL	al ND ND 1	N N		oF 2 al NL	F al 2 NL	al al 2 NL	al al 2 NL	al 2 al 1 NL 2	al 2 F al NL al	al 2 al 2 NL
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 26 SE Doug 255 04W 25 SW Doug 255 07W 07 SF Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 08W 12 SW	891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 235 Huntley Cr 2166 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 1175 Cougar Cr 232 Woodruff Mt 251 Woodruff Mt	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a	BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM	-	- U	oF	F				al	al	2 al	2 al al	al al 2	al al F	F al al 2	F al al 2	*2 al al oF	al al F	al NL 2	al NL 1	al ND ND 1	N N		oF 2 al NL	F al 2 NL	al al 2 NL	al al 2 NL	al 2 al 1 NL 2 *al	al 2 F al NL al oF	al 2 al 2 NL
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 26 SE Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 265 06W 07 SW Doug 265 06W 18 NW	891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 2371 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 221 Cougar Cr 721 Cougar Cr 721 Cougar Cr 232 Woodruff Mt 251 Woodruff Mt	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a	BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM	-	- U	oF	F				al	al	2 al	2 al al	al al 2	al al F	F al al 2 al	F al al 2 al	*2 al al oF al	al al F al	al NL 2 al	al NL 1 ND	al ND ND 1	N N 1	oF	oF 2 al NL oF	F al 2 NL 2 al 2	al al NL 2 NL 1	al 2 NL F NL 1	al 2 1 NL 2 *al	al 2 F al NL al oF NL 3	al 2 al 2 NL NL 1 NL 1
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 26 SE Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 07W 15 SE Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 06W 07 SW Doug 265 06W 08 NW	891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 271 Huntley Cr 271 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 21 Cougar Cr 1175 Cougar Cr 232 Woodruff Mt 251 Woodruff Mt 923 Melrose	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a	BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM	-	- U	oF	F				al	al	2 al	2 al al	al al 2	al al F	F al al 2 al	F al al 2 al	*2 al al oF al	al al F al	al NL 2 al	al NL 1 ND	al ND ND 1	N N 1	oF	oF 2 al NL oF	F al 2 NL 2 al	al 2 NL 2	al 2 NL F	al 2 al 1 NL 2 *al	al 2 F al NL al oF NL 3 A?	al 2 al 2 NL NL 1 NL 1 oF
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 26 SE Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 08W 12 SW Doug 255 06W 07 SW Doug 255 06W 07 SW Doug 255 06W 07 SW Doug 265 06W 08 NW Doug 275 06W 08 NW	891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 235 Huntley Cr 236 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 232 Woodruff Mt 232 Woodruff Mt 924 Woodruff Mt 933 Melrose 1237 Melrose	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a	BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM	-	- U	oF	F				al	al	2 al	2 al al	al al 2	al al F	F al al 2 al	F al al 2 al	*2 al al oF al	al al F al	al NL 2 al	al NL 1 ND	al ND ND 1	N N 1	oF	oF 2 al NL oF F	F al 2 NL 2 al 2	al al NL 2 NL 1	al 2 NL F NL 1	al 2 al 1 NL 2 *al	al 2 F al NL al oF NL 3 A? al	al 2 al 2 NL NL 1 NL 1
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 08W 12 SW Doug 255 08W 12 SW Doug 265 06W 07 SW Doug 265 06W 07 SW Doug 265 06W 07 SW Doug 275 06W 08 NW Doug 275 06W 08 NW Doug 265 03E 36 K	891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 2371 Huntley Cr 271 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 232 Woodruff Mt 251 Woodruff Mt 933 Melrose 914 Toketee L	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a	BLM BLM BLM BLM BLM BLM BLM BLM BLM PV? BLM BLM PV? PV PV FS	-	- U		F			F	al 1	al F	2 al oF	2 al al 1d	al al 2 1/f	al al F oF	F al al 2 al 2	F al al 2 al 1	*2 al al oF al 1	al al F al 2	al NL 2 al oF	al NL 1 ND 1	al ND ND 1 N 2	N N 1	oF oF/L	oF 2 al NL oF F	F al 2 NL 2 al 2 2 F	al al 2 NL 2 NL 1 2 1	al al 2 NL F NL 1 F F	al 2 al 1 NL 2 *al NL 2 1 2	al 2 F al NL al oF NL 3 A? al oF	al 2 al 2 NL 1 NL 1 0F NL 1 0F NL 1
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 26 SE Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 07W 07 SW Doug 265 06W 08 NW Doug 265 05E 12 SE	891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 237 Huntley Cr 231 Huntley Cr 232 Folder Bar 185 Cougar Cr 232 Cougar Cr 232 Cougar Cr 232 Woodruff Mt 251 Woodruff Mt 234 Woodruff Mt 237 Melrose 1237 Melrose 1237 Lemolo L	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a	BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM	-	- U	oF	1	10	2 F		al	al F al	2 al	2 al al 1d	al al 2	al al F oF	F al al 2 al 2 al	F al al 2 al 1	*2 al al oF al 1	al al F al 2 al 2	al NL 2 al oF	al al NL 1 ND 1 al	al ND ND 1 N 2 al	N N 1 oF	oF oF/L NL	oF 2 al NL oF F F	F al 2 NL 2 al 2 2 F NL	al 2 NL 2 NL 1 2 1 2 1 NL	al al NL F NL 1 F F NL	al 2 1 NL 2 *al NL 2 1 2 NL 2 NL	al 2 F al NL al oF NL 3 A? al al oF NL	al 2 al 2 NL NL NL 1 0F NL 1 NL
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 06W 12 SW Doug 255 06W 07 SW Doug 255 06W 07 SW Doug 255 06W 07 SW Doug 265 06W 08 NW Doug 265 06W 08 NW Doug 265 03E 105 SH ND Doug 265 03E 12 SE Doug 265 03E 12 SE Doug 265 03E 12 SW	891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 271 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 1725 Cougar Cr 232 Woodruff Mt 933 Melrose 1237 Melrose 914 Toketee L 347 Lemolo L	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3c 13-3c	BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM	-	- U 1		F 1 NL			F	al 1	al F	2 al oF	2 al al 1d	al al 2 1/f	al al F oF	F al al 2 al 2	F al al 2 al 1	*2 al al oF al 1	al al F al 2	al NL 2 al oF	al Al NL 1 ND 1 al oF	al ND ND 1 N 2 al 1	N N 1 oF al 1	oF oF/L NL 1	oF 2 al NL oF F F NL F	F al 2 NL 2 al 2 2 F NL 1	al 2 NL 2 NL 1 2 1 NL 2 1 NL 2	al 2 NL F NL F F F F NL F	al 2 NL 2 *al NL 2 1 1 2 NL 2 NL 2	al 2 F al NL al oF NL 3 A? al 0F NL 1	al 2 31 2 NL 1 NL 1 0 F NL 1 NL 1 NL 1 NL 1 1
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 26 SE Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 265 06W 07 SW Doug 265 06W 07 SW Doug 265 06W 08 NW Doug 275 06W 08 NW Doug 265 038 36 NE Doug 265 035 12 SE Doug 265 035 12 SE Doug 265 035 12 SE Doug 265 035 12 SW Doug 265 035 12 SW Doug 265 035 12 SW	891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 237 Huntley Cr 237 Huntley Cr 217 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 232 Woodruff Mt 251 Woodruff Mt 933 Melrose 1237 Melrose 1237 Melrose 1234 Lemolo L 648 Lemolo L	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3c 13-3c 13-3c	BLM BLM BLM BLM BLM BLM BLM BLM BLM PV7 PV PV FS FS FS FS	-	1	oF *al	1	1 d	2 F	F	al 1	al F al	2 al oF	2 al al 1d	al al 2 1/f	al al F oF	F al al 2 al 2 al 2	F al al 2 al 1 F	*2 al al oF al 1 2	al al F al 2 al 2 al 2	al NL 2 al oF al oF	al NL 1 ND 1 al oF *al	al ND ND 1 N 2 al 1 NL	N N 1 oF al 1 NL	oF oF/L NL 1 NL	oF 2 al NL oF F F NL F NL	F al 2 NL 2 al 2 2 F NL 1 NL	al al 2 NL 2 NL 1 2 1 2 1 2 1 2 NL	al al 2 NL F NL 1 F NL F NL	al 2 1 NL 2 *al 2 1 2 NL 2 NL	al 2 F al NL al oF NL 3 al oF NL 3 l OF NL 1 NL	al 2 al 2 NL NL 1 NL 1 NL 1 NL 1 NL 1 NL
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 26 SE Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 06W 18 NW Doug 275 06W 08 NW Doug 275 06W 08 NW Doug 265 05E 12 SW Doug 275 05E 36 SE	891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 271 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 1725 Cougar Cr 232 Woodruff Mt 933 Melrose 1237 Melrose 914 Toketee L 347 Lemolo L	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3c 13-3c	BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM	-	- U 1 0?	oF	1 NL	10	2 F NL	F al F	al 1 al 1	al F al oF	2 al oF al F	2 al al 1d al 2	al al 2 1/f	al al F oF al F	F al al 2 al 2 al	F al al 2 al 1	*2 al al oF al 1	al al F al 2 al 2	al NL 2 al oF	al Al NL 1 ND 1 al oF	al ND ND 1 N 2 al 1	N N 1 oF al 1	oF oF/L NL 1	oF 2 al NL oF F F NL F	F al 2 NL 2 al 2 2 F NL 1	al 2 NL 2 NL 1 2 1 NL 2 1 NL 2	al 2 NL F NL F F F F NL F	al 2 NL 2 *al NL 2 1 1 2 NL 2 NL 2	al 2 F al NL al oF NL 3 A? al 0F NL 1	al 2 31 2 NL 1 NL 1 0 F NL 1 NL 1 NL 1 NL 1 1
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 04W 26 SE Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 265 06W 07 SW Doug 265 06W 07 SW Doug 265 06W 08 NW Doug 275 06W 08 NW Doug 265 038 36 NE Doug 265 035 12 SE Doug 265 035 12 SE Doug 265 035 12 SE Doug 265 035 12 SW Doug 265 035 12 SW Doug 265 035 12 SW	891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 237 Huntley Cr 271 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 232 Woodruff Mt 933 Melrose 1237 Melrose 914 Toketee L 347 Lemolo L 688 Lemolo L 688 Lemolo L 340 Diamond L NW 350 Diamond L NW	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3c 13-3c 13-3c	BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM	-	1	oF *al	1 NL F	1d 1 NL al	2 F NL	F al F	al 1 al 1	al F al oF	2 al oF al F	2 al al 1d al 2	al al 2 1/f	al al F oF al F	F al al 2 al 2 al 2	F al al 2 al 1 F	*2 al al oF al 1 2	al al F al 2 al 2 al 2	al NL 2 al oF al oF	al NL 1 ND 1 al oF *al	al ND ND 1 N 2 al 1 NL	N N 1 oF al 1 NL	oF oF/L NL 1 NL	oF 2 al NL oF F F NL F NL	F al 2 NL 2 al 2 2 F NL 1 NL	al al 2 NL 2 NL 1 2 1 2 1 2 1 2 NL	al al 2 NL F NL 1 F NL F NL	al 2 1 NL 2 *al 2 1 2 NL 2 NL	al 2 F al NL al oF NL 3 al oF NL 3 l OF NL 1 NL	al 2 al 2 NL NL 1 NL 1 NL 1 NL 1 NL 1 NL
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 07W 07 SW Doug 265 06W 08 NW Doug 265 06W 18 NW Doug 265 05E 12 SE Doug 265 05E 12 SW Doug 275 05E 36 SE Doug 275 05E 36 SE	891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 238 Houtley Cr 240 Fooden Bar 185 Cougar Cr 225 Cougar Cr 2172 Goldruff Mt 251 Woodruff Mt 251 Woodruff Mt 933 Melrose 1237 Melrose 914 Toketee L 347 Lemolo L 348 Lemolo L 340 Diamond L NW	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3c	BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM	-	1	oF *al	1 NL F TD	1d 1 NL al N	2 F NL al	F al F al	al 1 al 1 al	al F al oF al	2 al oF al F al	2 al al 1d al 2	al al 2 1/f	al al F oF al al NL	F al al 2 al 2 al 2 al al al	F al al al 1 al F NL	al al oF al 1 al 2 NL	al al F al 2 al 2 NL NL NL	al NL 2 al oF al oF	al NL 1 ND 1 al oF *al NL	al ND ND 1 N 2 al 1 NL NL NL NL	N N 1 oF al 1 NL NL NL	oF oF/L NL NL NL NL NL	oF 2 al NL oF F F NL NL NL NL	F al 2 NL 2 al 2 2 F NL 1 NL NL	al al NL 2 NL 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL	al al 2 NL F NL 1 F F F NL F NL NL	al 2 31 1 2 *al 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL NL NL	al 2 F al NL al oF NL 3 3 A? al 0F NL 1 NL 1 NL	ai 2 3 3 NL NL 1 0 F NL 1 NL NL NL NL NL
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 06W 12 SW Doug 265 06W 07 SW Doug 265 06W 07 SW Doug 265 06W 08 NW Doug 265 05E 12 SE Doug 275 05E 36 NE Doug 275 05E 36 NE Doug 275 05E 36 NE Doug <td>891 Powell Cr 1135 Tyce 1135 Tyce 136 Huntley Cr 221 Huntley Cr 233 Huntley Cr 237 Huntley Cr 271 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 232 Woodruff Mt 924 Woodruff Mt 933 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1247 Lemolo L 348 Lemolo L 348 Lemolo L 348 Lemolo L 340 Diamond L NW 350 Diamond L NW 350 Diamond L NW 365 Diamond L NW 367</td> <td>13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c</td> <td>BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM</td> <td>-</td> <td>1</td> <td>oF *al</td> <td>1 NL F TD</td> <td>1 d NL al N</td> <td>2 F NL al</td> <td>F al F al al</td> <td>al 1 al 1 al al</td> <td>al F al oF al al</td> <td>2 al oF al F al al</td> <td>2 al al 1d al 2 al al al</td> <td>al al 2 1/f al F al al</td> <td>al al F oF al F al al al</td> <td>F al al 2 al 2 al 2 al al al al</td> <td>F al al 2 al 1 F NL</td> <td>al al oF al 1 al 2 NL NL</td> <td>al al F al 2 al 2 NL NL</td> <td>al NL 2 al oF al oF NL</td> <td>al al NL 1 ND 1 al oF *al NL NL</td> <td>al ND ND 1 N 2 al 1 NL NL</td> <td>N N 1 oF al 1 NL NL</td> <td>oF/L NL NL NL NL</td> <td>oF 2 al NL oF F NL F NL NL NL</td> <td>F al 2 NL 2 al 2 C F NL 1 NL NL NL</td> <td>al al NL 2 NL 1 1 NL NL NL NL</td> <td>al 2 NL F NL 1 F NL F NL NL NL</td> <td>al 2 NL 2 *al NL 2 1 2 NL 2 NL NL NL NL</td> <td>al 2 F al of NL 3 A? al of NL 1 NL 1 NL 1 NL</td> <td>ai 2 31 NL NL 1 NL 0F NL 1 NL 1 NL NL NL NL NL NL NL NL NL NL</td>	891 Powell Cr 1135 Tyce 1135 Tyce 136 Huntley Cr 221 Huntley Cr 233 Huntley Cr 237 Huntley Cr 271 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 232 Woodruff Mt 924 Woodruff Mt 933 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1247 Lemolo L 348 Lemolo L 348 Lemolo L 348 Lemolo L 340 Diamond L NW 350 Diamond L NW 350 Diamond L NW 365 Diamond L NW 367	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c	BLM BLM BLM BLM BLM BLM BLM BLM BLM BLM	-	1	oF *al	1 NL F TD	1 d NL al N	2 F NL al	F al F al al	al 1 al 1 al al	al F al oF al al	2 al oF al F al al	2 al al 1d al 2 al al al	al al 2 1/f al F al al	al al F oF al F al al al	F al al 2 al 2 al 2 al al al al	F al al 2 al 1 F NL	al al oF al 1 al 2 NL NL	al al F al 2 al 2 NL NL	al NL 2 al oF al oF NL	al al NL 1 ND 1 al oF *al NL NL	al ND ND 1 N 2 al 1 NL NL	N N 1 oF al 1 NL NL	oF/L NL NL NL NL	oF 2 al NL oF F NL F NL NL NL	F al 2 NL 2 al 2 C F NL 1 NL NL NL	al al NL 2 NL 1 1 NL NL NL NL	al 2 NL F NL 1 F NL F NL NL NL	al 2 NL 2 *al NL 2 1 2 NL 2 NL NL NL NL	al 2 F al of NL 3 A? al of NL 1 NL 1 NL 1 NL	ai 2 31 NL NL 1 NL 0F NL 1 NL 1 NL NL NL NL NL NL NL NL NL NL
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 06W 07 SW Doug 265 06W 08 NW Doug 265 06W 08 NW Doug 265 03E 14 SW Doug 265 03E 12 SW Doug 275 05E 36 SE Doug 275 05E 36 SE Doug 275 05E 36 SE Doug <td>891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 237 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 232 Woodruff Mt 251 Woodruff Mt 251 Woodruff Mt 251 Woodruff Mt 933 Melrose 1237 Melrose 1237 Lemolo L 340 Diamond L 340 Diamond L 350 Diamond L 365 Diamond L 365 Diamond L 310 Diamond L</td> <td>13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3a 13-3a 13-3c 13-3c 13-3c 13-3c</td> <td>BLM BLM BLM</td> <td>-</td> <td>1</td> <td>oF *al</td> <td>1 NL F TD</td> <td>1 d 1 d NL al al al</td> <td>2 F NL al al al</td> <td>F F al al al al al</td> <td>al 1 al al al al al</td> <td>al F al oF al al NL 1</td> <td>2 al oF al F al NL 1</td> <td>2 al al 1d al 2 al al nL 1</td> <td>al al 2 1/f al al al NL F</td> <td>al al F oF al al NL oF</td> <td>F al al 2 al 2 al al al NL al</td> <td>F al al 2 al 1 F NL NL F</td> <td>*2 al al oF al 1 al 2 NL NL NL 1</td> <td>al al F al 2 al 2 NL NL oF</td> <td>al NL 2 al oF al oF NL NL</td> <td>al NL 1 ND 1 al oF *al NL NL 1</td> <td>al ND ND 1 N 2 al 1 NL NL NL oF</td> <td>N N OF al 1 NL NL OF</td> <td>oF oF/L NL NL NL NL oF</td> <td>oF 2 al NL oF F F NL NL NL NL</td> <td>F al 2 NL 2 al 2 2 F NL 1 NL NL NL</td> <td>al al 2 NL 2 NL 1 2 NL 2 NL 2 NL NL NL NL</td> <td>al 2 NL F NL F NL F NL NL NL NL</td> <td>al 2 31 1 2 *al 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL NL NL</td> <td>al 2 F al NL al oF NL 3 A? al A? al 0F NL 1 NL NL NL</td> <td>ai 2 3 3 NL NL 1 0 F NL 1 NL NL NL NL NL</td>	891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 237 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 232 Woodruff Mt 251 Woodruff Mt 251 Woodruff Mt 251 Woodruff Mt 933 Melrose 1237 Melrose 1237 Lemolo L 340 Diamond L 340 Diamond L 350 Diamond L 365 Diamond L 365 Diamond L 310 Diamond L	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3a 13-3a 13-3c 13-3c	BLM	-	1	oF *al	1 NL F TD	1 d 1 d NL al al al	2 F NL al al al	F F al al al al al	al 1 al al al al al	al F al oF al al NL 1	2 al oF al F al NL 1	2 al al 1d al 2 al al nL 1	al al 2 1/f al al al NL F	al al F oF al al NL oF	F al al 2 al 2 al al al NL al	F al al 2 al 1 F NL NL F	*2 al al oF al 1 al 2 NL NL NL 1	al al F al 2 al 2 NL NL oF	al NL 2 al oF al oF NL NL	al NL 1 ND 1 al oF *al NL NL 1	al ND ND 1 N 2 al 1 NL NL NL oF	N N OF al 1 NL NL OF	oF oF/L NL NL NL NL oF	oF 2 al NL oF F F NL NL NL NL	F al 2 NL 2 al 2 2 F NL 1 NL NL NL	al al 2 NL 2 NL 1 2 NL 2 NL 2 NL NL NL NL	al 2 NL F NL F NL F NL NL NL NL	al 2 31 1 2 *al 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL NL NL	al 2 F al NL al oF NL 3 A? al A? al 0F NL 1 NL NL NL	ai 2 3 3 NL NL 1 0 F NL 1 NL NL NL NL NL
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 06W 12 SW Doug 255 06W 07 SW Doug 255 06W 07 SW Doug 255 06W 07 SW Doug 265 06W 08 NW Doug 265 06W 07 SW Doug 265 05E 12 SE Doug 265 05E 12 SE Doug 265 05E 12 SE Doug 275 05E 36 NE Doug 275 05E 36 SE Doug 275 05E 36 NE Doug <td>891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 2166 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 232 Woodruff Mt 933 Melrose 914 Toketee L 347 Lemolo L 688 Lemolo L 688 Lemolo L 340 Diamond L NW 350 Diamond L NW 357 Diamond L NW 365 Diamond L N 3610 Liamond L N</td> <td>13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3c 13-3c<!--</td--><td>BLM BLM BLM</td><td>-</td><td>1</td><td>oF *al</td><td>1 NL F TD</td><td>1 d NL al N</td><td>2 F NL al</td><td>F F al al al al</td><td>al 1 al 1 al al al</td><td>al F al oF al NL</td><td>2 al oF al R al NL</td><td>2 al al 1d 2 al al NL</td><td>al al 2 1/f al F al al NL</td><td>al al F oF al al NL</td><td>F al ai 2 al 2 al 2 al al nL</td><td>F al al 2 al 1 F NL NL NL</td><td>*2 al al oF al 1 al 2 NL NL NL</td><td>al al F al 2 al 2 NL NL NL</td><td>al NL 2 al oF al oF NL NL</td><td>al NL 1 ND 1 al oF *al NL NL</td><td>al ND ND 1 N 2 al 1 NL NL NL NL</td><td>N N OF al 1 NL NL NL NL OF ND</td><td>oF oF/L NL NL NL NL NL oF</td><td>oF 2 al NL oF F F NL NL NL NL oF</td><td>F al 2 2 2 8 1 NL 2 2 1 NL NL NL 1</td><td>al 2 NL 2 NL 1 2 NL 2 NL 2 NL 2 NL 2 NL 2</td><td>al al 2 NL F NL F NL NL NL 2</td><td>ai 2 1 NL 2 *ai 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2 N</td><td>al 2 F al NL al oF NL 3 al 0F NL 1 NL NL NL 1</td><td>ai 2 31 NL NL 1 0F NL 1 NL 1 NL NL NL NL NL NL NL NL NL NL NL NL ND 2</td></td>	891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 2166 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 232 Woodruff Mt 933 Melrose 914 Toketee L 347 Lemolo L 688 Lemolo L 688 Lemolo L 340 Diamond L NW 350 Diamond L NW 357 Diamond L NW 365 Diamond L N 3610 Liamond L N	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3c 13-3c </td <td>BLM BLM BLM</td> <td>-</td> <td>1</td> <td>oF *al</td> <td>1 NL F TD</td> <td>1 d NL al N</td> <td>2 F NL al</td> <td>F F al al al al</td> <td>al 1 al 1 al al al</td> <td>al F al oF al NL</td> <td>2 al oF al R al NL</td> <td>2 al al 1d 2 al al NL</td> <td>al al 2 1/f al F al al NL</td> <td>al al F oF al al NL</td> <td>F al ai 2 al 2 al 2 al al nL</td> <td>F al al 2 al 1 F NL NL NL</td> <td>*2 al al oF al 1 al 2 NL NL NL</td> <td>al al F al 2 al 2 NL NL NL</td> <td>al NL 2 al oF al oF NL NL</td> <td>al NL 1 ND 1 al oF *al NL NL</td> <td>al ND ND 1 N 2 al 1 NL NL NL NL</td> <td>N N OF al 1 NL NL NL NL OF ND</td> <td>oF oF/L NL NL NL NL NL oF</td> <td>oF 2 al NL oF F F NL NL NL NL oF</td> <td>F al 2 2 2 8 1 NL 2 2 1 NL NL NL 1</td> <td>al 2 NL 2 NL 1 2 NL 2 NL 2 NL 2 NL 2 NL 2</td> <td>al al 2 NL F NL F NL NL NL 2</td> <td>ai 2 1 NL 2 *ai 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2 N</td> <td>al 2 F al NL al oF NL 3 al 0F NL 1 NL NL NL 1</td> <td>ai 2 31 NL NL 1 0F NL 1 NL 1 NL NL NL NL NL NL NL NL NL NL NL NL ND 2</td>	BLM	-	1	oF *al	1 NL F TD	1 d NL al N	2 F NL al	F F al al al al	al 1 al 1 al al al	al F al oF al NL	2 al oF al R al NL	2 al al 1d 2 al al NL	al al 2 1/f al F al al NL	al al F oF al al NL	F al ai 2 al 2 al 2 al al nL	F al al 2 al 1 F NL NL NL	*2 al al oF al 1 al 2 NL NL NL	al al F al 2 al 2 NL NL NL	al NL 2 al oF al oF NL NL	al NL 1 ND 1 al oF *al NL NL	al ND ND 1 N 2 al 1 NL NL NL NL	N N OF al 1 NL NL NL NL OF ND	oF oF/L NL NL NL NL NL oF	oF 2 al NL oF F F NL NL NL NL oF	F al 2 2 2 8 1 NL 2 2 1 NL NL NL 1	al 2 NL 2 NL 1 2 NL 2 NL 2 NL 2 NL 2 NL 2	al al 2 NL F NL F NL NL NL 2	ai 2 1 NL 2 *ai 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2 N	al 2 F al NL al oF NL 3 al 0F NL 1 NL NL NL 1	ai 2 31 NL NL 1 0F NL 1 NL 1 NL NL NL NL NL NL NL NL NL NL NL NL ND 2
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 15 SE Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 265 06W 07 SW Doug 265 06W 07 SW Doug 265 06W 07 SW Doug 265 06W 08 NW Doug 265 05E 12 SE Doug 265 05E 12 SW Doug 275 05E 36 SE Doug 275 05E 36 SE Doug 275 05E 36 NE Doug 275 05E 36 NE Doug 275 06E 30 SE Doug 275 06E 30 SE Doug 275 06E 30 SE Doug <td>891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 2166 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 231 Woodruff Mt 923 Woodruff Mt 924 Woodruff Mt 923 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1347 Lemolo L 348 Lemolo L 347 Damond L 358 Diamond L 365 Diamond L 365 Diamond L 369 Diamond L 369 Diamond L</td> <td>13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3c 13-3c</td> <td>BLM BLM BLM BLM BLM</td> <td>-</td> <td>1</td> <td>oF *al</td> <td>1 NL F TD</td> <td>1 d 1 d NL al al al</td> <td>2 F NL al al al</td> <td>F F al al al al al</td> <td>al 1 al al al al al</td> <td>al F al oF al al NL 1</td> <td>2 al oF al F al NL 1</td> <td>2 al al 1d al 2 al al al NL 1</td> <td>al al 2 1/f al al Al R F</td> <td>al al F oF al al NL oF</td> <td>F al al 2 al 2 al al al NL al</td> <td>F al al 2 al 1 F NL NL F</td> <td>*2 al al oF al 1 2 NL NL NL 1</td> <td>al al F al 2 al 2 NL NL oF</td> <td>al NL 2 al oF al oF NL NL</td> <td>al NL 1 ND 1 al oF *al NL NL 1</td> <td>al ND ND 1 N 2 al 1 NL NL NL oF</td> <td>N N OF al 1 NL NL OF</td> <td>oF oF/L NL NL NL NL oF</td> <td>oF 2 al NL oF F F NL NL NL NL</td> <td>F al 2 NL 2 2 F NL 1 NL NL NL 1 NL</td> <td>al al NL 2 NL 1 2 NL NL NL NL NL NL</td> <td>al 2 NL F NL F NL F NL NL NL NL</td> <td>al 2 31 1 2 *al 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL NL NL</td> <td>al F al NL A? al OF NL NL NL NL NL NL NL</td> <td>ai 2 al 2 NL NL 1 0F NL 1 0F NL 1 NL NL NL NL NL NL NL NL 2 2</td>	891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 2166 Bottle Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 231 Woodruff Mt 923 Woodruff Mt 924 Woodruff Mt 923 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1237 Melrose 1347 Lemolo L 348 Lemolo L 347 Damond L 358 Diamond L 365 Diamond L 365 Diamond L 369 Diamond L 369 Diamond L	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3c	BLM BLM BLM	-	1	oF *al	1 NL F TD	1 d 1 d NL al al al	2 F NL al al al	F F al al al al al	al 1 al al al al al	al F al oF al al NL 1	2 al oF al F al NL 1	2 al al 1d al 2 al al al NL 1	al al 2 1/f al al Al R F	al al F oF al al NL oF	F al al 2 al 2 al al al NL al	F al al 2 al 1 F NL NL F	*2 al al oF al 1 2 NL NL NL 1	al al F al 2 al 2 NL NL oF	al NL 2 al oF al oF NL NL	al NL 1 ND 1 al oF *al NL NL 1	al ND ND 1 N 2 al 1 NL NL NL oF	N N OF al 1 NL NL OF	oF oF/L NL NL NL NL oF	oF 2 al NL oF F F NL NL NL NL	F al 2 NL 2 2 F NL 1 NL NL NL 1 NL	al al NL 2 NL 1 2 NL NL NL NL NL NL	al 2 NL F NL F NL F NL NL NL NL	al 2 31 1 2 *al 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL NL NL	al F al NL A? al OF NL NL NL NL NL NL NL	ai 2 al 2 NL NL 1 0F NL 1 0F NL 1 NL NL NL NL NL NL NL NL 2 2
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 06W 12 SW Doug 255 06W 12 SW Doug 255 06W 17 SW Doug 255 06W 07 SW Doug 255 06W 07 SW Doug 255 06W 08 NW Doug 255 06W 08 NW Doug 265 05E 12 SW Doug 265 05E 12 SW Doug 265 05E 12 SW Doug 275 05E 36 NE Doug 275 05E 36 SE Doug <td>891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 231 Huntley Cr 232 Cougar Cr 232 Woodruff Mt 933 Melrose 1237 Melrose 933 Melrose 914 Toketee L 347 Lemolo L 688 Lemolo L 688 Lemolo L 340 Diamond L NW 350 Diamond L NW 360 Diamond L NW 3610 Diamond L NW 362 Diamond L NW 363 Diamond L NW 364 Diamond L NW 365 Diamond L NW 369 Diamond L SW 968 Diamond L SW </td> <td>13-3a 13-3a 13-3c 13-3c 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c</td> <td>BLM BLM BLM BLM PV PV PV FS FS FS</td> <td>-</td> <td>1</td> <td>oF *al</td> <td>1 NL F TD</td> <td>1 d 1 d NL al al al</td> <td>2 F NL al al al</td> <td>F F al al al al al</td> <td>al 1 al al al al al</td> <td>al F al oF al al NL 1</td> <td>2 al oF al F al NL 1</td> <td>2 al al 1d al 2 al al nL 1</td> <td>al al 2 1/f al al al NL F</td> <td>al al F oF al al NL oF</td> <td>F al al 2 al 2 al al al NL al</td> <td>F al al 2 al 1 F NL NL F</td> <td>*2 al al oF al 1 al 2 NL NL NL 1</td> <td>al al F al 2 al 2 NL NL oF</td> <td>al NL 2 al oF al oF NL NL</td> <td>al NL 1 ND 1 al oF *al NL NL 1</td> <td>al ND ND 1 N 2 al 1 NL NL NL oF</td> <td>N N OF al 1 NL NL NL oF ND *F</td> <td>oF oF/L NL 1 NL NL NL oF N 1</td> <td>oF 2 al NL oF F F NL NL NL NL NL oF 1</td> <td>F al al 2 NL 2 al 2 al 2 F NL 1 NL NL NL 1 NL 2</td> <td>al al 2 NL 2 NL 1 2 NL 2 NL NL NL NL NL 2 NL 2</td> <td>al al 2 NL F NL F NL NL 2 NL 2 NL</td> <td>ai 2 NL 2 *al NL 2 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 N</td> <td>al 2 F al NL al oF NL 3 al oF NL 1 NL NL NL 1</td> <td>ai 2 al NL NL 1 0F NL 1 NL 1 NL NL NL NL NL NL NL NL NL NL NL NL ND 2</td>	891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 231 Huntley Cr 232 Cougar Cr 232 Woodruff Mt 933 Melrose 1237 Melrose 933 Melrose 914 Toketee L 347 Lemolo L 688 Lemolo L 688 Lemolo L 340 Diamond L NW 350 Diamond L NW 360 Diamond L NW 3610 Diamond L NW 362 Diamond L NW 363 Diamond L NW 364 Diamond L NW 365 Diamond L NW 369 Diamond L SW 968 Diamond L SW	13-3a 13-3a 13-3c 13-3c 13-3a 13-3c	BLM BLM PV PV PV FS FS FS	-	1	oF *al	1 NL F TD	1 d 1 d NL al al al	2 F NL al al al	F F al al al al al	al 1 al al al al al	al F al oF al al NL 1	2 al oF al F al NL 1	2 al al 1d al 2 al al nL 1	al al 2 1/f al al al NL F	al al F oF al al NL oF	F al al 2 al 2 al al al NL al	F al al 2 al 1 F NL NL F	*2 al al oF al 1 al 2 NL NL NL 1	al al F al 2 al 2 NL NL oF	al NL 2 al oF al oF NL NL	al NL 1 ND 1 al oF *al NL NL 1	al ND ND 1 N 2 al 1 NL NL NL oF	N N OF al 1 NL NL NL oF ND *F	oF oF/L NL 1 NL NL NL oF N 1	oF 2 al NL oF F F NL NL NL NL NL oF 1	F al al 2 NL 2 al 2 al 2 F NL 1 NL NL NL 1 NL 2	al al 2 NL 2 NL 1 2 NL 2 NL NL NL NL NL 2 NL 2	al al 2 NL F NL F NL NL 2 NL 2 NL	ai 2 NL 2 *al NL 2 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 N	al 2 F al NL al oF NL 3 al oF NL 1 NL NL NL 1	ai 2 al NL NL 1 0F NL 1 NL 1 NL NL NL NL NL NL NL NL NL NL NL NL ND 2
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 265 06W 07 SW Doug 265 06W 07 SW Doug 265 06W 07 SW Doug 265 06W 08 NW Doug 265 05E 12 SE Doug 265 05E 12 SE Doug 275 05E 36 NE Doug 275 05E 36 NE Doug 275 05E 36 SE Doug 275 05E 36 NE Doug 275 05E 36 NE Doug <td>891 Powell Cr 1135 Tyce 1196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 237 Huntley Cr 237 Huntley Cr 217 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 231 Woodruff Mt 933 Melrose 1237 Melrose 1348 Lemolo L 688 Lemolo L 348 Lemolo L 350 Diamond L NW 350 Diamond L NW 369 <</td> <td>13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3c 13-3c</td> <td>BLM BLM BLM BLM BLM</td> <td>-</td> <td>1</td> <td>oF *al</td> <td>1 NL F TD</td> <td>1 d 1 d NL al al al</td> <td>2 F NL al al al</td> <td>F F al al al al al</td> <td>al 1 al al al al al</td> <td>al F al oF al al NL 1</td> <td>2 al oF al F al NL 1</td> <td>2 al al 1d al 2 al al nL 1</td> <td>al al 2 1/f al al al NL F</td> <td>al al F oF al al NL oF</td> <td>F al al 2 al 2 al al al NL al</td> <td>F al al 2 al 1 F NL NL F</td> <td>*2 al al oF al 1 al 2 NL NL NL 1</td> <td>al al F al 2 al 2 NL NL oF</td> <td>al NL 2 al oF al oF NL NL</td> <td>al NL 1 ND 1 al oF *al NL NL 1</td> <td>al ND ND 1 N 2 al 1 NL NL NL oF</td> <td>N N OF al 1 NL NL NL NL OF ND</td> <td>oF oF/L NL NL NL NL NL oF</td> <td>oF 2 al NL oF F F NL NL NL NL oF</td> <td>F al 2 NL 2 2 F NL 1 NL NL NL 1 NL</td> <td>al al NL 2 NL 1 2 NL NL NL NL NL NL</td> <td>al al 2 NL F NL F NL NL 2 NL 2 NL</td> <td>ai 2 NL 2 *al NL 2 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 N</td> <td>al F al NL A? al OF NL NL NL NL NL NL NL</td> <td>ai 2 al 2 NL NL 1 0F NL 1 0F NL 1 NL NL NL NL NL NL NL NL 2 2</td>	891 Powell Cr 1135 Tyce 1196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 237 Huntley Cr 237 Huntley Cr 217 Golden Bar 185 Cougar Cr 225 Cougar Cr 721 Cougar Cr 231 Woodruff Mt 933 Melrose 1237 Melrose 1348 Lemolo L 688 Lemolo L 348 Lemolo L 350 Diamond L NW 350 Diamond L NW 369 <	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3c	BLM BLM BLM	-	1	oF *al	1 NL F TD	1 d 1 d NL al al al	2 F NL al al al	F F al al al al al	al 1 al al al al al	al F al oF al al NL 1	2 al oF al F al NL 1	2 al al 1d al 2 al al nL 1	al al 2 1/f al al al NL F	al al F oF al al NL oF	F al al 2 al 2 al al al NL al	F al al 2 al 1 F NL NL F	*2 al al oF al 1 al 2 NL NL NL 1	al al F al 2 al 2 NL NL oF	al NL 2 al oF al oF NL NL	al NL 1 ND 1 al oF *al NL NL 1	al ND ND 1 N 2 al 1 NL NL NL oF	N N OF al 1 NL NL NL NL OF ND	oF oF/L NL NL NL NL NL oF	oF 2 al NL oF F F NL NL NL NL oF	F al 2 NL 2 2 F NL 1 NL NL NL 1 NL	al al NL 2 NL 1 2 NL NL NL NL NL NL	al al 2 NL F NL F NL NL 2 NL 2 NL	ai 2 NL 2 *al NL 2 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 N	al F al NL A? al OF NL NL NL NL NL NL NL	ai 2 al 2 NL NL 1 0F NL 1 0F NL 1 NL NL NL NL NL NL NL NL 2 2
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 06W 12 SW Doug 265 06W 07 SW Doug 265 06W 07 SW Doug 265 06W 08 NW Doug 265 05E 12 SE Doug 265 05E 12 SE Doug 265 05E 12 SE Doug 275 05E 36 SE Doug <td>891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 231 Huntley Cr 232 Cougar Cr 232 Woodruff Mt 933 Melrose 1237 Melrose 933 Melrose 914 Toketee L 347 Lemolo L 688 Lemolo L 688 Lemolo L 340 Diamond L NW 350 Diamond L NW 360 Diamond L NW 3610 Diamond L NW 362 Diamond L NW 363 Diamond L NW 364 Diamond L NW 365 Diamond L NW 369 Diamond L SW 968 Diamond L SW </td> <td>13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3c 13-3c<!--</td--><td>BLM BLM BLM BLM PV FS FS FS BLM BLM</td><td>-</td><td>1</td><td>oF *al</td><td>1 NL F TD</td><td>1 d 1 d NL al al al</td><td>2 F NL al al al</td><td>F F al al al al al</td><td>al 1 al al al al al</td><td>al F al oF al al NL 1</td><td>2 al oF al F al NL 1</td><td>2 al al 1d al 2 al al nL 1</td><td>al al 2 1/f al al al NL F</td><td>al al F oF al al NL oF</td><td>F al al 2 al 2 al al al NL al</td><td>F al al 2 al 1 F NL NL F</td><td>*2 al al oF al 1 al 2 NL NL NL 1</td><td>al al F al 2 al 2 NL NL oF</td><td>al NL 2 al oF al oF NL NL</td><td>al NL 1 ND 1 al oF *al NL NL 1</td><td>al ND ND 1 N 2 al 1 NL NL NL oF</td><td>N N OF al 1 NL NL NL oF ND *F</td><td>oF oF/L NL 1 NL NL NL oF N 1</td><td>oF 2 al NL oF F F NL NL NL NL NL oF 1</td><td>F al al 2 NL 2 al 2 al 2 F NL 1 NL NL NL 1 NL 2</td><td>al al 2 NL 2 NL 1 2 NL 2 NL NL NL NL NL 2 NL 2</td><td>al al 2 NL F NL F NL NL 2 NL 2 NL</td><td>ai 2 NL 2 *al NL 2 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 N</td><td>al F al NL A? al OF NL NL NL NL NL NL NL</td><td>ai 2 al 2 NL NL 1 0F NL 1 0F NL 1 NL NL NL NL NL NL NL NL 2 2</td></td>	891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 231 Huntley Cr 232 Cougar Cr 232 Woodruff Mt 933 Melrose 1237 Melrose 933 Melrose 914 Toketee L 347 Lemolo L 688 Lemolo L 688 Lemolo L 340 Diamond L NW 350 Diamond L NW 360 Diamond L NW 3610 Diamond L NW 362 Diamond L NW 363 Diamond L NW 364 Diamond L NW 365 Diamond L NW 369 Diamond L SW 968 Diamond L SW	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3c 13-3c </td <td>BLM BLM BLM BLM PV FS FS FS BLM BLM</td> <td>-</td> <td>1</td> <td>oF *al</td> <td>1 NL F TD</td> <td>1 d 1 d NL al al al</td> <td>2 F NL al al al</td> <td>F F al al al al al</td> <td>al 1 al al al al al</td> <td>al F al oF al al NL 1</td> <td>2 al oF al F al NL 1</td> <td>2 al al 1d al 2 al al nL 1</td> <td>al al 2 1/f al al al NL F</td> <td>al al F oF al al NL oF</td> <td>F al al 2 al 2 al al al NL al</td> <td>F al al 2 al 1 F NL NL F</td> <td>*2 al al oF al 1 al 2 NL NL NL 1</td> <td>al al F al 2 al 2 NL NL oF</td> <td>al NL 2 al oF al oF NL NL</td> <td>al NL 1 ND 1 al oF *al NL NL 1</td> <td>al ND ND 1 N 2 al 1 NL NL NL oF</td> <td>N N OF al 1 NL NL NL oF ND *F</td> <td>oF oF/L NL 1 NL NL NL oF N 1</td> <td>oF 2 al NL oF F F NL NL NL NL NL oF 1</td> <td>F al al 2 NL 2 al 2 al 2 F NL 1 NL NL NL 1 NL 2</td> <td>al al 2 NL 2 NL 1 2 NL 2 NL NL NL NL NL 2 NL 2</td> <td>al al 2 NL F NL F NL NL 2 NL 2 NL</td> <td>ai 2 NL 2 *al NL 2 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 N</td> <td>al F al NL A? al OF NL NL NL NL NL NL NL</td> <td>ai 2 al 2 NL NL 1 0F NL 1 0F NL 1 NL NL NL NL NL NL NL NL 2 2</td>	BLM BLM PV FS FS FS BLM BLM	-	1	oF *al	1 NL F TD	1 d 1 d NL al al al	2 F NL al al al	F F al al al al al	al 1 al al al al al	al F al oF al al NL 1	2 al oF al F al NL 1	2 al al 1d al 2 al al nL 1	al al 2 1/f al al al NL F	al al F oF al al NL oF	F al al 2 al 2 al al al NL al	F al al 2 al 1 F NL NL F	*2 al al oF al 1 al 2 NL NL NL 1	al al F al 2 al 2 NL NL oF	al NL 2 al oF al oF NL NL	al NL 1 ND 1 al oF *al NL NL 1	al ND ND 1 N 2 al 1 NL NL NL oF	N N OF al 1 NL NL NL oF ND *F	oF oF/L NL 1 NL NL NL oF N 1	oF 2 al NL oF F F NL NL NL NL NL oF 1	F al al 2 NL 2 al 2 al 2 F NL 1 NL NL NL 1 NL 2	al al 2 NL 2 NL 1 2 NL 2 NL NL NL NL NL 2 NL 2	al al 2 NL F NL F NL NL 2 NL 2 NL	ai 2 NL 2 *al NL 2 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 N	al F al NL A? al OF NL NL NL NL NL NL NL	ai 2 al 2 NL NL 1 0F NL 1 0F NL 1 NL NL NL NL NL NL NL NL 2 2
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 08W 12 SW Doug 255 06W 12 SW Doug 255 06W 12 SW Doug 255 06W 12 SW Doug 265 06W 07 SW Doug 265 06W 07 SW Doug 265 06W 08 NW Doug 265 06W 18 NW Doug 265 05E 12 SW Doug 265 05E 12 SW Doug 265 05E 12 SW Doug 275 05E 36 SE Doug <td>891 Powell Cr 1135 Tyee 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 2371 Huntley Cr 2371 Huntley Cr 2371 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 221 Cougar Cr 721 Cougar Cr 232 Woodruff Mt 933 Melrose 237 Melosa 914 Toketee L 347 Lemolo L 348 Lemolo L 348 Lemolo L 348 Diamond L NW 350 Diamond L NW 365 Diamond L NW 365 Diamond L NW 369 Diamond L NW 369 Diamond L SW 968 Diamond L SW 928 Galesville Res 1113 Galesville Res </td> <td>13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3c 13-3d<!--</td--><td>BLM BLM BLM BLM FS FS BLM BLM</td><td>-</td><td>1</td><td>oF *al</td><td>1 NL F TD</td><td>1 d 1 d NL al al al</td><td>2 F NL al al al</td><td>F F al al al al al</td><td>al 1 al al al al al</td><td>al F al oF al al NL 1</td><td>2 al oF al F al NL 1</td><td>2 al al 1d al 2 al al nL 1</td><td>al al 2 1/f al al al NL F</td><td>al al F oF al al NL oF</td><td>F al al 2 al 2 al al al NL al</td><td>F al al 2 al 1 F NL NL F</td><td>*2 al al oF al 1 al 2 NL NL NL 1</td><td>al al F al 2 al 2 NL NL oF</td><td>U al NL 2 al oF NL NL 2 1</td><td>al NL 1 ND 1 al oF *al NL NL 1</td><td>al ND ND 1 N 2 al 1 NL NL NL oF</td><td>N N OF al 1 NL NL NL NL NL SF -</td><td>oF oF/L NL 1 NL NL NL oF N 1</td><td>oF 2 al NL oF F F NL NL NL NL NL oF 1</td><td>F al 2 NL 2 2 3 7 8 1 NL 1 NL 1 1 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 2 2 1</td><td>al al 2 NL 2 NL 1 2 NL 2 NL NL NL NL NL 2 NL 2</td><td>al al 2 NL F NL F NL NL 2 NL 2 NL</td><td>ai 2 NL 2 *al NL 2 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 N</td><td>al F al NL NL A? al OF NL NL NL NL NL 1 NL 1</td><td>ai 2 31 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td></td>	891 Powell Cr 1135 Tyee 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 2371 Huntley Cr 2371 Huntley Cr 2371 Huntley Cr 1266 Bottle Cr 172 Golden Bar 185 Cougar Cr 221 Cougar Cr 721 Cougar Cr 232 Woodruff Mt 933 Melrose 237 Melosa 914 Toketee L 347 Lemolo L 348 Lemolo L 348 Lemolo L 348 Diamond L NW 350 Diamond L NW 365 Diamond L NW 365 Diamond L NW 369 Diamond L NW 369 Diamond L SW 968 Diamond L SW 928 Galesville Res 1113 Galesville Res	13-3a 13-3a 13-3c 13-3c 13-3c 13-3a 13-3c 13-3d </td <td>BLM BLM BLM BLM FS FS BLM BLM</td> <td>-</td> <td>1</td> <td>oF *al</td> <td>1 NL F TD</td> <td>1 d 1 d NL al al al</td> <td>2 F NL al al al</td> <td>F F al al al al al</td> <td>al 1 al al al al al</td> <td>al F al oF al al NL 1</td> <td>2 al oF al F al NL 1</td> <td>2 al al 1d al 2 al al nL 1</td> <td>al al 2 1/f al al al NL F</td> <td>al al F oF al al NL oF</td> <td>F al al 2 al 2 al al al NL al</td> <td>F al al 2 al 1 F NL NL F</td> <td>*2 al al oF al 1 al 2 NL NL NL 1</td> <td>al al F al 2 al 2 NL NL oF</td> <td>U al NL 2 al oF NL NL 2 1</td> <td>al NL 1 ND 1 al oF *al NL NL 1</td> <td>al ND ND 1 N 2 al 1 NL NL NL oF</td> <td>N N OF al 1 NL NL NL NL NL SF -</td> <td>oF oF/L NL 1 NL NL NL oF N 1</td> <td>oF 2 al NL oF F F NL NL NL NL NL oF 1</td> <td>F al 2 NL 2 2 3 7 8 1 NL 1 NL 1 1 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 2 2 1</td> <td>al al 2 NL 2 NL 1 2 NL 2 NL NL NL NL NL 2 NL 2</td> <td>al al 2 NL F NL F NL NL 2 NL 2 NL</td> <td>ai 2 NL 2 *al NL 2 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 N</td> <td>al F al NL NL A? al OF NL NL NL NL NL 1 NL 1</td> <td>ai 2 31 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td>	BLM BLM FS FS BLM BLM	-	1	oF *al	1 NL F TD	1 d 1 d NL al al al	2 F NL al al al	F F al al al al al	al 1 al al al al al	al F al oF al al NL 1	2 al oF al F al NL 1	2 al al 1d al 2 al al nL 1	al al 2 1/f al al al NL F	al al F oF al al NL oF	F al al 2 al 2 al al al NL al	F al al 2 al 1 F NL NL F	*2 al al oF al 1 al 2 NL NL NL 1	al al F al 2 al 2 NL NL oF	U al NL 2 al oF NL NL 2 1	al NL 1 ND 1 al oF *al NL NL 1	al ND ND 1 N 2 al 1 NL NL NL oF	N N OF al 1 NL NL NL NL NL SF -	oF oF/L NL 1 NL NL NL oF N 1	oF 2 al NL oF F F NL NL NL NL NL oF 1	F al 2 NL 2 2 3 7 8 1 NL 1 NL 1 1 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 2 2 1	al al 2 NL 2 NL 1 2 NL 2 NL NL NL NL NL 2 NL 2	al al 2 NL F NL F NL NL 2 NL 2 NL	ai 2 NL 2 *al NL 2 1 2 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 N	al F al NL NL A? al OF NL NL NL NL NL 1 NL 1	ai 2 31 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 255 06W 12 SW Doug 255 06W 12 SW Doug 255 06W 12 SW Doug 255 06W 07 SW Doug 255 06W 07 SW Doug 255 06W 08 NW Doug 275 06W 08 NW Doug 275 06W 08 NW Doug 265 05E 12 SW Doug 275 05E 36 NE Doug 275 05E 36 SE Doug 275 05E 36 SE Doug 275 05E 36 NE Doug 275 05E 36 NE Doug 280 05E 13 SE Doug 280 05E 13 SE Doug 280 05E 13 SE Doug <td>891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 237 Huntley Cr 237 Huntley Cr 2166 Bottle Cr 172 Golden Bar 185 Cougar Cr 221 Cougar Cr 232 Woodruff Mt 933 Melrose 1237 Melrose 1340 Diamond L NW 350 Diamond L NW 369</td> <td>13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3d 13-3d 13-3d 13-3c 13-3c 13-3d 13-3d 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c<!--</td--><td>BLM BLM BLM BLM BLM</td><td>-</td><td>1</td><td>oF *al</td><td>1 NL F TD</td><td>1 d 1 d NL al al al</td><td>2 F NL al al al</td><td>F F al al al al al</td><td>al 1 al al al al al</td><td>al F al oF al al NL 1</td><td>2 al oF al F al NL 1</td><td>2 al al 1d al 2 al al al NL 1</td><td>al al 2 1/f al al Al R F</td><td>al al F oF al al NL oF</td><td>F al al 2 al 2 al al al NL al</td><td>F al al 2 al 1 F NL NL F</td><td>*2 al al oF al 1 2 NL NL NL 1</td><td>al al F al 2 al 2 NL NL oF</td><td>U al NL 2 al oF NL NL 2 1</td><td>al NL 1 ND 1 al oF *al NL NL 1</td><td>al ND ND 1 N 2 al 1 NL NL NL oF</td><td>N N OF al 1 NL NL NL NL NL SF -</td><td>oF oF/L NL 1 NL NL NL oF N 1</td><td>oF 2 al NL oF F NL F NL NL NL OF 1 F 1 2</td><td>F al 2 NL 2 al 2 F F NL 1 NL NL NL 1 NL 2 2 1d 2</td><td>al al 2 NL 2 NL 1 2 NL NL 2 NL 2 NL 2 NL 2 NL</td><td>al al 2 NL F NL F NL NL NL 2 NL 1 N,0? F</td><td>al 2 3 3 4 1 2 *al 1 2 8 4 1 1 2 1 1 2 8 1 1 1 2 8 1 1 1 2 8 1 1 1 2 8 1 1 1 2 8 1 1 1 1</td><td>al 2 F al NL Al oF NL 3 3 A? al al oF NL NL NL 1 NL 1 1 2 U 1</td><td>ai 2 3 3 3 1 3 2 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3</td></td>	891 Powell Cr 1135 Tyree 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 237 Huntley Cr 237 Huntley Cr 2166 Bottle Cr 172 Golden Bar 185 Cougar Cr 221 Cougar Cr 232 Woodruff Mt 933 Melrose 1237 Melrose 1340 Diamond L NW 350 Diamond L NW 369	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3d 13-3d 13-3d 13-3c 13-3c 13-3d 13-3d 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c </td <td>BLM BLM BLM BLM BLM</td> <td>-</td> <td>1</td> <td>oF *al</td> <td>1 NL F TD</td> <td>1 d 1 d NL al al al</td> <td>2 F NL al al al</td> <td>F F al al al al al</td> <td>al 1 al al al al al</td> <td>al F al oF al al NL 1</td> <td>2 al oF al F al NL 1</td> <td>2 al al 1d al 2 al al al NL 1</td> <td>al al 2 1/f al al Al R F</td> <td>al al F oF al al NL oF</td> <td>F al al 2 al 2 al al al NL al</td> <td>F al al 2 al 1 F NL NL F</td> <td>*2 al al oF al 1 2 NL NL NL 1</td> <td>al al F al 2 al 2 NL NL oF</td> <td>U al NL 2 al oF NL NL 2 1</td> <td>al NL 1 ND 1 al oF *al NL NL 1</td> <td>al ND ND 1 N 2 al 1 NL NL NL oF</td> <td>N N OF al 1 NL NL NL NL NL SF -</td> <td>oF oF/L NL 1 NL NL NL oF N 1</td> <td>oF 2 al NL oF F NL F NL NL NL OF 1 F 1 2</td> <td>F al 2 NL 2 al 2 F F NL 1 NL NL NL 1 NL 2 2 1d 2</td> <td>al al 2 NL 2 NL 1 2 NL NL 2 NL 2 NL 2 NL 2 NL</td> <td>al al 2 NL F NL F NL NL NL 2 NL 1 N,0? F</td> <td>al 2 3 3 4 1 2 *al 1 2 8 4 1 1 2 1 1 2 8 1 1 1 2 8 1 1 1 2 8 1 1 1 2 8 1 1 1 2 8 1 1 1 1</td> <td>al 2 F al NL Al oF NL 3 3 A? al al oF NL NL NL 1 NL 1 1 2 U 1</td> <td>ai 2 3 3 3 1 3 2 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3</td>	BLM BLM BLM	-	1	oF *al	1 NL F TD	1 d 1 d NL al al al	2 F NL al al al	F F al al al al al	al 1 al al al al al	al F al oF al al NL 1	2 al oF al F al NL 1	2 al al 1d al 2 al al al NL 1	al al 2 1/f al al Al R F	al al F oF al al NL oF	F al al 2 al 2 al al al NL al	F al al 2 al 1 F NL NL F	*2 al al oF al 1 2 NL NL NL 1	al al F al 2 al 2 NL NL oF	U al NL 2 al oF NL NL 2 1	al NL 1 ND 1 al oF *al NL NL 1	al ND ND 1 N 2 al 1 NL NL NL oF	N N OF al 1 NL NL NL NL NL SF -	oF oF/L NL 1 NL NL NL oF N 1	oF 2 al NL oF F NL F NL NL NL OF 1 F 1 2	F al 2 NL 2 al 2 F F NL 1 NL NL NL 1 NL 2 2 1d 2	al al 2 NL 2 NL 1 2 NL NL 2 NL 2 NL 2 NL 2 NL	al al 2 NL F NL F NL NL NL 2 NL 1 N,0? F	al 2 3 3 4 1 2 *al 1 2 8 4 1 1 2 1 1 2 8 1 1 1 2 8 1 1 1 2 8 1 1 1 2 8 1 1 1 2 8 1 1 1 1	al 2 F al NL Al oF NL 3 3 A? al al oF NL NL NL 1 NL 1 1 2 U 1	ai 2 3 3 3 1 3 2 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3
Doug 245 07W 31 NW Doug 255 04W 25 SW Doug 255 07W 07 SW Doug 265 06W 08 NW Doug 265 05E 12 SE Doug 265 05E 12 SW Doug 265 05E 12 SW Doug 275 05E 36 SE Doug 275 05E 36 SE Doug 275 05E 36 SE Doug 275 06E 30 SE Doug 275 06E 30 SE Doug 280 05E 13 SE Doug 280 05E 13 SE Doug 280 05E 13 SE Doug <td>891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 237 Huntley Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 231 Woodruff Mt 923 Woodruff Mt 923 Melrose 1237 Melrose 1347 Lemolo L 348 Lemolo L 349 Diamond L NW 350 Diamond L NW 360 Diamond L NW 3619 Diamond L NW 362 Diamond L SW 78</td> <td>13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3c 13-3c<!--</td--><td>BLM BLM BLM BLM FS FS FS BLM BLM BLM</td><td>-</td><td>1</td><td>oF *al</td><td>1 NL F TD</td><td>1 d 1 d NL al al al</td><td>2 F NL al al al</td><td>F F al al al al al</td><td>al 1 al al al al al</td><td>al F al oF al al NL 1</td><td>2 al oF al F al NL 1</td><td>2 al al 1d al 2 al al nL 1</td><td>al al 2 1/f al al al NL F</td><td>al al F oF al al NL oF</td><td>F al al 2 al 2 al al al NL al</td><td>F al al 2 al 1 F NL NL F O?</td><td>*2 al al oF al 1 NL NL NL 1 F</td><td>al al F al 2 al 2 NL NL oF</td><td>U al NL 2 al oF NL NL 2 1</td><td>al Al NL 1 ND 1 Al OF *al NL NL 1 2 2</td><td>al ND ND 1 NL NL NL oF 0F</td><td>N N OF al 1 NL NL NL NL NL F -</td><td>oF oF/L NL 1 NL NL NL oF N 1</td><td>oF 2 al NL oF F NL F NL NL NL NL OF 1 1</td><td>F al 2 NL 2 2 F NL 1 NL NL 1 NL 1 2 2 1 d</td><td>al 2 NL 2 NL 2 1 NL 2 NL 2 NL 2 NL NL 2 NL 2 NL 2 1 NL 2 7 NL 2 7 NL 2 7 NL 7 7 7 7 8 8 8 7 8 7 8 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8</td><td>al al 2 NL F NL F NL F NL NL NL NL NL NL NL NL NL NL O? F U</td><td>al 2 1 NL 2 *al 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2</td><td>al F al NL NL Al OF NL Al Al Al Al NL NL NL NL NL NL 1 </td><td>ai 2 31 2 NL 1 NL 1 0F NL 1 0F NL 1 NL NL NL NL NL NL NL 2 2 NL 2 1 2 0 1 2 0 1 2 0 1 0 1 0 1 0 1 0 1 0</td></td>	891 Powell Cr 1135 Tyce 196 Huntley Cr 221 Huntley Cr 233 Huntley Cr 234 Huntley Cr 237 Huntley Cr 237 Huntley Cr 172 Golden Bar 185 Cougar Cr 225 Cougar Cr 231 Woodruff Mt 923 Woodruff Mt 923 Melrose 1237 Melrose 1347 Lemolo L 348 Lemolo L 349 Diamond L NW 350 Diamond L NW 360 Diamond L NW 3619 Diamond L NW 362 Diamond L SW 78	13-3a 13-3a 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3c 13-3a 13-3c 13-3c </td <td>BLM BLM BLM BLM FS FS FS BLM BLM BLM</td> <td>-</td> <td>1</td> <td>oF *al</td> <td>1 NL F TD</td> <td>1 d 1 d NL al al al</td> <td>2 F NL al al al</td> <td>F F al al al al al</td> <td>al 1 al al al al al</td> <td>al F al oF al al NL 1</td> <td>2 al oF al F al NL 1</td> <td>2 al al 1d al 2 al al nL 1</td> <td>al al 2 1/f al al al NL F</td> <td>al al F oF al al NL oF</td> <td>F al al 2 al 2 al al al NL al</td> <td>F al al 2 al 1 F NL NL F O?</td> <td>*2 al al oF al 1 NL NL NL 1 F</td> <td>al al F al 2 al 2 NL NL oF</td> <td>U al NL 2 al oF NL NL 2 1</td> <td>al Al NL 1 ND 1 Al OF *al NL NL 1 2 2</td> <td>al ND ND 1 NL NL NL oF 0F</td> <td>N N OF al 1 NL NL NL NL NL F -</td> <td>oF oF/L NL 1 NL NL NL oF N 1</td> <td>oF 2 al NL oF F NL F NL NL NL NL OF 1 1</td> <td>F al 2 NL 2 2 F NL 1 NL NL 1 NL 1 2 2 1 d</td> <td>al 2 NL 2 NL 2 1 NL 2 NL 2 NL 2 NL NL 2 NL 2 NL 2 1 NL 2 7 NL 2 7 NL 2 7 NL 7 7 7 7 8 8 8 7 8 7 8 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8</td> <td>al al 2 NL F NL F NL F NL NL NL NL NL NL NL NL NL NL O? F U</td> <td>al 2 1 NL 2 *al 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2</td> <td>al F al NL NL Al OF NL Al Al Al Al NL NL NL NL NL NL 1 </td> <td>ai 2 31 2 NL 1 NL 1 0F NL 1 0F NL 1 NL NL NL NL NL NL NL 2 2 NL 2 1 2 0 1 2 0 1 2 0 1 0 1 0 1 0 1 0 1 0</td>	BLM BLM FS FS FS BLM BLM BLM	-	1	oF *al	1 NL F TD	1 d 1 d NL al al al	2 F NL al al al	F F al al al al al	al 1 al al al al al	al F al oF al al NL 1	2 al oF al F al NL 1	2 al al 1d al 2 al al nL 1	al al 2 1/f al al al NL F	al al F oF al al NL oF	F al al 2 al 2 al al al NL al	F al al 2 al 1 F NL NL F O?	*2 al al oF al 1 NL NL NL 1 F	al al F al 2 al 2 NL NL oF	U al NL 2 al oF NL NL 2 1	al Al NL 1 ND 1 Al OF *al NL NL 1 2 2	al ND ND 1 NL NL NL oF 0F	N N OF al 1 NL NL NL NL NL F -	oF oF/L NL 1 NL NL NL oF N 1	oF 2 al NL oF F NL F NL NL NL NL OF 1 1	F al 2 NL 2 2 F NL 1 NL NL 1 NL 1 2 2 1 d	al 2 NL 2 NL 2 1 NL 2 NL 2 NL 2 NL NL 2 NL 2 NL 2 1 NL 2 7 NL 2 7 NL 2 7 NL 7 7 7 7 8 8 8 7 8 7 8 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	al al 2 NL F NL F NL F NL NL NL NL NL NL NL NL NL NL O? F U	al 2 1 NL 2 *al 1 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2 NL 2	al F al NL NL Al OF NL Al Al Al Al NL NL NL NL NL NL 1 	ai 2 31 2 NL 1 NL 1 0F NL 1 0F NL 1 NL NL NL NL NL NL NL 2 2 NL 2 1 2 0 1 2 0 1 2 0 1 0 1 0 1 0 1 0 1 0

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

OREGON NESTS: Some may be listed in the Washington section if the breeding territory includes nests in both states.

_																																
	02N 08E 05 NE	1024 Government Cove	10-70	CI																								oF	oF	al	al	ND
	02N 08E 04 SE	1118 Herman Cr 1277 Gorton Cr	10-70	FS FS																											2	1
	02N 08E 11 NE 02N 09E 05 SE	851 Mount Defiance	10-7o 10-7o	FS																					1	1	02	2	2	1	2	oF 1
		1174 Wells Is	10-70	FS																					1		01	2	2	*oF	1/L	NL
Hood Hood		1251 Wells Is	10-76	FS																										~0F	1/L	1
Hood		1193 Wah Gwin Gwin	10-70	PV																											F	ND
Hood		1313 Wah Gwin Gwin	10-70	PV																											F	*oF
Hood		749 Twin Tunnels	10-70	FS																				*oF/b	al	al	al	al	al	ND	N	01
	03N 11E 33 SW	826 Twin Tunnels	10-70	FS																				0170	F	F	2	1	al	2	2	2
	02N 11E 04 NW	1102 Twin Tunnels	10-70	FS																							2		1	al	NL	NL
Jack	33S 01E 31 NW	893 Rogue Elk	23-1a	BLM																						F	2	2	2	2	al	NL
Jack	33S 01E 31 NW	1191 Rogue Elk	23-1a	BLM																											*1	1
Jack	33S 02E 31 SW	522 Lost Cr Res	23-1b	BLM										1	2	1	F	1	1	F	oF	al	Ν									
Jack	33S 02E 31 SW	647 Lost Cr Res	23-1b	BLM																		1	1	2	al	NL	NL	NL	NL	NL	NL	NL
Jack	33S 01E 26 SE	836 Lost Cr Res	23-1b	COE																					2	F	1	F	1	2	1	2
Jack	34S 01E 25 NE	957 Big Butte Cr	23-1a	BLM																							oF	oF	U	1	F	1
Jack	34S 03E 03 SE	578 Parsnip Cr	23-1b	BLM														-	2	1	2	ND	Ν									
		648 Parsnip Cr	23-1b	BLM																		F	1	2	F	F	1	1	al	NL	NL	NL
Jack		1086 Parsnip Cr	23-1b	BLM																									oF	2	F	1
Jack		539 Little Slough Is	23-1a	PV												2	2	2	3	3	3	2	2	2	2	2	1	1	NL	NL	NL	NL
Jack	35S 01W 05 SE	1060 Little Slough Is	23-1a	PV																						- 1	2	1	*2	2	2	3
Jack		898 Lake Cr 486 Willow L	23-1b	BLM					1	2	1	-	ND	N												1	2	1	2		F	0?
Jack	36S 03E 10 NW 36S 03E 03 NE	486 Willow L 518 Willow L	23-1b 23-1b	FS CO					1	2	1	F	ND *oF	N 1	2	oF	oF	oF	oF	F	1	1	F	F	F	F	al	al	al	al	al	al
Jack Jack	36S 03E 03 NE 36S 03E 03 SE	518 Willow L 961 Willow L	23-1b 23-1b	CO									~OF	1	2	OF	OF	oF	OF	۲	1	1	F	۲	۲	F	al F	aí 1	al 1	al	al 1	ai F
Jack		669 Salmon Rock	23-10 23-1a	DOT																		oF	F	1	F	F	oF	oF	U U	F U	U	U
Jack		543 Fish L	23-1b	FS												2	1	F	oF	F	oF	oF	F	oF	oF	oF	oF	0?	oF	oF	NL	NL
Jack	37S 04E 03 Cent	1227 Fish L	23-1b	FS												2			01		01	01		01	01	01	01	0:	01	01	1	F
Jack	38S 03E 24 SE	497 Howard Pr Res N	23-1b	BLM						1/b	OS	NL	NL	NL	Ν																	
Jack	38S 03E 24 NE	509 Howard Pr Res N	23-1b	PV								1/s	F	F	1	oF	ND	N														
Jack	38S 03E 24 NE	553 Howard Pr Res N	23-1b	BLM													2	1	1	ND	N											
Jack	38S 04E 19 SW	581 Howard Pr Res N	23-1b	BLM																oF	oF	oF	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Jack	38S 03E 24 NE	657 Howard Pr Res N	23-1b	BLM																		al	1	oF	ND,F	N						
Jack		918 Howard Pr Res N	23-1b	BLM																						2	ND,0?	N			2	ND
Jack		1302 Howard Pr Res N	23-1b	BLM	_																											1
Jack		1048 Doe Is	23-1b	BLM																								2	2	2	al	2
Jack	38S 04E 31 NE	554 Howard Pr Res S	23-1b	BLM													F/b	-	-	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NS
Jack	38S 04E 31 NE	562 Howard Pr Res S	23-1b	BLM BLM														*2	2	2	F	oF	oF	al	oF	ND	N	NI 02	2		2	NC
Jack Jack	38S 04E 31 NE	919 Howard Pr Res S	23-1b	BLM	_																			- T	1	2	NL,0?	NL,0?	2 F	2	2	NS F
Jack		776 Howard Pr Res W	23-1b	PV	2 116 2	2	-	-	-	-	2	1	1	- 5	-5	2.6	1.4-	1	-1	-1	al	-1	-	al	al		N	<u> </u>	F		2	F
Jack Jack	39S 03E 14 NW 39S 03E 11 SW	27 Hyatt Res 466 Hyatt Res (X)	23-1b 23-1b	BLM	2 U/i 2 R1	2 0S	al	al	al	F al	2 al	al	al	oF ND	oF N	2/i	1/r		al	al	a	al	al	a	ai	ND	N					
Jack	39S 03E 15 E1/2	585 Hyatt Res	23-1b 23-1b	BLM	N.	03	ai	ai	ai	ai	ai	ai	ai	ND	IN I				1	1	oF	1	F	1	1	oF	2	1	1	oF	2	
Jack	40S 02E 07 SW	587 Emigrant L	23-1b	PV																oF	F	F	oF	oF	oF	ND	N		· · ·			<u> </u>
Jack	405 02E 07 SE	832 Slide Cr	23-1b	BLM																01			01	01	al	oF	F	al	NL	NL	NL	NL
Jack	40S 02E 07 NE	1034 Slide Cr	23-1b	BLM																								1	1	2	F	F
Jack	41S 04W 02 NE	533 Applegate Res	23-1b	FS											2	2/m	oF	F	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	N		
Jack	41S 04W 02 NE	551 Applegate Res	23-1b	FS													*al	al	1	1	2	2	1	F	oF	oF	F	oF	F	oF	oF	oF
Jeff	10S 12E 26 SW	404 Seekseequa Cr	11-2c	WST												0?	1	2	ND,F	*1	2	3	1	1	1	1	1	1	1	1	1	3
Jeff	11S 10E 13 SE	363 Monty Camp	11-2b	FS				F	1	U	al	al	al	al	al	al	al	al	al	1	2d,ND	Ν										=
Jeff	11S 10E 13 NE	367 Monty Camp	11-2b	FS				al	al	NL		NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Jeff	11S 10E 13 SE	379 Monty Camp	11-2b	FS							1	1	F	0?	2	oF	2	2	oF/s	ND	N											
Jeff	11S 10E 13 S1/2	398 Monty Camp	11-2b	FS												al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Jeff	11S 11E 18 SW	662 Eyerly	11-2b	WST																		F	oF	2	1	F	F	NL	NL	NL	NL	NL
Jeff	11S 10E 13 NW	997 Eyerly	11-2b	FS																								*2	1/n	NL *-E	NL	NL
Jeff	11S 10E 13 SE 11S 10E 13 NE	1144 Eyerly 1195 Monty Camp	11-2b 11-2b	FS FS																										*oF	NL 1	NL ND?/oF
Jeff Jeff	11S 10E 13 NE 11S 11E 02 SW	1195 Monty Camp	11-2b 11-2b	FS WST		1	U	NS	0?	-	-	U	U	U	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NI	NI	NL	NL	NL	NL	ND?/OF NL
Jeff	11S 11E 02 SW 11S 11E 16 NW	382 Daisy Spring 396 Box Canyon	11-2b 11-2b	WST		1	U	NS.	01	-	-	U	U	U	a	ai 1	NL 1	NL 3	NL 3	NL CD,F	NL N	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Jeff	11S 11E 16 E1/2	406 Box Canyon	11-2b	WST													al	al	al	al	1	2	2	1	oF	2d	2	F	1	oF	al	al
Jeff	11S 11E 28 NE	392 Lake Billy Chinook	11-2b	FS											3	ND	N	a	a	ai		2	2		01	20	2			*al	1	1
Jeff		1160 Big Bend	11-2b	FS																										*oF	2	2
	115 11E 28 NW			PGE																		3	1	2	1d	2	2	oF	2/n	ND	N	
Jeff	11S 11E 28 NW 11S 11E 34 NE	672 Fly Cr	11-2b																													
		672 Fly Cr 1108 Fly Cr	11-2b 11-2b	PGE																										*al,ND	N	
Jeff	11S 11E 34 NE 11S 11E 34 NE 11S 11E 27 NE	1108 Fly Cr 1188 Fly Cr Mouth		PGE BLM																										*al,ND	N *oF	1d
Jeff Jeff Jeff Jeff	11S 11E 34 NE 11S 11E 34 NE 11S 11E 27 NE 11S 11E 29 SE	1108 Fly Cr 1188 Fly Cr Mouth 700 Spring Cr	11-2b 11-2b 11-2b	PGE BLM FS																			F	F	oF	al	ND	N				1d
Jeff Jeff Jeff Jeff Jeff	11S 11E 34 NE 11S 11E 34 NE 11S 11E 27 NE 11S 11E 29 SE 11S 11E 31 NE	1108 Fly Cr 1188 Fly Cr Mouth 700 Spring Cr 859 Spring Cr	11-2b 11-2b 11-2b 11-2b	PGE BLM FS FS																			F	F	oF	al	al	2	1/n	N		1d
Jeff Jeff Jeff Jeff Jeff Jeff	11S 11E 34 NE 11S 11E 34 NE 11S 11E 27 NE 11S 11E 27 SE 11S 11E 29 SE 11S 11E 31 NE 11S 11E 31 NE	1108 Fly Cr 1188 Fly Cr Mouth 700 Spring Cr 859 Spring Cr 860 Spring Cr	11-2b 11-2b 11-2b 11-2b 11-2b	PGE BLM FS FS FS																			F	F	oF	al 1	al F	2 al	al/n	N N		1d
Jeff Jeff Jeff Jeff Jeff Jeff	11S 11E 34 NE 11S 11E 34 NE 11S 11E 27 NE 11S 11E 29 SE 11S 11E 29 SE 11S 11E 31 NE 11S 11E 31 NE 11S 11E 31 NW	1108 Fly Cr 1188 Fly Cr Mouth 700 Spring Cr 859 Spring Cr 860 Spring Cr 861 Spring Cr	11-2b 11-2b 11-2b 11-2b 11-2b 11-2b 11-2b	PGE BLM FS FS FS FS																			F	F	oF	al	al	2		N N N	*oF	1d
Jeff Jeff Jeff Jeff Jeff Jeff	11S 11E 34 NE 11S 11E 34 NE 11S 11E 27 NE 11S 11E 27 SE 11S 11E 29 SE 11S 11E 31 NE 11S 11E 31 NE	1108 Fly Cr 1188 Fly Cr Mouth 700 Spring Cr 859 Spring Cr 860 Spring Cr	11-2b 11-2b 11-2b 11-2b 11-2b	PGE BLM FS FS FS																			F	F	oF	al 1	al F	2 al	al/n	N N		1d

Co TRS Location	No	Name	RZ	Own	76 77	78 79	80	81	82	83	84	85	86	87	88	89	90	91	92 9	3 94	1 95	96	97	98	99	00	01	02	03	04	05

OREGON NESTS: Some may be listed in the Washington section if the breeding territory includes nests in both states.

Jeff 11S 11E 30 NE	1257 Street Cr Mouth	11-2b	FS																												1d
Jeff 11S 12E 27 NW	931 Canadian Bench	11-2b 11-2b	BLM																							*oF	F	oF	oF	oF	oF
Jeff 12S 09E 15 SE	695 Wizard Falls	11-2a	FS																		1	2	1	2	2	2	2	2	2	2d	2
Jeff 12S 11E 11 NW	617 Big Canyon	11-2b	PV															-	-	2	2	1	1	oF	3	1	2	2	oF	U	U
Jeff 12S 11E 22 SE	391 Lower Desert	11-2b	PV											2	2	3 ND	*2 2d	ND,0?	' N												
Jeff 12S 11E 22 SE	420 Lower Desert	11-2b	PV															-	2	2	2	2	1	2	1	oF	1d	ND,0?	N		
Jeff 12S 11E 22 SE	1114 Lower Desert	11-2b	PV																									-	2	1	2
Jeff 13S 08E 25 NE	339 Suttle L	11-2a	FS	Α?	- 1	2	al	al	al	al	al	al	2d	2	2	al a	12	ND	Ν												
Jeff 13S 08E 25 NE	359 Suttle L	11-2a	FS				1	2	1	F	2	1	al	al	al	2 2	ND														
Jeff 13S 08E 25 SE	417 Suttle L	11-2a	FS															*1	F	2	1	1	1	2	oF	oF	2	1	1d/n	A?/s	2
Jose 33S 08W 33 NW	915 Alder Cr	23-1a	BLM																					-	2	2	2	2d	1	2	2
Jose 34S 07W 31 SW	921 Maple Gulch	23-1a	BLM																					-	2	2	al	al	al	2	1
Jose 34S 08W 36 SE	991 Maple Gulch	23-1a	ODF																						-	al	2	2	1	al	NL
Jose 35S 07W 35 NE	1031 Brushy Chutes	23-1a	PV																								2	2	1	2	2
Jose 36S 07W 27 SE	577 Rogue Madams	23-1a	BLM														-	2	2	3	al	al	al	al	al	al	ND	N		-	
Jose 36S 07W 25 SE Jose 36S 07W 12 SW	652 Sloan Mt 1009 Finley Bend	23-1a 23-1a	BLM	_																	1	1	1	1	oF	2	al F	al F	al oF	oF F	U
Jose 385 07W 12 SW	981 Pennington Mt	23-1a 23-1a	BLM																							2	1 1	г г	F	oF	2
Jose 385 07W 19 NW	675 Selmac L	23-1a 23-1b	BLM																		1	2	F	r	F	2	2	г 1	<u>г</u> 1	oF	1
Klam 23S 06E 07 E1/2	853 Pengra Pass	23-1D 11-1a	FS																			2	F	<u> </u>	<u>г</u> 1	F	1	2	2	ND	N
Klam 23S 06E 07 E172 Klam 23S 06E 07 SE	1217 Pengra Pass	11-1a	FS																							г		2	2	1	1
Klam 23S 06E 09 SW	310 Odell L NW	11-1a	FS	او		0?	al	al	TD	N																					
Klam 23S 06E 08 SE	368 Odell L W	11-1a	FS	cii	-	01	1	2	1	1	1	oF	oF	F	F	2d a	l al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	N		
Klam 23S 06E 08 SE	410 Odell L W	11-1a	FS				•	-							-		2	2	2	2	2	2	1	2	1	1	2	F/j	al	al	al
Klam 23S 06E 16 SW	309 Odell L SW	11-1a	FS	A?		al	al	al	al	al	al	ND	N				-	-	-	-	-	-		-			-	- 73			
Klam 23S 06E 08 NE	1152 Odell L W	11-1a	FS									-																	*2d	1	oF
Klam 23S 06E 21 NW	796 Crystal Cr	11-1a	FS	_																		Г	1	F	1	al	al	al	2	oF	al
Klam 23S 06E 21 SW	831 Serenity Bay	11-1a	FS																					al	NL	NL	NL	NL	NL	NL	
Klam 23S 06E 21 NW	1047 Pebble Bay	11-1a	FS																							1	2	2/j	al	al	oF
Klam 23S 06E 21 NW	1225 Pebble Bay	11-1a	FS																											*al	al
Klam 23S 06E 14 SE	375 Odell L NE	11-1a	FS							1	al	al	al	al	al	al a	l al	al	al	al	al	al	al	al	al	al	al	al	oF	oF	oF
Klam 23S 06E 14 SE	415 Odell L NE	11-1a	FS	_													-	2	F	oF	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 23S 06E 15 NE	338 Odell L NE	11-1a	FS	-		al	al	al	U	al	al	al	al	al	al	1d 1	oF	al	al	al	al	al	al	al	2	al	al	al	2	NL	NL
Klam 23S 06E 15 NE	690 Triple Thunder	11-1a	FS																		1	2	2	2	al	1	1	2	ND	N	
Klam 23S 06E 15 NE	1153 Triple Thunder	11-1a	FS																										al	al	NL
Klam 23S 06E 09 SE Klam 23S 06E 27 NW	1310 Rosary Cr	11-1a 11-1a	FS	_		oF	F	oF	U	-1	1	1	F	1	F		02	ā	2	F	1	1	F	1	2	- 5		1	F	1	2
	329 Odell L SE		FS		-	OF	F	OF	U	al	1	1	F	1	F	al a	I 0?	2	2	F	1	1	F		2	oF	oF	1	F		1
Klam 23S 06E 25 SW Klam 23S 06E 26 SW	1224 Odell Cr 1290 Resort Ridge	11-1a 11-1a	FS FS																											2/j	al
Klam 23S 07E 01 NE	418 Lava Flow	11-1a	FS																*oF	F	oF	1	al	1	1	1	2	2	1	oF	al
Klam 23S 08E 06 NW	646 Lava Flow	11-1c	FS																-OF	г	*al	al	F	al	al	al	al	al	al	al	al
Klam 23S 08E 06 SW	1287 Lava Flow	11-1c	FS																		ai	ai		ai	ai	ai	di	ai	ai	ai	*oF
Klam 23S 07E 12 NE	335 Davis L SE	11-1c	FS	al	- al	al	al	al	al	al	al	al	al	al	al	al T	D N														
Klam 23S 07E 12 N1/2	333 Davis L SE	11-1c	FS	1/s	- al	al	al	al	al	al	al	al	al	al	al	al N															
Klam 23S 07E 12 W1/2	334 Davis L SE	11-1c	FS		2	F	al	2	F	al	al	al	al	al	al	al a	l al	al	al	al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL
Klam 23S 07E 12 NE	349 Davis L SE	11-1c	FS				*3	al	al	1	oF	2	1	2	2	2 1	F	oF	oF	1	1	F	oF	oF	F	2	TD	N			
Klam 23S 07E 13 NW	352 Davis L S	11-1c	FS				al	al	al	al	al	al	al	al	al	al a	l al	al	al	al	al	al	al	al	NL	NL	al	al	al	NL	NL
Klam 23S 07E 12 NE	1022 Davis L SE	11-1c	FS																								*2	oF	CG	al	NL
Klam 23S 07E 12 SW	1146 Davis L SE	11-1c	FS																										2/n	1/s	2
Klam 24S 06E 21 SW	1057 Tranquil Cove	11-1b	FS																									1	2d	1	ND
Klam 24S 06E 21 NW	1303 Tranquil Cove																														
		11-1b	FS																												-
Klam 24S 06E 26 SE	330 Crescent L	11-1b	FS	-	- 1	F	al	al	al	al	al	al	al	al		al a		al	al	al/s	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 24S 06E 26 SE	330 Crescent L 341 Crescent L	11-1b 11-1b	FS FS	-	- 1 al/		al al	al al	al al	al	al al	al	al		al	al T	D N	al	-		-										
Klam 24S 06E 26 SE Klam 24S 06E 26 SE	330 Crescent L 341 Crescent L 346 Crescent L	11-1b 11-1b 11-1b	FS FS FS	-	- 1 al/ al		al	al al al	1	al 1	al	al oF	al		al		D N	al 1	al 1	al/s 1	al 1	al F	NL 1	NL oF	NL 2	NL F	NL F	NL 1	NL oF	NL F	NL oF
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 24S 06E 35 NE	330 Crescent L 341 Crescent L 346 Crescent L 354 Crescent L	11-1b 11-1b 11-1b 11-1b	FS FS FS FS	-						al 1	al	al	al		al	al T	D N	al 1	-		-								oF	F	oF
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 24S 06E 35 NE Klam 27S 06.5E 12 SW	330 Crescent L 341 Crescent L 346 Crescent L 354 Crescent L 1155 Miller L Klamath	11-1b 11-1b 11-1b 11-1b 22-2a	FS FS FS FS FS	-			al		1	al 1	al	al oF	al		al	al T	D N	al 1	-		-		1	oF			F	1	oF	F	oF O?
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 24S 06E 35 NE Klam 27S 06.5E 12 SW Klam 28S 11E 35 SE	330 Crescent L 341 Crescent L 346 Crescent L 354 Crescent L 1155 Miller L Klamath 727 Bear Flat	11-1b 11-1b 11-1b 11-1b 22-2a 22-3a	FS FS FS FS FS PV	-		al	al 1	al 2	1 al	al 1 al	al ND,F	al oF	al oF	oF	al F	al T pF o	D N F 2		-		-	F *F	1 U	oF	2	F 1	F 0?	1 ND,U	oF oF N,U	F oF U	oF O? U
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 24S 06E 35 NE Klam 27S 06.5E 12 SW Klam 28S 11E 35 SE Klam 29S 09E 22 NW	330 Crescent L 341 Crescent L 346 Crescent L 354 Crescent L 1155 Miller L Klamath 727 Bear Flat 449 Lane Ranch	11-1b 11-1b 11-1b 11-1b 22-2a 22-3a 22-2b	FS FS FS FS FS PV FS	-			al		1	al 1	al	al oF N	al oF	oF F	al F 2	al T pF o	D N F 2		-		-	F	1	oF	2		F	1	oF	F	oF O?
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 24S 06E 35 NE Klam 27S 06.5E 12 SW Klam 28S 11E 35 SE	330 Crescent L 341 Crescent L 346 Crescent L 354 Crescent L 1155 Miller L Klamath 727 Bear Flat	11-1b 11-1b 11-1b 11-1b 22-2a 22-3a	FS FS FS FS FS PV	-		al	al 1	al 2	1 al	al 1 al	al ND,F	al oF N	al oF	oF F	al F 2	al T pF o	2 N F 2		-		-	F *F	1 U	oF	2	F 1	F 0?	1 ND,U	oF oF N,U	F oF U	oF O? U
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 24S 06E 35 NE Klam 27S 06.5E 12 SW Klam 28S 11E 35 SE Klam 29S 09E 22 NW Klam 29S 09E 22 NW	330 Crescent L 341 Crescent L 346 Crescent L 354 Crescent L 1155 Miller L Klamath 727 Bear Flat 449 Lane Ranch 513 Lane Ranch	11-1b 11-1b 11-1b 11-1b 22-2a 22-3a 22-2b 22-2b	FS FS FS FS FS PV FS FS	-		al	al 1	al 2	1 al	al 1 al	al ND,F	al oF N	al oF	oF F	al F 2	al T oF o 1 2 NL N	2 N F 2		1	1	1	F *F *al	1 U al	oF oF al	2 1 NL	F 1 NL	F O? NL	1 ND,U NL	oF oF N,U NL	F oF U	oF O? U
Klam 24S 06E 26S SE Klam 24S 06E 25S NE Klam 24S 06E 35 NE Klam 27S 06.5E 12 SW Klam 28S 11E 35 SE Klam 29S 09E 22 NW Klam 29S 09E 22 NW	330 Crescent L 341 Crescent L 346 Crescent L 354 Crescent L 1155 Miller L Klamath 727 Bear Flat 449 Lane Ranch 513 Lane Ranch 546 Lane Ranch	11-1b 11-1b 11-1b 22-2a 22-3a 22-2b 22-2b 22-2b 22-2b	FS FS FS FS FS FS FS FS FS	-		al	al 1	al 2	1 al	al 1 al	al ND,F	al oF N	al oF	oF F	al F 2	al T oF o 1 2 NL N	D N F 2 ND L N I F		1	1	1	F *F *al	1 U al	oF oF al	2 1 NL	F 1 NL	F O? NL	1 ND,U NL	oF oF N,U NL	F oF U	oF O? U NL
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 24S 06E 25 SE Klam 27S 06.5E 12 SW Klam 28S 11E 35 SE Klam 29S 09E 22 NW Klam 29S 09E 23 SE Klam 29S 09E 28 SE Klam 29S 09E 28 SE	330 Crescent L 341 Crescent L 346 Crescent L 354 Crescent L 1155 Miller L Klamath 727 Bear Flat 449 Lane Ranch 513 Lane Ranch 546 Lane Ranch 1296 Lane Well Lodgepole 530 Three Cr	11-1b 11-1b 11-1b 11-1b 22-2a 22-3a 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b	FS FS FS FS FS FS FS FS FS FS FS FS	-		al	al 1	al 2	1 al	al 1 al	al ND,F	al oF N	al oF	oF F	al F 2	al T pF o 1 2 NL N	D N F 2 ND L N I F		1	2	1	F *F *al F	1 U al oF	oF oF al 1	2 1 NL F	F 1 NL 1 F al	F 0? NL 1	1 ND,U NL	oF N,U NL oF F 1	F U NL 1 2	oF 0? U NL 1 U
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 25 O6E 25 NE Klam 27S 06.5E 12 SW Klam 28S 11E 35 SE Klam 29S 09E 22 NW Klam 29S 09E 22 NW Klam 29S 09E 22 NW Klam 29S 09E 23 SE Klam 29S 09E 28 SE Klam 29S 09E 28 SE Klam 29S 09E 28 NE Klam 29S 09E 28 NE Klam 29S 09E 28 NE	330 Crescent L 341 Crescent L 346 Crescent L 1354 Miller L 1155 Miller L 727 Bear Flat 449 Lane Ranch 513 Lane Ranch 546 Lane Ranch 546 Lane Ranch 526 Lane Well Lodgepole 530 Three Cr	11-1b 11-1b 11-1b 22-2a 22-3a 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b	FS FS FS FS FS FS FS FS FS FS FS	-		al	al 1	al 2	1 al	al 1 al	al ND,F	al oF N	al oF	oF F	al F 2	al T pF o 1 2 NL N	D N F 2 ND L N I F		1	2	1	F *F *al F	1 U al oF	oF oF al 1	2 1 NL F	F 1 NL 1 F	F O? NL 1 al	1 ND,U NL 2 1	oF N,U NL oF	F 0F U NL 1	oF 0? U NL 1 U ND/0?
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 24S 06E 25 NE Klam 27S 06.5E 12 SW Klam 29S 09E 22 NW Klam 29S 09E 23 NE Klam 29S 09E 23 NW Klam 29S 09E 28 NE Klam 29S 09E 28 NE Klam 29S 09E 28 NE Klam 30S 06E 30 NW Klam 30S 09E 09 NW	330 Crescent L 341 Crescent L 346 Crescent L 1355 Miller L Klamath 727 Bear Flat 449 Lane Ranch 513 Lane Ranch 546 Lane Ranch 236 Lane Well Lodgepole 530 Three Cr 939 Three Cr N 989 Skell Head 550 The Peninsula	11-1b 11-1b 11-1b 11-1b 22-2a 22-3a 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2a	FS PV	-		al	al 1	al 2	1 al	al 1 al	al ND,F	al oF N	al oF	oF F	al F 2	al T pF o 1 2 NL N	ND N F 2 NDL N I F		1	1 2 A? al	1 F 1 al	F *F *al F 2	1 u al oF 2 TD	oF oF al 1	2 1 NL F	F 1 NL 1 F al	F O? NL 1 al F	1 ND,U NL 2 1 1	oF N,U NL oF F 1	F U NL 1 2	oF 0? U NL 1 U ND/0? 1
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 27S 06E 21 2 SW Klam 29S 09E 22 NW Klam 29S 09E 23 SE Klam 29S 09E 23 SE Klam 29S 09E 28 SE Klam 30S 09E 20 NW Klam 30S 09E 30 NW Klam 30S 09E 20 NW	330 Crescent L 341 Crescent L 346 Crescent L 354 Crescent L 1155 Miller L Klamath 727 Bear Flat 449 Lane Ranch 513 Lane Ranch 546 Lane Ranch 230 Three Cr 939 Three Cr N 989 Skell Head 550 The Peninsula 573 The Peninsula	11-1b 11-1b 11-1b 22-2a 22-3a 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2a 22-2a 22-2a	FS PV FWS			al	al 1	al 2	1 al	al 1 al	al ND,F	al oF N	al oF	oF F	al F 2	al T pF o NL N a 1 2	ND N F 2 NDL N I F	N 2 1 oF al	1 F 1 al 1	1 2 A? al F	1 F 1 al oF	F *F *al F 2 al	1 u al oF 2 TD ND	oF oF al 1 2	2 NL F oF	F NL 1 F al 2	F NL 1 F 1	1 ND,U NL 2 1 1	oF N,U NL OF F 1 oF	F U NL 1 2 oF	oF 0? U NL 1 U ND/0? 1
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 25 O6E 25 NE Klam 27S 06.5E 12 SW Klam 28S 11E 35 SE Klam 29S 09E 22 NW Klam 29S 09E 22 NW Klam 29S 09E 22 NW Klam 29S 09E 23 SE Klam 29S 09E 28 SE Klam 29S 09E 28 NE Klam 30S 05E 30 NW Klam 30S 09E<09 NW	330 Crescent L 341 Crescent L 346 Crescent L 354 Crescent L 1155 Miller L Klamath 727 Bear Flat 449 Lane Ranch 513 Lane Ranch 546 Lane Ranch 1296 Lane Well Lodgepole 530 Three Cr 939 Three Cr 939 Three Miller Had 550 The Peninsula 573 The Peninsula 579 The Peninsula	11-1b 11-1b 11-1b 11-1b 22-2a 22-3a 22-2b 22-2b 22-2b 22-2b 22-2b 22-2a 22-2a 22-2b 22-2a 22-2b 22-2a	FS FS	-		al	al 1	al 2	1 al	al 1 al	al ND,F	al oF N	al oF	oF F	al F 2	al T pF o NL N a 1 2	ND N F 2 NDL N I F	N 2 1 0F	1 F 1 al	1 2 A? al	1 F 1 al	F *F *al F 2	1 u al oF 2 TD	oF oF al 1 2 N	2 1 NL F	F 1 NL 1 F al	F O? NL 1 al F	1 ND,U NL 2 1 1	oF N,U NL oF F 1	F U NL 1 2	oF 0? U NL 1 U ND/0? 1
Klam 245 06E 26 SE Klam 245 06E 26 SE Klam 245 06E 35 NE Klam 275 06-5E 12 SW Klam 295 09E 22 NW Klam 295 09E 23 NE Klam 295 09E 28 NE Klam 305 09E 28 NE Klam 305 09E 20 NW Klam 305 09E 09 NE Klam 305 09E 09 NE Klam 305 09E 09 NE Klam 305 09E 10 SW	330 Crescent L 341 Crescent L 346 Crescent L 1155 Miller L Klamath 727 Bear Flat 449 Lane Ranch 513 Lane Ranch 546 Lane Well Loddgpole 530 Three Cr 939 Three Cr 939 Skell Head 550 The Peninsula 573 The Peninsula 573 The Peninsula 579 The Peninsula	11-1b 11-1b 11-1b 22-2a 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b	FS FS	-		al	al 1	al 2	1 al	al 1 al	al ND,F	al oF N	al oF	oF F	al F 2	al T pF o NL N a 1 2	ND N F 2 NDL N I F	N 2 1 oF al	1 F 1 al 1	1 2 A? al F	1 F 1 al oF	F *F *al F 2 al	1 u al oF 2 TD ND	oF al 1 2 N N	2 NL F oF	F NL 1 F al 2	F NL 1 F 1	1 ND,U NL 2 1 1	oF N,U NL OF F 1 oF	F U NL 1 2 oF	oF 0? U NL 1 U ND/0? 1 - al 1
Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 24S 06E 26 SE Klam 27S 06E 21 2 SW Klam 29S 076 22 NW Klam 29S 09E 23 SE Klam 29S 09E 28 SE Klam 30S 09E 30 NW Klam 30S 09E 30 NW Klam 30S 09E 10 NW Klam 30S 09E 10 SW Klam 30S 09E 10 SW	330 Crescent L 341 Crescent L 346 Crescent L 155 Miller L 1155 Miller L 727 Bear Flat 727 Bear Flat 449 Lane Ranch 513 Lane Ranch 126 Lane Well Lodgepole 530 Three Cr 939 Three Cr N 989 Skell Head 550 The Peninsula 573 The Peninsula 579 The Peninsula 3131 Windmill Point 1308 Rocky Peninsula	11-1b 11-1b 11-1b 22-2a 22-3a 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b	FS FV FS FV FV FWS FWS FWS FWS FWS FWS FWS FV FWS FWS FV	-		al	al 1	al 2	1 al	al 1 al	al ND,F	al oF N	al oF 1 NL	oF F NL	al F NL	al T pF o NL N 1 2 1 2 1 2 1	2 ND F 2 ND L N I F 2 OF	N 2 1 oF al al	I F I al I al	1 2 A? al F al	1 F 1 al oF al	F *F *al F 2 2 al al	1 U al OF 2 TD ND oF	oF al 1 N N 2	2 1 NL F 0F 2	F 1 NL 1 F al 2 2	F NL 1 al F 1 oF	1 ND,U 2 1 1 1 1	oF oF N,U NL oF F 1 oF F	F U NL 1 2 oF	oF 0? U NL 1 U ND/0? 1 - al 1 1
Klam 245 06E 26 SE Klam 245 06E 26 SE Klam 245 06E 35 NE Klam 275 06-5E 12 SW Klam 295 09E 22 NW Klam 295 09E 23 NE Klam 295 09E 28 NE Klam 305 09E 28 NE Klam 305 09E 20 NW Klam 305 09E 09 NE Klam 305 09E 09 NE Klam 305 09E 09 NE Klam 305 09E 10 SW	330 Crescent L 341 Crescent L 346 Crescent L 1155 Miller L Klamath 727 Bear Flat 449 Lane Ranch 513 Lane Ranch 546 Lane Well Loddgpole 530 Three Cr 939 Three Cr 939 Skell Head 550 The Peninsula 573 The Peninsula 573 The Peninsula 579 The Peninsula	11-1b 11-1b 11-1b 22-2a 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b 22-2b	FS FS	-		al	al 1	al 2	1 al	al 1 al	al ND,F	al oF N	al oF 1 NL	oF F NL	al F NL	al T pF o NL N a 1 2	2 ND F 2 ND L N I F 2 OF	N 2 1 oF al	1 F 1 al 1	1 2 A? al F	1 F 1 al oF	F *F *al F 2 al	1 u al oF 2 TD ND	oF al 1 2 N N	2 NL F oF	F NL 1 F al 2	F NL 1 F 1	1 ND,U NL 2 1 1	oF N,U NL OF F 1 oF	F U NL 1 2 oF	oF 0? U NL 1 U ND/0? 1 - al 1

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05
--

Klam 30S 09E 01 SW	676 Sagebrush Point	22-2b	FWS																			*oF	oF	al	al	al	al	al	al	al	NL	NL
Klam 30S 09E 13 NE	783 Bloody Point	22-2b	FS																					2	oF	oF	oF	oF	2	2	2	1
Klam 30S 10E 17 N1/2	451 Kittridge Ranch	22-2b	PV				0?	F	F	F	F	1	1	1	22	2	2	1	2	F	oF	2	oF	1	oF	oF	oF	2	oF	2	1	1
Klam 31S 09E 31 SW	586 Little Wocus Bay	22-2b	FS																	0?	2	F	F	F	oF	1	2	1	oF	2	oF	F
Klam 31S 09E 32 NE	442 Wocus Bay	22-2b	FS	-	-	2	oF	F	F	1	F	al	al	al	al al	al	1	1	F	F	F	2	1	F	oF	oF	F	oF	F	al	al	NS
Klam 31S 09E 31 NE	454 Wocus Bay	22-2b	FS			-	al	al	al	al	al	1	1		2 F	oF	al	al	al	al	al	al	al	NL	ND	N N	·	0.	·	u .		
Klam 31S 09E 32 NE	1154 Wocus Bay	22-2b	FS				61	ai	-	a	-			2		01	cai	a	ai	cii	cii	ai	cii	INC.	ND					al	al	NS
Klam 31S 09E 32 NE	1170 Wocus Bay	22-2b	FS																											1	oF	NS
							oF	F	F	F	F	oF	F	1	2 2	1	1	1	2	1	1	oF	oF	2	1	- 1	N.I.	NU	NU			
Klam 32S 08E 16 SE Klam 32S 08E 16 SE	464 Solomon L	22-2b	FS FS				OF	F	F	F	F	OF	F		2 2. al al		1	1	2 N	1	1	OF	OF	2	1	al	NL	NL	NL	NL	NL	NL
Klam 325 08E 16 SE Klam 32S 08E 21 NW	519 Solomon L 906 Solomon L	22-2b 22-2b	FS											ai	al al	al	al	ND	IN							oF	2		2	1	oF	A?
																										0.	2	1	2		OF	A?
Klam 33S 06E 23 SE	545 Sevenmile Cr	22-1a	FS														F	al	al	al	RT	NL	RT	NL,U	U/c	NL	NL	ND	N			
Klam 33S 06E 23 SE	559 Sevenmile Cr	22-1a	FS															2	oF	ND*oF	ND,oF	N,U	U									
Klam 33S 06E 23 SE	882 Sevenmile Cr	22-1a	FS																							oF	1	al	NL	NL	NL	NL
Klam 33S 06E 26 SW	1030 Short Cr	22-1a	FS																									1	2	F	2	1
Klam 33S 07.5E 05 E1/2	710 Annie Cr	22-1a	PV																				1	1	TD	N						
Klam 33S 07.5E 05 NE	838 Annie Cr	22-1a	PV																						*oF	ND	N					
Klam 33S 07.5E 05 NE	895 Annie Cr	22-1a	PV																							*oF	2	2	TD,F	N		
Klam 33S 07.5E 05 NE	1088 Annie Cr	22-1a	PV																										*al	CG,U	CG?,0?	-
Klam 33S 07.5E 11 SW	540 Fort Klamath	22-1a	ODF												-	U	U	U	U	U	U	U	N,U	U	0?	U	NS	NS	NS	0?		
Klam 33S 07.5E 10 SE	1212 Wood R	22-1a	ODF													-			-	-	-	-		-	-	-			-		2	al
Klam 33S 07.5E 10 SW	1292 Wood R	22-1a	PV																													2
Klam 33S 11E 06 NE	503 Head of Williamson R	22-2b	FS								2	2	oF	2	1 2	1	1	1	oF	ND,0?	N											
Klam 33S 11E 06 SE	631 Head of Williamson R	22-2b	FS								-	-	0.	-			·		0.		*oF	al	al	al	GE,2	al	al	al	al	al	al	NL
Klam 32S 11E 19 SE	693 Bull Pasture	22-2b	FS																		51	0?	1	2	1	2	al	al	2	1	NL	NL
Klam 325 11E 19 SE	942 Bull Pasture	22-20 22-2b	FS																			0:		2		2	2	a: 1	al	ND	N	INL
Klam 32S 11E 19 SE Klam 32S 11E 19 SE	1219 Bull Pasture	22-2b 22-2b	FS																								2		а	ND	2	2
Klam 34S 06E 02 NE	485 Threemile Cr		FS							1	al	al	1	2	1	2	2	F	3d	2	oF	1	2	2	-	2	2	oF	2	2		oF
Klam 34S 06E 02 NE Klam 34S 06E 02 SW	485 Threemile Cr 494 Threemile Cr	22-1a 22-1a	FS						-		ai *F	oF	NL		2d 1 NL NL	2 . NL	2 NL	F NL	3a NL	2 NL	0F NI	NI	Z N	2	F	2	2	OF	2	2	F	OF
					_	-										. NL	NL	NL	NL	NL	NL	NL	N									
Klam 34S 06E 35 NW	429 Crystal Springs	22-1a	FS	A?	oF	F	al	al	al	al	al	al	al		N																	
Klam 34S 06E 35 SW	457 Crystal Springs	22-1a	FS				F	oF	F	oF	2	2	2	F	oF oF	oF	oF	2	al	2	al	al	al	NL	NL	NL	NL	NL	ND	N		
Klam 34S 06E 35 SW	569 Crystal Springs	22-1a	FS																*2	al	2	2	1	1	2	F	2	oF	oF,ND	*oF	oF	oF
Klam 34S 07E 08 SW	448 Agency Cr	22-1a	FS			U/s	U	TD	N																							
Klam 34S 07E 08 SW	452 Agency Cr (X)	22-1a	FS				U	U	U	U	GE	0?	U	U	U U	U	U	U	NS	NS	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 34S 07.5E 13 SE	624 Klamath Agency	22-1a	PV																		2	2	3	2	2	3	2	2	oF	2	2d	oF
Klam 34S 07.5E 13 SE	625 Klamath Agency	22-1a	PV																		al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 34S 07.5E 12 SE	894 Crooked Cr	22-1a	PV																							1	1	2	2	2	1	2
Klam 34S 07E 32 NW	455 Steiger Butte	22-1a	PV				2.ND	N.0?			/s																					
	455 Steiger Butte 441 Steiger Butte N	22-1a 22-1a					2,ND	N,0?	2	F		п	oF	oF	al NI	NI	NI	NI	NI	N												
Klam 34S 07E 20 NW	441 Steiger Butte N	22-1a	FS				2,ND	N,0?	2	F	/s oF	U	oF	oF	al NL F F	. NL	NL F	NL	NL F	N F	oE/s	oF	N									
Klam 34S 07E 20 NW Klam 34S 07E 32 NW	441 Steiger Butte N 511 Steiger Butte	22-1a 22-1a	FS PV				2,ND	N,0?	2	F		U			al NL F F	NL oF		NL oF	NL F	N F	oF/s	oF	N 1	2	2	2	21	a	2	NI	NI	NI
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW	441 Steiger Butte N 511 Steiger Butte 735 Steiger Butte N	22-1a 22-1a 22-1a	FS PV FS				2,ND	N,0?	2	F		U			al NL F F				NL F		oF/s	oF	N 1	2	2	al F	al 2	al 2	al 2	NL F	NL	NL 1
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW	441 Steiger Butte N 511 Steiger Butte 735 Steiger Butte N 922 Steiger Butte N	22-1a 22-1a 22-1a 22-1a	FS PV FS FS								oF		al	al	FF	oF	F	oF	F	F			1		2	F	2	al 2	2	NL F	NL oF	NL 1
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2	441 Steiger Butte N 511 Steiger Butte 735 Steiger Butte N 922 Steiger Butte N 456 Williamson R	22-1a 22-1a 22-1a 22-1a 22-2b	FS PV FS FS OPR			-	2,ND RT	N,O? U	2 U	F		U		al	al NL F F 1 1				NL F 1d	F 2	2	0F	1	1	1	F	2 F	2	al 2 F	NL F F		NL 1 F
Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE	441 Steiger Butte N 511 Steiger Butte 735 Steiger Butte N 922 Steiger Butte N 456 Williamson R 588 Cave Mt	22-1a 22-1a 22-1a 22-1a 22-2b 22-2c	FS PV FS FS OPR FS			-					oF		al	al	FF	oF	F	oF	F	F			1		2 1 F	F	2 F ND	2 1 N	2 F	F		NL 1 F
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE Klam 34S 07E 25 NE	441 Steiger Butte N 511 Steiger Butte 735 Steiger Butte N 922 Steiger Butte N 456 Williamson R 588 Cave Mt 935 Cave Mt	22-1a 22-1a 22-1a 22-1a 22-2b 22-2c 22-2c 22-2c	FS PV FS FS OPR FS FS			-					oF		al	al	FF	oF	F	oF	F	F 2	2		1	1	1	F	2 F	2	2	F F N	0F 1	1 F
Klam 345 07E 20 NW Klam 345 07E 32 NW Klam 345 07E 20 NW Klam 345 07E 20 NW Klam 345 07E 10 NU Klam 345 07E 20 NW Klam 345 07E 10 L1/2 Klam 345 07E 25 SE Klam 345 07E 25 NE Klam 345 07E 25 NE	441 Steiger Butte N 511 Steiger Butte 735 Steiger Butte N 922 Steiger Butte N 456 Williamson R 588 Cave Mt 935 Cave Mt 1129 Cave Mt	22-1a 22-1a 22-1a 22-1a 22-2b 22-2c 22-2c 22-2c 22-2c	FS PV FS FS OPR FS FS FS			-					oF		al	al	FF	oF	F	oF	F	F 2	2		1	1	1	F	2 F ND	2 1 N	2 F	F	oF 1 al	1 F al
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE Klam 34S 07E 25 NE Klam 34S 07E 25 NE Klam 34S 07E 25 NE	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 456 Williamson R 588 Cave Mt 935 Cave Mt 129 Cave Mt 1218 Cave Mt	22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c	FS PV FS FS OPR FS FS FS FS			-					oF		al	al	FF	oF	F	oF	F	F 2	2		1	1	1	F	2 F ND	2 1 N	2 F 1,ND	F F N *F	0F 1	1 F
Klam 34S 07E 20 NW Klam 34S 07E 25 NE Klam 34S 07E 35 NW	441 Steiger Butte N 511 Steiger Butte N 735 Steiger Butte N 922 Steiger Butte N 456 Williamson R 588 Cave Mt 935 Cave Mt 1229 Cave Mt 1218 Cave Mt 1218 Cave Mt 1011 Chiloquin Helipad	22-1a 22-1a 22-1a 22-2b 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c	FS PV FS FS OPR FS FS FS FS FS			-					oF		al	al	FF	oF	F	oF	F 1d -	F 2	2	2	1 0F	1	1 F	F oF 2	2 F ND *1	2 1 N	2 F	F F N	oF 1 al	1 F al
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE Klam 34S 07E 25 SE Klam 34S 07E 25 NE	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 456 Willamson R 588 Cave Mt 935 Cave Mt 129 Cave Mt 1218 Cave Mt 511 Childright 555 Copeland Caryon	22-1a 22-1a 22-1a 22-2b 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-1a 22-1a	FS PV FS FS OPR FS FS FS FS FS FS FS			-					oF		al	al	FF	oF	F	oF	F	F 2	2		1	1	1	F oF 2 ND	2 F ND	2 1 N	2 F 1,ND 2	F F N *F	oF 1 al	1 F al
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 NE Klam 34S 07E 33 NW Klam 34S 07.5E 01 NE Klam 34S 07.5E 01 NW	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 926 Williamson R 588 Cave Mt 935 Cave Mt 1218 Cave Mt 1011 Chiloquin Helipad 555 Copeland Caryon 681 Copeland Caryon	22-1a 22-1a 22-1a 22-2b 22-2c 22-2c 22-2c 22-2c 22-2c 22-1a 22-1a	FS PV FS FS FS FS FS FS FS FS FS FS								oF		al	al	FF	oF	F	oF	F 1d -	F 2	2	2	1 0F	1	1 F	F OF 2 ND OF	2 F ND *1 N 1	2 1 N 2/s 1 F	2 F 1,ND 2 2	F F N *F 2	oF 1 al 1d 1	1 F al oF 1 F
Klam 345 07E 20 NW Klam 345 07E 120 NW Klam 345 07E 120 NW Klam 345 07E 120 NW Klam 345 07E 25 SE Klam 345 07E 25 NE Klam 345 07E 50 NW Klam 345 07E 55 NI Klam 345 07.5E 01 NE Klam 345 07.5E 51 NW Klam 345 07.5E 51 NW	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 922 Steiger Butte N 935 Gave Mt 1129 Cave Mt 1218 Cave Mt 1011 Chiloguin Helipad 555 Copeland Canyon 810 Copeland Canyon 702 Fort Cr	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a	FS PV FS FS FS FS FS FS FS FS FS FS FS FS								0F		al *oF	al 1	FF	oF	F	0F 2 1	F 1d - 2	F 2 0? F	2 2 0F	2 1 oF	1 oF al	1 1 al 2	1 F al	F OF 2 ND OF 2	2 F ND *1 N 1 3	2 1 N 2/s 1 F oF	2 F 1,ND 2 2 2	F F N *F 2 1 2	oF 1 al 1d 1 1 2	1 F oF 1 F oF
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE Klam 34S 07E 25 NE	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 456 Williamson R 588 Cave Mt 935 Cave Mt 129 Cave Mt 1218 Cave Mt 1211 Childquin Helipad 555 Copeland Canyon 881 Copeland Canyon 702 Fort Cr 495 Sprague R	22-1a 22-1a 22-1a 22-2b 22-2c 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	FS PV FS PV PV			-					oF		al	al	FF	oF	F	0F 2 1 al	F 1d - 2 al	F 2 0? F al	2 2 0F	2 1 oF NL	1 0F al 2 NL	1 1 al 2 NL	1 F al 1 NL	F oF 2 ND oF 2 NL	2 F ND *1 N 1 3 NL	2 1 N 2/s 1 F OF NL	2 F 1,ND 2 2 2 NL	F F ×F 2 1 2 NL	oF 1 1d 1d 1 1 2 NL	1 F oF 1 F oF NL
Klam 345 07E 20 NW Klam 345 07E 120 NW Klam 345 07E 120 NW Klam 345 07E 120 NW Klam 345 07E 25 SE Klam 345 07E 25 NE Klam 345 07E 50 NW Klam 345 07E 55 NI Klam 345 07.5E 01 NE Klam 345 07.5E 51 NW Klam 345 07.5E 51 NW	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 922 Steiger Butte N 935 Gave Mt 1129 Cave Mt 1218 Cave Mt 1011 Chiloguin Helipad 555 Copeland Canyon 810 Copeland Canyon 702 Fort Cr	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a	FS PV FS FS FS FS FS FS FS FS FS FS FS FS			-					0F		al *oF	al 1 2	FF	oF	F	0F 2 1	F 1d - 2	F 2 0? F	2 2 0F	2 1 oF	1 oF al	1 1 al 2	1 F al	F OF 2 ND OF 2	2 F ND *1 N 1 3	2 1 N 2/s 1 F oF	2 F 1,ND 2 2 2	F F N *F 2 1 2	oF 1 al 1d 1 1 2	1 F oF 1 F oF
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE Klam 34S 07E 25 NE	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 456 Williamson R 588 Cave Mt 935 Cave Mt 129 Cave Mt 1218 Cave Mt 1211 Childquin Helipad 555 Copeland Canyon 881 Copeland Canyon 702 Fort Cr 495 Sprague R	22-1a 22-1a 22-1a 22-2b 22-2c 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	FS PV FS PV PV			-					oF U al	U 1	al *oF	al 1 2	F F 1 1 F 1	oF 1 F	F 1 -	0F 2 1 al	F 1d - 2 al al	F 2 0? F al	2 2 0F	2 1 oF NL	1 0F al 2 NL	1 1 al 2 NL	1 F al 1 NL	F oF 2 ND oF 2 NL	2 F ND *1 N 1 3 NL	2 1 N 2/s 1 F OF NL	2 F 1,ND 2 2 2 NL	F F ×F 2 1 2 NL	oF 1 1d 1d 1 1 2 NL	1 F oF 1 F oF NL
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 NE Klam 34S 07E 33 NW Klam 34S 07.5E 01 NE Klam 34S 07.5E 01 NW Klam 34S 07.5E 01 NW Klam 34S 07.5E 03 NE Klam 34S 09E 30 NE	441 Steiger Butte 511 Steiger Butte 735 Steiger Butte N 922 Steiger Butte N 945 Williamson R 958 Cave Mt 129 Cave Mt 1121 Cave Mt 111 Chicquin Helpad 555 Copeland Canyon 702 Fort Cr 499 Sprague R 490 Sprague R	22-1a 22-1a 22-1a 22-1a 22-2b 22-2c 22-2c 22-2c 22-2c 22-1a 22-1a 22-1a 22-1a 22-1a 22-2c 22-2c	FS PV FS FS FS FS FS FS FS FS FS FS PV PV			-					oF	U 1	al *oF	al 1 2	F F 1 1 F 1	oF 1 F	F 1 -	oF 2 1 al	F 1d - 2 al al	F 2 0? F al al	2 2 oF NL NL	2 1 oF NL NL	1 oF al 2 NL NL	1 1 al 2 NL NL	1 F al 1 NL NL	F oF 2 ND oF 2 NL NL	2 F ND *1 1 3 NL NL	2 1 N 2/s 1 F OF NL NL	2 F 1,ND 2 2 2 NL NL	F F *F 2 1 2 NL NL	oF 1 1d 1d 1 1 2 NL NL	1 F al oF 1 F oF NL NL
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE Klam 34S 07E 25 NE Klam 34S 07.5E 01 NE Klam 34S 07.5E 01 NE Klam 34S 07E 20 NW Klam 34S 09E 30 NE Klam 34S 09E 30 NE Klam 34S 09E 19 SE Klam 34S 09E 19 SE	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 456 Williamson R 588 Cave Mt 935 Cave Mt 1129 Cave Mt 1218 Cave Mt 1211 Chloquin Helipad 555 Copeland Canyon 881 Copeland Canyon 702 Fort Cr 490 Sprague R 556 Sprague R 128 Sprague R 128 Sprague R	22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-2a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c	FS PV FS FS FS FS FS FS FS FS FS FS PV PV PV PV			- -					oF	U 1	al *oF	al 1 2	F F 1 1 F 1	oF 1 F	F 1 -	oF 2 1 al	F 1d - 2 al al	F 2 0? F al al	2 2 oF NL NL	2 1 oF NL NL	1 oF al 2 NL NL	1 1 al 2 NL NL 2	1 F al 1 NL NL	F oF 2 ND oF 2 NL NL	2 F ND *1 1 3 NL NL	2 1 N 2/s 1 F OF NL NL	2 F 1,ND 2 2 2 NL NL	F F *F 2 1 2 NL NL	oF 1 1d 1d 1 1 2 NL NL	1 F al oF 1 F oF NL NL
Klam 34S 07E 20 NW Klam 34S 07E 32 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE Klam 34S 07E 25 NE Klam 34S 07.5E 01 NE Klam 34S 07.5E 01 NE Klam 34S 07E 20 NW Klam 34S 09E 30 NE Klam 34S 09E 30 NE Klam 34S 09E 19 SE Klam 34S 09E 19 SE	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 935 Steiger Butte N 456 Willamson R 588 Cave Mt 1129 Cave Mt 1218 Cave Mt 1218 Cave Mt 1219 Cave Mt 555 Copeland Caryon 810 Copeland Caryon 702 Fort Cr 490 Sprague R 556 Sprague R 568 Sprague R 1288 Sprague R 1284 Sprague R 1290 Sprague R 1291 Calone Springs N	22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c	FS PV FS FS FS FS FS FS FS FS FS PV PV PV PV PV FS		U	- oF	RT				oF	U 1 al	al *oF 2 al	al 1 2 al al	F F 1 1 F 1	oF 1 F	F 1 - 1 al	oF 2 1 al	F 1d - 2 al al 2	F 2 0? F al al oF	2 2 oF NL NL 2	2 1 oF NL NL 2	1 oF al 2 NL F	1 1 al 2 NL NL	1 F al 1 NL 2	F oF 2 ND oF 2 NL NL	2 F ND *1 1 3 NL NL	2 1 N 2/s 1 F OF NL NL	2 F 1,ND 2 2 2 NL NL	F F *F 2 1 2 NL NL	oF 1 1d 1 1 1 2 NL NL 1	1 F oF 1 F NL NL NL 1
Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE Klam 34S 07E 25 NE Klam 34S 07E 50 NW Klam 34S 07E 50 NE Klam 34S 07E 30 NE Klam 34S 09E 10 SE Klam 35S 06E 11 NW	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 922 Steiger Butte N 935 Gave Butte N 935 Cave Mt 1129 Cave Mt 1218 Cave Mt 1211 Chave Mt 1213 Cave Mt 1214 Cave Mt 1011 Chiloquin Helipad 555 Copeland Canyon 881 Copeland Canyon 702 Fort Cr 490 Sprague R 490 Sprague R 1288 Sprague R 1288 Sprague R 1288 Sprague R 1280 Sprague R 1280 Sprague R 1281 Sprague R 1282 Sprague R 1283 Sprague R 1284 Sprague R 1285 Sprague R 1280 Sprague R 1280 Sprague R 1280 Spragu	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-1a 22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c	FS PV FS FS FS FS FS FS FS FS PV PV PV PV FS FS		U	oF	RT		U	U	oF U al	U 1 al	al *oF 2 al al	al 1 2 al al	F F 1 1 F 1 al al al al	oF 1 F al	F 1 - al	oF 2 1 al 1/s al	F 1d - 2 al al 2 al	F 2 0? F al al oF al	2 2 oF NL NL 2 NL	2 1 oF NL 2 NL	1 oF al 2 NL F NL	1 1 2 NL 2 NL 2 NL	1 F al NL NL 2 N	F oF 2 ND oF 2 NL NL 1	2 F ND *1 N 1 3 NL NL oF al	2 1 N 2/s 1 F oF NL NL oF	2 F 1,ND 2 2 2 NL NL oF al	F F N *F 2 1 2 NL NL oF al	oF 1 1 1 1 1 2 NL 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 1 3 1 1 3 1	1 F oF F oF NL NL NL NL NL NL
Klam 345 07E 20 NW Klam 345 07E 10 NV Klam 345 07E 10 L1/2 Klam 345 07E 25 SE Klam 345 07E 25 NE Klam 345 07E 50 NW Klam 345 07.5E 01 NF Klam 345 07.5E 30 NE Klam 345 09E 30 NE Klam 345 09E 19 SE Klam 345 09E 19 SE Klam 345 09E 19 SE Klam 355 06E 11 NW Klam 355 06E 11 NW	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 922 Steiger Butte N 935 Gave Mt 935 Cave Mt 1129 Cave Mt 1218 Cave Mt 1312 Steiger Butte N 935 Cave Mt 1129 Cave Mt 1312 Cave Mt 1312 Cave Mt 1312 Cave Mt 935 Copeland Canyon 702 Fort Cr 490 Sprague R 939 Sprague R 1288 Sprague R 1288 Sprague R 1288 Sprague R 1280 Sprague R	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c	FS PV FS FS FS FS FS FS FS FS FS PV PV PV PV FS FS FS FS		U	- oF al/s	RT		U	U	oF U al	U 1 al	al *oF 2 al al	al 1 2 al F	F F 1 1 F 1 al al al al	oF 1 F al	F 1 - al	oF 2 1 al 1/s al	F 1d - 2 al al 2 al al al al al	F 2 0? F al al oF al	2 2 oF NL NL 2 NL	2 1 oF NL 2 NL	1 oF al 2 NL F NL al	1 1 2 NL 2 NL 2 NL al	1 F al NL NL 2 N	F oF 2 ND oF 2 NL NL 1	2 F ND *1 1 3 NL NL oF	2 1 N 2/s 1 F OF NL OF al	2 F 1,ND 2 2 2 NL NL oF	F F N *F 2 1 2 NL NL OF	oF 1 1d 1 1 1 2 NL NL 1	1 F oF 1 F NL NL NL 1
Klam 34S 07E 20 NW Klam 34S 07E 10 II/2 Klam 34S 07E 10 II/2 Klam 34S 07E 10 II/2 Klam 34S 07E 25 SE Klam 34S 07E 25 NE Klam 34S 07E 25 NE Klam 34S 07E 50 NE Klam 34S 07.5E 01 NE Klam 34S 09E 30 NE Klam 34S 09E 30 NE Klam 34S 09E 19 SE Klam 34S 09E 19 SE Klam 35S 06E 11 NW Klam 35S 06E 11 NW Klam 35S 06E 11 SW	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 935 Steiger Butte N 456 Williamson R 588 Cave Mt 1129 Cave Mt 1218 Cave Mt 1211 Chilamson R 555 Copeland Canyon 881 Copeland Canyon 811 Copeland Canyon 702 Fort Cr 499 Sprague R 565 Sprague R 128 Sprague R 427 Malone Springs N 467 Malone Springs N 477 <malone n<="" springs="" td=""> 477<malone n<="" springs="" td=""> 477<malone n<="" springs="" td=""> 477<malone n<="" springs="" td=""></malone></malone></malone></malone>	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c	FS PV FS FS FS FS FS FS FS FS FS FS FS FS FS		U		RT		U	U	oF U al	U 1 al	al *oF 2 al al	al 1 2 al F	F F 1 1 F 1 al al al al 3 F al al	oF 1 F al al al 1	F 1 - 1 al al al F	oF 2 1 al al 1/s al al 1/s	F 1d - 2 al al 2 al al al 2 2	F 2 0? F al al oF al al al 1	2 2 oF NL 2 NL al 1	2 1 oF NL 2 NL al 1	1 oF al 2 NL F NL al oF	1 1 2 NL 2 NL al TD	1 F al 1 NL 2 N al N	F oF 2 ND oF 2 NL NL 1 al	2 F ND *1 N 1 3 NL NL oF al 2	2 1 N 2/s 1 F OF NL NL oF al 1	2 F 1,ND 2 2 NL NL oF al 3d	F F N *F 2 1 2 NL NL oF al 2	oF 1 1 1 1 1 2 NL 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 1 3 1 1 3 1	1 F oF F oF NL NL NL NL NL NL
Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 25 NE Klam 34S 09E 30 NE Klam 34S 09E 19 SE Klam 34S 09E 19 SE Klam 34S 09E 19 SE Klam 35S 06E 11 NW Klam 35S 06E 03 SE Klam 35S 06E 03 SE	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 456 Willamson R 588 Cave Mt 935 Cave Mt 129 Cave Mt 1218 Cave Mt 1211 Chloquin Helipad 555 Copeland Canyon 881 Copeland Canyon 702 Fort Cr 490 Sprague R 555 Sprague R 128 Sprague R 129 Cave Mt 1210 Chlone Springs N 427 Malone Springs N 977 Malone Springs N 977 Malone Springs N 977 Malone Springs N 977 Malone Springs N 228 Rock Cr	22-1a 22-1a 22-1a 22-2a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-2c	FS PV FS FS FS FS FS FS FS FS FS FS FS FS FS		U -		RT		U	U	oF U al	U 1 al	al *oF 2 al al	al 1 2 al F	F F 1 1 F 1 al al al al 3 F	oF 1 F al al al 1	F 1 - al	oF 2 1 al 1/s al	F 1d - 2 al al 2 al al al al al	F 2 0? F al al oF al	2 2 oF NL NL 2 NL	2 1 oF NL 2 NL	1 oF al 2 NL F NL al	1 1 2 NL 2 NL 2 NL al	1 F al NL NL 2 N al	F oF 2 ND oF 2 NL NL 1	2 F ND *1 N 1 3 NL NL oF al	2 1 N 2/s 1 F OF NL OF al	2 F 1,ND 2 2 2 NL NL oF al 3d	F F N *F 2 1 2 NL NL oF al 2 N	oF 1 1 1 1 1 2 NL 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 1 3 1 1 3 1	1 F oF F oF NL NL NL NL NL NL
Klam 345 07E 20 NW Klam 345 07E 10 NP Klam 345 07E 10 L1/2 Klam 345 07E 25 SE Klam 345 07E 25 NE Klam 345 07E 25 NE Klam 345 07E 50 NE Klam 345 07.5E 01 NK Klam 345 09E 30 NE Klam 345 09E 10 SE Klam 345 09E 10 SE Klam 345 09E 11 SE Klam 355 06E 11 NW Klam 355 06E 11 SW Klam 355 06E 02 SW Klam 355 06E 02 SW Klam 355 06E 02 SW	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 922 Steiger Butte N 935 Steiger Butte N 935 Steiger Butte N 935 Steiger Butte N 935 Cave Mt 1129 Cave Mt 1128 Cave Mt 1129 Cave Mt 1312 Cave Mt 1312 Cave Mt 1312 Cave Mt 1312 Cave Mt 132 Cave Mt 132 Cave Mt 131 Chiloguin Helipad 555 Copeland Canyon 702 Fort Cr 490 Sprague R 493 Sprague R 128 Sprague R 128 Sprague R 128 Sprague R 128 Sprague R 1297 Malone Springs N 428 Rock Cr 1083 Rock Cr	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-2a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-22-22-22 22-22-22-22-22-22-22-22-22-	FS PV FS FS FS FS FS FS FS FS FS FS FS FS FS		-	al/s	RT OF - al	U al F al	U al F al	U al 2 al	oF U al al al al 2	U 1 al	al *oF 2 al al	al 1 2 al F	F F 1 1 F 1 al al al al 3 F al al	oF 1 F al al al al al	F 1 - al al F al	oF 2 1 al al 1/s al al 1/s	F 1d - 2 al al al al al al al al al al al al al	F 2 0? F al al oF al al al 1	2 2 oF NL 2 NL al 1	2 1 oF NL 2 NL al 1	1 oF al 2 NL F NL al oF	1 1 2 NL 2 NL 2 NL al TD oF	1 F al NL 2 N al N 2	F oF 2 ND oF 2 NL NL 1 al	2 F ND *1 1 3 NL NL oF al 2 2	2 1 N 2/s 1 F OF NL NL oF al 1 1	2 F 1,ND 2 2 2 NL NL oF al 3d TD,oF *al	F F P P P P P P P P P P P P P P P P P P	oF 1 1d 1 1 1 2 NL NL NL 1 2	1 F OF F OF NL NL 1 NL oF F
Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE Klam 34S 07E 25 NE Klam 34S 07E 25 NE Klam 34S 07E 55 NE Klam 34S 07E 50 NE Klam 34S 09E 30 NE Klam 34S 09E 19 SE Klam 34S 09E 19 SE Klam 35S 06E 11 NW Klam 35S 06E 11 NW Klam 35S 06E 11 NW Klam 35S 06E 02 SW Klam 35S 06E 02 SW Klam 35S 06E 02 SW Klam 35S 06E 02 W1/2 Klam 35S 06E 02 W1/2	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 935 Steiger Butte N 456 Williamson R 588 Cave Mt 1129 Cave Mt 1218 Cave Mt 1211 Childmanon R 555 Copeland Canyon 881 Copeland Canyon 811 Copeland Canyon 821 Copeland Canyon 825 Sprague R 430 Sprague R 430 Sprague R 1288 Sprague R 427 <malone n<="" springs="" td=""> 427<malone n<="" springs="" td=""> 428 Rock Cr 528 Rock Cr 528 Rock Cr 528 Malone Springs S</malone></malone>	22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	FS PV FS FS FS FS FS FS FS FS FS FS FS FS FS		- U	al/s U	RT OF - al al	U al F al	U al F al	U al 2 al	oF U al F al al 2	U 1 al al 1 1	al *oF al al al 1	al 1 2 al F al	F F 1 1 F 1 al al al al al al al al *a *a 1 1	oF 1 F al al al al al al oF	F 1 - 1 al al F al 2	oF 2 1 al al 1/s al al al al al al f	F 1d - 2 al al 2 al al 2 al al 2 al al 2 al 2	F O? F al al oF al al al 1 al 1	2 2 oF NL 2 NL al 1 al 5	2 1 oF NL 2 NL al 1 al	1 oF al NL F NL al oF al 1	1 1 2 NL 2 NL al TD oF 2	1 F al 1 NL 2 N al N 2 3	F oF 2 ND oF 2 NL NL 1 al 2	2 F ND *1 NL NL oF al 2 2	2 1 N 2/s 1 F oF NL NL oF al 1 1 2	2 F 1,ND 2 2 2 2 NL NL 0F al 3d TD,oF *al	F F 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	oF 1 al 1d 1 1 2 NL NL 1 3 4 F 2 2	1 F 0F 1 F 0F NL NL NL NL 0F F 2
Klam 345 07E 20 NW Klam 345 07E 10 NV Klam 345 07E 10 L1/2 Klam 345 07E 25 SE Klam 345 07E 25 NE Klam 345 07E 30 NE Klam 345 07E 30 NE Klam 345 09E 10 SE Klam 345 09E 19 SE Klam 355 06E 11 NW Klam 355 06E 13 SV Klam 355 06E 03 SE Klam 355 06E 02 SW Klam 355 06E 02 SW Klam 355 06E 14 SW Klam 355 06E 14 SW	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 922 Steiger Butte N 945 Williamson R 958 Cave Mt 912 Cave Mt 1129 Cave Mt 1218 Cave Mt 1312 Cave Mt 1313 Cave Mt 1312 Cave Mt 1313 Cave Mt 1314 Cave Mt 1312 Gave Mt 1312 Cave Mt 128 Cave Mt 128 Sorague R 128 Sorague R 128 Cave Cave Springs N 428 Rock Cr 1083 Rock Cr 10	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a	FS PV FS FS FS FS FS FS FS FS FS FS FS FS FS		-	al/s	RT OF - al	U al F al	U al F al	U al 2 al	oF U al al al al 2	U 1 al al 1 1 al	al *oF 2 al al al al 1 1 al	al 1 2 al F al I al	F F 1 1 al a	F al al al al al al al al al al al al al	F 1 al al al al Al al Al Al Al Al Al Al Al Al Al Al Al Al Al	oF 2 1 al al 1/s al al 1 al F NL	F 1d - 2 al al al al al al al al al al al al al	F O? F al al al al al al al al al al al al al	2 2 oF NL 2 NL al 1 al F NL	2 1 oF NL 2 NL al 1 al 1 NL	1 oF al 2 NL F NL al oF al 1 NL	1 1 2 NL 2 NL al TD oF 2 NL	1 F al 1 NL 2 N al 3 NL	F oF 2 ND oF 2 NL 1 al 1 2 NL	2 F ND *1 N 1 3 NL NL oF al 2 2 NL	2 1 N 2/s 1 F OF NL NL 0F al 1 1 2 NL	2 F 1,ND 2 2 NL NL oF al 3d TD,oF *al 1 NL	F F 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	oF 1 1d 1 1 1 2 NL NL 1 2 8 4 F 2 2 NL	1 F oF 1 F OF NL NL 1 NL oF F 2 NL
Klam 345 07E 20 NW Klam 345 07E 32 NW Klam 345 07E 20 NW Klam 345 07E 20 NW Klam 345 07E 10 II/2 Klam 345 07E 10 E1/2 Klam 345 07E 25 SE Klam 345 07E 25 NE Klam 345 07E 25 NE Klam 345 07E 55 NE Klam 345 07E 55 NE Klam 345 07.5E 01 NE Klam 345 09E 30 NE Klam 345 09E 10 SE Klam 345 09E 10 SE Klam 345 09E 11 SE Klam 355 06E 11 NW Klam 355 06E 11 SW Klam 355 06E 02 SW Klam 355 06E 20 SW Klam 355 06E 14 SW Klam 355 06E 14 SW Klam 355 06E 15 SE Klam 355 06E 15 SE	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 935 Steiger Butte N 945 Williamson R 588 Cave Mt 935 Cave Mt 1129 Cave Mt 1218 Cave Mt 1312 Cave Mt 131 Chiloguin Helipad 555 Copeland Canyon 88 Sprague R 490 Sprague R 426 Sprague R 427 Malone Springs N 427 Malone Springs N 428 Rock Cr 528 Rock Cr 428 Malone Springs S	22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	FS FS FS FS FS FS FS FS FS FS		- U	al/s U	RT OF - al al	U al F al	U al F al	U al 2 al	oF U al F al al 2	U 1 al al 1 1	al *oF al al al 1	al 1 2 al F al I al	F F 1 1 F 1 al al al al al al al al *a *a 1 1	oF 1 F al al al al al al oF	F 1 - 1 al al F al 2	oF 2 1 al al 1/s al al al al al al f	F 1d - 2 al al 2 al al 2 al al 2 al al 2 al 2	F O? F al al oF al al al 1 al 1 NL al	2 2 oF NL 2 NL al 1 al F NL NL	2 1 oF NL 2 NL al 1 al	1 oF al 2 NL F NL al oF al 1 NL NL	1 1 2 NL 2 NL al TD oF 2 NL NL	1 F al 1 NL 2 NL 2 NL 3 NL NL	F oF 2 ND oF 2 NL NL 1 al 2	2 F ND *1 3 NL NL oF 2 2 NL NL	2 1 N 2/s 1 F OF NL NL oF al 1 1 2 NL NL NL NL NL NL NL NL NL NL	2 F 1,ND 2 2 NL NL oF al 3d TD,oF *al 1 NL	F F N *F 2 1 2 NL NL NL 2 0 F 2 NL NL NL	oF 1 1d 1 1 1 2 NL 1 1 1 2 8 F 2 2 NL 1	1 F oF 1 F NL NL NL NL 0 F F 2 NL NL
Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 10 E1/2 Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE Klam 34S 07E 25 NE Klam 34S 07E 10 NE Klam 34S 09E 19 SE Klam 35S 06E 11 SW Klam 35S 06E 11 SW Klam 35S 06E 14 NW Klam 35S 06E 14 SW Klam 35S 06E 14 SW K	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 935 Steiger Butte N 456 Williamson R 588 Cave Mt 1129 Cave Mt 1218 Cave Mt 1211 Chilliamson R 551 Copeland Canyon 881 Copeland Canyon 881 Copeland Canyon 881 Copeland Canyon 702 Fort Cr 489 Sprague R 1288 Sprague R 1288 Sprague R 1280 Sprague R 1280 Sprague R 1281 Sprague R 1280 Sprague R 1281 Sprague R 1282 Sprague R 1283 Sprague R 1284 Sprague R 1285 Sprague R 1286 Sprague R 1287 Malone Springs N 977 Malone Springs S 128	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	FS PV FS FS OPR FS FS FS	 	- U U	al/s U U	RT OF - al al	U al F al	U al F al	U al 2 al	oF U al F al al 2	U 1 al al 1 1 al	al *oF 2 al al al al 1 1 al	al 1 2 al F al 1 al al al	F F I I al al al al al al al al al al al al al al al al al al	OF 1 al al al al al al oF al al al	F 1 al al F al 2 NL al	oF 2 1 al al al al al al al al al al F NL al	F 1d - 2 al al 2 al al al 2 al al al 2 al al 2 al al 2 al al 2 al al 2 al 2 al 2 al 3 al 2 al 3 al 3	F 2 O? F al al oF al al al al al al NL al NL al soft S	2 oF NL NL al 1 al F NL F	2 1 NL NL 2 NL al 1 al 1 NL 2	1 oF al 2 NL F NL al oF al 1 NL 2	1 1 2 NL 2 NL al TD oF 2 NL NL 1	1 F al 1 NL 2 NL 2 3 NL 2 2	F OF 2 ND OF 2 NL NL 1 1 2 NL 1 1	2 F ND *1 3 NL NL oF 2 2 NL 2 2 2 NL 2	2 1 N 2/s 1 F oF NL 0F al 1 1 2 NL 2	2 F 1,ND 2 2 2 2 NL NL oF al 3d TD,oF *al 1 NL NL 2	F F N *F 2 1 2 NL NL oF al 2 NL NL 2 NL 2	oF 1 1 1 1 1 2 NL NL 1 1 2 2 2 NL NL NL NL 2 2	1 F oF 1 F OF NL NL NL NL OF F 2 NL NL OF
Klam 345 07E 20 NW Klam 345 07E 10 II/2 Klam 345 07E 25 SE Klam 345 07E 25 NE Klam 345 07E 25 NE Klam 345 07E 25 NE Klam 345 07E 30 NE Klam 345 07.5E 01 NW Klam 345 09E 30 NE Klam 345 09E 10 SE Klam 345 09E 10 SE Klam 345 09E 10 SE Klam 355 06E 11 SW Klam 355 06E 02 SW Klam 355 06E 02 SW Klam 355 06E 02 SW Klam 355 06E 14 SW Klam 355 06E 14 SW Klam 355 06E 14 SW Klam 355 06E 26 NE Klam 355 06E 26 NE <	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 935 Steiger Butte N 456 Willamson R 588 Cave Mt 1129 Cave Mt 1128 Cave Mt 1129 Cave Mt 1128 Cave Mt 1129 Cave Mt 1218 Cave Mt 1219 Cave Mt 1210 Chiloguin Helipad 555 Copeland Canyon 811 Copeland Canyon 702 Fort Cr 490 Sprague R 566 Sprague R 1288 Sprague R 427 Malone Springs N 467 Malone Springs N 428 Rock Cr 528 Rock Cr 1083 Rock Cr 425 Malone Springs S 453 Malone Springs S 453 Malone Springs S 453 Salones Srings S 428 <td>22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a</td> <td>FS PV PS FS FS FS</td> <td></td> <td>- U U</td> <td>al/s U</td> <td>RT OF - al al</td> <td>U al F al</td> <td>U al F al</td> <td>U al 2 al</td> <td>oF U al F al al 2</td> <td>U 1 al al 1 1 al</td> <td>al *oF 2 al al al al 1 1 al</td> <td>al 1 2 al F al 1 al al al</td> <td>F F 1 1 al a</td> <td>F al al al al al al al al al al al al al</td> <td>F 1 al al al al Al al Al Al Al Al Al Al Al Al Al Al Al Al Al</td> <td>oF 2 1 al al al al al al al al al al f NL al 2</td> <td>F 1d 2 2 al al 2 al al 2 al 2 al 2 NL al 3 al 2 al 3 al 2 al 3 al 3 al 3 al 3</td> <td>F O? F al al oF al al al 1 al 1 NL al</td> <td>2 2 oF NL 2 NL al 1 al F NL NL</td> <td>2 1 oF NL 2 NL al 1 al 1 NL</td> <td>1 oF al 2 NL F NL al oF al 1 NL NL</td> <td>1 1 2 NL 2 NL al TD oF 2 NL NL</td> <td>1 F al 1 NL 2 NL 2 NL 3 NL NL</td> <td>F oF 2 ND oF 2 NL 1 al 1 2 NL</td> <td>2 F ND *1 3 NL NL oF 2 2 NL NL</td> <td>2 1 N 2/s 1 F OF NL NL oF al 1 1 2 NL NL NL NL NL NL NL NL NL NL</td> <td>2 F 1,ND 2 2 NL NL oF al 3d TD,oF *al 1 NL</td> <td>F F N *F 2 1 2 NL NL NL 2 0 F 2 NL NL NL</td> <td>oF 1 1d 1 1 1 2 NL 1 1 1 2 8 F 2 2 NL 1</td> <td>1 F oF 1 F NL NL NL NL 0 F F 2 NL NL</td>	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a	FS PV PS FS FS FS		- U U	al/s U	RT OF - al al	U al F al	U al F al	U al 2 al	oF U al F al al 2	U 1 al al 1 1 al	al *oF 2 al al al al 1 1 al	al 1 2 al F al 1 al al al	F F 1 1 al a	F al al al al al al al al al al al al al	F 1 al al al al Al al Al Al Al Al Al Al Al Al Al Al Al Al Al	oF 2 1 al al al al al al al al al al f NL al 2	F 1d 2 2 al al 2 al al 2 al 2 al 2 NL al 3 al 2 al 3 al 2 al 3 al 3 al 3 al 3	F O? F al al oF al al al 1 al 1 NL al	2 2 oF NL 2 NL al 1 al F NL NL	2 1 oF NL 2 NL al 1 al 1 NL	1 oF al 2 NL F NL al oF al 1 NL NL	1 1 2 NL 2 NL al TD oF 2 NL NL	1 F al 1 NL 2 NL 2 NL 3 NL NL	F oF 2 ND oF 2 NL 1 al 1 2 NL	2 F ND *1 3 NL NL oF 2 2 NL NL	2 1 N 2/s 1 F OF NL NL oF al 1 1 2 NL NL NL NL NL NL NL NL NL NL	2 F 1,ND 2 2 NL NL oF al 3d TD,oF *al 1 NL	F F N *F 2 1 2 NL NL NL 2 0 F 2 NL NL NL	oF 1 1d 1 1 1 2 NL 1 1 1 2 8 F 2 2 NL 1	1 F oF 1 F NL NL NL NL 0 F F 2 NL NL
Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 10 E1/2 Klam 34S 07E 25 SE Klam 34S 07E 25 NE Klam 34S 07E 25 NE Klam 34S 07E 55 NE Klam 34S 07E 50 NE Klam 34S 09E 30 NE Klam 34S 09E 19 SE Klam 35S 06E 11 SW Klam 35S 06E 11 SW Klam 35S 06E 20 SW Klam 35S 06E 20 SV/2 Klam 35S 06E 15 SE Klam 35S 06E 20 NV/2 Klam 35S 06E 20 NV Klam 35S 06E 20 SV/2 Klam 35S 06E 20 NV Klam 35S 06E 20 NV <	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 935 Steiger Butte N 456 Williamson R 588 Cave Mt 1129 Cave Mt 1218 Cave Mt 1211 Childmanon R 555 Copeland Canyon 881 Copeland Canyon 811 Copeland Canyon 821 Copeland Canyon 825 Sprague R 400 Sprague R 400 Sprague R 427 Malone Springs N 428 Rock Cr 528 Rock Cr 528 Rock Cr 528 Rock Cr 425 Malone Springs S 426 Malone Springs S 583 Recreation Cr 424 Rock Vpoint	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	FS PV PS FS FS FS	 	- U U	al/s U U	RT OF - al al F	U al F al	U al F al al al	U al 2 al	oF U al F al al 2	U 1 al al 1 1 al	al *oF 2 al al al al 1 1 al	al 1 2 al F al 1 al al al	F F I I al al al al al al al al al al al al al al al al al al	OF 1 al al al al al al oF al al al	F 1 al al F al 2 NL al	oF 2 1 al al al al al al al al al al F NL al	F 1d - 2 al al al al al al al al al al	F 2 O? F al al oF al al al al al al NL al NL al soft S	2 oF NL NL al 1 al F NL F	2 1 NL NL 2 NL al 1 al 1 NL 2	1 oF al 2 NL Al oF al 1 NL NL 2 al	1 1 2 NL 2 NL al TD oF 2 NL NL 1 al	1 F al 1 NL 2 NL 2 3 NL 2 2	F OF 2 ND OF 2 NL NL 1 1 2 NL 1 1	2 F ND *1 3 NL NL oF 2 2 NL 2 2 2 NL 2	2 1 N 2/s 1 F oF NL 0F al 1 1 2 NL 2	2 F 1,ND 2 2 2 2 NL NL oF al 3d TD,oF *al 1 NL NL 2	F F 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	oF 1 1 1 1 2 NL 1 2 NL 4 5 2 2 2 NL 2 NL 2 NL	1 F oF 1 F OF NL NL NL NL OF F 2 NL NL OF
Klam 345 07E 20 NW Klam 345 07E 10 II/2 Klam 345 07E 25 SE Klam 345 07E 25 NE Klam 345 07E 25 NE Klam 345 07E 25 NE Klam 345 07E 30 NE Klam 345 07.5E 01 NW Klam 345 09E 30 NE Klam 345 09E 10 SE Klam 345 09E 10 SE Klam 345 09E 10 SE Klam 355 06E 11 SW Klam 355 06E 02 SW Klam 355 06E 02 SW Klam 355 06E 02 SW Klam 355 06E 14 SW Klam 355 06E 14 SW Klam 355 06E 14 SW Klam 355 06E 26 NE Klam 355 06E 26 NE <	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 935 Steiger Butte N 456 Williamson R 588 Cave Mt 1129 Cave Mt 1218 Cave Mt 1211 Chilliamson R 551 Copeland Canyon 881 Copeland Canyon 881 Copeland Canyon 881 Copeland Canyon 702 Fort Cr 489 Sprague R 1288 Sprague R 1288 Sprague R 1280 Sprague R 1280 Sprague R 1281 Sprague R 1280 Sprague R 1281 Sprague R 1282 Sprague R 1283 Sprague R 1284 Sprague R 1285 Sprague R 1286 Sprague R 1287 Malone Springs N 977 Malone Springs S 128	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a	FS PV PS FS FS FS	 	- U U	al/s U U	RT OF - al al F	U al F al	U al F al al al	U al 2 al	oF U al F al al 2	U 1 al al 1 1 al	al *oF 2 al al al al 1 1 al	al 1 2 al F al 1 al al al	F F I I al al al al al al al al al al al al al al al al al al	OF 1 al al al al al al oF al al al	F 1 al al F al 2 NL al	oF 2 1 al al al al al al al al al al f NL al 2	F 1d 2 2 al al 2 al al 2 al 2 al 2 NL al 3 al 2 al 3 al 2 al 3 al 3 al 3 al 3	F 2 0? F al al oF al al NL al NL al oF al al oF al al oF al al al oF al al al al al al al al al al	2 oF NL NL al 1 al F NL F	2 1 NL NL 2 NL al 1 al 1 NL 2	1 oF al 2 NL F NL al oF al 1 NL 2	1 1 2 NL 2 NL al TD oF 2 NL NL 1	1 F al 1 NL 2 NL 2 3 NL 2 2	F OF 2 ND OF 2 NL NL 1 1 2 NL 1 1	2 F ND *1 3 NL NL oF 2 2 NL 2 2 2 NL 2	2 1 N 2/s 1 F oF NL 0F al 1 1 2 NL 2	2 F 1,ND 2 2 2 2 NL NL oF al 3d TD,oF *al 1 NL NL 2	F F N *F 2 1 2 NL NL oF al 2 NL NL 2 NL 2	oF 1 1 1 1 1 2 NL NL 1 1 2 2 2 NL NL NL NL 2 2	1 F oF 1 F OF NL NL NL NL OF F 2 NL NL OF
Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 10 E1/2 Klam 34S 07E 10 E1/2 Klam 34S 07E 25 NE Klam 34S 09E 19 SE Klam 34S 09E 19 SE Klam 35S 06E 14 NW Klam 35S 06E 11 SW Klam 35S 06E 102 W1/2 Klam 35S 06E 15 SE Klam 35S 06E 14 SW Klam 35S 06E 14 SW Klam 35S 06E 22 NE <t< td=""><td>441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 922 Steiger Butte N 945 Williamson R 958 Cave Mt 935 Cave Mt 1129 Cave Mt 1218 Cave Mt 1312 Cave Mt 1313 Calocy Mt 555 Copeland Canyon 702 Fort Cr 490 Sprague R 1288 Rock Cr <tr< td=""><td>22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a</td><td>FS PV FS FS</td><td> </td><td>- U U</td><td>al/s U U</td><td>RT OF - al al F</td><td>U al F al</td><td>U al F al al al</td><td>U al 2 al</td><td>oF U al F al al 2</td><td>U 1 al al 1 1 al</td><td>al *oF 2 al al al al 1 1 al</td><td>al 1 2 al F al al al 1 al al 1</td><td>F F I I al al al al al al al al al al al al al al al al al al</td><td>OF 1 al al al al al al oF al al al</td><td>F 1 al al F al 2 NL al</td><td>oF 2 1 al al al al al al al al al al f NL al 2</td><td>F 1d - 2 al al al al al al al al al al</td><td>F 2 0? 0? 1 al al 1 al</td><td>2 2 NL NL 2 NL al F NL F Al 2</td><td>2 1 NL NL 2 NL al 1 al 1 NL 2</td><td>1 oF al 2 NL NL al 0 F al 2 al 2</td><td>1 1 2 NL 2 NL al TD oF 2 NL NL 1 al</td><td>1 F al 1 NL 2 NL 2 3 NL 2 2</td><td>F oF 2 ND oF 2 NL 1 2 NL 1 NL 1 2</td><td>2 F ND *1 3 NL NL oF 2 NL NL 2 NL</td><td>2 1 N 2/s 1 F OF NL NL OF al 1 1 2 NL 2 NL 2 2</td><td>2 F 1,ND 2 2 2 2 NL NL 3d TD,oF *al 1 NL 2 NL 2 NL</td><td>F F R N *F 2 1 2 NL NL NL 0 F 2 NL 2 NL 2 NL 2 0 F</td><td>oF 1 1 1 1 1 2 NL NL 1</td><td>1 F oF NL NL NL oF F 2 NL NL oF NL 2</td></tr<></td></t<>	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 922 Steiger Butte N 945 Williamson R 958 Cave Mt 935 Cave Mt 1129 Cave Mt 1218 Cave Mt 1312 Cave Mt 1313 Calocy Mt 555 Copeland Canyon 702 Fort Cr 490 Sprague R 1288 Rock Cr <tr< td=""><td>22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a</td><td>FS PV FS FS</td><td> </td><td>- U U</td><td>al/s U U</td><td>RT OF - al al F</td><td>U al F al</td><td>U al F al al al</td><td>U al 2 al</td><td>oF U al F al al 2</td><td>U 1 al al 1 1 al</td><td>al *oF 2 al al al al 1 1 al</td><td>al 1 2 al F al al al 1 al al 1</td><td>F F I I al al al al al al al al al al al al al al al al al al</td><td>OF 1 al al al al al al oF al al al</td><td>F 1 al al F al 2 NL al</td><td>oF 2 1 al al al al al al al al al al f NL al 2</td><td>F 1d - 2 al al al al al al al al al al</td><td>F 2 0? 0? 1 al al 1 al</td><td>2 2 NL NL 2 NL al F NL F Al 2</td><td>2 1 NL NL 2 NL al 1 al 1 NL 2</td><td>1 oF al 2 NL NL al 0 F al 2 al 2</td><td>1 1 2 NL 2 NL al TD oF 2 NL NL 1 al</td><td>1 F al 1 NL 2 NL 2 3 NL 2 2</td><td>F oF 2 ND oF 2 NL 1 2 NL 1 NL 1 2</td><td>2 F ND *1 3 NL NL oF 2 NL NL 2 NL</td><td>2 1 N 2/s 1 F OF NL NL OF al 1 1 2 NL 2 NL 2 2</td><td>2 F 1,ND 2 2 2 2 NL NL 3d TD,oF *al 1 NL 2 NL 2 NL</td><td>F F R N *F 2 1 2 NL NL NL 0 F 2 NL 2 NL 2 NL 2 0 F</td><td>oF 1 1 1 1 1 2 NL NL 1</td><td>1 F oF NL NL NL oF F 2 NL NL oF NL 2</td></tr<>	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	FS PV FS	 	- U U	al/s U U	RT OF - al al F	U al F al	U al F al al al	U al 2 al	oF U al F al al 2	U 1 al al 1 1 al	al *oF 2 al al al al 1 1 al	al 1 2 al F al al al 1 al al 1	F F I I al al al al al al al al al al al al al al al al al al	OF 1 al al al al al al oF al al al	F 1 al al F al 2 NL al	oF 2 1 al al al al al al al al al al f NL al 2	F 1d - 2 al al al al al al al al al al	F 2 0? 0? 1 al al 1 al	2 2 NL NL 2 NL al F NL F Al 2	2 1 NL NL 2 NL al 1 al 1 NL 2	1 oF al 2 NL NL al 0 F al 2 al 2	1 1 2 NL 2 NL al TD oF 2 NL NL 1 al	1 F al 1 NL 2 NL 2 3 NL 2 2	F oF 2 ND oF 2 NL 1 2 NL 1 NL 1 2	2 F ND *1 3 NL NL oF 2 NL NL 2 NL	2 1 N 2/s 1 F OF NL NL OF al 1 1 2 NL 2 NL 2 2	2 F 1,ND 2 2 2 2 NL NL 3d TD,oF *al 1 NL 2 NL 2 NL	F F R N *F 2 1 2 NL NL NL 0 F 2 NL 2 NL 2 NL 2 0 F	oF 1 1 1 1 1 2 NL NL 1	1 F oF NL NL NL oF F 2 NL NL oF NL 2
Klam 345 07E 20 NW Klam 345 07E 10 IV/2 Klam 345 07E 10 E1/2 Klam 345 07E 25 SE Klam 345 07E 25 NE Klam 345 07E 25 NE Klam 345 07E 55 NW Klam 345 07E 55 NW Klam 345 07E 55 NW Klam 345 09E 30 NE Klam 345 09E 30 NE Klam 345 09E 19 SE Klam 345 09E 19 SE Klam 355 06E 11 NW Klam 355 06E 11 SW Klam 355 06E 11 SW Klam 355 06E 25 W Klam 355 06E 15 SE Klam 355 06E 15 SE Klam 355 06E 26 NE Klam 355 06E 26 NE Klam	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 922 Steiger Butte N 935 Steiger Butte N 935 Steiger Butte N 935 Cave Mt 1129 Cave Mt 1218 Cave Mt 1312 Cave Mt 131 Chologuin Helipad 555 Copeland Canyon 81 Copeand Canyon 428 Sprague R 428 Sprague R 128 Sprague R 128 Sprague R 128 Rock Cr 128 Rock Cr 128 Rock Cr	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	FS PV PS FS FS FS	 	- U U	al/s U U 1	RT OF - al al F -	U al F al	U al F al al al 1	U al 2 al 1 1	oF U al al al al al al al al al al al	U 1 al al 1 1 al	al *oF 2 al al al al 1 1 al	al 1 2 al F al al al al o F	F F 1 F 1 1 al al al al al al *a *a F 1 F 1	OF 1 F al al al al al al b F al F F al F F al F F al F F F F F F F F F F F F F	F 1 1 al al F al NL al 1 1 al al	oF 2 1 al al 1/s al al 1 al 1 al 2 NL	F 1d - 2 al al al 2 al al AL AL AL al AL al AL AL AL AL AL AL AL AL AL AL	F 2 0? F al al al al 1 NL al NL al NL al NL al 1 NL al al al al al al al al al al	2 2 oF NL al 1 al F NL NL S C al/s	2 1 NL NL 2 1 al 1 NL NL 2 al 2 al	1 oF al 2 NL NL al oF al 1 NL NL 2 al 2 al	1 1 2 NL 2 NL al TD oF 2 NL NL al oF al	1 F al 1 NL 2 NL 2 NL 2 NL 2 NL 1	F oF 2 ND oF 2 NL NL 1 1 2 NL 1 NL 2 NL 2 NL	2 F ND *1 NL oF 2 2 NL 2 NL 2 NL 2 2	2 1 N 2/s 	2 F 1,ND 2 2 2 NL NL NL NL NL NL NL NL 0 F	F F 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	oF 1 1 1 1 2 NL 1 2 NL 4 5 2 2 2 NL 2 NL 2 NL	1 F al oF NL NL 1 NL 0F F 2 NL NL 0F NL NL 0F NL NL 0F NL NL 0F NL NL 0F NL NL 1 NL 0F NL NL 1 NL NL 1 NL NL NL NL NL NL NL NL NL NL
Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 20 NW Klam 34S 07E 10 E1/2 Klam 34S 07E 10 E1/2 Klam 34S 07E 10 E1/2 Klam 34S 07E 25 NE Klam 34S 09E 19 SE Klam 34S 09E 19 SE Klam 35S 06E 14 NW Klam 35S 06E 11 SW Klam 35S 06E 102 W1/2 Klam 35S 06E 15 SE Klam 35S 06E 14 SW Klam 35S 06E 14 SW Klam 35S 06E 22 NE <t< td=""><td>441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 922 Steiger Butte N 945 Williamson R 958 Cave Mt 935 Cave Mt 1129 Cave Mt 1218 Cave Mt 1312 Cave Mt 1313 Calocy Mt 555 Copeland Canyon 702 Fort Cr 490 Sprague R 1288 Rock Cr <tr< td=""><td>22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a</td><td>FS PV FS FS</td><td> </td><td>- U U</td><td>al/s U U</td><td>RT OF - al al F 1</td><td>U al F al al 1 1 1</td><td>U al F al al al</td><td>U al al al 1 1 al</td><td>oF U al al al al al al al</td><td>U 1 al al al 1 al al al 1 F</td><td>al *oF 2 al al al al al al al al al al f F</td><td>al 1 2 al 4 F al 1 al 3 1 0 F 0 G al</td><td>F F F F 1 1 al al al al al al al al al al al al F 1 F 1 al 1 1 al al al al al al al a</td><td>OF 1 al al al al al al A F</td><td>F 1 al al R al NL al NL al 1</td><td>oF 2 1 al al 1/s al al 1 al 2 NL 2 NL 3</td><td>F 1d - 2 al al al al al al al al al al al al al</td><td>F 2 0? 0? 1 al al 1 al</td><td>2 2 NL NL 2 NL al 1 al F NL F al 2</td><td>2 1 0F NL 2 NL al 1 al 1 NL 2 al 2</td><td>1 oF al 2 NL NL al 0 F al 1 NL 2 al 2</td><td>1 1 2 NL 2 NL 2 TD oF 2 NL NL 1 al 0 F</td><td>1 F al 1 NL 2 NL 2 NL 2 NL 1 NL</td><td>F oF 2 ND oF 2 NL 1 2 NL 1 NL 1 2</td><td>2 F ND *1 N 1 3 NL 0F 2 2 NL 2 NL 2 NL 2 NL 2 NL</td><td>2 1 N 2/s 1 F OF NL NL OF al 1 1 2 NL 2 NL 2 2</td><td>2 F 1,ND 2 2 2 NL NL oF 3d TD,oF *al 1 NL NL 0F NL</td><td>F F 7 7 7 7 7 7 7 7 7 7 8 7 8 7 8 7 8 7</td><td>oF 1 1 1 1 1 1 2 NL NL 1 1 2 NL 2 NL 2 NL</td><td>1 F oF NL NL NL oF F 2 NL NL oF NL 2</td></tr<></td></t<>	441 Steiger Butte N 511 Steiger Butte N 922 Steiger Butte N 922 Steiger Butte N 945 Williamson R 958 Cave Mt 935 Cave Mt 1129 Cave Mt 1218 Cave Mt 1312 Cave Mt 1313 Calocy Mt 555 Copeland Canyon 702 Fort Cr 490 Sprague R 1288 Rock Cr <tr< td=""><td>22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a</td><td>FS PV FS FS</td><td> </td><td>- U U</td><td>al/s U U</td><td>RT OF - al al F 1</td><td>U al F al al 1 1 1</td><td>U al F al al al</td><td>U al al al 1 1 al</td><td>oF U al al al al al al al</td><td>U 1 al al al 1 al al al 1 F</td><td>al *oF 2 al al al al al al al al al al f F</td><td>al 1 2 al 4 F al 1 al 3 1 0 F 0 G al</td><td>F F F F 1 1 al al al al al al al al al al al al F 1 F 1 al 1 1 al al al al al al al a</td><td>OF 1 al al al al al al A F</td><td>F 1 al al R al NL al NL al 1</td><td>oF 2 1 al al 1/s al al 1 al 2 NL 2 NL 3</td><td>F 1d - 2 al al al al al al al al al al al al al</td><td>F 2 0? 0? 1 al al 1 al</td><td>2 2 NL NL 2 NL al 1 al F NL F al 2</td><td>2 1 0F NL 2 NL al 1 al 1 NL 2 al 2</td><td>1 oF al 2 NL NL al 0 F al 1 NL 2 al 2</td><td>1 1 2 NL 2 NL 2 TD oF 2 NL NL 1 al 0 F</td><td>1 F al 1 NL 2 NL 2 NL 2 NL 1 NL</td><td>F oF 2 ND oF 2 NL 1 2 NL 1 NL 1 2</td><td>2 F ND *1 N 1 3 NL 0F 2 2 NL 2 NL 2 NL 2 NL 2 NL</td><td>2 1 N 2/s 1 F OF NL NL OF al 1 1 2 NL 2 NL 2 2</td><td>2 F 1,ND 2 2 2 NL NL oF 3d TD,oF *al 1 NL NL 0F NL</td><td>F F 7 7 7 7 7 7 7 7 7 7 8 7 8 7 8 7 8 7</td><td>oF 1 1 1 1 1 1 2 NL NL 1 1 2 NL 2 NL 2 NL</td><td>1 F oF NL NL NL oF F 2 NL NL oF NL 2</td></tr<>	22-1a 22-1a 22-1a 22-1a 22-2c 22-2c 22-2c 22-2c 22-2a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	FS PV FS	 	- U U	al/s U U	RT OF - al al F 1	U al F al al 1 1 1	U al F al al al	U al al al 1 1 al	oF U al al al al al al al	U 1 al al al 1 al al al 1 F	al *oF 2 al al al al al al al al al al f F	al 1 2 al 4 F al 1 al 3 1 0 F 0 G al	F F F F 1 1 al al al al al al al al al al al al F 1 F 1 al 1 1 al al al al al al al a	OF 1 al al al al al al A F	F 1 al al R al NL al NL al 1	oF 2 1 al al 1/s al al 1 al 2 NL 2 NL 3	F 1d - 2 al al al al al al al al al al al al al	F 2 0? 0? 1 al al 1 al	2 2 NL NL 2 NL al 1 al F NL F al 2	2 1 0F NL 2 NL al 1 al 1 NL 2 al 2	1 oF al 2 NL NL al 0 F al 1 NL 2 al 2	1 1 2 NL 2 NL 2 TD oF 2 NL NL 1 al 0 F	1 F al 1 NL 2 NL 2 NL 2 NL 1 NL	F oF 2 ND oF 2 NL 1 2 NL 1 NL 1 2	2 F ND *1 N 1 3 NL 0F 2 2 NL 2 NL 2 NL 2 NL 2 NL	2 1 N 2/s 1 F OF NL NL OF al 1 1 2 NL 2 NL 2 2	2 F 1,ND 2 2 2 NL NL oF 3d TD,oF *al 1 NL NL 0F NL	F F 7 7 7 7 7 7 7 7 7 7 8 7 8 7 8 7 8 7	oF 1 1 1 1 1 1 2 NL NL 1 1 2 NL 2 NL 2 NL	1 F oF NL NL NL oF F 2 NL NL oF NL 2

-		sted in the Washington section if the b	breeding territor	7 1101000																													
<lam< td=""><td>35S 07E 22 NW</td><td>436 Lobert Draw</td><td>22-1a</td><td>FS</td><td>-</td><td>-</td><td>2</td><td>2</td><td>2</td><td>2</td><td>3</td><td>2</td><td>2</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>3</td><td>2 0</td><td>F oF</td><td>2/s</td><td>2</td><td>2</td><td>2d</td><td>1</td><td>ND</td><td>Ν</td><td></td><td></td><td></td><td></td></lam<>	35S 07E 22 NW	436 Lobert Draw	22-1a	FS	-	-	2	2	2	2	3	2	2	3	2	2	2	2	2	3	2 0	F oF	2/s	2	2	2d	1	ND	Ν				
	35S 07E 22 NW	437 Lobert Draw	22-1a	FS	-	-	al/s	al	al	al	al	al	al	ND	N																		
Klam	35S 07E 22 NW	938 Lobert Draw	22-1a	FS																								oF	1	1	3	F	2
Klam	35S 07E 25 SW	443 Telephone Flat	22-1a	FS	Α?	-	1/s	2	1	2	TD	Ν																					
	35S 07E 36 NE	463 Telephone Flat	22-1a	FS	-	-	al	al	al	al	oF	oF	F	al	al	al	al	al	oF		ID I												
	35S 07E 25 SW	510 Telephone Flat	22-1a	FS										*1	1	1	2	F	ND	N *	0?	1 1	1	al	NL	NL	NL	NL	NL	NL	NL	NL	NL
	35S 07E 26 W1/2	712 Telephone Flat	22-1a	FS																				2/L?	1	1	2	0F 2	0?	U ND -5	oF	al	ND
	35S 07E 27 NE 35S 07E 27 NE	940 Lobert Telephone 1221 Lobert Telephone	22-1a 22-1a	FS FS																								2	2	ND,oF	N	oF	F
	35S 09E 06 NE	1215 Potters	22-2c	FS																												F	oF
Klam	35S 09E 35 NE	563 Skeen Ranch	22-2c	FS																0?	2	oF	oF	al	al	al	NL						
	36S 09E 01 NW	734 Skeen Ranch	22-2c	FS																-	-			1	oF	2	al	NL	NL	NL	ND	N	
	36S 09E 01 NW	883 Skeen Ranch	22-2c	FS																							2	3	A?	2	3	ND	N
	35S 09E 01 SE	1220 Skeen Ranch	22-2c	FS																												2	2
	35S 14E 33 NW	529 North Fork Sprague R	22-2c	FS													1	oF	2	oF	F ND	*0? 1	1	2	2	oF	oF	oF	F	F	F	al	2
	35S 14E 33 SW	1206 North Fork Sprague R	22-2c	FS																												2,ND	Ν
	36S 06E 04 SW 36S 06E 04 SW	56 Pelican Bay 508 Pelican Bay	22-1a 22-1a	PV FS					1/s	1	ND,0?	0?	Ν	*F/s	F	oF	ND	N															
	36S 06E 04 SW	506 Pelican Bay 527 Pelican Bay	22-1a 22-1a	FS										"F/S	г	OF	oF	oF	0?	ш		і II	ш		Ш	0?	ш			ш	ш	NL	NL
Klam	36S 06E 23 SW	422 Odessa N	22-1a	FS	-	A?	2	1	1	oF	oF	1	F	1	2	1	F	2		U	al ;	, ₀	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL,
	36S 06E 23 NW	574 Odessa Marina	22-1a	FS		<i>/</i> (.	-		·	0.	0.				-			-	•		2		2	2	3	3	2	al	al	2	2	1	2
Klam	36S 06E 22 N1/2	423 Tomahawk	22-1a	FS		al	al	al	al	al	al	al	al	al	al	NL	NL	NL	NL	N													
	36S 06E 15 SE	970 Odessa Store	22-1a	FS	_																							2	2	2	2	2	F
Klam	36S 06E 15 SW	558 Tomahawk	22-1a	FS																*al	1	2 oF	oF	oF	1	oF	oF	oF	F	oF	U	-	1
Klam	36S 06E 25 NW	479 Odessa Dump	22-1a	FS	-	-	-	-	al	F	oF	2	2	1	1	al	al	al	al		al i		al	al	al	2	oF	al	F	F	1	2	2
	36S 06E 25 NW 36S 06E 26 NF	421 Odessa Dump	22-1a 22-1a	FS FS	Α?	Α?	1	F	F	al	al	al	al	al	al	al	al	al	al	al		al al	NL	N	F	-1	-1	ND	N				
	36S 06E 26 NE	565 Odessa Dump 967 Varney Cr	22-1a 22-1a	FS																	1 0	F 2	2	oF	F	ai	al	ND oF	2	1	E	oF	E
	36S 06E 25 SE	521 Odessa Dump S	22-1a	FS												1	2	2	2	2	ID I	J	*2	1	3	2	F	oF	1	F	2	2	oF
	36S 06E 25 SE	566 Odessa Dump S	22-1a 22-1a	FS													2	2	2		oF d		al	al	TD	N		01			2	2	01
Klam	36S 07E E 14 NE	568 Modoc Lookout	22-1a	FS																I		F 2	al	al	al	al	al	al	al	al	al	NL	NL
	36S 07E E 12 SW	658 Modoc Lookout	22-1a	FS																			2	1	2	F,TD	N			-			
Klam	36S 07E E 12 SW	841 Modoc Lookout	22-1a	FS																						*al	oF	1	2	oF	F	2	2
Klam	36S 07E E 23 NW	447 Modoc Point	22-1a	FS	-	-	-	1	2	al	al	ND	Ν																				
	36S 07E E 15 SE	450 Modoc Point	22-1a	FS						1	F	al	al	al	al	al	al	al	al	al			NL	N									
	36S 07E E 15 SE	501 Modoc Point	22-1a	FS								2	al	1	1	1	F	F	al		al i		al	al	3	2	2	1	oF	0?	2	1	NL
Klam	36S 07E E 15 SE	502 Modoc Point	22-1a	FS								al	F	al	al	al	al	al	al		al ;		al	1	al	al	al	al	al	al	NL	NL	NL
	36S 07E E 15 SE 36S 07E E 15 SE	541 Modoc Point 582 Modoc Point	22-1a 22-1a	FS FS														*al	1	1	1 of	/s NL al F	NL F	NL al	NL NL	NL NL	NL NL						
	36S 07E E 15 SE 36S 07E E 15 SE	1282 Modoc Point	22-1a 22-1a	FS																	-	11 F	F	ai	a	a	ai	ai	ai	ai	NL	NL	2
	36S 07E E 23 SE	1157 Modoc Point S	22-1a	FS																											2	2	2
	36S 07E W 24 NE	1158 Bare Is	22-1a	PV																											2	1	2
Klam	36S 07E W 23 NE	945 Eagle Point	22-1b	CO																								*oF	0?	ND,U	N		
	36S 07E W 23 SE	433 Eagle Ridge N	22-1b	CO			al/s	al	al	F	al	al	al	al	al	NL	Ν																
	36S 07E W 23 NE	444 Eagle Ridge N/w	22-1b	CO			al	al	F	al	F	F	F	F	F	F	F	al	F		F		F	F	F	oF	F	F	2	2	2	F	F/c
	36S 07E W 23 SE	560 Eagle Ridge N	22-1b	CO	_																			N									
Klam Klam	36S 07E W 23 SE	432 Eagle Ridge N/S	22-1b	CO			1	1	al	2 al	al al	al al	al 1	al	al	al F	1	1 N	al	al	al 2	/s F	ND	Ν									
	36S 07E W 25 NW 36S 07E W 25 NW	471 Eagle Ridge S 472 Eagle Ridge S	22-1b 22-1b	CO CO					F/s al	al	al	al/s	NL	2 NL	A? NL	F NL	NL NL	N															
	36S 07E W 25 NW	472 Eagle Ridge S 473 Eagle Ridge S	22-10 22-1b	co					al	al	al	al/s	NL	NL	NL	NL	NL	N															
	36S 07E W 25 NW	488 Eagle Ridge S	22-1b	co					-	-	al	1	al	al	al	al	al	al	al	al	al ;	al RT/s	al	al	al	al	al	al	al	al	al	al	
	36S 07E W 25 NW	487 Eagle Ridge S	22-1b	CO							2	al	al	al	al	al	al	oF	2	2 0	oF a	al al	al	al	al	al	al	al	al	al	al	al	
	36S 07E W 25 NW	575 Eagle Ridge S	22-1b	со																	al ;		1	al	al	al							
Klam	36S 07E W 23 SE	731 Eagle Ridge S	22-1b	CO																				*2	2	2	2	1	1	1	oF	1	0?/c
Klam	36S 07E W 28 NE	16 Ball Point	22-1b	PV	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al	al i	al NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	36S 07E W 28 NW	25 Ball Point	22-1b	PV	al	al	al	al	al	al	al/s	al	al	al	al	al	al	al	al	al	al ;	al NL	NL	ND	Ν								
	36S 07E W 28 NW	26 Ball Point	22-1b	PV	0?	A?	1	1	F	oF	al/s	al	al	TD	N	,						,		• / :									
	36S 07E W 27 SW	29 Ball Point	22-1b	PV	al	al	al	al	al	al	2	1	1	2	2	1	*2	1	1			/s NL	NL	NL	ND	N							
	36S 07E W 27 SW 36S 07E W 27 SW	70 Ball Point 101 Ball Point	22-1b 22-1b	PV PV								al	al	al	al	NL	NL	NL	NL	NL N	IL N *	IL NL 1 1/s	NL 1	NL TD	NL N	NL	NL	NL	NL	NL	NL	NL	NL
Klam	36S 07E W 27 NW	711 Ball Point	22-1b 22-1b	PV PV																		1 1/5		2	0F	1	1	2	F	oF	oF	2	2
Klam	36S 07E W 36 SW	6 Eagle Hill	22-1b	PV	F	U	-/s	U	U	U	U	al	al	al	al	al	al	al	al	al	al N	D N	TD	-			· · ·	-	•	01	51	-	
	36S 07E W 36 SE	34 Eagle Hill	22-1b	PV	al	Ŭ	-	Ŭ	Ŭ	Ŭ	Ŭ	0?	0?	oF	oF	oF	oF	oF	F	al		/s al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL
	36S 07E W 36 SE	37 Eagle Hill	22-1b	PV	al	Ū	-	Ŭ	Ū	U	Ũ	al	al	al	al	al	ND	*al	al			IL NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam	303 07 L W 30 3L		22-1b	PV								-	al	al	al	NL	NL	NL		NL M	IL N	IL NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam Klam	36S 07E W 36 SE	69 Eagle Hill	22-10										al	al	al	al				al	al ;	al al											NL
Klam Klam Klam Klam	36S 07E W 36 SE 37S 07E 01 NE	71 Eagle Hill	22-1b	PV								-	ai	ai	di		al	al	al	di			al	al	NL	NL	NL	NL	NL	NL	NL	NL	INL
Klam Klam Klam Klam Klam	36S 07E W 36 SE 37S 07E 01 NE 37S 07E 01 NE	71 Eagle Hill 499 Eagle Hill	22-1b 22-1b	ODF								-	al	al	al	ai al	ai al	al al	al al	al	al ;	al NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam Klam Klam Klam Klam Klam	36S 07E W 36 SE 37S 07E 01 NE 37S 07E 01 NE 36S 07E W 36 SE	71 Eagle Hill 499 Eagle Hill 96 Eagle Hill	22-1b 22-1b 22-1b	ODF PV								-	al					c.		al	al i al i	al NL al 1	NL 2	NL 1	NL NL	NL NL	NL NL	NL NL	NL NL	NL NL	NL NL	NL NL	NL NL
Klam Klam Klam Klam Klam Klam Klam	36S 07E W 36 SE 37S 07E 01 NE 37S 07E 01 NE	71 Eagle Hill 499 Eagle Hill	22-1b 22-1b	ODF								-	al					c.		al	al i al i	al NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

Co TRS Location

No Name

Co TRS Location	No	Name	RZ	Own	76 77	78 79	80	81	82	83	84	85	86	87	88	39 9	0 91	92	93	94	95	96	97	98	99	00	01	02	03	04	05

onedon nests. Some may be	c listed in the washington section in the	e breeding territory	mendees	i nests i	ii bouii	states.																											
Klam 36S 10E 18 NE	484 Craigs Hole	22-2c	FS					-	2	1	al	F	al	3	F	1	ND,A?	Ν															
Klam 36S 10E 18 NE	491 Craigs Hole	22-2c	FS								*2	al	al	al	ND	Ν		**	-	-	-	-							-				
Klam 36S 10E 18 NE Klam 36S 10E 18 NE	571 Craigs Hole 1067 Craigs Hole	22-2c 22-2c	FS FS															*2	F	F	F	F	1	2	2	2	2	2	oF	al oF	NL oF	NL oF	N F
Klam 36S 10E 36 NW	548 Dams Canyon	22-2c	FS															2	2	3	F	al	F	al	ND	N				0.	0.	01	· · ·
Klam 36S 10E 25 SW	633 Dams Canyon	22-2c	FS																			*2	al	2	1	2	2	ND,F	*2	F	al	al	NL
Klam 36S 10E 25 SW	1130 Dams Canyon	22-2c	FS																												2	oF	oF
Klam 36S 11E 33 SE	536 Cliney Flat 547 Medicine Mt	22-2c	FS													-	2	1	3	1	oF	2	oF	2	1	2	1	3	1	3	oF	2	2
Klam 36S 13E 19 SE Klam 36S 13E 19 NE	643 Medicine Mt	22-2c 22-2c	FS FS															*1/s	2	F	2,ND '	*2,ND	N *F	2	2	1	F	F	F	2	2	2	2
Klam 36S 15E 28 NW	462 Campbell Res (X)	22-2c	BLM			U	U	U	GH	U	U	U	RT	RT	U	RT	RT	RT	RT	RT	U	U	U	0?	U	U	RT	U	U	NS	NS	NS	NS
Klam 37S 05E 03 SW	475 Lake of the Woods	22-2a	FS					-	1	oF	A?	2	1	F	F	F	F	1	2d	ъF	1	2	F	1	2	oF	F	oF	oF	oF	F	oF	1
Klam 37S 05E 03 SW	495 Lake of the Woods	22-2a	FS								al	al	al	al	NL	NL	NL	NL	NL	N													
Klam 37S 05E 03 SW	976 Lake of the Woods	22-2a	FS																									al	al	al	al	al	NL
Klam 37S 06E 01 NE Klam 37S 06E 01 NE	492 Moss Cr 493 Moss Cr	22-1a 22-1a	FS FS							U	U U	U U	U U	U U	U U	U U	U U	U U		N I/s	2	oF	3	F	oF	oF	F	ND	N				
Klam 375 06E 01 NE	978 Moss Cr	22-1a 22-1a	FS								U	U	U	U	U	U	U	U	υı	1/5	2	OF	5	r	OF	OF	г	2	2	GE,U	2	oF	1
Klam 37S 07E 02 SW	19 Shoalwater	22-1b	PV	-	-	al	al	al	al	al	al	al	F	U	al	al	al	al	al	al	al/s	al	al	al	al	al	al	al	GE	TD	N		
Klam 37S 07E 02 SW	20 Shoalwater	22-1b	PV	-	-	al	al/s	al	al	al	al	al	al	ND	N																		
Klam 37S 07E 02 NE	5 Shoalwater E	22-1b	PV	-	-	al	al	al	al	al	al	al	al	U/s	al	al	al	al	al	al	al	al	al	TD	Ν								
Klam 37S 07E 03 NE	35 Shoalwater W	22-1b	PV	-	-	al	al oF	al	al	al	al	al	al	U	al al	al	al	al	al	al	al/s	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 37S 07E 03 SE Klam 37S 07E 03 SE	39 Doak Ridge 50 Shoalwater	22-1b 22-1b	PV PV	-	-	F	OF	al al	al	ai al	ai al	ai al	al al	U RT	al al	al NI	F	al NI	al NI I	al N	al NL	al NL	al NL	TD NL	N NL	NI	NL	NL	NI	NL	NL	NL	NI
Klam 375 07E 03 SE	51 Shoalwater	22-1b 22-1b	PV					al	al	al	al	al	al	NL	al	NL	NL	NL			NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 37S 07E 03 SE	52 Shoalwater	22-1b	PV					al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL I	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 37S 07E 03 SE	54 Shoalwater	22-1b	PV					al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL		۱L	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 37S 07E 03 SE	53 Doak Ridge	22-1b	PV					F	F	oF	al	al	al	U	F	al	al	F		al	F	al	al	al	al	al	2	al	al	al	al	NL	NL
Klam 37S 07E 03 SE Klam 36S 07E 36 SW	68 Doak Ridge 97 Shoalwater E	22-1b 22-1b	PV PV						-	-	F	F	al	U	al	F	al	al	•	F al I	al ND/s	F RT	oF NL	2 NL	2 NL	F NL	al NL	1 NL	1 NL	1 NI	F NL	1 NL	1 NL
Klam 37S 07E 03 SW	65 Doak N	22-1b	PV						2	F	F	2	2	2	2	2	2	2		F	1	1	1	2	F	F	2	oF	1	1	F	1	2
Klam 37S 07E 12 NE	7 Plantation W	22-1b	PV	al	-	U	al	U	U	F	al	F	F	U	F	F	F	al	al	U	oF	U/s	ND,U	*al	ND	Ν							
Klam 37S 07E 12 NE	8 Plantation W	22-1b	PV	F	-	U	oF	U	U	al/s	F	TD	Ν																				
Klam 37S 07E 02 SE	12 Doak Central	22-1b	PV	oF	U	U	oF	U	F	U	U	0?	oF	al	U	ND	*al	al	al	U	ND	N/s											
Klam 37S 07E 11 SW Klam 37S 07E 11 SW	13 Woodcutter 14 Woodcutter	22-1b 22-1b	PV PV	al CD	U N	U	al	U	al	U	U	al	al/s	F	TD	Ν																	
Klam 37S 07E 11 SW	660 Woodcutter	22-1b 22-1b	PV	CD	IN																		2	2	F	F	al	al	1	U	1	U	F
Klam 37S 07E 14 NE	77 Doak Mt	22-1b	PV	-								al	al	al	U	oF	al	al	al	U	al/s	U	al	al	al	al	F	F	1	1	F	1	1
Klam 37S 07E 11 NE	24 Doak Central	22-1b	PV	al	U	U	al	U	al	U	U	al	al	al	U	al	1	F	1/s	U	ND	Ν						*1	U	1	U	oF	U
Klam 37S 07E 24 SW	23 Photographer	22-1b	PV	-	-	-	0?	oF	al	al	al	NL	NL	NL	N									/s									
Klam 37S 07E 24 E1/2 Klam 37S 07E 24 NW	60 Photographer 88 Photographer	22-1b 22-1b	PV PV						F	F	2	F	2	1/s	al 1	NL 2	N 1	1	2 2	!/s	ND	N				TD	N						
Klam 37S 07E 13 SW	45 Doak S	22-1b	PV			07	al	al	al	al	al	al	al	al	al	NL	NL	NL				TD	N			10	IN						
Klam 37S 07E 14 SE	95 Doak S	22-1b	PV			0.	u .			C.	u	c.	c.	c.	c.						al/s	NL	NL	TD	Ν								
Klam 37S 07E 13 SW	102 Photographer	22-1b	PV																		1	F	2	al	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 37S 07E 14 SE	745 Photographer	22-1b	PV																					*al	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 37S 07E 24 Cent Klam 37S 07E 24 SW	771 Photographer 1249 Photographer	22-1b 22-1b	PV PV																						F	2	F	F	2	F	2	2 al	oF
Klam 375 07E 13 SE	17 Squaw Marsh	22-1b	PV		-	1	F	F	oF	1/s	2	F	F	1	oF	F	F	oF	ND,U	N				*2	TD	N						61	a
Klam 37S 07E 13 ?	40 Squaw Marsh	22-1b	PV	-	-	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	N														
Klam 37S 07E 13 ?	41 Squaw Marsh	22-1b	PV	-	-	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	N														
Klam 37S 07E 13 SE Klam 37S 08E 18 SW	89 Squaw Marsh	22-1b	PV PV	_											*al	al	al	al	NL	U	al	al/s	NL	NL	NL	ND	N 3	F	oF		oF		
Klam 37S 08E 18 SW Klam 37S 07E 25 NW	840 Squaw Marsh 15 Highway	22-1b 22-1b	PV		-	U	U	c	al	E	al	al	al	al	al	al	al	al	al	al	al/s	al	al	al	1	3	3	3	2	1	OF OF	2	oF
Klam 37S 07E 25 NW	36 Howard Bay	22-1b 22-1b	PV		-	U	U/s	al	al	г al	al	al	al	al	NL	TD	N	di	dl	dl	di/ 5	dl	di	di	'	э		5	2	1	UF	2	OF
Klam 37S 07E 36 NE	38 Howard Bay	22-1b	PV	-	-	U	U	al	al	al	al	al	al	al	NL	NL	NL	NL	NL I	۱L	NL	NL	Ν										
Klam 37S 07E 25 NW	59 Highway	22-1b	PV						F	al	F	F	al	al	al	al	al	F			al/s	oF	2	2	TD	Ν							
												al al	al F	al	al	NL	NL	NL		N													
Klam 37S 07E 26 NE	61 Highway	22-1b	PV											al	al al	al al	al al	al ND	al N	al	al N	ID/s,n	N										
Klam 37S 07E 26 NE Klam 37S 07E 25 SW	79 Highway	22-1b	PV									ai		al										TD									
Klam 37S 07E 26 NE Klam 37S 07E 25 SW Klam 37S 07E 25 SW	79 Highway 80 Highway	22-1b 22-1b										ai	al	al *F	ai 1	F	oF	al	al	F	oF/s	TD/n	N	TD									
Klam 37S 07E 26 NE Klam 37S 07E 25 SW	79 Highway	22-1b	PV PV						0?	2	1	2 2		*F 2	1	F	oF N			F	oF/s *oF	TD/n oF	N F	TD 1	1	2	1	1	2	1	oF	1	F
Klam 37S 07E 26 NE Klam 37S 07E 25 SW Klam 37S 07E 25 SW Klam 37S 07E 36 NW Klam 37S 07E 32 SW Klam 38S 07E 17 SE	79 Highway 80 Highway 83 Howard Bay 63 Aspen L 81 Aspen L (X)	22-1b 22-1b 22-1b 22-2a 22-2a 22-2a	PV PV PV PV PV						0?	2	1	u	al	*F	1	F ND al	oF N ND	al N	al		*oF		N F	TD 1	1	2	1	1	2	1	oF	1	F
Klam 37S 07E 26 NE Klam 37S 07E 25 SW Klam 37S 07E 25 SW Klam 37S 07E 36 NW Klam 37S 07E 32 SW Klam 37S 07E 32 SW Klam 37S 07E 32 SW	79 Highway 80 Highway 83 Howard Bay 63 Aspen L 81 Aspen L 91 Aspen L	22-1b 22-1b 22-1b 22-2a 22-2a 22-2a 22-2a	PV PV PV PV PV PV									2	al 2 al	*F 2 RT	1 2 RT	F ND al *2	oF N ND 2	al	al 2 N	F 0,0?	*oF N		F	1	1		1	1	2	1		1	F
Klam 37S 07E 26 NE Klam 37S 07E 25 SW Klam 37S 07E 25 SW Klam 37S 07E 36 NW Klam 37S 07E 32 SW Klam 37S 07E 36 SE	79 Highway 80 Highway 83 Howard Bay 63 Aspen L 81 Aspen L (X) 91 Aspen L 21 Three Chick	22-1b 22-1b 22-2a 22-2a 22-2a 22-2a 22-2a 22-1b	PV PV PV PV PV PV DFW		al	al	al	al	al	al	al	2 al	al 2 al al	*F 2 RT al	1 2 RT al	F ND al *2 al	oF N ND 2 oF	al N 2 F	al		*oF		N F oF	TD 1 oF	1 oF	2 oF	1 F	1 al	2 al	1 F	oF	1 al	F TD al
Klam 375 07E 26 NE Klam 375 07E 25 SW Klam 375 07E 25 SW Klam 375 07E 36 NW Klam 375 07E 32 SW Klam 375 07E 32 SW Klam 385 07E 17 SE Klam 375 07E 32 SW Klam 375 07E 32 SW Klam 375 07E 36 SE Klam 375 07E 36 SE Klam 375 07E 36 SE	79 Highway 80 Highway 83 Howard Bay 63 Aspen L 81 Aspen L 81 Aspen L 91 Aspen L 21 Three Chick 22 Three Chick	22-1b 22-1b 22-2a 22-2a 22-2a 22-2a 22-1b 22-1b	PV PV PV PV PV PV DFW PV	-	1	2	3	2	al 2	al 1	al 1	2 al oF	al 2 al al oF	*F 2 RT al al	1 2 RT al al	F ND al *2 al 1	oF N ND 2	al N	al 2 N		*oF N		F	1	1 oF		1 F	1 al	2 al	1 F		1 al	F TD al
Klam 37S 07E 26 NE Klam 37S 07E 25 SW Klam 37S 07E 25 SW Klam 37S 07E 36 NW Klam 37S 07E 32 SW Klam 37S 07E 36 SE	79 Highway 80 Highway 83 Howard Bay 63 Aspen L 81 Aspen L (X) 91 Aspen L 21 Three Chick	22-1b 22-1b 22-2a 22-2a 22-2a 22-2a 22-2a 22-1b	PV PV PV PV PV PV DFW	-					al	al	al	2 al	al 2 al al	*F 2 RT al	1 2 RT al	F ND al *2 al	oF N ND 2 oF	al N 2 F	al 2 N		*oF N		F	1	1 oF		1 F	1 al	2 al	1 F		1 al	F TD al
Klam 375 07E 26 NE Klam 375 07E 25 SW Klam 375 07E 25 SW Klam 375 07E 36 NW Klam 375 07E 32 SW Klam 375 07E 36 SE Klam 375 07E 36 SW	79 Highway 80 Highway 83 Howard Bay 63 Aspen L 81 Aspen L 81 Aspen L 21 Three Chick 22 Three Chick 32 Caledonia 33 Caledonia 49 Three Chick	22-1b 22-1b 22-2a 22-2a 22-2a 22-1b 22-1b 22-1b 22-1b 22-1b 22-1b	PV PV PV PV PV DFW PV PV PV DFW		1 al	2 al	3 al	2 al	al 2 al	al 1 al	al 1 al	2 al oF al	al 2 al al oF al	*F 2 RT al al al	1 2 RT al al ND	F ND al *2 al 1 N	oF N ND 2 oF TD/n	al N 2 F N RT	al 2 NE oF		*oF N		F oF al	1	1 oF N		1 F	1 al	2 al	1 F		1 al	al
Klam 375 07E 26 NE Klam 375 07E 25 SW Klam 375 07E 25 SW Klam 375 07E 36 NW Klam 375 07E 36 NW Klam 375 07E 32 SW Klam 375 07E 32 SW Klam 375 07E 32 SW Klam 375 07E 36 SE Klam 375 07E 36 SW	79 Highway 80 Highway 83 Howard Bay 63 Aspen L 81 Aspen L (X) 91 Aspen L 21 Three Chick 22 Three Chick 32 Caledonia 33 Caledonia 49 Three Chick 659 Caledonia	22-1b 22-1b 22-2a 22-2a 22-2a 22-2a 22-1b 22-1b 22-1b 22-1b 22-1b 22-1b 22-1b	PV PV PV PV PV DFW PV PV DFW PV PV PV		1 al	2 al	3 al al	2 al al	al 2 al	al 1 al al	al 1 al al	2 al oF al al	al 2 al al oF al al	*F 2 RT al al al 2	1 2 RT al al ND oF	F ND al *2 al 1 N NL	oF N ND 2 oF TD/n N	al N 2 F N	al <u>2 NE</u> oF al), <u>0?</u> F	*oF N oF	oF F	F oF al al	1 oF ND al	N al	oF	al	oF	oF	al	al	1 al NL	al ND
Klam 375 07E 26 NE Klam 375 07E 25 SW Klam 375 07E 25 SW Klam 375 07E 35 SW Klam 375 07E 35 SW Klam 375 07E 32 SW Klam 385 07E 17 SE Klam 375 07E 32 SW Klam 375 07E 32 SW Klam 375 07E 32 SW Klam 375 07E 36 SE Klam 375 07E 36 SW Klam 375 07E 36 SW	79 Highway 80 Highway 83 Howard Bay 63 Aspen L 81 Aspen L 81 Aspen L 21 Three Chick 22 Three Chick 32 Caledonia 33 Caledonia 49 Three Chick	22-1b 22-1b 22-2a 22-2a 22-2a 22-1b 22-1b 22-1b 22-1b 22-1b 22-1b	PV PV PV PV PV DFW PV PV PV DFW		1 al	2 al	3 al al	2 al al	al 2 al	al 1 al al	al 1 al al	2 al oF al al	al 2 al al oF al al	*F 2 RT al al al 2	1 2 RT al al ND oF	F ND al *2 al 1 N NL	oF N ND 2 oF TD/n N al	al N 2 F N RT	al <u>2 NE</u> oF al), <u>O?</u> F al	*oF N oF al	oF F al	F oF al	1 oF ND	N	oF					al	1 al NL oF NL	al

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

Klam 37S 07E 36 SE	1134 Three Chick	22-1b	DFW																											al	al	0?
37S 08E 01 NE	629 Hagelstein Park (X)	22-1a	FS																		0		NL	NL	NL	NL	NL	NL	NL	NL	NL	
Klam 36S 08E 31 SE	680 Dry L Flat	22-1a	FS																			oF/s	1	al	1	al	al	al	al	oF	1	0?
Klam 36S 08E 31 SE	765 Dry L Flat	22-1a	FS																					F	al	F	al	al F	al	al	al	al
Klam 36S 08E 31 SE	936 Dry L Flat	22-1a	FS												-												F	F	oF	al	al	al
Klam 37S 08E 06 SW	1 Plantation N	22-1b	PV PV	al al	al al	al al	al al	al al	al/s al	al al	al al	al al	al	al ND	TD	Ν																
Klam 37S 08E 07 NW Klam 37S 08E 07 NW	2 Plantation N 3 Plantation N	22-1b 22-1b	PV	ai F	1	2	ai 1	ai 1	al/s	ai 1	1	al	al al	F	N F	al	1	ND	N		s		*2	oF	3	F	oF	oF	F	TD,oF	N	
Klam 375 08E 06 SW	4 Plantation N	22-1b 22-1b	PV	al	al	al	al	al	al/s	al	al	al	al	al	al	ND	N	ND	IN .				2	U	5		01	01		10,01	IN IN	
Klam 37S 08E 06 SE	64 Plantation N	22-1b 22-1b	PV	ai	ai	ai	ai	ai	2/s	TD	N	ai	ai	ai	ai	ND	IN I															
Klam 37S 08E 07 NE	67 Plantation N	22-1b	PV						2/0	-	al	al	al	al	al	al	al	al	al	al al	/s N	L NL	NL	NL	NL	NL	NL	NL	NI	NL	NL	NL
Klam 37S 08E 06 SW	72 Plantation N	22-1b	PV								al	1	oF	al	al	1	al	oF	al/s		2 ND											
Klam 37S 08E 06 SW	73 Plantation N	22-1b	PV								al	al	al	al	NL	NL	NL	NL	NL		IL N		NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 37S 08E 07 NE	74 Plantation N	22-1b	PV								al	al	al	al	al	al	al	al	1	NL N	IL N	L NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 37S 08E 06 SW	632 Plantation N	22-1b	PV																		*3	al 1/s	TD	N								
Klam 37S 08E 07 NE	1211 Plantation N	22-1b	PV																												oF	1
Klam 37S 08E 06 S1/2	1232 Plantation N	22-1b	PV																												*al	al
Klam 37S 08E 07 NE	1294 Plantation N	22-1b	PV																													al
Klam 37S 08E 06 W1/2	1089 Eagle Hill S	22-1b	PV																										*oF	NL/0?	NL/U	NL
Klam 37S 07E 01 NE	1293 Eagle Hill S	22-1b	PV																				TO									oF
Klam 37S 08E 07 SE Klam 37S 08E 07 SW	9 Plantation S 10 Plantation S	22-1b 22-1b	PV PV	aı	al	al	al	al	al	al/s	al	al	al	1	NL	Ν							TD									
Klam 37S 08E 07 SW Klam 37S 08E 07 SW	10 Plantation S 11 Plantation S	22-1b 22-1b	PV PV	1	al	F	al	al	1	F	al	F	F	al	al	al	al	al	al	al ;	al 2	1	F	F	F	F	1	2	1	al	ND	N
Klam 37S 08E 07 SW	42 Plantation S	22-1b 22-1b	PV		ai F	r al	2 2	ai F	al	⊢ al	ai 2	r al	ND	ai N	ai *1	oF	ai 1	ai O?			∥ ∠ ∕s N		г	F	г	с.		2	1	di	ND	IN
Klam 37S 08E 18 NW	1133 Plantation S	22-1b 22-1b	PV		r	aı	2		aı	aı	2	aı	ND	IN I		0F		0:	4	. 2	S N	U IN								*2	al	al
Klam 37S 08E 17 NW	1210 Plantation S	22-1b 22-1b	PV																											2	1	al
Klam 37S 08E 07 SE	1295 Plantation S	22-1b	PV																													2
Klam 37S 08E 17 NE	500 Squaw Point	22-1b	DFW								-	0?	0?	U	ND,U	*oF	oF	0?	U	0? ()? *c	F oF	0?	oF	oF	0?	0?	F	oF,CG	oF	oF	-
Klam 37S 09E 16 SE	661 Whiteline Res	22-2e	PV																			2	2	1	oF	1	1	oF	2	1	F	U/o
Klam 37S 09E 16 SE	679 Whiteline Res	22-2e	PV																			al	al	al	al	al	al	al	al	NL	NL	NL/
Klam 37S 09E 19 SE	431 Algoma	22-1a	PV			oF	1	F	1	1	1	1	oF	1	oF	F	oF	F	oF	2 F	/s 2	2	F	1,CD	Ν							
Klam 37S 09E 19 N1/2	549 Algoma	22-1a	PV															al	al	al a	al N	L NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	
Klam 37S 09E 19 SE	801 Algoma	22-1a	PV																						*2	NL	NL	NL	NL	NL	NL	
Klam 37S 09E 19 SE	874 Algoma	22-1a	PV	_																						*F	oF	2	1	F	F	1
Klam 37S 08E 24 NE	670 Algoma	22-1a	PV																			al	al	al	al	al	al	NL	NL	NL	2	1
Klam 37S 09E 18 NW Klam 37S 10E 04 SE	1235 Rattlesnake Point (X) 465 Swan L Rim	22-1a 22-2e	PV BLM				2	U	NI	U	NL	NL	NL	NL	NS	NL	U	NS	NL	NL N	IS N,	U NS	U	NS	U	U	U	NS	U	NS	U	NS
Klam 37S 10E 04 SE	1194 Grizzly Butte Swan L	22-2e 22-2e	BLM				2	U	INL	U	INL	INL	INL	INL	IN S	INL	U	IN S	INL		15 IN,	0 115	U	113	U	U	U	IN S	U	IND	2	oF
Klam 37S 10E 09 SE	1305 Grizzly Butte Swan L	22-2e 22-2e	BLM BLM																												2	al
Klam 37S 11.5E 12 NW	1159 Horton Res	22-2e	FS																											F	oF	oF
Klam 37S 11.5E 22 NW	815 Horton	22-2e	PV																						F	2	1	al	NL	NL	NL	NL
Klam 37S 11.5E 26 NW	1028 Horton	22-2e	PV																						•	-	·	2	2	2	2	2
Klam 37S 14E 10 S1/2	1172 Bly Dump	22-2c	BLM																											oF	1	1
Klam 38S 05E 11 SW	707 Buck L	22-2f	FS																				1	1	F	oF	1	1	1	2	F	A?
Klam 38S 06E 27 SW	561 Spencer Cr	22-2f	BLM																	oF	J o	F 0?	ND,U	N,0?	0?	*oF	oF	1	oF	1	1	1
Klam 38S 08E 18 NW	58 Wocus Marsh	22-1b	PV					-	U/s	al	al	al	oF	al	NL	NL	NL	NL	NL	NL M	IL N	L NL	ND	N								
Klam 38S 07E 12 NW	62 Bear Wallow	22-1b	PV						-	F/s	oF	TD	N																			
Klam 38S 08E 07 NW	75 Caledonia Canal	22-1b	PV									*oF,ND	N																			
Klam 38S 08E 07 NW	84 Caledonia Canal	22-1b	PV											1	al	al	al	al		NL I												
Klam 38S 07E 12 SE	86 Porter Butte (X)	22-1b	PV												al	al	al	al		al i			1 GE,1	TD	N							
Klam 38S 08E 06 SW	87 Caledonia Canal	22-1b	PV												2	1	1	1	2	2			1	2	-1	-1	-1	-1	-1	-1		
Klam 38S 08E 06 SW	99 Caledonia Canal																							2	al	al	al	al al	al 2	al al	al 2	al
VI 000 005 00 0VI		22-1b	PV																									a				
Klam 38S 08E 06 SW	819 Caledonia Canal	22-1b	PV																		. 2	. 2			1	1	2	2		аі с		OF
Klam 38S 08E 06 SW	944 Caledonia Canal	22-1b 22-1b	PV PV																				, E		1	1	al	2	al	F	al	NS
Klam 38S 08E 06 SW Klam 38S 08E 08 NE	944 Caledonia Canal 674 Payne Canyon	22-1b 22-1b 22-1a	PV																		-		F	al 3	1 al oF	1 2 al		2 al 2		al F al F		
Klam 38S 08E 06 SW Klam 38S 08E 08 NE Klam 38S 08E 08 NE	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon	22-1b 22-1b 22-1a 22-1a	PV PV PV PV		07	oF	al	2	F	TD	N												F			1 2 al	al	2 al 2	al	F	al	NS NL
Klam 38S 08E 06 SW Klam 38S 08E 08 NE Klam 38S 08E 08 NE Klam 38S 08E 19 NE	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N	22-1b 22-1b 22-1a 22-1a 22-1a	PV PV PV PV PV	-	0?	oF	al	2 al	F	TD	N	al	al	al	al	al	NL	ND/s	N				F			1 2 al	al	2 al 2	al	F	al	NS NL 2
Klam 38S 08E 06 SW Klam 38S 08E 08 NE Klam 38S 08E 08 NE Klam 38S 08E 19 NE Klam 38S 08E 19 NE	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N 46 Long L N	22-1b 22-1b 22-1a 22-1a 22-1a 22-1a	PV PV PV PV	-	0?	oF		2 al al	F al al	TD al al	N al al	al	al	al	al	al		ND/s al/s				3	F			1 2 al	al	2 al 2	al	F	al	NS NL
Klam 385 08E 06 SW Klam 385 08E 08 NE Klam 385 08E 08 NE Klam 385 08E 19 NE Klam 385 08E 19 NE Klam 385 08E 19 NE	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N	22-1b 22-1b 22-1a 22-1a 22-1a	PV PV PV PV PV PV	-	0?	oF	al	al		al	al							ND/s al/s 1	al	al N 2		3 L NL	F al			1 2 al	al	al 2 0F	al	F	al	NS NL 2
Klam 385 08E 06 SW Klam 385 08E 08 NE Klam 385 08E 08 NE Klam 385 08E 19 NE Klam 385 08E 19 NE Klam 385 08E 19 NE	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N 46 Long L N 47 Long L N	22-1b 22-1b 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	PV PV PV PV PV PV PV	-	0?	oF	al	al		al al	al al	al	al	al		al	al	al/s	al	al N 2		3 L NL al	F al N	al 3	oF	2 al	al al 1	2	al al 2	F al F	al NL 2	NS NL 2 TC
Klam 385 08E 06 SW Klam 385 08E 08 NE Klam 385 08E 08 NE Klam 385 08E 19 NE	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N 46 Long L N 47 Long L N 66 Long L N 66 Long L N	22-1b 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	PV PV PV PV PV PV PV PV	-	0?	oF	al	al		al al	al al	al	al	al		al	al	al/s	al	al N 2		3 L NL al	F al N oF	al 3 F	oF	2 al	al al 1	2	al al 2	F al F	al NL 2	NS NL 2 TC NC
Klam 385 08E 06 SW Klam 385 08E 08 NE Klam 385 08E 19 NE	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N 46 Long L N 47 Long L N 66 Long L N 98 Long L N	22-1b 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	PV PV PV PV PV PV PV PV PV	-	0?	oF	al	al		al al	al al	al	al	al		al	al	al/s	al	al N 2		3 L NL al	F al N oF	al 3 F	oF	2 al	al al 1	2	al al 2	F al F al	al NL 2 al	NS NL 2 TC NC TC
Klam 385 08E 06 SW Klam 385 08E 08 NE Klam 385 08E 19 NE	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N 46 Long L N 47 Long L N 66 Long L N 98 Long L N 1132 Long L N	22-1b 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	PV PV PV PV PV PV PV PV PV PV	-	0?	oF	al	al		al al	al al	al	al	al		al	al	al/s	al 1	al N 2		J NL al I F/s	F al N oF	al 3 F	oF	2 al	al al 1	2	al al 2	F al F al	al NL 2 al	NS NL 2 TC NC NC
Klam 38S 08E 06 SW Klam 38S 08E 08 NE Klam 38S 08E 19 NE	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N 46 Long L N 47 Long L N 66 Long L N 98 Long L N 1132 Long L N 1281 Long L N	22-1b 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	PV PV PV PV PV PV PV PV PV PV PV	-	0?	oF	al	al al	al	al al 1	al al 2	al 2	al	al F 1 al		al	al	al/s	al 1	al N 2 * oF al ;	- IL N al a I 2 al a	L NL al I F/s	F al N oF TD al 2	al 3 F N	0F 2	2 al	al al 1	2 oF	al al 2 2	F al F al *1	al NL 2 al F	NS NL 2 TC NC TC NC oF
Klam 385 08E 06 SW Klam 385 08E 08 NE Klam 385 08E 08 NE Klam 385 08E 19 NE Klam 385 08E 28 NW	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N 46 Long L N 47 Long L N 47 Long L N 66 Long L N 98 Long L N 1132 Long L N 1281 Long L S	22-1b 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	PV PV PV PV PV PV PV PV PV PV PV	-	0?	oF 1	al	al al	al 2	al al 1 F	al al 2 2	al 2 2 al 1	al oF 1 al 1	al F		al	al 1/s 1 al	al/s	al 1 1 al	al N 2 * oF al ;	- IL N = 1 al a 1 2	L NL al I F/s	F al N oF TD al	al 3 F N	0F 2	2 al	al al 1	2 oF al	al al 2 2 2 al	F al F al *1	al NL 2 al F	NS NL 2 TC NC TC NC oF al
Klam 385<08E 06 SW Klam 385<08E 08	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N 46 Long L N 47 Long L N 48 Long L N 98 Long L N 1132 Long L N 1281 Long L N 55 Long L S 57 Long L S 430 Moore Park 496 Moore Park	22-1b 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a	PV CI CI	-	0?	oF 1	al	al al 2 al	al 2 al	al al 1 F al	al al 2 2 al	al 2 2	al oF 1 al	al F 1 al	al 1 1 al	al F 1 al	al 1/s 1 al 2	al/s 1 1 al	al 1 1 al	al N 2 * oF al ;		3 L NL al I F/s ! al I 1 L NL	F al N oF TD al 2	al 3 F N	oF 2 al 2 N	2 al 1 al	al al 1 1 al 1	2 oF al oF	al al 2 2 al oF	F al F al *1 F	al NL 2 al F al F	NS NL 2 TC NC TC NC oF al oF
Klam 38S 08E 06 SW Klam 38S 08E 08 NE Klam 38S 08E 08 NE Klam 38S 08E 19 NE Klam 38S 08E 28 NW Klam 38S 08E 28 NW Klam 38S 08E 28 NW Klam 38S 08E 36 NE Klam 38S 08E 35 NW	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N 46 Long L N 47 Long L N 66 Long L N 98 Long L N 132 Long L N 132 Long L N 134 Long L N 135 Long L N 138 Long L N 139 Long L N 130 Long C N 55 Long L S 57 Long L S 57 Long L S 430 Moore Park 496 Moore Park 842 Wocus Pass	22-1b 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	PV Cl Cl PV	-	0?	oF 1	al	al al 2 al	al 2 al	al al 1 F al	al 2 2 al F	al 2 2 al 1	al oF 1 al 1	al F 1 al 2	al 1 1 al 2	al F 1 al 2	al 1/s 1 al 2	al/s 1 1 al oF/s	al 1 1 al	al N 2 * oF al ; al N		3 L NL al I F/s ! al I 1 L NL	F al N oF TD al 2 N	al 3 F N al 2	oF 2 al 2	2 al	al al 1	2 oF al	al al 2 2 al oF al	F al F al *1 al F 2	al NL 2 al F al F	NS NL 2 TC NC TC NC oF al
Klam 385 08E 06 SW Klam 385 08E 08 NE Klam 385 08E 08 NE Klam 385 08E 19 NE Klam 385 08E 28 NW Klam 385 08E 28 NW Klam 385 08E 36 NE Klam 385 08E 36 NE Klam 385 08E 36 NE Klam 385 08E 35 NW Klam 385 08E 25 NW	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N 46 Long L N 47 Long L N 66 Long L N 98 Long L N 1132 Long L N 1281 Long L S 57 Long L S 57 Long L S 57 Long L S 430 Moore Park 496 Moore Park 842 Wocus Pass 1065 Lakeshore Drive	22-1b 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a 22-7a	PV PV	-	0?	oF 1	al	al al 2 al	al 2 al	al al 1 F al	al 2 2 al F	al 2 2 al 1	al oF 1 al 1	al F 1 al 2	al 1 1 al 2	al F 1 al 2	al 1/s 1 al 2	al/s 1 1 al oF/s	al 1 al 1 al	al N 2 s al i al N al i		3 L NL al I F/s l 1 L NL I 2	F al N oF TD al 2 N 2	al 3 F N al 2 ND,oF	oF 2 al 2 N 1	2 al 1 1 1	al al 1 1 al 1 2	2 oF al oF 1	al al 2 2 al oF al *F	F al F al *1 al F 2 ND	al NL 2 al F al F 1 N	NS NL 2 TC NC TC NC oF al oF 2
Klam 38S 08E 06 SW Klam 38S 08E 08 NE Klam 38S 08E 19 NE Klam 38S 08E 28 NW Klam 38S 08E 28 NW Klam 38S 08E 28 NW Klam 38S 08E 36 NE Klam 38S 08E 36 NE Klam 38S 08E 36 NE Klam 38S 08E	944 Caledonia Canal 674 Payne Canyon 733 Payne Canyon 18 Long L N 46 Long L N 47 Long L N 66 Long L N 98 Long L N 132 Long L N 132 Long L N 134 Long L N 135 Long L N 136 Long L N 137 Long L N 138 Long L N 139 Long L N 130 Long Payne 430 Moore Park 496 Moore Park 842 Wocus Pass	22-1b 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a 22-1a	PV Cl Cl PV		0?	oF 1	al	al al 2 al	al 2 al	al al 1 F al	al 2 2 al F	al 2 2 al 1	al oF 1 al 1	al F 1 al 2	al 1 1 al 2	al F 1 al 2	al 1/s 1 al 2	al/s 1 1 al oF/s	al 1 al 1 al	al N 2 * oF al ; al N	IL N = 1 al a al a iL N al a I a	3 L NL al I F/s l 1 L NL I 2	F al N oF TD al 2 N	al 3 F N al 2	oF 2 al 2 N	2 al 1 al	al al 1 1 al 1	2 oF al oF	al al 2 2 al oF al	F al F al *1 al F 2	al NL 2 al F al F	NS NL 2 TC NC TC NC oF al oF

Co TRS Location No Name

OREGON NESTS: Some may be	listed in the Washington section if the	breeding territor	v includes	s nests in	both stat	es.																										
Klam 38S 09E 31 NW	682 Moore Park E	22-1a	CI																		I	al	NL	al	NL	al	al	al	al	al	al	NL
Klam 38S 09E 31 NW Klam 38S 09E 31 NW	683 Moore Park E 1066 Moore Park E	22-1a 22-1a	CI CI																			al	al	al	al	al	al	al	al 2	al 2	al 3	al oF
Klam 38S 10E 16 SE	474 Swan L SSW	22-2e	PV			-	2	oF	F	F	al	al	al	al	al	al	al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 38S 10E 21 NE Klam 38S 10E 21 NE	504 Swan L SSW 1040 Swan L SSW	22-2e 22-2e	PV PV								2	1	F	2	1	1	2	F	2d	oF	2	oF	F	1	oF	F	oF	al 1	al 2d	al oF	NL 1	NL 1
Klam 38S 11.5E 09 SE	965 Applegate Spring	22-2e	BLM																								oF	F	2	2	al	NL
Klam 38S 11.5E 09 SE Klam 39S 07E 02 NE	1241 Applegate Spring 30 Round L	22-2e 22-2a	BLM PV	0?	A? F	1	2	1	F	2	1	2	2	1	1	1	F	1	1/s	2	oF	1	2	2	ND*2	oF	1	1	2	1	*1	1
Klam 39S 07E 12 NW	966 Round L Bench	22-2a	PV																								2	1	1	1	F	oF
Klam 39S 08E 05 NE Klam 39S 08E 04 NW	93 Long L W 696 Long L W	22-2a 22-2a	PV PV												U	U	U/s	U	U	U	U	ND,U	N 1	oF	F	oF	al	al	al	al	al	F
Klam 38S 08E 32 NW	943 Long L Valley	22-2a	PV																								1	ND,F	Ν			
Klam 38S 08E 32 NW Klam 39S 08E 04 NW	1039 Long L Valley 1098 Long L W	22-2a 22-2a	PV PV																									*al	ND 1	N 1	oF	ND
Klam 39S 08E 20 SE	85 Indian Spring Ridge S	22-2f	PV										1	ND*O?		N	N															
Klam 39S 08E 20 NW Klam 39S 08E 18 NW	90 Indian Spring Ridge S 92 Indian Spring Ridge	22-2f 22-2f	PV PV											al	al 2	NL ND	N		TD/n													
Klam 39S 08E 18 NW	94 Indian Spring Ridge	22-2f	PV													*1	oF	2	oF	2	F	F	al	al	al	al	al	1	1	al	al	al
Klam 39S 08E 20 NE Klam 39S 08E 20 NW	681 Indian Spring Ridge S 1131 Indian Spring Ridge S	22-2f 22-2f	PV PV																			al	1	2	2	1	F	al	al	al *2	NL 2	NL 2
Klam 39S 10E 04 NE Klam 39S 10E 34 NE	1084 Moyina Hill 979 Nuss L	22-2e 22-2e	BLM PV																								0?	oF	1 1d	2	A?	0? F
Klam 395 10E 34 NE	1264 West Langell Valley	22-2e 22-2e	PV																								0?	OF	Id	2		F
Klam 39S 13E 04 NW	971 Goodlow Mt	22-2d	FS																								2/s	1	1	1	1	1
Klam 38S 13E 35 SE Klam 39S 13E 01 NW	781 Stan H Spring 517 Gerber Res NW	22-2d 22-2d	BLM PV										1,ND/f	f N										1	ND	Ν						
Klam 39S 13E 01 NW	520 Gerber Res NW	22-2d	PV											1	2	al	NL	NL	NL	NL	Ν											
Klam 38S 13E 36 SW Klam 39S 13E 01 NW	852 Lightning 889 Lightning	22-2d 22-2d	BLM BLM																						1	ND 2	*F	F	1	al	al	NL
Klam 39S 13E 01 NW	1115 Lightning	22-2d	BLM																											*2	F,ND	N
Klam 38S 13E 01 NW Klam 39S 13E 01 SW	1276 Lightning 537 Gerber Res NW	22-2d 22-2d	BLM BLM	-												*F	1	2	oF	oF	oF	1	oF	F	2	1	F	F	oF	oF	2	1
Klam 39S 13E 13 NE	636 Frog Camp	22-2d	BLM	_																	al	al	al	al	1	oF	2	2	1	1	F	oF
Klam 39S 13E 12 SE Klam 39S 14E 21 NE	1079 Frog Camp 458 Gerber Res SE	22-2d 22-2d	BLM	A?		oF	3	al	al	1	2	F	2	1	F	2	oF	oF	al	al	al	NL	N						al	al	al	al
Klam 39S 14E 21 N1/2	459 Gerber Res SE	22-2d	BLM	-				1	F	al	al	al	al	al	al	al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Klam 39S 14E 21 NW Klam 39S 14E 16 SW	460 Gerber Res SE 725 Gerber Res SE	22-2d 22-2d	BLM BLM		-	al	al	al	al	al	al	al	al	al	al	al	al	al	F/s	2	oF	1	oF al	NL oF	NL oF	NL F	NL 1	NL 2	NL 1	NL 2	NL F/ND	NL *oF
Klam 39S 15E 26 SW	480 Tull Res	22-2d	FS				0?	1	oF	1	al	*oF	1	oF	1	2	oF	ND	Ν				*al	2	oF	1	2	2	F	oF	oF	0?
Klam 39S 15E 26 SW Klam 39S 15E 26 SW	505 Tull Res 557 Tull Res	22-2d 22-2d	FS FS								*F/s	TD	N					*oF	1	oF	NL	ND	*al	al	al	ND	N					
Klam 39S 15E 35 NW	584 Tull Res	22-2d	FS																	al	oF	1	F	al	al	al	NL	NL	NL	ND		<u> </u>
Klam 40S 06E 34 SW Klam 40S 06E 34 SW	48 Klamath R Canyon 76 Klamath R Canyon	22-2f 22-2f	PV PV			1	oF	1	3	2	al *3	al 2	al al	al al	al al	al NL	1 NL	3 NL	2 NL	2 NL	2 NL	2 NL	2 N	2	2	F	1	1	F	F	F	al
Klam 40S 06E 34 NW	82 Klamath R Canyon	22-2f	PV										1	oF	al	al	al	al	NL	Ν												*0?
Klam 41S 06E 02 NW Klam 40S 06E 34 NW	526 Klamath R Canyon 1156 Klamath R Canyon	22-2f 22-2f	BLM PV												2	3	ND	N												*al	al	NL
Klam 39S 07E 28 NE	446 Klamath R	22-2f	PP			U	U	U	0?	al	al	al	al	al	al	al	ND	N														
Klam 40S 07E 09 NW Klam 40S 07E 05 NE	498 Chase Mt 523 Chase Mt	22-2f 22-2f	BLM BLM							2/s	2	2	2	al 1	al 1	al 1	al oF	al oF	al oF	NL 1	NL F	NL 2	NL F	NL ND	NL N	NL	NL *1	NL 2	NL ND,oF	NL N,O?	NL	ND,-/c
Klam 40S 07E 05 NE Klam 39S 07E 30 NE	766 Chase Mt 1213 Spencer Cemetary	22-2f 22-2f	BLM PV	_																				*1	1	2	NL	NL	NL	NL	NL	ND F
Klam 40S 07E 05 NW	804 Topsy	22-21 22-2f	BLM																						2	2	1	oF	oF	oF	0?	F
Klam 40S 07E 24 SW Klam 40S 07E 23 NE	656 Hamaker Mt 1090 Hamaker Mt	22-2f 22-2f	FWS FWS																			1	1	1	2	oF	F	2	UU	1 NL	U NL	oF NL
Klam 405 08E 31 SW	28 Chicken Hills	22-21 22-2f	FWS	2	2 2	2	2	2	1	1	1	2	1	2	F	3	1	2	al/s	1	2	2	2	oF	ND*oF	al	al	NL	NL	TD	N	INL
Klam 40S 07E 36 SE	31 Chicken Hills	22-2f	FWS																													
Klam 41S 07E 02 SE Klam 40S 08E 31 SW	818 Grenada Chicken 880 Chicken Hills	22-2f 22-2f	ODF FWS																						al	al *1	al 2	al 2	al 2	al 2	NL 1	NL 2
Klam 40S 08E 30 NW Klam 40S 11E 06 NE	572 Bear Valley 616 Stukel Mt	22-2f 22-2e	FWS																1d	1 0?	1 F	2	2	2	2 oF	2	1	1 2,ND	1 *F	F 2	1	oF 1
Klam 40S 10E 12 SE	736 Stukel Mt S	22-2e 22-2e	BLM BLM																	U!	F	2	2	3	0F F	oF	2 al	2,ND al	NL NL	NL	NL	NL
Klam 40S 11E 07 SW	992 Stukel Mt S	22-2e	BLM																							-	1	F	1	oF 1	2	1
Klam 40S 12E 11 NW Klam 40S 13E 18 NW	1101 McFall Res 506 Bryant Mt	22-2e 22-2e	BLM							-	-	1	2	1	2	al/o	N												2	1	2	2
Klam 40S 12E 13 NE	507 Bryant Mt (X)	22-2e	BLM							-	al	al	al	al	al	GE	GE	GE	al	al	al	al	al	GE,F	NL	NL	NL	NL	NL	NL	NL	NL
Klam 40S 13E 18 N1/2 Klam 40S 13E 18 NE	538 Bryant Mt 615 Bryant Mt	22-2e 22-2e	BLM BLM													*oF	1	oF	1	oF	oF al	oF al	NL F	ND 2,ND	N *2	oF	1	1	1	2	2	1
Klam 41S 06E 07 SE	1051 Pony Express	22-2f	BLM																					•		2	-	0?	3	oF	-	1
Klam 41S 07E 03 SE	813 Grenada Flat	22-2f	BLM																						F	2	oF	1	oF	2	3	1

RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04

Klam 41S 07E 15 NE	726 Grenada Butte	22-2f	BLM																				2	1	2	2	1	2	oF	2	1	1
Klam 41S 14.5E 02 NE Lake 24S 13E 25 SE	637 Antelope Res 778 Flat Top	22-2d 22-3a	BLM FS																		oF	-	-	0?	ND,U oF	N,U 2	U 2	NS 1	0?	U 2	- 1	NS 1
Lake 27S 13E 27 SW	580 Oatman Flat	22-3a	FS															-	-	1	2	2	2	F	1	2	1	oF	1	2	2	oF
Lake 29S 14E 05 NE	812 Silver Cr	22-3a	PV																						1	1	2	1	2	ND	N	
Lake 29S 14E 05 SE	1121 Silver Cr	22-3a	BLM																											*2	1	1
Lake 29S 15E 25 NE	811 Dead Indian Rim	22-3a	BLM																						1	F	1	oF	U/n	ND	Ν	
Lake 29S 16E 31 NW	1117 Dead Indian Rim	22-3a	FS																											1	0?	2
Lake 30S 14E 32 S1/2 Lake 30S 14E 32 E1/2	434 Thompson Res 435 Thompson Res	22-3a 22-3a	FS FS		-/i -	al al	0?	al/i al	al al	Fal	al al	al al	al al	al al	al al	al al	al al	CG	NL NL	NL NL	NL NL	NL NL	NL NL	NL NL	NL NL	NL NL	NL NL	NL NL	N N			
Lake 30S 14E 32 E1/2	445 Thompson Res	22-3a 22-3a	SLI			F	-	al	al	CG	F	F			ai F/i	oF/r	oF	oF	F	F	2	2	F	1	F	oF	F	al	oF	oF	1	2
Lake 30S 14E 32 NW	481 Thompson Res	22-3a	FS			•	-	F	F	CG	al	al		al	al	al	NL.	NL.	NL	NL	NL	NL	NL	NL	NL	NL.	NL	NL.	N	0.	·	-
Lake 30S 14E 32 SW	514 Thompson Res	22-3a	FS									al	al	NL	NL	NL	Ν															
Lake 30S 14E 33 SW	534 Thompson Res	22-3a	FS												al	al/s	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	N			
Lake 30S 14E 32 SE	535 Thompson Res	22-3a	FS FS	_											al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL F	N 1	F	F	F
Lake 30S 14E 29 NW Lake 31S 14E 20 SW	1026 West Is 692 Brattain Ridge	22-3a 22-2c	FS																		-	1	2	al	NL	NL	NL	F NL	NL	F NL	N	F
Lake 315 14E 20 SW	755 Brattain Ridge	22-2c	PV																		-		2	2	1	1	2	2	2	1	1	1
Lake 31S 16E 09 NW	482 Winter Rim	22-3a	FS				0?	2	1	2	1	1	2	2	2	2	1	2	2	F	1	2	2	1	0?	1	0?	0?	oF/n	ND	N	
Lake 31S 16E 09 NW	1110 Winter Rim	22-3a	FS																											*oF	0?	1
Lake 32S 14E 31 NW	43 Sycan Marsh	22-2c	PV		al al	2	al	al	al	al	al		NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Lake 32S 14E 31 NW Lake 32S 14E 31 NW	44 Sycan Marsh 78 Sycan Marsh	22-2c 22-2c	PV PV	(D? 1	al	2	2	2	2	ND,F *al	N 2	2	2	1	3	1	2	2	oF	1/s	F	2	1	2	1	1	2	2	2	oF	1
Lake 32S 16E 26 NW	1044 Big Flat	22-20 22-3a	FS								ai	2	2	2		3	- '	2	2	01	1/5		2		2			1	2/n	ND	N	<u> </u>
Lake 32S 16E 26 NW	1111 Big Flat	22-3a	FS																										2/11	*oF	oF	1
Lake 36S 20E 26 NW	552 Bull Meadow	22-3a	FS														oF	1	oF	oF	oF	F	oF	2	2	2	2	2	1	1	1	1
Lake 38S 16E 20 NE	515 Heart L	22-2d	FS										F	1	2	1	1	2	1	1d	3	2	2	2	2	2	2	1	1	oF	1	1
Lake 38S 18E 24 S1/2	516 Cottonwood Res	22-3b	FS										2	F	2	oF	oF	oF	2	1	al	GE,1 1	GE? 1	al oF	al oF	al 1	NL	NL	al,TD/n	N		F
Lake 38S 18E 24 SE Lake 38S 18E 25 NE	618 Cottonwood Res 1149 Cottonwood Res	22-3b 22-3b	FS FS																		*2			OF	OF		3	F	2,ND/n	*oF *al	2 NL	F NL
Lake 39S 17E 22 NE	470 Drews Res	22-3b	FS				0?/s	al	F	oF	2	1	2	F	oF	al	1	al	al	2	al	NL	N							a		
Lake 39S 17E 22 NE	476 Drews Res	22-3b	FS				al	al	al	al	al	al	al	al	al	F	al	1	2	al	1	F	1	F	1	2	2	oF	oF,ND	Ν		
Lake 39S 17E 15 SW	478 Drews Res	22-3b	FS				al	F	al	al	al	NL	NL	NL	ND	Ν																
Lake 39S 17E 22 NE	524 Drews Res	22-3b	FS										*	'al/s	al	ND	Ν															
Lake 39S 17E 22 NW Lake 40S 16E 22 SE	1171 Drews Res 531 South Arm Res	22-3b 22-3b	FS												1/s	oF	oF	ND	N											1	1	1
Lake 405 16E 22 SE	532 South Arm Res	22-3b	FS												al	al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL,0?	NL	NL	NL
Lake 40S 16E 17 SE	542 Strawberry Res	22-3b	FS												C.I.	*al	al	1	oF	1	oF	F	oF	F	F	1	2	U	ND	N		
Lake 40S 16E 22 SE	1173 South Arm Res	22-3b	FS																											2	al	1
Lake 40S 16E 26 NW	1239 South Arm Res	22-3b	FS																												1	al
Lake 40S 17E 27 SW	461 Dog L	22-3b	FS	-		2	al	al	al	al	al	al		al	al	al	al	al	1	oF	2	1	2	F	1	1	1	2	F	2	1	al
Lake 40S 17E 27 SW Lake 40S 17E 27 SW	468 Dog L 469 Dog L	22-3b 22-3b	FS FS				al 2	al 2	al 2	NL 2	NL 2			N F	al	al	al	al	al	ND	N											
Lake 40S 17E 27 SW	477 Dog L	22-3b	FS				al/s	al	NL	NL	NL			N	cii	ai	61	ai	ai	ND												
Lake 40S 17E 27 SW	525 Dog L	22-3b	FS					-						*al	1	1	F	F	al	al	al	al	al	al	al	al	al	al	al	al	al	2
Lake 40S 18E 08 SW	576 Drews Res S	22-3b	FS															-	2	1	2	2	F	2	al	oF	2	2	1	1	1	1
Lake 40S 18E 08 SW Lake 40S 18E 26 NE	817 Drews Res S 843 Venator Cr	22-3b 22-3b	FS FS																						1 *oF	ND F	<u>N</u>	2	oF	oF	2	oF
Lake 40S 21E 09 SW	564 Crane Cr	22-3b	FS															-	F	F	2	oF	oF	F	2	oF	F	1	0F 1	0F 1	U 2	U
Lane 16S 04W 23 SE	655 Willpower	12-1	PV																	-		2	TD	N			-					
Lane 16S 04W 23 SE	740 Willpower	12-1	PV																				oF	1	2	al	TD	Ν				
Lane 16S 04W 23 SE	741 Willpower	12-1	PV																				al	TD	Ν		,	_	-	-		
Lane 16S 04W 23 SE Lane 16S 04E 14 NE	864 Willpower 732 Blue R Res	12-1 12-2b	PV FS																				1	1	1	*3	1	0F	2	3 oF	1 oF	2 0F
Lane 165 06W 33 SW	268 Jones Swamp	12-20 12-2g	FS BLM															2	1	2	1	2	2	2	oF	oF	oF	2/z	1	1	0F F	F
Lane 16S 12W 34 SW	706 Cape Cr	13-1	OPR															-		-			F	2	2	al	al	al	NL	NL	NL	NL/c
Lane 16S 12W 34 SW	730 Cape Cr	13-1	OPR																				al	al	al	al	NL	NL.	NL	NL	NL	NL/c
Lane 16S 12W 34 SW	909 Cape Cr	13-1	OPR																							1	2	2	2	1	1	oF/c
Lane 17S 04W 01 NE	858 McKenzie R Mouth	12-1	PV																							*1	2	2	2	2	2	2 F
Lane 17S 05W 10 NE Lane 17S 05W 20 NE	1258 Orchard Point 188 Fern Ridge Res	12-2g 12-2g	COE COE						1	2	1	1	oF	U	oF	oF	oF	U	U	0?	0?	0?	0?	TD,U	N,0?							F
Lane 175 05W 20 NE	905 Fern Ridge Res	12-2g	COE							2			01	0	U	01	01	0	0	0:	0:	0:	0:	10,0	N,O:	oF	oF	0?	0?	0?	0?	0?
Lane 17S 10W 12 SE	183 Indian Cr	13-2	FS				-	2	oF	1	A?	oF	1	al	al	al	F	al	2	1	1	F	1	1	oF	2	1	1	1	1	A?	F
Lane 17S 10W 13 NE	227 Indian Cr	13-2	FS											1	1	F	al	2	al	al	al	al	al	al	al	al	NL	NL	NL	NL	NL	NL
Lane 18S 01W 03 NW	269 Osborn Knob	12-2b	BLM														-	oF	2	2	2d	1	1	2	2	2	1	2	1	1	2d	1
Lane 18S 02W 17 NE Lane 18S 02W 17 NE	758 Mount Pisgah 972 Mount Pisgah	12-2b 12-2b	CO CO																				-	2	1	2	F *al	al F	2 al	al 1	2 al	1 al
Lane 18S 10W 09 SW	614 Sweet Cr	12-20	FS																		2	oF	oF	2	2	1	1	2	1	2	oF	2
Lane 18S 11W 22 SW	157 Karnowsky Cr	13-2	FS	-	- 1	1	2	1d	1d	oF	2	1	2	1d	1	oF	oF	2	1	F	2	oF	1	oF	1	al	al	1	al	F	0?	 F
Lane 18S 11W 22 SW	290 Karnowsky Cr	13-2	FS							-							-			al	al	al	al	al	al	1	F	al	1	al	al	ND
Lane 18S 12W 35 NE	1036 Siuslaw R Estuary	13-2	PV																									oF	oF	2d	al	al

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

Lane Lane	18S 12W 35 SE 19S 01E 03 NW	1234 Siuslaw R Estuary 974 Fall Cr Res	13-2 12-2a	PV BLM																							2	2d	2d	F	3 oF	1 oF
Lane	195 01E 05 NW	974 Fail Crites 973 Dexter	12-2a	COE																							2	ND	N	F	UF	UF
Lane	19S 01W 09 SE	1038 Dexter	12-2a	COE																							-	*oF	2	2d	1	A?
Lane	19S 01W 24 NE	209 Eagle Rock	12-2a	COE								2	2	1	2	ND	Ν															
Lane	19S 01W 24 W1/2	244 Eagle Rock	12-2a	COE												*F	oF	oF	2	1	2	F	oF	al	NL	NL	NL	NL	NL	NL	NL	NL
Lane	19S 01W 24 E1/2 19S 02W 07 SW	773 Eagle Rock	12-2a	COE PV															F	1	2	2	CG	2 al	2 al	2 al	1 ND	1 N	2	2d	0?	0?
Lane	195 02W 07 SW 195 02W 07 NW	276 Coast Fork Willamette R 739 Coast Fork Willamette R	12-2a 12-2a	PV PV														-	F		2	2	oF	ai 2	2	ai CG	al	ND	N			
Lane	195 02W 06 NW	904 Coast Fork Willamette R	12-2a	PV																			01	2	2	2	2	oF	oF	2	2	1
Lane	20S 01E 10 NE	903 Goodman Cr	12-2a	FS																						1	1	F	2	2	2	1
Lane	20S 01E 11 SE	169 Lookout Point Res	12-2a	FS		-	1	1 2	2 2	0?		al	al	al	ND	Ν																
Lane	20S 01E 13 SW	195 Lookout Point Res	12-2a	FS							al	2	2	1d	oF	oF	al	al	NL	NL	NL	NL	NL	NL	NL	NL	ND	N				
Lane Lane	20S 02E 19 NE 20S 02E 20 SW	257 Lookout Point Res 764 Lookout Point Res	12-2a 12-2a	FS FS													2	2	2	2	1	oF	2	al TD,F	1 N	al	1	al	al	NL	NL	NL
Lane	205 02E 20 SW	892 Schweitzer Cr	12-2a	FS																				10,1		1	al	F	2	1	2	1
Lane	20S 02E 21 SW	879 Lookout Point Rock Cr	12-2a	FS																						F	oF	1	1	oF	1	1
		248 Middle Erma Belle L	12-2a	FS											-	oF	-	0?	-	oF	U	oF	oF	-	0?	ND,0?	N,0?					
Lane	20S 06E 17 S1/2	1042 Middle Erma Belle L	12-2a	FS																								*oF	oF	NL,U	0?	
Lane	20S 03W 01 NW 20S 12W 04 NW	1074 Cougar Mt 1041 Siltcoos R	12-2a 13-2	BLM FS																								2	2	2 F	2 0F	<u>0?</u>
Lane	21S 02W 09 NE	1119 Baker Cr Dorena	13-2 12-2a	BLM																							-	2	2	*oF	2	F
Lane	21S 02W 13 E1/2	170 Dorena Res	12-2a	BLM			1	1 2	2 2	2	F	2	2	2	1	2	1	1	F	ND,oF	N									0	-	<u> </u>
Lane	21S 02W 13 E1/2	602 Dorena Res	12-2a	BLM																7-	*F	F	1	ND	Ν							
Lane	21S 03W 13 W1/2	784 Dorena Res	12-2a	BLM																				oF	0?	oF	oF	oF	oF	al	NL	NL
Lane	21S 02W 13 SE	1106 Dorena Res	12-2a	BLM											-														al	1	0?	1,TD
Lane	21S 03W 31 NE	218 Cottage Grove Res	12-2a	PV									oF	oF	F	2	2	ND *1	N E Au	2	F	al	ND	N								
Lane Lane	21S 03W 31 NE 21S 03W 31 NE	263 Cottage Grove Res 694 Cottage Grove Res	12-2a 12-2a	PV PV														*1	F/v	2	F	al *oF	ND 1	N 2	2	2	1	1	2	1	al	al
Lane	21S 03W 31 NE	1192 Cottage Grove Res	12-2a	PV																		0.		-	-	-	·		-		1	oF
Lane	21S 02E 13 NE	275 Ferrin	12-2a	FS														-	F	1	al	al	al	F	F	1	al	al	F	0?	0?	-
Lane	21S 02E 13 NE	621 Ferrin	12-2a	FS																	*F	oF	oF	al	al	al	F	F	al	al	al	-
Lane	21S 03E 35 SE 21S 05.5E 36 SE	640 Way Cr 277 Waldo L	12-2a 12-2a	FS FS															F	-5	oF	1 U	1 oF	2 0F	1 0F	2 0?	2 0?	2	F	F	oF	1
Lane	215 05.5E 36 SE 22S 03E 33 SE	186 Hills Cr Res	12-2a 12-2a	FS				0	? 2	d 2/s	2d	2	2	al	al	NL	N	-	*al	oF	2	3	2	2	2	3	2	1	2	0?	- 0?	ND,0?
Lane	225 03E 33 SE	187 Hills Cr Res	12-2a	FS					· 2		al	al	al	al	al	NL	N		ai	ai	2	5	2	2	2	5	2		2	0:	01	ND,O:
Lane	22S 03E 33 SE	226 Hills Cr Res	12-2a	FS					-	-		-		A?	al	NL	NL	Ν														
Lane	22S 03E 33 SE	239 Hills Cr Res	12-2a	FS										*al	2	1	2	2	oF	F	NL	NL	NL	NL	NL	NL	NL	NL	NL	N		
Lane	22S 06E 31 NW	902 Gold L	12-2a	FS																						0?	oF	oF	U	oF	-	oF
Linc Linc	10S 11W 20 NE 07S 11W 12 NE	1020 Iron Mt 222 Devils L	13-1	DOT PV									1	2	2	1	1	2	oF	ND	N							F		2		2
Linc	07S 11W 12 NE	281 Devils L	13-1	PV										2	2	1	'	-	al	oF	oF	1	2	1	2	2	2	oF	oF	2	2	1
Linc	07S 11W 35 NW	173 Siletz Bay	13-1	PV	2 1	2	TD,U	N																								
Linc	07S 11W 35 NW	153 Siletz Bay	13-1	PV		al/s	U	al a	il N	D N																						
Linc	08S 11W 02 NE	180 Siletz Bay	13-1	PV				2 1	2	d 2	1	2	2	1	3	2	ND*oF	1	1 d	2	2	1	2	F	1	2	oF	1	F	oF	oF	NL
Linc	07S 11W 35 NW 08S 11W 32 NE	1270 Browns Hill 907 Fogarty Cr	13-1 13-1	FWS PV																						oF	2d	1	1	2d	- 1	2
Linc	09S 11W 17 SW	279 Whale Cove	13-1	PV															A?	al	al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL
Linc	095 11W 20 NW	289 Whale Cove	13-1	OPR															<i>.</i>	1	2	ND	c.	Cit.								
Linc	09S 11W 20 NW	653 Whale Cove	13-1	OPR																		2	1	F	al	al	2	1	2	2	2	2
Linc	09S 11W 20 NW	844 Whale Cove	13-1	OPR PV																					*1	2	al	NL 1	NL	NL	NL	NL
Linc	11S 11W 14 NW	990 Sallys Bend																							N.I.	NL	0?	1 NL	1 NL	2 NL	1	1
			13-1		* 2) r	2	۹ ۲ -		1 1	۹۲	2	2	1 d	г	٥Ľ	٥Ľ	ما	NII	NIL	NIL	NIL	NIL				NL	INI			NL	NL
Linc	11S 11W 28 SE	154 Yaquina Bay	13-1	PV	A?		2 al	oF a			oF	2 al	2 ND	1d N	F	oF	oF	al	NL	NL	NL	NL	NL	NL	NL	INL						
Linc Linc Linc					A? -	? F al	2 al	oF a al 1			oF al	2 al	2 ND	1d N	F	oF	oF	al 2	NL 2	NL 2	NL 2	NL 2	NL 1	NL oF	2	oF	al	al	al	al	al	NL
Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay	13-1 13-1 13-1 13-1	PV PV PV PV	A? -										F	oF	oF										al 2				2	NL 2
Linc Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 36 NW	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 1231 Boone Slough	13-1 13-1 13-1 13-1 13-1	PV PV PV PV PV	A? -										F	oF	oF		2	2	2	2	1	oF *al	2 al	oF al			al	al		
Linc Linc Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 36 NW 12S 09W 13 SW	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 1231 Boone Slough 274 Grant Cr	13-1 13-1 13-1 13-1 13-1 13-1 13-1	PV PV PV PV PV FS	A? -										F	oF	oF		2 F	2 al	2 al	2 al	1 al	oF *al	2 al ND	oF al N	2	al 1	al 2	al 2	2 oF	2
Linc Linc Linc Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 36 NW 12S 09W 13 SW 12S 09W 13 SW	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 1231 Boone Slough 274 Grant Cr 283 Grant Cr	13-1 13-1 13-1 <u>13-1</u> 13-1 13-1 13-1	PV PV PV PV PV FS FS	A? -										F	oF	oF		2	2	2	2 al F	1 al 1d	oF *al NL 1	2 al ND 1	oF al N 1	2	al 1	al 2 2	al 2 0F	2 oF	2 1 F
Linc Linc Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 36 NW 12S 09W 13 SW	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 1231 Boone Slough 274 Grant Cr	13-1 13-1 13-1 13-1 13-1 13-1 13-1	PV PV PV PV PV FS	A? -										F 0?	0F 0?	0F		2 F	2 al	2 al	2 al	1 al 1d al	oF *al	2 al ND	oF al N	2	al 1	al 2 2 NL	al 2	2 oF 1 NL	2 1 F NL
Linc Linc Linc Linc Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 36 NW 12S 09W 13 SW 12S 09W 13 SW	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 1231 Boone Slough 274 Grant Cr 283 Grant Cr	13-1 13-1 13-1 <u>13-1</u> 13-1 13-1 13-1 13-1	PV PV PV PV FS FS FS	A? -				0	F al	al	al	ND	N				2	2 F *al	2 al F	2 al 2	2 al F al	1 al 1d	oF *al NL 1 al	2 al ND 1 al	oF al N 1 al	2 1 al	al 1 1 NL	al 2 2	al 2 oF NL	2 oF	2 1 F
Linc Linc Linc Linc Linc Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 36 NW 12S 09W 13 SW 12S 09W 13 SW 12S 09W 13 SW 13S 09W 05 SW 13S 11W 07 SE 13S 11W 07 SE	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 1231 Boone Slough 274 Grant Cr 689 Grant Cr 198 Table Mt 156 Alsea Bay	13-1 13-1 13-1 13-1 13-1 13-1 13-1 13-1	PV PV PV PV FS FS FS BLM PV	A? -	al	al	al	0	F al	oF	oF	ND U	N	O? al F	O? NL F	U N al	2 - U al	2 F *al U al	2 al F U NL	2 al 2 U *2 N	2 al F al NS F	1 1d al NS oF	oF *al NL 1 al NS 2	2 al ND 1 al NS 2	oF al N 1 al NS F	2 1 al NS al	al 1 NL NS al	al 2 NL NS 2	al 2 oF NL NS 1	2 oF 1 NL NS F	2 1 F NL NS OF
Linc Linc Linc Linc Linc Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 36 NW 12S 09W 13 SW 12S 09W 13 SW 12S 09W 13 SW 13S 09W 05 SW 13S 11W 07 SE 13S 11W 07 SE 13S 11W 21 SE	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 1231 Bone Slough 274 Grant Cr 283 Grant Cr 689 Grant Cr 198 Table Mt 156 Alsea Bay 199 Alsea Bay 233 Eckman Slough	13-1 13-1 13-1 13-1 13-1 13-1 13-1 13-1	PV PV PV PV FS FS FS BLM PV PV PV	A? -	al	al	al	0	F al	al OF al	al OF al	ND U al	N U al	O? al	0? NL	U N	2 - U al al	2 F *al U al al	2 al F U NL al	2 al 2 U *2 N al	2 al F al NS F al	1 1d al NS oF al	oF *al NL 1 al NS 2 al	2 al ND 1 al NS 2 al	oF al N 1 al NS F al	2 1 al NS al al	al 1 NL NS al al	al 2 NL NS 2 al	al 2 oF NL NS 1 al	2 oF 1 NL NS F al	2 1 F NL NS
Linc Linc Linc Linc Linc Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 36 NW 12S 09W 13 SW 12S 09W 13 SW 12S 09W 13 SW 13S 09W 05 SW 13S 11W 07 SE 13S 11W 07 SE 13S 11W 21 SE 13S 11W 21 NE	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 1231 Boone Slough 274 Grant Cr 689 Grant Cr 198 Table Mt 156 Alsea Bay 233 Eckman Slough	13-1 13-1 13-1 13-1 13-1 13-1 13-1 13-1	PV PV PV PV FS FS FS BLM PV PV PV PV	A? -	al	al	al	0	F al	al OF al	al OF al	ND U al	N U al	O? al F	O? NL F	U N al	2 - U al	2 F *al U al	2 al F U NL	2 al 2 U *2 N	2 al F al NS F	1 1d al NS oF	oF *al NL 1 al NS 2	2 al ND 1 al NS 2	oF al N 1 al NS F	2 1 al NS al NL	al 1 NL NS al NL	al 2 NL NS 2 al NL	al 2 OF NL NS 1 al ND	2 oF 1 NL NS F al N	2 1 F NL NS OF
Linc Linc Linc Linc Linc Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 36 NW 12S 09W 13 SW 12S 09W 13 SW 13S 09W 05 SW 13S 11W 07 SE 13S 11W 21 SE 13S 11W 21 SE 13S 11W 21 SE	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 754 Yaquina Bay 1231 Boone Slough 274 Grant Cr 689 Grant Cr 198 Table Mt 156 Alsea Bay 233 Eckman Slough 253 Eckman Slough 254 Grant Cr	13-1 13-1 13-1 13-1 13-1 13-1 13-1 13-1	PV PV PV PV FS FS BLM PV	A? -	al	al	al	0	F al	al OF al	al OF al	ND U al	N U al	O? al F	O? NL F	U N al	2 - U al al	2 F *al U al al	2 al F U NL al	2 al 2 U *2 N al	2 al F al NS F al	al 1d al NS oF al	oF *al NL 1 al NS 2 al	2 al ND 1 al NS 2 al NL	oF al N 1 al NS F al NL	2 1 al NS al NL F	al 1 NL NS al NL 2	al 2 NL NS 2 al NL NL	al 2 NF NL 1 al ND ND	2 oF 1 NL NS F al N N	2 1 NL NS OF NL
Linc Linc Linc Linc Linc Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 36 NW 12S 09W 13 SW 12S 09W 13 SW 12S 09W 13 SW 13S 09W 05 SW 13S 11W 07 SE 13S 11W 07 SE 13S 11W 21 SE 13S 11W 21 NE	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 1231 Boone Slough 274 Grant Cr 689 Grant Cr 198 Table Mt 156 Alsea Bay 233 Eckman Slough	13-1 13-1 13-1 13-1 13-1 13-1 13-1 13-1	PV PV PV PV FS FS FS BLM PV PV PV PV	A? -	al	al	al	0	F al	al OF al	al OF al	ND U al	N U al	O? al F	O? NL F	U N al	2 - U al al	2 F *al U al al	2 al F U NL al	2 al 2 U *2 N al	2 al F al NS F al	al 1d al NS oF al	oF *al NL 1 al NS 2 al	2 al ND 1 al NS 2 al	oF al N 1 al NS F al	2 1 al NS al NL	al 1 NL NS al NL	al 2 NL NS 2 al NL	al 2 OF NL NS 1 al ND	2 oF 1 NL NS F al N	2 1 F NL OF NL NL 2
Linc Linc Linc Linc Linc Linc Linc Linc	115 11W 28 SE 115 11W 28 SE 115 11W 21 SE 115 11W 21 SE 115 11W 21 SE 115 11W 36 NW 125 09W 13 SW 125 09W 13 SW 135 09W 05 SW 135 11W 07 SE 135 11W 07 SE 135 11W 21 SE 135 11	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 1231 Boone Slough 274 Grant Cr 689 Grant Cr 198 Table Mt 156 Alsea Bay 293 Eckman Slough 259 Eckman Slough 947 Alsea Bay 833 Beaver Cr	13-1 13-1 13-1 13-1 13-1 13-1 13-1 13-1	PV PV PV PV FS FS BLM PV	A? -	al	al	al	0	F al	al OF al	al OF al	ND U al	N U al	O? al F	O? NL F	U N al	2 - U al al	2 F *al U al al	2 al F U NL al	2 al 2 U *2 N al	2 al F al NS F al	al 1d al NS oF al	oF *al NL 1 al NS 2 al	2 al ND 1 al NS 2 al NL	oF al N 1 al NS F al NL	2 1 al NS al NL F	al 1 NL al NL 2 al	al 2 NL NS 2 al NL NL Al	al 2 NF NL 1 al ND ND NL	2 oF NL NS F al N N NL	2 1 NL NS OF NL
Linc Linc Linc Linc Linc Linc Linc Linc	11S 11W 28 SE 11S 11W 28 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 21 SE 11S 11W 36 NW 12S 09W 13 SW 12S 09W 13 SW 12S 09W 13 SW 13S 09W 05 SW 13S 11W 07 SE 13S 11W 07 SE 12S 11W 21 NE 12S 11W 21 NE 12S 11W 21 NE 12S 11W 21 NE 12S 11W 21 NW 12S 11W 19 NW	154 Yaquina Bay 155 Yaquina Bay 260 Yaquina Bay 754 Yaquina Bay 1231 Boone Slough 274 Grant Cr 689 Grant Cr 198 Table Mt 156 Alsea Bay 233 Eckman Slough 233 Eckman Slough 233 Eckman Slough 244 Alsea Bay 233 Eckman Slough 247 Alsea Bay 259 Eckman Slough 247 Alsea Bay 833 Beaver Cr 1027 Ona Beach	13-1 13-1 13-1 13-1 13-1 13-1 13-1 13-1	PV PV PV PV FS FS BLM PV PV	- 	al	al	al	0	F al	al OF al	al OF al	ND U al	N U al	O? al F	O? NL F	U N al	2 - U al al	2 F *al U al al	2 al F U NL al	2 al 2 U *2 N al	2 al F al NS F al	1 1d al NS oF al al	oF *al NL 1 al NS 2 al NL	2 al ND 1 al NS 2 al NL	oF al N 1 al NS F al NL	2 1 al NS al NL F	al 1 NL al NL 2 al 2	al 2 NL NS 2 al NL NL 2 al 2 2	al 2 NF NL 1 al ND ND NL	2 oF NL NS F al N N NL	2 1 F NL OF NL NL 2

Co TRS Location No Name

	isted in the Washington section if the breed	aing territor	y includes	s nests in	both btut	.03.																								
10S 02W 03 SW	1058 Wiseman Is	12-2c	PV																								oF	U	NL	1
10S 02W 03 NE	1125 Wiseman Is	12-2c	PV																								01	U	0?	-
09S 02W 34 SE	1126 Wiseman Is	12-2c	PV																					2	- 5			U	NL	1
10S 02W 28 SW 10S 02W 28 SW	873 Crabtree Cr Mouth 946 Crabtree Cr Mouth	12-2c 12-2c	PV PV																				-	3	oF al	2 NL	oF NL	2d NL	O? NL	
105 02W 25 0W	1187 Simpson Park	12-1	CI																						u.				1d	
10S 03W 32 SE	1267 Second Lake	12-1	CI?																											
12S 03E 31 NE	223 Green Peter Peninsula	12-2c	BLM BLM									2	1	1	2	2	2	1	oF	F	oF	1	oF	F	oF	F	2	F	al	1
12S 03E 32 NW 12S 03E 27 SE	1245 Green Peter Peninsula 285 Fools Treasure	12-2c 12-2c	BLM																FI	ID I	1								2	
12S 03E 27 SE	606 Fools Treasure	12-2c	PV																		oF	al	al	NL	NL	NL	NL	NL	NL	1
12S 03E 33 NE	686 Fools Treasure	12-2c	PV																		al al	2	oF	1	1	F	2	oF	oF	
12S 07.5E 01 SW 12S 07.5E 01 SW	282 Marion L 1226 Marion L	12-2c 12-2c	FS														0?	2	1	oF c	F A?	2	1	oF	2	1	2	F,ND/n	N *1	
12S 02W 02 SE	1059 Lebanon	12-20 12-20	PV																								F	F	al	
12S 02W 01 NW	1189 Lebanon	12-2c	PV?																								·		*1	
13S 03W 27 SW	1179 Sodom Ditch	12-2g	PV																								<u> </u>	-	1	
13S 04W 30 SW	262 Daws Landing	12-1 12-1	OPR OPR														2	2	2	FC	? 0?	CG	al 2d	al 2	CG 2	NL F	NL 2	NL 2d	NL 1d	1
13S 04W 30 NW 13S 01E 25 SW	756 Daws Landing 254 Foster Res	12-1 12-2c	PV													2	1	F	1	2	2 1	2	20	ND	 N	F		20	Id	
13S 01E 25 SW	875 Foster Res	12-2c	PV													-		•	•	-		-	-	*oF	2	2	oF	oF	oF	
13S 01E 29 NE	934 Sweet Home	12-2c	PV																				-	-	2	1	3	2	1	
13S 07.5E 16 SW	896 Lost L Santiam	12-2b	FS PV																					oF	0S,0?	ND,0?	N,0?	N,0?	- *oF	
14S 04W 07 SW 14S 07E 08 E1/2	1228 Irish Bend 245 Clear L Linn	12-1 12-2b	FS												*oF	oF	oF	oF	oF)? (FF	oF	F	ND,0?	N				*oF	
14S 07E 08 SE	969 Clear L Linn	12-2b	FS												0	01	01			·. ·		0				NL,0?	NL,0?	NL,0?	NL,0?	N
15S 02W 20 NW	760 Warner L	12-2g	BLM																		-	2	2	1	F	2d	F	1	NS	1
15S 04W 34 NE	807 Junction City	12-1	PV																				F	2	2	1	oF	al	NL	1
15S 04W 27 SW 15S 04W 34 NE	937 Junction City 1122 Junction City	12-1 12-1	PV PV																						CG	al	TD	N *2	1d	
155 45E 19 N1/2	1148 Birch Cr	14-1	PV																									2	3	
04S 03W 22 NW	1127 Dayton	12-1	PV																									*1	1	,
05S 03W 12 NW	620 Jackson Bend	12-1	PV																-		l al	al	al	al	al	al	al	al	al	
h 05S 03W 01 SW	642 Jackson Bend	12-1	PV																	A	? 0?	3	2	al	al	al	al	al	al	
05S 03W 11/12 N1/2 h 05S 03W 01 SW	728 Jackson Bend 876 Jackson Bend	12-1 12-1	PV PV																		al	al	NL	NL 2	NL 2	NL 3	NL 2	NL 1	NL 3	1
05S 03W 01 SW	1272 Jackson Bend (X)	12-1	PV																					2	2	5	2		5	'
08S 04W 22 SE	806 Independence	12-1	PV																				2	1	2	2	ND,*al	1	2	
08S 04W 23 NW	1052 Vitae Springs	12-1	PV																								*F	ND	N	
09S 01W 16 SE 10S 03W 10 NE	1128 Stayton 1087 Jefferson	12-2c 12-2c	PV PV																								oF	1d oF	-	G
	Mouth: for another Marion Co nest	12-20	ΓV	<	< <	. <	<	<	<	<	<	< <	. <	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	G
	Brook: for another Marion Co nest			<	< <	<	<	<	<	<	<	< <		<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
	s: for another Marion Co nest			<	< <	<	<	<	<	<	<	< <	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
01N 01E 06 NE	1116 Smith L	10-60	CI*																									*oF/g	al 2 (h. m	
02N 01E 31 SE 01N 01E 06 NW	1190 Smith L 1260 Smith L	10-6o 10-6o	CI* CI*																										2/b,p	
01N 02E 11 SE	862 Government Is	10-60	OPR																					oF	al	al	U	U	U	
01N 02E 11 SE	863 Government Is	10-60	OPR																					al	al	al	U	U	U	
01N 02E 14 NE	928 Government Is	10-60	OPR																						1	oF	U	ND	Ν	
01N 04E 29 NE 01N 04E 29 NE	304 Flag Is	10-60	CO															F			J NL,O J NL		N							
01N 04E 29 NE 01N 04E 29 NE	627 Flag Is 795 Flag Is	10-6o 10-6o	CO CO																	al	J NL	10	N oF	2	1	oF	CG,oF	CG,oF	A?	-
01N 04E 29 NE	1100 Flag Is	10-60	co																				U	2	'	01	al	CG	NL	N
01N 05E 32 NE	1076 Latourell Cr	10-60	FS																								oF	2d	oF	
02N 01W 07 NW	802 Fort Williams Bend	10-50	PV																				oF	oF	2	2	2	2	2	,
02N 01W 14 NE	800 Belle Vue Point	10-50	PV																				1	F	2	2	2	2	F	
02N 01W 20 SW 02N 01W 20 SW	820 Burlington 982 Burlington	10-5o 10-5o	CI																				1/L	1	ND oF	N 2	oF	2	1	
02N 01W 28 SW	1230 Sauvie Br	10-50	PV																						0.			-	0?	1
03N 01W 26 NW	1109 Dairy Cr Sauvie Is	10-50	PV																									*2	2	N
03N 01W 26 NE	1314 Dairy Cr Sauvie Is	10-50	PV																											1
03N 01W 34 N1/2	1261 Coon Point	10-50	DFW																						_		<u> </u>			
01S 01E 15 E1/2 01S 01E 15 SE	697 Ross Is	12-1 12-1	PV PV																		1	1	3	F	oF *al	al 2	al 2	ND 1	N ND	
01S 01E 15 SE 01S 01E 15 SE	932 Ross Is 1209 Ross Is	12-1	PV PV																						"dl	4	2	1	ND *A?	
	vmond Cr: for another Multnomah Co nest			<	< <		<	<	<	<	<	< <	<	<	<	<	<	<	<	<		<	<	<	<	<	<	<	<	
See: Washington Co: Ray					· ·																									
See: Columbia Co: Sauvi	e Is: for another Multnomah Co nest				< <		<	<	<	<	<	< <			<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
See: Columbia Co: Sauvi See: Skamania Co WA: C				<	< <	< < < <	<	< < <	< < <	< < <	<		<	<	< < <		<	< < <	<	<	<	<				< < <	< < <	< < <	< < <	

RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

	06S 03W 20 SE	877 Windsor Is	12-1	PV																								2	2	2	F	al	al	
	06S 03W 16 NW 07S 03W 29 SE	1124 Windsor Is 1000 Minto	12-1 12-1	PV PV																										*1	2	*2	2	
	075 05W 29 5E	929 Baskett Slough	12-1 12-2g	FWS																									oF/g	NL	NL	NL	NL	
,	07S 05W 36/25 NE/S	1010 Rickreall Cr	12-2g	PV																										2	1	1	ND	
	07S 05W 36 N1/2 07S 05W 36 NW	1177 Rickreall Cr 1263 Rickreall Cr	12-2g 12-2g	PV PV																													*2	
	075 05W 36 NW	250 Boulder Cr	12-29	BLM														1	1	1	2	F	al	NL	NL	NL	NL	NL	NL	NL	NL	N		
1	07S 08W 29 SW	638 Valley of the Giants	13-1	BLM																			*1	1	oF	1	al	NL	NL	NL	NL	NL	NL	
	07S 08W 29 SW 09S 03W 06 NW	855 Valley of the Giants 1176 American Bottom	13-1 12-1	BLM PV?																							1	1	F	1	2	2	F *2	
	095 03W 06 NW 09S 04W 35 SW	630 Luckiamute Landing	12-1	OPR																			oF/b	U	U	U	oF	ND	N				<u>~</u> 2	-
1	09S 04W 36 NW	808 Santiam R Mouth	12-1	PV																					-		al	2	1	F	1	2	2	
	01N 07W 09 NE 01N 10W 17 SW	1300 Kissing Tree 1243 Barview	13-1 13-1	DOT? PV																													1	
	01N 10W 17 SW	738 Hobsonville Point	13-1	ODF																					2	2	1	1	2	1	ND	N		-
1	01N 10W 27 NW	1073 Hobsonville Point	13-1	ODF																											2	1	1	
	02N 09W 06 NW	145 Nehalem R	13-1	PV				1	0?	0?	F	oF	1 d	oF	2	1	1	2	1	F	oF	2	2	1	oF	ND	Ν							
	03N 09W 31 SW 03N 09W 31 SW	761 Nehalem R 885 Nehalem R	13-1 13-1	PV PV																						*oF	2	al 1	al oF	al al	NL	NL NI	NL NL	
	03N 10W 36 SW	1050 Nehalem R	13-1	PV																									01	2	oF	oF	F	
	03N 10W 01 NW	709 Fall Cr Nehalem	13-1	ODF																					oF	U	U	ND,U		U	NS	NS	NS	
	03N 10W 27 SE 03N 10W 34 E1/2	780 Nehalem 1269 Dean Point	13-1 13-1	PV PV																						1	2	2	2	2	F	oF	oF	
	03N 10W 34 E1/2	1006 Nehalem Bay State Park	13-1	OPR																										oF	1	2	2	_
1	03N 11W 01 SE	190 Cape Falcon	13-1	OPR							oF	U	1	al	1	1d	1	oF	ND	Ν														
	03N 11W 01 SE	204 Cape Falcon	13-1	OPR										F	al	al	al	al	oF	1	F	al	al	al	NL	ND	Ν	_						
	03N 11W 01 SE 03N 11W 01 SE	280 Cape Falcon 994 Cape Falcon	13-1 13-1	OPR OPR																	*al	1	oF	F	1	1	oF	oF	NL F	NL 1	NL F	NL oF	NL 2	
	03N 11W 01 SE	1120 Cape Falcon	13-1	OPR																											r	al	al	
	01S 09W 12 SE	176 Little N Fork Wilson R	13-1	BLM				U	U	A?	NL,U	0?	0?	0?	NL,U	0?	NL,U	0?	NL,U	NL,U	NL,U	0?	NS	NS	NS	NL,U	NS	NS	NS	NS	NS	NL,U	NL,U	-
	01S 10W 11 NW	762 Kilchis Point	13-1	PV																						oF	al	al	al	al	al	ND	N	
	01S 10W 14 SE 01S 10W 14 SE	814 Hall Slough 1151 Hall Slough	13-1 13-1	PV PV																							1	1	2	1	2	ND *2	N 2	
	01S 10W 16 SE	174 Tillamook Bay	13-1	PV	*2	U	1	TD	Ν																									_
,	01S 10W 16 NE	146 Tillamook Bay	13-1	PV			al	al	ND	Ν	TD																							
	01S 10W 16 SE	147 Tillamook Bay	13-1	PV				*2	1	2	2	F	1	1/s	F	oF	F	oF	oF	oF	al	al	al	NL	N								+0	
	01S 10W 16 SE 01S 10W 16 SE	264 Tillamook Bay 872 Tillamook Bay	13-1 13-1	PV PV																*al	2	2	1	1	oF	1	2	al F	NL 2	NL F	N F	2	*2 al	
	01S 10W 31 NE	963 Netarts	13-1	PV																									F	1	2	1	1	-
	01S 11W 13 NE	211 Cape Meares	13-1	FWS										oF/s	oF	oF	oF	al	ND	Ν														
	01S 11W 18 NW 01S 11W 18 NW	247 Cape Meares	13-1 13-1	FWS FWS														F	1	2d	1 d	al 2	NL	NL 2	N ND,oF	N								
	015 11W 18 NW	288 Cape Meares 763 Cape Meares	13-1	OPR																		2	2	2	ND,0F	oF	NL	NL	NL	NL	NL	NL	NL	
	01S 10W 18 NW	786 Cape Meares	13-1	OPR																						al	2	1	oF	oF	oF	1	oF	
	01S 11W 13 NE	1304 Cape Meares	13-1	OPR																														
	01S 11W 13 SE 02S 09W 06 SW	1242 Short Beach 1095 Anderson Cr	13-1 13-1	OPR PV																												al	2 NL	_
	025 09W 06 SW	1103 Anderson Cr	13-1	PV																											al	3	2	
	02S 10W 17 NE	1012 Whiskey Cr	13-1	PV																										oF	F	oF	0?	
	03S 07W 17 NE	148 Elk Cr	13-1	BLM	1	2	oF	al	al	al	1	F	F	F	F	F	F	F	oF	F	F	oF	oF	oF	U	U	U	U	U	U	U	U	U	
	03S 07W 21 NW 03S 07W 17 NE	150 Elk Cr 149 Elk Cr	13-1 13-1	BLM BLM	al	al	al	al 2	al 1	al 1 d	al ND	al N	al	al	al	al	al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	
	03S 10W 32 NW	200 Reneke Point	13-1	FS				2		Tu	ND		1	al	al	al	al	al	2	2	2	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	-
	03S 10W 32 NW	207 Reneke Point	13-1	FS										1/s	oF	ND,F	Ν		*al	al	al	2	2	2	2	2	al	al	2	1	1	oF	F	
	03S 10W 32 N1/2	231 Reneke Point	13-1	FS												*al	1	1	NL	NL	NL	NL	NL	NL	NL	NL	NL 1	NL	NL	NL NI	NL NI	NL NI	NL NI	
	03S 10W 32 NW 03S 11W 02 SW	810 Reneke Point 175 Cape Lookout	13-1 13-1	FS OPR				oF	1	1	oF	oF	oF	U	al	al	al	U	ND	N									dl	INL	INL	NL	NL	—
	03S 11W 01 NW	220 Cape Lookout	13-1	OPR				0.	•		0.	0.	0.	0	1	1d	1	U	oF	oF	F	al	al	al	al	F	1	2	al	NL	NL	NL	2	
	03S 11W 02 W1/2	255 Cape Lookout	13-1	OPR															al	al	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	
	03S 11W 01 NW 03S 11W 01 NW	287 Cape Lookout 986 Cape Lookout	13-1 13-1	OPR OPR																		1	1	2	2	al	al	NL	al 1	NL 2	NL 2	NL 1	NL NI	
	05S 10W 06 NE	151 Cannery Hill	13-1	PV	A?	al	-/s	al	al	al	al	ND	N																			<u>'</u>	INL	
	05S 10W 03 E1/2	152 Salal Point	13-1	FS		A?	-	1	F	1	F	ND	N																					
	05S 10W 03 E1/2	194 Salal Point	13-1	FS								F	2	1	F	2	F	oF	0?	0?	oF	oF	oF	ND	Ν									
	04S 10W 33 SW 04S 10W 30 NE	671 Nestucca Bay E 1081 Brooten Mt	13-1 13-1	PV PV																				1	0?	1	1	1	1	1	ND 2	N	2	
	06S 11W 02 NW	607 Proposal Rock	13-1	FS																			F	oF	oF	NL	NL	NL	NL	NL	NL	R NL	NL	
																										1	F	NL	NL		NL	NL	NL	
	06S 11W 02 NE 06S 11W 02 NW	791 Proposal Rock	13-1	FS FS																							г	NL *2	NL	NL	NL	INL	INL	

RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

Co TRS Location

No Name

NICE NIC	ON NESTS: Some may be	listed in the Washington section if the b	preeding territory	v includes	s nests in both states	5.																									
NICE NIC	06S 11W 10 SE	179 Cascade Head	13-1	FS		0?	1d	oF	oF	al	al	al	ND	N																	
W104 32 Cocces brang 11 P2 P3 P4 P4 <td>06S 11W 10 SE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>al</td> <td></td>	06S 11W 10 SE										al																				
W1000 P1000 P1000 <th< td=""><td>06S 11W 10 SE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>1</td><td></td><td></td><td></td><td>1</td><td>al</td><td>al</td><td>al</td><td>al</td><td>al</td><td>al</td><td>al</td><td>al</td><td>al</td><td>al</td><td>al</td><td>al</td><td>2</td><td>F</td><td>2d</td><td>F</td></th<>	06S 11W 10 SE									2	1				1	al	al	al	al	al	al	al	al	al	al	al	al	2	F	2d	F
100 1	06S 11W 10 SE														al	1	oF	oF	F	1	oF	oF	oF	oF	NL	NL	NL	NL	NL		NL
W O I I I N O I I	06S 11W 10 SE														al	al			al	NL											
101119 105 <t< td=""><td>06S 11W 10 E1/2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	06S 11W 10 E1/2																														
181 18 w 197 work	06S 11W 10 SE																						c.	c.	0.	0.	•	c.	c.		
181 18 w 197 work	04N 29E 31 SE																											oF.CG	U	TD.U	NS
Bit Sign 77	05N 28E 18 NW																												<u> </u>		
Bit	05S 38E 25 Cent																														2
32:12 33:1 See Looper Adving 0.1 P V V V V V <	06S 38E 16 SW																							1	oF	F	oF	F	oF	1	2
2213 100 Province location 001 Province location Province l	02N 42E 32 SW																02	۹Ľ			CE							<u>ا</u>		<u>ا</u>	<u>د</u>
22110 1000 100000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 10000000 10000000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>U</td><td>01</td><td>OF</td><td>U</td><td>U</td><td>GE</td><td>U</td><td>U</td><td>U</td><td>г</td><td>2</td><td></td><td></td><td></td><td>dl</td><td>dl</td></t<>																U	01	OF	U	U	GE	U	U	U	г	2				dl	dl
Signed Part Part Part Part Part Part Part Part																											~2				
aff A 50 aff A 50	01N 42E 10 NE																											*2	2	2	1
MC 12 MG Core Mone (MA7)PS <td></td>																															
Set 2 Set 4 Wind Mich C Pi	03N 40E 14 SW																				U	NS	0?	0?	NS	A?	oF	oF	ND,U	-	0?
1318 1318 1300 100 <t< td=""><td>03N 40E 12 NW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	03N 40E 12 NW																														
BC1 500 CO Joseph OH OH OH P O OH P O OH P O	05N 42E 23 SW		09-1														oF	0?	U	U	U	NS	ND,U	N,U	NS	NS	NS	NS	NS	NS	0?
Ref 18 or TYD Sole P 25 10 0 0 0	05N 43E 09 SW	1183 Peacock	09-1	PV																											2
Ref 18 or TYD Sole P 25 10 0 0 0	02S 45E 19 SW	600 Joseph	09-1	CI															-	1/a	2	3	1	ND.F	Ν						
987 Mikes L 993 Mikes L 991 A 990 Mikes L 991 Mikes L	02S 45E 19 SW																								2	2	3	2	2	CG.U	U
Site	03S 45E 17 NE			DV/				-			11	Ш		-	02	11	Ш	Ш	Ш	11	00	CG 02	Ш		Ш	Ш	11	11	II/c		05
107 Wildow L 091 054 054 054 05 <td></td> <td>0</td> <td>0</td> <td></td> <td>0/0</td> <td>05</td> <td>05</td>											0	0																	0/0	05	05
3670 m 1670 m 0															ai/ 5	0	U	0	0	0	U	INL	INL	INL	INL	INL	ND	IN IN		*2	2
3217 1045 Cota Parto 1070 P/7																															
38.17 10.28 Obsequence 10.20 0.8																												-	_		
28 33 8 1033 8 8 adge C 11 2 0 PW -	02N 13E 17 NW																											2	2	F	
1108 Mode Nees 1-2e PS PS <td>02N 13E 17 NW</td> <td></td>	02N 13E 17 NW																														
926 68.4 797 Clart Latrice 11-26 FS	03S 12E 33 SE																											1	1	1	2
86 24 M. 1244 Includy L 12-2e 85 42 10 M. 81 Tue L. Bow 11-2e. 937	04S 11E 10 NW	1168 Rock Cr Res	11-2c	FS																										2	oF
42 0 m 62 1 mL Low 11-2c WST WST WST N	05S 09E 06 NE	797 Clear L Butte	11-2c	FS																				oF	oF	0?	oF	1	1	1	oF
419 NM 910 Tube Leoni 11-2e WST 01 12 12 01 12 12 01 12 01 12 12 01 12 12 01 12 <	05S 08E 24 NE	1244 Timothy L	12-2e	FS																											al
419 NM 910 Tube Leoni 11-2e WST 01 12 12 01 12 12 01 12 01 12 12 01 12 12 01 12 <	07S 14E 20 NW	821 Tule L Bowl	11-2c	WST																					oF	ND	N				
4f 19 NW 389 Yamp Springs R 11-2c WS 1 V	07S 14E 19 NE																								0.	1	F	1	2	oF	2
3190 05 82 10 25 80 payon bay G 12 20 8.14	08S 14E 19 NW													02	oF	oF	02	11	11	11	11	11	oF	1	oF	i	ii ii	- ii	11	11	11
34W 35 SE 1180 Killin Wetlands 12-20 PV V PT V	02N 03W 05 SE													0:	01	01	0:	0	0	0	0	0	01	<u> </u>	01	0	0		-	-	
2222 28 W 126 scappose 10-50 P/																												01	0	0	
125 Separate 10-5 FW F 0F F N *1 1 al al al al												- 5	-1	- 1	-	-		ND	N												
2222 75 w 141 Raymond Cr 105.0 B/M B/M												OF					-														
2202 25 W 1201 8ymond Cr 1505 BUM BUM													F	OF	F	N		*I	1		al							ND			
2270 6 SW 834 Jackson Bottom 12-2d 0 -	03N 02W 27 SW																			1	F	F	1	F	1d	1	2	1	1	F	
2200 6 SW 1044 ackson Bottom 12-2d 0	03N 02W 27 SW																														*2
2240 6 spm 12-24 pkgs i 12-24 pkgs i </td <td>01S 02W 06 SW</td> <td>834 Jackson Bottom</td> <td>12-2d</td> <td>CI</td> <td></td> <td>*oF</td> <td>GH,oF</td> <td>1</td> <td>F</td> <td>ND</td> <td>N</td> <td></td>	01S 02W 06 SW	834 Jackson Bottom	12-2d	CI																					*oF	GH,oF	1	F	ND	N	
33W 0 R W 865 Ferhill Wetlands 12-2d PV -	01S 02W 06 SW	1054 Jackson Bottom	12-2d	CI																									*2	2	1,ND
1034 04 Prv v	01S 02W 06 SW	1247 Jackson Bottom	12-2d	CI																											*al
135112 742 Hagg L 12:2d PV 2 1 ND N 158113 172 837 Hagg L 12:2d PV 2 1 3 of 2 1 ND N 12 2 1 3 of 2 1 ND NL NL <td< td=""><td>01S 03W 08 NW</td><td>865 Fernhill Wetlands</td><td>12-2d</td><td>PV</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>F</td><td>F</td><td>al</td><td>2</td><td>al</td><td>F</td></td<>	01S 03W 08 NW	865 Fernhill Wetlands	12-2d	PV																						F	F	al	2	al	F
135112 742 Hagg L 12:2d PV 2 1 ND N 158113 172 837 Hagg L 12:2d PV 2 1 3 of 2 1 ND N 12 2 1 3 of 2 1 ND NL NL <td< td=""><td>01S 03W 08 NW</td><td>1004 Fernhill Wetlands</td><td>12-2d</td><td>PV</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>*F</td><td>al</td><td>2</td><td>al</td></td<>	01S 03W 08 NW	1004 Fernhill Wetlands	12-2d	PV																								*F	al	2	al
SMN 13/12 837 Hagg L 12-2d PV - <td>01S 05W 13 S1/2</td> <td></td> <td>2</td> <td>1</td> <td>ND</td> <td>N</td> <td></td> <td></td> <td></td> <td></td> <td></td>	01S 05W 13 S1/2																						2	1	ND	N					
111 M 19 SE 869 Oricken Cr 12-2d PV - - - 07/y NS NL	01S 05W 13 S1/2																						-			1	2	1	2	oF	2
33:15 NE 63:5 Fogiano Ranch 09-2 PV - - 07.9 NS NL	02S 01W 19 SE																								۲.	F	0E	02	ND 02		02
33:14 MW 792 Follow Ranch 09-2 PV V 2 NL <																					02.6.	NC	NC	NU	NU						
44:27 NW 599 Rock Cr L 09-2 FS I al al <th< td=""><td>11S 23E 15 NE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>U?/y</td><td>N5</td><td>N5</td><td>NL</td><td></td><td></td><td></td><td>NL</td><td></td><td></td><td></td></th<>	11S 23E 15 NE																		-	-	U?/y	N5	N5	NL				NL			
444 28 NE 667 Rock Cr L 09-2 FS V<	11S 23E 14 NW																							2				1	-		
44.2 7 NW 807 Rock Gr L 09.2 FS -<	13S 24E 27 NW																		1	F	1										
Affe Z P NM 104 Rock Gr L 09-2 FS FS Set 104 Rock Gr L 09-2 FS NL All P NL Affe To C Jackson Bend: for Yamhill Conests V <	13S 24E 28 NE		09-2																			1	1	1	2	al		NL	NL	NL	
44: 27 NV 1014 Rock Gr L 09:2 FS - a	13S 24E 27 NW																									1	A?	1	oF		
N3W3 10W 1259 Chehalem Cr 12-2g PV	13S 24E 27 NW		09-2	FS																									al	2	NL
N3W3 10W 1259 Chehalem Cr 12-2g PV	See: Marion Co: Jackson	n Bend: for Yamhill Co nests			< < <	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
121 PV of 2 al NL NL 12W 30 NE 1063 Spring Brook 12-1 PV *2 3 10 8 3	02S 03W 31 NW		12-2a	PV																											
1201333 NE 1063 Spring from 0 12-1 PV V V2 2 2 15534E1/2 1181 Brightime Monastery 12-2g PV <	03S 02W 30 SE																										oF	2	al	al	NI
SEE 34 E1/2 1181 Brightine Monastery 12-2g PV oF SEE 34 E1/2 1184 Brightine Monastery 12-2g PV al INESTS: Some may be listed in the Oregon section if the breeding territory includes nests in both states. al INV 04 NW 0144-1 Cape Disappointment WA 10-1w WSP - - - al	03S 02W 30 3L																										01	-		2	2
1184 Brightine Monastery 12-2g PV al INESTS: Some may be listed in the Oregon section if the breeding territory includes nests in both states. 11W 04 NW 0144-1 Cape Disappointment WA 10-1w WSP - - - al																													6	6	<u>د</u>
INESTS: Some may be listed in the Oregon section if the breeding territory includes nests in both states. INV 04 NW 0144-1 Cape Disappointment WA 10-1w WSP		1184 Brighting Monastery																													
11W 04 NV 0144-1 Cape Disappointment WA 10-1w WSP		× ,	Č.		as nosts in both state																										di
11W 04 NW 0144-2 Cape Disappointment WA 10-1w WSP 1 oF 2 oF al			-	-																											
11W 04 NW 0144-3 Cape Disappointment WA 10-1w WSP al 2 1 al al al al al al AL NL NL NL NL NL 11W 09 NW 0144-4 Cape Disappointment WA 10-1w WSP 1 2 al 1d 1 oF al al NL 11W 04 SW 0144-5 Cape Disappointment WA 10-1w WSP 1 d al						-	-	-	-	-	al							1	F		1								F	1	
1 W 09 NW 0144-4 Cape Disappointment WA 10-1w WSP 1 al 1d 1 oF al al NL 11W 04 SW 0144-5 Cape Disappointment WA 10-1w WSP 1 d al al al al NL	09N 11W 04 NW	0144-2 Cape Disappointment WA	10-1w								1	oF	2	oF			al	al			al		al		NL		NL	NL	NL		NL
1 W 09 NW 0144-4 Cape Disappointment WA 10-1w WSP 1 2 al 1d 1 oF al al NL 11W 04 SW 0144-5 Cape Disappointment WA 10-1w WSP 1 1d al al al al NL	09N 11W 04 NW	0144-3 Cape Disappointment WA	10-1w	WSP										al	2	2	1	al	al	al	al	al	al	al	al	NL	NL	NL	NL	NL	NL
11W 04 SW 0144-5 Cape Disappointment WA 10-1w WSP 1d al al al Al NL	09N 11W 09 NW		10-1w	WSP																			1	2	al						
																									1d		al		al		
			10-1w	WSP																											

RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

Paci	09N 11W 09 NW	0144-4	Cape Disappointment WA	10-1w	WSP							1	2	al	1d	1	oF	al	al	NL	NL	
Paci	09N 11W 04 SW	0144-5	Cape Disappointment WA	10-1w	WSP									1d	al	al	al	al	al	NL	NL	
Paci	09N 11W 04 NW	0144-6	Cape Disappointment WA	10-1w	WSP															*al	NL	
Paci	09N 11W 04 NW	0144-7	Cape Disappointment WA	10-1w	WSP																2	
Paci	09N 11W 09 SE	1178-1	Fort Canby WA	10-1w	CG					-	-	-	1	1	1	oF	al	al	al	al	NL	

Co TRS Location

No

Name

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

Paci 09N 11W 09 SE	1178-2	Fort Canby WA	10-1w	CG																							oF	F	al	al	2
Paci 09N 11W 09 SE	1178-3	Fort Canby WA	10-1w	CG																									F	oF	al
Paci 10N 11W 36 SE	1248-1	Stringtown WA	10-1w	PV																					2d	oF	2	1	2	2	1
Paci 09N 10W 08 SE	0569-1	Chinook WA	10-1w	PV															2	-	2	F ND,C									
Paci 09N 10W 08 SE	0569-2	Chinook WA	10-1w	PV																			F	oF	F	al	al	ND	N		
Paci 09N 10W 08 SE	0569-3	Chinook WA	10-1w	PV																				*al	al	al	al	U	ND	N	
Paci 09N 10W 08 SE	0569-4	Chinook WA	10-1w	PV																						*F	1	U	U	ND.U	N
Paci 09N 10W 17 NW	0569-5	Chinook WA	10-1w	PV																											al
Paci 09N 10W 17 NW	0569-6	Chinook WA	10-1w	PV																											1d
Paci 09N 10W 16 NE	0145-1	Fort Columbia WA	10-1w	WSP		-	-	-		U U	al	al	al	al	al	U	al						NL	NL	NL	NL	NL	al	NL	NL	NL
Paci 09N 10W 16 SE	0145-2	Fort Columbia WA	10-1w	WSP					1	U U	al	al	al	al	al	U	al	al	al	A? F	F/e' F	'e'	NL	NL	NL	NL	NL	NL	NL	NL	NL
Paci 09N 10W 16 SE	0145-3	Fort Columbia WA	10-1w	WSP						U	al	al	al	al	al	U	al						al	al	NL	NL	NL	NL	NL	NL	NL
Paci 09N 10W 16 SE	0145-4	Fort Columbia WA	10-1w	WSP						U	2	al	al	al	al	U	al	_	-				NL	NL	NL	NL	NL	NL	NL	NL	NL
Paci 09N 10W 16 SE	0145-5	Fort Columbia WA	10-1w	WSP								F	1	F	F	U	A?	F	2				NL	NL	NL	NL	NL	NL	NL	NL	NL
Paci 09N 10W 21 NW	0145-6	Fort Columbia WA	10-1w	WSP																		1	F	oF	oF	F	oF	NL	NL	NL	NL
Paci 09N 10W 16 NW	0145-7	Fort Columbia WA	10-1w	WSP																								F	al	NL	NL
Paci 09N 10W 21 NW	0145-8	Fort Columbia WA	10-1w	WSP																									F	NL	NL
Paci 09N 10W 21 NW	0145-9	Fort Columbia WA	10-1w	WSP																										Α?	Α?
Paci 09N 10W 15 NW	0250-1	Megler WA	10-2w	PV	0?					_	_	_		_									NL	NL	NL	NL	NL	NL	NL	NL	NL
Paci 09N 10W 24 NW	0250-3	Megler WA	10-2w	PV						F	F	oF	F/e'	F	U	U	al	al	al	al	al	al F	al	F	oF	al	al	al	al	PEFA	PEFA
Paci 09N 10W 24 NW	0250-2	Megler WA	10-2w	PV									al	al	U	-	F	F	1	F		al al	al	al	NL	NL	NL	NL	NL	NL	NL
Paci 09N 10W 23 SE	0250-4	Megler WA	10-2w	PV												U	al	al	al	al		al al F al	al	al al	NL	NL 2	NL 1	NL 1	NL oF	NL	NL
Paci 09N 10W 24 SW	0250-5	Megler WA	10-2w	PV				-	-1		-1	-1	-1	-1	-1	-1					г (er al	F		NL			I NU		oF	oF
Paci 09N 09W 07 SW	0304-2	Cliff Point WA	10-2w	PV PV		-	-	F al	al F	F F al al	al F	al - F	al	al F	al - F	al	U	al			-1		NL F	NL	NL 1 d	NL F	NL al	NL 1 d	NL	NL F	NL
Paci 09N 09W 07 SW	0304-1	Cliff Point WA	10-2w	PV PV				al	F	al al	F	oF al	F/e' al	F al	oF al	oF al	UU	al F	-			al 1 .r		al	1d		-	1d	2d		al
Paci 09N 09W 18 NE	0304-3	Cliff Point WA	10-2w	PV PV						al	aı	aı	aı	aı	a	al	U	F	U	U F U	F/e'	1	NL NL	NL	NL	NL NL	NL NL	NL NL	NL	NL	NL NL
Paci 09N 09W 07 SW	0304-4	Cliff Point WA	10-2w	PV PV																U			al	NL F	NL				NL	NL	al
Paci 09N 09W 07 SW Paci 09N 09W 18 SW	0304-5 0304-6	Cliff Point WA Cliff Point WA	10-2w 10-2w	PV PV																			a	F	al	NL	NL 1	NL	al	al	ai 1d
Paci 09N 09W 18 SW	0565-5	Grays Point WA	10-2w	PV																		F	oF	al	al	al	al	al	oF	oF	F
		/	10-2w		_						F	-1	-1	-	-1			-1				г							NL NL	NL	NL/c
Paci 09N 09W 10 NW Paci 09N 09W 10 NW	0565-1 0565-2	Grays Point WA Grays Point WA	10-2w 10-2w	PV PV						A?	F	al F	al 1	F al	al F	U	- U	al					NL al	NL al	NL NL	NL NL	NL NL	NL NL	NL	NL	NL/C
Paci 09N 09W 10 NW Paci 09N 09W 10 SE	0565-2	Grays Point WA	10-2w	PV								г		dl	г	U	U	-	F				ai NL	NL	NL	NL	NL	NL	NL	NL	NL/C
Paci 09N 09W 10 SE Paci 09N 09W 10 SE	0565-4		10-2w	PV														г	г	1 F	F/e'	F	N	INL	INL	INL	INL	INL	INL	INL	INL/C
Paci 09N 09W 10 SE Paci 09N 09W 10 NW	0565-6	Grays Point WA Grays Point WA	10-2w	PV																· ·	-/e	F	IN	1d	2d	oF	NL	NL	NL	NL	NL/c
Paci 09N 09W 10 NW	0565-7	Grays Point WA	10-2w	PV																				Tu	20	*al	1	2	3	oF	3/c
Paci 09N 09W 01 NW	0479-1	Rocky Point W WA	10-2w	DNR						al	F	U	al	al		al	al						NL	NL	NL	NL	NL	NL	NL	NL	NL
Paci 09N 09W 01 NW	0479-2	Rocky Point W WA	10-2w	PV						al	al	Ű	al	al		al	al						NL	NL	NL	NL	NL	NL	NL	NL	NL
Paci 09N 09W 01 SW	0479-3	Rocky Point W WA	10-2w	PV						F	al	Ű	F/e'	oF	ŭ	al	al	al	F	F	U		NL	NI	NL	NL	NL	NL	NL	NL	NL
Paci 09N 09W 01 SW Paci 09N 09W 01 NW	0479-4	Rocky Point W WA	10-2w	PV							al	U	al	al	ŭ	al	al	ai			0		NL	NI	NL	NL	NL	NI	NL	NL	NI
Paci 09N 09W 01 SW	0479-5	Rocky Point W WA	10-2w	PV							al	Ŭ	al	al	ŭ	F	oF	F	al	al	-	ล 1	oF	oF	al	al	al	al	al	al	NL
Paci 09N 09W 02 SE	0479-6	Rocky Point W WA	10-2w	PV							ai	0	al	al	-	al	al		ai	a			NL	NL	NL	NL	NL	NL	NL	NL	NL
Paci 09N 09W 01 SW	0479-7	Rocky Point W WA	10-2w	PV									ai	a		a	a					F al	al	al	1d	1d	1	2	1	A?	1
Wahk 09N 08W 06 SW	0896-1	Rocky Point E WA	10-2w	PV								F	al	1	F	F	F	oF	al	al	al	al al	al	al	al	al	1	2	1	1d	1
Wahk 10N 08W 31 SW	0896-2	Rocky Point E WA	10-2w	PV								al	1	al	al	al	al	al	1			1 1	F	oF	al	ND	N	-			
Wahk 10N 08W 31 SW	0896-3	Rocky Point E WA	10-2w	PV								c.		c.	cii	u	c.	u .		•			•	0.	*F	oF	NL	NL	NL	NL	ND
Wahk 10N 08W 29 NW	0676-1	Deep R WA	10-2w	PV																		2 F	2	1	F	F	2	2	oF	1d	2
Wahk 10N 08W 32 SE	0897-1	Grays R Mouth WA	10-2w	PV									1	2	F	2	2	F	F	1	1	F al	al	2	F	al	NL	NL	NL	NL	NL
Wahk 10N 08W 32 SE	0897-2	Grays R Mouth WA	10-2w	PV																		F	F	al	al	F	2	al	2	2d	F
Wahk 10N 08W 32 SE	0897-3	Grays R Mouth WA	10-2w	PV																			al	al	al	al	al	2	NL	NL	NL
Wahk 10N 07W 18 NE	0468-1	Grays R Covered Br WA	10-2w	PV															1	1	2	F al	ND	N							
Wahk 10N 07W 18 NE	0468-2	Grays R Covered Br WA	10-2w	PV																		1	F	2	1	3	1	2d	oF	F	ND
Wahk 10N 07W 18 SE	0468-3	Grays R Covered Bridge WA	10-2w	PV																											*oF
Wahk See: Clatsop Co O	regon: Rice Is	WA: for another Wahkiakum Co nest	t		< <	<	<	<	<	< <	<	<	<	<	<	<	<	<	<	<	<	< <	<	<	<	<	<	<	<	<	<
Wahk 09N 08W 09 NW	1313-1	Pigeon Bluff WA	10-2w	PV																						*oF	0?	0?	al	al	al
Wahk 09N 08W 16 NE	1313-2	Harrington Point WA	10-2w	PV																									oF	oF	al
Wahk 09N 08W 09 SW	1313-3	Pigeon Bluff WA	10-2w	PV																											oF
Wahk 09N 08W 15 NE	0249-1	Altoona WA	10-2w	PV							F	al	al	al	al	al	al	al	al	Α?			NL	NL	NL	NL	NL	NL	NL	NL	NL/c
Wahk 09N 08W 14 NE	0249-2	Altoona WA	10-2w	PV								F	oF	F	al	al	al	F					NL	NL	NL	al	NL	NL	NL	NL	NL/c
Wahk 09N 08W 14 NW	0249-3	Altoona WA	10-2w	PV									al	al	F	oF	al						Ν								
Wahk 09N 08W 15 NW	0249-4	Altoona WA	10-2w	PV													F	al	al	al	Call .	al al	al	NL	al	NL	NL	NL	NL	NL	NL/c
Wahk 09N 08W 15 NE	0249-5	Altoona WA	10-2w	PV															F	al	al	al al	al	F	oF	F	F	oF	al	F	al
Wahk 09N 08W 15 NE	0249-6	Altoona WA	10-2w	PV																	1	F 1	F	NL	NL	al	al	al	F	al	1
Wahk 09N 08W 13 NW	1314-1	Dahlia Point WA	10-2w	PV																						oF	oF	oF	oF	NL/0?	NL/0?
Wahk 09N 07W 16 SW	0248-1	Jim Crow Point WA	10-2w	PV		U	al	-	-		F	oF	al	al	al	al	al	U	al	al	al	al U	al	al	al	al	al	al	al	NL	Ν
Wahk 09N 07W 09 ?	0248-2	Jim Crow Point WA	10-2w	PV			oF																NL	NL	NL	NL	NL	NL	ND	Ν	
Wahk 09N 07W 16 SW	0248-3	Jim Crow Point WA	10-2w	PV							al	al	al	al	al	al	al	U	al		F/e' F		oF	al	al	NL	NL	NL	ND	Ν	
Wahk 09N 07W 16 NE	0248-4	Jim Crow Point WA	10-2w	PV	_								F/e'	1	F	A?	1	U	F	F	al	al U	al	al	F	oF	oF	oF	oF	oF	oF
Wahk 09N 07W 10 SE	0248-5	Three Tree Bay WA	10-2w	PV																			al	F	al	al	al	al	al	al	al
Wahk 09N 07W 14 NW	0248-6	Three Tree Bay WA	10-2w	PV																											oF
		Moe Hill WA	10-3w	PV																		F	al	al	al	al	al	al	al	NL	0?
Wahk 09N 07W 12 SE	1114-1	MUE HIII WA	10-3₩	1.4																			-	c.	cii	ai	ai	ai	ai	INL	•.

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05

						-																											
Clat			8 Welch Is W	10-30	FWS																-	_	-		F	2	F	2	oF	2	3d	1d	2
Wahl Wahl		0462-1 0462-2	Price Is WA Price Is WA	10-3w 10-3w	FWS FWS															U	F	F	oF	CG 1	CG 1	al 2	al F	al F	al F	al 2d	al oF	F CG	1 CG
			Hunting Is WA for another Wa		1113	<	< <	<	<	<	<	<	<	<	<	< <	<	<	<	<	<	<	<	<	<	<	<	<	<	< 20	<	<	<
Wahl			g Is WA for another Wahkiaku			<	< <	<	<	<	<	<	<	<	<	< <	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
	k 08N 06W 02 NW		Cathlamet WA	10-3w	FWS																										F	U	oF
Wahl			Lower Elochoman WA	10-3w	PV																		oF	F	F	1	1	F	1	F	0?	U	0?
Wahl			Nassa Point WA	10-3w	PV	_										1	1	1	1	F	2	1	oF	1	U	al	al	al	al	al	oF	U	U
Wahl			Whites Is WA	10-3w	WDW																					2	1	2	1	oF	NL	NL	NL
Wahl	k 08N 05W 19 SE k 08N 05W 19 SE	0995-3 0995-6	Whites Is WA Whites Is WA	10-3w 10-3w	WDW WDW																										*F	al	al 1
Wahl			Whites Is WA	10-3w	WDW	-																										*1d	1
Wahl			Net Rack Slough WA	10-3w	WDW																											Tu	al
Wahl		0995-7	Cut-Off Slough WA	10-3w	WDW																												al
Cowl		Oregon: Aber	nathy WA: for another Cowlit			<	< <	<	<	<	<	<	<	<	<	< <	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Cowl			er Is WA: for another Cowlitz			<	< <	<	<	<	<	<	<	<	<	< <	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Cowl			er Is W WA: for another Cowlin			<	< <	<	<	<	<	<	<	<	<	< <	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Cowl			Martin Is WA	10-4w	PV																					oF	2	2	2	3	2	2d	1
Cowl		1168-1 1416-1	Woodland WA Cowlitz R Mouth WA	10-4w 10-4w	PV PV																				1	1	A?	2	1d	1d 1d	2	1d 1d	2
Cowl		1416-1	Cottonwood Is WA	10-4w	PV																									10	2 U	U	2 U
Cowl			Coweeman R WA	10-4w	PV		1	A?	NL	-	-		NL	ND	N																	0	0
Cowl		0232-2	Coweeman R WA	10-4w	PV		'	<u>A:</u>								2 2									NL	NL	NL	NL	NL	NL	NL	NL	NL
Cowl			Coweeman R WA	10-4w	DNR											-		1							NL	2	1d	oF	oF	2d	1d	2d	oF
Cowl	08N 01W 31 SW	0232-4	Coweeman R WA	10-4w	PV														F	1	2	2	1	F	1	NL	NL	NL	NL	NL	NL	NL	NL
Clar		0784-1	Morgan Farm WA	10-5w	PV								U	2	1	F 2	F	F	al	al	al	al			NL	NL	NL	NL	NL	Ν			
Clar		0784-2	Morgan Farm WA	10-5w	PV														F	oF	F	F			NL	NL	NL	NL	NL	N			
Cowl			Austin Point WA	10-5w	PV														al	al	al	al	owl	al	ND	N							
Cowl			in Point WA: for another Cow			<	< <	<	<	<	<	<	<	<	<	< <	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Clar Clar		0784-3 0784-6	Morgan Farm WA Morgan Farm WA	10-5w 10-5w	PV PV																		1	2	2	oF	F	al	al	N		*oF	F
Clar			Gee Cr WA	10-5w	PV	-																						*1	1	al	al	al	
Clar	04N 01W 11 NW		Gee Cr WA	10-5w	PV																									2	1	2	3
Clar	04N 01W 11 SW	1260-1	North Bachelor Is WA	10-5w	PV																						*2	2	2	2	1	2	2
Clar		Oregon: Bach	elor Is WA: for another Clark			<	< <	<	<	<	<	<	<	<	<	< <	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Clar		1702-1	Lancaster Lake WA	10-5w	PV																												1
Clar		1409-1	Carty Ridge WA	10-5w	PV																									oF	oF	2	al
Clar Clar	04N 01W 13 NE 04N 01W 13 NW	1409-2 1409-3	Carty Ridge WA Carty Ridge WA	10-5w 10-5w	PV PV																									al	al	al	NL 2
Clar	04N 01W 35 NE	1207-1	Mallard Slough WA	10-5w	FWS																					*F	NL	NL	NL	NL	NL	NL	*1
Clar	04N 01W 35 E1/		Mallard Slough WA	10-5w	FWS																					•	*2	2	2	2	2	oF	al
Clar		0271-1	Ridgefield WA	10-5w	FWS													1	al	al					NL	NL	NL	NL	NL	NL	NL	NL	NL/c
Clar	04N 01W 35 SE	0271-2	Ridgefield WA	10-5w	FWS														F	1	2	1			al	al	NL	NL	NL	NL	NL	NL	NL/c
Clar		0271-3	Ridgefield WA	10-5w	FWS																		2	2	NL	NL	NL	NL	NL	NL	NL	NL	NL/c
Clar			Ridgefield WA	10-5w	FWS																				1	al	NL	NL	NL	NL	NL	NL F	al/c
Clar Clar	04N 01W 35 SE	0271-5	Ridgefield WA	10-5w	FWS														1	2	2	-	U	02	N	 U	2	3	1	2	2	<u>F</u>	oF/c
Clar		0381-1	Salmon Cr-Lake R WA Whipple Cr WA	10-5w 10-5w	PV CO														1	2	2	F	U	0?	N,U	U	2	oF	1	1	2	2d	1
Clar		1666-1	Salmon Cr WA	10-5w	CO																						-	0.					oF
Clar		1361-1	Round L WA	10-5w	PV																								oF	oF	U	0?	U
Clar		1536-1	Felida WA	10-5w	PV																											1d	NL
Clar		1536-2	Felida WA	10-5w	PV																												2
Clar		1360-1	Caterpiller Is WA	10-5w	PV																								oF	U	U	U	U
Clar		0435-1	Buckmire Slough WA	10-5w	POV															2	2	2	2	2	al	al	al	al	NL	NL	NL	NL	NL
Clar Clar		0435-2 0435-3	Buckmire Slough WA South Flushing WA	10-5w 10-5w	CO POV																al	al	2	2	2	al 2	al oF	al F	al F	NL NL	NL NL	NL NL	NL NL
Clar	02N 01W 13 NW		South Flushing WA	10-5w	POV																					4	UF	г	F	F	F	1	F
Clar	02N 01E 09 NW	1179-1	Vancouver Junction WA	10-5w	PV																				F	oF	U	ND/U	N/U	0?	0?	0?	U
Clar	02N 01E 36 NE	1511-1	Water Resources WA	10-6w	CI																											2	1
Clar	02N 02E 33 SW	1408-1	Ellsworth WA	10-6w	PV																									1	2	1	F
Clar			Lady Is WA	10-6w	PV																											A?	al
Mult			2 East Government Is	10-60	OPR																												1
Clar		1534-1	Lacamas WA	10-6w	CO																											A?	NL
Clar Clar	01N 03E 01 SW 01N 04E 23 SW	1534-2 1659-1	Lacamas WA Reed Is WA	10-6w 10-6w	WSP WSP																												1 3
	n 01N 06E 06 S1/		Skamania Is WA	10-6w	FS																											2	oF
Skan		1197-1	Franz L WA	10-6w	FWS																					2	2	1	oF	oF	al	ND	N
Mult			0 Oneonta Cr	10-60	FS																					-	-		01	01	oF	1	1
Skan		1647-1	lves Is WA	10-6w	FS																												2
Skan		0213-1	Hamilton Cr WA	10-6w	PV														U	ND	Ν												
Skan	n 02N 07E 18 NW	0213-2	Hamilton Cr WA	10-6w	WSP															2	2	2	2	2	1	1	2	2	2	F	1	F	ND

Co TRS Location No Name RZ Own 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05
--

OREGON NESTS: Some may be listed in the Washington section if the breeding territory includes nests in both states.

Skam	02N 07E 09 SW	1631-1	Greenleaf Cr WA	10-6w	PV											0?
Klic	03N 11E 23 N1/2	1113-1	Catherine Cr WA	10-7w	FS	-	2	al	ND	N					1	oF
Klic	03N 11E 23 NE	1113-2	Catherine Cr WA	10-7w	FS			F	2	1	2	2	2	oF	ND	N
Klic	03N 12E 35 NW	1665-1	Fisher Hill WA	10-7w	FS											F
Klic	02N 14E 15 SE	1664-1	Browns Is WA	10-7w	COE									F	1	1

THE END

Table 1. Bald eagle nest trees added in Oregon (68; 23 at 23 new breeding areas) and the Washington portion of the Columbia River Recovery Zone (19; 5 at 5 new breeding areas). Compiled by Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish And Wildlife Research Unit, Oregon State University, Corvallis.

		Nest Tree	Recovery		
County	TRS Location	Number Name	Zone	Owner	
OREGO	Ν	1247 was the last number used in 2	004.		
Klam	36S 07E W 36 SE	1248 Eagle Hill	22-1b	PV	-
Klam	37S 07E 24 SW	1249 Photographer	22-1b	PV	-
Bake	09S 45E 35 NE	1250 Eagle Cr	14-1	PV	*01
Hood	03N 10E 26 NE	1251 Wells Is	10-7o	FS	-
Mult	01N 03E 17 SE	1252 East Government Is	10-60	OPR	-
Colu	04N 01W 10 SW	1253 Cunningham Slough Mouth		DFW	*02
Colu	08N 04W 15 NW	1254 Crims Is	10-40	PV	/
Colu	08N 04W 19 SW	1255 Eagle Cliff Is	10-40	DSL?	*03
Colu	08N 04W 30 SW	1256 Poysky Is	10-40	PV?	*04
Jeff	11S 11E 30 NE	1257 Street Cr Mouth	11-2b	FS	-
Lane	17S 05W 10 NE	1258 Orchard Point	12-2g	COE	*05
Yamh	02S 03W 31 NW	1259 Chehalem Cr	12-2g	PV	*06
Mult	01N 01E 06 NW	1260 Smith L	10-60	CI*	-
Mult	03N 01W 34 N1/2	1261 Coon Point	10-50	DFW	*07
Coos	28S 13W 26 NE	1262 Fishtrap Cr Antuch	13-2	PV	*08
Polk	07S 05W 36 NW	1263 Rickreall Cr	12-2g	PV	-
Klam	39S 12E 31 SW	1264 West Langell Valley	22-2e	PV	*09
Wall	01N 42E 04 SE	1265 Lower Valley	09-1	PV	-
Doug	25S 07W 15 SE	1266 Bottle Cr	13-3a	BLM	*10
Bent	10S 03W 32 SE	1267 Second Lake	12-1	CI?	-
Doug	22S 09W 17 NW	1268 Greenacres	13-3a	BLM	*11
Till	03N 10W 34 E1/2	1269 Dean Point	13-1	PV	*12
Linc	07S 11W 35 NW	1270 Browns Hill	13-1	FWS	-
Doug	20S 12W 32 NW	1271 Tahkenitch Cr Mouth	13-2	FS	-
Mari	05S 03W 01 SW	1272 Jackson Bend	12-1	PV	-
Colu	05N 01W 16 SW	1273 Old Fairgrounds	10-40	PV	-
Colu	03N 01W 14 NW	1274 Lost Prairie	10-50	DFW	*13
Doug	23S 10W 01 W1/2	1275 Sock Cr	13-3a	BLM	-
Klam	38S 13E 01 NW	1276 Lightning	22-2d	BLM	-
Hood	02N 08E 11 NE	1277 Gorton Cr	10-7o	FS	*14
Clat	08N 08W 13 NE	1278 Calendar Slough	10-20	PV	-
Clat	09N 06W 20 NW	1279 Welch Is	10-30	FWS	-
Colu	08N 04W 20 SW	1280 Poysky Slough	10-40	PV?	*15
Klam	38S 08E 19 NE	1281 Long L N	22-1a	PV	-
Klam	36S 07E E 15 SE	1282 Modoc Point	22-1a	FS	-
Colu	08N 04W 23 SW	1283 Locoda	10-40	PV	*16
Desc	14S 10E 34 SE	1284 Camp Polk	11-2a	FS	*17
Till	06S 11W 10 SE	1285 Cascade Head	13-1	FS	-

Table 1. Bald eagle nest trees added in Oregon (68; 23 at 23 new breeding areas) and the Washington portion of the Columbia River Recovery Zone (19; 5 at 5 new breeding areas). Compiled by Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish And Wildlife Research Unit, Oregon State University, Corvallis.

Wall	03N 40E 12 NW	1286 Grande Ronde RM 78	09-1	FS	-
Klam	23S 08E 06 SW	1287 Lava Flow	11-1c	FS	-
Klam	34S 09E 19 SE	1288 Sprague R	22-2c	PV	-
Desc	22S 09E 07 SE	1289 Wickiup Butte	11-1d	FS	*18
Klam	23S 06E 26 SW	1290 Resort Ridge	11-1a	FS	-
Doug	23S 07W 27 SE	1291 Martin Cr	13-3a	BLM	-
Klam	33S 07.5E 10 SW	1292 Wood R	22-1a	PV	-
Klam	37S 07E 01 NE	1293 Eagle Hill S	22-1b	PV	-
Klam	37S 08E 07 NE	1294 Plantation N	22-1b	PV	-
Klam	37S 08E 07 SE	1295 Plantation S	22-1b	PV	-
Klam	29S 09E 23 SE	1296 Lane Well Lodgepole	22-2b	FWS	*19
Doug	22S 09W 23 NW	1297 Weatherly Cr	13-3a	BLM	-
Clat	05N 10W 06 NW	1298 Tillamook Head	13-1	OPR	-
Colu	05N 04W 34 NE	1299 Vernonia	13-1	PV	*20
Till	01N 07W 09 NW	1300 Kissing Tree	13-1	DOT?	*21
Doug	27S 06E 30 SE	1301 Diamond L N	13-3c	FS	-
Jack	38S 3E 23 SE	1302 Howard Pr Res N	23-1b	BLM	/
Klam	24S 06E 21 NW	1303 Tranquil Cove	11-1b	FS	-
Till	01S 11W 13 NE	1304 Cape Meares	13-1	OPR	-
Klam	37S 10E 09 SE	1305 Grizzly Butte Swan L	22-2e	BLM	-
Doug	21S 12W 25 N1/2	1306 East Gardiner	13-3b	FS	-
Coos	24S 11W 04 NW	1307 Palouse Cr	13-2	PV	-
Klam	30S 09E 16 NE	1308 Rocky Peninsula	22-2b	PV	*22
Croo	16S 18E 23 NW	1309 Lucky Wickiup	11-3	PV	-
Klam	23S 06E 09 SE	1310 Rosary Cr	11-1a	FS	-
Croo	12S 16E 04 SW	1311 Awbrey Mt	11-3	PV	-
Desc	20S 10E 35 SW	1312 Foster Road Deschutes	11-1g	FS	*23
Hood	03N 10E 27 W1/2	1313 Wah Gwin Gwin	10-7o	PV	-
Mult	03N 01W 26 NE	1314 Dairy Cr Sauvie Is	10-50	PV	-
Klam	30S 09E 10 SW	1315 Windmill Point	22-2b	FWS	-

WASHINGTON portion of Recovery Zone 10 (Columbia River)

Paci	09N 11W 04 NW	0144-7	Cape Disappointment WA	10-1w	WSP	-
Paci	09N 10W 17 NW	0569-5	Chinook WA	10-1w	PV	-
Paci	09N 10W 17 NW	0569-6	Chinook WA	10-1w	PV	-
Wahk	09N 08W 09 SW	1313-3	Pigeon Bluff WA	10-2w	PV	-
Wahk	10N 07W 18 SE	0468-3	Grays R Covered Bridge W	10-2w	PV	-
Wahk	09N 07W 14 NW	0248-6	Three Tree Bay WA	10-2w	PV	/
Wahk	09N 06W 34 SE	1060-3	Hunting Is WA	10-3w	FWS	-
Wahk	08N 05W 19 SE	0995-6	Whites Is WA	10-3w	WDW	/
Wahk	08N 05W 30 E1/2	0995-5	Net Rack Slough WA	10-3w	WDW	/
Wahk	08N 05W 30 NE	0995-7	Cut-Off Slough WA	10-3w	WDW	/

Table 1. Bald eagle nest trees added in Oregon (68; 23 at 23 new breeding areas) and the Washington portion of the Columbia River Recovery Zone (19; 5 at 5 new breeding areas). Compiled by Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish And Wildlife Research Unit, Oregon State University, Corvallis.

Clar	04N 01W 12 NE	1702-1	Lancaster Lake WA	10-5w	PV	*01
Clar	04N 01W 13 NW	1409-3	Carty Ridge WA	10-5w	PV	-
Clar	03N 01E 29 NW	1536-2	Felida WA	10-5w	PV	-
Clar	03N 01E 27 SW	1666-1	Salmon Cr WA	10-5w	CO	*02
Clar	01N 03E 01 SW	1534-2	Lacamas WA	10-6w	WSP	-
Clar	01N 04E 23 SW	1659-1	Reed Is WA	10-6w	WSP	*03
Skam	02N 07E 30 NW	1647-1	lves Is WA	10-6w	FS	*04
Skam	02N 07E 09 SW	1631-1	Greenleaf Cr WA	10-6w	PV	-
Klic	03N 12E 35 NW	1665-1	Fisher Hill WA	10-7w	FS	*05

- = Nest tree at previously known breeding area.

* = Nest tree at a breeding area discovered this year.

(*) = Additional nest tree at a breeding area discovered this year.

/ = New nest tree at an existing breeding area that has split into two breeding areas.

Splits that did not include a new nest tree are not shown on this list.

	Breeding	Bree	ding eas	Occupiec	Broodin	a Areas		Young /	Young /
	Areas		pied ^a	With Known			_	Occupied	Successful
Year	Surveyed	N	%	Outcome	N	%	Young	Breeding Area ^c	Breeding Pair
1971	25	20	80.0	15	14	93.3	19	1.27	1.36
1972	27	18	66.7	15	13	86.7	17	1.13	1.31
1973	37	31	83.8	21	19	90.5	25	1.19	1.32
1974	43	31	72.1	24	18	75.0	25	1.04	1.39
1975	32	19	59.4	13	9	69.2	10	0.77	1.11
1976	44	36	81.8	19	15	78.9	25	1.32	1.67
1977	45	30	66.7	19	15	78.9	22	1.16	1.47
1978	64	56	87.5	49	38	77.6	59	1.20	1.55
1979	96	82	85.4	77	48	62.3	72	0.94	1.50
1980	105	91	86.7	82	45	54.9	67	0.82	1.49
1981	114	107	93.9	99	61	61.6	96	0.97	1.57
1982	121	111	91.7	106	51	48.1	72	0.68	1.41
1983	124	115	92.7	106	62	58.5	92	0.87	1.48
1984	130	120	92.3	110	72	65.5	107	0.97	1.49
1985	143	136	95.1	132	78	59.1	117	0.89	1.50
1986	152	142	93.4	136	87	64.0	134	0.99	1.54
1987	161	150	93.2	142	81	57.0	118	0.83	1.46
1988	172	164	95.3	160	93	58.1	141	0.88	1.52
1989	185	169	91.4	164	83	50.6	129	0.79	1.55
1990	189	176	93.1	167	103	61.7	147	0.88	1.43
1991	207	187	90.3	180	120	66.7	190	1.06	1.58
1992	224	206	92.0	199	121	60.8	198	0.99	1.64
1993	236	221	93.6	212	118	55.7	174	0.82	1.47
1994	251	232	92.4	218	123	56.4	214	0.98	1.74
1995	260	244	93.8	228	141	61.8	224	0.98	1.59
1996	280	267	95.4	255	155	60.8	233	0.91	1.50
1997	301	281	93.4	276	166	60.1	259	0.94	1.56
1998	333	321	96.4	310	188	60.6	297	0.96	1.58
1999	357	343	96.1	329	199	60.5	319	0.97	1.60
2000	384	372	96.9	357	228	63.9	373	1.04	1.64
2001	408	393	96.3	377	248	65.8	386	1.02	1.56
2002	426	401	94.1	385	255	66.2	408	1.06	1.60
2003	446	418	93.7	406	260	64.0	430	1.06	1.65
2004	460	442	96.1	409	266	65.0	424	1.04	1.59
2005	479	456	95.2	432	285	66.0	437	1.01	1.53
Total	7061	6588	93.3	6229	3878	62.3	6060	0.97	1.56

Table 2. Productivity data for bald eagles nesting in Oregon.

Compiled by: Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish And Wildlife Research Unit, Oregon State University, Corvallis.

^a Occupied Breeding Area - breeding area where one or two adults and a nest were observed.

^b Successful Breeding Area - breeding area where one or more nestlings or fledglings were observed.

^c Calculated using the number of breeding areas where the outcome of nesting was known.

		Breedir Areas				Ar Occu	eding reas ipied ^a			Bree Wi	Occupie eding A th Kno	areas wn			Occu Breedin Succe	g Areas						C	Young /	b	Su	Young / Iccessf	ful
Veer		Surveye WA		OR N	%	<u>WA</u>	%	<u>Total</u> N	%	OR	Outcom WA	ne Total	OR N	%	WA N	%	<u>Total</u> N	%	OR	<u>Young</u> WA		Bree OR	eding Ai WA		-	eding I	
Year	OR	WA	TOLAI	IN	%	IN	%	IN	%	UR	WA	TOLAI	IN	%	IN	%	IN	%	UR	WA	Total	UR	WA	Total	OR	WA	Total
1973	1	0	1	1	100.0	0	-	1	100.0	1	0	1	1	100.0	0	-	1	100.0	1	0	1	1.00	-	1.00	1.00	-	1.00
1974	4	0	4	2	50.0	0	-	2	50.0	2	0	2	2	100.0	0	-	2	100.0	2	0	2	1.00	-	1.00	1.00	-	1.00
1975	0	2	2	0	-	2	100.0	2	100.0	0	2	2	0	-	1	50.0	1	50.0	0	2	2	-	1.00	1.00	-	2.00	2.00
1976	4	0	4	3	75.0	0	-	3	75.0	0	0	0	0	-	0	-	0	-	0	0	0	-	-	-	-	-	-
1977	6	1	7	4	66.7	1	100.0	5	71.4	3	0 1	3	3	100.0	0	-	3	100.0	4	0	4	1.33	-	1.33	1.33	-	1.33
1978 1979	5 7	2 2	9	4 5	80.0 71.4	1 2	50.0 100.0	5 7	71.4 77.8	2 5	1	3 6	2 2	100.0 40.0	1 0	100.0 0.0	3 2	100.0 33.3	3 3	1 0	4 3	1.50 0.60	1.00 0.00	1.33 0.50	1.50 1.50	1.00	1.33
1979	6	2	9 7	6	100.0	1	100.0	7	100.0	5	1	6	0	40.0	0	0.0	0	0.0	0	0	0	0.00	0.00	0.30	1.50	-	1.50
1980	8	2	10	8	100.0	2	100.0	10	100.0	7	2	9	3	42.9	1	50.0	4	44.4	4	1	5	0.00	0.50	0.56	- 1.33	-	- 1.25
1982	9	2	11	9	100.0	1	50.0	10	90.9	7	1	8	3	42.9	0	0.0	3	37.5	4	0	4	0.57	0.00	0.50	1.33	-	1.33
1983	8	6	14	8	100.0	5	83.3	13	92.9	7	4	11	4	57.1	1	25.0	5	45.5	6	1	7	0.86	0.25	0.64	1.50	1.00	1.40
1984	9	10	19	8	88.9	9	90.0	17	89.5	7	9	16	5	71.4	2	22.2	7	43.8	8	3	11	1.14	0.33	0.69	1.60	1.50	
1985	11	11	22	11	100.0	10	90.9	21	95.5	11	10	21	6	54.5	1	10.0	7	33.3	8	2	10	0.73	0.20	0.48		2.00	
1986	11	12	23	11	100.0	12	100.0	23	100.0	10	7	17	6	60.0	6	85.7	12	70.6	9	7	16	0.90	1.00	0.94	1.50	1.17	
1987	12	12	24	12	100.0	12	100.0	24	100.0	11	12	23	2	18.2	4	33.3	6	26.1	3	6	9	0.27	0.50	0.39	1.50	1.50	1.50
1988	12	13	25	12	100.0	11	84.6	23	92.0	12	11	23	3	25.0	4	36.4	7	30.4	3	7	10	0.25	0.64	0.43	1.00	1.75	1.43
1989	12	12	24	12	100.0	9	75.0	21	87.5	12	8	20	4	33.3	3	37.5	7	35.0	4	5	9	0.33	0.63	0.45	1.00	1.67	1.29
1990	11	14	25	11	100.0	12	85.7	23	92.0	11	11	22	5	45.5	6	54.5	11	50.0	6	7	13	0.55	0.64	0.59	1.20	1.17	1.18
1991	15	17	32	15	100.0	15	88.2	30	93.8	15	15	30	11	73.3	3	20.0	14	46.7	15	3	18	1.00	0.20	0.60	1.36	1.00	1.29
1992	19	20	39	19	100.0	18	90.0	37	94.9	19	18	37	11	57.9	10	55.6	21	56.8	15	15	30	0.79	0.83	0.81	1.36	1.50	1.43
1993	21	20	41	21	100.0	19	95.0	40	97.6	21	15	36	11	52.4	10	66.7	21	58.3	16	16	32	0.76	1.07	0.89	1.45	1.60	1.52
1994	22	22	44	22	100.0	21	95.5	43	97.7	17	16	33	6	35.3	11	68.8	17	51.5	15	17	32	0.88	1.06	0.97		1.55	
1995	24	24	48	22	91.7	23	95.8	45	93.8	15	20	35	7	46.7	8	40.0	15	42.9	10	12	22	0.67	0.60	0.63	1.43	1.50	1.47
1996	26	26	52	26	100.0	25	96.2	51	98.1	25	23	48	13	52.0	15	65.2	28	58.3	18	21	39	0.72	0.91	0.81	1.38	1.40	1.39
1997	31	29	60	29	93.5	27	93.1	56	93.3	28	27	55	9	32.1	13	48.1	22	40.0	15	18	33	0.54	0.67	0.60		1.38	
1998	39	32	71 75	38	97.4 97.5	31 34	96.9	69 73	97.2	37	31	68 71	20	54.1 52.6	18 21	58.1	38	55.9	30 32	29	59 63	0.81	0.94	0.87	1.50	1.61	1.55
1999	40	35		39			97.1 97.4		97.3 07 5	38	33	77	20			63.6	41	57.7 51.9		31	63 69	0.84	0.94	0.89 0.90	1.60	1.48	1.54
2000 2001	43 50	38 40	81 90	42 48	97.7 96.0	37 39	97.4 97.5	79 87	97.5 96.7	40 48	37 38	86	22 28	55.0 58.3	18 25	48.6 65.8	40 53	61.6	37 46	32 34	80	0.93 0.96	0.86 0.89	0.90	1.68 1.64	1.78 1.36	1.73 1.51
2001	53	43	90 96	49	92.5	41	97.3	90	93.8	48	39	87	28	58.3	25	64.1	53	60.9	45	44	89	0.90	1.13	1.02	1.61	1.76	1.68
2002	61	43 47	108	49 56	92.3 91.8	43	93.3 91.5	99	91.7	55	41	96	35	58.5 63.6	22	53.7	57	59.4		38	96	1.05	0.93	1.02	1.66	1.73	1.68
2003	67	54	121	62	92.5	48	88.9	110	90.9	58	41	99	33 34	58.6	25	61.0	59	59.4 59.6	56	39	95	0.97	0.95	0.96		1.56	1.61
2005	78	62	140	73	93.6	57	91.9	130	92.9	71	52	123	46	64.8	34	65.4	80	65.0	76	54	130	1.07	1.04	1.06		1.59	1.63
Total	725	611	1336	688	94.9	568	93.0	1256	94.0	648	526	1174	352	54.3	288	54.8	640	54.5	552	445	997	0.85	0.85	0.85	1.57	1.55	1.56

Table 3. Productivity data for bald eagles nesting in the Columbia River Recovery Zone of Oregon and Washington (Recovery Zone 10). Compiled by: Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish And Wildlife Research Unit, Oregon State University, Corvallis.

^a Occupied Breeding Area - breeding area where one or two adults and a nest were observed.

^b Successful Breeding Area - breeding area where one or more nestlings or fledglings were observed.

^c Calculated using the number of breeding areas where the outcome of nesting was known.

Table 4. Distribution of bald eagle nests among landowners and land managers in Oregon based on nest tree or manmade structure locations.

Compiled by Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish And Wildlife Research Unit, Oregon State University, Corvallis.

	Nest Tr	ees ^{a,b}
Landowner / Manager	N	%
PV = Private	405	25.4
	465 440	35.4
FS = U.S.D.A. Forest Service		33.5
BLM = Bureau of Land Management	155	11.8
OPR = Oregon Parks and Recreation Department	50	3.8
FWS = U.S. Fish and Wildlife Service	48	3.7
ODF = Oregon Department of Forestry	31	2.4
CO = Counties	24	1.8
CI = Cities	24	1.8
DFW = Oregon Department of Fish and Wildlife	23	1.7
COE = U.S. Army Corps of Engineers	13	1.0
WST = Warm Springs Tribe	8	0.6
TNC = The Nature Conservancy	7	0.5
CG = U.S. Coast Guard	4	0.3
CO ^c = CO / Oregon Eagle Foundation	4	0.3
DSL = Division of State Lands	5	0.4
CI* = Shared Ownership, Managed by Metro	3	0.2
$COE^{d} = COE / FS$	2	0.2
DOT = Oregon Department of Transportation	3	0.2
PGE = Portland General Electric	2	0.2
NPS = National Park Service	1	0.1
PP = Pacific Power	1	0.1
SLI = Silver Lake Irrigation District	1	0.1
CLT = Columbia Land Trust	1	0.1
Total	1315	100.0

^a Includes all documented nest trees; some no longer exist and some no longer hold nests.

^b Includes 2 nests on manmade structures.

^c Four nest trees on County land managed by Oregon Eagle Foundation, Inc.

^d Two nest trees on U.S. Army Corps of Engineers land managed by U.S.D.A. Forest Service.

Table 5. Breeding area data by recovery zone for the past five years for bald eagles in Oregon and the Washington portion of the Columbia River Recovery Zone. Compiled by Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish And Wildlife Research Unit, Oregon State University, Corvallis.

		Breedir	ng Areas	Occupied Breeding Areas With Known		Occu Breedin Succe	g Areas		Young/O Breeding		Young/ Successful Breeding
Recovery Zone	Year	Surveyed	Occupied ^a		Ν	%	5-Yr. %	Young	Annual	5-Yr.	Pair
9	2001	12	11	11	5	45.5	63.4	7	0.64	0.98	1.40
Blue Mountains	2002	12	8	8	3	37.5	59.5	5	0.63	0.93	1.67
Bide Fiedricanie	2003	11	8	8	7	87.5	62.8	13	1.63	1.02	1.86
	2004	14	12	10	8	80.0	62.2	14	1.40	1.07	1.75
	2005	12	11	10	7	70.0	63.8	10	1.00	1.04	1.43
10	2001	50	48	48	28	58.3	51.8	46	0.96	0.84	1.64
Columbia River	2002	53	49	48	28	58.3	55.9	45	0.94	0.90	1.61
(Oregon)	2003	61	56	55	35	63.6	58.1	58	1.05	0.95	1.66
(2004	67	62	58	34	58.6	59.0	56	0.97	0.97	1.65
	2005	78	73	71	46	64.8	61.1	76	1.07	1.00	1.65
10	2001	40	39	38	25	65.8	57.2	34	0.89	0.87	1.36
Columbia River	2002	43	41	39	25	64.1	60.1	44	1.13	0.96	1.76
(Washington)	2003	47	43	41	22	53.7	59.0	38	0.93	0.95	1.73
	2004	54	48	41	25	61.0	58.7	39	0.95	0.95	1.56
	2005	62	57	52	34	65.4	62.1	54	1.04	0.99	1.59
10	2001	90	87	86	53	61.6	54.3	80	0.93	0.85	1.51
Columbia River	2002	96	90	87	53	60.9	57.8	89	1.02	0.93	1.68
(OR + WA)	2003	108	99	96	57	59.4	58.5	96	1.00	0.95	1.68
()	2004	121	110	99	59	59.6	58.9	95	0.96	0.96	1.61
	2005	140	130	123	80	65.0	61.5	130	1.06	1.00	1.63
11	2001	60	58	57	38	66.7	62.5	62	1.09	0.95	1.63
High Cascades	2002	62	60	56	41	73.2	64.8	62	1.11	1.00	1.51
	2003	65	61	61	37	60.7	65.4	58	0.95	1.02	1.57
	2004	65	63	60	40	66.7	64.1	59	0.98	0.99	1.48
	2005	69	64	63	39	61.9	65.7	59	0.94	1.01	1.51
12	2001	54	53	49	30	61.2	65.0	49	1.00	1.09	1.63
Willamette Basin	2002	60	57	53	36	67.9	64.4	68	1.28	1.11	1.89
	2003	63	59	53	36	67.9	65.0	59	1.11	1.10	1.64
	2004	64	64	50	38	76.0	67.3	64	1.28	1.14	1.68
	2005	63	61	55	39	70.9	68.8	63	1.15	1.17	1.62
13	2001	82	78	75	56	74.7	66.9	84	1.12	1.02	1.50
Oregon Coast	2002	82	81	78	55	70.5	69.1	86	1.10	1.07	1.56
	2003	84	80	79	57	72.2	70.4	95	1.20	1.13	1.67
	2004	87	85	81	49	60.5	69.6	79	0.98	1.12	1.61
	2005	93	91	90	65	72.2	70.0	100	1.11	1.10	1.54
14	2001	1	1	1	1	100.0	-	2	2.00	-	2.00
Snake R. Canyon	2002	1	1	1	1	100.0	-	1	1.00	-	1.00
	2003	2	2	2	2	100.0	100.0	4	2.00	1.67	2.00
	2004	3	3	2	2	100.0	100.0	6	3.00	2.14	3.00
	2005	3	3	2	2	100.0	100.0	3	1.50	2.00	1.50
21	2001	2	2	2	1	50.0	62.5	1	0.50	0.88	1.00
Harney Basin/	2002	2	2	2		50.0	55.6	1			

Table 5. Breeding area data by recovery zone for the past five years for bald eagles in Oregon and the Washington portion of the Columbia River Recovery Zone. Compiled by Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish And Wildlife Research Unit, Oregon State University, Corvallis.

		Breedir	ng Areas	Occupied Breeding Areas With Known		Breedin	upied Ig Areas Issful ^b		Young/O Breeding	•	Young/ Successful Breeding
Recovery Zone	Year	Surveyed	Occupied ^a	Outcome	N	%	% 5-Yr. %		Annual	5-Yr.	Pair
Warner Mountains	2003	2	2	2	1	50.0	50.0	2	1.00	0.80	2.00
	2004	2	2	2	2	100.0	60.0	3	1.50	0.90	1.50
	2005	2	2	2	1	50.0	60.0	2	1.00	0.90	2.00
22	2001	124	120	114	75	65.8	63.8	115	1.01	1.04	1.53
Klamath Basin	2002	131	122	119	76	63.9	63.6	117	0.98	1.02	1.54
	2003	134	128	125	70	56.0	62.0	118	0.94	0.99	1.69
	2004	134	128	123	80	65.0	63.7	121	0.98	1.00	1.51
	2005	134	129	119	72	60.5	62.2	103	0.87	0.96	1.43
23	2001	23	22	20	14	70.0	52.8	20	1.00	0.82	1.43
California/	2002	23	21	20	14	70.0	56.4	23	1.15	0.89	1.64
Oregon Coast	2003	24	22	21	15	71.4	62.6	23	1.10	0.99	1.53
	2004	24	23	23	13	56.5	66.0	22	0.96	1.05	1.69
	2005	25	22	20	14	70.0	67.3	21	1.05	1.05	1.50
37 - Great Basin ^d	2005	0	-	-	-	-	-	-	-	-	-
Oregon Total	2001	408	393	377	248	65.8	62.4	386	1.02	0.99	1.56
	2002	426	401	385	255	66.2	63.6	408	1.06	1.01	1.60
	2003	446	418	406	260	64.0	64.2	430	1.06	1.03	1.65
	2004	460	442	409	266	65.0	65.0	424	1.04	1.04	1.59
	2005	479	456	432	285	66.0	65.4	437	1.01	1.04	1.53

^a Occupied Breeding Area - breeding area where one or two adults and a nest were observed.

^b Successful Breeding Area - breeding area where one or more nestlings or fledglings were observed.

^c Calculated using the number of occupied breeding areas where the outcome of the nesting attempt was known.

^d Includes the Oregon portion of Recovery Zone 16.

Table 6. Highlights of the 2005 survey of bald eagle breeding areas in Oregon and the Washington portion of the Columbia River Recovery Zone. Compiled by Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish And Wildlife Research Unit, Oregon State University, Corvallis.

* 2005 was the 28th year of our survey of bald eagle breeding areas (1978-2005) and the 35th year for which we have tabulated data (1971-2005) on nesting bald eagles in Oregon (OR) and the Washington portion of the Columbia River Recovery Zone (WA).

* 2,385 observations were used to summarize the 2005 survey. 307 people, including volunteers and representatives of 39 organizations, contributed to the survey. We thank all of them! Without their efforts the survey would have been much less complete.

* History of bald eagle use has been compiled for 1,472 nest trees and 2 manmade structures (1,315 in OR, 159 in WA) at 575 breeding areas (513 in OR, 62 in WA). Bald eagle nests have been discovered in 33 of 36 (92%) counties in OR, and 6 of 7 (86%) counties in the WA portion of the Columbia River Recovery Zone. Counties in OR with no reported nests are Sherman, Gilliam, and Morrow. There are no nests known in the Benton Co., WA portion of the study area.

* 87 previously unknown nests were documented in 2005 (68 in OR, 19 in WA); 28 were at 28 previously unknown breeding areas (23 at 23 in OR, 5 at 5 in WA), and 59 (45 in OR, 14 in WA) were at previously known breeding areas.

* 513 of 541 (456 of 479 in OR, 57 of 62 in WA) breeding areas surveyed (95%) were occupied (OC) by bald eagles. 491 nestlings (437 in OR, 54 in WA) were observed at 484 OC breeding areas (432 in OR, 52 in WA) where nesting outcome was determined. 6,060 eaglets have been counted at nests in OR since 1971.

* Nesting success was 66% in OR and 65% in WA, resulting in 5-year nesting success of 65% in OR and 62% in WA. Young/successful breeding pair was 1.53 in OR and 1.59 in WA. Three nestlings were observed at 8 breeding areas in OR and 5 in WA during 2004.

12/6/04

* Productivity was 1.01 young per occupied (YG/OC) breeding area in OR and 1.04 in WA, resulting in 5-year productivity of 1.04 YG/OC breeding area for OR and 0.99 for WA. This was the 4th consecutive year that the 5-year productivity for OR was greater than the Recovery Goal of 1.00.

* Nesting success for Recovery Zones with at least 5 OC breeding areas was highest in Recovery Zone 12 (Willamette Basin) with 1.15 YG/OC breeding area, and lowest in RZ 22 (Klamath Basin) with 0.87. Productivity was \geq 1.00 YG/OC breeding area for all but RZs 11 (High Cascades; 0.94) and 22 (Klamath Basin; 0.87). The Klamath Basin productivity was the lowest since 0.73 was recorded in 1993. Both 1993 and 2005 had unusually wet latewinter and spring weather. Changes in survey technique instituted in 2004 also may have contributed to the 2005 Klamath Basin result.

* Net increase in the OR population was 3.2% for 2005. Annual net increase averaged 6.9% from 1995-2004. The annual increase for 2003 and 2004 was 4.2% and 5.7%, respectively. We suspect that the variation in the annual increase is the result of survey technique, and that more effort would result in a higher increase because many areas have not been searched thoroughly.

* The bald eagle nesting population in the Columbia River RZ (10) increased by 18.2%. This was the largest annual increase recorded for that area, and it resulted in the nesting population in RZ 10 surpassing the Klamath Basin (RZ 22) nesting population by 1 nesting pair (130 occupied breeding areas in RZ 10 vs. 129 in RZ 22).

* During an aerial survey on 15 June 2005, 2 peregrine falcon eggs were observed on a bald eagle nest in a dominant live conifer on the WA side of the Columbia River. This was the first time we have observed peregrine falcon eggs on a bald eagle nest. The eggs were out of the scrape and no adults were present at the time of the survey, indicating that the nesting attempt had failed.

* On 16 February 2006, U.S. Fish and Wildlife Service re-opened the 90-day comment period on three proposals related to removing the bald eagle from the federal threatened species list. Visit

<http://www.fws.gov/migratorybirds/baldeagle.htm> the see the proposals and learn where to send comments.

12/6/04



Figure 1. Minimum number of bald eagle breeding areas in Oregon. Compiled by Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish and Wildlife Research Unit, Oregon State University, Corvallis.

Bald Eagle Nestlings/Occupied Breeding Area Bald Eagle Nestlings/Successful Breeding Pair 1.8 1.6 1.4 1.2 1.0 0.8 0.6 0.4 0.2 0 1985 1985 1985 1987 1987 1989 1992 1992 1995 1995 1996 1997 1998 1998 1998 1998 2001 2002 978 979 980 981 982 983 2003 2004 2005

Figure 2. Average productivity of nesting pairs of bald eagles in Oregon. Compiled by Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish and Wildlife Research Unit, Oregon State University, Corvallis.



Figure 3. Minimum number of bald eagle breeding areas in the Columbia River Recovery Zone. Compiled by Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish and Wildlife Research Unit, Oregon State University, Corvallis.



Figure 4. Average productivity of nesting pairs of bald eagles in the Columbia River Recovery Zone. Compiled by Frank B. Isaacs and Robert G. Anthony, Oregon Cooperative Fish and Wildlife Research Unit, Oregon State University, Corvallis.



Appendix 1.

People contributing to the bald eagle nest survey for Oregon and Recovery Zone 10 in Washington. We apologize to those we missed.

	N ASSOCIATES	Robin	Snider	Patrick	Mansfield
Sarah	Hartung	Darci	Spangler	Floyd	Schrock
Garan	handing	Robin	Taylor	Cliff	Weber
	I SOCIETY OF PORTLAND	Madeleine	Vander Heyden	Joanne	Weber
Bob	Sallinger	Holly	Witt		
DOD	Sallinger	Kip	Wright	OREGON	COOPERATIVE FISH &
			C		RESEARCH UNIT
Mike	OF LAND MANAGEMENT Allen	CITY OF C	ORVALLIS	Bob	Anthony
George	Arnold	Bob	Worthean	Frank	Isaacs
Vicki	Arthur			Trank	130003
Mike	Bechdolt	CONSULTA	ANT		DEPT OF FORESTRY
Cindy	Bright	Mary	Lumsden	Ed	DeBlander
Bonnie	Brown	in any		Lin	Farm
Matt	Broyles		ANS ASSOCIATES	Christal	Florin
Patricia	Burns	Kristine	Marshall	Jim	Hall
Todd	Calvert			Malcolm	Hiatt
Madeline	Campbell	ENVIRON	MENTAL SERVICES NW	Anne	Maloney
Alison	Center	Ron	Gaines	Clint	Smith
John	Chatt			Randy	Smith
Dan	Crannell	HILL SBOR	O AVIATION	Dave	Taylor
Steve	Dowlan	Bruce	Malone	Mike	Townsend
Jim	England	Brace	maiorio	David	Wells
Todd	Forbes		WER COMPANY		
Ken	Fukuda	Leslie	Carpenter	OREGON	DEPARTMENT OF FISH &
Elizabeth	,	Natalie	Turley	WILDLIF	E
Tim Linda	Gonzales Hale	Natalio	lanoy	Marnie	Allbritten
Jan	Hanf	JONES &	STOKES	Susan	Barnes
Jim	Harper	Paul	Whitney	Herman	Biederbeck
Steve	Hayner		5	Charlie	Bruce
Jim	Heaney	KLAMATH	I TRIBES	Jim	Cadwell
Kristen	Hiatt	Rick	Ward	Chris	Carey
Barbara	Hill			Tom	Collom
Kevin	Hoskins	MEDFORD	WATER COMMISSION	Leonard	Erickson Form
Mark	Irwin	Frances	Oyung	Brian Mike	Ferry Hansen
Tony	Kerwin	Trances	oyang	Corey	Heath
Katrina	Krause	METRO		Will	High
Paula	Larson	Elaine	Stewart	Keith	Kohl
Jim	Le Comte	Liame	Stewart	Matthew	Lawhead
Gary	Licata	ΝΑΤΙΟΝΑΙ	PARK SERVICE	Rick	Madigan
Gricelda	Meraz			Phillip	Milburn
Sean	Mohren	Michael	Murray	David	Nuzum
Andy	Pampush			Ray	Perkins
Erich	Reeder		BIRDERS ONLINE	Kasey	Scrivens
Jason Dobort	Reilly	Range Ellen	Bayer Cantor	Devin	Simmons
Robert Mandou	Roninger Schnoes	Greg	Hamman	Scott	Torlan
Marylou	Sitter	Steve	Jaggers	Walt	VanDyke
Gayle	OILLEI	0.000	0499010	Simon	Wray

Wray

Appendix 1.

People contributing to the bald eagle nest survey for Oregon and Recovery Zone 10 in Washington. We apologize to those we missed.

				Sparky	Lisle
OREGON	DEPARTMENT OF	URS CORF	PORATION	Jim	Lowrie
TRANSPO	RTATION	Bridget	Canty	Kirk	Lunstrum
Nicholas	Testa			Sarah	Madsen
		US ARMY	CORPS OF ENGINEERS	John	Marconi
OREGON	PARKS & RECREATION	Kat	Beal	Amy	Markus
DEPARTN		Geoff	Dorsey	Christine	Maynard
John	Cowan	Danial	Farrar	Michael	Miller
Wes	Jones			Paul	Miller
Mary Ann		US FORES	ST SERVICE	Matt	Mulanax
incluy / unit	200011	Norm	Barrett	Bryan	Mulligan
	EAGLE FOUNDATION	Christian	Benedict	Bill	Munro
Charlotte		Gary	Bolin	Jim Kulo	Niles
Ralph	Орр	Shelley	Borchert	Kyle Danielle	Park
парп	Ορρ	Karin	Boucher	Chuck	Peyton Pierce
	OREST CONSULTANTS	Wayne	Branum	Brandi	Powers
	UREST CONSULTAINTS	Terry	Bryan	Deborah	Quintana
INC.	Mandau	Jordan	Bybee	Mike	Ramsey
Tim	Manley	Dave	Clayton	Howard	Richburg
		Dick	Davis	John	Robella
		Doug	Degross	Trisha	Roninger
Andrew	Bidwell	Marty	Dillavou	Chris	Runnels
Steve	Bullock	Rick	Elliot	Jennifer	Sanborn
Greg	Concannon	Marilyn	Elston	Tim	Schommer
Robert	Marheine	Michael	Feiger	Travis	Schultz
Cory	Quesada	R	Ferrell	Ruby	Seitz
Walt	Wolf	David	Fields	Terri	Simpson
		Cathy	Flick	Melonie	Smeltz
RAVEN R		Brent	Frazier	Dede	Steele
Gary	Clowers	Mike	Gebben	Roy	Sutcliffe
Chuck	Harden	Amy Maggio	Gibson	Rich	Thurman
DOCKING		Maggie	Gould	Lilliann	Watah
	C RANCH	Monty Dwayne	Gregg Guthrie	Barbara	Webb
Carol	Whipple	Justin	Hadwen	John	Whiteclay
		Penny	Harris	Patty	Wolcott
	G RESOURCES	Tom	Hawkins	James	Young
Carey	Weatherly	Kris	Hennings		
		Jeff	Henshaw		& WILDLIFE SERVICE
SDS LUM	BER CO.	Mike	Hiatt	John	Beckstrand
Jon	Cole	Shane	Kamrath	Scott	Center
		Anton	Keono	Harold	Cole
TIMBER F	RESOURCE SERVICES	Tami	Kerr	Walt	Ford
Chris	Sokol	Joan	Kittrel	Rick Elizabeth	Hardy Huggins
		Barbara	Kraft	Doug	Laye
THE NATI	JRE CONSERVANCY	Cynthia	Kranich	Kevin	Maurice
Craig	Bienz	Mark	Lehner	Dave	Pitkin
Carla	Stevens	Bob	Lightley	Peter	Schmidt

Appendix 1.

People contributing to the bald eagle nest survey for Oregon and Recovery Zone 10 in Washington. We apologize to those we missed.

Greg	Smith	Merry Ann		Robin	Woodin
Dani	Thomson	Rhidian	Morgan		
Karen	Viste-Sparkman	Dick	Murley		EUSER CO.
Dave	Butcher	Jerry	Niehuser	Matt	Hane
		Jane	Olson	Stuart	Stein
	GICAL SURVEY	Sharon	Olson		
Carol	Schuler	Bud	Papstein	WILDLIFE	REHABILITATION
		Michelle	Patterson	CENTER F	OR THE NORTH COAST
VOLUNTE	ERS	Mike	Patterson	Sharnelle	
Arnie	Ambuehl	Diana	Popp	onarriene	
Jim	Anderson	Bill	Price		
Kellie	Bakanen	Jim	Price		
Dave	Brown	Al	Rice		
Patty	Buettner	Dave	Riley		
Kathleen	Carder	Cheryl	Rorabeck-Siler		
Frank	Conley	Al	Rotz		
Rachel	Cornforth	Mae	Rotz		
Rob	Corrigan	Rich	Rush		
Ed	Cowles	Lynn	Sharp		
Don	DeWitt	John	Shaw		
Bill	Dingle	Hud	Sherlock		
Bruce	Dishaw	Jean	Sherlock		
Don	Dorbuck	Dick	Sim		
Laura	Dorbuck	Jan	Sim		
Cassandra		Brenda	Smits		
Evelyn	Everett	Chaz	Sohm		
Doug	Firstbrook	Craig	Stout		
Jeff	Fleischer	AI	Tschiegg		
Sue	Fleischer	Julie	Van Moorhem		
Stewart	Fletcher	Peter	Walczak		
Chris	Foster	Jim	Walthers		
Clint	Giberson	Carey	Weatherley		
Carole	Hallett	Aaron	Webb		
Gerry	Hill	Aidan	Webb		
Janet	Hohmann	Nathan	Webb		
Jack	Inman	Barbara	Woodhouse		
Eric	Isaacs	John	Woodhouse		
Wren					
Carol	lsaacs Karlen	WARM S	PRINGS TRIBES		
Charlotte	Kisling	Doug	Calvin		
Diane	Knox	Doug	Carvin		
	Lundsten				
John John	MacArthur		TON DEPARTMENT OF		
Dennis	MacAnnur Manzer	FISH & W			
		Shelly	Ament		
Michael	McKinney Mediae	David	Anderson		
Michael	Medina	Gretchen	Blatz		
Michael	Mefford	Eric	Holman		
Chuck	Meslow	Pat	Miller		
Teresa	Miller				