DEPARTMENT OF THE INTERIOR

Fish and Wildlife Service

50 CFR Part 17

RIN 1018-AC33

Endangered and Threatened Wildlife and Plants; Proposed Designation of Critical Habitat for the Marbled Murrelet

AGENCY: Fish and Wildlife Service,

Interior.

ACTION: Supplemental proposed rule.

SUMMARY: The U.S. Fish and Wildlife Service originally proposed to designate critical habitat for the marbled murrelet (*Brachyramphus marmoratus marmoratus*) in Washington, Oregon, and California on January 27, 1994 (59 FR 3811). Based on comments received on the original proposal and additional information, the Service has amended the proposed designation of critical habitat for the marbled murrelet, listed as a threatened species under the Endangered Species Act (Act).

The marbled murrelet is a small seabird of the Alcidae family that forages in the near-shore marine environment and nests in large trees in coniferous forest along the coast. Located primarily on Federal land, and to a lesser extent on State, county, city, and private lands, this amended critical habitat proposal would provide additional protection requirements under section 7 of the Act with regard to activities that are funded, authorized, or carried out by a Federal agency. Section 4 of the Act requires the Service to designate critical habitat for listed species on the basis of the best scientific information available and to consider the economic and other relevant impacts of including particular areas in the designation.

DATES: Comments from all interested parties must be received by October 10, 1995. The Service will hold five public hearings on this proposal. The dates and locations for the hearings are included in the Public Comments Solicited section, under the **SUPPLEMENTARY INFORMATION** caption.

ADDRESSES: Comments and materials concerning this proposal should be sent to the State Supervisor, U.S. Fish and Wildlife Service, Oregon State Office, 2600 SE 98th Avenue, Suite 100, Portland, Oregon, 97266. The complete file for this proposal is available for public inspection, by appointment, during normal business hours at the above address.

FOR FURTHER INFORMATION CONTACT: Russell Peterson, State Supervisor, U.S. Fish and Wildlife Service, see ADDRESSES section or telephone 503–231–6179 or FAX 503–231–6195.

SUPPLEMENTARY INFORMATION:

Background

Previous Federal Actions

On January 15, 1988, the U.S. Fish and Wildlife Service (Service) received a petition to list the North American subspecies of the marbled murrelet (Brachyramphus marmoratus marmoratus) in Washington, Oregon, and California as a threatened species under the Endangered Species Act. On October 17, 1988, the Service published a finding that the petition had presented substantial information to indicate that the requested action may be warranted (53 FR 40479). Because of the increased research effort and new information available, the status review period was reopened, with the concurrence of the petitioners, from March 5, 1990, through May 31, 1990 (55 FR 4913).

On June 20, 1991, the Service published a proposal to list the marbled murrelet in Washington, Oregon, and California as a threatened species (56 FR 28362). The comment period was reopened for 30 days on January 30, 1992, to gather the most updated information about the species (57 FR 3804). Following an order by the U.S. District Court for the Western District of Washington denying a 6-month extension, the Service published the final rule listing the marbled murrelet in Washington, Oregon, and California as a threatened species (57 FR 45328, Oct. 1, 1992). In February 1993, the Service appointed a Recovery Team to develop a recovery plan for the marbled murrelet.

On November 2, 1993, the U.S. District Court for the Western District of Washington granted a motion by the plaintiffs in *Marbled Murrelet* v. *Babbitt* to compel a proposed designation of critical habitat. In the ruling, the court ordered the Secretary of the Interior to propose designating critical habitat for the marbled murrelet no later than January 21, 1994, and to make a final designation of critical habitat as soon as reasonably possible under applicable law.

On January 27, 1994, the Service published a proposed rule for the designation of critical habitat for the marbled murrelet (59 FR 3811). Public comment was due by April 27, 1994. On March 14, 1994, the Service received a request for a public hearing. To allow additional comment, the public comment period was reopened for 30 days on May 9, 1994. The public hearing was conducted on May 24,

1994, in North Bend, Oregon. Based on comments received from the Recovery Team, other comments, and additional information, the Service has significantly amended its proposed critical habitat designation. Therefore, the Service is requesting public comment on all aspects of this amended proposal, including the draft economic analysis. The draft Recovery Plan for the marbled murrelet (USFWS 1995) is being released for public comment simultaneously with this proposal.

Ecological Considerations

The marbled murrelet is a small seabird of the Alcidae family. The North American subspecies ranges from the Aleutian Archipelago in Alaska, eastward to Cook Inlet, Kodiak Island, Kenai Peninsula and Prince William Sound, south along the coast through the Alexander Archipelago of Alaska, British Columbia, Washington, and Oregon to central California. Some wintering birds are found in southern California. A separate subspecies (Brachyramphus marmoratus perdix) occurs in Asia. Though recent genetic analysis indicates that the North American subspecies may warrant full specific status (Friesen et al. 1994), a status change has not yet been recognized.

Marbled murrelets spend most of their lives in the marine environment where they feed primarily on small fish and invertebrates in near-shore marine waters. They forage by pursuit diving in waters generally up to 80 meters (260 feet) deep and 0.3 to 2 kilometers (0.2 to 1.2 miles) off-shore. Pairs are often seen diving simultaneously, which researchers suggest may increase foraging efficiency (Strachan et al. 1995). Courtship behaviors have been observed at sea although copulation rarely has been witnessed. Marbled murrelets also aggregate, loaf, preen, and exhibit wing-stretching behaviors on the water.

Marbled murrelets nest inland, typically in large-diameter old-growth trees in low-elevation forests with multi-layered canopies (Hamer and Nelson 1995b). Marbled murrelets have been found occasionally on rivers and inland lakes (Carter and Sealy 1986; Strachan *et al.* 1995).

Marbled murrelets appear to be solitary in their nesting habits but are frequently detected in groups in the forest (USFWS 1995). Two nests discovered in Washington during 1990 were located within 46 meters (150 feet) of each other (Hamer and Cummins 1990), and two nests discovered in Oregon during 1994 were located within 33 meters (100 feet) of each other (K.

Nelson, OR Coop. Wildl. Res. Unit, pers. comm. 1995).

Nesting occurs over an extended period from late March to late September (Carter and Sealy 1987; Hamer and Nelson 1995b). During the breeding period, the female marbled murrelet lays a single egg in a tree containing a suitable nesting platform (e.g., large or forked limbs, dwarf mistletoe (Arceuthobium spp.) infections, witches brooms, deformities, etc. (Hamer and Nelson 1995b)). Both sexes incubate the egg in alternating 24hour shifts for approximately 30 days, and the young fledges after an additional 27 to 40 days (Simons 1980; Hirsch et al. 1981; Singer et al. 1991; Hamer and Nelson 1995a; Nelson and Hamer 1995a). Adults feeding young fly from ocean feeding areas to nest sites at all times of the day, but most often at dusk and dawn (Hamer and Cummins 1991; Nelson and Hamer 1995a). Chicks are fed at least once a day. The adults usually carry only one fish at a time to the young (Carter and Sealy 1987; Hamer and Cummins 1991; Singer et al. 1992; K. Nelson, pers. comm. 1992; Nelson and Hamer 1995a). The young are semi-precocial. Before leaving the nest, the young molt into a distinctive juvenile plumage. A fledgling's first flight is from the nest directly to the marine environment (Hamer and Cummins 1991).

Marbled murrelets have been observed at some inland sites during all months of the year (Paton *et al.* 1987; Naslund 1993). Attendance at breeding sites during the non-breeding season may enhance pair bond maintenance, facilitate earlier breeding, or reinforce familiarity with flight paths to breeding sites (Naslund and O'Donnell 1995; O'Donnell *et al.* 1995).

With respect to critical habitat, the Service considered two components of marbled murrelet habitat that are biologically essential—(1) terrestrial nesting habitat, and (2) marine foraging habitat used during the breeding season. Forested areas with conditions that support nesting marbled murrelets are referred to as "suitable nesting habitat." Marine areas with conditions that support foraging marbled murrelets are referred to as "suitable foraging habitat."

Throughout the forested portion of the species' range, marbled murrelets typically nest in forested areas containing characteristics of older forests (Binford *et al.* 1975; Sealy and Carter 1984; Carter and Sealy 1987; Carter and Erickson 1988; Marshall 1988; Paton and Ralph 1988; Nelson 1989, 1992; Hamer and Cummins 1990, 1991; Quinlan and Hughes 1990; Kuletz

1991; Singer *et al.* 1991, 1992; Nelson *et al.* 1992; Hamer *et al.* 1994; Ralph *et al.* 1995a).

The marbled murrelet population in Washington, Oregon, and California nests in most of the major types of coniferous forests in the western portions of these states, wherever older forests remain inland of the coast. Although marbled murrelet nesting habitat characteristics are somewhat variable throughout the range of the species, some general habitat attributes are characteristic throughout its range, including the presence of nesting platforms, adequate canopy cover over the nest, landscape condition, and distance to the marine environment.

Individual tree attributes that provide conditions suitable for nesting include large branches (average of 32 centimeters (13 inches), range of 10 to 81 centimeters (4 to 32 inches) in Washington, Oregon, and California) or forked branches, deformities (e.g., broken tops), dwarf mistletoe infections, witches brooms, or other structures large enough to provide a platform for a nesting adult murrelet (Carter and Sealy 1987; Hamer and Cummins 1990, 1991; Singer et al. 1991, 1992; Ralph et al. 1993; Hamer et al. 1994; Hamer and Nelson 1995b). These structures are typically found in old-growth and mature forests, but may be found in a variety of forest types including younger forests containing remnant large trees.

Northwestern forests and trees typically require 200 to 250 years to attain the attributes necessary to support marbled murrelet nesting, although characteristics of nesting habitat sometimes develop in younger coastal redwood (Sequoia sempervirens) forests. Forests with older residual trees remaining from earlier forests may also develop into nesting habitat more quickly than those without residual trees. These remnant attributes can be products of fire, wind storms, or previous logging operations that did not remove all of the trees. Other factors that may affect the time required to develop suitable nesting habitat characteristics include site productivity and microclimate.

As of January 1, 1994, 65 nests had been located in North America, including 6 in Washington, 22 in Oregon, and 10 in California (Binford et al. 1975; Varoujean et al. 1989; Quinlan and Hughes 1990; Hamer and Cummins 1990, 1991; Kuletz 1991; Singer et al. 1991, 1992; Hamer and Nelson 1995b). All of the nests in Washington, Oregon, and California were in large trees that were more than 81 centimeters (32 inches) diameter at breast height (dbh). Of the 37 nests for which data were

collected, 70 percent were on a moss substrate and 30 percent were on litter, such as bark pieces, conifer needles, small twigs, or duff. Fifty-nine percent of the nests were on large or deformed branches, 16 percent were on forked limbs, 6 percent were on a limb where it attached to the tree bole, 11 percent were on dwarf mistletoe, and 8 percent were on other structures (T. Hamer, Hamer Environmental, pers. comm. 1995).

More than 94 percent of the nests were in the top half of the nest trees, which may allow easy nest access and provide shelter from potential predators and weather. Canopy cover directly over the nests was typically high (average 84 percent, range 5 to 100 percent) in Washington, Oregon, and California (T. Hamer, pers. comm. 1995). This cover may provide protection from predators and weather. Such canopy cover may be provided by trees adjacent to the nest tree, and/or by the nest tree itself. Canopy closure of the nest stand/site varied between 12 and 99 percent and averaged 48 percent (T. Hamer, pers. comm. 1995).

Nest stand size in Washington, Oregon, and California varied between 3 and 1,100 hectares (7 and 2,717 acres) and averaged 206 hectares (509 acres) (Hamer and Nelson 1995b). Miller and Ralph (1995) found in California that stand size had no effect on whether murrelets were present or occupied a stand. However, the effects of stand size on murrelet presence and use may be masked by other factors such as small sample sizes in the larger stand categories, stand history, and proximity of a stand to other old-growth stands.

General landscape condition also may influence the degree to which marbled murrelets nest in an area. In Washington, marbled murrelet detections increased when old-growth/ mature forests comprised more than 30 percent of the landscape (Hamer and Cummins 1990). Hamer and Cummins (1990) found that detections of marbled murrelets decreased in Washington when the percentage of clear-cut/ meadow in the landscape increased above 25 percent. Additionally, Raphael et al. (1995) found that the percentage of old-growth forest and large sawtimber was significantly greater within 0.8kilometer (0.5-mile) of sites (203-hectare (501-acre) circles) that were occupied by murrelets than at sites where they were not detected. Raphael et al. (1995) suggested tentative guidelines based on this analysis that sites with 35 percent old-growth and large sawtimber in the landscape are more likely to be occupied. In California, Miller and Ralph (1995) found that the density of

old-growth cover and the presence of coastal redwood were the strongest predictors of murrelet presence.

Nests have been located in forested areas dominated by coastal redwood, Douglas-fir (*Pseudotsuga menziesii*), mountain hemlock (*Tsuga mertensiana*), Sitka spruce (*Picea sitchensis*), western hemlock (*Tsuga heterophylla*), and western redcedar (*Thuja plicata*) (Binford *et al.* 1975; Quinlan and Hughes 1990; Hamer and Cummins 1991; Singer *et al.* 1991, 1992; Hamer and Nelson 1995b). Individual nests in Washington, Oregon, and California have been located in Douglas-fir, coastal redwood, western hemlock, western redcedar, and Sitka spruce trees.

For nesting habitat to be accessible to marbled murrelets, it must occur at a distance from the marine environment consistent with the flight and energetic capabilities of the species. The farthest inland distance for a known occupied site is 84 kilometers (52 miles) in Washington. The farthest known inland occupied sites in Oregon and California are 61 and 56 kilometers (38 and 35 miles), respectively. Occupied sites are defined as forest stands where marbled murrelets have been observed exhibiting behaviors generally associated with nesting. Additionally, detections (not occupied sites) have been documented farther inland in Oregon (K. Nelson, pers. comm. 1995).

Marbled murrelet nests are difficult to locate for several reasons—(1) nests are generally located high in the canopy; (2) adults and juveniles have cryptic plumage during most of the nesting season; (3) adults can be extremely quiet in the vicinity of nests; and (4) adults may show activity near the nest only once per day, usually under low light conditions. Therefore, identification of occupied sites and suitable nesting habitat are the best indicators of potential nest sites. Indicators of occupied habitat include active nests; egg shell fragments; young found on the forest floor; marbled murrelets seen flying through the forest beneath the canopy, landing in trees, circling above the canopy, and calling from a stationary perch; or large numbers of murrelets heard calling from in and around a stand.

Inland, marbled murrelets are generally easier to detect at high-use sites during the spring and late summer when breeding activities peak (Paton and Ralph 1988; Nelson 1989). Inland detections of the species are less frequent during the early fall when murrelets have presumably completed breeding and are undergoing a flightless molt at sea. Similarly, detections are

more difficult in areas that support low numbers of reproducing pairs.

Marbled murrelets spend most of their lives in the marine environment where they consume a diverse group of prey. Maintaining areas that support populations of prey species juxtaposed with nesting areas are essential to maintaining successfully reproducing marbled murrelet populations (Burkett 1995). Murrelets often aggregate near local food concentrations, resulting in a clumped distribution in the marine environment (Sealy and Carter 1984). Prey breeding areas (e.g., near-shore kelp beds, sand or gravel beaches, sand banks, etc.) and areas where prey may concentrate (e.g., near-shore upwellings, waters at the mouths of bays and coastal rivers, eddies in the vicinity of headlands, river mouths and associated plumes, and tidal rips, etc.) are likely the most important features determining murrelet foraging opportunities (Ainley et al. 1995; Hunt 1995). Human-caused disturbances (e.g., intense commercial or recreational fishing) may affect prey density or accessibility.

Most of the information available about prey species of marbled murrelets is from the Gulf of Alaska and British Columbia, and is summarized by Burkett (1995). Marbled murrelets generally forage in near-shore marine waters at distances of 0.3 to 2 kilometers (0.2 to 1.2 miles) from shore; however, they occur at distances up to 24 kilometers (14 miles) from shore in reduced numbers. Marine systems producing sufficient prey to support marbled murrelets provide suitable foraging habitat for the species.

Marbled murrelets have been reported feeding on a wide variety of small fish and invertebrates, indicating their flexibility and capability to use alternative prey sources. Prey include Pacific sandlance (Ammodytes hexapterus), Pacific herring (Clupea harengus), northern anchovy (Engraulis mordax), osmerids, sea perch (Cymatogaster aggregata), euphausiids (Euphausia pacifica and Thysanoessa spinifera), mysids (Neomysis spp.), and amphipods, among others (Sealy 1975; Sanger 1987; Sanger and Jones 1981; Carter and Sealy 1990; Strong et al. 1993; Burkett 1995). Fish are an important component of the diet during the summer, which coincides with the nestling and fledgling periods, while euphausiids, mysids, and amphipods seem to be more important in the winter and spring in some areas (Munro and Clemens 1931; Sealy 1975; Krasnow and Sanger 1982; Sanger 1983, 1987; Carter 1984; Carter and Sealy 1990; Vermeer 1992; Burkett 1995).

Prior to euroamerican settlement, nesting habitat for the marbled murrelet was well-distributed, particularly in the wetter portions of its range in Washington, Oregon, and California. This habitat was generally found in large, contiguous blocks as described under the Management Considerations section of this proposed rule. The Recovery Team considered the loss of habitat to be one of the primary factors limiting current population size from British Columbia to California.

Currently, breeding populations of marbled murrelets are not distributed continuously throughout the species' range. Little habitat remains at low elevations in Washington's Puget Trough. Lands surrounding the Puget Trough, particularly to the east and south, are highly urbanized, developed for agricultural use, or contain young forests, forcing marbled murrelets to fly up to 42 kilometers (25 miles) inland to reach the first-available suitable nesting habitat.

Off the Oregon and California coasts, three areas where marbled murrelets are concentrated at sea correspond to the four largest remaining blocks of coastal older forest inland. These blocks of older forest are separated by areas of little or no habitat that correspond to areas where few marbled murrelets are found at sea (Strong et al. 1995; Varoujean and Williams 1995; Ralph and Miller 1995; Ralph et al. 1995b).

The area between the Olympic Peninsula in Washington and Tillamook County in Oregon (160 kilometers (100 miles)) contains few occupied sites or sightings of marbled murrelets. In California, approximately 480 kilometers (300 miles) separate the large breeding populations to the north in Humboldt and Del Norte Counties from the southern breeding population in San Mateo and Santa Cruz Counties. Currently this reach contains few marbled murrelets; however, the area likely contained significant numbers of marbled murrelets before extensive logging (Paton and Ralph 1988, Larsen 1991). The degree of interaction that occurs across these areas containing few murrelets is unknown.

Marbled murrelets are affected by impacts to their nesting habitat, marine foraging habitat, and food supply, as well as direct mortality from human activities such as oil spills and gill nets. Based on analyzing likely ranges of fecundity and survivorship of this species, Beissinger (1995) estimated that marbled murrelets in Washington, Oregon, and California are most likely declining at a rate between 4 and 6 percent per year.

Beissinger (1995) derived the range of fecundity estimates from reviewing the results of several studies of juvenile to adult ratios and nesting success. Fecundity, the number of female young produced annually per adult female, ranged from 0.06 to 0.18. Marbled murrelets have a low annual reproductive potential because they lay only one egg at a time and probably nest only once a year. To put these numbers in context, fecundity levels would need to be between 0.20 and 0.46 for the population to remain stable or increase (USFWS 1995). Beissinger obtained an estimated annual probability of 0.845 adult survivorship for marbled murrelets by applying Nur's (1993) results relating survival to body size and reproductive effort for 10 alcid species. Alcids typically experience high rates of mortality prior to attaining breeding age (Hudson 1985).

Beissinger (1995) then estimated lambda (λ), the expected annual growth rate of a population, for several likely combinations of fecundity and survival, all combinations of which showed population declines. The declines estimated by Beissinger's model are similar to population declines reported in two field data sets from Alaska (spanning 20 years) and British Columbia (spanning 10 years).

The current declining population numbers may be related to several factors. In addition to habitat loss and fragmentation, which may reduce nesting success, declines may be exacerbated by high mortality rates of the young of the year prior to reaching the ocean, and high mortality rates of juveniles and adults in the marine and terrestrial environments.

Marbled murrelets display a variety of morphological and behavioral characteristics indicative of selection pressures from predation at nest sites. For example, plumage and eggshells exhibit cryptic coloration and adults fly to and from nests by indirect routes and often under low-light conditions (Nelson and Hamer 1995a). Potential nest predators include the common raven (Corvus corvax), Steller's jay (Cyanocitta stelleri), American crow (Corvus brachyrhynchos), great horned owl (Bubo virginianus), sharp-shinned hawk (Accipiter striatus), Cooper's hawk (Accipiter cooperii), northern goshawk (Accipiter gentilis), raccoon (Procyon lotor), marten (Martes americana), and fisher (Martes pennanti). Ravens, Steller's jays, and possibly great horned owls are known predators of eggs or chicks (Nelson and Hamer 1995b).

From 1974 through 1993, approximately 64 percent of the

marbled murrelet nests in Washington, Oregon, and California failed, where nest success/failure was documented. Of those nests, 57 percent failed due to predation (Nelson and Hamer 1995b). The relatively high predation rate could be biased because nests near forest edges may be more easily located by observers and more susceptible to predation and because observers may attract predators. Hamer and Nelson (1995b) believed that researchers had minimal impacts on predation in most cases because the nests were monitored from a distance and relatively infrequently, and precautions were implemented to minimize predator attraction.

Although the effect of habitat alterations on predation of marbled murrelet nests has not been specifically studied, a comparison has been made of successful nests and those that failed because of predation. Nelson and Hamer (1995b) found that successful nests were significantly farther from forest edges and were better concealed than unsuccessful nests.

Several possible reasons exist for the high observed predation rates of marbled murrelet nests. Populations of corvids (jays, crows, and ravens) and great horned owls are increasing in the western United States, largely in response to habitat changes and food sources provided by humans (Robbins et al. 1986; Rosenberg and Raphael 1986; Johnson 1993; Marzluff et al. 1994). Creation of forest edge habitat, at least in some forest-dominated landscapes, has been implicated in increased forest bird nest predation rates (Chasko and Gates 1982; Yahner and Scott 1988), and in general, nesting success has been shown to decline near forest edges (Paton 1994). Studies of artificial nests in Pacific Northwest forests also indicated that predation of forest birds' nests may be affected by habitat fragmentation and forest management (Vega 1993; Bryant 1994; C. Chambers, Oregon State University, pers. comm. 1994). Larger stands contain sufficient internal structure to potentially minimize the risk of predation at the nest and provide suitable climatic conditions for nesting.

Mortality of adults and juveniles occurs in the terrestrial and the marine environments. For example, in the terrestrial environment adult marbled murrelets have been preyed upon by sharp-shinned hawks, peregrine falcons (Falco peregrinus), bald eagles (Haliaeetus leucocephalus), and possibly merlins (F. columbarius) (Marks and Naslund 1994).

In the marine environment, oil spills and commercial net fisheries adversely

affect marbled murrelets. Clean water is important for survival and completion of the murrelet's life cycle and for the conservation of the species. Clean, unpolluted water is essential for maintaining the health of individual marbled murrelets and prey species, and for providing areas for social interactions and other behaviors.

Marbled murrelets have a high vulnerability to oiling, and oil spills have had catastrophic effects when large spills have occurred in the vicinity of murrelet concentrations. Areas where impacts have been particularly severe include Prince William Sound in Alaska, western Washington, and central California (Carter and Kuletz 1995). The 45 marbled murrelets recovered after the *Tenyo Maru* spill in 1991 at the mouth of the Strait of Juan de Fuca in Washington was the greatest number of murrelets recovered in any oil spill, with the exception of the Exxon Valdez oil spill, and represented a significant portion of the local population (Carter and Kuletz). Oil spills may also affect forage fish populations (Irons 1992; Oakley and Kuletz 1994; Piatt and Anderson In press), reduce reproductive success, and disrupt breeding activity (Carter and Kuletz 1995). Chronic oil pollution can cause mortality through oiling and ingestion of oil. Other forms of pollution may also affect birds directly through toxic effects on their food supply.

Mortality of marbled murrelets from entanglement and drowning in fishing nets has declined in recent years in Washington, Oregon, and California, but is still of concern, particularly in Washington. Gill-net fisheries are most significant as a threat to murrelets in the marine environment in Washington, although closures of some areas, specifically to protect marbled murrelets, are proposed for the 1995 season (National Marine Fisheries Service 1995). Gill-net fisheries no longer occur in Oregon, with the exception of the Columbia River. In California, fishing regulations protect most murrelets from this type of mortality (Carter et al. 1995)

Gill-net fisheries occur at the mouth of the Columbia River, in Willapa Bay, Grays Harbor, the Strait of Juan de Fuca, and Puget Sound, although fishing efforts in coastal fisheries have been greatly reduced because of depressed salmon (*Oncorhynchus* spp.) runs. An observer program in 1994 in the allcitizens and Tribal sockeye salmon (*Oncorhynchus nerka*) drift gill-net fishery of north Puget Sound, which is the most significant fishery in Puget Sound, estimated an entanglement of 15 murrelets, with a range of 2 to 59

murrelets (Pierce et al. in draft). Entanglement in other Washington drift net and set gill-net fisheries has also been documented (Speich and Wahl 1989; Craig and Cave 1993; BIA 1994; J. Grettenberger, USFWS, pers. comm. 1995). Observer programs in 1993 and 1994 in Puget Sound salmon purse seine fisheries indicated that entanglement rates of marbled murrelets were much lower with this gear type (Natural Resources Consultants 1995).

Adults are also subject to other sources of mortality. Marbled murrelets have been accidentally hooked on fishing lures, and could also become entangled in fishing line (Campbell 1967; Burger 1993). In general, increased mortality of adult seabirds and decreased reproductive efforts have been linked with El Niño episodes when food supplies are depressed (Graybill and Hodder 1985). However, marbled murrelets have evolved to survive El Niño events over the long term (USFWS 1995)

Management Considerations

Marbled murrelets are found in forests containing a variety of structures, which are in part the result of varied management practices. In many areas, management practices have resulted in fragmentation of the remaining older forests and creation of large areas of younger forests that have yet to develop habitat characteristics suitable for marbled murrelet nesting. Past and current forest management practices have also resulted in a forest age distribution skewed toward youngeraged stands at a landscape scale.

In many portions of the range of the marbled murrelet, forest management has historically concentrated on clear-cut logging. After forests are clear-cut, the areas are traditionally replanted to a single or few tree species and maintained as even-aged stands for maximum wood-fiber production. Site-preparation and management activities may further decrease species' diversity. These methods include prescribed burning and the use of herbicides or mechanical methods to control competing vegetation.

Historical logging practices in some portions of the species' range consisted of more selective timber harvest, leaving remnant patches of forests of varying ages with older forest characteristics. The uneven-aged management practices used in these areas usually resulted in more diverse forests that may provide some nesting habitat where a few trees containing suitable marbled murrelet nesting structure remain.

Current and historic marbled murrelet habitat loss is generally attributed to

timber harvest and land conversion practices, although, in some areas, natural catastrophic disturbances such as forest fires have caused losses. Reduction of the remaining older forest has not been evenly distributed in western Washington, Oregon, and California. Timber harvest has been concentrated at the lower elevations and in the Coast Ranges (Thomas *et al.* 1990), generally overlapping the range of the marbled murrelet.

Habitat for marbled murrelets has been generally declining since the arrival of European settlers. Bolsinger and Waddell (1993) estimated that oldgrowth forest in Washington, Oregon, and California have declined by twothirds statewide during the last five decades. Information specific to the range of the marbled murrelet is not available. Historic forest conditions have been estimated for western Washington and Oregon by several authors. Marbled murrelet habitat represents a significant portion of area included in these estimates, therefore, trends in habitat are assumed to follow the same general pattern identified for the larger area.

Although the extent of mature and old-growth forest before the 1800s is difficult to quantify, western Washington and Oregon are estimated to have been covered by approximately 9.7 to 12.8 million hectares (24 to 32 million acres) of forest at the time of euroamerican settlement in the early to mid-1800s, of which about 5.6 to 7.9 million hectares (14 to 20 million acres) (60 to 70 percent) are estimated to have been old-growth (Society of American Foresters Task Force 1983; Spies and Franklin 1988; Morrison 1988; Norse 1988; Booth 1991; Ripple 1994). As of 1991, there were approximately 1.4 million hectares (3.4 million acres) of old-growth forest remaining in western Washington and Oregon, an 82 percent reduction from estimated prelogging levels (Booth 1991).

Estimates for a similar time period in northwestern California are not as precise, but suggest there were between 526,000 and 1.3 million hectares (1.3 and 3.2 million acres) of old-growth Douglas-fir/mixed conifer forest and approximately 890,000 hectares (2.2 million acres) of old-growth coastal redwood forest (Society of American Foresters Task Force 1983; Laudenslayer 1985; Fox 1988; California Department of Forestry and Fire Protection 1988; Morrison 1988). Currently there are approximately 28,000 hectares (70,000 acres) of old-growth coastal redwood forest remaining in California (Larsen 1991).

Some of the forests that were affected by past natural disturbances, such as forest fires and windthrow, currently provide suitable nesting habitat for marbled murrelets because they retain scattered individual or clumps of large trees which provide structure for nesting. This is particularly true in coastal Oregon where extensive fires occurred historically. Marbled murrelet nests have been found in remnant oldgrowth trees in mature forests in Oregon.

Forests providing suitable nesting habitat and nest trees generally require 200 to 250 years to develop characteristics that supply adequate nest platforms for marbled murrelets. This time period may be shorter in redwood forests and in areas where significant remnants of the previous stand remain. Intensively managed forests in Washington, Oregon, and California have been managed on average cutting rotations of 70 to 120 years (USDI 1984; USDA 1988). Cutting rotations of 40 to 50 years are common for some private lands. Timber harvest strategies on Federal lands and some private lands have emphasized dispersed clear-cut patches and even-aged management. Forest lands that are intensively managed for wood fiber production are generally prevented from developing the characteristics required for marbled murrelet nesting. Suitable nesting habitat that remains under these harvest patterns is highly fragmented.

Previous Management Efforts

In May 1991, the U.S. House of Representatives' Committees of Agriculture and Merchant Marine and Fisheries commissioned the Scientific Panel on Late-Successional Forest Ecosystems (Scientific Panel) to provide an array of alternatives for the management of Late-Successional forests on Federal lands in the range of the northern spotted owl (Strix occidentalis caurina). Information about the known inland locations of marbled murrelets and marbled murrelet habitat was included in the base information used by the Scientific Panel and was specifically considered in developing the alternatives. The proposed reserve system developed by the Scientific Panel is often referred to as Late-Successional/Old-Growth areas (LSOGs).

Since the listing of the marbled murrelet population of Washington, Oregon, and California as threatened, several different approaches to management of the species or its habitat have been developed through various Federal efforts.

In March 1993, the U.S. Forest Service (Forest Service) released its Scientific Analysis Team Report (Thomas et al. 1993). In this report, the Forest Service proposed several interim measures designed to preserve options for management of marbled murrelets and their habitat until the Marbled Murrelet Recovery Plan could be completed and implemented. The measures included-(1) the protection of all marbled murrelet nesting habitat within 83 kilometers (50 miles) of the marine environment in Washington and Oregon north of Oregon State Highway 42 and within 58 kilometers (35 miles) of the marine environment in the remainder of Oregon and California; and, (2) the protection of amounts of "recruitment" habitat (young stands likely to develop into suitable nesting habitat) equivalent to 50 percent of the total amount of existing suitable nesting habitat. Also, seasonal restrictions on timber harvest operations in and near suitable nesting habitat were identified to avoid disturbing nesting marbled murrelets.

In July 1993, the Service, Forest Service, U.S. Bureau of Land Management, National Park Service, National Marine Fisheries Service, and U.S. Environmental Protection Agency released the Report of the Forest Ecosystem Management Assessment Team (FEMAT Report) (USDA et al. 1993a). From this report the President identified Option 9 as the preferred management option. Option 9 is described as Alternative 9 in the Final Supplemental Environmental Impact Statement on Management of Habitat for Late-Successional and Old-Growth Forest Related Species Within the Range of the Northern Spotted Owl (USDA et al. 1993b). Alternative 9 was adopted through the Record of Decision for Amendments to the Forest Service and Bureau of Land Management Planning Documents Within the Range of the Northern Spotted Owl (ROD) and is referred to as the Northwest Forest Plan (USDA and USDI 1994).

Within the range of the marbled murrelet, the Northwest Forest Plan designates a system of Late-Successional Reserves, which provides large areas expected to eventually develop into contiguous, unfragmented forest. This reserve system was constructed in part around the LSOGs designated by the Scientific Panel.

In addition to Late-Successional Reserves, the Northwest Forest Plan designates a system of Adaptive Management Areas, where efforts focus on answering management questions, and matrix areas, where most forest production occurs. Administratively withdrawn lands, as described in the individual National Forest or Bureau of Land Management land use plans, are also part of the Northwest Forest Plan.

Specific measures in the Northwest Forest Plan protect all forest sites occupied by marbled murrelets outside of the Federal reserve system. These measures include surveys prior to activities that may affect habitat and protection of contiguous marbled murrelet nesting and recruitment habitat (stands capable of becoming suitable nesting habitat within 25 years) within 0.8-kilometer (0.5-mile) of areas occupied by murrelets.

An assessment of population viability of marbled murrelets was conducted by the FEMAT and resulted in about a 60 percent likelihood (with a range of 50 to 75 percent) that the marbled murrelet population on Federal lands would be stable and well distributed after 100 years, regardless of which option was selected. An additional assessment based only on habitat conditions resulted in an 80 percent likelihood that marbled murrelet populations would remain stable and well distributed on Federal lands.

The Service recognizes the value of the Northwest Forest Plan (USDA and USDI 1994) and acknowledges its integral role in marbled murrelet conservation. The Northwest Forest Plan complements this critical habitat proposal by stressing the need for protection of large, unfragmented areas of suitable nesting habitat that are well-distributed throughout the species' range, with special emphasis on areas close to the marine environment.

The marbled murrelet Recovery Team continues to work on a Recovery Plan that will outline a strategy for recovery. The draft Marbled Murrelet (Washington, Oregon, and California Population) Recovery Plan (Draft Recovery Plan) (USFWS 1995) suggested the establishment of six Marbled Murrelet Conservation Zones where viable populations of murrelets should be maintained in Washington, Oregon, and California. The Recovery Team would designate the Marbled Murrelet Conservation Zones to address differing needs for recovery actions in portions of the marbled murrelet's range and to maintain well-distributed populations. The zones are generally described as-(1) the Puget Sound Conservation Zone includes all the waters of Puget Sound, the eastern waters of the Strait of Juan de Fuca and associated inland habitat within the range of the marbled murrelet; (2) the Western Washington Coast Range Conservation Zone includes the outer coast of Washington, the western waters of the Strait of Juan de Fuca and associated inland habitat

within the range of the marbled murrelet; (3) the Oregon Coast Range Conservation Zone includes most of the coastal waters of Oregon and associated inland habitat within the range of the marbled murrelet; (4) the Siskiyou Coast Range Conservation Zone includes a portion of the coastal waters of Oregon and California and associated inland habitat within the range of the marbled murrelet; (5) the Mendocino Conservation Zone includes a portion of the California coastal waters and associated inland habitat within the range of the marbled murrelet; and (6) the Santa Cruz Mountains Conservation Zone includes a portion of the central California coastal waters and associated inland habitat within the range of the marbled murrelet (USFWS 1995).

In addition, the Forest Service has assembled "Ecology and Conservation of the Marbled Murrelet," a compilation of original studies and literature reviews, that represents the most current treatise on marbled murrelets (Ralph *et al.* 1995a). The conservation assessment will aid in the management of marbled murrelets considering the difficulties associated with gaining information about this species. Ralph *et al.* (1995b) suggested adding additional conservation zones to include all of the murrelet populations in North America.

The Oil Pollution Act of 1990 addresses the development of a national planning and response system for spills in marine and freshwater environments. A variety of planning efforts are underway that address responses to worst-case discharges of oil or hazardous substances, and mitigation or prevention of a substantial threat of discharge from a vessel, offshore facility, or onshore facility. Planning efforts include the development of a national contingency plan, regional area contingency plans, and local geographic response plans. The Service has worked extensively with the U.S. Coast Guard, industry representatives, local and response communities, and other State, Federal, and Tribal natural resource trustees to develop area contingency plans and geographic response plans for Pacific coastal areas. These plans address mechanical recovery, use of dispersants, in-situ burning, shoreline cleanup, protection of sensitive areas, as well as protection, rescue, and rehabilitation of fish and wildlife. These planning efforts and associated spill exercises should help prevent or minimize the impact of spills on natural resources.

Mortality of marbled murrelets in commercial net fisheries in Washington has been addressed through changes in State regulations. In 1995, the State of Washington and the Tribes instituted area closures in a number of areas with high densities of marbled murrelets to reduce the potential for entanglement. In addition, efforts are underway to evaluate modified gillnets designed to reduce seabird entanglement, as well as research to evaluate the fisheries/ murrelet overlap and factors that affect entanglement. Éducational programs that provide material to fisherman on marbled murrelet identification and distribution have been implemented. Through section 7 consultation, observer programs were required in 1993 and 1994 to evaluate and quantify the extent of marbled murrelet mortality in purse seine and gillnet salmon fisheries (U.S. Fish and Wildlife Service 1995a, 1995b, 1995c).

Critical Habitat

Critical habitat is defined in section 3(5)(A) of the Act as—"(i) the specific areas within the geographical area occupied by the species, at the time it is listed * * * on which are found those physical or biological features (I) essential to the conservation of the species and (II) which may require special management considerations or protection; and (ii) specific areas outside the geographical area occupied by a species at the time it is listed * upon determination * * * that such areas are essential for the conservation of the species." 16 U.S.C. 1532(5)(A). The term "conservation," as defined in section 3(3) of the Act, means "* * use and the use of all methods and procedures which are necessary to bring any endangered species or threatened species to the point at which the measures provided pursuant to this (Act) are no longer necessary * * *" 16 U.S.C. 1532(3).

Role in Species Conservation

The use of the term "conservation" in the definition of critical habitat indicates that its designation should include habitat crucial to a species' eventual recovery and delisting. However, when critical habitat is designated at the time a species is listed or before a recovery plan is completed, the Service frequently does not know all of the habitat areas that are essential for a species' recovery. Thus, the Act provides that critical habitat designations may be revised from time to time (16 U.S.C. 1533 (a)(3)(B)).

The designation of critical habitat is one of several measures available to contribute to the conservation of a listed species. Critical habitat helps focus conservation activities by identifying areas that contain essential habitat features (primary constituent elements),

thus alerting the public to the importance of an area in the species' conservation. Critical habitat also identifies areas that may require special management or protection. The identification of these areas may be helpful in planning land use activities and highlighting critical areas for consideration in developing habitat conservation plans for section 10 incidental take permit applications. The added emphasis on these areas for conservation of the species may shorten the time needed to achieve recovery.

Critical habitat receives consideration under section 7 of the Act with regard to actions carried out, authorized, or funded by a Federal agency. As such, designation may affect non-Federal lands only where such a Federal nexus exists. Federal agencies must insure that their actions do not result in destruction or adverse modification of critical habitat. Aside from this added consideration under section 7, the Act does not provide any additional protection to lands designated as critical habitat. Designating critical habitat does not create a management plan for the areas; does not establish numerical population goals or prescribe specific management actions (inside or outside of critical habitat); and does not have a direct effect on areas not designated as critical habitat. Specific management recommendations for critical habitat are addressed in recovery plans, management plans, and in section 7 consultation.

Primary Constituent Elements

A designation of critical habitat begins by identifying areas where the physical and biological features essential to conservation of a species are found. In determining which areas to designate as critical habitat, the Service considers those physical and biological features that are essential to a species' conservation and that may require special management considerations or protection. Such physical and biological features, as stated in 50 CFR 424.12, include, but are not limited to, the following:

- (1) Space for individual and population growth, and for normal behavior;
- (2) Food, water, air, light, minerals or other nutritional or physiological requirements;
 - (3) Cover or shelter;
- (4) Sites for breeding, reproduction, rearing of offspring; and
- (5) Habitats that are protected from disturbance or are representative of the historic geographical and ecological distributions of a species.

The Service is required to base critical habitat designations on the best scientific data available (50 CFR 424.12). In proposing to designate critical habitat for the marbled murrelet in Washington, Oregon, and California, the Service has reviewed its overall approach to the conservation of the species. For a thorough discussion of the ecology and life history of this subspecies, see the Service's Biological Report (Marshall 1988), the final listing rule published in the **Federal Register** on October 1, 1992 (57 FR 45328), The Status and Conservation of the Marbled Murrelet in North America (Carter and Morrison 1992), the draft Recovery Plan (USFWS 1995), the Ecology and Conservation of the Marbled Murrelet (Ralph et al. 1995a), and the Ecological Considerations section of this proposed

The Service has determined that the physical and biological habitat features (referred to as the primary constituent elements) associated with the terrestrial environment that support nesting, roosting, and other normal behaviors are essential to the conservation of the marbled murrelet and require special management considerations.

Within areas essential for marbled murrelet nesting, the Service has focused on the following primary constituent elements: (1) individual trees with potential nesting platforms, (2) forested areas surrounding and contiguous to potential nest trees with canopy height of at least one-half the site-potential tree height, (3) forested areas of at least one-half the sitepotential tree height regardless of the presence of potential nest platforms. These primary constituent elements are essential to provide and support suitable nesting habitat for successful reproduction of the marbled murrelet.

Individual nest trees include large trees, generally more than 81 centimeters (32 inches) dbh with the presence of potential nest platforms or deformities such as large or forked limbs, broken tops, dwarf mistletoe infections, witches brooms, or other formations providing platforms of sufficient size to support adult murrelets. Because marbled murrelets do not build nests, moss or detritus may be important to cushion or hold the egg. Platforms should have overhead cover for protection from predators and weather, which may be provided by overhanging branches, limbs above the nest area, or branches from neighboring trees. Based on current information from Washington, Oregon, and California, nests have been found in Douglas-fir, coastal redwood, western hemlock,

western redcedar, or Sitka spruce (Hamer and Nelson 1995b).

Nesting habitat includes the forested areas in which the nest trees are contained. Nesting areas are defined as contiguous forest surrounding potential nest trees with no separations of more than 100 meters (330 feet) wide from adjacent forested areas. Nest trees may be scattered or clumped throughout the area. Nesting areas may contain fewer than one suitable nesting tree per acre. Regardless of the distribution of nest trees, nesting habitat includes the entire contiguous forested area with canopy height of at least one-half the sitepotential tree height. The site-potential tree height is the average maximum height possible for a tree given the local growing conditions. The forested area surrounding the nest tree may provide protection from predators and climatic factors by reducing effects from forest

On a landscape basis, the presence of late-successional forest with canopy closure and canopy height of at least one-half the site-potential tree height contributes to the conservation of the marbled murrelet, even if these forests do not contain potential nest trees. These forests may increase the amount of cover for murrelets in flight to and from the nest, reduce the differences in microclimates associated with forested and unforested areas, and reduce potential for windthrow during storms. Raphael et al. (1995) found that occupied sites have significantly larger proportions of old-growth and large sawtimber in the vicinity.

Criteria for Identifying Proposed Critical Habitat

Several qualitative criteria were considered in the selection of specific areas as proposed critical habitat. These criteria are generally similar to criteria used in the development of several recent Federal management proposals, such as the Scientific Panel (Johnson *et al.* 1991) and Northwest Forest Plan (USDA and USDI 1994). The following is a description of the criteria considered:

Suitable Nesting Habitat: Proposed critical habitat units include areas with current suitable nesting habitat and other primary constituent elements. Forests that are not currently suitable for nesting, but that are at least one-half the site-potential tree height of the area, are also important in improving habitat conditions through reduced fragmentation and creation of large contiguous forested areas that may reduce the potential for predation.

Survey Data: Information about presence/absence and occupancy were

used to indicate murrelet use areas. Proposed critical habitat units include most of the known sites occupied by marbled murrelets on Federal, State, County, and private lands. However, known occupied sites may represent only a small portion of the population due to the limited coverage of past survey efforts.

Proximity to Marine Foraging Habitat:
During the nesting season, marbled murrelets forage in the marine environment and return to the nest at least once daily carrying a prey item to their young. Foraging and nesting habitat areas must be juxtaposed within the flight capabilities and energetic limits of the species. Proposed critical habitat units were designated, taking into account the distance of murrelet detections from the marine environment in a given area.

Risk of Catastrophic Events: Proposed critical habitat units include areas where the risk of human-caused catastrophic events such as wildfires is high and high numbers of marbled murrelets are present.

Large, Contiguous Blocks of Nesting Habitat: In response to the problems of fragmentation of suitable habitat, potential increases in predation, and reduced reproductive success, the Service concentrated on defining proposed critical habitat units in terms of large, contiguous blocks of latesuccessional forest. The Service used the Late-Successional Reserve system identified in the Northwest Forest Plan (USDA and USDI 1994) to the extent possible to provide large blocks of habitat. Marbled murrelet locations and habitat were considered in the development of these reserves. State, County, private, and city lands were included where large blocks of Federal reserve areas were insufficient or not available, but critical habitat was crucial to retaining distribution of the species.

Rangewide Distribution: To maintain the current distribution of the species and reduce the impact of catastrophic losses of habitat or murrelets, proposed critical habitat units were identified throughout the range of the species in the three states. With well-distributed critical habitat, the probability of catastrophic wildfires or storm events threatening the survival or recovery of the species in Washington, Oregon, and California would be reduced. Maintaining suitable nesting habitat, and therefore local murrelet concentrations, throughout the range of the species would reduce the effect of potential losses from oil spills or other marine events. Given the intense site fidelity of many alcid species, maintaining rangewide distribution may also provide potential source populations for the recolonization of future habitat.

Adequacy of Existing Protection and Management: The Service considered the existing legal status of lands in proposing areas as critical habitat. Areas with permanent legal protection of wildlife, such as congressionally designated wilderness areas, national parks, and national wildlife refuges are generally not proposed unless specific threats were identified which are not addressed by existing management and protection.

Proposed Areas Identified by Applying Criteria

Application of the foregoing criteria and consideration of comments and information received as a result of the initial proposal has resulted in a proposed designation of additional areas beyond those in the January 27, 1994, proposal. These additional areas include Federal and non-Federal lands.

The current proposal includes many of the Late-Successional Reserves, as described in the Northwest Forest Plan, on Federal lands within the range of the marbled murrelet in Washington, Oregon, and California. These areas, as managed under the Northwest Forest Plan, will develop into large blocks of suitable murrelet nesting habitat over time. However, the Recovery Team has commented that these areas alone are insufficient to reverse the current population decline in marbled murrelets and maintain a well-distributed population. Portions of Congressionally Withdrawn Areas are proposed where the area provides essential nesting habitat and is subject to external threats because the government does not own the timber rights on some of the land.

The FEMAT report recognized the limited ability of Federal agencies to recover this species on Federal lands alone. "Although the Forest Ecosystem Management Assessment was designed to address only Federal lands within the range of the northern spotted owl, the marbled murrelet is an example of a species whose life history requirements cannot be accommodated only on Federal lands. The marbled murrelet is a seabird that nests inland and therefore is influenced by both the marine and terrestrial environments. Its nesting range in the three-state area includes land that is south of the range of the northern spotted owl. In addition, several areas that are considered key to the recovery of the marbled murrelet involve private and state lands' (FEMAT Report at IV-151 and IV-152, USDA et al. 1993a).

Based on information provided in public comments, including the recommendations of the Marbled Murrelet Recovery Team (Miller et al., In litt. 1994), the Service is now proposing to designate selected non-Federal lands that meet the requirements identified in the Criteria for Identifying Critical Habitat section, where Federal lands alone are insufficient to provide suitable nesting habitat for the recovery of the species.

State lands are proposed for critical habitat designation where Federal lands are limited or nonexistent and where they were considered by the Recovery Team as essential for maintaining marbled murrelet populations and nesting habitat. State lands are particularly important in southwestern Washington, northwestern Oregon, and California south of Cape Mendocino. Small segments of county lands are also included in northwestern Oregon and central California.

Some private lands are being proposed as critical habitat because they provide essential elements. These areas include the Arlecho Basin supporting occupied sites in the lowlands of northern Washington; land supporting known occupied sites in southwestern Washington and in Oregon; nesting habitat and occupied sites for the at-sea murrelet population in the southern portion of the Recovery Team's proposed Marbled Murrelet Conservation Zone 4 in California; and nesting habitat for the central California population. State, county, city, and private lands contain the last remnants of nesting habitat for the southern-most population of murrelets, which is the smallest, most isolated, and most susceptible to extirpation.

Areas Not Proposed

Not all suitable nesting habitat is included in the proposed critical habitat units. Emphasis has been placed on those areas considered most essential to the species' conservation in terms of habitat, distribution, and ownership. That does not mean that lands outside of proposed critical habitat units are not important to the marbled murrelet. Some Federal lands outside of proposed critical habitat are expected to receive additional protection from the conservation measures proposed in the Northwest Forest Plan. Under the ROD, all marbled murrelet habitat will be surveyed prior to removal or degradation of habitat and all occupied sites will be protected. The Adaptive Management Areas, matrix lands, and administratively withdrawn lands contain areas of occupied habitat that would be protected from timber harvest.

Some habitat on non-Federal lands may receive protection through prohibitions of take of marbled murrelets under section 9 of the Act.

The Hoopa Valley Indian Reservation (Reservation) was considered but not proposed for critical habitat designation because no occupied sites have been documented after 3 years of surveys on various portions of the Reservation. The Reservation contains only moderate quality marbled murrelet habitat and is surrounded by Federal lands. Some of those Federal lands contain high quality habitat supporting occupied sites and are either proposed or protected as a Congressionally Withdrawn Area.

Three other areas of Tribal land were considered for inclusion in critical habitat, including portions of Quinault and Makah Reservations in Washington and lands owned by the Siletz Tribe in Oregon. The Makah Reservation was not proposed because little habitat remains in this area. The Quinault and Siletz lands support marbled murrelets and contain suitable habitat. However, the Service did not propose these areas because while they are important to the conservation of marbled murrelets, there are alternative approaches to achieving the conservation of murrelets on these lands, including consultations under section 7 of the Act and development of habitat conservation plans under section

The Service considered including five marine areas in critical habitat. Clean water and accessible foraging opportunities are important life history requirements for the marbled murrelet. These five areas support the highest concentrations of murrelets during the breeding season in Washington, Oregon, and California. One area consisted of the waters of Puget Sound and the Strait of Juan de Fuca in Washington, including the waters surrounding the San Juan Islands. The Service also considered near shore waters (within 2 km (1.2 mi) of the shore) along the Pacific coast from Cape Flattery to Point Grenville in Washington, from Newport Bay to Coos Bay in Oregon, from the California State border to Cape Mendocino in northern California, and from Pillar Point to Davenport in central California. While these areas are extremely important to the conservation of marbled murrelets. the Service does not believe that these areas meet section 3(5)(A)(i)(II) of the Act, in that they do not need special management consideration or protection beyond that provided by existing Federal laws and regulations, which was discussed in the Previous Management Efforts section.

While the Recovery Plan clearly indicates that marine habitat is

important to the survival of marbled murrelets, it also indicates that the primary concern with respect to declining murrelet populations is loss of nesting habitat. The Service's evaluation of the effects of actions in the terrestrial environment focuses on the impacts to the species habitat, although take of murrelets is also addressed. With respect to the marine environment, however, the Service is primarily concerned with mortality issues.

Activities or events that adversely affect marbled murrelets at sea seem to be more associated with the mortality of individual birds than with long-term destruction or adverse modification of habitat. For example, gill-net fisheries result in incidental capture of murrelets, but may not significantly adversely affect the prey base. Murrelets appear to forage opportunistically on available fish, and are likely able to respond to slight changes in fish abundance.

Murrelets are also adversely affected by spills of oil and other pollutants. Although these events undoubtedly harm the murrelet prey base, they also result in the death of birds in the area of the event. The effects of these events on the murrelet prey base are somewhat more difficult to predict, than are the effects on any murrelets that happen to be in the area. The Service's assessments of these events typically relies upon an assessment of the mortality issue rather than an assessment of habitat issues such as prey base.

Thus, given the Service's current focus with respect to impact assessment, designation of critical habitat in the terrestrial environment is appropriate; however, designation of critical habitat in the marine environment would not provide additional benefits to marbled murrelets.

Congressionally Withdrawn Areas

Congressionally Withdrawn Areas (e.g., wilderness areas and national parks) are limited in the range of the marbled murrelet in Washington, Oregon, and California. Few wilderness areas are within the flight distance of marbled murrelets from the marine environment, though some of these areas provide crucial contributions to the conservation of the species. Wilderness areas and national parks contain approximately 302,000 hectares (747,000 acres) of marbled murrelet nesting habitat, representing 29 percent of the suitable nesting habitat on Federal lands in the range of the marbled murrelet. However, a substantial portion of these areas is incapable of producing marbled murrelet nesting habitat because of

forest composition, lack of forest cover, elevation, and other constraints and, by themselves, Congressionally Withdrawn Areas are incapable of supporting stable and interactive populations of marbled murrelets.

Marbled murrelet habitat in Congressionally designated wilderness areas, national parks, national monuments (natural areas), and national wildlife refuges is generally managed to protect natural ecosystems and for the benefit of wildlife. Thus habitat in these areas generally does not require special management consideration or protection. For example, a potential highway realignment through the Redwood National Park in northern California could result in the removal of occupied habitat. The Park's authority and general management goals are considered adequate to conserve the species without the additional designation of critical habitat. However, not all Congressionally Withdrawn Areas are managed in this manner. For example, some national recreation areas may not be managed to maintain older forest habitats or may face external actions (e.g., outside ownership of

mineral or timber rights) which threaten marbled murrelet habitat within the

One Congressionally designated area in California, Golden Gate National Recreation Area, is being proposed for designation because potential marbled murrelet habitat within the area is still subject to timber harvest and loss. The National Park Service does not control rights to the standing forest on some of the recreation area. Several other Congressionally designated areas were considered important to recovery of the marbled murrelet because of their location within the range of the species and presence of suitable nesting habitat, but are not proposed because they do not require special management. These include—(1) North Cascades, Olympic, and Mount Rainier National Parks; Willapa National Wildlife Refuge; Mount Saint Helens National Volcanic Monument; Mount Baker, Noisy Diobsud, Glacier Peak, Boulder River, Henry M. Jackson, Alpine Lakes, Clearwater, Norse Peak, Glacial View, Tatoosh, Buckhorn, The Brothers, Mount Skokomish, Wonder Mountain, and Colonel Bob Wilderness Areas in

Washington; (2) Drift Creek, Cummins Creek, Rock Creek, Grassy Knob, Wild Rogue, and Kalmiopsis Wilderness Areas in Oregon; and (3) the Kalmiopsis, Siskiyou, and Trinity Wilderness Areas; Muir Woods National Monument: and Point Reves National Seashore in California. Portions of the Smith River National Recreation Area in California were not included because they did not contain high-quality nesting habitat. External threats in these areas are very limited, management goals are generally adequate to conserve the species, and these areas do not require special management consideration or protection.

Effects of the Proposed Designation

This proposal for designation of critical habitat for the marbled murrelet identifies 33 proposed critical habitat units encompassing approximately 1,800,160 hectares (4,453,200 acres) of Federal and non-Federal lands based on information available in the Interagency Geographic Information System (GIS). Twenty-three proposed critical habitat units include State, county, city, or private lands. See Table 1.

TABLE 1.—PROPOSED TERRESTRIAL CRITICAL HABITAT BY STATE, OWNERSHIP, AND LAND LOCATION

	Hectares	Acres
Washington:		
Federal Lands:		
Congressionally Withdrawn Lands	500	1,200
Late-Successional Reserves	494,100	1,220,900
State Lands	199,580	493,200
Private Lands	1,770	4,400
Oregon:		
Federal Lands:		
Late Successional Reserves	645,740	1,595,600
State Lands	112,890	279,000
County Lands	500	1,200
Private Lands	400	1,000
California (Northern):		
Federal:		
Congressionally Withdrawn Lands	10,310	25,500
Late-Successional Reserves	229,350	566,700
State Lands	70,630	174,600
Private Lands	16,420	40,500
California (Central):		
State Lands	14,620	36,100
County Lands	3,230	8,000
City Lands	440	1,100
Private Lands	1,680	4,200

Some small areas of naturally occurring or human-created unsuitable habitat (i.e., areas that have never been or will likely never be marbled murrelet nesting habitat, such as alpine areas, water bodies, serpentine meadows, airports, roads, buildings, parking lots, etc.) are inside the boundaries of proposed critical habitat units but are not considered critical habitat because

they do not provide constituent elements. Where possible, these areas were not included within the proposed critical habitat boundaries and acreage totals were adjusted to reflect the exclusion of this non-suitable habitat. However, many of these areas are small and could not be physically identified on the GIS maps. Current mapping information does not allow precise

identification of the location of primary constituent elements. The Service is continuing to gather information to refine the boundaries of proposed critical habitat units to eliminate areas that do not contain one or more of the primary constituent elements or will remain non-suitable.

Efforts by Federal agencies to survey for marbled murrelets have been

concentrated in areas of proposed timber sales or limited research locations. A small fraction of the suitable nesting habitat has been surveyed to date, and surveys have not been uniformly spread throughout the range of the species. Therefore, known occupied sites provide only a partial indication of the potential areas used by the species. In addition, there are a significant number of known occupied sites within Redwood National Park that are not currently on the database and are therefore not reported here. The proposed critical habitat includes 665 (93 percent) of the 715 known occupied sites on Federal lands.

The Service does not have specific information about the amount of suitable nesting habitat or habitat containing one or more of the primary constituent elements on non-Federal lands within the species' range, although the Service is aware of at least 264 known occupied sites on non-Federal lands, of which 181 (68 percent) are within proposed critical habitat. The Service continues to seek information and comments about the location of suitable nesting habitat and occupied sites on non-Federal lands.

Available Conservation Measures

Two of the principal purposes of the Act, as stated in section 2(b), are to provide a means to conserve the ecosystems upon which endangered and threatened species depend and to provide a program for the conservation of listed species. The Act mandates the conservation of species through several different mechanisms, such as-sections 7(a)(1) and 7(a)(2) (requiring Federal agencies to further the purposes of the Act by carrying out conservation programs and ensuring that Federal actions will not likely jeopardize the continued existence of the listed species); section 9 (prohibition of taking of listed species); section 10 (habitat conservation plans); and section 6 (cooperative State and Federal grants).

Recovery Planning

Designation of critical habitat would not offer specific direction for managing marbled murrelet nesting or foraging habitat and would not provide a management or conservation plan for the species. Recovery plans typically provide guidance for conservation, which may include population goals and the identification of areas that may need protection or special management. Recovery plans usually include management recommendations for designating critical habitat. The Service continues to work closely with the

Marbled Murrelet Recovery Team relative to critical habitat.

The Act joins the recovery planning and critical habitat processes through its definition of conservation. However, critical habitat does not replace, and cannot be replaced by, recovery planning. Critical habitat will not, in itself, lead to the recovery of the species. Critical habitat provides one of several measures available to contribute toward the conservation of a species.

Recovery planning is an "umbrella" that guides all of these activities and promotes a species' conservation. Recovery plans provide guidance, which may include population goals and identification of areas that are in need of protection or special management. Recovery plans also include management recommendations for areas proposed or designated as critical habitat. Critical habitat promotes recovery by highlighting areas that should be given additional consideration in planning processes. Critical habitat helps focus conservation activities by identifying areas that contain essential habitat features (primary constituent elements) and that require special management or protection. Although the recommendations contained in recovery plans are not legally binding, critical habitat provides a regulatory mechanism when a Federal nexus is present to increase immediate protection of these primary constituent elements and essential areas and preserve options for the long-term conservation of the species.

Section 7 Consultation

Section 7(a)(2) of the Act requires Federal agencies to insure that activities they authorize, fund, or carry out are not likely to destroy or adversely modify designated critical habitat. This Federal responsibility accompanies, and is in addition to, the requirement in section 7(a)(2) of the Act that Federal agencies insure that their actions are not likely to jeopardize the continued existence of any listed species. A Federal agency must consult with the Service if its proposed action may affect a listed species or critical habitat.

Regulations implementing this interagency cooperation provision of the Act are codified at 50 CFR 402.

Destruction or adverse modification of critical habitat is defined as "* * * a direct or indirect alteration that appreciably diminishes the value of critical habitat for both the survival and recovery of a listed species. Such alterations include, but are not limited to, alterations adversely modifying any of those physical or biological features

that were the basis for determining the habitat to be critical." 50 CFR 402.02. Jeopardy is defined at 50 CFR 402.02 as any action that would be expected to reduce appreciably the likelihood of both the survival and recovery of a listed species in the wild.

Survival and recovery, mentioned in the definitions of "adverse modification" and "jeopardy", are directly related. Survival may be viewed as a linear continuum between recovery and extinction of a species. The closer a species is to recovery, the greater the certainty of the species' continued survival. The terms "survival" and "recovery" are related by the degree of certainty that the species will persist during a given period of time. Survival relates to viability. Factors that influence a species' viability include population numbers, distribution throughout its range, vulnerability to chance catastrophic events, and reproductive success.

The definition of critical habitat in the Act indicates that the purpose of critical habitat is to contribute to a species' conservation. The section 7 requirement that Federal agencies insure that their actions do not result in destruction or adverse modification of critical habitat applies to actions that would impair survival and recovery of a listed species. As a result of this connection between critical habitat and recovery, the requirement that Federal agencies insure against destruction or adverse modification of critical habitat enables the critical habitat to contribute to the recovery of the species.

After a proposal of critical habitat, section 7(a)(4) of the Act and implementing regulations (50 CFR 402.10) require Federal agencies to confer with the Service on any action that is likely to result in the destruction or adverse modification of the proposed critical habitat. Conference reports provide advisory conservation recommendations to assist a Federal agency in identifying and resolving conflicts that may be caused by the proposed action.

If an agency requests, and the Service concurs, a formal conference report may be issued. Formal conference reports on proposed critical habitat contain an opinion that is prepared in accordance with 50 CFR 402.14 as if the proposed critical habitat were already designated. Such a formal conference report may be adopted as a biological opinion pursuant to 50 CFR 402.10(d) when critical habitat is finally designated, if no significant information or changes in the action occur that would alter the content of the opinion.

Basis for Analysis

Designation of critical habitat focuses on the primary constituent elements within the designated habitat units and their contribution to the species' survival and recovery. The evaluation of actions that may affect proposed critical habitat for the marbled murrelet would consider the effects of a Federal action on any of the factors that were the basis for determining the habitat to be critical, including the primary constituent elements of potential nest trees, and surrounding forest.

The range of the marbled murrelet has been subdivided by the Recovery Team into six Marbled Murrelet Conservation Zones, as discussed in the Previous Management Efforts section (USFWS 1995). These subdivisions were not based on identification of separate populations of marbled murrelets, but rather on the need for differing recovery actions in portions of the marbled murrelet's range, and the need to maintain well-distributed populations. Marbled murrelets within the conservation zones are likely to interact across zone boundaries at some level.

For a wide-ranging species such as the marbled murrelet, if multiple critical habitat units are designated, each unit would have a local, regional, and rangewide role in contributing to the conservation of the species. The loss of a single unit may not jeopardize the continued existence of the species, but may significantly reduce the ability of critical habitat to contribute to recovery. In some cases the loss of a critical habitat unit could reduce local population levels. This could have a detrimental effect on the stability of the conservation zone, or at the least on that portion of the zone where the loss occurred.

The basis for an adverse modification opinion would be related to adverse impacts on a conservation zone identified in the recovery plan (USFWS 1995). The loss of populations in one or more conservation zone, or even a major part of a conservation zone, could lead to genetic and demographic isolation of parts of the population. Analysis of impacts to individual units must consider the effects to the local area (both the unit and surrounding units), conservation zone, and the overall range of the marbled murrelet in Washington, Oregon, and California.

Examples of Proposed Actions

Section 4(b)(8) of the Act requires, for any proposed or final regulation concerning critical habitat, a brief description and evaluation of those activities (public or private) that may adversely modify such habitat or may be affected by the critical habitat designation. Regulations found at 50 CFR 402.02 define destruction or adverse modification of critical habitat as a direct or indirect alteration that appreciably diminishes the value of critical habitat for both the survival and recovery of a listed species. Such alterations include, but are not limited to, alterations adversely modifying any of those physical or biological features that were the basis for determining the habitat to be critical.

A variety of ongoing or proposed activities may adversely impact the proposed marbled murrelet critical habitat. Examples of such activities include, but are not limited to, forest management, conversion, and roadbuilding that have the following effects on the primary constituent elements:

(1) Removal or degradation of individual nest platforms or trees with a potential nesting platform that results in a significant decrease in the value of the trees for future nesting use. Removal or degradation of support trees adjacent to trees with potential nesting platforms that provide habitat elements essential to the suitability of the potential nest tree or platform, such as trees providing cover from weather or predators.

(2) Removal or degradation of forested areas surrounding and contiguous to potential nest trees with canopy height of at least one-half the site-potential tree height, including removal or degradation of trees currently unsuitable for nesting that contribute to the structure/integrity of the potential nest area (i.e., trees that contribute to the canopy of the forested area). These trees provide the closed canopy and stand conditions important for marbled murrelet nesting.

(3) Removal or degradation of forested areas within critical habitat with canopy height of at least one-half the site-potential tree height, regardless of the presence of potential nest platforms. These forests provide a landscape more conducive to nesting marbled murrelets.

Activities that do not affect the primary constituent elements in the forest are unlikely to be affected by the proposed designation. Such activities would include, but are not limited to, certain recreational use and personaluse commodity production (e.g., noncommercial mushroom picking, Christmas tree cutting, rock collecting, recreational fishing along inland rivers).

Activities conducted according to the standards and guidelines for Late-Successional Reserves, as described in the ROD for the Northwest Forest Plan would, in most cases, be unlikely to

result in the destruction or adverse modification of the proposed marbled murrelet critical habitat. Activities in these areas would be limited to manipulation of young forest stands that are not currently marbled murrelet nesting habitat. Also, these manipulations would be conducted in a manner that would not slow the development of these areas into future nesting habitat, and should speed the development of some characteristics of older forest.

Section 10(a)(1)(B) of the Act authorizes the Service to issue permits for the taking of listed species incidental to otherwise lawful activities. Incidental take permit applications must be supported by a habitat conservation plan (HCP) that identifies conservation measures that the permittee agrees to implement for the species. The issuance of an incidental take permit is a Federal action and is subject to the consultation requirements of section 7 of the Act. The Service expects that HCPs that contribute to the conservation of the murrelet would be consistent with the proposed critical habitat designation.

Several HCP efforts are currently underway in areas proposed for murrelet critical habitat designation, such as State lands in Washington, the Elliott State Forest in Oregon, and Pacific Lumber lands in California. Any lands within critical habitat that are included in an HCP that addresses conservation of the marbled murrelet will be subsequently excluded from critical habitat designation upon approval of the HCP by the Service.

Economic Analysis Summary

Section 4(b)(2) of the Act requires the Service to consider the economic and other relevant impacts of specifying any particular area as critical habitat. The Secretary may exclude areas from critical habitat if he/she determines that the benefits of such exclusion outweigh the benefits of specifying such area as critical habitat, unless failure to designate a specific area would result in extinction of the species. The Service contracted with ECONorthwest, a consulting firm in Eugene, Oregon, to conduct an economic analysis of the potential economic effects of designating critical habitat for the marbled murrelet. As required by the Endangered Species Act, the report addresses only the economic consequences of the proposed critical habitat. It does not address the consequences of listing the species or other actions that have been proposed or taken to protect marbled murrelets.

The proposed designation of critical habitat for the marbled murrelet would

affect the economy via a single mechanism—if the designation becomes final, Federal agencies would have to insure that actions they carry out, authorize or fund would not likely destroy or adversely modify the designated habitat. A critical habitat designation would not affect activities on State, local, or private lands unless there is a Federal permit, license, or funding involved.

The proposed marbled murrelet critical habitat is not separate from the surrounding economy. A critical habitat designation would have multiple effects on the economy, some negative and some positive. The murrelet critical habitat proposal and the requirement that Federal agencies insure that their actions are not likely to destroy or adversely affect the habitat, would have economic consequences for four groups:

(1) It would reduce the amount of certain types of forested habitat available to firms, such as firms in the timber industry, that benefit from conventional logging practices that degrade critical habitat;

(2) It would benefit the households and firms that otherwise incur spillover costs when critical habitat is degraded;

(3) It would benefit those who see critical habitat as an element of the local quality of life; and

(4) It would benefit those who place an intrinsic value on the marbled murrelet, its habitat, and other species supported by the habitat.

To obtain information regarding the potential impact of the proposed designation on the activities of Federal agencies, the Service solicited information directly from the affected agencies. It contacted Federal agencies in western Washington, western Oregon, and northwestern California informing them of the Service's inquiry into the potential impacts of proposed designation. Seven agencies indicated that the designation would not affect their activities. Twenty-two agencies stated that the designation might affect their activities. To these, the Service provided additional information and sent each a questionnaire asking the agency to describe its future activities with and without the proposed designation.

Most agencies that responded to the questionnaire indicated that the designation would have little or no effect on their activities. A number of agencies indicated that, based on information currently available, they could not determine the potential effect. Two agencies, the Oregon State Office of the Bureau of Land Management and Region 6 of the Forest Service concluded that the proposed

designation would cause a reduction in timber harvest on lands they administer. With the designation and in the absence of a specific exception, the Bureau of Land Management and Forest Service would not proceed with logging of approximately 20 million board feet (MMBF) of timber on 10 sold and awarded timber sales in Washington and Oregon.

No single method of analysis can provide a full view of the designation's potential economic consequences and, hence, three different methods were used in the economic analysis. First, a static estimate of the potential impacts on the economy was developed using common analytical tools that embody strong simplifying assumptions regarding the economy's ability to respond and adjust to the designation. Second, these assumptions were relaxed, taking into account the economy's probable long-run adjustment to the designation, and discussed the transition process that would yield the long-run outcome. Third, the designation's potential impacts on national economic welfare were assessed and the issues related to the fairness of the designation were discussed.

Static Estimate of the Economic Consequences

The static analysis presents a worstcase estimate of the proposed designation's potential impact by assuming that critical habitat-related changes in the activities of Federal agencies would occur abruptly and that capital, labor, and other factors of production would be locked in place and unable to respond. Within this framework, it is assumed that, if a designation caused a reduction in the output of a good or service, the capital, labor, and other factors of production associated with the displaced good or service would become permanently unemployed. These assumptions imply that there would be no compensating response by the economy, e.g., it assumes that firms would not tap into alternative markets and displaced workers would not find replacement jobs in response to the reduction in the output of the good or service.

With the information currently available, the impact of designation on all four groups listed above cannot be assessed using only the analytical tools of static analysis. Static analysis alone limits the analysis to impacts on only Group #1, i.e., firms that, in the absence of a designation, would engage in or otherwise benefit from the degradation of critical habitat (e.g., some methods of logging timber from Federal lands). The

static analysis fails to capture the impacts on Groups 2, 3, and 4. Despite its limitations, the static estimate is useful because it presents the worst-case description of the proposed designation's potential impacts, and it sets the stage for the examination of the economy's long-run adjustment to a designation.

Using employment multipliers generated by input-output techniques, the static analysis of the reductions in timber harvest indicates that canceling already sold and awarded timber sales would cause a total reduction of 387 person-years of work. This is a one-time impact that probably would be concentrated in less than 1 year, but might be stretched over a longer period.

All of these reductions would not necessarily occur in the vicinity of the restricted harvests. Because the timber industry is highly competitive over an area encompassing at least western Washington, western Oregon, northern California, the reductions would occur in the least competitive firm(s) within the entire area. These may be hundreds of miles from the sites where timberharvest is reduced. Most of the impact on employment is likely to occur in or near metropolitan areas, reflecting the concentration in these areas of the timber industry, itself, as well as the other sectors that are related to the timber industry.

Long-run Adjustment and the Transition Process

Most workers displaced because of the designation would find replacement jobs quickly as tens of thousands have during the past 15 years. After one year, the unemployment rate among workers who lose their jobs because of the designation probably would equal the rate among other workers with similar education and training.

The proposed designation probably would have positive impacts on the output, employment, and earnings in those industries that otherwise incur spillover costs when critical habitat is degraded. The spillover costs include impacts to fisheries from habitat and population losses; increased risk of flooding; sediment removal and ecosystem repair; water quality reduction; and unemployment insurance costs. By reducing the timber industry's spillover costs, the proposed designation would stimulate other sectors of the economy, though by how much is uncertain.

The proposed designation would probably exert a long-run, positive influence on the natural-resource aspects of the area's quality of life. Hence, the proposed designation would

have a positive impact on all households, firms, and communities sensitive to the quality of these resources. Evidence from studies in Oregon indicate that at least one-third of the population is sensitive to the region's natural-resource amenities.

The marbled murrelet and its habitat have intrinsic value. Given the proposed designation's goal of recovering the marbled murrelet, it is anticipated that the proposed designation would exert a positive influence on this value, though, again, by how much is uncertain.

Overall Economic Effects

Conceptually, at least, one measures the proposed designation's impact on national economic welfare by looking at the difference in the value society ascribes to two bundles of goods and services, one with the proposed designation and the other without it. In this case, the bundle of goods and services affected by the proposed designation has four major components—(1) the marbled murrelet and its habitat; (2) the natural-resource amenities and other elements of the local quality of life; (3) goods and services that would be affected by the proposed designation; and (4) the productivity of workers, households, firms, and communities that would be affected by the proposed designation.

Values ascribed to the marbled murrelet and its habitat commonly are separated into two groups—use values (e.g., consumptive use of the resource as a source of food or medicine, or passive use of the resource as a source of scenic beauty) and non-use values (e.g., benefits a person derives from knowing that a species or some other natural resource exists). Marbled murrelets currently have little apparent use value. They have essentially no value as a source of food to humans. They have some recreational value to birdwatchers, although the magnitude of this value is unknown. Marbled murrelets and their habitat have some non-use value but, again, the magnitude of this value is not currently quantifiable. Hence, the Service would have to rely on judgment to assess the magnitude of the proposed designation's impact on these values.

By reducing logging in certain areas, the proposed designation would increase the quality of life with respect

(1) The visual aesthetics of riparian areas. In general, the aesthetic value of these areas is higher, the more natural their appearance. Insofar as the proposed designation would maintain the natural appearance, it would maintain their amenity value.

(2) The visual aesthetics of some upland areas that otherwise would experience timber harvests. The proposed designation would maintain the amenity values of these areas by maintaining their natural appearance. The aesthetics and water-related recreation associated with streams that experience improvements in water quality, including reductions in sediment, would be enhanced.

(3) The aesthetics and recreational opportunities, e.g., whitewater rafting, associated with changes in the quantity and timing of water runoff so that less runoff occurs as peak flow in the spring and more occurs as base flow during the summer.

(4) The visual aesthetics and recreational opportunities associated with increased populations of wildlife

related to riparian areas.

The proposed designation may have a wide range of effects by preventing activities that would have spillover effects on habitat critical to the recovery of the murrelet and, hence, on the firms and households sensitive to activities inconsistent with the designation. These spillover effects include: $(\check{1})$ impacts on the structure of the local and regional economies, (2) sedimentation, (3) global climate change, (4) future listings of threatened or endangered species, (5) human morbidity and mortality, and (6) impacts on landuse. In general, there is insufficient information to estimate the value of these effects.

Similarly, there is insufficient evidence to support quantification of the effects on the productivity of labor and other factors of production. On balance, the proposed designations overall effect on the nation's productivity could be positive or negative, but the impact probably would be close to zero.

A major issue regarding the economic fairness of the proposed designation is its potential impacts on the value of private property. The proposed designation would have a negative effect on values that depend on Federal agencies engaging in or supporting the degradation of critical habitat. It would have a positive effect on values that otherwise would be depressed by the spillover costs from habitat degradation. It also would have a positive impact on values that depend on the habitat's contribution to the area's quality of life.

In sum, the evidence is insufficient to conclude whether the proposed designation would result in net economic benefits or costs. It does appear likely, however, that the overall net effect is close to zero.

Copies of the complete draft economic analysis are available upon request from

the State Supervisor, U.S. Fish and Wildlife Service, Oregon State Office (see ADDRESSES section).

Summary of Comments and Recommendations on the First Proposal

In the January 27, 1994, proposed rule for designation of marbled murrelet critical habitat, the Service requested all interested parties to submit information and comments concerning the proposal. Additional comments were taken at the public hearing on May 24, 1994, in North Bend, Oregon.

During the public comment period, the Service received 130 written comments. In addition, 25 people testified at the public hearing. All comments received are part of the administrative record and are available for public review. Issues raised during the public comment period that were not addressed in the body of the amended proposal are discussed next.

Issue 1: One commenter suggested that, due to aboriginal influences, only 5 to 38 percent of the land in the Douglas-fir Region was comprised of patches of 200-year-old trees prior to euroamerican settlement, a value different from those listed in the

proposed rule.

Service Response: The little information that exists describing presettlement forests supports the Service's general conclusion that approximately 60 to 70 percent of the forested areas in range of the marbled murrelet in Washington, Oregon, and California contained an old-growth component, major portions of which were distributed in large, contiguous blocks. Human-caused factors have significantly reduced the amount of old-growth forests in the range of the marbled murrelet in Washington, Oregon, and California compared to pre-historic levels (Spies and Franklin 1988; Teensma et al. 1991; Booth 1991; Larsen 1991; Bolsinger and Waddell 1993; Ripple 1994; Perry 1995; Ralph et al. 1995b). The Service believes this material represents the best available scientific information.

Issue 2: Commenters suggested that prey distribution and abundance, rather than inland forest conditions, may dictate murrelet distributions at sea.

Service Response: The Service agrees that prey distribution and abundance is an important ecological factor for murrelets at sea.

However, particularly during the nesting season, marbled murrelets are found in high numbers in close proximity to areas where inland forested conditions are considered suitable for nesting throughout large portions of coastal Washington, Oregon, and

California (Carter and Erickson 1992; Varoujean and Williams 1995; Ralph and Miller 1995; Ralph *et al.* 1995b; Strong *et al.* 1995). Conversely, marine concentrations tend to be low where onshore habitat is limited.

The distribution of marbled murrelets in the marine environment changes after the nesting season. This suggests that proximity to their nesting habitat is important for marbled murrelets during the breeding season even though food may be more abundant elsewhere (Ralph et al. 1995b). However, it could be that changes in prey distribution and abundance occur coincidentally with the end of the nesting season. Marbled murrelets have been documented to use a variety of prey species, which suggests that they are capable of exhibiting flexibility regarding food resources available to them during the nesting season. Therefore, the Service believes that the condition of inland nesting habitat is an important factor explaining distributions in the marine environment during the nesting season.

Issue 3: Commenters suggested that suitable nesting habitat (defined as mature forests with approximately two remnant old-growth trees per acre) is under-used and not a limiting factor for marbled murrelets.

Service Response: There may be localized situations where habitat that is currently suitable for nesting is not currently occupied. The ability of this species to rapidly colonize new areas is unknown, but is likely to be low for several reasons—(1) population numbers are low and scattered in some areas; (2) marbled murrelets have a low reproductive rate, providing few young to serve as colonizers; (3) this species evolved to use nesting habitat that was relatively stable from year-to-year, and may be less adaptive to the loss of nesting areas in a given year (Divoky and Horton 1995); and (4) potentially suitable habitat may be scattered and not necessarily high-quality habitat, both of which may result in a lag time for colonization.

However, the Service continues to believe that nesting habitat is a limiting factor in some areas because of the close association of marbled murrelet nests to older forest habitat, the amount of which has been reduced significantly (See Issue 1). All marbled murrelet nests located as of January 1994 in Washington, Oregon, and California have been associated with forests considered to be older forest or which contain late-successional components (Hamer and Nelson 1995b). In addition, at-sea distributions of marbled murrelets during the nesting season along coastal Oregon and California shorelines

roughly correspond to inland distributions of late-successional forests (See Issue 2).

Issue 4: One commenter disagreed with the use of sites identified as occupied by marbled murrelets under the Pacific Seabird Group protocol as a criteria for critical habitat designation, because the commenter believes that some of the behaviors that resulted in occupied status were not indicative of nesting.

Service Response: The Service used all available information in the selection of areas for proposed designation of critical habitat. Survey information was only one of the criteria considered in selecting areas for proposed critical habitat designation. Survey results (including occupied sites, marbled murrelet presence, and lack of detections) were used as indicators of the presence/absence of marbled murrelets in specific areas. However, survey efforts were minimal in many areas, and coverage of areas was discontinuous. Such information was of limited use in proposing critical habitat in portions of the range.

Issue 5: Several commenters raised issues related to nest predation and predator numbers. These were primarily related to the effects of timber harvest and forest edge on predator numbers and marbled murrelet nest predation rates. The appropriateness of applying nest predation studies from other regions of the country to the Pacific Northwest was also raised.

Service Response: The Service has amended the proposed rule to reflect the comments and to provide additional documentation on statements related to predation. The Service believes, however, that existing data still indicate that nest predation is a significant issue in forest edge, even if the causes are unclear. Nelson and Hamer's (1995b) analysis of nest predation indicates that marbled murrelet nests nearer to forest edges experience significantly higher predation rates than nests in the forest interior. Studies have also been completed or are underway in the Pacific Northwest since the proposed rule that indicate the timber harvest in a forest can increase nest predation rates on forest birds under some circumstances (Vega 1993; Bryant 1994; C. Chambers, pers. comm. 1994). It is recognized, however, that additional research on this subject is needed.

Issue 6: Several commenters recommended that the Service designate all Federal lands before considering designating State or private lands.

Service Response: In proposing murrelet critical habitat, the Service examined all areas, regardless of ownership, that may be essential for the conservation of the species. The Service did propose Federal lands first, however, if in a given area, Federal lands were insufficient to meet the conservation needs of the species, other lands were also proposed.

Issue 7: Several commenters, including the Marbled Murrelet Recovery Team, recommended the inclusion or exclusion of specific areas in the proposed designation of critical habitat. Some commenters recommended including all important marine environments, all potential or recruitment habitat, historic areas, or all suitable habitat in the designation. Several commenters recommended that the Service include additional criteria for identifying critical habitat, including, but not limited to, foraging areas in the marine environment; all occupied habitat; buffer areas; flight corridors; minimum nest limb height; minimum nest stand canopy height; and canopy closure and stand size.

Service Response: All such recommendations were examined carefully. Specific areas were not included in the proposal if they did not meet the Act's criteria for designation as critical habitat, and were added if they met the Act's criteria for designation. The Service based its murrelet critical habitat proposal on the principal biological or physical features that are essential to the conservation of the species and that require special management considerations or protection.

In the marine environment, the Service agrees that maintaining aquatic habitat is essential to the marbled murrelet, and that marine conditions may affect distribution and survival of the species. Addressing anthropogenic sources of mortality and degradation of habitat quality in aquatic habitats will be an important component in recovering marbled murrelet populations. However, the Service does not believe that special management consideration or protection is required in the marine environment beyond those provided by existing Federal laws and regulations, which was discussed in the Previous Management Efforts section. Therefore, the Service did not include areas in the marine environment. Some terrestrial occupied sites were not included because they may not require special management or protection beyond that provided by existing Federal laws and regulations or they were not considered essential to the conservation of the species due to location, site conditions, or history. Therefore, not all areas occupied by the

species were included in this critical habitat proposal.

Marbled murrelets have been observed using flight paths such as river corridors on flights inland, however, marbled murrelets have also been observed flying over ridges, cities, and agricultural areas to access inland areas (T. Hamer pers. comm. 1995). The use of flight corridors has not been shown to be essential for access to inland forested habitat.

Stand and individual tree attribute information (e.g., nest limb height; nest stand canopy height and closure; and size) was unavailable for use in proposing the boundaries of murrelet critical habitat. However, these attributes were considered in the evaluation of the primary constituent elements of murrelet critical habitat.

Issue 8: Several commenters recommended the inclusion of specific management requirements for designated critical habitat.

Service Response: A designation of critical habitat does not establish a management plan and does not impose any specific management requirements on the area designated. Critical habitat is an inventory of habitat and areas that contain the biological features essential to the conservation of the species. Management requirements for critical habitat are addressed through recovery and land management planning processes.

Issue 9: One commenter recommended keeping the public comment period open until the Service had all the information needed to propose critical habitat. Another commenter recommended waiting until the Recovery Plan was complete to designate critical habitat.

Service Response: The Act requires the Service to designate critical habitat to the maximum extent prudent and determinable, at the time of listing. If critical habitat is not determinable at the time a species is listed, the Act allows the Service up to one additional year to designate critical habitat to the maximum extent prudent. The Act and implementing regulations require the Service to employ the best available information in the designation of critical habitat, but a designation must comply with the statutory time frames.

The Act does not impose deadlines for completing recovery plans and does not provide the authority for the Service to delay designation of critical habitat while waiting for a completed recovery plan.

Issue 10: One commenter suggested that the prohibitions of take of listed species under section 9 of the Act protected occupied murrelet sites and

therefore the Service did not need to designate critical habitat.

Service Response: Section 9 of the Act prohibits the take of a listed species. The term "take" is defined in the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct" (16 U.S.C. 1532(19)). A designation of critical habitat and the resulting consultation process for Federal actions under section 7 of the Act address impacts to a species which may not involve take.

Issue 11: One commenter indicated that state laws were sufficient to protect marbled murrelets and therefore critical habitat did not need to be designated.

Service Response: Current state regulations have not prevented habitat loss for the marbled murrelet. Habitat loss is considered to be one of the primary factors that has contributed to the need to list the murrelet in Washington, Oregon, and California.

Issue 12: Several commenters provided information about issues related to the listing of the species (e.g., new population numbers, whether the listed population is distinct, whether listing was premature due to lack of information, and whether the listed population is at the natural edge of the species' range).

Service Response: A proposal to designate critical habitat does not include a review of the listing determination. Comments relevant only to the listing decision were not incorporated in this proposal. Information that was pertinent to critical habitat and the biological information used in the development of the proposal were reviewed and incorporated as appropriate.

Issue 13: Several commenters indicated that an Environmental Impact Statement should be written for a designation of critical habitat.

Service Response: The Service has determined that rules issued pursuant to section 4(a) of the Endangered Species Act do not require preparation of an environmental impact statement under the National Environmental Policy Act. The Service's determination has been upheld by the 9th Circuit Court of Appeals in a decision concerning the critical habitat designation for the northern spotted owl.

Issue 14: Several commenters indicated that designation of non-Federal lands as critical habitat would result in the "taking" of private property.

Service Response: A critical habitat designation affects only actions authorized, funded, or carried out by Federal agencies. It would not result in a taking of private property.

Issue 15: Several commenters expressed concern about the ability to access private lands that lie adjacent to or are surrounded by critical habitat.

Service Response: If murrelet critical habitat is designated, issues concerning access across Federal lands could be resolved through the consultation process under section 7 of the Act.

National Environmental Policy Act

The Service has determined that Environmental Assessments and Environmental Impact Statements, as defined under the authority of the National Environmental Policy Act of 1969, need not be prepared in conjunction with regulations adopted pursuant to section 4(a) of the Endangered Species Act of 1973, as amended. A notice outlining the Service's reasons for this determination was published in the **Federal Register** on October 25, 1983 (48 FR 49244).

Required Determinations

The proposed rule has been reviewed by the Office of Management and Budget under Executive Order 12866. The Department of the Interior has determined that the proposed designation of critical habitat for the marbled murrelet would not have a significant economic effect on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 et seq.). Based on the information discussed in this proposed rule concerning public projects and private activities within critical habitat units, it is not clear whether significant economic impacts would result from the proposed critical habitat designation. Also, no direct costs, enforcement costs, information collection, or recordkeeping requirements would be imposed on small entities by this proposed designation. Further, the proposed rule contains no recordkeeping requirements as defined by the Paperwork Reduction Act of 1980. Finally, the Department has assessed the effects of this rulemaking action on State, local, and Tribal governments, and the private sector pursuant to Title II of the Unfunded Mandates Reform Act of 1995. The Department has determined that this action does not compel the expenditure of \$100 million or more by any State, local or Tribal government, or any individual in the private sector. Therefore, a statement under section 202 of the Unfunded Mandates Reform Act is not required.

Public Comments Solicited

The Service intends that any final action resulting from this amended critical habitat proposal will be as accurate and as effective as possible. Therefore, comments or suggestions from the public, other concerned government agencies, Indian Nations, the scientific community, industry, or any other interested party concerning all aspects of this proposed rule, including the economic analysis, are hereby solicited.

The Service has scheduled five public hearings to facilitate receipt of public comments. The dates and locations of the hearings are provided below. Anyone expecting to make an oral presentation at these hearings is encouraged to provide a written copy of their statement to the hearing officer prior to the start of the hearing. In the event there is a large attendance, the time allotted for oral statements may have to be limited. Oral and written statements receive equal consideration. There are no limits to the length of written comments presented at these hearings or mailed to the Service.

Tuesday, September 5, 1995, from 2:00–4:00 p.m. and 6:00–8:00 p.m., at the Red Lion Hotel Columbia River, 1401 North Hayden Island Drive, Portland, Oregon.

Thursday, September 7, 1995, from 2:00–4:00 p.m. and 6:00–8:00 p.m., at the Red Lion Hotel, 1313 North Bayshore Drive, Coos Bay, Oregon.

Tuesday, September 12, 1995, from 2:00–4:00 p.m. and 6:00–8:00 p.m., at the Eureka Inn, 518 Seventh Street, Eureka. California.

Thursday, September 14, 1995, from 2:00–4:00 and 6:00–8:00 p.m., at the Coconut Grove Conference Center, 400 Beach Street, Santa Cruz, California.

Tuesday, September 19, 1995, from 2:00–4:00 p.m. and 6:00–8:00 p.m., at the Bellevue Conference Center, 121 107th Avenue, Bellevue, Washington.

Comments are particularly sought concerning:

- (1) The reasons why any Federal lands (either proposed critical habitat or additional areas) should or should not be determined to be critical habitat as provided by section 4 of the Act;
- (2) The location and reasons why any non-Federal lands should or should not

- be determined to be critical habitat as provided by section 4 of the Act, including information on whether lands proposed contain the primary constituent elements identified in this amended proposal for the marbled murrelet, potential threats to the marbled murrelet, and the value of areas to the conservation of the species;
- (3) The reasons why any marine areas should or should not be determined to be critical habitat as provided by section 4 of the Act, including information on potential threats, current activities, the effect of current regulatory mechanisms, and benefits to the species;
- (4) Current and planned activities in proposed critical habitat areas and their possible impacts on proposed critical habitat;
- (5) Any threats to the conservation of the marbled murrelet or the maintenance of marbled murrelet nesting habitat on Congressionallyprotected lands within the range of the marbled murrelet;
- (6) Current and planned activities within Congressionally-protected areas that might affect, positively or negatively, the conservation of the marbled murrelet, including any management plans or statutory mandates;
- (7) Other physical and biological features that are essential to the conservation of the species and in need of special management or protection;
- (8) Specific information on the amount, location, and distribution of suitable marbled murrelet nesting habitat; and the numbers and distribution of sites occupied by marbled murrelets on all ownerships and land designations;
- (9) Information concerning health of the ecosystems on which the marbled murrelet depends;
- (10) Information on the economic benefits and costs that would result from the proposed designation of critical habitat for the marbled murrelet, including the segments of the economy that would be affected by the proposed designation;
- (11) Data and information relevant to determining whether the benefits of excluding a particular area from critical habitat outweigh the benefits of specifying the area as critical habitat;

- (12) Analyses useful in evaluating economic and other relevant impacts; and
- (13) Additional information that should be considered in analyzing economic and other impacts of the proposed designation;

References Cited

A compete list of all references cited herein is available upon request from the Field Supervisor, U.S. Fish and Wildlife Service, Portland Field Office, 2600 SE 98th Avenue, Suite 100, Portland, Oregon, 97266; telephone (503) 231–6179.

List of Subjects in 50 CFR Part 17

Endangered and threatened species, Exports, Imports, Reporting and recordkeeping requirements, Transportation.

Proposed Regulation Promulgation

Accordingly, the Service hereby proposes to amend part 17, subchapter B of chapter I, title 50 of the Code of Federal Regulations, as set forth below:

PART 17—[AMENDED]

1. The authority citation for part 17 continues to read as follows:

Authority: 16 U.S.C. 1361–1407; 16 U.S.C. 1531–1544; 16 U.S.C. 4201–4245; Pub. L. 99–625, 100 Stat. 3500; unless otherwise noted.

§ 17.11 [Amended]

- 2. Section 17.11(h) is amended by revising the "Critical habitat" entry for "Murrelet, marbled" under BIRDS to read: 17.95(b).
- 3. Section 17.95(b) is amended by adding critical habitat for the marbled murrelet, in the same alphabetical order as the species occurs in § 17.11(h), as follows.

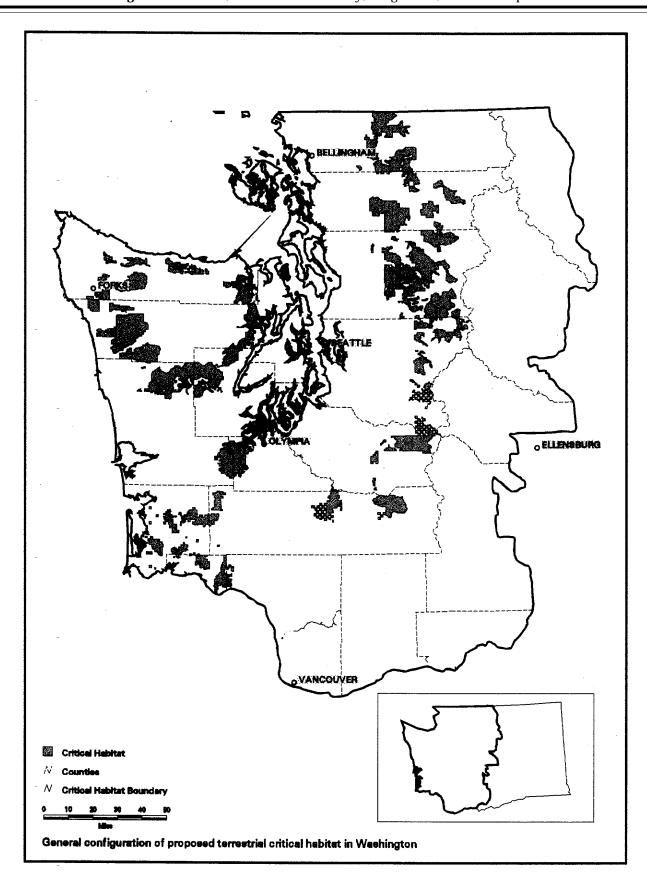
§ 17.95 Critical habitat—fish and wildlife.

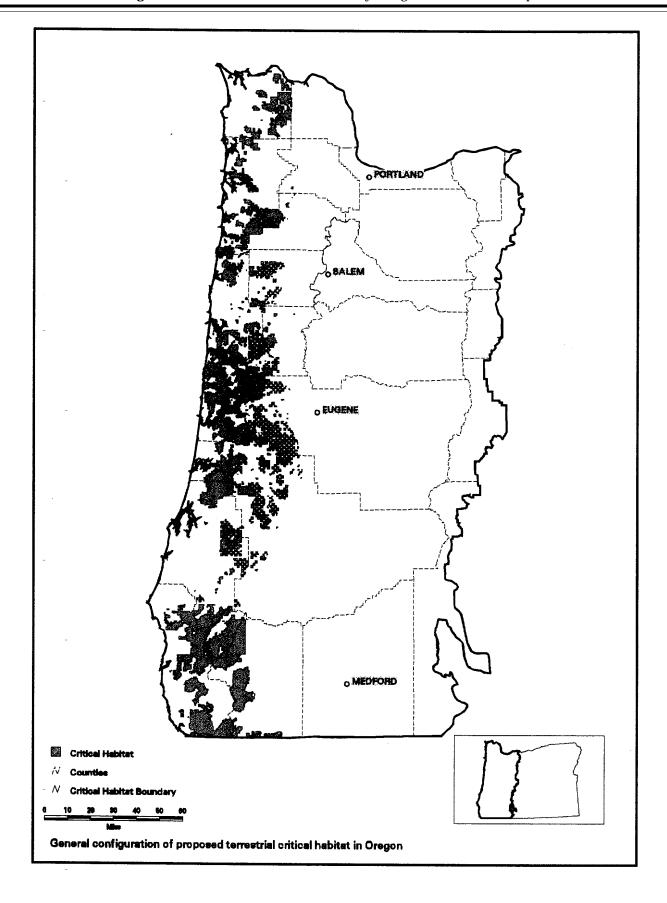
(b) Birds * * * *

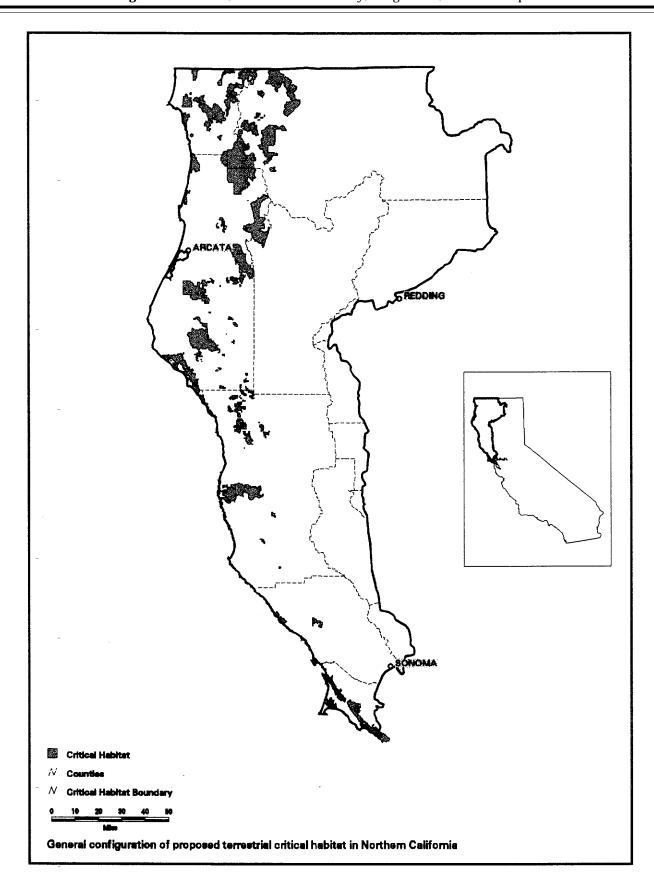
MARBLED MURRELET (Brachyramphus marmoratus):

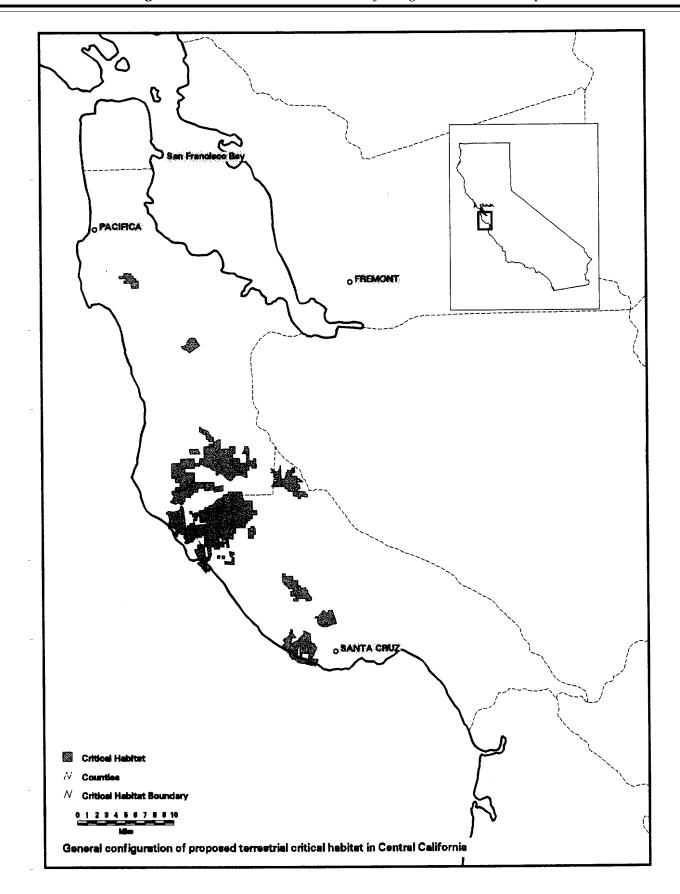
1. Critical habitat units are depicted for the States of Washington, Oregon, and California on the maps below.

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- 2. Non-Federal lands included within critical habitat designated for the marbled murrelet shall be subsequently excluded from such designation by the U.S. Fish and Wildlife Service upon the approval of a Habitat Conservation Plan (HCP) that includes the affected lands and addresses the conservation of the marbled murrelet.
- 3. The primary constituent elements: forest lands that are used or potentially used by the marled murrelet for nesting and roosting.
- 4. A description of the critical habitat units follows.

Map and description of WA-01-a taken from United States Fish and Wildlife Service 1:100;000 map; Cape Flattery, Forks, and Port Angeles, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.28N., R.10W. Willamette Meridian: $W^{1/2}$ W^{1/2} Section 1; Sections 2–6; Section 7 except S^{1/2} S^{1/2}; N^{1/2}, N^{1/2} SW ^{1/4} Section 8; N^{1/2} Section 9; N^{1/2} NW^{1/4}, NE^{1/4} Section 10; N^{1/2} Section 11; E^{1/2} NW^{1/4} Section 12.

 $\begin{array}{c} T.28N.,\,R.11W.\,\,Willamette\,\,Meridian:\\ Sections\,\,1-5;\,\,S^{1/2}\,\,S^{1/2},\,\,NE^{1/4}\,\,SW^{1/4},\,\,N^{1/2}\,\,SE^{1/4},\\ S^{1/2}\,\,NE^{1/4},\,\,NE^{1/4}\,\,NE^{1/4}\,\,Section\,\,6;\,\,Section\,\,7;\\ Sections\,\,8-12;\,\,N^{1/2}\,\,NW^{1/4}\,\,Section\,\,13;\,\,N^{1/2}\,\,N^{1/2},\,\,S^{1/2}\,\,NE^{1/4},\,\,SE^{1/4}\,\,NW^{1/4}\,\,Section\,\,14;\,\,N^{1/2}\,\,NW^{1/4},\,\,SW^{1/4}\,\,NW^{1/4}\,\,Section\,\,15;\,\,N^{1/2}\,\,N^{1/2},\\ SW^{1/4}\,\,NW^{1/4},\,\,SE^{1/4}\,\,NE^{1/4}\,\,Section\,\,16;\,\,NW^{1/4}\,\,NW^{1/4},\,\,SE^{1/4}\,\,NW^{1/4},\,\,NE^{1/4}\,\,NW^{1/4},\,\,NE^{1/4}\,\,NW^{1/4},\,\,NE^{1/4}\,\,Section\,\,17;\,\,N^{1/2}\,\,NE^{1/4},\,\,NE^{1/4}\,\,NW^{1/4}\,\,Section\,\,18 \end{array}$

T.28N., R.12W. Willamette Meridian: SW \(^1/4\) Section 2; S\(^1/2\) S\(^1/2\), NE\(^1/4\) SE\(^1/4\) Section 3; \(N^1/2\) N\(^1/2\) Section 10; \(N^1/2\) Section 11; \(W^1/2\) N\(W^1/4\), E\(^1/2\), SE\(^1/4\) N\(W^1/4\), NE\(^1/4\) S\(W^1/4\) Section 12.

T.29N., R.10W. Willamette Meridian: SW¹/₄ NW¹/₄, SW¹/₄ SE¹/₄, SW¹/₄ Section 1; Section 2 except N¹/₂ NE¹/₄; Sections 3–5; S¹/₂ S¹/₂, NE¹/₄ SE¹/₄, NW¹/₄ SW¹/₄, NE¹/₄ Section 6; Sections 7–24; Section 25 except SE¹/₄ SE¹/₄; Sections 26–35; NW¹/₄, N¹/₂ SW¹/₄, SW¹/₄ SW¹/₄, NE¹/₄ SE¹/₄ Section 36.

T.29N., R.11W. Willamette Meridian: SE¹/₄, SE¹/₄ NE¹/₄ Section 12; Section 13; N¹/₂, N¹/₂ SE¹/₄, SE¹/₄ SE¹/₄, NE¹/₄ SW¹/₄ Section 14; S¹/₂ SE¹/₄, NE¹/₄ Section 22; S¹/₂, E¹/₂ NE¹/₄ Section 23; Sections 24–27; S¹/₂, S¹/₂ NE¹/₄, NE¹/₄ NE¹/₄, SW¹/₄ NW¹/₄ Section 28; E¹/₂ SE¹/₄ Section 29; SE¹/₄ SE¹/₄ Section 31; SW¹/₄ SW¹/₄, SE¹/₄, SE¹/₄, NE¹/₄, NE¹/₄, NE¹/₄ Section 32; Sections 33–36

T.30N., R.09W. Willamette Meridian: SW¹/₄ SW¹/₄ Section 18; NE¹/₄ NW¹/₄ Section

T.30N., R.10W. Willamette Meridian: $E^{1/2}$ SW¹/4, SE¹/4, NE¹/4 Section 1; NW¹/4 SW¹/4, SW¹/4, SW¹/4, SW¹/4, SW¹/4, SW¹/4, SE¹/4 Section 2; Section 3 except NE¹/4; Sections 4–5; S¹/2 Section 6; Sections 7–10; N¹/2, N¹/2 S¹/2, SW¹/4 SW¹/4 Section 11; Section 12; N¹/2, N¹/2 SE¹/4, SE¹/4 SE¹/4 Section 13; NW¹/4 NW¹/4, E¹/2 NE¹/4 Section 14; N¹/2, NE¹/4 SW¹/4,

NW 1 /4 SE 1 /4 Section 15; N 1 /2 Section 16; N 1 /2 Section 17; Section 18 except S 1 /2 SE 1 /4; N 1 /2 NW 1 /4 Section 19; SE 1 /4 SE 1 /4 Section 31; S 1 /2 S 1 /2 Section 32.

T.30N., R.11W. Willamette Meridian: Section 1 except SW½ SE½; Section 2; N½, N½ SE½, SE½ SE½4 Section 3; NE¼, N½ NW½ SE½4, SE¼ SE½4 Section 3; NE¼, N½ NW¼ Section 10; N½ NE¼, NE¼ NW¼, SW¼ SW¼ Section 11; NW¼ NW¼, S½, E½ NE¼ Section 12; Section 13; S½ NW¼, S½, NE¼ Section 14; S½, SE¼ NE¼ Section 15; SE¼ NW¼, S½ Section 17; E½ SE¼ Section 18; NE¼, E½ NW¼ Section 20; N½ SE¼, N½ Section 21; N½, N½ Sy½ Section 22; N½, N½ SW¼ NE¼ NW¼, N½ Section 23; NW¼, NW¼ NE¼, SW¼ NE¼ NE¼ NE¼ NE¼ Section 24.

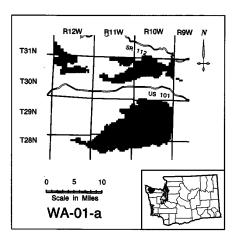
T.30N., R.12W. Willamette Meridian: $W^{1/2}$ Section 3; Section 4–5; $S^{1/2}$, $E^{1/2}$ NE $^{1/4}$, $SW^{1/4}$ NE $^{1/4}$, $S^{1/2}$ NW $^{1/4}$ Section 6; SE $^{1/4}$ NW $^{1/4}$, NI $^{1/2}$ NW $^{1/4}$, NE $^{1/4}$ Section 7; Section 8 except W $^{1/2}$ SW $^{1/4}$; NI $^{1/2}$ NE $^{1/4}$ Section 9; SI $^{1/2}$ Section 10; SI $^{1/2}$ SW $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$, NE $^{1/4}$ Section 11; WI $^{1/2}$ NW $^{1/4}$ Section 13; NW $^{1/4}$, WI $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ Section 14; NI $^{1/2}$ NI $^{1/2}$, SE $^{1/4}$ NE $^{1/4}$ Section 15; Section 17 except SI $^{1/2}$ SI $^{1/2}$, NE $^{1/4}$ SE $^{1/4}$

T.31N.,~R.10W. Willamette Meridian: $S^{1/2}$ $S^{1/2}$ Section 32; $S^{1/2}$ $SW^{1/4},~SW^{1/4}$ $SE^{1/4}$ Section 33.

T.31N., R.12W. Willamette Meridian: $NW^{1/4}$, $SW^{1/4}$, $SE^{1/4}$ Section 30; Section 31 except $S^{1/2}$ $SW^{1/4}$; Section 32 except $NE^{1/4}$; $S^{1/2}$ $SW^{1/4}$ Section 33.

Proposed Critical Habitat includes only State or County lands described within the following areas:

T. 30N. R.12W. Willamette Meridian: $S^{1/2}$ $S^{1/2}$ Section 9; $N^{1/2}$ Section 16.



Map and description of WA-01-b taken from United States Fish and Wildlife Service 1:100;000 map; Port Angeles, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.29N., R.07W. Willamette Meridian: $NW^{1/4} NW^{1/4} Section 1$; $N^{1/2} NE^{1/4} Section 2$.

T.30N., R.07W. Willamette Meridian: SW 1 /4 SE 1 /4 Section 26; Section 29; Section 30 except SE 1 /4 NE 1 /4, N 1 /2 NE 1 /4; Section 31 except S 1 /2 SW 1 /4; W 1 /2 W 1 /2, NE 1 /4 NW 1 /4 Section 32; W 1 /2 NW 1 /4, N 1 /2 SW 1 /4, S 1 /2 NE 1 /4, S 1 /4, S 1 /2 NE 1 /4, S 1 /4, S

NE¹/₄ NE¹/₄ Section 33; NW¹/₄, W¹/₂ NE¹/₄, SE¹/₄ NE¹/₄, NE¹/₄ Section 34; N¹/₂, N¹/₂ S¹/₂, S¹/₂ SE¹/₄, SE¹/₄ SW¹/₄ Section 35; Section 36.

T.30N., R.08W. Willamette Meridian: $S^{1/2}$ $S^{1/2}$ except $SW^{1/4}$ $SW^{1/4}$ Section 20; $S^{1/2}$ $SW^{1/4}$ Section 21; Section 25; Section 26 except $NW^{1/4}$ $NE^{1/4}$; Section 27; Section 28; Section 29; $N^{1/2}$ $N^{1/2}$, $SE^{1/4}$ $NE^{1/4}$ Section 33; $N^{1/2}$, $N^{1/2}$ SE $^{1/4}$ Section 34; $N^{1/2}$, $NW^{1/4}$ $SW^{1/4}$ Section 35; $N^{1/2}$ Section 36.

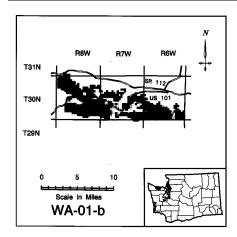
Proposed Critical Habitat includes only State or County lands described within the following areas:

T.30N., R.06W. Willamette Meridian: NW¹/4 SW¹/4 Section 18; N¹/2 NW¹/4, S¹/2 Section 19; S¹/2 SW¹/4 Section 20; SW¹/4 SW¹/4, NE¹/4 SW¹/4 Section 21; SE¹/4 SE¹/4 Section 23; NW¹/4 NW¹/4, W¹/2 SW¹/4, SE¹/4 Section 23; NW¹/4 NW¹/4, W¹/2 SW¹/4, SE¹/4 SW¹/4, SE¹/4 Section 25; NE¹/4, E¹/2 SE¹/4, SW¹/4, SE¹/4 Section 26; SW¹/4, NW¹/4 SE¹/4, S¹/2 SE¹/4, SE¹/4 NW¹/4 Section 27; Section 28 except SE¹/4 SW¹/4, NE¹/4 NE¹/4; Section 29; Section 30 except S¹/2 SW¹/4; Sections 31–34; E¹/2 E¹/2 Section 35; Section 36.

T.30N., R.07W. Willamette Meridian: SE1/4 SE1/4 Section 9; S1/2 SW1/4 Section 10; S1/2 S1/2, N1/2 SE1/4 Section 13; SE1/4, SE1/4 NE1/4, SE1/4 SW1/4 Section 14; SE1/4 SE1/4, SW1/4 NW1/4, NE1/4 NW1/4 Section 15; Section 16 except N1/2 NE1/4, W1/2 NW1/4, NE1/4 SE1/4; S¹/₂, S¹/₂ N¹/₂, NW¹/₄ NE¹/₄ Section 17; NW¹/₄ NW¹/₄, S¹/₂, NE¹/₄ NE¹/₄, S¹/₂ NE¹/₄ Section 18: SW1/4, SW1/4 NE1/4, S1/2 NW1/4, NW1/4 NW1/4 Section 19; SW1/4, SW1/4 SE1/4, E1/2 NE1/4 Section 20; NW1/4, SW1/4 SW1/4, NW1/4 NE1/4 Section 21; S1/2 SW1/4, E1/2 E1/2 Section 22; $S^{1/2}$ $NW^{1/4}$, $N^{1/2}$ $SW^{1/4}$, $SE^{1/4}$ $SE^{1/4}$, $W^{1/2}$ $NE^{1/4}$, NE¹/₄ NE¹/₄, NE¹/₄ NW¹/₄ Section 23; N¹/₂, $NW^{1/4} SW^{1/4}$, $N^{1/2} SE^{1/4}$, $SE^{1/4} SE^{1/4} Section$ 24; S1/2 NW1/4, NE1/4, Section 25; N1/2, NW1/4 SE1/4 Section 27.

T.30N., R.08W. Willamette Meridian: S1/2 SW1/4 Section 4; Section 5 except E1/2 NE1/4; Section 6 except NW1/4 NW1/4; Section 7 except S1/2 SW1/4; Section 8; Section 9 except NW¹/₄ NE¹/₄: SW¹/₄ SW¹/₄. SE¹/₄ Section 10: Section 11 except NW1/4, N1/2 NE1/4, NE1/4 NW¹/₄; N¹/₂ S¹/₂, SW¹/₄ NW¹/₄, S¹/₂ NE¹/₄, SE1/4 SE1/4 Section 12; NW1/4 NW1/4, NE1/4 NE1/4, SE1/4 SE1/4, S1/2 SW1/4, NW1/4 SW1/4 Section 13; Section 14; NW1/4, SW1/4, NE1/4 Section 15; Section 16; SE¹/₄ NW¹/₄, N¹/₂ NW1/4, NE1/4 Section 17; N1/2 NE1/4, SW1/4 NE1/4, NE1/4 NW1/4 Section 20; NE1/4 NE1/4 Section 21; N1/2 NW1/4, SE1/4 NW1/4, W1/2 SE1/4, SW1/4 SE1/4, NE1/4 Section 22; NW1/4, SW1/4, SE1/4, SW1/4 NE1/4 Section 23; S1/2, S1/2 N1/2, N1/2 NE1/4 Section 24; NW1/4 NE1/4 Section 26.

T.31N., R.08W. Willamette Meridian: $W^{1/2}$ SE¹/₄ Section 31; $W^{1/2}$ SW¹/₄, S¹/₂ SE¹/₄ Section 32.



Map and description of WA-02-a taken from United States Fish and Wildlife Service 1:100;000 map; Cape Flattery and Forks, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.28N., R.12W. Willamette Meridian: S½, S½ NW¼, SW¼ NE¼ Section 4; S½, S½ N½ NE¼ Section 5; Section 6 except NE¼ NE¼; Sections 7–9; Sections 16–21; Sections 28–33.

 $\label{eq:total_continuous_substitute} T.29N., R.12W. Willamette Meridian: S^{1}_{2} Section 7; S^{1}_{2} SW^{1}_{4}$, SW^{1}_{4} SE^{1}_{4}$ Section 8; NW^{1}_{4}, NW^{1}_{4} SW^{1}_{4}$, NW^{1}_{4} Section 16; Section 17 except SE^{1}_{4} SE^{1}_{4}; Section 18; Section 19 except SE^{1}_{4} SE^{1}_{4}; NW^{1}_{4}, N^{1}_{2} SW^{1}_{4} SW^{1}_{4} Section 20; W^{1}_{2} W^{1}_{2}$, NE^{1}_{4} NW^{1}_{4}, NE^{1}_{4} SW^{1}_{4} Section 30.}$

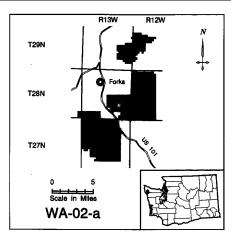
T.29N., R.13W. Willamette Meridian: $S^{1/2}$ $S^{1/2}$, $NE^{1/4}$ $NE^{1/4}$ Section 13; Section 23 except $SW^{1/4}$ $SW^{1/4}$; Sections 24-25; $N^{1/2}$, $N^{1/2}$ $SW^{1/4}$, $N^{1/2}$ $SE^{1/4}$ $SE^{1/4}$ Section 26, $N^{1/2}$ $N^{1/2}$ Section 36.

Proposed Critical Habitat includes only State or County lands described within the following areas:

 $\begin{array}{c} T.27N., R.13W. \ Willamette \ Meridian: \ W^{1/2} \\ NW^{1/4}, \ SE^{1/4} \ NW^{1/4}, \ SW^{1/4} \ Section \ 2; \ Sections \ 3-10; \ W^{1/2}, \ W^{1/2} \ SE^{1/4}, \ W^{1/2} \ NE^{1/4} \ Section \ 11; \\ W^{1/2}, \ W^{1/2} \ SE^{1/4}, \ W^{1/2} \ SE^{1/4}, \ SE^{1/4} \ Section \ 14; \\ Sections \ 15-18; \ NW^{1/4} \ SE^{1/4}, \ NE^{1/4} \ SW^{1/4}, \\ N^{1/2} \ Section \ 19; \ Sections \ 20-22; \ W^{1/2}, \ W^{1/2} \ SE^{1/4}, \ W^{1/2} \ NE^{1/4} \ Section \ 23; \ W^{1/2}, \ W^{1/2} \ SE^{1/4}, \\ W^{1/2} \ NE^{1/4} \ Section \ 26; \ Sections \ 27-28; \ N^{1/2}, \\ E^{1/2} \ SE^{1/4}, \ SW^{1/4} \ SE^{1/4} \ Section \ 29. \end{array}$

 $\begin{array}{c} T.28N.,\,R.13W.\,\,Willamette\,\,Meridian:\\ Sections\,\,22-25;\,\,W^{1/2}\,\,NW^{1/4},\,\,E^{1/2}\,\,NE^{1/4},\,\,S^{1/2}\\ Section\,\,26;\,\,NW^{1/4},\,\,E^{1/2}\,\,Section\,\,27;\,Sections\\ 31-32;\,\,W^{1/2}\,\,W^{1/2}\,\,Section\,\,33;\,\,NW^{1/4}\,\,NE^{1/4}\\ Section\,\,34;\,\,E^{1/2}\,\,E^{1/2},\,\,W^{1/2}\,\,SE^{1/4}\,\,Section\,\,35;\\ Section\,\,36. \end{array}$

T.28N., R.14W. Willamette Meridian: $E^{1/2}$ Section 36.



Map and description of WA-02-b taken from United States Fish and Wildlife Service 1:100;000 map; Forks and Mt Olympus, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.25N., R.10W. Willamette Meridian: Sections 29–30; Section 31 except SE $^{1/4}$ SE $^{1/4}$; N $^{1/2}$ NW $^{1/4}$, SW $^{1/4}$ NW $^{1/4}$ Section 32.

Proposed Critical Habitat includes only State or County lands described within the following areas:

 $\begin{array}{c} T.24N.,\ R.11W.\ Willamette\ Meridian:\ N^{1}\!\!/_{2} \\ N^{1}\!\!/_{2}\ Section\ 1;\ N^{1}\!\!/_{2},\ N^{1}\!\!/_{2}\ SW^{1}\!\!/_{4}\ Section\ 2;\\ Sections\ 3-8;\ Section\ 9\ except\ SE^{1}\!\!/_{4};\ N^{1}\!\!/_{2} \\ NW^{1}\!\!/_{4}\ Section\ 10;\ NW^{1}\!\!/_{4}\ Section\ 16;\ NW^{1}\!\!/_{4},\\ NW^{1}\!\!/_{4}\ NW^{1}\!\!/_{4}\ Section\ 16;\ NW^{1}\!\!/_{4},\\ NW^{1}\!\!/_{4}\ NW^{1}\!\!/_{4}\ SW^{1}\!\!/_{4}\ Section\ 17;\ Section\ 18\ except\ SE^{1}\!\!/_{4}\ SE^{1}\!\!/_{4};\ NW^{1}\!\!/_{4}\ NW^{1}\!\!/_{4}\ Section\ 19.\\ \end{array}$

 $\begin{array}{c} T.24N.,\ R.12W.\ Willamette\ Meridian:\ S^{1/2}\\ NW^{1/4},\ SW^{1/4},\ S^{1/2}\ SE^{1/4},\ NW^{1/4}\ NW^{1/4},\ SW^{1/4}\\ NE^{1/4},\ NW^{1/4}\ SE^{1/4}\ Section\ 1;\ SE^{1/4},\ E^{1/2}\ NE^{1/4}\\ Section\ 10;\ Section\ 11;\ Section\ 12\ except\\ NE^{1/4}\ SE^{1/4};\ NW^{1/4},\ SW^{1/4},\ N^{1/2}\ NE^{1/4},\ SW^{1/4}\\ NE^{1/4}\ Section\ 13;\ N^{1/2},\ S^{1/2}\ SE^{1/4},\ NE^{1/4}\ SE^{1/4}\\ Section\ 14;\ NE^{1/4}\ NW^{1/4},\ NE^{1/4},\ N^{1/2}\ SE^{1/4}\\ Section\ 23;\ N^{1/2},\ N^{1/2}\ SW^{1/4}\ Section\ 24. \end{array}$

 $\begin{array}{c} T.25N.,\,R.10W.\,\,Willamette\,\,Meridian:\\ Sections\,\,1–11;\,\,NW^{1}\!\!/_4,\,\,NE^{1}\!\!/_4\,\,SW^{1}\!\!/_4\,\,Section\\ 14;\,\,Section\,\,15\,\,except\,\,SE^{1}\!\!/_4\,\,SW^{1}\!\!/_4,\,\,S^{1}\!\!/_2\,\,SE^{1}\!\!/_4;\\ Sections\,\,16–20;\,\,NW^{1}\!\!/_4,\,\,N^{1}\!\!/_2\,\,NE^{1}\!\!/_4,\,\,SW^{1}\!\!/_4\\ NE^{1}\!\!/_4\,\,Section\,\,21. \end{array}$

T.25N., R.11W. Willamette Meridian: Section 1–18; Section 19 except SW½ SE½; Section 20 except NE½ NW½; Sections 21–36

T.25N., R.12W. Willamette Meridian: Section 1 except N1/2 N1/2, SE1/4 NE1/4, NE1/4 SE½; Section 2 except E½ NE½; Section 3 except NE1/4 NW1/4; E1/2 E1/2 Section 4; SE1/4 Section 5; SE¹/₄ SW¹/₄ Section 6; Section 7; N¹/₂ Section 8; Section 9; Section 10 except NE¹/₄ NE¹/₄; SE¹/₄ NW¹/₄, S¹/₂ Section 11; Section 12; Section 13 except S¹/₂ SW¹/₄; W¹/₂ W¹/₂, E¹/₂ Section 14; Sections 15–16; W¹/₂ NW1/4, S1/2 S1/2, NW1/4 SW1/4, NE1/4 SE1/4 Section 17; Section 18; N¹/₂ NE¹/₄, SW¹/₄ NE¹/₄, E¹/₂ NE¹/₄ Section 19; N¹/₂ N¹/₂ Section 20; N1/2 N1/2 Section 21; N1/2 N1/2 Section 22; NW1/4 NW1/4 Section 23; E1/2 SW1/4, NE1/4 NW¹/₄, NE¹/₄ Section 24; Section 25 except NW¹/₄ NW¹/₄; Section 26 except S¹/₂, S¹/₂

 $NE^{1/4}$; Section 35 except $W^{1/2}$ $W^{1/2}$, Section 36.

T.25N., R.13W. Willamette Meridian: Section 1 except N¹/₂ N¹/₂, SW¹/₄ NE¹/₄, NE¹/₄ SE¹/₄; S¹/₂, S¹/₂ NE¹/₄ Section 2; NE¹/₄ NW¹/₄, S¹/₂ S¹/₂, N¹/₂ NE¹/₄, SE¹/₄ NE¹/₄ Section 11; Section 12; Section 13 except SW¹/₄ SW¹/₄; Section 14; N¹/₂ NW¹/₄ Section 23; NE¹/₄ NW¹/₄ Section 24.

 $T.26N.,\,R.09W.$ Willamette Meridian: S½ NW½, SW¼, SW¼, NE¼ Section 19; Sections 30–31.

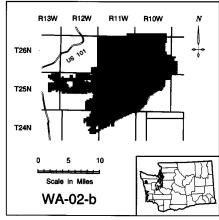
T.26N., R.10W. Willamette Meridian: $W^{1/2}$ $W^{1/2}$ Section 1; Sections 2–11; $W^{1/2}$ SW $^{1/4}$ Section 13; Sections 14–36.

T.26N., R.11W. Willamette Meridian: Sections 1–5; NW 1 /4 NW 1 /4 Section 6; Sections 7–36.

T.26N., R.12W. Willamette Meridian: $S^{1/2}$ SE^{1/4} Section 33; SW^{1/4} SW^{1/4}, S^{1/2} SE^{1/4} Section 34; S^{1/2} SW^{1/4}, SW^{1/4} SE^{1/4} Section 35; Section 36.

T.27N., R.10W. Willamette Meridian: $S\frac{1}{2}$ Section 31; $S\frac{1}{2}$ Section 32; $S\frac{1}{2}$ Section 33; $S\frac{1}{2}$ Section 34; $S\frac{1}{2}$ Section 35.

T.27N., R.11W. Willamette Meridian: $SE^{1/4}$ Section 35; $S^{1/2}$ Section 36.



Map and description of WA-02-c taken from United States Fish and Wildlife Service 1:100;000 map; Forks and Mt Olympus, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $\begin{array}{c} T.23N., \, R.10W. \, Willamette \, Meridian: \, N^{1\!/2} \\ Section \, 1; \, N^{1\!/2}, \, N^{1\!/2}, \, SE^{1\!/4}, \, NE^{1\!/4} \, Section \, 2; \, S^{1\!/2} \\ NW^{1\!/4}, \, NE^{1\!/4}, \, NW^{1\!/4}, \, NE^{1\!/4} \, Section \, 15; \, N^{1\!/2} \\ SE^{1\!/4}, \, SE^{1\!/4}, \, NW^{1\!/4}, \, S^{1\!/2}, \, NE^{1\!/4} \, Section \, 16. \end{array}$

 $\begin{array}{c} T.24N.,\ R.09W.\ Willamette\ Meridian:\ W^{1\!/}_2,\\ SE^{1\!/}_4,\ W^{1\!/}_2\ NE^{1\!/}_4\ Section\ 3;\ Sections\ 4-9;\\ Section\ 10\ except\ E^{1\!/}_2\ SE^{1\!/}_4;\ Section\ 15\\ except\ E^{1\!/}_2\ NE^{1\!/}_4,\ S^{1\!/}_2\ SE^{1\!/}_4,\ NE^{1\!/}_4\ SE^{1\!/}_4;\\ Sections\ 16-21;\ Sections\ 28-33. \end{array}$

T.24 1 2N., R.09W. Willamette Meridian: Section 31 except NE½ NE½; Section 32 except NE½ NE½, NW¼ NW¼; Section 33 except N½ N½; SW¼, SW¼ SE¼ Section 34.

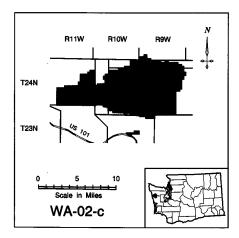
 $\begin{array}{c} T.24N.,\ R.10W.\ Willamette\ Meridian: \\ Sections\ 1-4;\ Section\ 5\ except\ NW^{1}_{4}\ NW^{1}_{4}; \\ Section\ 6\ except\ N^{1}_{2}\ N^{1}_{2};\ Sections\ 7-30; \\ N^{1}_{2},\ N^{1}_{2}\ SE^{1}_{4}\ Section\ 31;\ N^{1}_{2},\ N^{1}_{2}\ S^{1}_{2} \\ Section\ 32;\ N^{1}_{2},\ N^{1}_{2}\ S^{1}_{2},\ SE^{1}_{4}\ SE^{1}_{4},\ SE^{1}_{4} \\ SW^{1}_{4}\ Section\ 33;\ Sections\ 34-36. \end{array}$

T.24 $\frac{1}{2}$ N., R.10W. Willamette Meridian: S $\frac{1}{2}$ S $\frac{1}{2}$, E $\frac{1}{2}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 33; Sections 34–36.

T.25N., R.09W. Willamette Meridian: $S^{1/2}$, $S^{1/2}$ NE¹/4 Section 31; $S^{1/2}$ SW¹/4 Section 32.

Proposed Critical Habitat includes only State or County lands described within the following areas:

 $T.24N.,\,R.11W.$ Willamette Meridian: $S^{1/2}$ SW^{1/4}, NE^{1/4} SW^{1/4}, Mr. Speaker, SE^{1/4} Section 12; Section 13; Section 14; S^{1/2} S^{1/2} Section 20; S^{1/2} Section 21; E^{1/2} NE^{1/4}, S^{1/2} Section 22; Sections 23–29; Sections 32–36.



Map and description of WA-02-d taken from United States Fish and Wildlife Service 1:100;000 map; Forks, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

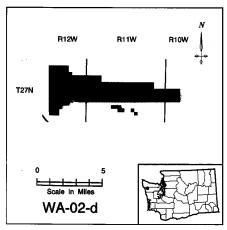
T.27N., R.11W. Willamette Meridian: NE $^{1/4}$ SW $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$ Section 27; S $^{1/2}$ NW $^{1/4}$, NW $^{1/4}$ SE $^{1/4}$, NE $^{1/4}$ Section 28; SE $^{1/4}$ NE $^{1/4}$ Section 29.

Proposed Critical Habitat includes only State or County lands described within the following areas:

T.27N., R.10W. Willamette Meridian: Section 19.

T.27N., R.11W. Willamette Meridian: S½ Section 14; S½ Section 15; S½ Section 16; S½ Section 17; Section 18–24.

T.27N., R.12W. Willamette Meridian: $S^{1/2}$ $N^{1/2}$, $S^{1/2}$ Section 10; $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$, $S^{1/2}$ $NW^{1/4}$ Section 11; Sections 13–15; Section 22; Section 23 except $S^{1/2}$ $SE^{1/4}$, $NE^{1/4}$ $NE^{1/4}$; Section 24; $N^{1/2}$ $NE^{1/4}$ Section 25; $N^{1/2}$ $NW^{1/4}$ Section 26; Section 27 except $E^{1/2}$ $SE^{1/4}$.



Map and description of WA-03-a taken from United States Fish and Wildlife Service 1:100;000 map; Mt. Olympus and Shelton, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.21N., R.07W. Willamette Meridian: SE $^{1}\!\!/_4$ SE $^{1}\!\!/_4$, NW $^{1}\!\!/_4$ SE $^{1}\!\!/_4$, SW $^{1}\!\!/_4$ NE $^{1}\!\!/_4$, NE $^{1}\!\!/_4$ NW $^{1}\!\!/_4$ Section 3.

T.21N., R.08W. Willamette Meridian: NW 1 /4 NW 1 /4 Section 3; Sections 4–9; N 1 /2, N 1 /2 SW 1 /4, SE 1 /4 SW 1 /4, NW 1 /4 SE 1 /4, Section 16; Section 17 except S 1 /2 S 1 /2; Section 18 except S 1 /2 S 1 /2.

T.21N., R.09W. Willamette Meridian: Section 1; Section 2 except N¹/₂ NW¹/₄; Section 3 except SE¹/₄, SE¹/₄ NE¹/₄; NW¹/₄, E¹/₂ NE¹/₄, S¹/₂ NW¹/₄, SE¹/₄ NE¹/₄ Section 4; E¹/₂ E¹/₂, NW¹/₄ NW¹/₄ Section 5; E¹/₂ NW¹/₄, NE¹/₄ Section 6.

T.22N., R.07W. Willamette Meridian: SW1/4 SW1/4, N1/2, N1/2 S1/2 Section 1; N1/2 NE1/4, SE1/4 NE1/4 Section 2; E1/2 W1/2, SW1/4 NE¹/₄, NW¹/₄ NW¹/₄ Section 3; W¹/₂, NW¹/₄ SE¹/₄, SW¹/₄ NE¹/₄, N¹/₂ NE¹/₄ Section 4; Section 5 except SW1/4 SE1/4; S1/2 SW1/4, SE1/4, S1/2 NE1/4, NE1/4 NE1/4, NW1/4 SW1/4 Section 6; NE¹/₄ NW¹/₄, N¹/₂ NE¹/₄ Section 7; $NW^{1/4}$ $NE^{1/4}$, $NE^{1/4}$ $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$, $E^{1/2}$ SE1/4 Section 8; N1/2 NW1/4, SW1/4 NW1/4, S1/2 SE1/4, NE1/4 SE1/4 Section 9; W1/2, W1/2 SE1/4 Section 10; E¹/₂ NE¹/₄ Section 11; NW¹/₄ NW1/4, S1/2 NW1/4, W1/2, SE1/4, N1/2 SW1/4, SE1/4 SW1/4 Section 12; SE1/4 SW1/4, N1/2 SE¹/₄, SW¹/₄ SE¹/₄, NW¹/₄ NE¹/₄, SE¹/₄ NE¹/₄ Section 13; SW1/4 NW1/4, SW1/4 SE1/4, SW1/4 Section 14; N¹/₂ N¹/₂, SW¹/₄ NW¹/₄, SW¹/₄, S¹/₂ $SE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$ Section 15; Section 16 except SW1/4 NW1/4, N1/2 NW1/4; E1/2 SW1/4, NW¹/₄ NE¹/₄ Section 17; NE¹/₄ SW¹/₄, SW¹/₄ SW1/4 Section 18; NW1/4 SE1/4, N1/2 NW1/4, SW1/4, SW1/4 NW1/4, SE1/4 NE1/4 Section 19; N¹/₂ NW¹/₄, SE¹/₄ NW¹/₄, SW¹/₄, S¹/₂ NE¹/₄, E1/2 SE1/4, NE1/4 NE1/4 Section 20; N1/2, E1/2 SW1/4, W1/2 SE1/4, NE1/4 SE1/4 Section 21; N1/2 Section 22; N¹/₂ NW¹/₄, SW¹/₄ SE¹/₄, SW¹/₄ NW¹/₄, SE¹/₄ SW¹/₄, N¹/₂ SE¹/₄, SE¹/₄ NE¹/₄ Section 23; NW1/4 NW1/4 Section 24; N1/2 NW¹/₄, SW¹/₄ NW¹/₄ Section 26; SE¹/₄ NW¹/₄, E¹/₂ SW¹/₄, S¹/₂ NE¹/₄, SW¹/₄ SW¹/₄ , NE¹/₄ NE1/4 Section 27; NE1/4 NW1/4 Section 28; E1/2 NW¹/₄, W¹/₂ NE¹/₄, NE¹/₄ NE¹/₄, W¹/₂ SW¹/₄ Section 29; SE1/4 SE1/4 Section 30; N1/2, N1/2

 $SW^{1/4}$, $SW^{1/4}$ $SW^{1/4}$, $NW^{1/4}$ $SE^{1/4}$ Section 31; $E^{1/2}$ $W^{1/2}$, $W^{1/2}$ $SW^{1/4}$ Section 34.

T.22N., R.08W. Willamette Meridian: $W^{1/2}$ $NW^{1/4}$, $NW^{1/4}$ $NE^{1/4}$, $SW^{1/4}$ Section 2; Section 3–9; $W^{1/2}$, $NE^{1/4}$ $NE^{1/4}$, $W^{1/2}$ $NE^{1/4}$ Section 10; $E^{1/2}$ $SW^{1/4}$, $SE^{1/4}$, $S^{1/2}$ $NE^{1/4}$ Section 11; $W^{1/2}$ $SW^{1/4}$, $SW^{1/4}$, $NW^{1/4}$ Section 12; $SE^{1/4}$ Section 13; $N^{1/2}$ $NE^{1/4}$ Section 14; Section 15 except $E^{1/2}$ $NE^{1/4}$, $SE^{1/4}$ $SE^{1/4}$; Sections 16–21; Section 22 except $E^{1/2}$ $E^{1/2}$, $SW^{1/4}$ $NE^{1/4}$; $NE^{1/4}$ $SE^{1/4}$, $N^{1/2}$ $NE^{1/4}$, $NE^{1/4}$ Section 24; Section 27 except $SE^{1/4}$ $SE^{1/4}$; Sections 28–33; $N^{1/2}$ $NW^{1/4}$, $S^{1/2}$ $SE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$, $NW^{1/4}$ $NE^{1/4}$, $SW^{1/4}$ SW^{1

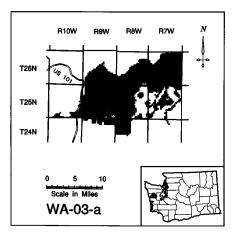
T.22N., R.09W. Willamette Meridian: Sections 1–5; $E^{1/2}$ Section 6; $E^{1/2}$ Section 7; Sections 8–25; Section 26 except $SW^{1/4}$; Section 27 except $SW^{1/4}$ $NW^{1/4}$, $W^{1/2}$ $SW^{1/4}$; Sections 28–33; Section 34 except $NW^{1/4}$ $NW^{1/4}$, $NE^{1/4}$ $SE^{1/4}$; $E^{1/2}$, $E^{1/2}$ $SW^{1/4}$, $SE^{1/4}$ $NW^{1/4}$, $NW^{1/4}$ $NW^{1/4}$ Section 35.

T.22N., R.10W. Willamette Meridian: $E^{1/2}$ SE $^{1/4}$ Section 13; SE $^{1/4}$ SW $^{1/4}$, SE $^{1/4}$, NW $^{1/4}$ NE $^{1/4}$ Section 24; SE $^{1/4}$ SW $^{1/4}$, SE $^{1/4}$, S $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ NE $^{1/4}$ Section 25; SE $^{1/4}$ SE $^{1/4}$ Section 31; S $^{1/2}$, SV $^{1/2}$ NE $^{1/4}$, SE $^{1/4}$ NW $^{1/4}$ Section 32; S $^{1/2}$ SW $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$, NW $^{1/4}$ NW $^{1/4}$ Section 33; SE $^{1/4}$ SE $^{1/4}$, NE $^{1/4}$ NE $^{1/4}$ Section 34; Section 35 except S $^{1/2}$ SW $^{1/4}$; Section 36.

T.23N., R.07W. Willamette Meridian: Sections 1–2; Section 3 except NE¹/4 NE¹/4, NW¹/4 NW¹/4; E¹/2 SW¹/4, SE¹/4, S¹/2 NE¹/4 Section 4; SW¹/4 Section 7; NE¹/4 SE¹/4, S¹/2 SW¹/4 Section 8; Section 9 except NW¹/4 NW¹/4; Sections 10–16; Section 17 except NW¹/4 NW¹/4; Section 18 except NE¹/4 NE¹/4; Sections 19–30; N¹/2, NW¹/4 SW¹/4, N¹/2 SE¹/4, SE¹/4 SE¹/4 Section 31; Section 32–33; Section 34 except S¹/2 SE¹/4; Sections 35–36.

T.23N., R.08W. Willamette Meridian: NE 1 4 SW 1 4, S 1 2 NE 1 4, SE 1 4 Section 11; Section 12 except N 1 2 N 1 2; Section 13–14; S 1 2, S 1 2 NE 1 4 Section 15; SE 1 4 SE 1 4 Section 16; E 1 2 SW 1 4, SW 1 4 SW 1 4, SE 1 4, SE 1 4, NE 1 4, NE 1 4 NE 1 4 Section 21; Sections 22–29; S 1 2, S 1 2 NW 1 4, NW 1 4 NW 1 4 Section 30; Sections 31–35; N 1 2 Section 36.

T.23N., R.09W. Willamette Meridian: SW¹/4 SE¹/4 Section 10; S¹/2 NW¹/4, SW¹/4, E¹/2 SE¹/4, SE¹/4 SE¹/4, NW¹/4 NE¹/4, NE¹/4 NW¹/4 Section 15; SE¹/4 NE¹/4, SE¹/4 SW¹/4, SE¹/4 Section 16; SE¹/4 SE¹/4 Section 19; S¹/2, S¹/2 NE¹/4, NE¹/4 NE¹/4 Section 20; Sections 21–22; W¹/2 W¹/2, E¹/2 SW¹/4, W¹/2 SE¹/4, SE¹/4 SE¹/4 Section 23; SW¹/4 SW¹/4 Section 24; Section 25–29; SE¹/4 SW¹/4, SE¹/4, E¹/2 NE¹/4 Section 30; E¹/2 W¹/2, E¹/2 Section 31; Section 32–36.



Map and description of WA-03-b taken from United States Fish and Wildlife Service 1:100;000 map; Mt. Olympus and Shelton, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.21N., R.06W. Willamette Meridian: W1/2, NW1/4 NE1/4 Section 3; Sections 4–6; NW1/4 NW1/4, E1/2 W1/2, SW1/4 SW1/4, E1/2 Section 7; Section 8; E1/2, NE1/4 Section 9; N1/2 NW1/4 Section 10.

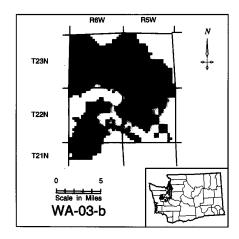
T.22N., R.05W. Willamette Meridian: Sections 1-4; S¹/₂, NE¹/₄ NW¹/₄, NE¹/₄ Section 5; NW1/4, SE1/4, E1/2 SW1/4, W1/2 NE1/4, SE1/4 NE1/4 Section 6; Section 7 except NW1/4 NW¹/₄; Sections 8–10; Section 11 except E¹/₂ SE1/4, NE1/4 NE1/4; W1/2 W1/2, E1/2 NW1/4, NW¹/₄ NE¹/₄, NE¹/₄ SW¹/₄ Section 14; N¹/₂ NW¹/₄, W¹/₂ SW¹/₄ Section 15; Sections 16-18; N¹/₂ NW¹/₄, W¹/₂ SW¹/₄, NE¹/₄, SE¹/₄ NW1/4, NE1/4 SE1/4 Section 19; Sections 20-22; Section 26; N1/2, N1/2 SE1/4, SW1/4 SE1/4, NE1/4 SW1/4 Section 28; NW1/4 NW1/4, N1/2 NE1/4, SE1/4 NE1/4 Section 29; S1/2 SW1/4, NW1/4 SE1/4, SW1/4 NE1/4, NE1/4 SE1/4 Section 30; NE1/4 NW1/4, NE1/4, NE1/4 SE1/4 Section 31; W¹/₂ NW¹/₄, N¹/₂ SW¹/₄, SE¹/₄, SW¹/₄ NE¹/₄, SE¹/₄ SW¹/₄, SE¹/₄ NW¹/₄ Section 32; NE1/4 Section 34; W1/2 W1/2, NE1/4 SW1/4 Section 36.

T.22N., R.06W. Willamette Meridian: N1/2 NW¹/₄, NE¹/₄, NE¹/₄ SE¹/₄ Section 1; SE¹/₄ NE1/4, NE1/4 NW1/4 Section 2; NW1/4 NW1/4 Section 4; NW1/4, W1/2 SW1/4, W1/2 NE1/4, NE¹/₄ NE¹/₄ Section 5; Section 6 except S¹/₂ SE¹/₄, SE¹/₄ SW¹/₄; E¹/₂ SE¹/₄ Section 8; S¹/₂ Section 9; S1/2 NW1/4, S1/2, NE1/4 NW1/4, W1/2 NE1/4 Section 10; SW1/4, SW1/4 SE1/4 Section 11; NE1/4 SE1/4, S1/2 SE1/4 Section 12; Section 13 except W1/2 SW1/4; NW1/4, N1/2 SW1/4 Section 14; Section 15 except SE1/4 SW1/4, S¹/₂ SE¹/₄; Section 16; SW¹/₄ SE¹/₄, E¹/₂ E¹/₂ Section 17; SE1/4 NW1/4, S1/2 NE1/4, N1/2 SE1/4, SE¹/₄ SE¹/₄ Section 19; Section 20 except E¹/₂ NW¹/₄; Section 21; W¹/₂ SW¹/₄ Section 22; W1/2 SW1/4, NE1/4 SW1/4, SW1/4 NE1/4, E1/2 SE1/4 Section 23; N1/2 NE1/4 Section 24; S1/2 N1/2, NE1/4 NE1/4, SE1/4 SE1/4, NE1/4 NE1/4, N1/2 SE1/4 Section 25; NW1/4, SE1/4 NE1/4, NE1/4 SE1/4, SW1/4 SW1/4, N1/2 NE1/4 Section 26; Section 27 except N¹/₂ NE¹/₄, SE¹/₄ NE¹/₄; Sections 28-29; SE¹/₄, SW¹/₄ NE¹/₄, E¹/₂ NE¹/₄, NE1/4 SW1/4 Section 30; Section 31 except

 $W^{1/2}$ NW^{1/4}; Sections 32–33; Section 34 except $E^{1/2}$ SE^{1/4}; N^{1/2} NW^{1/4} Section 35.

T.23N., R.05W. Willamette Meridian: $W^{1/2}$ SW $^{1/4}$ Section 4; Sections 5–8; Section 9 except NE $^{1/4}$ NE $^{1/4}$; S $^{1/2}$ SW $^{1/4}$ Section 14; N $^{1/2}$ NW $^{1/4}$, NW $^{1/4}$ SW $^{1/4}$, S $^{1/2}$ S $^{1/2}$ Section 15; Sections 16–22; Section 23 except SE $^{1/4}$ NE $^{1/4}$, N $^{1/2}$ NE $^{1/4}$; S $^{1/2}$ SW $^{1/4}$ Section 24; W $^{1/2}$ Section 25; Section 26–35; Section 36 except NE $^{1/4}$.

T.23N., R.06W. Willamette Meridian: S½2 SW¼4, NE¼4 SW¼4, SE¼4, S½2 NE¼4, NE¼4 NE¼4 SE¼4 Section 2; S½2 NW¼4, NW¼4 NW¼4, SW¼4, W½2 SE¼4, SE¼4 Section 4; Sections 5–9; S½2 N½2, NW¼4 NW¼4 Section 10; Sections 11–32; Section 33 except S½2 SE¼4, NE¼4 SE¼4; Section 34 except SW¼; Sections 35–36.



Map and description of WA-04-a taken from United States Fish and Wildlife Service 1:100;000 map; Shelton and Chehalis River, Washington; 1995.

Proposed Critical Habitat includes only State or County lands described within the following areas:

T.16N., R.03W. Willamette Meridian: $W^{1/2}$ SW^{1/4} Section 2; E^{1/2} NW^{1/4}, NE^{1/4} SW^{1/4}, S^{1/2} SW^{1/4}, W^{1/2} NE^{1/4}, SE^{1/4} Section 3; NE^{1/4}, SE^{1/4} SE^{1/4}, W^{1/2} Section 4; Sections 5–7; W^{1/2}, W^{1/2} NE^{1/4}, SE^{1/4} NE^{1/4} Section 8; N^{1/2} NW^{1/4}, NE^{1/4} NE^{1/4} Section 9; NW^{1/4}, W^{1/2} NE^{1/4} Section 10; NW^{1/4}, NW^{1/4} SW^{1/4}, W^{1/2} NE^{1/4} Section 16; Sections 17–18; Section 19 except W^{1/2} SW^{1/4}, SW^{1/4} NW^{1/4}; W^{1/2} W^{1/2} Section 20; NE^{1/4} NW^{1/4}, N^{1/2} NE^{1/4}, SE^{1/4} NE^{1/4} Section 30

 $\begin{array}{c} T.16N., R.04W. \ Willamette \ Meridian: \\ Sections \ 1-17; \ Section \ 18 \ except \ SW^{1/4}; \ N^{1/2} \\ NE^{1/4} \ Section \ 19; \ Section \ 20 \ except \ W^{1/2} \\ SW^{1/4}; \ Sections \ 21-23; \ W^{1/2} \ W^{1/2} \ Section \ 24; \\ N^{1/2} \ NW^{1/4} \ Section \ 26; \ Section \ 27 \ except \ S^{1/2} \\ SE^{1/4}; \ NE^{1/4} \ NW^{1/4}, \ S^{1/2} \ SE^{1/4}, \ NE^{1/4} \ SE^{1/4}, \ N^{1/2} \\ NE^{1/4} \ Section \ 28. \end{array}$

T.16N., R.05W. Willamette Meridian: $S^{1/2}$ SW^{1/4}, SE^{1/4} Section 1; S^{1/2} SE^{1/4}, NE^{1/4} SE^{1/4} Section 2; N^{1/2}, N^{1/2} SW^{1/4}, NW^{1/4} SE^{1/4}, SE^{1/4} SW^{1/4} Section 11; N^{1/2} Section 12; Section 13; E^{1/2} NE^{1/4} Section 14.

T.17N., R.03W. Willamette Meridian: $W^{1/2}$ W^{1/2} Section 2; Sections 3–7; Section 8 except SW^{1/4} SE^{1/4}; Section 9; SW^{1/4} SW^{1/4} Section 10; NW^{1/4} NW^{1/4} Section 15; Section 16; NW^{1/4} NW^{1/4}, S^{1/2} NW^{1/4}, W^{1/2} SE^{1/4}, SW^{1/4} Section 17; Sections 18–21; Sections

28–33; NW¹/₄ SW¹/₄, SE¹/₄ SW¹/₄, SW¹/₄ SE¹/₄ Section 34.

T.17N., R.04W. Willamette Meridian: Sections 1–36.

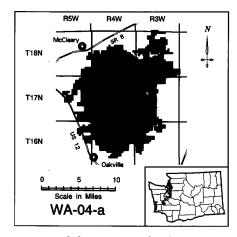
T.17N., R.05W. Willamette Meridian: Section 1; Section 2 except N½ NW¼, SW¼ NW¼; E½ SE½ Section 3; SE¼ SW¼, E½ Section 10; Section 11 except S½ SW¼; Sections 12–13; E½ Section 14; SW¼, E½ NW¼, NE¼ Section 15; NW¼, SE¼, SE¼ SW¼, NE¼ NE¼ NE¼ Section 16; E½ NW¼, NE¼ Section 21; W½ NW¼, NE¼ Section 21; W½ Section 23; Sections 24–25; S½ S½ Section 26; S½ SE¼ Section 27; Sections 35–36.

T.18N., R.03W. Willamette Meridian: N¹/₂ $N^{1/2}$, $S^{1/2}$ SE^{1/4}, SE^{1/4} SW^{1/4} Section 3; E^{1/2} NE1/4, W1/2, NE1/4 NE1/4 Section 4; SE1/4 Section 5; $E^{1/2}$ $E^{1/2}$, $SW^{1/4}$ $SE^{1/4}$ Section 8; Sections 9-10; W1/2 NW1/4, NW1/4 SW1/4 Section 11; SW1/4, S1/2 SE1/4, SE1/4 NW1/4 Section 14; Section 15 except SW1/4 SW1/4; Section 16; Section 17 except NW1/4 NW1/4, E¹/₂ SE¹/₄; SE¹/₄ NW¹/₄, SE¹/₄ SW¹/₄, N¹/₂ SW1/4, SE1/4, S1/2 NE1/4 Section 18; NE1/4 NW1/4, NW1/4 SW1/4, S1/2 S1/2 Section 19; E1/2 SE1/4, W1/2 E1/2, W1/2 Section 20; S1/2, S1/2 NE1/4, SE1/4 NW1/4 Section 21; NW1/4, W1/2 NE1/4, N1/2 SW1/4, SW1/4 SW1/4, NW1/4 SE1/4, SE1/4 SE1/4 Section 22; Section 26; Section 27 except NE1/4 NW1/4, NW1/4 NE1/4; Sections 28-35; Section 36 except S¹/₂ SE¹/₄.

T.18N., R.04W. Willamette Meridian: SE½ SE¼, SE¼ SW¼ Section 9; S½ S½ Section 10; SW¼ SW¼ Section 11; SW¼ SW¼, NE⅓ SE¼, SE¼ SE¼ Section 13; W½ NW¼, SE¼, SE¼ SE¼, SE¼ SE¼ Section 14; Sections 15–16; E½ SW¼, SE¼ Section 17; SE¼, E½ SW¼ Section 18; Sections 19–23; Section 24 except N½ NE¼, SE¼ NE¼; Se¼ Sections 25–36.

T.18N., R.05W. Willamette Meridian: $S^{1/2}$ SE¹/₄ Section 13; $S^{1/2}$ Section 24; $S^{1/2}$ Section 25; E¹/₂ Section 35; Section 36.

T.19N., R.03W. Willamette Meridian: S¹/₂ S¹/₂ Section 33.



Map and description of WA-05-a taken from United States Fish and Wildlife Service 1:100;000 map; Chehalis River, Washington; 1995.

Proposed Critical Habitat includes only State or County lands described within the following areas:

T.12N., R.08W. Willamette Meridian: Section 3 except $S^{1\!/_{\! 2}}$ $SW^{1\!/_{\! 4}}$, $SW^{1\!/_{\! 4}}$, $SE^{1\!/_{\! 4}}$;

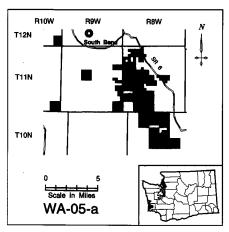
Section 4 except $S^{1/2}$ $S^{1/2}$; Section 5; Section 9; Section 10 except $NW^{1/4}$ $NW^{1/4}$; $S^{1/2}$ $S^{1/2}$ Section 11; Sections 14–16.

T.13N., R.08W. Willamette Meridian: SW¹/4 SW¹/4 Section 4; Section 5 except N¹/2 NW¹/4, NW¹/4 NE¹/4; S¹/2 SE¹/4, NE¹/4 SE¹/4, S¹/2 NE¹/4 Section 6; Section 7 except SE¹/4 NW¹/4, E¹/2 NE¹/4; W¹/2 W¹/2, SE¹/4 SE¹/4, NW¹/4 Section 8; SW¹/4 Section 14; NE¹/4 SW¹/4, Section 15; Sections 16–20; NW¹/4 NW¹/4, E¹/2 NW¹/4, SW¹/4, NE¹/4 Section 21; W¹/2 NW¹/4 Section 22; NW¹/4 NW¹/4 Section 23; Sections 28–29; Section 30 except N¹/2 N¹/2; Sections 32–33.

T. 13N., R.09W. Willamette Meridian: S½
Section 12; S½ SW¼ Section 13; Section 16;
NE¼ NW¼, E½ SW¼, N½ NE¼, SE¼
Section 24; E½ SE¼, NE¼ Section 25;
Section 36 except W½ W½.

T.13N., R.10W. Willamette Meridian: Section 36

T.14N., R.10W. Willamette Meridian: Section 36.



Map and description of WA-05-b taken from United States Fish and Wildlife Service 1:100;000 map; Astoria, Oregon-Washington; 1995.

Proposed Critical Habitat includes only State or County lands described within the following areas:

T.10N., R.09W. Willamette Meridian: N $^{1}\!\!/_{2}$, N $^{1}\!\!/_{2}$ SE $^{1}\!\!/_{4}$, NE $^{1}\!\!/_{4}$ SW $^{1}\!\!/_{4}$ Section 3; N $^{1}\!\!/_{2}$ NE $^{1}\!\!/_{4}$ Section 4.

T.11N., R.09W. Willamette Meridian: Sections 4–10; W 1 /2 Section 14; Sections 15–18; Section 19 except SW 1 /4 SW 1 /4; Sections 20–22; Sections 27–29; NW 1 /4, E 1 /2 Section 33; N 1 /2, SE 1 /4 Section 34.

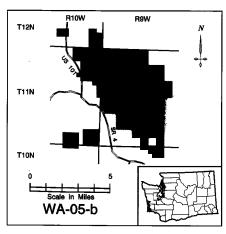
T.11N., R.10W. Willamette Meridian: Sections 1–2; NE¹/4 SW¹/4, E¹/2 Section 11; Section 12; E¹/2 SE¹/4, N¹/2 NE¹/4, SE¹/4 NE¹/4 Section 13: Section 36

T.12N., R.10W. Willamette Meridian: S¹/₂ SW¹/₄ Section 25; NW¹/₄, E¹/₂ NE¹/₄ Section 34; Section 36.

Proposed Critical Habitat includes only Private lands described within the following areas:

T.11N., R.10W. Willamette Meridian: $E^{1/2}$ SE $^{1/4}$, SE $^{1/4}$ NE $^{1/4}$ Section 34; S $^{1/2}$ NW $^{1/4}$, SW $^{1/4}$, W $^{1/2}$ SE $^{1/4}$, SW $^{1/4}$ NE $^{1/4}$ Section 35.

T.10N., R.10W. Willamette Meridian: N¹/₂ NW¹/₄, NW¹/₄ NE¹/₄ Section 2; NE¹/₄ NE¹/₄ Section 3.



Map and description of WA-05-c taken from United States Fish and Wildlife Service 1:100;000 map; Astoria, Oregon-Washington; 1995.

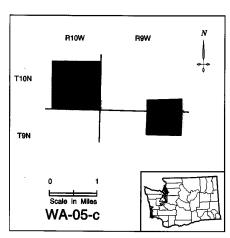
Proposed Critical Habitat includes only State or County lands described within the following areas:

T.10N., R.10W. Willamette Meridian: Section 36.

Proposed Critical Habitat includes only Private lands described within the following areas:

T.09N., R.09W. Willamette Meridian: NW1/4, W1/2 NE1/4 Section 5.

T.10N., R.09W. Willamette Meridian: $S^{1/2}$ SW¹/₄, SW¹/₄ SE¹/₄ Section 32.



Map and description of WA-05-d taken from United States Fish and Wildlife Service 1:100;000 map; Cape Flattery, Washington; Astoria, Oregon-Washington; 1995.

Proposed Critical Habitat includes only State or County lands described within the following areas:

 $\begin{array}{c} T.10N., R.06W. \ Willamette \ Meridian: \\ Sections \ 2-5; \ N^{1}/2, \ S^{1}/2 \ SE^{1}/4 \ Section \ 6; \ SE^{1}/4, \\ N^{1}/2 \ NE^{1}/4, \ SE^{1}/4 \ NE^{1}/4 \ Section \ 7; \ Section \ 8-10; \ Sections \ 14-17; \ E^{1}/2 \ Section \ 18; \ Section \ 19; \ SW^{1}/4, \ NW^{1}/2, \ NW^{1}/2, \ NE^{1}/4, \ NE^{1}/4, \ NE^{1}/4 \ Section \ 20; \ Section \ 21-27; \ S^{1}/2 \ NW^{1}/4, \ NW^{1}/4, \ SE^{1}/4 \ Section \ 28; \ NE^{1}/4 \ Section \ 29; \ NW^{1}/4, \ W^{1}/2 \ NE^{1}/4 \ Section \ 30; \ N^{1}/2, \ N^{1}/2 \ SW^{1}/4 \ Section \ 33; \ N^{1}/2, \ W^{1}/2 \ SE^{1}/4, \ NE^{1}/4 \ SE^{1}/4, \ NE^{1}/4, \ NE^{1}/4 \ SE^{1}/4, \ NE^{1}/4 \ SE^{1}/4, \ NE^{1}/4, \ NE^{1}/4,$

Section 34; N¹/₂, SW¹/₄, NW¹/₄ SE¹/₄ Section 35; Section 36 except SE¹/₄ SW¹/₄.

T.10N., R.08W. Willamette Meridian: NW¹/₄ NW¹/₄ Section 1; Section 2; NW¹/₄ Section 10; NE¹/₄, E¹/₂ NW¹/₄, N¹/₂ SE¹/₄ Section 11; W¹/₂ NW¹/₄, SW¹/₄ NE¹/₄ Section

T.11N., R.07W. Willamette Meridian: $W^{1/2}$ Section 8; Section 16 except $SE^{1/4}$ $SE^{1/4}$; Sections 17–18; Section 19 except $SW^{1/4}$ $SW^{1/4}$; Section 20; $S^{1/2}$ $SE^{1/4}$ Section 21; $N^{1/2}$ Section 29; $N^{1/2}$, $SW^{1/4}$ Section 30; $N^{1/2}$ $NW^{1/4}$ Section 31; $E^{1/2}$, $E^{1/2}$ $W^{1/2}$, $SW^{1/4}$ $SW^{1/4}$ Section 36.

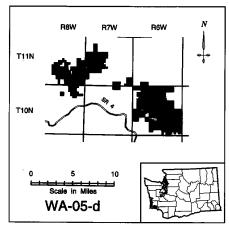
T.11N., R.08W. Willamette Meridian: $S^{1/2}$ SW $^{1/4}$ Section 13; SE $^{1/4}$ SE $^{1/4}$ Section 20; S $^{1/2}$, S $^{1/2}$ NE $^{1/4}$ Section 21; S $^{1/2}$ NW $^{1/4}$, NW $^{1/4}$ NW $^{1/4}$, SE $^{1/4}$ Section 22; NW $^{1/4}$ SW $^{1/4}$ Section 23; Sections 24–25; Section 26 except W $^{1/2}$ NW $^{1/4}$, E $^{1/2}$ SW $^{1/4}$; Sections 27–28; E $^{1/2}$ SE $^{1/4}$, NE $^{1/4}$ Section 33; N $^{1/2}$, SE $^{1/4}$ Section 34; Sections 35–36.

Proposed Critical Habitat includes only Private lands described within the following areas:

T.10N., R.07W. Willamette Meridian: $NW^{1/4}$ Section 2; $NE^{1/4}$ Section 3.

T.11N., R.06W. Willamette Meridian: $S^{1/2}$ Section 32.

T.11N., R.07W. Willamette Meridian: $SE^{1/4}$ Section 34; $SW^{1/4}$ Section 35.



Map and description of WA-05-e taken from United States Fish and Wildlife Service 1:100;000 map; Astoria, Oregon-Washington; 1995.

Proposed Critical Habitat includes only State or County lands described within the following areas:

T.08N., R.04W. Willamette Meridian: Section 4 except SE 1 /4 SE 1 /4; W 1 /2 NW 1 /4, SW 1 /4, SV 1 /2 SE 1 /4, NE 1 /4 NW 1 /4 Section 5; S 1 /2 Section 6; N 1 /2 Section 7.

T.08N., R.05W. Willamette Meridian: Section 1 except SW $\frac{1}{4}$ NW $\frac{1}{4}$; NW $\frac{1}{4}$, NW $\frac{1}{4}$, NE $\frac{1}{4}$, Section 2; Section 3 except SE $\frac{1}{4}$; Section 4; N $\frac{1}{2}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 5; NW $\frac{1}{4}$, SE $\frac{1}{4}$, N $\frac{1}{2}$ NE $\frac{1}{4}$ Section 12; Section 16; N $\frac{1}{2}$ Section 12; Section 16; N $\frac{1}{2}$ Section 21.

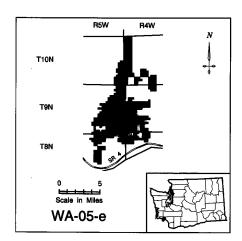
T.09N., R.04W. Willamette Meridian: Section 3 except SW $^{1}/_{4}$ SW $^{1}/_{4}$; W $^{1}/_{2}$ W $^{1}/_{2}$ Section 6; W $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$, SE $^{1}/_{4}$ Section 7; NW $^{1}/_{4}$ SW $^{1}/_{4}$ Section 8; SW $^{1}/_{4}$ SW $^{1}/_{4}$ Section 10; W $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$ SW $^{1}/_{4}$ Section 10; W $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$ SW

Section 15; Section 16 except $S^{1/2}$ $SE^{1/4}$, $SE^{1/4}$ $SW^{1/4}$; Sections 17–19; $W^{1/2}$, $S^{1/2}$ $SE^{1/4}$ Section 20; $S^{1/2}$ $S^{1/2}$ Section 21; $NW^{1/4}$ $NW^{1/4}$ Section 27; $N^{1/2}$ $N^{1/2}$, $SW^{1/4}$ $NW^{1/4}$, $S^{1/2}$ Section 28; Sections 29–31; $W^{1/2}$ Section 32; $W^{1/2}$, $SE^{1/4}$ Section 33.

T.09N., R.05W. Willamette Meridian: Section 1; N 1 /2 N 1 /2, NW 1 /4 SE 1 /4 Section 2; E 1 /2 SE 1 /4 Section 10; Section 11 except N 1 /2 NW 1 /4; Sections 12–14; Section 15 except N 1 /2 NW 1 /4; Se 1 /2 SE 1 /4, SE 1 /4 NE 1 /4 Section 16; SE 1 /4, SE 1 /4 NE 1 /4 Section 21; Sections 22–28; E 1 /2 SE 1 /4 Section 29; SE 1 /4 Section 32; Section 33 except E 1 /2 NW 1 /4, W 1 /2 NE 1 /4, SE 1 /4 NE 1 /4, NE 1 /4, Section 34 except NW 1 /4; Sections 35–36.

T.10N., R.04W. Willamette Meridian: Sections 6–7; Sections 18–19; S 1 /₂ SE 1 /₄, SE 1 /₄ SW 1 /₄ Section 27; Section 28 except NE 1 /₄ NE 1 /₄, W 1 /₂ SW 1 /₄ Section 29; Section 30; W 1 /₂ Section 31; W 1 /₂, NE 1 /₄ Section 32; SW 1 /₄ NW 1 /₄ Section 33; Section 34.

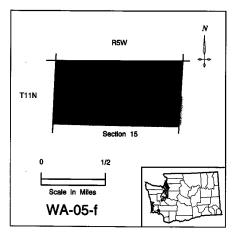
T.10N., R.05W. Willamette Meridian: Section 24 except NW 1 /4 NW 1 /4; Section 25; E 1 /2 NE 1 /4, SE 1 /4 Section 26; E 1 /2 Section 35; Section 36.



Map and description of WA-05-f taken from United States Fish and Wildlife Service 1:100;000 map; Astoria, Oregon-Washington; 1995.

Proposed Critical Habitat includes only Private lands described within the following areas:

T.11N., R.05W. Willamette Meridian: $N^{1}/_{2}$ Section 15.

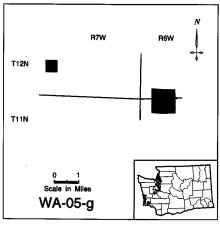


Map and description of WA-05-g taken from United States Fish and Wildlife Service 1:100;000 map; Astoria, Oregon-Washington; 1995.

Proposed Critical Habitat includes only Private lands described within the following areas:

T.11N., R.06W. Willamette Meridian: NW 1 /4, NW 1 /4 SW 1 /4 Section 5; NE 1 /4, SE 1 /4 Section 6.

T.12N., R.06W. Willamette Meridian: SE¹/₄ SE¹/₄ Section 31; SW¹/₄ SW¹/₄ Section 32. T.12N., R.07W. Willamette Meridian: SW¹/₄ Section 28.



Map and description of WA-05-h taken from United States Fish and Wildlife Service 1:100;000 map; Chehalis River, Washington; 1995.

Proposed Critical Habitat includes only State or County lands described within the following areas:

 $T.12N,\,R.05W.$ Willamette Meridian: $NW^{1}\!/_{\!\!4}$ Section 6.

 $\begin{array}{c} T.12N,\ R.06W.\ Willamette\ Meridian:\ NE^{1}\!\!/_{4}\\ NE^{1}\!\!/_{4},\ S^{1}\!\!/_{2}\ NE^{1}\!\!/_{4}\ Section\ 1;\ NW^{1}\!\!/_{4},\ W^{1}\!\!/_{2}\ NE^{1}\!\!/_{4}\\ NE^{1}\!\!/_{4}\ NE^{1}\!\!/_{4}\ Section\ 3;\ N^{1}\!\!/_{2}\ NE^{1}\!\!/_{4}\ Section\ 6. \end{array}$

T.12N, R.07W. Willamette Meridian: $N^{1/2}$ NE $^{1/4}$ Section 1.

T.12N, R.08W. Willamette Meridian: $NE^{1/4}$ $NW^{1/4}$, $NE^{1/4}$ Section 1.

T.13N, R.05W. Willamette Meridian: N¹/₂ NW¹/₄ Section 1; N¹/₂ NE¹/₄ Section 2; NE¹/₄ SW¹/₄, S¹/₂ SW¹/₄, SE¹/₄ Section 8; S¹/₂ SW¹/₄, NE¹/₄ SW¹/₄ Section 9; S¹/₂ Section 10;

Sections 15–21; Section 22 except S½ SE¼, NE¼ SE¼, E½ NE¼; NW¼, NW¼ NE¼ Section 27; NE¼ Section 28; Section 29–31; Section 32 except W½ SW¼.

T.13N, R.06W. Willamette Meridian: Sections 6–7; SW¹/₄ SW¹/₄ Section 8; SE¹/₄ Section 12; Section 13; Section 14 except W¹/₂ W¹/₂; W¹/₂ NW¹/₄ Section 15; Section 16; Section 18–33; Section 34 except SW¹/₄ SW¹/₄; Section 35; Section 36 except SE¹/₄ SW¹/₄.

T.13N, R.07W. Willamette Meridian: Sections 1–2; Section 3 except NW 1 /4; S 1 /2 NW 1 /4, SW 1 /4 SW 1 /4 Section 7; SE 1 /4 NE 1 /4, NE 1 /4 SE 1 /4 Section 9; S 1 /2 NW 1 /4, NE 1 /4 NW 1 /4, S 1 /2 Section 10; Sections 11–16; W 1 /2 SW 1 /4, SE 1 /4 SW 1 /4, SE 1 /4 Section 17; NW 1 /4, SE 1 /4 Section 18; E 1 /2 NE 1 /4 Section 19; N 1 /2, SE 1 /4 Section 20; Sections 21–24; Section 27; W 1 /2 W 1 /2 Section 28; Section 29 except W 1 /2 NW 1 /4; SE 1 /4 Section 30; W 1 /2 Section 31; NW 1 /4, NW 1 /4 NE 1 /4, Section 32; Section 36.

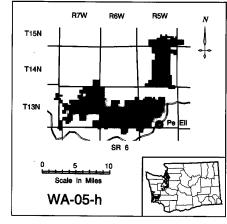
T.13N, R.08W. Willamette Meridian: $SE^{1/4}$ $SW^{1/4}$, $E^{1/2}$ Section 12.

T.14N, R.05W. Willamette Meridian: $S^{1/2}$ Section 1; Sections 2–4; $E^{1/2}$ Section 9; Section 10–11; $N^{1/2}$ NE^{1/4} Section 12; Sections 14–16; Sections 21–23; W^{1/2} W^{1/2} Section 25; Sections 26–28; SW^{1/4}, E^{1/2} Section 32; Sections 33–35; SW^{1/4}, W^{1/2} NW^{1/4} Section 36.

T.14N, R.07W. Willamette Meridian: Section 36.

T.15N, R.04W. Willamette Meridian: Section 31 except S¹/₂ S¹/₂.

T.15N, R.05W. Willamette Meridian: SW¹/4, S¹/2 SE¹/4, NE¹/4 SE¹/4 Section 25; SW¹/4, N¹/2 SE¹/4, SE¹/4 NW¹/4 Section 26; S¹/2 SW¹/4, SE¹/4, SW¹/4 NE¹/4, Section 27; Sections 33–36.



Map and description of WA-06-a taken from United States Fish and Wildlife Service 1:100,000 map; Port Angeles, Mt Olympus and Seattle, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.26N., R.02W. Willamette Meridian: SW 1 /4 SW 1 /4, NE 1 /4, E 1 /2 SW 1 /4 Section 2; Section 3 except N 1 /2 NE 1 /4, SE 1 /4 NE 1 /4; E 1 /2, N 1 /2 NW 1 /4, SE 1 /4 NW 1 /4, NE 1 /4 SW 1 /4 Section 4; N 1 /2 NV 1 /2, SW 1 /4 NW 1 /4, S 1 /2 SW 1 /4 Section

5; Sections 6–7; W¹/2, S¹/2 SE¹/4 Section 8; S¹/2 SE¹/4, SE¹/4 SW¹/4, NE¹/4 NE¹/4 Section 9; Section 10 except SW¹/4 NW¹/4, NW¹/4 SW¹/4; Section 14 except E¹/2 SE¹/4; S¹/2 SW¹/4, E¹/2 NE¹/4, NW¹/4 NE¹/4, NE¹/4 SE¹/4 Section 15; Section 16 except NE¹/4 SE¹/4, E¹/2 NE¹/4; Section 17–21; W¹/2 W¹/2, SE¹/4 SW¹/4, SW¹/4 SE¹/4 Section 22; Section 27 except E¹/2 E¹/2, NW¹/4 NE¹/4.

 $\begin{array}{c} T.26N., R.03W. \ Willamette \ Meridian: \\ Sections \ 1-2; \ Section \ 3 \ except \ W^{1}\!\!/_2 \ SW^{1}\!\!/_4, \\ SE^{1}\!\!/_4 \ SW^{1}\!\!/_4, \ SW^{1}\!\!/_4 \ NW^{1}\!\!/_4; \ NE^{1}\!\!/_4 \ NE^{1}\!\!/_4 \ Section \\ 4; \ E^{1}\!\!/_2 \ Section \ 10; \ Section \ 11-14; \ Section \ 15 \\ except \ N^{1}\!\!/_2 \ NW^{1}\!\!/_4; \ N^{1}\!\!/_2 \ S^{1}\!\!/_2, \ SE^{1}\!\!/_4 \ NE^{1}\!\!/_4 \ NE^{1}\!\!/_4 \ NE^{1}\!\!/_4 \ NE^{1}\!\!/_4 \ NW^{1}\!\!/_4 \ Section \ 19; \ NE^{1}\!\!/_4, \ NW^{1}\!\!/_4 \ NW^{1}\!\!/_4 \ Section \ 20; \ NE^{1}\!\!/_4 \ NE^{1}\!\!/_4 \ NW^{1}\!\!/_4 \ NW^{1}\!\!/_4 \ Section \ 21; \ N^{1}\!\!/_2 \ NW^{1}\!\!/_4, \ E^{1}\!\!/_2 \ NE^{1}\!\!/_4 \ Section \ 22; \ Section \ 23 \ except \ SW^{1}\!\!/_4; \ Section \ 24. \end{array}$

 $T.26\tilde{N}$., R.04W. Willamette Meridian: NE 1 /4 Section 24.

T.27N., R.02W. Willamette Meridian: SW¹/₄ SW¹/₄ Section 5; Section 6 except NE¹/₄ NE¹/₄; Section 7; W¹/₂ W¹/₂ Section 8; W¹/₂ W¹/₂, SE¹/₄, SW¹/₄ NE¹/₄ Section 17; Sections 18–20; NW¹/₄ SW¹/₄ Section 21; SW¹/₄, S\¹/₂ NW¹/₄, NW¹/₄ NW¹/₄ Section 28; Sections 29–33; W¹/₂, N¹/₂ NE¹/₄ Section 34; N¹/₂ NW¹/₄, E¹/₂ Section 35.

 $\begin{array}{c} T.27N., R.03W. \ Willamette \ Meridian: \\ Section 1; Section 2 except SW\\^4 SW\\^4; \\ NE\\^4 NE\\^4 Section 3; E\\^1_2, E\\^2 SW\\^4, SE\\^4 NW\\^4; \\ Section 11; Section 12-13; Section 14 except W\\^2 NW\\^4, SE\\^4 NW\\^4; E\\^2 SE\\^4 \\ Section 15; E\\^2 E\\^2, SW\\^4 SE\\^4 Section 22; \\ Sections 23-26; Section 27 except N\\^2 NW\\^4, SE\\^4 NW\\^4, SE\\^4 SE\\^4 NE\\^4, SE\\^4 Section 28; E\\^2 NW\\^4, SE\\^4, NE\\^4 SE\\^4, NE\\^4 SE\\^4, NE\\^4 SE\\^4, NE\\^4, SE\\^4, NE\\^4, SE\\^4, NE\\^4, SE\\^4, NE\\^4, SE\\^4, SE\\^4, NE\\^4, SE\\^4, SE\\^4, SE\\^4, NE\\^4, SE\\^4, SE\\^4$

T.28N., R.02W. Willamette Meridian: NE¹/₄ NW¹/₄, NW¹/₄ NE¹/₄ Section 5; SW¹/₄ SW¹/₄ Section 7; SE¹/₄ SW¹/₄ Section 8; NE¹/₄ NW¹/₄, NW¹/₄ SE¹/₄, SE¹/₄ Section 17; NW¹/₄, SW¹/₄ NE¹/₄ Section 18; NE¹/₄ NW¹/₄, SE¹/₄ SW¹/₄ Section 20; N¹/₂ SW¹/₄, SE¹/₄ SW¹/₄, W¹/₂ SE¹/₄ Section 28; NE¹/₄ NW¹/₄, W¹/₂ NE¹/₄ Section 29; S¹/₂ SE¹/₄ Section 30; SE¹/₄ NW¹/₄, SW¹/₄, W¹/₂ SE¹/₄ Section 31.

T.28N., R.03W. Willamette Meridian: W1/2 SE1/4, NE1/4, N1/2 NW1/4 Section 1; W1/2, N1/2 NE1/4, SE1/4 NE1/4, SW1/4 SE1/4 Section 2; Sections 3-5; Section 6 except SW1/4 NW1/4, SW¹/₄ SW¹/₄; Section 7 except NW¹/₄ NW¹/₄; Sections 8-10; SW¹/₄, NW¹/₄, NW¹/₄ NE¹/₄, NW1/4 SE1/4, S1/2 SE1/4 Section 11; S1/2 SW1/4, $SE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$ Section 12; Section 13–23; N¹/₂ NE¹/₄, SE¹/₄ NE¹/₄, N¹/₂ NE¹/₄, SE¹/₄ NE¹/₄ Section 24; N¹/₂ SW¹/₄, W¹/₂ NW¹/₄ Section 25; Section 26-28; Section 29 except W1/2 SW¹/₄; S¹/₂ S¹/₂, Section 30 except \$\tilde{S}E^{1}/_{4}\$, \$S^{1}/_{2}\$ SW1/4; E1/2 E1/2, NW1/4 NE1/4 Section 32; Section 33 except S1/2 SE1/4, SE1/4 SW1/4; Section 34; Section 35 except NE¹/₄ SE¹/₄, SE1/4 NE1/4; E1/2 SE1/4 Section 36.

 $\begin{array}{c} T.28N.,\,R.04W.\,\,Willamette\,\,Meridian:\,\,SE^{1/4}\,\,SE^{1/4}\,\,Section\,\,12;\,\,SE^{1/4}\,\,SW^{1/4},\,\,SE^{1/4},\,\,E^{1/2}\,\,NE^{1/4}\,\,Section\,\,13;\,\,Section\,\,24\,\,except\,\,NW^{1/4}\,\,NW^{1/4};\,\,Section\,\,25;\,\,S^{1/2}\,\,SE^{1/4},\,\,NE^{1/4}\,\,SE^{1/4}\,\,Section\,\,26;\,\,E^{1/2}\,\,NW^{1/4},\,\,E^{1/2}\,\,Section\,\,35;\,\,NW^{1/4},\,\,N^{1/2}\,\,SW^{1/4},\,\,SW^{1/4}\,\,SW^{1/4}\,\,SW^{1/4}\,\,N^{1/2}\,\,NE^{1/4}\,\,SW^{1/4}\,\,NE^{1/4}\,\,Section\,\,36\end{array}$

T.29N., R.02W. Willamette Meridian: W¹/₂ NW¹/₄, SE¹/₄ NW¹/₄, N¹/₂ S¹/₂, NE¹/₄ Section 30; SW¹/₄ NW¹/₄, W¹/₂ SW¹/₄, NE¹/₄ SE¹/₄

Section 31; $W^{1/2}$ $NW^{1/4}$, $SE^{1/4}$ $NW^{1/4}$, $SW^{1/4}$, $W^{1/2}$ $SE^{1/4}$ Section 32.

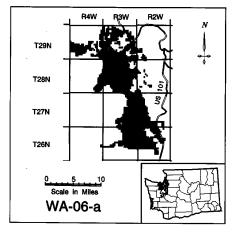
T.29N., R.03W. Willamette Meridian: $S\frac{1}{2}$ SE¹/₄ Section 18; Section 19; NW¹/₄, W¹/₂ SW¹/₄ Section 20; E¹/₂ NE¹/₄, E¹/₂ SW¹/₄, NE¹/₄ SW¹/₄, SE¹/₄ Section 23; Section 24 except E¹/₂ SE¹/₄, SE¹/₄ NE¹/₄; Section 25; NW¹/₄, N¹/₂ SW¹/₄, N¹/₂ SW¹/₄, NE¹/₄ SE¹/₄ Section 26; SE¹/₄, SV¹/₄ NE¹/₄ Section 26; SE¹/₄, SV¹/₄, NE¹/₄ SW¹/₄ Section 27; S¹/₂ SW¹/₄, NE¹/₄ Section 29; Section 30 except E¹/₂ E¹/₂; Sections 31–34; S¹/₂, NW¹/₄ NE¹/₄ Section 36.

T.29N., R.04W. Willamette Meridian: S1/2, S1/2 NW1/4, NW1/4 NW1/4, SW1/4 NE1/4 Section 19; $SW^{1/4}$, $S^{1/2}$ $SE^{1/4}$, $NW^{1/4}$ $SE^{1/4}$ Section 20; SW1/4, SE1/4 SE1/4 Section 21; E1/2 W1/2, SW1/4 SW1/4, W1/2 SE1/4, NE1/4 Section 22; NE1/4 SW1/4, SE1/4, E1/2 NE1/4, NW1/4 NW1/4 Section 23; Section 24 except W1/2 W1/2; NW1/4 SW1/4, SE1/4 SW1/4, SE1/4, Ê1/2 NE1/4, NW1/4 NE1/4 Section 25; SW1/4 NW1/4, NE1/4 SW1/4, E1/2 E¹/₂, NW¹/₄ NE¹/₄ Section 26; NW¹/₄, N¹/₂ SE1/4, NW1/4 NE1/4, S1/2 NE1/4 Section 27; Sections 28-30; N¹/₂, N¹/₂ SW¹/₄ Section 32; N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄, NW¹/₄ NE¹/₄ Section 33; SE1/4 NE1/4, NE1/4 SE1/4 Section 34; SW1/4 NW¹/₄, SE¹/₄ NE¹/₄, N¹/₂ S¹/₂ Section 35; Section 36 except SW1/4 SW1/4.

Proposed Critical Habitat includes only State or County lands described within the following areas:

T.29N., R.03W. Willamette Meridian: W1/2 SW1/4, SE1/4 SW1/4, SW1/4 SE1/4 Section 4; S1/2 SW¹/₄, SE¹/₄, SE¹/₄ NE¹/₄ Section 5; SE¹/₄ NE1/4, S1/2 SE1/4, W1/2 SW1/4, NE1/4 SE1/4 Section 6; Section 7 except E1/2 NW1/4; Section 8 except NE1/4, SW1/4 SW1/4; Section 9; W¹/₂ NW¹/₄, SE¹/₄ NW¹/₄, SW¹/₄, NE¹/₄ SE¹/₄, NE¹/₄ Section 10; E¹/₂ SW¹/₄, SE¹/₄ NE1/4, NW1/4, SE1/4 Section 11; NW1/4, E1/2 SW1/4 Section 13; Section 14 except W1/2 NW¹/₄, SE¹/₄ NW¹/₄; N¹/₂ NW¹/₄ Section 15; W1/2, NW1/4 NE1/4, NW1/4 SE1/4 Section 16; Section 17 except W¹/₂ NW¹/₄; N¹/₂ SE¹/₄, W¹/₂ NE¹/₄, E¹/₂ NW¹/₄, NE¹/₄ SW¹/₄ Section 18; S¹/₂ NW1/4, NE1/4, NE1/4 SE1/4 Section 21; N1/2 NW1/4 Section 27; NE1/4 NE1/4 Section 28.

T.29N, R.04W. Willamette Meridian: $E^{1/2}$ SE^{1/4} Section 1; $E^{1/2}$, SE^{1/4} SW^{1/4} Section 12; NE^{1/4}, E^{1/2} NW^{1/4}, N^{1/2} SE^{1/4}, SW^{1/4} SE^{1/4}, NE^{1/4} SW^{1/4} Section 18.



Map and description of WA-06-b taken from United States Fish and

Wildlife Service 1:100;000 map; Mt Olympus and Shelton, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.23N., R.04W. Willamette Meridian: NW 1 /4, N 1 /2 NE 1 /4 Section 3; Section 4 except SE 1 /4 SE 1 /4; Sections 5–6; N 1 /2 Section 7; N 1 /2 Section 8; NW 1 /4 Section 9.

T.23N., R.05W. Willamette Meridian: SE¹/₄ Section 3; E¹/₂ NE¹/₄ Section 10; S¹/₂ N¹/₂, NE¹/₄ SW¹/₄, NW¹/₄ SE¹/₄ Section 11; S¹/₂ NW¹/₄. NE¹/₄ Section 12.

T.24N., R.03W. Willamette Meridian: Sections 5–6; N $^{1}\!/_{2}$ SW $^{1}\!/_{4}$, W $^{1}\!/_{2}$ NE $^{1}\!/_{4}$ Section 7

T.24N., R.04W. Willamette Meridian: Sections 1–5; E½ SE½ Section 6; SE¼ NW¼, SW¼, N½ SE¼, SW¼ SE¼, NE¼ Section 7; Section 8 except S½ SW¼, SW¼, SW¼ SE¼; Sections 9–16; SE¼ SW¼, E½ Section 17; N½ NW¼ Section 18; S½ SE¼, NE¼ SE¼, NE¼ Section 25 except S½ SE¼; Sections 20–24; Section 25 except S½ SE¼; Sections 26–29; S½ NW¼, NE¼ NW¼, S½ SE¼, NE¼ SE¼, E½ NE¼, NE¼ SE¼, NE¼ SE¼, NE¼ NW¼, NW¼ NE¼ Section 30; Section 31 except NW¼, NW¼ SW¼; Sections 32–34; Section 35 except S½ SE¼; W½ NE¼ Section 36.

T.24N., R.05W. Willamette Meridian: $SE^{1/4}$ $SE^{1/4}$ Section 12; $NE^{1/4}$ $NE^{1/4}$ Section 13.

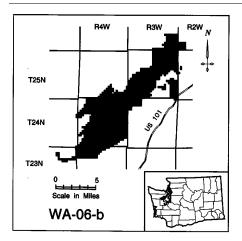
T.25N., R.02W. Willamette Meridian: $E^{1/2}$ NW $^{1/4}$, SW $^{1/4}$ SW $^{1/4}$ Section 18.

T.25N., R.03W. Willamette Meridian: Sections 1–3; Sections 10–12; N $^{1}/_{2}$, N $^{1}/_{2}$ SE $^{1}/_{4}$, SE $^{1}/_{4}$ SE $^{1}/_{4}$ Section 13; Section 14 except SE $^{1}/_{4}$ SE $^{1}/_{4}$; Section 15; Section 16 except N $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ NE $^{1}/_{4}$; S $^{1}/_{2}$ SW $^{1}/_{4}$, SE $^{1}/_{4}$, NE $^{1}/_{4}$ Section 17; S $^{1}/_{2}$ SW $^{1}/_{4}$, NE $^{1}/_{4}$ Section 20–21; Section 22 except NE $^{1}/_{4}$ SE $^{1}/_{4}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$, SI $^{1}/_{2}$ SE $^{1}/_{4}$; SI $^{1}/_{2}$ SE $^{1}/_{4}$, NE $^{1}/_{4}$ NW $^{1}/_{4}$ Section 23; NI $^{1}/_{2}$, NI $^{1}/_{2}$ SE $^{1}/_{4}$ Section 24; Section 25; except SE $^{1}/_{4}$ SE $^{1}/_{4}$, NW $^{1}/_{4}$, SW $^{1}/_{4}$ SW $^{1}/_{4}$, NV $^{1}/_{2}$ SE $^{1}/_{4}$ Section 27; Sections 28–32; Section 33 except E $^{1}/_{2}$ E $^{1}/_{2}$, SW $^{1}/_{4}$ SP $^{1}/_{4}$, NE $^{1}/_{4}$, NE $^{1}/_{4}$, SW $^{1}/_{4}$ SE $^{1}/_{4}$, Section 36 except SE $^{1}/_{4}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$, NE $^{1}/_{4}$, SW $^{1}/_{4}$ SE $^{1}/_{4}$, SW $^{1}/_{4}$, $^$

 $\begin{array}{c} T.25{\rm N., R.04W.\ Willamette\ Meridian:\ E^{1\!/}2} \\ SE^{1\!/}_4 \ Section\ 25;\ SW^{1\!/}_4 \ SW^{1\!/}_4\ Section\ 26; \\ SE^{1\!/}_4 \ SW^{1\!/}_4,\ SE^{1\!/}_4,\ SE^{1\!/}_4\ NE^{1\!/}_4\ Section\ 27; \\ SE^{1\!/}_4 \ SW^{1\!/}_4,\ SE^{1\!/}_4\ NE^{1\!/}_4,\ SE^{1\!/}_4\ Section\ 33; \\ Section\ 34;\ Section\ 35\ except\ NE^{1\!/}_4\ NE^{1\!/}_4; \\ Section\ 36\ except\ N^{1\!/}_2\ NW^{1\!/}_4. \end{array}$

T.26N., R.02W. Willamette Meridian: Section 31.

T.26N., R.03W. Willamette Meridian: Section 25; $E^{1/2}$ Section 26; $SE^{1/4}$ SE $^{1/4}$ Section 33; $S^{1/2}$ Section 34; Section 35 except NW $^{1/4}$ NW $^{1/4}$, NW $^{1/4}$ SW $^{1/4}$; Section 36.



Map and description of WA-07-a taken from United States Fish and Wildlife Service 1:100;000 map; Bellingham and Mt Baker, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.37N., R.06E. Willamette Meridian: $N^{1/2}$ NE $^{1/4}$ Section 1.

T.37N., R.07E. Willamette Meridian: $NW^{1/4}$ $NW^{1/4}$, $S^{1/2}$ $NW^{1/4}$, $SW^{1/4}$, $W^{1/2}$ $SE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$, $SW^{1/4}$ $NE^{1/4}$ Section 3; Section 4 except $SE^{1/4}$ $SW^{1/4}$; Section 5 except $SW^{1/4}$ $SW^{1/4}$; $N^{1/2}$, $NE^{1/4}$ $SE^{1/4}$ Section 6; $N^{1/2}$ $NE^{1/4}$ Section 8; $NE^{1/4}$ $NW^{1/4}$ Section 10.

T.38N., R.06E. Willamette Meridian: Section 1; Sections 12–13; $E^{1/2}$, $E^{1/2}$ $W^{1/2}$ Section 36.

T.38N., R.07E. Willamette Meridian: NW¹/4, N¹/2 SW¹/4, SW¹/4 SW¹/4 Section 3; Sections 4–8; Section 9 except S¹/2 SE¹/4; W¹/2 NW¹/4, N¹/2 NW¹/4, SW¹/4 NW¹/4 Section 16; Section 17 except SE¹/4; Sections 18–19; NW¹/4, NW¹/4 NE¹/4, W¹/2 SW¹/4 Section 20; SW¹/4, N¹/2 SE¹/4, SW¹/4 Section 27; NW¹/4 NW¹/4 Section 29; Section 30 except NE¹/4 SE¹/4; Section 31; Section 32 except NE¹/4 NE¹/4; Section 33 except NW¹/4 NW¹/4; W¹/2 W¹/2, NE¹/4 SW¹/4 Section 34.

T.39N., R.06E. Willamette Meridian: $E^{1/2}$ Section 23; Sections 25–26; Section 36.

T.39N., R.07E. Willamette Meridian: Sections 1–4; Section 5 except SW $^{1}/_{4}$; E $^{1}/_{2}$ E $^{1}/_{2}$, W $^{1}/_{2}$ SE $^{1}/_{4}$ Section 8; Section 9 except NE $^{1}/_{4}$ NE $^{1}/_{4}$; Sections 10–12; E $^{1}/_{2}$ E $^{1}/_{2}$ Section 13; Sections 14–15; N $^{1}/_{2}$, SE $^{1}/_{4}$ Section 16; NE $^{1}/_{4}$ Section 17; Section 21 except N $^{1}/_{2}$ NW $^{1}/_{4}$; W $^{1}/_{2}$, SW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 22; NE $^{1}/_{4}$ NW $^{1}/_{4}$ Section 23; W $^{1}/_{2}$, SW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 27; Section 28; W $^{1}/_{2}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$ Section 30; Sections 31–33; W $^{1}/_{2}$, SW $^{1}/_{4}$ SE $^{1}/_{4}$ Section 34.

T.39N., R.08E. Willamette Meridian: Sections 1–12; W½, W½ E½ Section 15; Sections 16–17; S½ SE¼, NE¼ SE¼, SE¼ NE¼ Section 19; Sections 20–21; W½, W½ E½ Section 22.

T.39N., R.09E. Willamette Meridian: $N^{1/2}$ $NW^{1/4}$, $SW^{1/4}$ $NW^{1/4}$, $SW^{1/4}$ $SW^{1/4}$ Section 3; Sections 4–8; Section 9 except $S^{1/2}$ $SE^{1/4}$; Section 10 except $E^{1/2}$ $E^{1/2}$, $NW^{1/4}$ $NE^{1/4}$; $SW^{1/4}$ $NW^{1/4}$ Section 14; $N^{1/2}$ $NE^{1/4}$, $NE^{1/4}$ $NW^{1/4}$, $SE^{1/4}$ $NE^{1/4}$ Section 15; $W^{1/2}$ Section 16; Section 17; $NE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$ Section 18;

 $N^{1/2}$ $NE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$ Section 20; $NW^{1/4}$, $N^{1/2}$ $SW^{1/4}$, $W^{1/2}$ $NE^{1/4}$ Section 21.

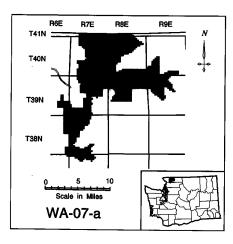
T.40N., R.07E. Willamette Meridian: Sections 1–4; $E^{1/2}$ Section 5; $NE^{1/4}$ Section 8; Section 9 except $SW^{1/4}$ $SW^{1/4}$; Sections 10–15; $E^{1/2}$ Section 16; $SE^{1/4}$, $E^{1/2}$ $SW^{1/4}$ Section 20; $SW^{1/4}$, $E^{1/2}$ Section 21; Sections 22–28; $E^{1/2}$ Section 29; Sections 32–36.

T.40N., R.08E. Willamette Meridian: S½ SW¼ Section 1; Section 2 except NE¼, NE¼ NW¼, NE¼ SE¼; Sections 3–10; Section 11 except SE¼ SW¼, SE¼; N½ NW¼ Section 12; NW¼, N½ NE¼, SW¼ NE¼, NW¼, SW¼ Section 15; Section 16 except S½ SE¼; Sections 17–20; W½ W½, NE¼ NW¼ Section 29; Sections 30–31; S½, W½ NW¼, SE¼ NE¼ Section 32; Sections 33–36.

T.40N., R.09E. Willamette Meridian: SE½ SE½ Section 19; NE½, SE½ NW½ Section 20; Section 29; S½, E½ NE½ Section 30; Sections 31–32; S½ S½, N½ SE¼ Section 33; Section 34 except N½ N½; S½ N½, N½ S½ S½ S½ SW½ SE¼ Section 35.

T.41N., R.07E. Willamette Meridian: Sections 32–36.

T.41N., R.08E. Willamette Meridian: Sections 31-34, $W^{1/2}$ SW $^{1/4}$ Section 35.



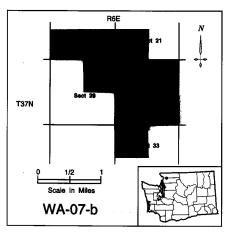
Map and description of WA-07-b taken from United States Fish and Wildlife Service 1:100;000 map; Bellingham, Washington; 1995.

Proposed Critical Habitat includes only State or County lands described within the following areas:

T.37N., R.06E. Willamette Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 20; $NE^{1/4}$ $NE^{1/4}$ Section 28.

Proposed Critical Habitat includes only Private lands described within the following areas:

T.37N., R.06E. Willamette Meridian: N½ SW¼, SE¼ SW¼, SE¼ Section 20; SW¼ Section 21; Section 28 except NE¼ NE¼; NE¼ Section 29: NW¼ Section 33.



Map and description of WA-07-c taken from United States Fish and Wildlife Service 1:100;000 map; Mt Baker and Sauk River, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.35N., R.09E. Willamette Meridian: Section 1; Section 2; $E^{1/2}$ Section 11; Section 12; $NE^{1/4}$ $NE^{1/4}$ Section 13; $N^{1/2}$ $NE^{1/4}$ Section 14

T.35N., R.10E. Willamette Meridian: $SW^{1/4}$ $NW^{1/4}$, $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$ Section 6; Section 7; Section 8 except $N^{1/2}$ $NE^{1/4}$, $NE^{1/4}$ $NW^{1/4}$; $NW^{1/4}$ Section 9; $NW^{1/4}$ $NW^{1/4}$ Section 17; $N^{1/2}$ $N^{1/2}$, $S^{1/2}$ $NW^{1/4}$ Section 18.

T.36N., R.07E. Willamette Meridian: Section 1; $E^{1/2}$ $E^{1/2}$ Section 2; Section 3.

T.36N., R.08E. Willamette Meridian: $W^{1/2}$ W^{1/2} Section 4; Section 5 except $W^{1/2}$ W^{1/2}; $W^{1/2}$ W^{1/2} Section 6.

T.36N., R.09E. Willamette Meridian: Section 1; Section 2; Section 3 except S $^{1}/_{2}$ S $^{1}/_{2}$; Section 4; E $^{1}/_{2}$ Section 5; Section 8 except S $^{1}/_{2}$ SE $^{1}/_{4}$; N $^{1}/_{2}$ SW $^{1}/_{4}$, NW $^{1}/_{4}$ Section 9; E $^{1}/_{2}$ SE $^{1}/_{4}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$ Section 10; Section 11 except N $^{1}/_{2}$ NW $^{1}/_{4}$; Sections 21–21; E $^{1}/_{2}$ Section 16; Sections 21–24; W $^{1}/_{2}$ W $^{1}/_{2}$ Section 26; Section 27 except SW $^{1}/_{4}$, SW $^{1}/_{4}$ SE $^{1}/_{4}$; Section 28 except SW $^{1}/_{4}$ SW $^{1}/_{4}$ SE $^{1}/_{4}$; S $^{1}/_{2}$, W $^{1}/_{2}$ NE $^{1}/_{4}$, E $^{1}/_{2}$ NW $^{1}/_{4}$ Section 33.

T.36N., R.10E. Willamette Meridian: $W^{1/2}$ SW $^{1/4}$ Section 5; S $^{1/2}$ S $^{1/2}$ Section 6; Section 7; $W^{1/2}$ W $^{1/2}$ Section 8; S $^{1/2}$ NW $^{1/4}$, NW $^{1/4}$, SW $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$ Section 17; Sections 18–19; Section 20 except NE $^{1/4}$ NE $^{1/4}$; W $^{1/2}$ SW $^{1/4}$, SW $^{1/4}$ NW $^{1/4}$ Section 21; W $^{1/2}$ W $^{1/2}$, SE $^{1/4}$ SW $^{1/4}$ Section 28; Section 29; Section 30; W $^{1/2}$ W $^{1/2}$, N $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ NW $^{1/4}$ Section 31; N $^{1/2}$ NW $^{1/4}$, NE $^{1/4}$ NE $^{1/4}$ Section 32.

T.37N., R.07E. Willamette Meridian: $S^{1/2}$ SE^{1/4}, NE^{1/4} SEt^{1/4} Section 9; $S^{1/2}$, $S^{1/2}$ NE^{1/4} Section 10; $S^{1/2}$, SE^{1/4} NE^{1/4} Section 11; W^{1/2} SW^{1/4} Section 13; Sections 14–15; Section 16 except NW^{1/4} NW^{1/4}, NE^{1/4} SE^{1/4} Section 17; E^{1/2} W^{1/2}, NW^{1/4} NW^{1/4}, E^{1/2} Section 21; Sections 22–27; E^{1/2}, NE^{1/4} NW^{1/4} Section 28; E^{1/2} E^{1/2}, NW^{1/4} NE^{1/4} Section 33; Sections 34–36.

 $\begin{array}{c} T.37N., R.08E. \ Willamette \ Meridian: \\ Sections \ 1-3; \ SE^{1/4} \ NE^{1/4}, \ N^{1/2} \ NE^{1/4} \ Section \\ 4; \ NE^{1/4} \ SW^{1/4}, \ N^{1/2} \ SE^{1/4}, \ SE^{1/4} \ SE^{1/4}, \ S^{1/2} \\ N^{1/2}, \ NE^{1/4} \ NW^{1/4}, \ NW^{1/4} \ NE^{1/4} \ Section \ 7; \ S^{1/2}, \end{array}$

S½ N½ Section 8; Sections 9–15; Section 16 except S½ SW¼; N½ NW¼, NE¼ Section 17; S½ SW¼ Section 18; Section 19; S½ N½, S½ Section 20; Section 21 except NE¼ NW¼; Sections 22–36.

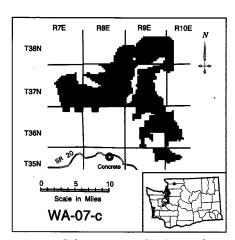
T.37N., R.09E. Willamette Meridian: Section 1 except S1/2 SW1/4; Section 2 except N¹/₂ N¹/₂; S¹/₂ ŜW¹/₄, SE¹/₄, NE¹/₄ SW¹/₄ Section 3; S¹/₂ S¹/₂ Section 4; NW¹/₄, W¹/₂ SW1/4, W1/2 NE1/4, SE1/4 SE1/4 Section 5; Sections 6-7; W¹/₂ NW¹/₄, NW¹/₄ SW¹/₄, E¹/₂ E¹/₂ Section 8; Section 9; Section 10; N¹/₂ N¹/₂, SW¹/₄ NW¹/₄, SW¹/₄ Section 11; W¹/₂ SW1/4 Section 14; Sections 15-16; E1/2 E1/2, W¹/₂ SE¹/₄ Section 17; W¹/₂, W¹/₂ SE¹/₄, N¹/₂ NE1/4, SW1/4 NE1/4 Section 18; Section 19 except NE1/4 NE1/4; E1/2 Section 20; Sections 21-22; W¹/₂ W¹/₂, SE¹/₄ SW¹/₄ Section 23; W1/2 SW1/4, SE1/4 SW1/4 Section 25; W1/2, SE1/4, SW1/4 NE1/4 Section 26; Sections 27-28; SW¹/₄, E¹/₂, S¹/₂ NW¹/₄ Section 29; NW¹/₄, NW1/4 SW1/4, N1/2 NE1/4 Section 30; SE1/4 SW1/4, S1/2 SE1/4, NE1/4 SE1/4 Section 31; Sections 32-35; W¹/₂ Section 36.

T.37N., R.10E. Willamette Meridian: Section 6; N¹/₂ NW¹/₄, Section 7.

T.38N., R.08E. Willamette Meridian: $SE^{1/4}$ SE^{1/4} Section 23; S^{1/2}, S^{1/2} NE^{1/4} Section 24; Section 25; SE^{1/4}, SE^{1/4} SW^{1/4}, S^{1/2} NE^{1/4}, NE^{1/4} NE^{1/4} Section 26; S^{1/2} S^{1/2} Section 33; S^{1/2} S^{1/2}, NE^{1/4} SE^{1/4} Section 34; SW^{1/4}, E^{1/2}, E^{1/2} NW^{1/4} Section 35; Section 36.

T.38N., R.09E. Willamette Meridian: Sections 13–15; Section 16 except N $^{1}/_{2}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$ NW $^{1}/_{4}$; SE $^{1}/_{4}$ SE $^{1}/_{4}$ Section 17; Section 19 except N $^{1}/_{2}$ NV $^{1}/_{2}$; Section 20 except N $^{1}/_{2}$ NW $^{1}/_{4}$, SE $^{1}/_{4}$ NW $^{1}/_{4}$; Section 32 except NW $^{1}/_{4}$; Section 33 except S $^{1}/_{2}$ SE $^{1}/_{4}$; Section 34 except S $^{1}/_{2}$ SI $^{1}/_{2}$; NW $^{1}/_{4}$, NW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 35; SE $^{1}/_{4}$, E $^{1}/_{2}$ NE $^{1}/_{4}$ Section 36.

T.38N., R.10E. Willamette Meridian: Section 18 except $NE^{1/4}$ $NE^{1/4}$; Section 19; Section 30; Section 31.



Map and description of WA-07-d taken from United States Fish and Wildlife Service 1:100;000 map; Cape Flattery, Mt. Baker and Sauk River, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.34N, R.12E. Willamette Meridian: Sections 1–2; Section 3 except SW¹/₄ NW¹/₄, NW¹/4 SW¹/4; NE¹/4 NW¹/4, N¹/2 NE¹/4 Section 10; N¹/2 N¹/2 Section 11; N¹/2 NW¹/4, NW¹/4 NE¹/4 Section 12.

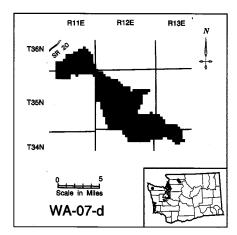
T.34N, R.13E. Willamette Meridian: $W^{1/2}$ Section 4; Section 5; Section 6 except SE¹/₄ SE¹/₄; N¹/₂ NE¹/₄, SE¹/₄ NE¹/₄ Section 8; NW¹/₄, N¹/₂ NE¹/₄ Section 9.

T.35N, R.11E. Willamette Meridian: $N^{1/2}$, $NE^{1/4}$ SE $^{1/4}$ Section 1; $N^{1/2}$, $NW^{1/4}$ SW $^{1/4}$ Section 2; $N^{1/2}$, SW $^{1/4}$ Section 3; Section 4.

T.35N, R.12E. Willamette Meridian: $S^{1/2}$ SW^{1/4}, NW^{1/4} SW^{1/4} Section 5; $S^{1/2}$ NW^{1/4}, SV^{1/2}, SW^{1/4} NE^{1/4}, NW^{1/4} NW^{1/4} Section 6; Sections 7–8; Section 9 except NE^{1/4}, NE^{1/4} SE^{1/4}, NE^{1/4} NW^{1/4}; $S^{1/2}$ SW^{1/4} Section 10; N^{1/2} NW^{1/4}, SW^{1/4} NW^{1/4} Section 13; Section 14 except E^{1/2} SE^{1/4}; Section 15 except NW^{1/4} NE^{1/4}; Sections 16–18; N^{1/2} SE^{1/4}, SE^{1/4} SE^{1/4}, NE^{1/4} Section 29; Sections 20–22; W^{1/2}, W^{1/2} NE^{1/4} Section 23; S^{1/2}, SW^{1/4} NE^{1/4} Section 25; S^{1/2}, N^{1/2} NW^{1/4} Section 26; Sections 27–29; E^{1/2} NE^{1/4}, NE^{1/4} SE^{1/4} Section 30; Section 32 except W^{1/2} SW^{1/4}, SW^{1/4} NW^{1/4}; Sections 33–36.

T.35N, R.13E. Willamette Meridian: $SW^{1/4}$, $SW^{1/4}$ SE^{1/4} Section 30; Section 31 except NE^{1/4} NE^{1/4}; $SW^{1/4}$, S^{1/2} Section 32; $SW^{1/4}$ SW^{1/4} Section 33.

 $T.36N,\,R.11E.$ Willamette Meridian: $S^{1/2}$ $S^{1/2},\,N^{1/2}$ $SE^{1/4}$ Section 23; $SW^{1/4}$ $SW^{1/4}$ Section 24; $W^{1/2},\,W^{1/2}$ E^{1/2} Section 25; Section 26; Section 27 except $N^{1/2}$ $NW^{1/4};$ $SE^{1/4}$ SE^{1/4} Section 28; Sections 33–35; Section 36 except $E^{1/2}$ $NE^{1/4}.$



Map and description of WA-08-a taken from United States Fish and Wildlife Service 1:100;000 map; Bellingham, Mt. Baker and Sauk River, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.32N., R.08E. Willamette Meridian: N $^{1}/_{2}$, N $^{1}/_{2}$ SW $^{1}/_{4}$ Section 1; N $^{1}/_{2}$ Section 3; NW $^{1}/_{4}$, N $^{1}/_{2}$ NE $^{1}/_{4}$ Section 4; N $^{1}/_{2}$ Section 5; N $^{1}/_{2}$ Section 6.

T.33N., R.08E. Willamette Meridian: Sections 1–30; Section 31 except $S^{1/2}$ SE¹/₄; Sections 32–35; Section 36 except $SE^{1/4}$ SW¹/₄, $SE^{1/4}$, $SE^{1/4}$, $SE^{1/4}$, $SE^{1/4}$.

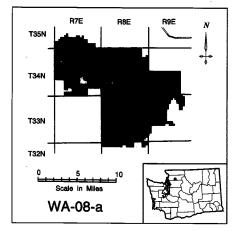
T.33N., R.09E. Willamette Meridian: NW¹/4, SW¹/4 NE¹/4, SW¹/4, W¹/2 SE¹/4 Section 2; Sections 3–10; W¹/2, W¹/2 NE¹/4 Section 11; Sections 15–20; Section 21 except S¹/₂ SW¹/₄; SW¹/₄ SW¹/₄ Section 22; W¹/₂ W¹/₂ Section 30.

T.34N., R.07E. Willamette Meridian: Sections 1–6; Section 7 except NW 1 /4 SE 1 /4, SE 1 /4; Sections 8–21; Section 22 except SW 1 /4; Sections 23–24; Section 25 except SW 1 /4 SE 1 /4; Section 26; S 1 /2 Section 27; Sections 28–29; N 1 /2 NW 1 /4, S 1 /2 Section 32; Section 33; Section 34 except SW 1 /4 NE 1 /4.

T.34N., R.08E. Willamette Meridian: Sections 2–11; Section 12 except N¹/₂ NW¹/₄; Sections 13–28; Section 29 except S¹/₂ NW¹/₄, N¹/₂ SW¹/₄; N¹/₂, NE¹/₄ SE¹/₄, S¹/₂ SE¹/₄, NW¹/₄ SW¹/₄ Section 30: Sections 31–36.

T.34N., R.09E. Willamette Meridian: Sections 19–22; Sections 27–34.

T.35N., R.07E. Willamette Meridian: $S\frac{1}{2}$ SW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 27; S $\frac{1}{2}$, S $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ Section 28; Section 29 except NW $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$; SE $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ Section 30; Sections 31–34; S $\frac{1}{2}$ Section 35.



Map and description of WA-08-b taken from United States Fish and Wildlife Service 1:100;000 map; Sauk River, Washington; 1995.

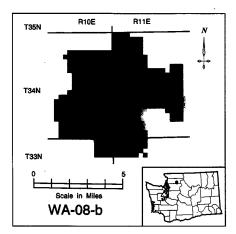
Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.33N., R.10E. Willamette Meridian:

T.33N., R.11E. Willamette Meridian: Section 5 except NE $\frac{1}{4}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$; Section 6.

T.34N., R.10E. Willamette Meridian: $SW^{1/4}$ NE $^{1/4}$, E $^{1/2}$ Section 10; Sections 11–14; NW $^{1/4}$ NE $^{1/4}$, E $^{1/2}$ E $^{1/2}$ Section 15; SE $^{1/4}$ SE $^{1/4}$ Section 21; Section 22 except NW $^{1/4}$, NW $^{1/4}$ NE $^{1/4}$; Sections 23–27; E $^{1/2}$ E $^{1/2}$ Section 28; Sections 34–36.

 $T.34N.,\,R.11E.$ Willamette Meridian: Section 5 except $N^{1/2}$ $N^{1/2},\,E^{1/2}$ $E^{1/2};\,Sections$ 6–7; Section 8 except $NE^{1/4}$ $NE^{1/4};\,S^{1/2}$ $SE^{1/4},\,SE^{1/4}$ $SW^{1/4}$ Section 10; Section 15 except $NW^{1/4}$ $NW^{1/4};\,Sections$ 16–22; Section 27 except $W^{1/2}$ $SW^{1/4};\,N^{1/2}$ $N^{1/2}$ Section 28; $W^{1/2},\,NE^{1/4}$ $NE^{1/4}$ Section 29; Sections 30–31; Section 32 except $E^{1/2}$ $NE^{1/4}.$



Map and description of WA-09-a taken from United States Fish and Wildlife Service 1:100;000 map; Sauk River, Washington; 1995.

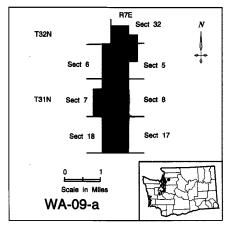
Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.31N., R.07E. Willamette Meridian: NW¹/4, N¹/2 SW¹/4, W¹/2 NE¹/4 Section 5; E¹/2 NE¹/4 Section 6.

T.32N., R.07E. Willamette Meridian: $SW^{1/4}$, $SW^{1/4}$ SE1/4 Section 32.

Proposed Critical Habitat includes only Federal lands designated as Congressionally Withdrawn Areas described within the following areas:

T.31N., R.07E. Willamette Meridian: $S^{1/2}$ SW^{1/4} Section 5; $E^{1/2}$ SE^{1/4} Section 6; Section 7 except W^{1/2}, NW^{1/4} NE^{1/4}; W^{1/2} Section 8; W^{1/2} Section 17; $E^{1/2}$ E^{1/2} Section 18.



Map and description of WA-09-b taken from United States Fish and Wildlife Service 1:100;000 map; Sauk River, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.29N., R.09E. Willamette Meridian: Section 1; N 1 /2 Section 2; Sections 3–6; N 1 /2 Section 7; N 1 /2 Section 8; N 1 /2 Section 9; NW 1 /4 Section 10.

T.29N., R.10E. Willamette Meridian: Sections 1–3; W½ Section 6; Sections 11–13.

 $\begin{array}{c} T.29N., R.11E. \ Willamette \ Meridian: \ N^{1/2} \\ NE^{1/4}, SE^{1/4} \ NE^{1/4}, NE^{1/4} \ NW^{1/4} \ Section \ 3; \\ Sections \ 6-7; SW^{1/4}, S^{1/2} \ SE^{1/4}, NW^{1/4} \ SE^{1/4} \\ Section \ 17; Section \ 18; \ N^{1/2} \ NW^{1/4}, SE^{1/4} \\ NW^{1/4}, NE^{1/4}, NE^{1/4} \ SE^{1/4} \ Section \ 19; \ N^{1/2}, \\ NW^{1/4} \ SW^{1/4} \ Section \ 20. \end{array}$

 $T.30N.,\ R.08E.$ Willamette Meridian: Sections 1–3; $N^{1}\!\!/_2$ Section 4; $N^{1}\!\!/_2$ Section 5; $N^{1}\!\!/_2$ SE½ Section 11; Section 12; Section 13 except $E^{1}\!\!/_2$ SW½, ; $E^{1}\!\!/_2$ E½ Section 14; SW¼ Section 15; $N^{1}\!\!/_2$ NE½ Section 16; Section 17; Section 18 except SW¼ NW¼, $N^{1}\!\!/_2$ SW½; Sections 19–23; Section 24 except NE¼ NW¼; Sections 25–26; $N^{1}\!\!/_2$ Section 27; $N^{1}\!\!/_2$ Section 28; $N^{1}\!\!/_2$ SE½ Section 35.

T.30N., R.09E. Willamette Meridian: N1/2 NW1/4, SE1/4 NW1/4, E1/2 SE1/4, SE1/4, S1/2 NE1/4 Section 1; NE1/4 NE1/4 Section 2; W1/2, NW1/4 NE1/4 Section 6; Section 7; S1/2 NW1/4, S1/2 Section 8; S1/2 SW1/4 Section 10; N1/2 NE1/4 Section 12; SE1/4 SE1/4 Section 13; S1/2 NW1/4, SW1/4, W1/2 SE1/4 Section 14; Section 15 except NE1/4 NW1/4, SE1/4 SE1/4; SE1/4 NW¹/₄, NE¹/₄, SW¹/₄, N¹/₂ SE¹/₄, SW¹/₄ SE¹/₄ Section 16; SE1/4, S1/2 NE1/4 Section 17; W1/2 W1/2, NE1/4 SW1/4, SE1/4 NW1/4 Section 18; Section 19 except E1/2 NE1/4; Section 20 except NE¹/₄ NW¹/₄, SW¹/₄; Section 21; Section 22 except SE1/4 SW1/4; Section 23 except SE1/4 SE1/4, NW1/4 NW1/4; S1/2 NW1/4, SE¹/₄ SW¹/₄, SE¹/₄, SE ¹/₄ NE¹/₄ Section 24; Sections 25-36.

T.30N., R.10E. Willamette Meridian: Sections 1–6; N 1 /z, NE 1 /4 SE 1 /4 Section 7; Section 8 except SW 1 /4 SW 1 /4; Sections 9–17; E 1 /2 E 1 /2 Section 18; Section 19 except N 1 /2 NW 1 /4, NE 1 /4; Sections 20–28; Section 29 except S 1 /2 S 1 /2; Section 30 except S 1 /2 SE 1 /4; Section 31 except NE 1 /4; NE 1 /4 NE 1 /4 Section 32; NE 1 /4, E 1 /2 SE 1 /4, NE 1 /4 NW 1 /4 Section 33; Sections 34–36.

T.30N., R.11E. Willamette Meridian: $SW^{1/4}$ $SE^{1/4}$, $S^{1/2}$ $SW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$ Section 5; Sections 6–7; Section 8 except $NE^{1/4}$ $NE^{1/4}$; $N^{1/2}$ $SE^{1/4}$, $SE^{1/4}$ $SE^{1/4}$, $NE^{1/4}$ $SW^{1/4}$ Section 9; Section 10 except $N^{1/2}$ $NW^{1/4}$, $SW^{1/4}$ $NW^{1/4}$, $NW^{1/4}$, $SE^{1/4}$; Section 15 except $SE^{1/4}$ $SE^{1/4}$; Sections 16–22; $NW^{1/4}$ $NW^{1/4}$ Section 27; Section 28 except $E^{1/2}$ $SE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$; Sections 29–31; Section 32 except $SE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$, $NE^{1/4}$ $NW^{1/4}$; Section 33 except $SW^{1/4}$, $SW^{1/4}$ $NW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$; Section 34 except $NE^{1/4}$, $N^{1/2}$ $NW^{1/4}$, $SE^{1/4}$ $NW^{1/4}$, $NE^{1/4}$ $SE^{1/4}$.

T.31N., R.07E. Willamette Meridian: Sections 12–13.

T.31N., R.08E. Willamette Meridian: W½ SW¼ Section 3; S½, S½ NE¼ Section 4; S½ Section 5; SE¼ SE¼ Section 6; Section 7 except N½ NW¼, NW¼ NE¼; Section 8 except SE¼, N½ N½, NW¼ SW¼ Section 9; N½ NW¼, SW¼ NW¼, SW¼, SW¼ Section 17; Sections 18–21; Section 22 except N½ NE¼; SY½ NW¼, SW¼, W½ SE¼ Section 23; Section 25 except N½ NE¼; S½ NW¼, SW¼, W½ SE¼ Section 23; Section 25 except N½ NE¼; SE¼ Section 25 except N½ NE¼; Section 26–36.

T.31N., R.09E. Willamette Meridian: Section 1; $E^{1}/_2$ NE $^{1}/_4$ Section 2; SE $^{1}/_4$, $E^{1}/_2$ NE $^{1}/_4$ Section 3; SE $^{1}/_4$ NW $^{1}/_4$, NE $^{1}/_4$ SW $^{1}/_4$, W $^{1}/_2$ NE $^{1}/_4$ Section 10; S $^{1}/_2$ SE $^{1}/_4$, NE $^{1}/_4$ SE $^{1}/_4$, NE $^{1}/_4$ SE $^{1}/_4$, NE $^{1}/_4$ Section 12; Section 13 except NW $^{1}/_4$, W $^{1}/_2$ SW $^{1}/_4$; Section 23 except NW $^{1}/_4$, NW $^{1}/_4$ NE $^{1}/_4$, W $^{1}/_2$ SW $^{1}/_4$, SW $^{1}/_4$ NW $^{1}/_4$; Sections 24–26; S $^{1}/_2$ Section 27; NE $^{1}/_4$ SE $^{1}/_4$ Section 28; W $^{1}/_2$ Section 31; NE $^{1}/_4$

 $NW^{1/4}$, $S^{1/2}$ $SE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$, $N^{1/2}$ $NE^{1/4}$ Section 35; Section 36.

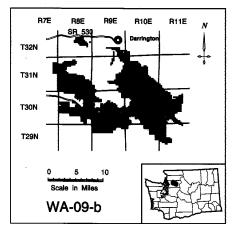
T.31N., R.10E. Willamette Meridian: Section 6 except $E^{1/2}$ $E^{1/2}$; Sections 7–8; $S^{1/2}$ $NW^{1/4}$, $SW^{1/4}$, $W^{1/2}$ $SE^{1/4}$, $NW^{1/4}$ $NW^{1/4}$ Section 9; $SE^{1/4}$ $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$ Section 10; Sections 15–22; $S^{1/2}$ $SW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$ Section 23; $SW^{1/4}$, $S^{1/2}$ $SE^{1/4}$, $SW^{1/4}$ $NW^{1/4}$ Section 25; Sections 26–36.

T.31N., R.11E. Willamette Meridian: $SW^{1/4}$ $NW^{1/4}$, $SW^{1/4}$ Section 31.

T.32N., R.08E. Willamette Meridian: $SW^{1/4}$ Section 14; $S^{1/2}$ Section 15; $E^{1/2}$ NE $^{1/4}$ Section 21; N $^{1/2}$ SE $^{1/4}$ Section 22; Section 23 except NE $^{1/4}$ NE $^{1/4}$; E $^{1/2}$ SW $^{1/4}$, SE $^{1/4}$ NE $^{1/4}$ Section 24; NW $^{1/4}$ NW $^{1/4}$ Section 25.

 $\begin{array}{c} T.32N., R.09E. \ Willamette \ Meridian: S^{1/2} \\ Section \ 26; \ N^{1/2} \ S^{1/2}, \ S^{1/2} \ SE^{1/4} \ Section \ 27; \\ N^{1/2} \ SE^{1/4} \ Section \ 28; \ SE^{1/4} \ NE^{1/4}, \ E^{1/2} \ SE^{1/4} \\ Section \ 34; \ E^{1/2}, \ NE^{1/4} \ NW^{1/4} \ Section \ 35; \\ Section \ 36 \ except \ SW^{1/4} \ NE^{1/4}. \end{array}$

T.32N., R.10 \vec{E} . Willamette Meridian: Section 31 except E½ E½, NW¼ NE¼, NE¼ NW¼.



Map and description of WA-09-c taken from United States Fish and Wildlife Service 1:100;000 map; Sauk River and Skykomish River, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.27N., R.09E. Willamette Meridian: $NE^{1/4}$ $NW^{1/4}$, $N^{1/2}$ $NE^{1/4}$ Section 1.

T.27N., R.10E. Willamette Meridian: $NW^{1/4}$ $NW^{1/4}$ Section 6.

T.28N., R.09E. Willamette Meridian: $N^{1/2}$ NE^{1/4} Section 3; $S^{1/2}$ S^{1/2} Section 23; $S^{1/2}$ S^{1/2} Section 24; Section 25 except $S^{1/2}$ SW^{1/4}, SW^{1/4} SE^{1/4}; Section 26 except N^{1/2} N^{1/2}, S^{1/2} S^{1/2}; SE^{1/4} SW^{1/4}, S^{1/2} SE^{1/4}, NE^{1/4} SE^{1/4} Section 36.

T.28N., R.10E. Willamette Meridian: $S^{1/2}$ Section 19; Section 20 except $NW^{1/4}$ $NW^{1/4}$, $NE^{1/4}$ $NE^{1/4}$; $NW^{1/4}$ Section 21; $S^{1/2}$ SW^{1/4}, $SW^{1/4}$ Set^{1/4} Section 24; $NW^{1/4}$, $NW^{1/4}$ NE^{1/4} Section 25; $S^{1/2}$ $NW^{1/4}$, $N^{1/2}$ SW^{1/4}, $NU^{1/4}$ SE^{1/4}, $NE^{1/4}$ Section 26; $S^{1/2}$ $N^{1/2}$, $N^{1/2}$ S^{1/2} Section 27; $NW^{1/4}$ NW^{1/4} Section 29; $NW^{1/4}$, $W^{1/2}$ SW^{1/4}, $W^{1/2}$ NE^{1/4} NE^{1/4} Section 30; Section 31 except $SW^{1/4}$ $NW^{1/4}$; $NW^{1/4}$, $W^{1/2}$ SW^{1/4}, $NE^{1/4}$ SW^{1/4}, $SW^{1/4}$ $W^{1/4}$ Section 32.

T.29N., R.08E. Willamette Meridian: S½ SE¼ Section 22; NE¼ SE¼ Section 25; NW¼, N½ NE¼, SW¼ NE¼ Section 27.

 $T.29N.,\,R.09E.$ Willamette Meridian: $S^{1/2}$ $NW^{1/4},\,N^{1/2}$ $SW^{1/4}$ Section 29; $S^{1/2}$ $SW^{1/4},\,SW^{1/4}$ $SE^{1/4},\,N^{1/2}$ $S^{1/2},\,S^{1/2}$ $NE^{1/4},\,SE^{1/4}$ $NW^{1/4}$ Section 30; $S^{1/2}$ $SE^{1/4}$ Section 34.

Proposed Critical Habitat includes only State or County lands described within the following areas:

T.27N., R.09E. Willamette Meridian: NW $^{1}/_{4}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$ Section 2; N $^{1}/_{2}$ NW $^{1}/_{4}$, SE $^{1}/_{4}$ NW $^{1}/_{4}$, E $^{1}/_{2}$ Section 3; NE $^{1}/_{4}$ NE $^{1}/_{4}$ Section 4; N $^{1}/_{2}$ NE $^{1}/_{4}$ Section 10; S $^{1}/_{2}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ Section 11; Section 12 except NW $^{1}/_{4}$ NW $^{1}/_{4}$; Section 13; Section 14 except SW $^{1}/_{4}$, NE $^{1}/_{4}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$, SW $^{1}/_{4}$ SE $^{1}/_{4}$; NE $^{1}/_{4}$, NE $^{1}/_{4}$ NW $^{1}/_{4}$ Section 24.

T.27N., R.10E. Willamette Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 3; $S^{1/2}$ $SE^{1/4}$ Section 4; $SE^{1/4}$ $SW^{1/4}$, $S^{1/2}$ $SE^{1/4}$ Section 6; Section 7; Section 8 except $N^{1/2}$ $N^{1/2}$; Section 9; $NW^{1/4}$, $W^{1/2}$ $SW^{1/4}$ Section 10; $N^{1/2}$, $N^{1/2}$ $S^{1/2}$, $SE^{1/4}$ $SE^{1/4}$ Section 16; Section 17 except $S^{1/2}$ $SE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$; Section 18; $N^{1/2}$ $NW^{1/4}$ Section 19.

T.28N., R.08E. Willamette Meridian: Section 3 except N $^{1}/_{2}$ NW $^{1}/_{4}$; Sections 4–5; W $^{1}/_{2}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$, SW $^{1}/_{4}$ Section 6; Section 7 except NE $^{1}/_{4}$ NE $^{1}/_{4}$; NW $^{1}/_{4}$ NW $^{1}/_{4}$ SE $^{1}/_{4}$ SeV $^{1}/_{4}$ NW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 8; W $^{1}/_{2}$ W $^{1}/_{2}$, NE $^{1}/_{4}$ NE $^{1}/_{4}$ SeCtion 8; NW $^{1}/_{4}$ NE $^{1}/_{4}$ SeCtion 9; Section 10; W $^{1}/_{2}$ EV $^{1}/_{2}$ Section 11; W $^{1}/_{2}$ Section 14; Section 15; S $^{1}/_{2}$ S $^{1}/_{2}$, E $^{1}/_{2}$ NE $^{1}/_{4}$, W $^{1}/_{2}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$ NW $^{1}/_{4}$ Section 16; Section 17 except E $^{1}/_{2}$ NW $^{1}/_{4}$; Section 18 except SW $^{1}/_{4}$; NE $^{1}/_{4}$ SE $^{1}/_{4}$ Section 19; W $^{1}/_{2}$ SE $^{1}/_{4}$ Section 20; N $^{1}/_{2}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ NW $^{1}/_{4}$ NSection 29; NE $^{1}/_{4}$ NW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 36.

T.28N., R.09E. Willamette Meridian: Sections 1–2; Section 3 except N $^{1}/_{2}$ NE $^{1}/_{4}$; Section 4; SE $^{1}/_{4}$ Section 5; NE $^{1}/_{4}$ Section 8; Section 9 except SW $^{1}/_{4}$; Sections 10–11; Section 12 except SE $^{1}/_{4}$, S $^{1}/_{2}$ SW $^{1}/_{4}$; N $^{1}/_{2}$ S $^{1}/_{2}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$ Section 13; Section 14 except SE $^{1}/_{4}$ Se $^{1}/_{4}$; Section 15 except SW $^{1}/_{4}$; Sections 16–17; S $^{1}/_{2}$ Section 20; Section 21; Sections 27–28; Section 29 except NW $^{1}/_{4}$, N $^{1}/_{2}$ SW $^{1}/_{4}$; N $^{1}/_{2}$ NW $^{1}/_{4}$, SE $^{1}/_{4}$, SE $^{1}/_{4}$, NE $^{1}/_{4}$ Section 31; N $^{1}/_{2}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ Section 32; Section 33 except SW $^{1}/_{4}$ SW $^{1}/_{4}$; Section 34 except NE $^{1}/_{4}$ SE $^{1}/_{4}$; SW $^{1}/_{4}$ Section 35.

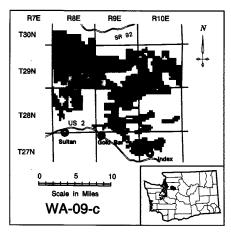
T.28N., R.10E. Willamette Meridian: $W^{1/2}$ Section 2; Section 3; Section 4 except $N^{1/2}$ NE^{1/4}, SW^{1/4} NE^{1/4}; Sections 5–6; NW^{1/4} Section 7; SW^{1/4} NW^{1/4}, NW^{1/4} SW^{1/4} Section 18.

T.29N., R.08E. Willamette Meridian: Sections 1–21; Section 22 except S $^{1}/_{2}$ SE $^{1}/_{4}$; Section 23 except S $^{1}/_{2}$ SW $^{1}/_{4}$; Section 24; N $^{1}/_{2}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ SY $^{1}/_{2}$ Section 25; S $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ SE $^{1}/_{4}$, SW $^{1}/_{4}$, SV $^{1}/_{4}$ SE $^{1}/_{4}$, NV $^{1}/_{4}$ NE $^{1}/_{4}$ Section 26; Section 27 except NW $^{1}/_{4}$, NV $^{1}/_{4}$ NEV $^{1}/_{4}$, NW $^{1}/_{4}$, NW $^{1}/_{4}$, NEV $^{1}/_{4}$, NWV $^{1}/_{4}$, NEV $^{1}/_{4}$, NWV $^{1}/_{4}$, NEV $^{1}/_{4}$, NWV $^{1}/_{4}$, NEV $^{1}/_{4}$ Section 32; Sections 33–34; Section 35 except SE $^{1}/_{4}$ SWV $^{1}/_{4}$, SWV $^{1}/_{4}$ SEV $^{1}/_{4}$, SWV $^{1}/_{4}$ SEV $^{1}/_{4}$, SWV $^{1}/_{4}$ SEV $^{1}/_{4}$; Section 36.

T.29N., R.09E. Willamette Meridian: S½ Section 2; S½ Section 7; S½ Section 8; S½ Section 9; Section 11; Section 12 except NE¼ SE¼; Section 13 except S½ SW¼; Sections 14–19; Section 20 except $S\frac{1}{2}SE\frac{1}{4}$, $SE\frac{1}{4}$ SW $\frac{1}{4}$; Section 21 except $S\frac{1}{2}$ S $\frac{1}{2}$; Section 22 except $S\frac{1}{2}$ S $\frac{1}{2}$; NW $\frac{1}{4}$, WV $\frac{1}{2}$ NE $\frac{1}{4}$; Section 23; N $\frac{1}{2}$ NE $\frac{1}{4}$ Section 24; Section 25 except N $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$; Section 26 except N $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 30; W $\frac{1}{2}$, W $\frac{1}{2}$ SU $\frac{1}{2}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 31; Section 32 except W $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$, SU $\frac{1}{4}$ SE $\frac{1}{4}$, SU $\frac{1}{4}$ Section 33; NE $\frac{1}{4}$ Section 34; Section 35; Section 36 except NE $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{$

T.29N., R.10E. Willamette Meridian: $SE^{1/4}$ SW¹/₄, S¹/₂ SE¹/₄, NE¹/₄ SE¹/₄ Section 6; NW¹/₄, N¹/₂ SW¹/₄, SE¹/₄ SW¹/₄, NW¹/₄ SE¹/₄, S¹/₂ SE¹/₄, N¹/₂ NE¹/₄ Section 7; Section 8; S¹/₂ SW¹/₄, SW¹/₄ SE¹/₄ Section 9; Section 10 except SE¹/₄ SW¹/₄; Section 14; Section 15 except N¹/₂ NW¹/₄, NW¹/₄ NE¹/₄; Section 16; SE¹/₄, E¹/₂ NE¹/₄ Section 17; Sections 18–19; W¹/₂ SW¹/₄, E¹/₂ E¹/₂ Section 20; Sections 21–24; Section 25 except SE¹/₄ SE¹/₄; Section 26 except NW¹/₄ SW¹/₄; SW¹/₄ SW¹/₄ SW¹/₄ Section 27; Sections 28–33; SW¹/₄ NW¹/₄, W¹/₂ SW¹/₄, SE¹/₄ Section 36; except S¹/₂ SW¹/₄.

T.30N., R.10E. Willamette Meridian: S½ Section 27; S½ Section 28; Sections 27–34; SW¼ Section 35; Section 36.



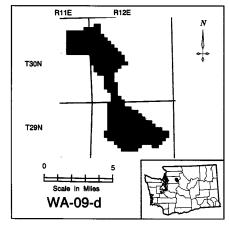
Map and description of WA-09-d taken from United States Fish and Wildlife Service 1:100;000 map; Sauk River, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.29N., R.12E. Willamette Meridian: SW 1 /4 SE 1 /4, SW 1 /4 Section 3; Section 4 except N 1 /2 NE 1 /4; Section 5 except W 1 /2 W 1 /2; Section 8 except W 1 /2 W 1 /2; Section 9; Section 10; SW 1 /4, S 1 /2 SE 1 /4, NW 1 /4 SE 1 /4, S 1 /2 NW 1 /4 Section 11; SW 1 /4 SW 1 /4 Section 12; Section 13 except E 1 /2 NE 1 /4, SE 1 /4, SE 1 /4 SW 1 /4; Sections 14–16; Section 17 except SW 1 /4 SE 1 /4, S 1 /2 SW 1 /4, NW 1 /4 SW 1 /4; Section 21 except S 1 /2, SW 1 /4 NW 1 /4; NW 1 /4, NW 1 /4 NE 1 /4 Section 22; N 1 /2 NE 1 /4 Section 23.

T.30N., R.11E. Willamette Meridian: $S^{1/2}$ SW^{1/4}, SE^{1/4} Section 1; $S^{1/2}$ S^{1/2} Section 2; Sections 11–12; $N^{1/2}$ Section 13; $N^{1/2}$ Section 14.

T.30N., R.12E. Willamette Meridian: Section 6 except N $^{1}/_{2}$ NE $^{1}/_{4}$, NW $^{1}/_{4}$; Section 7; SW $^{1}/_{4}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$ SeV $^{1}/_{4}$ Section 8; SW $^{1}/_{4}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$ Section 16; Sections 17–18; N $^{1}/_{2}$ NW $^{1}/_{4}$, E $^{1}/_{2}$, SE $^{1}/_{4}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ SW $^{1}/_{4}$ Section 19; Section 20 except SE $^{1}/_{4}$ SE $^{1}/_{4}$; NV $^{1}/_{4}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$, NE $^{1}/_{4}$ Section 21; Section 29 except E $^{1}/_{2}$ NE $^{1}/_{4}$; NE $^{1}/_{4}$ NW $^{1}/_{4}$, E $^{1}/_{2}$ Section 32; W $^{1}/_{2}$ SW $^{1}/_{4}$, SE $^{1}/_{4}$ SW $^{1}/_{4}$ Section 33.



Map and description of WA-09-e taken from United States Fish and Wildlife Service 1:100;000 map; Sauk River, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.31N., R.11E. Willamette Meridian: $N^{1/2}$ $N^{1/2}$ Section 1; $S^{1/2}$ $NW^{1/4}$, $NW^{1/4}$ $NW^{1/4}$, $SW^{1/4}$, $N^{1/2}$ $NE^{1/4}$ Section 2; Section 3; Section 4 except $SE^{1/4}$ $SE^{1/4}$; $NE^{1/4}$ $NW^{1/4}$, $N^{1/2}$ $NE^{1/4}$ $NE^{1/4}$ Section 5; $NE^{1/4}$ $NW^{1/4}$, $N^{1/2}$ $NE^{1/4}$ Section 10; $W^{1/2}$ $SE^{1/4}$, $SW^{1/4}$ $NE^{1/4}$, $NW^{1/4}$, $SW^{1/4}$ Section 11; $W^{1/2}$, $W^{1/2}$ $NE^{1/4}$, $SE^{1/4}$ Section 14; $E^{1/2}$ Section 15; $N^{1/2}$ $NE^{1/4}$ Section 22; $N^{1/2}$ $NW^{1/4}$ Section 23.

T.31N., R.12E. Willamette Meridian: $N^{1/2}$ $NW^{1/4}$, $SW^{1/4}$ $NW^{1/4}$, $NW^{1/4}$ $NE^{1/4}$ Section 5; $N^{1/2}$ $NW^{1/4}$, $NE^{1/4}$ Section 6.

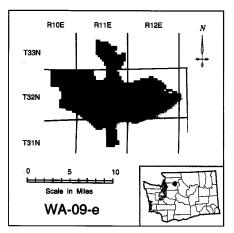
T.32N., R.10E. Willamette Meridian: Sections 1–3; Sections 10–13; Section 14 except SW 1 /4 SW 1 /4; N 1 /2 N 1 /2 Section 15; Section 23 except W 1 /2 NW 1 /4, NW 1 /4 SW 1 /4; Sections 24–25; Section 26 except S 1 /2 SW 1 /4, SW 1 /4 SE 1 /4; N 1 /2 NE 1 /4, NE 1 /4 NW 1 /4 Section 36.

 $T.32N.,\,R.11E.$ Willamette Meridian: $NE^{1/4}$ $NE^{1/4}$ Section 2; $E^{1/2}$ Section 3; Sections 5–8; $S^{1/2}$ Section 9; Section 10 except $NW^{1/4}$ $NW^{1/4};$ Section 11; $SW^{1/4},\,S^{1/2}$ $SE^{1/4},\,W^{1/2}$ $NW^{1/4}$ Section 12; Sections 13–30; $N^{1/2},\,NE^{1/4}$ $SW^{1/4},\,SE^{1/4}$ Section 31; Section 32–36.

T.32N., R.12E. Willamette Meridian: $S^{1/2}$ $S^{1/2}$, $NE^{1/4}$ $SE^{1/4}$ Section 7; $S^{1/2}$, $S^{1/2}$ $NE^{1/4}$ Section 8; Section 9 except $N^{1/2}$ $NW^{1/4}$; Section 10 except $N^{1/2}$ $NW^{1/4}$, $NE^{1/4}$; $SW^{1/4}$ Section 13; $SW^{1/4}$, $S^{1/2}$ $NW^{1/4}$, $NW^{1/4}$ $NW^{1/4}$, $S^{1/2}$ SE^{1/4} Section 14; Section 15–23; Section 24 except $NE^{1/4}$ $NE^{1/4}$; $NW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$ Section 34; $N^{1/2}$ $NW^{1/4}$, $SW^{1/4}$, $SW^{1/4}$ $NW^{1/4}$ $NW^{1/4}$ Section 35.

T.32N., R.13E. Willamette Meridian: $W^{1/2}$ SW $^{1/4}$, SW $^{1/4}$ NW $^{1/4}$ Section 24.

T.33N., R.11E. Willamette Meridian: $S^{1/2}$ SW¹/₄ Section 15; SW¹/₄, S¹/₂ SE¹/₄ Section 16; Section 21; Section 22 except NE¹/₄ NE¹/₄; S¹/₂ NW¹/₄, N¹/₂ SW¹/₄, SW¹/₄ SW¹/₄ Section 23; W¹/₂ Section 27; Section 26 except N¹/₂ NE¹/₄; Section 27; NE¹/₄, N¹/₂ SE¹/₄, SE¹/₄ SE¹/₄, N¹/₂ NW¹/₄, SE¹/₄ NW¹/₄ Section 28; Section 34 except W¹/₂ SW¹/₄; Section 35; W¹/₂ NW¹/₄ Section 36.



Map and description of WA-10-a taken from United States Fish and Wildlife Service 1:100;000 map; Skykomish River, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.26N., R.09E. Willamette Meridian: $NW^{1/4}$ $NW^{1/4}$ Section 6.

T.26N., R.10E. Willamette Meridian: NW¹/₄ SW¹/₄ Section 4; NW¹/₄ NW¹/₄, E¹/₂ NW¹/₄, NE¹/₄ SE¹/₄, NE¹/₄ Section 5; Section 7 except N¹/₂ N¹/₂, NE¹/₄ SE¹/₄, SE¹/₄ NE¹/₄; SW¹/₄ SE¹/₄, E¹/₂ Setion 8; Section 9 except N¹/₂ N¹/₂ NW¹/₄; S¹/₂ Section 13; Section 14 except N¹/₂ NE ¹/₄; Sections 15–16; Section 17 except NW ¹/₄ NW ¹/₄; Sections 18–19; NE¹/₄ NW¹/₄, E¹/₂ SE¹/₄, NE¹/₄ Section 20; Sections 21–23; Section 24 except E¹/₂ NW¹/₄, NW¹/₄ SW¹/₄, NW¹/₄ Section 26; N¹/₂ NE¹/₄ Section 25; NE¹/₄ NW¹/₄ Section 26; N¹/₂ N¹/₂ Section 27; N¹/₂ N¹/₂ Section 28; N¹/₂ NE¹/₄ Section 29; NW¹/₄, N¹/₂ SW¹/₄, W¹/₂ NE¹/₄, NE¹/₄ NE¹/₄ Section 30.

T.26N., R.11E. Willamette Meridian: Section 2; Section 4 except SW $^{1}/_{4}$ SW $^{1}/_{4}$; Section 5 except SE $^{1}/_{4}$ SE $^{1}/_{4}$; Sections 6–7; NW $^{1}/_{4}$, W $^{1}/_{2}$ SW $^{1}/_{4}$, NE $^{1}/_{4}$ SW $^{1}/_{4}$, NW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 9; Section 18 except NW $^{1}/_{4}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$ SW $^{1}/_{4}$, E $^{1}/_{2}$ SE $^{1}/_{4}$, S $^{1}/_{2}$ NE $^{1}/_{4}$; E $^{1}/_{2}$ Section 19; SW $^{1}/_{4}$ NW $^{1}/_{4}$ Section 20; N $^{1}/_{2}$ N $^{1}/_{2}$ Section 30.

T.27N., R.09E. Willamette Meridian: S½
SE¼ Section 19; SW¼ SW¼ Section 20;
Section 30 except N½ NW¼, SW¼ NW¼;
Section 31; Section 32 except SE¼, E½
NE¼.

T.27N., R.10E. Willamette Meridian: Section 1 except W $^{1}/_{2}$ NW $^{1}/_{4}$; E $^{1}/_{2}$, NE $^{1}/_{4}$ SW $^{1}/_{4}$ Section 11; Sections 12–13; N $^{1}/_{2}$ NW $^{1}/_{4}$, E $^{1}/_{2}$ Section 14; N $^{1}/_{2}$, NE $^{1}/_{4}$ SW $^{1}/_{4}$, SE $^{1}/_{4}$ Section 23; Section 24; N $^{1}/_{2}$ N $^{1}/_{2}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$ Section 25; SE $^{1}/_{4}$ SW $^{1}/_{4}$, E $^{1}/_{2}$ Section 26; S $^{1}/_{2}$ S $^{1}/_{2}$ Section 29; SE $^{1}/_{4}$ SE $^{1}/_{4}$ Section 30; E $^{1}/_{2}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ SE $^{1}/_{4}$, NE $^{1}/_{4}$ Section 31; Section

32; Section 35 except SW¹/₄ SW¹/₄; Section 36.

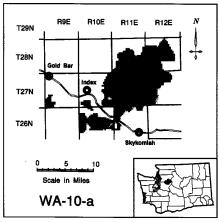
T.27N., R.11E. Willamette Meridian: Sections 1–11; Section 12 except NE¹/₄ SE¹/₄, SE¹/₄ NE¹/₄; Sections 13–20; NW¹/₄, N¹/₂ SW¹/₄, E¹/₂ SE¹/₄, NW¹/₄ SE¹/₄, SW¹/₄ SW¹/₄ Section 21; Section 22 except SW¹/₄ NW¹/₄; Sections 23–36.

T.27N., R.12E. Willamette Meridian: $W^{1/2}$ SW^{1/4}, SE^{1/4} SW^{1/4} Section 2; Section 3 except N^{1/2} NE^{1/4}; Sections 4–6; Section 7 except W^{1/2} SW^{1/4}; Sections 8–10; NW^{1/4}, W^{1/2} SW^{1/4} Section 11; N^{1/2}, W^{1/2} SW^{1/4}, NE^{1/4} SW^{1/4} Section 16; Sections 17–19; W^{1/2} Section 20; W^{1/2}, SW^{1/4} NE^{1/4}, NW^{1/4} SE^{1/4} Section 29; Sections 30–31; W^{1/2} NW^{1/4}, NW^{1/4} SW^{1/4} Section 32.

T.28N., R.10E. Willamette Meridian: SE¹/₄ SE¹/₄ Section 36.

T.28N., R.11E. Willamette Meridian: $S^{1/2}$ SE¹/₄ Section 9; SW¹/₄ SW¹/₄ Section 10; SE¹/₄ Section 12; Section 13 except W¹/₂ SW¹/₄, NW¹/₄; Section 15 except NE¹/₄ NE¹/₄; Section 16 except N¹/₂ NW¹/₄; S¹/₂ SE¹/₄ NW¹/₄, S¹/₂ NE¹/₄ Section 17; SE¹/₄ SE¹/₄ Section 19; Section 20 except SW¹/₄ NW¹/₄, NW¹/₄ SW¹/₄; Sections 21–22; Section 23 except NE¹/₄ NW¹/₄; Section 31 except N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄; Section 31 except N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄; Sections 32–36.

T.28N., R.12E. Willamette Meridian: SW $^{1/4}$ NW $^{1/4}$, SW $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$ Section 3; SW $^{1/4}$ SE $^{1/4}$, E $^{1/2}$ SE $^{1/4}$ Section 4; Section 7 except N $^{1/2}$ NV $^{1/2}$; SW $^{1/4}$, W $^{1/2}$ SE $^{1/4}$, SE $^{1/4}$ SE $^{1/4}$ Section 8; Section 9 except W $^{1/2}$ NW $^{1/4}$; Section 10 except NE $^{1/4}$ NE $^{1/4}$; SW $^{1/4}$ SW $^{1/4}$ SW $^{1/4}$ SW $^{1/4}$ NW $^{1/4}$ Section 11; W $^{1/2}$ NW $^{1/4}$, SW $^{1/4}$, W $^{1/2}$ SE $^{1/4}$ NW $^{1/4}$ Section 14; Sections 15–23; N $^{1/2}$ Section 26; N $^{1/2}$ Section 27; W $^{1/2}$, N $^{1/2}$ NE $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$ Section 28; Sections 29–32; W $^{1/2}$, W $^{1/2}$ E $^{1/2}$, SE $^{1/4}$ SE $^{1/4}$ Section 33.



Map and description of WA-10-b taken from United States Fish and Wildlife Service 1:100;000 map; Skykomish River, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $T.25N.,\,R.10E.$ Willamette Meridian: Section 3 except N½ NE½, SW¼ SW¼, NE¼ NW¼; Sections 4 except SE¼ SE¼; Section 5 except NW¼ NW¼, NW¼, NW¼ NE¼; S½, SE¼ NE¼ Section 6; Sections 7–8; Section 9 except NW¼ SW¼, NE¼, E½

SE¹/₄, SW¹/₄ SE¹/₄; NE¹/₄ NE¹/₄ Section 10; S¹/₂ S¹/₂, N¹/₂ SW¹/₄, N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄ Section 16; Section 17; N¹/₂, E¹/₂ SE¹/₄ Section 18; NE¹/₄ NE¹/₄ Section 20; N¹/₂ N¹/₂, SW¹/₄ NW¹/₄, S¹/₂ NE¹/₄ Section 21; W¹/₂ NW¹/₄, N¹/₂ SW¹/₄, SE¹/₄ NW¹/₄, SW¹/₄ NE¹/₄ Section 22; SW¹/₄ SW¹/₄ Section 23; W¹/₂ SW¹/₄, SE¹/₄ SW¹/₄ Section 25; NW¹/₄, N¹/₂ SE¹/₄, SE¹/₄ SE¹/₄, S¹/₂ NE¹/₄, NW¹/₄ NE¹/₄ Section 26; NE¹/₄ Section 27;

T.25N., R.11E. Willamette Meridian: Sections 1–4; Sections 9–12; $N^{1}/_{2}$, $NW^{1}/_{4}$ SE $^{1}/_{4}$ Section 13; $N^{1}/_{2}$, $N^{1}/_{2}$ Section 14; Section 15; $N^{1}/_{2}$, $NW^{1}/_{4}$ SW $^{1}/_{4}$ Section 16; $N^{1}/_{2}$ SE $^{1}/_{4}$, SW $^{1}/_{4}$ SE $^{1}/_{4}$, SE $^{1}/_{4}$ SW $^{1}/_{4}$ Section 17; SE $^{1}/_{4}$ SW $^{1}/_{4}$, $NW^{1}/_{4}$ SE $^{1}/_{4}$, SV $^{1}/_{4}$, $NE^{1}/_{4}$ NE $^{1}/_{4}$ Section 19; $N^{1}/_{2}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$, NW $^{1}/_{4}$ Section 20; E $^{1}/_{2}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ SW $^{1}/_{4}$, E $^{1}/_{2}$ Section 22; W $^{1}/_{2}$ NW $^{1}/_{4}$ Section 23; NE $^{1}/_{4}$ SW $^{1}/_{4}$, W $^{1}/_{2}$ NE $^{1}/_{4}$ Section 27.

T.25N., R.12E. Willamette Meridian: Sections 1–4; Section 5 except W½ W½; W½ Section 6; Section 7; Section 8 except NE½ NW½; Section 9; Section 10 except SE¼ SE¼; Section 11–12; N½, N½ S½ Section 13; N½ NE¼, NE¼ NW¼, SE¼ NE¼ NE¼ NE¼ NE¼ Sections 16–20; NW¼, W½ SW¼, NW¼ NE¼ Section 21; N½, NW¼ SE¼ Section 29; E½ NE¼ Section 31.

T.25N., R.13E. Willamette Meridian: $NW^{1/4}$ Section 6; $W^{1/2}$, $W^{1/2}$ E^{1/2} Section 7; $W^{1/2}$, $NW^{1/4}$ SE^{1/4}, $SW^{1/4}$ NE^{1/4} Section 18; $NW^{1/4}$, $N^{1/2}$ SW^{1/4}, $SW^{1/4}$ SW^{1/4} Section 19.

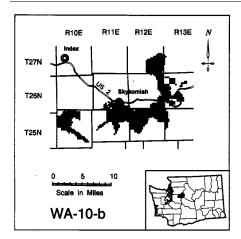
T.26N., R.11E. Willamette Meridian: $W^{1/2}$ SW^{1/4} Section 27; S^{1/2} SE^{1/4}, E^{1/2} SW^{1/4}, NE^{1/4} SE^{1/4} Section 28; S^{1/2} SW^{1/4}, E^{1/2} Section 32; NE^{1/4} NW^{1/4}, SW^{1/4} NW^{1/4}, N^{1/2} SW^{1/4}, NE^{1/4} Section 33; Sections 34–35; S^{1/2} Section 36.

T.26N., R.12E. Willamette Meridian: Section 1; NE¹/4, E¹/2 SE¹/4, NE¹/4 NW¹/4 Section 2; NE¹/4 NE¹/4 Section 3; Section 12; Section 13 except SW¹/4 SW¹/4; Section 24 except NW¹/4, N¹/2 SW¹/4, SW¹/4 NE¹/4, SW¹/4 SW¹/4; N¹/2, S¹/2 S¹/2 Section 25; E¹/2 E¹/2, W¹/2 SE¹/4, NW¹/4 NE¹/4 Section 34; Sections 35– 36

T.26N., R.13E. Willamette Meridian: SE¹/₄ SW¹/₄, S¹/₂ SE¹/₄ Section 6; Section 8; S¹/₂ SW¹/₄, SE¹/₄ Section 10; NW¹/₄ NW¹/₄, S¹/₂ NE¹/₄, NW¹/₄ NW¹/₄ Section 16; W¹/₂ SW¹/₄ Section 17; Section 18–19; SE¹/₄, W¹/₂ W¹/₂, SE¹/₄ SW¹/₄, SW¹/₄ SE¹/₄, E¹/₂ SE¹/₄ Section 20; S¹/₂, SE¹/₄ NW¹/₄, SW¹/₄ NE¹/₄ Section 21; W¹/₂ SW¹/₄ Section 22; NW¹/₄, N¹/₂ SW¹/₄ Section 27; NE¹/₄, N¹/₂ SE¹/₄, NE¹/₄ SW¹/₄, N¹/₂ SU¹/₄, NE¹/₄ SW¹/₄ Section 29; N¹/₂, N¹/₂ SI¹/₄ SE¹/₄ Section 30; W¹/₂ W¹/₂ Section 31; N¹/₂, N¹/₂ SW¹/₄ Section 32.

T.27N., R.12E. Willamette Meridian: S½ SW¹/4, SW¹/4 SE¹/4 Section 13; S½ S¹/2, NE¹/4 SW¹/4, SE¹/4 NW¹/4, N¹/2 SE¹/4 Section 22; S½, S¹/2 NE¹/4, NE¹/4 NE¹/4, SE¹/4 NW¹/4 Section 23; Sections 24–27; Section 34–36.

 $\label{eq:continuity} T.27N., R.13E. Willamette Meridian: $W^{1}/_{2}$, $SE^{1}/_{4}$ NW^{1}/_{4}$ Section 19; $W^{1}/_{2}$ NW^{1}/_{4}$, $NW^{1}/_{4}$ Section 20.$



Map and description of WA-10-c taken from United States Fish and Wildlife Service 1:100;000 map; Cape Flattery, Skykomish River and Snoqualmie Pass, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.20N., R.10E. Willamette Meridian: Section 2 except $N^{1/2}$ $N^{1/2}$, $SW^{1/4}$ $NW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$.

T.21N.,~R.09E. Willamette Meridian: Section 12; Section 14; NE $^1\!\!/_4$ Section 22; N $^1\!\!/_2$ NW $^1\!\!/_4$ Section 24.

T.21N., R.10E. Willamette Meridian: Section 2; S¹/2 SE¹/4, NW¹/4 SE¹/4, SW¹/4 Section 4; Section 6; Section 8 except S¹/2 SW¹/4; Section 10 except E¹/2 SE¹/4, SE¹/4 NE¹/4; Section 12; Section 14; Section 16 except E¹/2 NE¹/4; Section 18; N¹/2 NW¹/4, E¹/2 SE¹/4, NE¹/4 Section 20; Section 22 except E¹/2 NE¹/4; Section 24 except SW¹/4 SW¹/4; N¹/2 NE¹/4 Section 26; NE¹/4 NW¹/4, SW¹/4 SW¹/4, N¹/2 NE¹/4 Section 36.

T.21N., R.11E. Willamette Meridian: Section 6; E 1 /₂ W 1 /₂, NW 1 /₄, W 1 /₂ SW 1 /₄, W 1 /₂ NE 1 /₄ Section 8; Section 18 except E 1 /₂ SE 1 /₄; N 1 /₂ NW 1 /₄, SW 1 /₄ NW 1 /₄, SW 1 /₄ SW 1 /₄ Section 30.

T.22N., R.09E. Willamette Meridian: S¹/₂ S¹/₂ Section 2; N¹/₂ Section 11; W¹/₂ NW¹/₄, S¹/₂, NE¹/₄ NW¹/₄ Section 12; Section 36 except W¹/₂ NW¹/₄, NE¹/₄ NW¹/₄, NW¹/₄ SW¹/₄.

T.22N., R.10E. Willamette Meridian: $S\frac{1}{2}$ SE $\frac{1}{4}$ Section 12; $S\frac{1}{2}$, NE $\frac{1}{4}$, $S\frac{1}{2}$ NW $\frac{1}{4}$ Section 13; $S\frac{1}{2}$, SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 14; W $\frac{1}{2}$, SE $\frac{1}{4}$ Section 18; Section 20 except SE $\frac{1}{4}$ SE $\frac{1}{4}$; S $\frac{1}{2}$ SE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 22; Section 23; Sections 24–26; E $\frac{1}{2}$ Se $\frac{1}{4}$ Section 28; S $\frac{1}{2}$ Section 32; Section 34; N $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 35; Section 36.

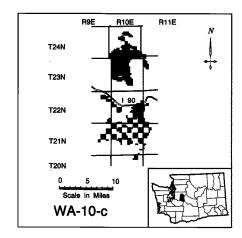
T.22N., R.11E. Willamette Meridian: S¹/₂ SW¹/₄, SE¹/₄ Section 18; W¹/₂ W¹/₂ Section 19; W¹/₂ SW¹/₄, SW¹/₄ NW¹/₄ Section 31.

T.23N., R.10E. Willamette Meridian: $NW^{1/4}$ $NE^{1/4}$, $N^{1/2}$ $SW^{1/4}$, $NW^{1/4}$, $SW^{1/4}$ $SW^{1/4}$ Section 3; Sections 4–9; Section 10 except $E^{1/2}$ $NW^{1/4}$, $E^{1/2}$; $W^{1/2}$, $SW^{1/4}$ $SE^{1/4}$ Section 15; Sections 16–19; Section 20 except $SE^{1/4}$ $NW^{1/4}$, $S^{1/2}$ $NE^{1/4}$, $NE^{1/4}$ $NE^{1/4}$; Section 21; Section 22 except $SW^{1/4}$ $NE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$, $E^{1/2}$ $NE^{1/4}$; Section 27; Section 28 except $N^{1/2}$ $SE^{1/4}$, $SE^{1/4}$

 $\begin{array}{c} T.23N.,\,R.11E.\,\,Willamette\,\,Meridian:\\ NW^{1}\!\!/_{4},\,W^{1}\!\!/_{2}\,\,SW^{1}\!\!/_{4},\,SE^{1}\!\!/_{4}\,\,SW^{1}\!\!/_{4},\,W^{1}\!\!/_{2}\,\,NE^{1}\!\!/_{4}\\ Section\,\,6;\,Section\,\,7;\,W^{1}\!\!/_{2}\,\,SW^{1}\!\!/_{4}\,\,Section\,\,8;\\ W^{1}\!\!/_{2}\,\,NW^{1}\!\!/_{4}\,\,Section\,\,17;\,N^{1}\!\!/_{2}\,\,NE^{1}\!\!/_{4},\,SE^{1}\!\!/_{4}\,\,NE^{1}\!\!/_{4}\\ Section\,\,18. \end{array}$

T.24N., R.10E. Willamette Meridian: $S^{1/2}$ SE^{1/4}, SE^{1/4} NE^{1/4} Section 9; N^{1/2} S^{1/2}, N^{1/2} Section 10; SW^{1/4}, SW^{1/4} NW^{1/4}, SW^{1/4}, SE^{1/4} Section 11; W^{1/2} NW^{1/4}, NW^{1/4}, SW^{1/4}, SE^{1/4} Section 16; E^{1/2} SE^{1/4}, SW^{1/4} SE^{1/4} Section 16; E^{1/2} SE^{1/4}, SW^{1/4} SE^{1/4} Section 21; E^{1/2} NW^{1/4}, S^{1/2}, W^{1/2} NE^{1/4}, SE^{1/4} NE^{1/4} Section 22; SW^{1/4}, SW^{1/4} NW^{1/4}, S^{1/2} SE^{1/4} Section 23; S^{1/2} SW^{1/4} Section 24; Section 25 except NE^{1/4}; S^{1/2}, SE^{1/4} NE^{1/4}, N^{1/2} NE^{1/4} Section 26; Section 27; Section 28 except NW^{1/4}; Section 29 except N^{1/2} NW^{1/4}; S^{1/2} SE^{1/4}, NE^{1/4} Section 30; Sections 31–36.

T.24N., R.11E. Willamette Meridian: $W^{1/2}$ SE $^{1/4}$ Section 31.



Map and description of WA-11-a taken from United States Fish and Wildlife Service 1:100;000 map; Snoqualmie Pass and Mt Rainier, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.17N., R.10E. Willamette Meridian: Sections 1–2; Section 3 except $W^{1/2}$ $NW^{1/4}$, $SW^{1/4}$ $SW^{1/4}$.

T.17N., R.11E. Willamette Meridian: W¹/₂ SW¹/₄, SE¹/₄ SW¹/₄ Section 6; NW¹/₄ NE¹/₄ Section 7.

T.18N., R.08E. Willamette Meridian: Sections 1–2; $E^1/2$, $E^1/2$ NW $^1/4$, NW $^1/4$ NW $^1/4$ Section 3; $E^1/2$ NW $^1/4$, N $^1/2$ NE $^1/4$, SW $^1/4$ NE $^1/4$ Section 10; Section 11 except SW $^1/4$ SE $^1/4$, W $^1/2$ SW $^1/4$, SE $^1/4$ SW $^1/4$; Sections 12–13; Section 14 except NW $^1/4$, NW $^1/4$ NE $^1/4$, N $^1/2$ SW $^1/4$, SS $^1/4$ SW $^1/4$; SW $^1/4$ Section 20; E $^1/2$ SE $^1/4$, SE $^1/4$ NE $^1/4$ Section 22; Sections 23–24; Section 25 except SW $^1/4$ SW $^1/4$; NV $^1/2$, NE $^1/4$ SE $^1/4$ Section 26; S $^1/2$ SE $^1/4$, NE $^1/4$ Section 36.

T.18N., R.09E. Willamette Meridian: Sections 1–30; Section 31 except $N^{1/2}$ $NW^{1/4}$; Sections 32–36.

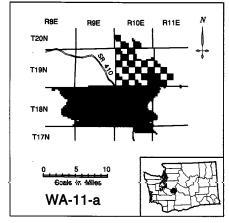
T.18N., R.10E. Willamette Meridian: Sections 1–12; NW 1 4, NW 1 4 SW 1 4, N 1 5 NE 1 4 Section 13; Sections 14–23; NW 1 4 SW 1 4, S 1 5 SW 1 4, SW 1 4 SE 1 4 Section 24; Sections 25–35; Section 36 except S 1 5 NE 1 4.

 $\begin{array}{c} T.18N., R.11E. \ Willamette \ Meridian: \ NW^{1/4} \\ NE^{1/4} \ Section \ 2; \ NE^{1/4} \ NE^{1/4}, \ SW^{1/4} \ NW^{1/4} \\ Section \ 5; \ Section \ 6; \ NW^{1/4}, \ W^{1/2} \ NE^{1/4}, \\ NW^{1/4} \ SW^{1/4} \ Section \ 7; \ W^{1/2} \ NW^{1/4}, \ SE^{1/4} \\ NW^{1/4}, \ SW^{1/4}, \ W^{1/2} \ SE^{1/4} \ Section \ 30; \ SW^{1/4} \\ SW^{1/4} \ Section \ 31. \end{array}$

T.19N., R.10E. Willamette Meridian: Section 4; Section 6 except $E^{1/2}$ NE $^{1/4}$; Section 8; W $^{1/2}$ W $^{1/2}$, SE $^{1/4}$ SW $^{1/4}$, S $^{1/2}$ SE $^{1/4}$ Section 10; S $^{1/2}$ SW $^{1/4}$, SE $^{1/4}$ Section 12; Section 14; Section 16; Section 18; Section 20; Section 22; Sections 24–26; Section 28; W $^{1/2}$, SE $^{1/4}$ Section 30; Section 32; W $^{1/2}$, SE $^{1/4}$ Section 36.

T.19N., R.11E. Willamette Meridian: W¹/₂, SE¹/₄ Section 18; Section 20; Section 28; SW¹/₄ SW¹/₄ Section 35.

T.20N., R.10E. Willamette Meridian: W¹/₂ SE¹/₄, SE¹/₄ SE¹/₄ Section 28; Section 30 except SW¹/₄ SW¹/₄; Section 32 except N¹/₂ NE¹/₄; Section 34 except NE¹/₄ NE¹/₄.



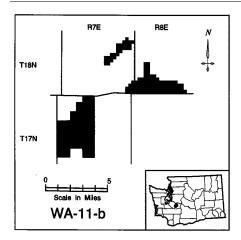
Map and description of WA-11-b taken from United States Fish and Wildlife Service 1:100;000 map; Snoqualmie Pass and Mt Rainier, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $\label{eq:continuous} T.17N,~R.07E.~Willamette~Meridian: Section 4;~SE\s^4/4~Section 5;~Section 8~except $N^{1}\!\!/_2~NW^{1}\!\!/_4;~Section 9;~Sections 16–21;~Section 28;~N^{1}\!\!/_2~N^{1}\!\!/_2~Section 29;~Section 30.$

T.18N, R.07E. Willamette Meridian: S½ SW½, NE¼ SW¼, S½ SE¼ Section 12; NW¼, W½ SE¼ Section 13; NE¼, N½ SE¼, S½ SW¼ Section 14; NE¼, N½ SE¼ Section 22; N½ NW¼, SW¼ Section 22; N½ NW¼, SW¼ NW¼ Section 23; Section 36 except W½ NW¼, NE¼ NW¼.

T.18N, R.08E. Willamette Meridian: SW $^{1}/_{4}$ Section 20; SW $^{1}/_{4}$ SW $^{1}/_{4}$ Section 28; Section 29 except NE $^{1}/_{4}$; S $^{1}/_{2}$ SE $^{1}/_{4}$ Section 30; Sections 31–33; Section 34 except NE $^{1}/_{4}$ NE $^{1}/_{4}$; SW $^{1}/_{4}$ NW $^{1}/_{4}$, W $^{1}/_{2}$ SW $^{1}/_{4}$, SE $^{1}/_{4}$ SW $^{1}/_{4}$ Section 35.



Map and description of WA-11-c taken from United States Fish and Wildlife Service 1:100;000 map; Tacoma and Centralia, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

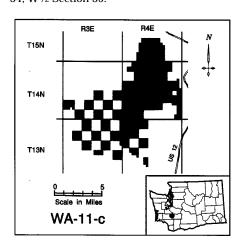
T.13N., R.03E. Willamette Meridian: Section 2; Section 4; Section 8; Section 10; Section 12; Section 14; Section 16; $N^{1/2}$ Section 22; Section 24.

T.13N., R.04E. Willamette Meridian: Sections 4–8; Section 16; Section 18 except SW 1 4 SW 1 4; N 1 2, NE 1 4 SW 1 4, N 1 2 SE 1 4, SE 1 4 Section 20; N 1 2 SE 1 4, SE 1 4 SE 1 4, NE 1 4 Section 28.

T.14N., R.03E. Willamette Meridian: Section 22; Section 24; Section 26; Section 28; Section 30; Section 32; Section 34; Section 36.

T.14N., R.04E. Willamette Meridian: Section 2–5; SE¹/4 Section 6; Sections 8–10; W¹/₂ Section 11; SE¹/4 SE¹/4 Section 12; Section 13 except NE¹/4 SE¹/4, E¹/₂ NE¹/4; Sections 14–23; Section 24 except NW¹/4; Section 25 except SW¹/4; N¹/₂ N¹/₂ Section 26; Sections 27–32; E¹/₂ SW¹/4, E¹/₂ Section 36.

T.15N., R.04E. Willamette Meridian: $S^{1/2}$ Section 21; $S^{1/2}$ Section 22; $NW^{1/4}$ $NW^{1/4}$, $S^{1/2}$ $NW^{1/4}$, $SW^{1/4}$ Section 26; Sections 27–28; $E^{1/2}$ E^{1/2} Section 29; $E^{1/2}$ Section 32; Sections 33–34: $W^{1/2}$ Section 35.



Map and description of WA-11-d taken from United States Fish and

Wildlife Service 1:100;000 map; Mt. Rainier, Washington; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.13N., R.07E. Willamette Meridian: Section 10; Section 12; Section 14; Section 22.

 $T.13N.,\,R.08E.$ Willamette Meridian: Sections 1–8; Section 9 except SE½ SE½; N½, N½, N½, SW½ NE½ Section 10; SE½, N½ NW¼ Section 11; Section 12 except S½ S½; Section 16 except E½ E½; Section 17; Section 18 except S½ S½; Section 20 except SW¼, W½ NW¼, S½ SE¼; NW¼, N½ SW¼ Section 21.

T.13N., R.09E. Willamette Meridian: $NW^{1/4}$ $NW^{1/4}$ Section 3; Section 4 except $S^{1/2}$ $SE^{1/4}$; Sections 5–6; $N^{1/2}$, $N^{1/2}$ $S^{1/2}$ Section 7; $N^{1/2}$, $N^{1/2}$ $SW^{1/4}$, $NE^{1/4}$ $SE^{1/4}$ Section 8; $W^{1/2}$ $NW^{1/4}$ Section 9.

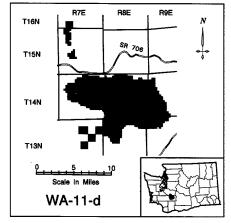
T.14N., R.07E. Willamette Meridian: $SW^{1/4}$ $NW^{1/4}$, $S^{1/2}$ Section 1; Section 2 except $N^{1/2}$ $N^{1/2}$; Section 3 except $NE^{1/4}$ $NE^{1/4}$, $SE^{1/4}$, $SE^{1/4}$ $SW^{1/4}$, $SW^{1/4}$; Section 4; $E^{1/2}$ $SE^{1/4}$ Section 7; $S^{1/2}$, $S^{1/2}$ $N^{1/2}$ Section 8; Sections 9–17; $N^{1/2}$ $NE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$ Section 18; Section 20 except $SW^{1/4}$, $S^{1/2}$ $SE^{1/4}$; $N^{1/2}$, $SE^{1/4}$, $N^{1/2}$ $SW^{1/4}$ Section 21; Sections 22–24; Section 25 except $S^{1/2}$ $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$; Section 26 except $S^{1/2}$ $S^{1/2}$; $NE^{1/4}$, $N^{1/2}$ $NW^{1/4}$ Section 27; $NE^{1/4}$ $NE^{1/4}$ Section 28.

T.14N., R.08E. Willamette Meridian: S½ SE¼ Section 2; SW¼, W½ SE¼ Section 3; Section 4; Section 5 except NW¼ NW¼; SW¼ NW¼, S½ Section 6; Sections 7–36.

 $\begin{array}{c} T.14N.,\,R.09E.\,\,Willamette\,\,Meridian;\\ Section\,\,7\,\,except\,\,N^{1\!/2}\,\,NW^{1\!/4};\,W^{1\!/2}\,\,W^{1\!/2}\\ Section\,\,8;\,SW^{1\!/4},\,W^{1\!/2}\,\,NW^{1\!/4},\,SE^{1\!/4}\,\,NW^{1\!/4},\\ SW^{1\!/4}\,\,SE^{1\!/4}\,\,Section\,\,17;\,Sections\,\,18-19;\\ Section\,\,20\,\,except\,\,NE^{1\!/4}\,\,NE^{1\!/4};\,W^{1\!/2}\,\,SW^{1\!/4}\\ Section\,\,21;\,W^{1\!/2},\,W^{1\!/2}\,\,SE^{1\!/4},\,SW^{1\!/4}\,\,NE^{1\!/4}\\ Section\,\,28;\,Section\,\,29-32;\,Section\,\,33\,\,except\\ W^{1\!/2}\,\,NE^{1\!/4};\,SW^{1\!/4}\,\,SW^{1\!/4}\,\,Section\,\,34. \end{array}$

T.15N., R.07E. Willamette Meridian: $W^{1/2}$, $W^{1/2}$ SE $^{1/4}$, $NW^{1/4}$ NE $^{1/4}$ Section 5; E $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ Section 6; $W^{1/2}$, $W^{1/2}$ NE $^{1/4}$, SW $^{1/4}$ Section 8; SW $^{1/4}$ Section 16; NE $^{1/4}$ NW $^{1/4}$, NW $^{1/4}$ NE $^{1/4}$ Section 17; SE $^{1/4}$, NE $^{1/4}$ SW $^{1/4}$, SE $^{1/4}$ NW $^{1/4}$, SE $^{1/4}$ Section 20; W $^{1/2}$ W $^{1/2}$, SE $^{1/4}$ SW $^{1/4}$ Section 21.

T.16N., R.07E. Willamette Meridian: Section 32.



Map and description of OR-01-a taken from United States Fish and Wildlife Service 1:100,000 map; Astoria, Nehalem River, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.05N., R.07W. Willamette Meridian: $SE^{1/4}$ SE $^{1/4}$ Section 3.

Proposed Critical Habitat includes only State lands described within the following areas:

T.08N., R.06W. Willamette Meridian: W½ SW½, SW½, NW½ NW½ Section 17; Section 18 except NE¾ NE½; Section 19; W½ W½ Section 20; W½ Section 29; NW½, N½ SW¼, SW¼ SW¼ Section 30; W½ W½ SE½ Section 30; W½ W½ SY½ SE½ Section 31; E½ Section 32; W½ Section 33.

T.08N., R.07W. Willamette Meridian: Section 13; $E^{1/2}$ Section 14; Section 23 except $NW^{1/4}$; Section 24–26; Section 36.

T.07N., R.06W. Willamette Meridian: $N^{1/2}$ SW¹/₄, SE¹/₄ SW¹/₄ Section 2; W¹/₂ W¹/₂, SE¹/₄ SW¹/₄ Section 3; Section 4; Sections 9–11; Sections 13–14; Section 16; Sections 25–36.

T.07N., R.07W. Willamette Meridian: Sections 30–31; $W^{1/2}$ Section 32.

T.07N., R.08W. Willamette Meridian: Section 22 except N 1 /2 N 1 /2; Section 23 except N 1 /2 NW 1 /4; Section 24 except NE 1 /4; Section 25; Section 26 except S 1 /2 SW 1 /4; N 1 /2, N 1 /2 SW 1 /4, SE 1 /4 SW 1 /4 Section 27; NE 1 /4 Section 28; SE 1 /4 NE 1 /4, NE 1 /4 SE 1 /4 Section 34; S 1 /2 Section 35; Section 36.

T.06N., R.05W. Willamette Meridian: $W^{1/2}$ SW^{1/4}, SW^{1/4} NW^{1/4}, Section 18; W^{1/2} W^{1/2} Section 19; NW^{1/4} NW^{1/4} Section 30.

T.06N., R.06W. Willamette Meridian: Section 1 except N¹/₂ NE¹/₄; Sections 2–6; N¹/₂ NE¹/₄ Section 7; Section 8 except W¹/₂ SW¹/₄; Sections 9–10; Section 11 except S¹/₂ NE1/4, N1/2 SE1/4, SE1/4 NW1/4; N1/2 NW1/4, NW1/4 NE1/4, SW1/4 SW1/4 Section 12; Section 13 except S1/2 SW1/4, NW1/4 SW1/4, NE1/4 NE¹/₄; Section 14 except S¹/₂ SE¹/₄; Section 15; Section 16 except SW1/4 SE1/4, SE1/4 SW1/4; Section 17 except SW1/4 SW1/4; S1/2 SE1/4, NE1/4 SE1/4 Section 19; E1/2 NE1/4 Section 21; NE1/4, N1/2 NW1/4 Section 22; NW¹/₄ Section 23; NE¹/₄, E¹/₂ SE¹/₄ Section 24; NE1/4 NE1/4 Section 25; W1/2 Section 28; SW1/4, W1/2 NW1/4, E1/2 NE1/4, SW1/4 SE1/4 Section 29; Sections 30-32; S1/2 N1/2, W1/2 SW1/4, NE1/4 SW1/4 Section 33.

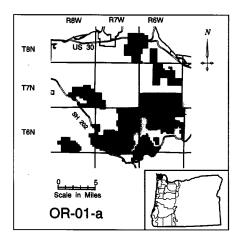
T.06N., R.07W. Willamette Meridian: Sections 1–3; E½ NE½ Section 4; NW¼ NW¼ Section 5; N½ NE¼ Section 6; E½ SE¼ Section 9; Sections 10–15; NE¼ NE¼, S½ SW¼ Section 16; S½ S½ Section 17; SW½ NW¼ Section 18; Section 19 except N½ SE¼, S½ NE¼, NW¼ NW¼, NE¼ NE¼ Section 223; W½ W½ Section 24; W½ W½ NE¼ Section 25; Sections 26–30; Section 31 except SW¼, N½ SE¼, SW¼ NW¼; N½ Section 32; Section 33 except NW¼; Section 32; Section 34 except SE¼ Section 35 except NE¼ SW¼; Section 36 except SV¼, NW¼, NE¼ NW¼, NE¼ Section 36 except S½ NW¼, NE¼ NW¼, NW¼ SW¼.

T.06N., R.08W. Willamette Meridian: $S^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ SE $^{1/4}$ Section 13; SE $^{1/4}$, E $^{1/2}$ SW $^{1/4}$ Section 24; E $^{1/2}$ Section 25; SW $^{1/4}$, SW $^{1/4}$

SE 1 4 Section 27; Section 28 except E 1 2 NE 1 4; Section 29 except NW 1 4; E 1 2 Section 32; Sections 33–34; SW 1 4 NW 1 4, NW 1 4 SW 1 4 Section 35; NE 1 4 NE 1 4 Section 36.

T.05N., R.06W. Willamette Meridian: $W^{1/2}$ NW $^{1/4}$ Section 4; NE $^{1/4}$ Section 5; W $^{1/2}$, NW $^{1/4}$ NE $^{1/4}$ Section 6.

T.05N., R.07W. Willamette Meridian: Section 1 except W½ NW¼, S½ SE¼; N½ NW¼ Section 3.



Map and description of OR–01–b taken from United States Fish and Wildlife Service 1:100,000 map; Nehalem River, Oregon; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

T.03N., R.08W. Willamette Meridian: Sections 6–7; Sections 16–17; Section 18 S of Foss River; Sections 19–21; Sections 27–28.

T.03N., R.09W. Willamette Meridian: Section 1 except W $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$; S $^{1}/_{2}$ SE $^{1}/_{4}$ Section 2; NW $^{1}/_{4}$, W $^{1}/_{2}$ SW $^{1}/_{4}$ Section 3; Section 4 except W $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ Section 5 except W $^{1}/_{2}$ NW $^{1}/_{4}$; Section 8 except SW $^{1}/_{4}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$, NE $^{1}/_{4}$, NE $^{1}/_{4}$, NE $^{1}/_{4}$, NW $^{1}/_{4}$; Section 11 except NW $^{1}/_{4}$ NW $^{1}/_{4}$; Sections 12–16; Section 21 except W $^{1}/_{2}$ NW $^{1}/_{4}$, SE $^{1}/_{4}$ NW $^{1}/_{4}$; Section 23 lying N of Foss River; W $^{1}/_{2}$, NW $^{1}/_{4}$ Section 24 lying N of Foss River; Section 28.

T.03N., R.10W. Willamette Meridian: $W^{1/2}$ Section 1; Section 2 except $NW^{1/4}$; $SW^{1/4}$, $S^{1/2}$ SE^{1/4} Section 5; Section 6 except $NW^{1/4}$ NW^{1/4}, NE^{1/4} NE^{1/4}; Section 7; $N^{1/2}$ NE^{1/4}, SE^{1/4}, NW^{1/4} NW^{1/4} Section 7; $N^{1/2}$ NE^{1/4}, Section 11; Section 12 except $E^{1/2}$ E^{1/2}, W^{1/2} SW^{1/4}; NW^{1/4} NE^{1/4} Section 13; S^{1/2}, E^{1/2} NE^{1/4} Section 17; Section 18 except $N^{1/2}$ NE^{1/4}, SE^{1/4} NE^{1/4}.

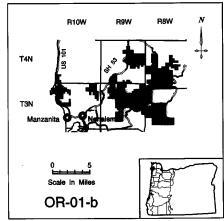
T.03N., R.11W. Willamette Meridian: $SE^{1/4}$ Section 1; Section 12.

T.04N., R. 08W. Willamette Meridian: S½, S½ NW¼, SW¼ NE¼ Section 8; SE¼ Section 10; S½ S½, W½ NW¼, SE¼ NW¼, SE¼ NW¼, SE¼ NW¼, SE¼ Section 14; Section 15 except NW¼; Section 17 except NW¼ SW¼; Sections 19–20; Section 21 except N¼ Section 22 except S½ NE¼, NW¼ NE¼; E½ NW¼, NW¼, NW¼, NW¼, W½ NE¼ Section 23; Section 27–29; S½ SE¼, SE¼ SW¼ Section 30; SE¼, NE¼, NE¼ NW¼, E½ SW¼ Section 30; SE¼, SE¼ NE¼ SW¼ Sections 31; Sections

32–33; Section 34 except SE¹/₄ NE¹/₄, NE¹/₄ SE¹/₄.

T.04N., R.09W. Willamette Meridian: Section 10 except NW¹/4; SW¹/4 Section 11; Sections 13–14; E¹/2, SE¹/4 SW¹/4 Section 15; N¹/2 NE¹/4, SE¹/4 NE¹/4 Section 22; Section 23 except SE¹/4 SE¹/4; N¹/2, W¹/2 SW¹/4, NW¹/4 SE¹/4 Section 24; SW¹/4 SW¹/4 Section 28; SE¹/4 SE¹/4 Section 29; Section 32 except W¹/2 W¹/2, NE¹/4 NW¹/4; W¹/2 W¹/2, S¹/2 SE¹/4, SE¹/4 SW¹/4 Section 33; Section 34 except N¹/2, NE¹/4 SW¹/4; SW¹/4 SW¹/4 SW¹/4 Section 35.

T.04N., R.10W. Willamette Meridian: $S^{1/2}$ SW¹/4, NW¹/4 SW¹/4, SW¹/4 SE¹/4 Section 30; Section 31 except NE¹/4, E¹/₂ SE¹/₄.



Map and description of OR-01-c taken from United States Fish and Wildlife Service 1:100,000 map; Nehalem River and Yamhill River, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $\begin{array}{c} T.01N.,\ R.09W.\ Williamette\ Meridian:\ W^{1/2}\\ SW^{1/4}\ Section\ 25;\ E^{1/2}\ SE^{1/4},\ SW^{1/4}\ SE^{1/4}\\ Section\ 26;\ E^{1/2}\ SE^{1/4},\ W^{1/2}\ SW^{1/4},\ SE^{1/4}\\ SW^{1/4},\ SE^{1/4}\ NE^{1/4},\ SW^{1/4}\ NW^{1/4}\ Section\ 34;\\ Section\ 35\ except\ SW^{1/4},\ NW^{1/4}\ NW^{1/4};\ N^{1/2}\\ NW^{1/4}\ Section\ 36. \end{array}$

T.01S., R.08W. Willamette Meridian: Section 7 except SE 1 4, E 1 2 NE 1 4, NW 1 4 NW 1 4; S 1 2 Section 17; Section 18 except N 1 2, NW 1 4 SE 1 4; N 1 2, NV 1 2, SW 1 4 NE 1 4, SE 1 4 NW 1 4, SE 1 4 Section 19; N 1 2 N 1 2, NE 1 4 SW 1 4, SW 1 4 Section 20; Section 21 except N 1 2 NE 1 4, SW 1 4, SY 1 2 SE 1 4, N 1 2 SW 1 4, SE 1 4 SW 1 4 Section 28; S 1 2 NE 1 4, N 1 2 SE 1 4, SV 1 4 SeV 1 4 Section 29; NE 1 4, N 1 2 NW 1 4, SW 1 4, SW 1 4 NW 1 4, SE 1 4 SE 1 4 Section 30; N 1 2 NE 1 4 Section 31.

T.01S., R.09W. Willamette Meridian: Section 1 except E½ E½; E½; E½ E½, NW¼ NE¼ Section 2; S½ SW¼ Section 3; Section 4 except SW¼ SW¼; NE¼, NE¼ SE¼, NW¼ Section 5; S½ NE¼, NW¼ NE¼ NW¼ Section 5; S½ NE¾, NW¼ NE¼ NW¼ Section 9; S½ Section 10; S½, S½ NW¼ Section 11; NW¼, N½ SW¼, NW¼ NE¼, NE¼ SE¼ Section 12; SE¼ NW¼, NE¼, NE¼ SW¼, NW¼ SE¼ Section 13; N½ N¼, SW¼ NE¼ SE¼ NW¼, NE¼ SW¼ SE¼ Section 13; N½ N½, SW¼ NE¼ NE¼ SE¼ NW¼, NE¼ SW¼ SE¼ Section 15.

T.01S., R.11W. Willamette Meridian: $SE^{1/4}$ $SE^{1/4}$ Section 13.

Proposed Critical Habitat includes only State lands described within the following areas:

T.02N., R.09W. Willamette Meridian: Section 3; E½, E½ NW¼ Section 7; S½ Section 16; Section 18 except W½ NW¼; Sections 19–22: Sections 29–32.

T.02N., R.10W. Willamette Meridian: $E^{1/2}$ SE¹/4 Section 13; E¹/2 E¹/2, NW¹/4 SE¹/4 Section 24; S¹/2 SE¹/4, SE¹/4 SW¹/4 Section 25; SE¹/4 NE¹/4, SE¹/4 Section 35; Section 36 except SE¹/4 NW¹/4.

T.01N., R.09W. Willamette Meridian: Section 9; Section 16 except S 1 /2 SW 1 /4; SW 1 /4, SW 1 /4 SE 1 /4 Section 19; Section 20 except N 1 /2 N 1 /2, SE 1 /4 NE 1 /4, SW 1 /4 NW 1 /4, NW 1 /4 SW 1 /4; N 1 /2 NE 1 /4, S 1 /2 SW 1 /4, NW 1 /4 SW 1 /4 Section 21; Section 26 except S 1 /2 SE 1 /4, NE 1 /4 SE 1 /4; Section 27; W 1 /2 Section 28; Section 29 except SE 1 /4 NW 1 /4, SW 1 /4 NE 1 /4; Section 30; NE 1 /4, N 1 /2 NW 1 /4, SW 1 /4 NW 1 /4, NE 1 /4 Se 1 /4 Section 31; N 1 /2, NE 1 /4 Section 32; S 1 /2 S 1 /2, N 1 /2 NW 1 /4, SW 1 /4 NW 1 /4, NW 1 /4 SE 1 /4 Section 33; Section 34 except E 1 /2 SE 1 /4, NW 1 /4 Section 35; Section 36 except N 1 /2 NW 1 /4

T.01N., R.10W. Willamette Meridian: NW¹/4 NE¹/4, NE¹/4 NW¹/4 Section 1; SW¹/4 Section 2; W¹/2, S¹/2 SE¹/4 Section 11; NW¹/4, SE¹/4, S¹/2 NE¹/4, S¹/2 SW¹/4 Section 13; S¹/2 SE¹/4 Section 14; S¹/2 SE¹/4 Section 22; Section 23 except NW¹/4; Sections 24–26; E¹/2, SE¹/4 NW¹/4, NE¹/4 SW¹/4 Section 27; Section 34 except S¹/2 S¹/2; Section 35 except SW¹/4, S¹/2 NW¹/4, SW¹/4 SE¹/4; NE¹/4, W¹/2 NW¹/4 Section 36.

T.01S., R.08W. Willamette Meridian: $N^{1/2}$ Section 6; SE^{1/4} Section 7; SW^{1/4} Section 16; $N^{1/2}$ S^{1/2}, SE^{1/4} NW^{1/4} Section 17; $N^{1/2}$ N^{1/2}, SE^{1/4} NW^{1/4}, NW^{1/4}, NW^{1/4} SE^{1/4} Section 18; Section 19 except N^{1/2} N^{1/2}, SE^{1/4} SE^{1/4}, SW^{1/4} NE^{1/4} SE^{1/4} NW^{1/4}; Section 20 except S^{1/2} S^{1/2}, N^{1/2} N^{1/2}, NE^{1/4} SW^{1/4}; S^{1/2} SW^{1/4}, Section 21; N^{1/2} N^{1/2}, SW^{1/4} NE^{1/4} Section 28.

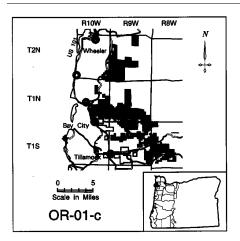
Proposed Critical Habitat includes only County lands described within the following areas:

T.01N., R.09W. Willamette Meridian: $S^{1/2}$ SW $^{1/4}$ Section 16; NW $^{1/4}$, S $^{1/2}$ NE $^{1/4}$, N $^{1/2}$ SE $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$, NE $^{1/4}$ SW $^{1/4}$ Section 21; E $^{1/2}$ Section 28; N $^{1/2}$ NE $^{1/4}$, SE $^{1/4}$ NW $^{1/4}$ Section 33.

T.01S., R.09W. Willamette Meridian: $E^{1/2}$ SE¹/4 Section 8; W¹/2 SW¹/4 Section 9; W¹/2 NW¹/4 Section 16.

T.01S., R.09W. Willamette Meridian: $E\frac{1}{2}$ $E\frac{1}{2}$ Section 1; Section 3 except $S\frac{1}{2}$ SW $\frac{1}{4}$; $S\frac{1}{2}$ SE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 7; W $\frac{1}{2}$ SE $\frac{1}{4}$ Section 9; Section 13 except N $\frac{1}{2}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$; SY $\frac{1}{2}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 14; N $\frac{1}{2}$ NW $\frac{1}{4}$ Section 16; N $\frac{1}{2}$, NV $\frac{1}{2}$ SE $\frac{1}{4}$ Section 17; NE $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$ Section 18; NW $\frac{1}{4}$, W $\frac{1}{2}$ NE $\frac{1}{4}$ Section 23; N $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 24; Section 25; Section 36 except SY $\frac{1}{2}$ SY $\frac{1}{2}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$.

T.01S., R.11W. Willamette Meridian: $N^{1/2}$ $S^{1/2}$, $NE^{1/4}$ Section 13.



Map and description of OR-01-d taken from United States Fish and Wildlife Service 1:100,000 map; Nehalem River, Oregon; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

 $\begin{array}{c} T.04N.,\,R.06W.\,\,Willamette\,\,Meridian:\,W^{1/2}\\ NW^{1/4},\,\,NE^{1/4}\,\,NW^{1/4},\,\,NW^{1/4}\,\,NE^{1/4},\,\,NW^{1/4}\\ SW^{1/4}\,\,Section\,\,4;\,\,NE^{1/4},\,\,E^{1/2}\,\,SE^{1/4},\,\,NW^{1/4}\\ SE^{1/4},\,\,NE^{1/4}\,\,NW^{1/4}\,\,Section\,\,5;\,\,SW^{1/4}\,\,SW^{1/4}\\ Section\,\,19;\,\,NW^{1/4},\,\,N^{1/2}\,\,SW^{1/4},\,\,SW^{1/4}\,\,SW^{1/4},\,\,N^{1/2}\,\,SE^{1/4},\,\,SE^{1/4}\,\,SE^{1/4},\,\,SW^{1/4}\,\,NE^{1/4}\,\,Section\,\,30;\,\,W^{1/2}\,\,NW^{1/4}\,\,Section\,\,31. \end{array}$

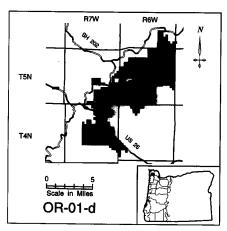
T.04N., R.07W. Willamette Meridian: $S^{1/2}$ NW $^{1/4}$, N $^{1/2}$ SW $^{1/4}$, SW $^{1/4}$ SW $^{1/4}$ Section 1; Section 2; E $^{1/2}$, E $^{1/2}$ NW $^{1/4}$, NW $^{1/4}$ NW $^{1/4}$, NE $^{1/4}$ SW $^{1/4}$ Section 3; SE $^{1/4}$, S $^{1/2}$ SW $^{1/4}$, NW $^{1/4}$ SW $^{1/4}$ Section 9; E $^{1/2}$, S $^{1/2}$ SW $^{1/4}$, NE $^{1/4}$ NW $^{1/4}$ Section 10; Section 11 except E $^{1/2}$ NE $^{1/4}$; W $^{1/2}$ Section 13; Sections 14–16; Sections 21–23; Section 24 except NE $^{1/4}$ NE $^{1/4}$; NE $^{1/4}$, E $^{1/2}$ NW $^{1/4}$, NW $^{1/4}$ NW $^{1/4}$, NE $^{1/4}$ Section 25.

T.05N., R.06W. Willamette Meridian: Sections 1–3; SE¹/4, S¹/2 NE¹/4, S¹/2 SW¹/4 Section 7; Sections 8–18; Section 19 except SE¹/4 NE¹/4, NE¹/4 SE¹/4; Section 20 except S¹/2 NW¹/4; Section 21 except NE¹/4 SW¹/4, NW¹/4 SE¹/4; Section 22; Section 23 except SE¹/4 SE¹/4; Section 24 except S¹/2 SW¹/4; NE¹/4 NE¹/4 Section 25; Sections 27–34.

T.05N., R.07W. Willamette Meridian: SE½, SE½ NE½, SE½ SE½ SE½ SW½ Section 13; Section 22 except S½ S½; N½ SW¼ Section 23; S½, E½ NW¼ Section 24; Sections 25–26; SE¼, S½ NE¼, E½ SW¼, SE¼ NW¼ Section 27; SE¼ Section 33; Section 34 except W½ NW¼, NE¼ SW¼; Sections 35–36.

T.05N., R.08W. Willamette Meridian: S¹/₂ NW¹/₄ Section 25; SE¹/₄ NE¹/₄ Section 26. T.06N., R.05W. Willamette Meridian: SW¹/₄ NW¹/₄ Section 31.

T.06N., R.06W. Willamette Meridian: W¹/₂ SW¹/₄ Section 25; Section 26 except SE¹/₄ NE¹/₄, NE¹/₄ SE ¹/₄; Section 35; S¹/₂, SE¹/₄ NE¹/₄, S¹/₂ NW¹/₄, NW¹/₄ NW¹/₄ Section 36.

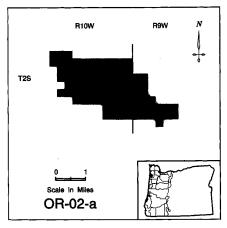


Map and description of OR-02-a taken from United States Fish and Wildlife Service 1:100,000 map; Yamhill River, Oregon; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

T.02S., R.09W. Willamette Meridian: Section 22 except SW $^{1/4}$, W $^{1/2}$ NW $^{1/4}$; Sections 23–25; Section 26 except S $^{1/2}$ S $^{1/2}$; E $^{1/2}$ NE $^{1/4}$, SW $^{1/4}$ NE $^{1/4}$ Section 27.

T.02S., R.08W. Willamette Meridian: $SW^{1/4}$ Section 19; $SW^{1/4}$ Section 29; Section 30 except $N^{1/2}$ $NE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$; $NE^{1/4}$ $NE^{1/4}$ Section 31.



Map and description of OR–02-b taken from United States Fish and Wildlife Service 1:100,000 map; Yamhill River, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.03S., R.09W. Willamette Meridian: SW¹/₄, SE¹/₄ NW¹/₄ Section 3; Section 4 except N¹/₂ NE¹/₄, W¹/₂ NW¹/₄, SE¹/₄ NW¹/₄; SE¹/₄ Section 8; Section 9 except SW¹/₄ NW¹/₄; W¹/₂ W¹/₂, NW¹/₄ NE¹/₄, NE¹/₄ NW¹/₄ Section 10; W¹/₂ NW¹/₄ Section 15; N¹/₂ N¹/₂, NW¹/₄ SE¹/₄ SE¹/₄ NE¹/₄ Section 17; Section 19 except E¹/₂, NW¹/₄ NW¹/₄, S¹/₂ SW¹/₄; SE¹/₄ SE¹/₄ Section 31.

T.03S., R.10W. Willamette Meridian: $S^{1/2}$ SE¹/₄, NW¹/₄ SE¹/₄, SE¹/₄ SW¹/₄ Section 22;

Section 23 except N 1 /2 NW 1 /4; S 1 /2, SE 1 /4 NE 1 /4 Section 24; N 1 /2 NW 1 /4, NW 1 /4 SW 1 /4, NW 1 /4 Section 25; Section 26 except E 1 /2 SE 1 /4; Section 27 except N 1 /2 SE 1 /4, SW 1 /4 NE 1 /4, NE 1 /4 SW 1 /4, SE 1 /4 NW 1 /4; Section 28 except W 1 /2 W 1 /2, NE 1 /4 NW 1 /4; SE 1 /4, S 1 /2 N 1 /2, E 1 /2 SW 1 /4 Section 32; Section 33 except NW 1 /4 NW 1 /4; N 1 /2 N 1 /2, SW 1 /4 NW 1 /4, NW 1 /4 SE 1 /4, SE 1 /4 NW 1 /4, NW 1 /4 SE 1 /4, SE 1 /4 NW 1 /4, NE 1 /4 SW 1 /4 Section 35.

T.04S., R.09W. Willamette Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 4; $S^{1/2}$ $S^{1/2}$, $NW^{1/4}$ $SE^{1/4}$, $N^{1/2}$ $SW^{1/4}$ Section 5; Section 6 except $W^{1/2}$ $W^{1/2}$, $NE^{1/4}$ $NE^{1/4}$; Section 7 except $W^{1/2}$ $NW^{1/4}$; Section 8; Section 9 except $NE^{1/4}$ $NE^{1/4}$; $SW^{1/4}$, $SW^{1/4}$ $NW^{1/4}$ Section 10; $NW^{1/4}$ Section 15; Section 16 except $SW^{1/4}$, $S^{1/2}$ $NW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$; $N^{1/2}$ $N^{1/2}$, $SW^{1/4}$ $NE^{1/4}$ Section 17; $N^{1/2}$ $N^{1/2}$, $N^{1/2}$ $NW^{1/4}$ Section 18.

 $\begin{array}{c} T.04S.,\ R.10W.\ Willamette\ Meridian:\ W^{1/2}\\ SW^{1/4},\ NE^{1/4}\ SW^{1/4}\ Section\ 3;\ Section\ 4\\ except\ S^{1/2}\ SW^{1/4},\ SW^{1/4}\ NW^{1/4};\ Section\ 5\\ except\ SE^{1/4},\ SE^{1/4}\ NE^{1/4};\ SE^{1/4},\ S^{1/2}\ NE^{1/4},\\ NE^{1/4}\ NE^{1/4},\ SE^{1/4}\ SW^{1/4}\ Section\ 6;\ N^{1/2}\ NE^{1/4},\\ NE^{1/4}\ NW^{1/4}\ Section\ 7;\ N^{1/2}\ NE^{1/4}\ Section\ 9. \end{array}$

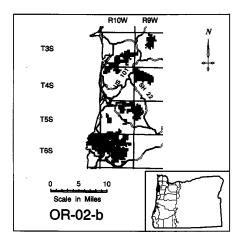
T.05S., R.09W. Willamette Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 5; $S^{1/2}$ $SE^{1/4}$, $NW^{1/4}$ $SE^{1/4}$ Section 6; Section 7; $W^{1/2}$ $W^{1/2}$, $SE^{1/4}$ $NW^{1/4}$, $SW^{1/4}$, $SW^{1/4}$ Section 8; $NW^{1/4}$, $NW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$ Section 17; Section 18; Section 19 except $S^{1/2}$, $SE^{1/4}$ $NE^{1/4}$; $NW^{1/4}$ $SW^{1/4}$ Section 20.

T.05S., R.10W. Willamette Meridian: $S^{1/2}$, S¹/₂ NE¹/₄, SE¹/₄ NW¹/₄ Section 1; Section 2 except NE1/4; NE1/4, S1/2 NW1/4, S1/2 SE1/4, SE1/4 SW1/4 Section 3; E1/2 SE1/4, SE1/4 NE1/4, SE1/4 SW1/4 Section 4; Section 10 except W1/2 W¹/₂, E¹/₂ SW¹/₄, SE¹/₄ NE¹/₄, NE¹/₄ SE¹/₄; W¹/₂ NW¹/₄, E¹/₂ SE¹/₄, NE¹/₄ SW¹/₄ Section 11; Section 12 except NW1/4; NE1/4 NE1/4, SE1/4 SE¹/₄ Section 13; NE¹/₄ NE¹/₄ Section 14; N¹/₂ NE1/4 Section 15; SW1/4, SW1/4 NW1/4 Section 17; Section 20 except W1/2 W1/2; SE1/4 NW1/4, SW¹/₄ NE¹/₄, NW¹/₄ SE¹/₄ Section 23; NE¹/₄ NE1/4 Section 24; N1/2 NW1/4, NW1/4 NE1/4 Section 26; Section 32 except $N^{1/2}$, $NW^{1/4}$ SW1/4; S1/2 S1/2, NE1/4 SE1/4, NW1/4 SW1/4 Section 33; SW1/4, E1/2 NW1/4, SW1/4 NE1/4, NW1/4 SE1/4 Section 34.

T.06S., R.10W. Willamette Meridian: Section 2; W1/2 W1/2, SE1/4 SE1/4 Section 3; Section 4 except SW1/4 SW1/4; NE1/4, N1/2 SE¹/₄, E¹/₂ NW¹/₄ Section 5; W¹/₂ SE¹/₄, SW¹/₄, SW1/4 NW1/4, SW1/4 NE1/4, SE1/4 SE1/4 Section 6; Section 7 except SE1/4 SE1/4, E1/2 NE1/4; Section 8 except N¹/₂ NE¹/₄; Section 9 except S1/2 SE1/4, SE1/4 SW1/4, NW1/4 NW1/4, Section 10; Section 11 except NE¹/₄, SE¹/₄ SE¹/₄, SW¹/₄ Section 12; S¹/₂, SW¹/₄ NW¹/₄, NW¹/₄ NE¹/₄ Section 14; Section 15 except NW1/4; Section 16 except N¹/₂ NE¹/₄; Section 17; Section 18 except W1/2 NE1/4, SE1/4 NW1/4; Section 19 except E1/2 SW1/4, E1/2 E1/2, SW1/4 SE1/4; W1/2 NE¹/₄, E¹/₂ NW¹/₄ Section 20; Sections 21–22; Section 23 except E1/2 E1/2; W1/2 NW1/4, SE1/4 NW¹/₄, S¹/₂ SW¹/₄ Section 26; W¹/₂ W¹/₂, NE1/4, NE1/4 NW1/4, SE1/4 SE1/4 Section 27; Section 28 except SW1/4 NW1/4.

T.06S., R.11W. Willamette Meridian: Section 1–2; Section 11 except NW¹/₄ SW¹/₄; Section 12; Section 13 except SW¹/₄ NE¹/₄, SE¹/₄ NW¹/₄; NE¹/₄, N¹/₂ SE¹/₄ Section 14; NE¹/₄ Section 24.

Proposed Critical Habitat includes only State lands described within the following areas: T.05S., R.10W. Willamette Meridian: SE 1 /4 NE 1 /4, NE 1 /4 SE 1 /4 Section 10; W 1 /2 SW 1 /4 Section 11; NW 1 /4 NW 1 /4 Section 14.



Map and description of OR-02-c taken from United States Fish and Wildlife Service 1:100,000 map; Yamhill River and Corvallis, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $T.06S.,\ R.09W.$ Willamette Meridian: $SE^{1}\!/_{\!4}$ Section 33.

T.06S., R.10W. Willamette Meridian: $SE^{1/4}$, $E^{1/2}$ SW $^{1/4}$ Section 32.

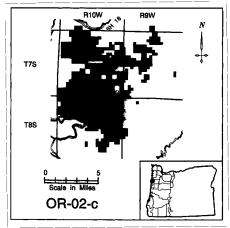
T.07S., R.09W. Willamette Meridian: SW1/4, W1/2 NW1/4, SE1/4 NW1/4, SW1/4 SE1/4 Section 3; SE1/4, E1/2 NE1/4, SW1/4 NE1/4, NE1/4 SW1/4 Section 4; SW1/4 SW1/4 Section 5; W1/2 SW1/4, SW1/4 NW1/4 Section 7; Section 8 except S1/2 SW1/4 SW1/4 SE1/4; Section 9 except N¹/₂ NE¹/₄, NE¹/₄ NW¹/₄, SE¹/₄ NE¹/₄, SW¹/₄ SE¹/₄, SE¹/₄ SW¹/₄; SW¹/₄ SW¹/₄ Section 10; Section 16 except E¹/₂ E¹/₂, NE¹/₄ NW¹/₄; S¹/₂, E¹/₂ NE¹/₄, SW¹/₄ NW¹/₄ Section 17; Section 18 except W1/2 W1/2, NE1/4 NE1/4; S1/2 SW1/4, NE1/4 SW1/4, SE1/4 NW1/4, NE1/4 NE1/4 Section 19; NE¹/₄, NW¹/₄ SE¹/₄ Section 20; W1/2 NW1/4, NE1/4 NW1/4, S1/2 SW1/4 Section 21; E1/2 SE1/4 Section 23; N1/2 NW1/4, SW1/4 NW1/4 Section 28; SE1/4 NE1/4 Section 29; N1/2 NW¹/₄, SW¹/₄ NW¹/₄, SW¹/₄ SE¹/₄ Section 30; Section 31 except N¹/₂ NW¹/₄, E¹/₂ SE¹/₄, NW1/4 SE1/4, SE1/4 NE1/4.

T.07S., R.10W. Willamette Meridian: Section 3 except N¹/₂, SE¹/₄ SE¹/₄; Section 4; Section 5 except W1/2 SW1/4; Section 7 except W¹/₂ W¹/₂; Sections 8–9; Section 10 except E¹/₂ NE¹/₄, SW¹/₄ NE¹/₄; N¹/₂ S¹/₂, E¹/₂ NE¹/₄, SW¹/₄ SW¹/₄ Section 11; Section 12 except NW1/4 NW1/4, SW1/4 SW1/4, SW1/4 NE1/4, NW¹/₄ SE¹/₄, SE¹/₄ NW¹/₄, NE¹/₄ SW¹/₄; Section 13 except NW¹/₄ NW¹/₄; Section 14 except N¹/₂ NW¹/₄, SW¹/₄ SW¹/₄, SE¹/₄ NE¹/₄; Section 15 except S1/2 S1/2; Section 16 except SE¹/₄ SE¹/₄; Section 17 except W¹/₂ SW¹/₄; NE¹/₄, E¹/₂ NW¹/₄ Section 18; S¹/₂ SE¹/₄, SE¹/₄ SW1/4 Section 20; NE1/4, SW1/4 Section 21; Sections 22–23; Section 24 except N¹/₂ SE¹/₄, S¹/₂ NE¹/₄, NE¹/₄ SW¹/₄; Section 25 except NW1/4; Section 26 except NW1/4; Sections 27-28; Section 29 except W¹/₂ NW¹/₄; SE¹/₄ SE¹/₄ Section 30; Section 31 except N¹/₂ NW¹/₄,

 $NW^{1/4}$ $NE^{1/4}$; Sections 32–35; $W^{1/2}$ $W^{1/2}$, $E^{1/2}$ $E^{1/2}$ Section 36.

T.08S., R.09W. Willamette Meridian: SE $^{1/4}$ NW $^{1/4}$ Section 5; NW $^{1/4}$ NW $^{1/4}$, SW $^{1/4}$ SW $^{1/4}$ Section 7; S $^{1/2}$ SW $^{1/4}$ Section 18; NW $^{1/4}$, NW $^{1/4}$ SW $^{1/4}$ Section 19.

T.08S., R.10W. Willamette Meridian: Sections 1–5; Section 6 except W $^{1}/_{2}$ SW $^{1}/_{4}$; Section 7 except NE $^{1}/_{4}$ SE $^{1}/_{4}$, SW $^{1}/_{4}$ SW $^{1}/_{4}$; Sections 8–14; Section 15 except SE $^{1}/_{4}$ SE $^{1}/_{4}$; E $^{1}/_{2}$ E $^{1}/_{2}$ E $^{1}/_{2}$ NW $^{1}/_{4}$ NE $^{1}/_{4}$, SW $^{1}/_{4}$ SE $^{1}/_{4}$ Section 16; Sections 23 except SW $^{1}/_{4}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ NE $^{1}/_{4}$; Section 24; NE $^{1}/_{4}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 25; Section 26 except SE $^{1}/_{4}$, E $^{1}/_{2}$ NE $^{1}/_{4}$; Section 27 except W $^{1}/_{2}$, W $^{1}/_{2}$ SE $^{1}/_{4}$; W $^{1}/_{2}$ NE $^{1}/_{4}$ Section 28.



Map and description of OR-02-d taken from United States Fish and Wildlife Service 1:100,000 map; Corvallis, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.07S., R.06W. Willamette Meridian: SW 1 /4, W 1 /2 Section 4; Section 5 except N 1 /2 NE 1 /4, NW 1 /4 NW 1 /4; Section 6 except NE 1 /4, N 1 /2 NW 1 /4, NW 1 /4 SE 1 /4; Section 7; S 1 /2 Section 9; Section 17 except NW 1 /4, W 1 /2 NE 1 /4, NW 1 /4 SW 1 /4.

T.07S., R.07W. Willamette Meridian: Section 1 except NW1/4; Sections 2–3; Section 4 except NW1/4, NW1/4 NE1/4; Section 5 except E1/2 NE1/4; NE1/4 NE1/4 Section 6; Section 7; N1/2 Section 8; Section 9; Section 11 except SE1/4 SW1/4, SW1/4 SE1/4; E1/2 NE1/4, NE1/4 SE1/4 Section 12; Section 13 except NE1/4 NE1/4, NE1/4 SE1/4; Section 15; Section 17; N1/2 Section 18; Section 19; Section 21; Section 23; N1/2 Section 25; N1/2 Section 26; Section 27; E1/2 SW1/4 Section 28; Section 29; Section 31; S1/2 SW1/4 Section 32; Section 33; NW1/4 Section 34.

T.07S., R.08W. Willamette Meridian: Section 1; SE 1 4 Section 12; Section 13; S 1 2, S 1 2 N 1 2 Section 14; Section 15 except W 1 2 W 1 2; Section 17; Section 18 except W 1 2 W 1 2; Section 19 except W 1 2 W 1 2; W 1 2 Section 20; N 1 3 NE 1 4 Section 22; Section 23; Section 25; Section 27 except NE 1 4 NE 1 4; Section 28 except E 1 2 SW 1 4, NW 1 4 SW 1 4; Section 29 except S 1 2 SE 1 4; Section 30 except W 1 2 W 1 2; Section 31 except W 1 2 W 1 2; Section 32 except NE 1 4, N 1 2 SE 1 4; Section 33 except SE 1 4 SE 1 4; Section 35 except N 1 2 N 1 2.

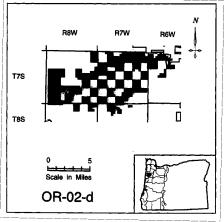
T.08S., R.07W. Willamette Meridian: $S\frac{1}{2}$ NE $\frac{1}{4}$ Section 3; N $\frac{1}{2}$ NI $\frac{1}{2}$, NI $\frac{1}{2}$ SWI $\frac{1}{4}$, SEI $\frac{1}{4}$ SWI $\frac{1}{4}$, SWI $\frac{1}{4}$ SEI $\frac{1}{4}$ Section 4; Section 5 except NI $\frac{1}{2}$ NEI $\frac{1}{4}$; NI $\frac{1}{2}$ NEI $\frac{1}{4}$, NEI $\frac{1}{4}$ NWI $\frac{1}{4}$ Section 9; NWI $\frac{1}{4}$ NEI $\frac{1}{4}$, NEI $\frac{1}{4}$ NWI $\frac{1}{4}$ Section 9

T.08S., R.08W. Willamette Meridian: Section 1 except SE $^{1}/_4$, NE $^{1}/_4$ SW $^{1}/_4$; E $^{1}/_2$ E $^{1}/_2$ Section 2; Section 3 except W $^{1}/_2$ W $^{1}/_2$; N $^{1}/_2$ Section 5; N $^{1}/_2$ N $^{1}/_2$ Section 6.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.07S., R.06W. Willamette Meridian: SE $^{1}/_{4}$ SW $^{1}/_{4}$, SW $^{1}/_{4}$ SE $^{1}/_{4}$ Section 4; E $^{1}/_{2}$ NW $^{1}/_{4}$ Section 9.



Map and description of OR-02-e taken from United States Fish and Wildlife Service 1:100,000 map; Yamhill River, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.01S., R.05W. Willamette Meridian: SE½, S½ SW½, S½ NE½ Section 19; N½ NE¼, NE½, NE½ NE½ Section 30.

T.02S., R.05W. Willamette Meridian: $SW^{1/4}$ NE^{1/4}, NE^{1/4} SW^{1/4} Section 5; $SW^{1/4}$ SE^{1/4} Section 7.

T.02S., R.06W. Willamette Meridian: NW¹/4, SW¹/4 SW¹/4 Section 25; S¹/2 S¹/2, S¹/2 NE¹/4, NE¹/4, NE¹/4, SE¹/4 NW¹/4 Section 26; Section 35; W¹/2 SW¹/4 Section 36.

T.02S., R.08W. Willamette Meridian: Section 31 except $W^{1}/_{2}$ $NW^{1}/_{4}$, $E^{1}/_{2}$ $SE^{1}/_{4}$, $NE^{1}/_{4}$ $NE^{1}/_{4}$; Section 32 except $NE^{1}/_{4}$, $SW^{1}/_{4}$ $SW^{1}/_{4}$; Section 33 except $NW^{1}/_{4}$ $NW^{1}/_{4}$; $W^{1}/_{2}$ $NW^{1}/_{4}$, $NW^{1}/_{4}$ $SW^{1}/_{4}$ Section 34.

 $\begin{array}{c} T.03S.,\ R.06W.\ Willamette\ Meridian:\ NE^{1/4}\ NW^{1/4}\ Section\ 1;\ Section\ 7;\ S^{1/2}\ SW^{1/4}\ Section\ 16;\ Sections\ 17-20;\ W^{1/2},\ W^{1/2}\ E^{1/2}\ Section\ 21;\ SW^{1/4},\ W^{1/2}\ SE^{1/4},\ SW^{1/4}\ NE^{1/4}\ Section\ 27;\ SW^{1/4},\ S^{1/2}\ NW^{1/4},\ NW^{1/4}\ SE^{1/4},\ SW^{1/4}\ NE^{1/4}\ Section\ 28;\ Section\ 29;\ Section\ 30\ except\ NE^{1/4};\ Section\ 31;\ W^{1/2}\ Section\ 32;\ Section\ 33\ except\ SW^{1/4},\ SW^{1/4}\ SE^{1/4};\ NE^{1/4}\ NE^{1/4}\ Section\ 35. \end{array}$

T.03S., R.07W. Willamette Meridian: $S^{1/2}$ Section 5; Section 7; $S^{1/2}$ NE^{1/4}, W^{1/2} NW^{1/4},

N½ SW¼, NW¼ SE¼, SE¼ SE¼ Section 8; Section 9; Section 10 except N½ NE¼, NW¼ NW¼; Section 11; Section 12 except E½ E½, SW¼ NE¼; Sections 13–15; S½ Section 16; Section 17; SW¼, N½ NE¼, W½ NW¼ Section 18; Section 19; Section 20 except W½ W½, SE¼ SW¼; Sections 21–25; E½ Section 26; Sections 27–29; E½ Section 30; Section 31; Section 32 except S½ SE¼, NE¼ SW¼; Section 33 except NW¼ NW¼, SW¼ SW¼; N½ NE¼ SE¼ Section 33 except NW¼ NW¼, SW¼ SW¼; N½ SE¼ Section 35; W½ SE¼ Section 35; W½ SE¼ Section 36.

T.03S., R.08W. Willamette Meridian: SW1/4, S1/2 SE1/4 Section 1; Section 3 except E¹/₂ SE¹/₄; S¹/₂ S¹/₂, W¹/₂ NW¹/₄ Section 4; Section 5 except W1/2 NW1/4, SE1/4 NW1/4, SW¹/₄ NE¹/₄; N¹/₂ NW¹/₄, E¹/₂ SE¹/₄ Section 6; Section 7 except N1/2 N1/2, SW1/4 NE1/4, SE1/4 NW1/4; Section 8 except S1/2 SE1/4; Section 9 except SW1/4 SW1/4; Section 10 except N1/2 NW¹/₄, NW¹/₄ NE¹/₄; Section 11; Section 13; NE1/4, N1/2 NW1/4, SE1/4 SW1/4 Section 14; Section 15 except SW1/4, SW1/4 NW1/4; NW1/4 NW¹/₄ Section 17; Section 18 except S¹/₂ SE1/4; NW1/4, N1/2 SW1/4, SE1/4 SW1/4, SW1/4 NE1/4 Section 19; SE1/4, S1/2 NE1/4, E1/2 SW1/4 Section 21; Section 22 except SW1/4 NE1/4, SE¹/₄ NW¹/₄; Section 23; Section 24 except N¹/₂ NE¹/₄, SE¹/₄ NE¹/₄; Section 25 except NE1/4 SW1/4, SW1/4 NE, NW1/4 SE1/4, SE1/4 NW1/4; N1/2 NE1/4, NW1/4 NW1/4, SE1/4 SE1/4; Section 26; Section 27 except NE1/4 SW1/4, SW¹/₄ NE¹/₄, NW¹/₄ SE¹/₄, SE¹/₄ NW¹/₄; SW¹/₄ SW1/4 Section 28; S1/2 S1/2 Section 29; S1/2, W¹/₂ NW¹/₄ Section 31; Section 32 except SW1/4; Sections 33-34; S1/2, W1/2 NW1/4 Section 35; W1/2 NE1/4 Section 36

T.03S., R.09W. Willamette Meridian: Section 1 except S $^{1/2}$ SE $^{1/4}$, NE $^{1/4}$ SE $^{1/4}$, SW $^{1/4}$ NW $^{1/4}$; SE $^{1/4}$ SE $^{1/4}$ Section 2; Section 11 except NW $^{1/4}$, W $^{1/2}$ NE $^{1/4}$, NW $^{1/4}$ SW $^{1/4}$; Sections 12–13; NE $^{1/4}$, NV $^{1/2}$ NW $^{1/4}$, E $^{1/2}$ SE $^{1/4}$ Section 14; E $^{1/2}$ NE $^{1/4}$ Section 23; N $^{1/2}$, NE $^{1/4}$ SE $^{1/4}$ Section 24.

T.04S., R.06W. Willamette Meridian: Section 5 except E½ E½, SW¼ SE¼; Sections 6–7; S½ SW¼, W½ SE¼ Section 18.

T.04S., R.07W. Willamette Meridian:
Section 1 except NE¹/4; W¹/2, N¹/2 NE¹/4
Section 2; Section 3 except NW¹/4; E¹/2 E¹/2,
NW¹/4 NE¹/4, NE¹/4 NW¹/4, SE¹/4 SW¹/4, SW¹/4
SE¹/4 Section 4; N¹/2, E¹/2 SE¹/4 Section 5;
Section 6 except NE¹/4, W¹/2 SE¹/4; Section 7;
SW ¹/4, NE¹/4 SE¹/4 Section 8; Section 9; N¹/2
Section 10; Section 11; Section 12 except
SE¹/4 SW¹/4; Section 13; Section 14 except
N¹/2 NW¹/4, S¹/2 NE¹/4, E¹/2 SE¹/4; Section 15
except SW¹/4 SW¹/4; E¹/2 E¹/2, NW¹/4 NE¹/4
Section 16; Section 17 except N¹/2 S¹/2;
Section 18 except NW¹/4.

T.04S., R.08 \dot{W} . Willamette Meridian: SE¹/₄ NE¹/₄, SE¹/₄ SE¹/₄, SW¹/₄ SW¹/₄ Section 1; Section 2 except SE¹/₄ NW¹/₄, E¹/₂ NE¹/₄, SW¹/₄ NE¹/₄, NE¹/₄ SE¹/₄, NW¹/₄ SW¹/₄; N¹/₂ N¹/₂ S¹/₂ SV¹/₂ SW¹/₄ NW¹/₄ Section 3; Section 4 except S¹/₂ SE¹/₄; Sections 5–8; Section 9 except N¹/₂ NE¹/₄; Section 10; Section 11; Section 12 except NE¹/₄ NE¹/₄, SW¹/₄ NW¹/₄, NW¹/₄ SW¹/₄; Sections 13–14; Section 15 except N¹/₂ NE¹/₄; Sections 16–25; Section 26 except W¹/₂ SW¹/₄; Section 27 except E¹/₂ SE¹/₄; Section 28–35; N¹/₂ Section 36.

T.04S., R.09W. Willamette Meridian: $S^{1/2}$ SE¹/₄, NE¹/₄ SE¹/₄ Section 1; SE¹/₄, SE¹/₄ SW¹/₄ Section 11; Section 12 except NW¹/₄ NE¹/₄,

SW¹/₄ NW¹/₄, N¹/₂ NW¹/₄; Section 13; E¹/₂, NE¹/₄ NW¹/₄ Section 14; Section 23 except N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄; Sections 24–26; SE¹/₄, E¹/₂ NE¹/₄, SW¹/₄ NE¹/₄, SE¹/₄ NW¹/₄ Section 27; NE¹/₄, SE¹/₄ SE¹/₄ Section 34; N¹/₂ N¹/₂, S¹/₂ S¹/₂, SW¹/₄ NW¹/₄, E¹/₂ SE¹/₄, SE¹/₄ NE¹/₄, NE¹/₄ Section 35; Section 36.

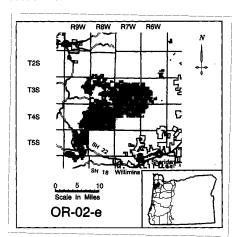
T.05S., R.09W. Willamette Meridian: Sections 1-2; NE1/4 NE1/4, W1/2 SW1/4, SE1/4 SW1/4, SW1/4 NW1/4, E1/2 SE1/4, SW1/4 SE1/4 Section 3; Section 4 except W1/2 W1/2; Section 9 except, S¹/₂, N¹/₂ SW¹/₄, SE¹/₄ SW¹/₄; Section 10–15; Section 16 except W¹/₂ W¹/₂; Section 21 except W¹/₂ NW¹/₄, NW¹/₄ SW ¹/₄; Section 22; Section 23 except SE1/4, SW1/4 NW¹/₄, NW¹/₄ SW¹/₄; Section 24 except W¹/₂ SW1/4; N1/2 NE1/4 Section 25; Section 26 except E1/2 E1/2; Section 27 except E1/2 NE1/4, S¹/₂ SW¹/₄, NW¹/₄ NW¹/₄; NE¹/₄ NW¹/₄ Section 28; Section 31 except N1/2 NW1/4, SW1/4 NW1/4; Section 32 except NE1/4 NE1/4; SW1/4, S¹/₂ NW¹/₄, SW¹/₄ SE¹/₄ Section 33; Section 34 except W¹/₂, NW¹/₄ SE¹/₄; Section 35 except NE1/4 NE1/4.

T.06S., R.09W. Willamette Meridian: $W^{1/2}$, $W^{1/2}$ NE $^{1/4}$ Section 2; $N^{1/2}$, $N^{1/2}$ SW $^{1/4}$, SW $^{1/4}$ Section 3; Section 4 except SE $^{1/4}$ SE $^{1/4}$; $N^{1/2}$ Section 5; $N^{1/2}$ NE $^{1/4}$, $N^{E}^{1/4}$ NW $^{1/4}$ Section 6; NE $^{1/4}$, E $^{1/2}$ NW $^{1/4}$ Section 9.

T.06S., R.10W. Willamette Meridian: $NE^{1/4}$ $NE^{1/4}$ Section 1.

Proposed Critical Habitat includes only State lands described within the following areas:

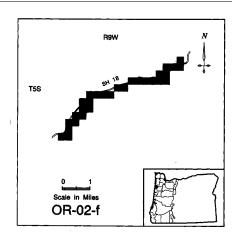
 $T.03S.,\,R.07W.$ Willamette Meridian: $N^{1}\!/_{2}$ Section 16.



Map and description of OR-02-f taken from United States Fish and Wildlife Service 1:100,000 map; Yamhill River, Oregon; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

T.06S., R.09W. Willamette Meridian: $E^{1/2}$ SE¹/₄ Section 11; S¹/₂ SW¹/₄, NE¹/₄ SE¹/₄ Section 12; W¹/₂ NW¹/₄ Section 13; N¹/₂ Section 14; S¹/₂ NE¹/₄, N¹/₂ SW¹/₄, NE¹/₄, NE¹/₄, SW¹/₄ Section 15; S¹/₂ Section 16; SE¹/₄ SE¹/₄ Section 17; E¹/₂ NE¹/₄, SW¹/₄ NE¹/₄, N¹/₂ SE¹/₄, SW¹/₄ SE¹/₄, SW¹/₄ Section 20; W¹/₂ NW¹/₄, NE¹/₄ NW¹/₄ Section 21; W¹/₂ NE¹/₄, E¹/₂ NW¹/₄ Section 29.



Map and description of OR-03-a taken from United States Fish and Wildlife Service 1:100,000 map; Corvallis, Oregon; 1995.

Proposed Critical Habitat includes only Private lands described within the following areas:

T.09S., R.09W. Willamette Meridian: $S^{1/2}$ SE¹/₄, NE¹/₄ SE¹/₄ Section 23; W¹/₂ NW¹/₄, NW¹/₄ SW¹/₄ Section 25; NE¹/₄ Section 26; W¹/₂ SW¹/₄ Section 34.

T.10S., R.09W. Willamette Meridian: $SW^{1/4}$ Section 15.

T.10S., R.10W. Willamette Meridian: $SE^{1/4}$ Section 14.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.09S., R.09W. Willamette Meridian: $SE^{1/4}$ SE^{1/4} Section 33.

T.10S., R.10W. Willamette Meridian: NW¹/₄ SE¹/₄ Section 2.

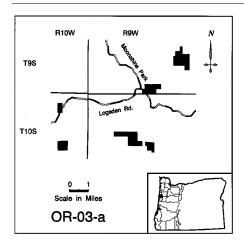
Proposed Critical Habitat includes only State lands described within the following areas:

T.09S., R.09W. Willamette Meridian: $E^{1/2}$ SW $^{1/4}$, NW $^{1/4}$ SE $^{1/4}$ Section 34.

 $T.10S.,\ R.09W.\ Willamette\ Meridian: \\ NW^1/4,\ N^1/2\ SW^1/4,\ NW^1/4\ SE^1/4\ Section\ 16; \\ N^1/2\ NE^1/4,\ NE^1/4\ NW^1/4\ Section\ 17.$

Proposed Critical Habitat includes only County lands described within the following areas:

T.10S., R.10W. Willamette Meridian: $SW^{1}\!\!/_{\!\!4}$ $SE^{1}\!\!/_{\!\!4}$ Section 2.



Map and description of OR-03-b taken from United States Fish and Wildlife Service 1:100,000 map; Corvallis, Oregon; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

T.10S., R.06W. Willamette Meridian: $W^{1/2}$ SW $^{1/4}$ Section 30.

T.10S., R.07W. Willamette Meridian: $S^{1/2}$ Section 25; $N^{1/2}$ Section 36.

T.11S., R.07W. Willamette Meridian: SW $^{1/4}$ SW $^{1/4}$ Section 15; S $^{1/2}$ N $^{1/2}$, SE $^{1/4}$ Section 16; Section 21 except S $^{1/2}$, SW $^{1/4}$ NW $^{1/4}$; S $^{1/2}$, NW $^{1/4}$ Section 29; Section 31; Section 32 except SE $^{1/4}$, NE $^{1/4}$ SW $^{1/4}$.

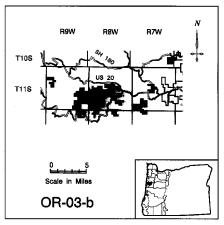
T.11S., R.08W. Willamette Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 14; Section 15 except $NE^{1/4}$, $NE^{1/4}$ $NW^{1/4}$; $S^{1/2}$ $N^{1/2}$, $N^{1/2}$ $S^{1/2}$, $S^{1/2}$, $SW^{1/4}$ Section 16; $SW^{1/4}$, $W^{1/2}$ $SE^{1/4}$ Section 17; $S^{1/2}$ $SE^{1/4}$, $E^{1/2}$ $SW^{1/4}$ Section 18; Sections 19–21; $W^{1/2}$, $S^{1/2}$ $SE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$, $NE^{1/4}$ $NE^{1/4}$ Section 22; $SW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$ Section 23; $SW^{1/4}$, $NW^{1/4}$ $SE^{1/4}$ Section 26; Section 27 except $SW^{1/4}$, $E^{1/2}$ $E^{1/2}$ $E^{1/4}$; $E^{1/2}$ $E^{1/4}$; $E^{1/2}$ $E^{1/4}$; $E^{1/2}$ $E^{1/4}$; $E^{1/4}$ $E^{1/4}$ $E^{1/4}$; $E^{1/4}$ $E^{1/4}$ $E^{1/4}$; $E^{1/4}$ $E^{1/4}$ $E^{1/4}$ Section 32; $E^{1/4}$ $E^{1/4}$ Section 33; $E^{1/2}$ $E^{1/4}$ Section 34; $E^{1/4}$ $E^{1/4}$ Section 35.

T.11S., R.09W. Willamette Meridian: $N^{1/2}$ NE $^{1/4}$ Section 5; S $^{1/2}$ Section 7; NW $^{1/4}$ NW $^{1/4}$ Section 17; SE $^{1/4}$, S $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ NE $^{1/4}$, SE $^{1/4}$ NW $^{1/4}$ Section 18; SE $^{1/4}$ Section 22; Section 23 except NW $^{1/4}$; Section 24 except W $^{1/2}$ NE $^{1/4}$, E $^{1/2}$ NW $^{1/4}$, Section 25; Section 26 except S $^{1/2}$ NW $^{1/4}$, N $^{1/2}$ SW $^{1/4}$; E $^{1/2}$ SE $^{1/4}$, SE $^{1/4}$ NE $^{1/4}$ Section 34; Section 35.

T.12S., R.07W. Willamette Meridian: Section 5 except S½, SW¼ NW¼.

 $\begin{array}{c} T.12S.,\,R.08W.\,\,Willamette\,\,Meridian;\\ NW^{1/4}\,\,SW^{1/4}\,\,Section\,\,2;\,\,NE^{1/4},\,E^{1/2}\,\,NW^{1/4},\,\,N^{1/2}\\ SE^{1/4}\,\,Section\,\,3;\,\,NW^{1/4}\,\,Section\,\,5;\,\,E^{1/2}\,\,E^{1/2},\\ SW^{1/4}\,\,NE^{1/4}\,\,Section\,\,6. \end{array}$

T.12S., R.09W. Willamette Meridian: S½ SW¼, N½ NW¼, SE¼ NW¼, NW¼ NE¼ Section 1; E½, E½ NW¼ Section 2.



Map and description of OR-03-c taken from United States Fish and Wildlife Service 1:100,000 map; Corvallis, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.08S., R.06W. Willamette Meridian: SE $^{1}/_{4}$ SE $^{1}/_{4}$, SW $^{1}/_{4}$ SW $^{1}/_{4}$ Section 30; Section 31 except S $^{1}/_{2}$ S $^{1}/_{2}$, N $^{1}/_{2}$ SE $^{1}/_{4}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$, W $^{1}/_{2}$ NW $^{1}/_{4}$ Section 33.

T.08S., R.07W. Willamette Meridian: Section 31 except S¹/₂ SE¹/₄, NE¹/₄ NE¹/₄, NW¹/₄ NW¹/₄, SW¹/₄ SW¹/₄.

T.09S., R.06W. Willamette Meridian: $N^{1/2}$ $N^{1/2}$, $S^{1/2}$ $NW^{1/4}$ Section 5; $NE^{1/4}$, $N^{1/2}$ $NW^{1/4}$, $NE^{1/4}$ Section 7.

T.09S., R.07W. Willamette Meridian: Section 1 except W $\frac{1}{2}$ NW $\frac{1}{4}$; Section 3 except NE $\frac{1}{4}$; SE $\frac{1}{4}$ SW $\frac{1}{4}$, SW $\frac{1}{4}$ Section 4; Section 9 except SE $\frac{1}{4}$ SE $\frac{1}{4}$; Section 11; Section 13; W $\frac{1}{2}$, W $\frac{1}{2}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 15; SE $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$ Section 17; NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 21; E $\frac{1}{2}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 23; Section 29 except SE $\frac{1}{4}$; Section 31; S $\frac{1}{2}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 33; W $\frac{1}{2}$ W $\frac{1}{2}$, NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 35.

T.09S., R.08W. Willamette Meridian: NW 1 /4, W 1 /2 SW 1 /4 Section 11; Section 27 except N 1 /2 NE 1 /4, SE 1 /4 NE 1 /4; Section 35 except S 1 /2 NE 1 /4, NE 1 /4 NW 1 /4.

T.10S., R.05W. Willamette Meridian: N¹/₂ SE¹/₄ Section 29.

 $T.10S.,\ R.07W.$ Willamette Meridian: $N^{1/2}$ $N^{1/2}$ Section 1; $N^{1/2}$ $N^{1/2}$ Section 5; $S^{1/2}$ $N^{E^{1/4}},$ $N^{1/2}$ SE^{1/4}, SW^{1/4} SE^{1/4}, SE^{1/4} SW^1/4 Section 18.

Proposed Critical Habitat includes only State lands described within the following areas:

T.08S., R.07W. Willamette Meridian: SE 1 /4 Section 11; SE 1 /4 Section 12; N 1 /2, W 1 /2 SE 1 /4 Section 13; E 1 /2 Section 14.

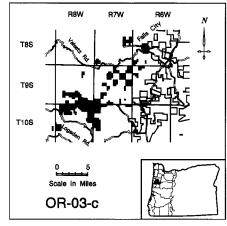
T.09S., R.08W. Willamette Meridian: Section 28 except N $^{1}/_{2}$ N $^{1}/_{2}$; N $^{1}/_{2}$ S $^{1}/_{2}$, NW $^{1}/_{4}$, S $^{1}/_{2}$ NE $^{1}/_{4}$ Section 29; SE $^{1}/_{4}$ Section 32; N $^{1}/_{2}$ NW $^{1}/_{4}$ Section 33; Section 34 except NW $^{1}/_{4}$; Section 36 except N $^{1}/_{2}$ N $^{1}/_{2}$.

T.10S., R.07 \dot{W} . Willamette Meridian: Section 6; N 1 /2 N 1 /2 Section 7; NW 1 /4, W 1 /2 SW 1 /4, NE 1 /4 SW 1 /4, NW 1 /4 NE 1 /4 Section 18; Section 19 except W 1 /2 SW 1 /4.

T.10S., R.08Ŵ. Willamette Meridian: Section 1 except SW¹/4 SE¹/4; Section 2; NE¹/₄, N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄, NE¹/₄ SE¹/₄ Section 3; Section 4 except SW¹/₄ SE¹/₄, SE¹/₄ SW¹/₄; Section 5; E¹/₂ Section 6; NE¹/₄ Section 7; NE¹/₄, E¹/₂ NW¹/₄ Section 8; NW¹/₄, NE¹/₄ Section 9; W¹/₂ NW¹/₄ Section 10; Section 12; Section 13 except S¹/₂ SW¹/₄, SW¹/₄ SE¹/₄; E¹/₂ NE¹/₄ Section 14; SW¹/₄ SW¹/₄ Section 18; Section 19; E¹/₂ NE¹/₄, N¹/₂ SE¹/₄ Section 24.

Proposed Critical Habitat includes only Private lands described within the following areas:

T.09S., R.08W. Willamette Meridian: $S^{1/2}$ SW $^{1/4}$ Section 29; N $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ NW $^{1/4}$ Section 35.



Map and description of OR-04-a taken from United States Fish and Wildlife Service 1:100,000 map; Corvallis, Waldport and Eugene, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.11S., R.10W. Willamette Meridian: $SE^{1/4}$ SE^{1/4} Section 35.

T.12S., R.09W. Willamette Meridian: $N^{1/2}$ $N^{1/2}$ Section 6; Section 7 except $NW^{1/4}$ $NE^{1/4}$; Section 8 except $NE^{1/4}$ $NW^{1/4}$, $W^{1/2}$ $NE^{1/4}$, $NE^{1/4}$ $NE^{1/4}$, $NE^{1/4}$ $NE^{1/4}$; Self4 Section 14; S^{1/2} SW^{1/4} Section 15; SE^{1/4} SE^{1/4} Section 16; Sections 17–18; Section 19 except $W^{1/2}$ $W^{1/2}$, $NE^{1/4}$ $NE^{1/4}$ $NE^{1/4}$ Section 20 except SE^{1/4} $NW^{1/4}$; Section 21 except $N^{1/2}$ $NW^{1/4}$, $NW^{1/4}$ $NE^{1/4}$; Section 22 except $NE^{1/4}$ $NE^{1/4}$; Section 23 except $N^{1/2}$ $NW^{1/4}$; $E^{1/2}$ Section 24; Sections 26–28; $N^{1/2}$ $N^{1/2}$ $SE^{1/4}$ $NE^{1/4}$ $SE^{1/4}$ $SE^{1/4}$ Section 32; $W^{1/2}$ Section 33; $NE^{1/4}$ $NW^{1/4}$ Section 34; $S^{1/2}$ $SW^{1/4}$, $NE^{1/4}$ $NW^{1/4}$ Section 34; $S^{1/2}$ $SW^{1/4}$, $NE^{1/4}$ $NW^{1/4}$ Section 35.

T.12S., R.10W. Willamette Meridian: Sections 1–2; Section 3 except $E^{1/2}$ NW $^{1/4}$, S $^{1/2}$ NE $^{1/4}$; Section 4; S $^{1/2}$, E $^{1/2}$ NE $^{1/4}$, SW $^{1/4}$ NW $^{1/4}$ Section 5; S $^{1/2}$ SE $^{1/4}$ Section 6; Sections 7–8; N $^{1/2}$, N $^{1/2}$ SE $^{1/4}$ Section 9; N $^{1/2}$ Section 10; Section 11 except SW $^{1/4}$ SW $^{1/4}$; Section 12; N $^{1/2}$, N $^{1/2}$, SW $^{1/4}$ NE $^{1/4}$, NE $^{1/4}$ SE $^{1/4}$, NW $^{1/4}$ Section 14; Section 16; Section 17; Section 18 except N $^{1/2}$ S $^{1/2}$; Sections 19–21; Section 25 except NW $^{1/4}$; Section 28; Section 29 except SW $^{1/4}$, NW $^{1/4}$ SE $^{1/4}$; N $^{1/2}$, NW $^{1/4}$ SW $^{1/4}$ Section 30; NE $^{1/4}$ Section

31; Section 32 except $W^{1/2}$ $NW^{1/4}$, $NE^{1/4}$ $NW^{1/4}$, $SW^{1/4}$ $SW^{1/4}$; Section 33 except $S^{1/2}$ $SE^{1/4}$, $SE^{1/4}$ $SW^{1/4}$; $SE^{1/4}$, $E^{1/2}$ Section 35.

T.12S., R.11W. Willamette Meridian: $S^{1/2}$ NW¹/₄, $S^{1/2}$ SW¹/₄, NE¹/₄ SW¹/₄ Section 9; SE¹/₄, S¹/₂ SW¹/₄, NE¹/₄ SW¹/₄ Section 11; Section 12; Section 13 except SE¹/₄ SE¹/₄; N¹/₂, N¹/₂ SE¹/₄, S¹/₂ S¹/₂ Section 14; NE¹/₄ Section 22; Sections 23–24; Section 25 except W¹/₂ SW¹/₄, SW¹/₄ NW¹/₄; Section 26 except SE¹/₄ NE¹/₄; E¹/₂ Section 27; Section 35; Section 36 except E¹/₂ SE¹/₄, SE¹/₄ NE¹/₄.

T.13S., R.09 \dot{W} . Willamette Meridian: Section 2 except SE $^{1}4$; NE $^{1}4$ Section 4; SW $^{1}4$ Section 5; Section 6–7; W $^{1}2$ Section 8: Sections 18–19; Section 20 except N $^{1}2$, NE $^{1}4$ SE $^{1}4$; Section 28 except NE $^{1}4$, NE $^{1}4$ NW $^{1}4$; Section 29 except NW $^{1}4$ SW $^{1}4$; Sections 30–33; W $^{1}2$ W $^{1}2$, SE $^{1}4$ SW $^{1}4$, SW $^{1}4$ SE $^{1}4$ Section 34; SW $^{1}4$ SE $^{1}4$ Section 35.

T.13S., R.10W. Willamette Meridian: Section 1; Section 2; E¹/₂ E¹/₂ Section 3; NW¹/₄ NW¹/₄ Section 4; NE¹/₄, NE¹/₄ NW¹/₄ Section 5; W¹/₂ NW¹/₄ Section 6; S¹/₂ NE¹/₄, NE¹/₄ SE¹/₄, S¹/₂ S¹/₂ Section 7; Section 10 except NW1/4, NW1/4 SW1/4; Sections 11-15; Section 16 except NW1/4, NW1/4 NE1/4; SE1/4, SW¹/₄ SW¹/₄, E¹/₂ SW¹/₄, SW¹/₄ NE¹/₄ Section 17; Sections 18-25; Section 26 except SW1/4 SW1/4; N1/2 NE1/4, SE1/4 NE1/4, SE1/4 SE1/4 Section 27; SE1/4 NW1/4, W1/2 NW1/4, SW1/4 SE1/4 Section 28; Section 29; N1/2, N1/2 SE1/4, NE1/4 SW1/4, SW1/4 SW1/4 Section 30; S1/2, S1/2 NE1/4 Section 31; Section 32 except W1/2 SE¹/₄; Section 33 except E¹/₂ E¹/₂, S¹/₂ SE¹/₄, NE¹/₄ SE¹/₄, NE¹/₄ NE¹/₄ Section 34; Section 35 except SE1/4 NE1/4, NE1/4 NW1/4; SW1/4, N¹/₂ SE¹/₄, N¹/₂ NE¹/₄, SE¹/₄ NW¹/₄ Section 36.

T.13S., R.10 $\frac{1}{2}$ W. Willamette Meridian: N $\frac{1}{2}$ Section 6.

T.13S., R.11W. Willamette Meridian: Section 1 except SE1/4 SE1/4; Section 2 except NW1/4 NW1/4; Section 11 except W1/2 SW1/4, SE1/4 SW1/4, SW1/4 SE1/4; W1/2, W1/2 NE1/4, E1/2 SE1/4 Section 12; Section 13 except W1/2 SW1/4, NE1/4 NW1/4, SW1/4 NW1/4, S1/2 SE1/4; E1/2, N1/2 NE 1/4, SW1/4 SE1/4 Section 14; Section 15 except W1/2 NW1/4, NE1/4 NW1/4, NW¹/₄ SW¹/₄; N¹/₂ NE¹/₄ Section 22; N¹/₂ NW1/4, SW1/4 NE1/4 Section 23; except N1/2 NE1/4, S1/2 NW1/4, NE1/4 NW1/4 Section 24; N¹/₂ N¹/₂, SW¹/₄, S¹/₂ SE¹/₄, N¹/₂ NW¹/₄ Section 25; SW1/4, SW1/4 SE1/4 Section 26; NW1/4 SE1/4 Section 33; Section 34 except W1/2 W1/2; Section 35; Section 36 except SE¹/₄, E¹/₂ NE1/4.

T.14S., R.08W. Willamette Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 7.

T.14S., R.09W. Willamette Meridian: Section 2 except NE¹/₄, SE¹/₄ SE¹/₄; Section 3 except S1/2 SW1/4; Section 4 except S1/2 SE1/4; Section 5 except S1/2 SW1/4, SW1/4 SE1/4; Section 6 except S1/2 NW1/4, N1/2 SW1/4, SW1/4 NW1/4; Section 7 except SE1/4 SW1/4, NW¹/₄ SE¹/₄, SE¹/₄ NE¹/₄; NW¹/₄, SE¹/₄, S¹/₂ SW1/4 Section 8; Section 9 except W1/2 NW1/4; Section 10 except N¹/₂ NE¹/₄; SW
1/₄, S¹/₂ NW¹/₄, S¹/₂ SE¹/₄ Section 11; S¹/₂ S¹/₂ Section 12; Section 13 except SE¹/₄; Sections 14–15; Section 16 except SW1/4, W1/2 NW1/4; Section 18 except $N^{1/2}$ $\hat{N}^{1/2}$, $N^{1/2}$ $SE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$, SE1/4 SW1/4, SE1/4 SE1/4; N1/2, NE1/4 SE1/4 Section 19; Section 23 except SW1/4, E1/2 NW¹/₄; W¹/₂ Section 24; Section 25; E¹/₂ Section 26; S1/2 NW1/4 Section 36.

T.14S., R.10W. Willamette Meridian: Section 1 except N¹/₂ SE¹/₄, E¹/₂ NE¹/₄;

Section 2; Section 3 except N $^{1}/_{2}$ SE $^{1}/_{4}$; Section 4; Section 5 except W $^{1}/_{2}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ SW $^{1}/_{4}$ NW $^{1}/_{4}$ SE $^{1}/_{4}$; Sections 6–7; Section 8 except SW $^{1}/_{4}$ SW $^{1}/_{4}$; Sections 9–11; Section 12 except NW $^{1}/_{4}$ NW $^{1}/_{4}$; Sections 13–15; Section 16 except S $^{1}/_{2}$ SW $^{1}/_{4}$; Section 17 except S $^{1}/_{2}$ SE $^{1}/_{4}$, NW $^{1}/_{4}$ NW $^{1}/_{4}$; Section 18 except S $^{1}/_{2}$ SV $^{1}/_{2}$; NE $^{1}/_{4}$ Section 22; Section 23 except E $^{1}/_{2}$ SW $^{1}/_{4}$, SW $^{1}/_{4}$, NW $^{1}/_{4}$, SE $^{1}/_{4}$ SW $^{1}/_{4}$; Section 24 except NE $^{1}/_{4}$ SE $^{1}/_{4}$; N $^{1}/_{2}$ N $^{1}/_{2}$, SE $^{1}/_{4}$ NW $^{1}/_{4}$ Section 25.

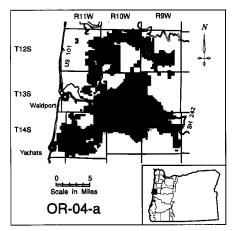
T.14S., R.11W. Willamette Meridian: Sections 1-2; N1/2 NE1/4 Section 3; S1/2 NW1/4, SW1/4 NE1/4 Section 4; Section 5 except SE1/4, NE1/4 SW1/4; NE1/4, E1/2 SE1/4, E1/2 NW1/4 Section 6; Section 7; Section 8 except N1/2 NE¹/₄; S¹/₂ S¹/₂, NE¹/₄ SE¹/₄ Section 9; Section 10 except N1/2 NW1/4, SW1/4 SW1/4, NW1/4 NE¹/₄; Sections 11–12; W¹/₂ W¹/₂ Section 13; Sections 14–21; Section 22 except NE¹/₄, S¹/₂ NW1/4, N1/2 SW1/4; Section 23 except SE1/4 SE1/4: W1/2 NW1/4. NW1/4 SW1/4. E1/2 SW1/4 Section 24; E1/2 NW1/4, N1/2 SW1/4, Section 25; W1/2 NE1/4, W1/2 SW1/4, W1/2 SE1/4, SE1/4 SW1/4, NE1/4 NE1/4 Section 26; Sections 27-30; N1/2, NE1/4 SW1/4 Section 31; Section 32 except $SE^{1/4}$, $S^{1/2}$ $SW^{1/4}$, $S^{1/2}$ $NE^{1/4}$; $N^{1/2}$ Section 33; N¹/₂ N¹/₂, SW¹/₄ NW¹/₄ Section 34; N1/2 NW1/4 Section 35.

 $\begin{array}{c} T.14S.,\ R.12W.\ Willamette\ Meridian:\ S^{1/2}\\ SE^{1/4}\ Section\ 1;\ Section\ 12\ except\ W^{1/2}\ W^{1/2},\\ NE^{1/4}\ NW^{1/4},\ SE^{1/4}\ SW^{1/4};\ Section\ 13\ except\\ N^{1/2}\ NW^{1/4};\ E^{1/2}\ SE^{1/4},\ SE^{1/4}\ NE^{1/4}\ Section\ 14;\\ SE^{1/4},\ E^{1/2}\ NE^{1/4},\ E^{1/2}\ SW^{1/4}\ Section\ 23;\\ Sections\ 24-25. \end{array}$

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $T.14S.,\,R.09W.$ Willamette Meridian: $SE^{1/\!_4}$ $NE^{1/\!_4}$ Section 8.



Map and description of OR–04-b taken from United States Fish and Wildlife Service 1:100,000 map; Waldport, Eugene, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.14S., R.09W. Willamette Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 27; $SW^{1/4}$, $S^{1/2}$ $SE^{1/4}$, $NW^{1/4}$

SE¹/₄, SW¹/₄ NW¹/₄ Section 28; Section 29 except N¹/₂ NE¹/₄; SE¹/₄, E¹/₂ SW¹/₄, SW¹/₄ NW¹/₄, NW¹/₄ SW¹/₄ Section 30; Section 31 except W¹/₂ NW¹/₄, NE¹/₄ SW¹/₄; Sections 32–33; Section 34 except W¹/₂ NE¹/₄; S¹/₂ S¹/₂, SW¹/₄ NW¹/₄, E¹/₂ NW¹/₄ Section 35.

T.14S., R.10W. Willamette Meridian: S¹/₂ SW¹/₄, SW¹/₄ SE¹/₄ Section 20; SE¹/₄ NE¹/₄ Section 25; Section 29 except E¹/₂ SE¹/₄; Sections 30–31; Section 32 except E¹/₂ E¹/₂.

T.14S., R.11W. Willamette Meridian: Section 25; SE¹/4 SE¹/4 Section 34; SE¹/4, E¹/2 SW¹/4, SW¹/4 SW¹/4 Section 35; Section 36 except NW¹/4, N¹/₂ NE¹/₄.

T.15S., R.09W. Willamette Meridian: E¹/₂ $NE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$, $SW^{1/4}$ $SW^{1/4}$ Section 1; Sections 2-5; Section 6 except S¹/₂ SW¹/₄, SW1/4 SE1/4; E1/2 E1/2 Section 7; N1/2 N1/2, S1/2 S1/2, NE1/4 SE1/4 Section 8; Section 9 except $S^{1/2}$ SW¹/₄; Section 10 except W¹/₂ SE¹/₄, $NE^{1/4}$ $SE^{1/4}$; Section 11; $N^{1/2}$ $SW^{1/4}$, $S^{1/2}$ NW1/4, NW1/4 NW1/4, E1/2 SE1/4, SE1/4 NE1/4 Section 12; Section 13; Section 14 except NE¹/₄ SE¹/₄; Section 15; Section 16 except W¹/₂ SW¹/₄, N¹/₂ SE¹/₄, SW¹/₄ NE¹/₄, NE¹/₄ NW1/4; Section 17 except SE1/4; Section 18 except NW¹/₄, W¹/₂ SE¹/₄, NW¹/₄ NE¹/₄; Section 19 except E¹/₂ SE¹/₄, SE¹/₄ NE¹/₄, NW¹/₄ NW¹/₄; E¹/₂ SE¹/₄, N¹/₂ NW¹/₄, SE¹/₄ NE¹/₄ Section 20; Section 21 except N¹/₂ NW¹/₄; Section 22 except SW¹/₄, SE¹/₄ NW¹/₄; Sections 23-26; E¹/₂, E¹/₂ SW¹/₄, SW¹/₄ SW¹/₄ Section 27; Section 28; E1/2 Section 29; N1/2 NW1/4, NW1/4 NE1/4 Section 30; Section 32 except $E^{1/2}$ $E^{1/2}$; Sections 33–36.

T.15S., R.10W. Willamette Meridian:
Section 1 except N¹/₂ NW¹/₄, W¹/₂ NE¹/₄, E¹/₂
SE¹/₄; E¹/₂ SE¹/₄ Section 2; SW¹/₄ SW¹/₄
Section 4; Sections 5–7; Section 8 except
NE¹/₄ SW¹/₄; SW¹/₄, W¹/₂ NW¹/₄, SE¹/₄
NW¹/₄, W¹/₂ SE¹/₄ Section 9; NE¹/₄ NE¹/₄
Section 11; N¹/₂ NW¹/₄, SE¹/₄ NW¹/₄, NW¹/₄
NE¹/₄ Section 12; W¹/₂ SW¹/₄, NW¹/₄ NW¹/₄
Section 14; SE¹/₄, E¹/₂ SW¹/₄, NE¹/₄ NE¹/₄ Section 15; Sections 16–22; NE¹/₄ SE¹/₄
Section 24; SW¹/₄ Section 25; Section 26
except NE¹/₄; Sections 27–32; Section 33
except SE¹/₄ SE¹/₄ Section 34 except S¹/₂ S¹/₂;
N¹/₂, NE¹/₄ SE¹/₄ Section 35.

T.15S., R.11W. Willamette Meridian: NW¹/₄, N¹/₂ SW¹/₄, NW¹/₄ NE¹/₄, SW¹/₄ SE¹/₄ Section 1; N1/2 N1/2, S1/2 SE1/4, SE1/4 SW1/4 Section 2; E1/2 E1/2, NW1/4 NW1/4 Section 3; Section 4 except N1/2 NW1/4; N1/2 SW1/4, N1/2 NE¹/₄, S¹/₂ NW¹/₄ Section 5; SW¹/₄, W¹/₂ NW¹/₄, SE¹/₄ NW¹/₄, S¹/₂ NE¹/₄, W¹/₂ SE¹/₄, NE1/4 SE1/4 Section 6; W1/2, W1/2 SE1/4 Section 7; NE¹/₄, S¹/₂ NW¹/₄, NE¹/₄ SW¹/₄, NE¹/₄ SE¹/₄ Section 8; Section 9 except N1/2 NE1/4, NE1/4 NW¹/₄, SE¹/₄ NE¹/₄; Section 10; Section 11 except, NE1/4 SE1/4, SE1/4 NE1/4; Section 12 except SE1/4 SW1/4; Section 13 except, N1/2 NW¹/₄, SE¹/₄ NW¹/₄; Section 14; Section 15 except, SW1/4 NW1/4; N1/2 NW1/4, SW1/4 NW1/4 Section 18; NE¹/₄ NE¹/₄ Section 21; Section 22 except SW1/4, E1/2 NE1/4, NW1/4 SE1/4; Sections 23-26; Section 27 except N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄; Section 28 except N¹/₂ NE¹/₄, SE¹/₄ NE¹/₄; S¹/₂, SE¹/₄ NE¹/₄ Section 29; S1/2 Section 30; Section 31 except N1/2 NW1/4, NW¹/₄ NE¹/₄, SE¹/₄ NE¹/₄; Section 32 except S¹/₂ N¹/₂, NE¹/₄ SE¹/₄; Section 33 except S¹/₂ SE1/4; NW1/4, N1/2 SW1/4, W1/2 NE1/4, NW1/4 SE¹/₄ Section 34; Section 35 except SW¹/₄, W¹/₂ NW¹/₄, SE¹/₄ NW¹/₄, N¹/₂ NE¹/₄; Section

T.15S., R.12W. Willamette Meridian: Section 1 except N 1 /2 NW 1 /4; Section 2–3; Section 11 except SE 1 /4 SE 1 /4; Section 12 except S 1 /2 SW 1 /4; Section 13 except NW 1 /4, SW 1 /4 NE 1 /4; N 1 /2 NW 1 /4, SE 1 /4 NW 1 /4, NW 1 /4 Section 14; NE 1 /4 SE 1 /4, SW 1 /4 Section 22; N 1 /2 NE 1 /4, NE 1 /4 NW 1 /4 Section 25 except N 1 /2 NE 1 /4, NE 1 /4 NW 1 /4; S 1 /2 NE 1 /4, S 1 /2 NW 1 /4, NE 1 /4 NW 1 /4 Section 26; E 1 /2 E 1 /2 Section 27; Section 34–35; Section 36 except N 1 /2 N 1 /2.

T.16S., R.09W. Willamette Meridian: Section 1 except N 1 /2 S 1 /2; Sections 2–5; S 1 /2 Section 6; Sections 7–15; Section 16 except SE 1 /4; Section 17; Section 18 except SW 1 /4 SW 1 /4; Section 19; NE 1 /4, E 1 /2 W 1 /2, NW 1 /4 NW 1 /4 Section 21; Sections 22–24; NE 1 /4, NV 1 /4 Section 22; Sections 22–24; NE 1 /4, NW 1 /4 SW 1 /4, SE 1 /4 NW 1 /4 Section 25; Section 26 except S 1 /2 SE 1 /4, SW 1 /4 NW 1 /4; Section 30; Section 31 except SW 1 /4, SE 1 /4 NW 1 /4, SW 1 /4 NE 1 /4; Sections 32–34; Section 35 except NE 1 /4, SW 1 /4 SW 1 /4 SW 1 /4 NV 1 /2 SE 1 /4 NE 1 /4 Section 36.

T.16S., R.10W. Willamette Meridian: SE¹/₄, SE1/4 SW1/4, SE1/4 NE1/4 Section 1; S1/2 SE1/4, NE1/4 NE1/4, SW1/4 Section 4; Section 5 except SE¹/₄ NE¹/₄; Sections 6–8; Section 9 except S¹/₂ SE¹/₄; Section 10 except SW¹/₄ SW¹/₄, N¹/₂ NE¹/₄; NE¹/₄ SE¹/₄ Section 11; Section 12 except W1/2 NW1/4; Section 13 except S1/2 SE¹/₄, SE¹/₄ SW¹/₄, SW¹/₄ NW¹/₄; Section 14; Section 15 except SE1/4 SW1/4, SW1/4 SE1/4, N¹/₂ NE¹/₄; Section 16 except N¹/₂ SE¹/₄; Section 17-21; Section 22 except W1/2 NE1/4, NW¹/₄ SE¹/₄; Section 23; Section 24 except NW¹/₄ NE¹/₄, E¹/₂ NW¹/₄, NE¹/₄ SW¹/₄; N¹/₂ N¹/₂, E¹/₂ SE¹/₄, W¹/₂ SW¹/₄ Section 25; Section 26 except S1/2 SW1/4; Section 27 except E1/2 SE1/4, SE1/4 NE1/4; Section 28; Section 29 except SW1/4 SE1/4, SE1/4 SW1/4; Section 30 except NW1/4 SE1/4, NE1/4 SW1/4, $E^{1/2}$ SE^{1/4}; Section 31; Section 32 except N^{1/2} N¹/₂; Section 33 except W¹/₂ NW¹/₄, SE¹/₄ NW¹/₄, E¹/₂ NE¹/₄, SW¹/₄ NE¹/₄; NE¹/₄ NW¹/₄, W1/2 W1/2 Section 34; N1/2 NE1/4 Section 35; SE1/4 NE1/4 Section 36.

T.16S., R.11W. Willamette Meridian: NE¹/₄, E1/2 NW1/4, E1/2 SE1/4 Section 1; Section 2 except E1/2 E1/2, NW1/4 NW1/4; W1/2 Section 3; Section 4-6; N¹/₂ NE¹/₄, SE¹/₄ NE¹/₄, NE¹/₄ NW¹/₄ Section 8; N¹/₂ Section 9; Section 10 except SE1/4 SE1/4; Section 11 except S1/2 S1/2; Section 12 except E¹/₂ NW¹/₄, NW¹/₄ NE¹/₄; Section 13; Section 14 except W1/2 NW1/4, NE¹/₄ NW¹/₄ NW¹/₄ NE¹/₄; SE¹/₄ Section 15; SW1/4 SW1/4 Section 18; Section 19 except NE¹/₄ SE¹/₄; S¹/₂ SW¹/₄, W¹/₂ SE¹/₄ Section 20; S¹/₂ SE¹/₄, NE¹/₄ SW¹/₄, E¹/₂ SW¹/₄ Section 21; Section 22 except NW1/4 NW1/4; Sections 23-26; Section 27 except E1/2 NW1/4, NW1/4 NE1/4; Section 28; Section 29 except NE1/4 NE1/4; Sections 30-36.

 $\begin{array}{c} T.16S.,\ R.12W.\ Willamette\ Meridian: \\ Sections\ 1-2;\ S^{1/2}\ SE^{1/4},\ E^{1/2}\ SW^{1/4}\ Section\ 3; \\ NE^{1/4},\ N^{1/2}\ SE^{1/4},\ SW^{1/4}\ SE^{1/4},\ W^{1/2}\ SW^{1/4}\\ Section\ 10;\ N^{1/2},\ N^{1/2}\ SW^{1/4}\ Section\ 11;\ N^{1/2}\\ N^{1/2}\ Section\ 12;\ SE^{1/4},\ W^{1/2}\ SW^{1/4}\ Section\ 13; \\ N^{1/2}\ NE^{1/4}\ Section\ 22;\ Section\ 23\ except\ N^{1/2}\\ NE^{1/4};\ Section\ 24-25;\ Section\ 26\ except\ S^{1/2}\\ S^{1/2},\ NW^{1/4}\ SW^{1/4},\ SW^{1/4}\ NW^{1/4};\ Section\ 35\ except\ SW^{1/4}\ SW^{1/4};\ Section\ 36. \end{array}$

T.17S., R.08W. Willamette Meridian: $NW^{1/4}$ SE^{1/4} Section 18.

T.17S., R.09W. Willamette Meridian: Section 1 except E¹/₂ SE¹/₄, SW¹/₄ SE¹/₄;

Section 2 except E1/2 W1/2, SW1/4 NE1/4; Section 3 except S1/2 SE1/4, NE1/4 SE1/4, SE1/4 NE1/4; Section 4 except S1/2 SW1/4, SW1/4 SE1/4; Section 5; Section 6 except NW1/4; Section 7 except NW1/4 SW1/4; Section 8; W1/2 SW¹/₄, NE¹/₄ SW¹/₄, E¹/₂ NE¹/₄ Section 9; N¹/₂ NW1/4, NW1/4 NE1/4 Section 10; W1/2 NE1/4, $E^{1/2}$ NW¹/₄, NE¹/₄ NE¹/₄, SW¹/₄ SW¹/₄ Section 11; S1/2 SE1/4 Section 14; W1/2 NW1/4, NW1/4 SW1/4 Section 16; Section 17 except W1/2 SE¹/₄, SE¹/₄ SW¹/₄; Sections 18–19; Section 20 except E1/2 E1/2, NW1/4 NE1/4; N1/2 Section 29; N¹/₂ N¹/₂, W¹/₂ SW¹/₄, SE¹/₄ SW¹/₄ Section 30; Section 31 except S1/2 NE1/4, NE1/4 SE1/4; E1/2 NE¹/₄, SW¹/₄ NW¹/₄ Section 32; S¹/₂ SE¹/₄ Section 33; S1/2 S1/2 Section 34; S1/2 SE1/4, SE1/4 SW1/4 Section 35.

T.17S., R.10W. Willamette Meridian: SE1/4 SE1/4 Section 1; SE1/4 NW1/4 Section 2; Section 3 except E¹/₂, E¹/₂ NW¹/₄; Section 4; Section 5 except NW1/4 SE1/4; Section 6 except S1/2 NE1/4, NW1/4 SE1/4; W1/2, E1/2 SW¹/₄ Section 7; Sections 8–9; N¹/₂, W¹/₂ SW1/4 Section 10; E1/2 E1/2, NE1/4 NW1/4, NW1/4 NE1/4, SW1/4 SE1/4, SE1/4 SW1/4 Section 12; Section 13 except NW1/4 NW1/4; S1/2, SW1/4 NW1/4 Section 14; E1/2 SE1/4, NW1/4 NW¹/₄ Section 15; Sections 16–18; NW¹/₄, N¹/₂ NE¹/₄, SE¹/₄ NE¹/₄, E¹/₂ SE¹/₄, NW¹/₄ SE¹/₄ Section 19; Section 20; Section 21 except NW¹/₄ NW¹/₄; Section 22 except N¹/₂ NW¹/₄, NW¹/₄ NE¹/₄, NE¹/₄ SE¹/₄, SW¹/₄ SE¹/₄; Section 23 except N¹/₂ SW¹/₄, S¹/₂ SE¹/₄; NW¹/₄, N¹/₂ $NE^{1/4}$, $N^{1/2}$ SW¹/4 Section 24; Section 25 except N¹/₂ NE¹/₄, NE¹/₄ NW¹/₄, SE¹/₄ NE¹/₄; Section 26; Section 27 except W1/2 SW1/4, S1/2 NW¹/₄, NE¹/₄ NW¹/₄, NW¹/₄ NE¹/₄; Section 28 except SE1/4 SE1/4; Section 29; Section 30-31; S¹/₂, E¹/₂ NE¹/₄ Section 32; Section 33 except NE1/4 NE1/4; NE1/4, W1/2 SW1/4, SE1/4 SW1/4, NE¹/₄ SE¹/₄, NE¹/₄ NW¹/₄ Section 34; Section 35 except SW1/4 SW1/4, SW1/4 SE1/4.

T.17S., R.11W. Willamette Meridian: Section 1 except SE1/4 SW1/4, S1/2 SE1/4; Section 2 except SE¹/₄ NE¹/₄, NE¹/₄ SE¹/₄; S¹/₂, E1/2 NE1/4, S1/2 NW1/4 Section 3; Sections 4-5; Section 6 except S¹/₂ SE¹/₄; SE¹/₄, S¹/₂ SW1/4, NW1/4 SW1/4, NE1/4 NW1/4, SE1/4 NE1/4, SW1/4 NW1/4 Section 7; Section 8; Section 9 except SE1/4 SE1/4; N1/2, N1/2 SE1/4, SE1/4 SE1/4 Section 10; Section 11 except NE¹/₄ NW¹/₄, NW¹/₄ SE¹/₄; Section 12; NE¹/₄ NE¹/₄ Section 13; Section 16 except E1/2 E1/2; W1/2, S1/2 SE1/4 Section 17; N¹/₂, N¹/₂ SE¹/₄, S¹/₂ SW¹/₄ Section 18; NW¹/₄, E¹/₂ SW¹/₄ Section 19; Section 20; W¹/₂, NW¹/₄ SE¹/₄ Section 21; E¹/₂ SE¹/₄ Section 24; Section 25 except NW¹/₄, NW¹/₄ NE¹/₄, NW¹/₄ SW¹/₄; SE¹/₄ SE¹/₄ Section 26; W1/2 Section 28; Section 29; S1/2 NW1/4, NE1/4 NW1/4 Section 30; Section 31 except NW1/4, NW¹/₄ NE¹/₄, NW¹/₄ SW¹/₄; Section 32; NW¹/₄, W1/2 SW1/4 Section 33; SE1/4, S1/2 NE1/4 Section 34; Section 35 except N1/2 NW1/4, NW1/4 NE1/4; Section 36.

T.17S., R.12W. Willamette Meridian: Section 1; Section 2 except W $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$; NE $^{1}/_{4}$ Section 11; Section 12 except S $^{1}/_{2}$ SW $^{1}/_{4}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$; E $^{1}/_{2}$ Section 13; E $^{1}/_{2}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$ Section 24; NW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 25.

T.18S., R.08W. Willamette Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 6.

 $\begin{array}{c} T.18S.,\,R.09W.\,\,Willamette\,\,Meridian:\,\,W^{1}\!/_{2}\\ NE^{1}\!/_{4},\,\,E^{1}\!/_{2}\,\,NW^{1}\!/_{4},\,\,NW^{1}\!/_{4}\,\,NW^{1}\!/_{4}\,\,Section\,\,1;\\ Section\,\,2\,\,except\,\,S^{1}\!/_{2}\,\,SE^{1}\!/_{4},\,\,NE^{1}\!/_{4}\,\,SE^{1}\!/_{4},\,\,SE^{1}\!/_{4}\\ NE^{1}\!/_{4};\,\,Section\,\,3;\,\,Section\,\,4\,\,except\,\,W^{1}\!/_{2}\,\,SW^{1}\!/_{4};\\ \end{array}$

 $\begin{array}{l} NE^{1/4}\ NE^{1/4}\ Section\ 5;\ N^{1/2}\ NE^{1/4},\ NE^{1/4}\ SE^{1/4},\\ SE^{1/4}\ NE^{1/4}\ Section\ 7;\ Section\ 8\ except\ S^{1/2}\\ S^{1/2},\ N^{1/2}\ NW^{1/4};\ N^{1/2}\ N^{1/2},\ SW^{1/4}\ NE^{1/4}\\ Section\ 9;\ E^{1/2}\ NE^{1/4},\ SW^{1/4}\ NE^{1/4}\ Section\ 10;\\ NE^{1/4}\ NW^{1/4}\ Section\ 11. \end{array}$

T.18S., R.10W. Willamette Meridian: NW¹/4 NW¹/4 Section 3; N¹/2 NE¹/4 Section 4; N¹/2 NW¹/4, SW¹/4 NW¹/4, W¹/2 SW¹/4 Section 6; NE¹/4, NE¹/4 NW¹/4 Section 7; W¹/2 NW¹/4 Section 8.

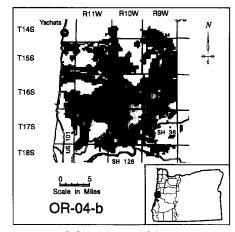
 $\begin{array}{c} T.18S.,\,R.11W.\,\,Willamette\,\,Meridian:\\ Section\,\,1\,\,except\,\,SW^{1\!/4}\,\,SW^{1\!/4};\,\,N^{1\!/2},\,\,W^{1\!/2}\,\,SE^{1\!/4}\\ Section\,\,2;\,\,E^{1\!/2}\,\,NE^{1\!/4},\,\,NE^{1\!/4}\,\,SE^{1\!/4}\,\,Section\,\,3;\\ NW^{1\!/4},\,\,N^{1\!/2}\,\,NE^{1\!/4},\,\,NW^{1\!/4}\,\,SW^{1\!/4}\,\,Section\,\,5;\\ Section\,\,6;\,\,NE^{1\!/4}\,\,NW^{1\!/4}\,\,Section\,\,7;\,\,NW^{1\!/4}\,\,NE^{1\!/4}\\ Section\,\,11,\,\,NE^{1\!/4}\,\,NE^{1\!/4}\,\,Section\,\,12. \end{array}$

Proposed Critical Habitat includes only State lands described within the following areas:

 $T.17.,\,R.08W.$ Willamette Meridian: $S^{1/2}$ SE $^{1}\!\!/_4,\,NE^{1/4}$ SE $^{1/4}$ Section 18; NE $^{1}\!\!/_4,\,NW^{1/4}$ SE $^{1/4}$ Section 19.

 $\begin{array}{c} T.17.,\,R.09W.\,\,Willamette\,\,Meridian:\,\,N^{1\!/2}\\ SW^{1\!/4},\,\,SW^{1\!/4}\,\,NE^{1\!/4},\,\,S^{1\!/2}\,\,NW^{1\!/4}\,\,Section\,\,25;\\ SE^{1\!/4}\,\,NE^{1\!/4},\,\,N^{1\!/2}\,\,SE^{1\!/4}\,\,Section\,\,26;\,\,Section\,\,32\\ except\,\,N^{1\!/2}\,\,S^{1\!/2},\,\,E^{1\!/2}\,\,NE^{1\!/4},\,\,SW^{1\!/4}\,\,NW^{1\!/4};\,\,S^{1\!/2}\\ NW^{1\!/4},\,\,NE^{1\!/4}\,\,NW^{1\!/4},\,\,NE^{1\!/4},\,\,NE^{1\!/4}\\ SW^{1\!/4},\,\,S^{1\!/2}\,\,SW^{1\!/4}\,\,Section\,\,33. \end{array}$

T.18S., R.09W. Willamette Meridian: $W^{1/2}$ SW^{1/4} Section 4; SE^{1/4}, S^{1/2} NE^{1/4}, N^{1/2} NW^{1/4} Section 5; N^{1/2} SE^{1/4}, SE^{1/4} NE^{1/4} Section 9.



Map and description of OR-04-c taken from United States Fish and Wildlife Service 1:100,000 map; Reedsport, Eugene and Cottage Grove, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.18S., R.09W. Willamette Meridian: NW¹/4 NE¹/4, NE¹/4 NW¹/4, E¹/2 SW¹/4 Section 14; SE¹/4, NE¹/4 NW¹/4 Section 23; Section 25; S¹/₂ SW¹/4, NW¹/4 SW¹/4, SW¹/4 SE¹/4 Section 26; Section 27 except N¹/₂, NW¹/4 SW¹/4; S¹/₂ SE¹/4 Section 28; S¹/₂ Section 32; Section 33 except NW¹/4 NW¹/4; Sections 34–36.

T.18S., R.10W. Willamette Meridian: S¹/₂ Section 9; SW¹/₄, W¹/₂ SE¹/₄ Section 10; SW¹/₄ SW¹/₄ Section 14; Section 15 except NE¹/₄ NE¹/₄; N¹/₂ Section 16; Section 17 except N¹/₂ N¹/₂, SE¹/₄ NE¹/₄; Section 18 except N¹/₂ NE¹/₄, NE¹/₄ NW¹/₄, SW¹/₄ NW¹/₄, NW¹/₄ SW¹/₄; Section 19 except SE¹/₄ NW¹/₄; Section

20; W¹/2 NW¹/4, SE¹/4 NE¹/4, NE¹/4 SE¹/4 Section 21; Section 22 except E¹/2 NE¹/4, NW¹/4 NE¹/4, NE¹/4 SW¹/4; Section 23 except NE¹/4, N¹/2 NW¹/4, NW¹/4 SE¹/4; Sections 25–26; Section 27 except SW¹/4 SW¹/4; W¹/2 W¹/2, E¹/2 SE¹/4, SE¹/4 NE¹/4 Section 28; Section 29–32; Section 33 except E¹/2 W¹/2, NW¹/4 SW¹/4; Section 34 except SW¹/4, SE¹/4 NW¹/4, SW¹/4 SE¹/4; Section 35 except NE¹/4 NW¹/4.

T.18S., R.11W. Willamette Meridian: Section 13; Section 14 except NW¹/₄ NW¹/₄; Section 22 except N¹/₂ NW¹/₄, SW¹/₄ SW¹/₄; Sections 23–26; NE¹/₄, NE¹/₄ NW¹/₄, SE¹/₄ Setion 27; S¹/₂ SW¹/₄, W¹/₂ SE¹/₄ Setion 28; S¹/₂ SE¹/₄, NE¹/₄ SE¹/₄, SE¹/₄ NE¹/₄ Section 29; NE¹/₄ NE¹/₄ Section 32; Section 33; Section 34 except N¹/₂ NE¹/₄, NE¹/₄ NW¹/₄; Section 35 except SE¹/₄ NW¹/₄; Section 36.

T.19S., R.09 \dot{W} . Willamette Meridian: Sections 1–2; Section 3 except S½ SW½, NW½; Sections 4–5; Section 6 except N½ NW¼, E½ SE¼; Section 7 except NE¼, W½ SW¼, NW¼ SE¼; Section 8; Section 9; Section 11; N½ Section 12; Section 13; Section 15; Sections 17–25; N½ N½, SW¼ NW¼, NW¼ SW¼ Section 26; Sections 27–33; N½ NE¼ Section 34; Section 35 except N½ NW¼; SE¼, E½ NE¼ Section 36.

T.19S., R.10W. Willamette Meridian: Section 1 except NW¹/₄ NW¹/₄; Section 2 except W1/2 SE1/4, NE1/4 SE1/4, SE1/4 NE1/4, SW¹/₄ NW ¹/₄; Section 3 except NE¹/₄ SE¹/₄, $SW^{1/4}$ $SE^{1/4}$; Section 4 except $S^{1/2}$ $SE^{1/4}$; Sections 5-8; Section 9 except E1/2 NE1/4; S¹/₂, SE¹/₄ NW¹/₄, SW¹/₄ NE¹/₄ Section 10; Section 11 except N¹/₂ N¹/₂, SW¹/₄ NW¹/₄; Section 12 except E¹/₂ SE¹/₄; Section 13 except SE1/4 SE1/4; Sections 14-23; Section 24 except N1/2 NE1/4, NE1/4 NW1/4; Sections 25-28; Section 29 except W½ SW¼; Section 30; S¹/₂ SE¹/₄, SW¹/₄ SW¹/₄ Section 31; Section 32 except W1/2 NW1/4, S1/2 SE1/4, NE1/4 SE1/4, SE¹/₄ SW¹/₄; Section 33 except S¹/₂ N¹/₂, N¹/₂ NE¹/₄; Section 34 except S¹/₂ N¹/₂, NW¹/₄ SE¹/₄; Section 35 except NW¹/₄ NW¹/₄; N¹/₂ N1/2 Section 36.

T.19S., R.11W. Willamette Meridian: Section 1 except W1/2 SW1/4, SW1/4 NW1/4; N1/2 N1/2, W1/2 SW1/4, SW1/4 NW1/4 Section 2; Sections 3–4; Section 9 except S1/2 SW1/4, NW1/4 SE1/4; Setion 10 except S1/2, SW1/4 NW1/4; W1/2 NW1/4 Section 11; Section 12 except W1/2 SW1/4, NE1/4 SW1/4, SW1/4 NW1/4; Section 13; E1/2 SE1/4, NW1/4 SE1/4 Section 14; Section 21 except N1/2 NW1/4, SW1/4 NW1/4; Section 23 except N1/2 NW1/4, SW1/4 NW1/4; Section 23 except N1/4 NW1/4, Section 24; NE1/4, NE1/4, Section 25; N1/2, SW1/4 SW1/4 Section 27; Section 28 except E1/2 SW1/4; NE1/4, W1/4 SE1/4, E1/2 SW1/4, SW1/4 NW1/4 Section 33.

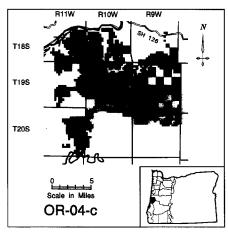
T.20S., R.09W. Willamette Meridian: Section 1 except NE 1 4 NE 1 4; Section 2 except SW 1 4 SW 1 4; Section 3 except NW 1 4 NW 1 4; Sections 4–6; Section 7 except W 1 2 W 1 2, SE 1 4 SW 1 4, S 1 2 SW 1 4; Section 8; N 1 2, NE 1 4 SE 1 4 Section 9; SE 1 4, S 1 2 NW 1 4 Section 10; Section 11 except NW 1 4 NW 1 4, NW 1 5 Section 12 except W 1 2 SW 1 4, N 1 2 NW 1 4, NW 1 4 NE 1 4 Section 13; N 1 2 NW 1 4, NW 1 4 NE 1 4 Section 14; NE 1 4 NE 1 4 Section 15.

T.20S., R.10W. Willamette Meridian: $N^{1/2}$ $S^{1/2}$, $N^{1/2}$ Section 1; $N^{1/2}$ $N^{1/2}$ Section 2; $N^{1/2}$ $N^{1/2}$ Section 3; $NE^{1/4}$ $NE^{1/4}$ Section 4; $N^{1/2}$ $NW^{1/4}$ Section 5; Section 6; $W^{1/2}$, $N^{1/2}$ $NE^{1/4}$, $SW^{1/4}$ $SE^{1/4}$ Section 7; Section 18 except $S^{1/2}$

 $SW^{1/4}, E^{1/2} SE^{1/4}; SW^{1/4}, W^{1/2} NW^{1/4}, NW^{1/4} SE^{1/4} Section 19; W^{1/2} Section 30.$

T.20S., R.11W. Willamette Meridian: Section 10 except N½ N½, SW¼ SW¼; Sections 11–14; E½ Section 15; E½ E½, NW¼ NE¼ Section 22; Section 23 except S½ SW¼; Section 24–25; E½ Section 26; Section 27 except N½, NE¼ SW¼; Section 35 except W½, SW¼ SE¼; N½ N½ N½ SW¼; NE¼ SW¼, SW¼ SW¼ Section 36.

T.21S., R.11W. Willamette Meridian: NE¹/₄ NE¹/₄ Section 2.



Map and description of OR-04-d taken from United States Fish and Wildlife Service 1:100,000 map; Reedsport and Cottage Grove, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.20S., R.09W. Willamette Meridian: $E^{1/2}$ SE $^{1/4}$, SW $^{1/4}$ SW $^{1/4}$, SE $^{1/4}$ NE $^{1/4}$ Section 32; SW $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$ Section 33.

T.20S., R.10W. Willamette Meridian: $S^{1/2}$ Section 11; $W^{1/2}$ Section 13; $NE^{1/4}$ Section 14; $SE^{1/4}$ Section 22; $W^{1/2}$, $SW^{1/4}$ SE^{1/4} Section 23; $SW^{1/4}$ NW^{1/4} Section 25; Section 26 except $SE^{1/4}$ NE^{1/4}, Section 27 except $W^{1/2}$ SeV^{1/2}, $E^{1/2}$ SW^{1/4}, $NE^{1/4}$, $S^{1/2}$ SE^{1/4} Section 34; Section 35 except $N^{1/2}$ S^{1/2}, $SW^{1/4}$ SW^{1/4}.

T.21S., R.09W. Willamette Meridian: $S^{1/2}$ SW¹/₄, NE¹/₄ SW¹/₄ Section 2; Section 3 except NE¹/₄ NE¹/₄; W¹/₂ NE¹/₄, E¹/₂ NW¹/₄ Section 4; E¹/₂ E¹/₂, NE¹/₄ SW¹/₄ SW¹/₄ SW¹/₄ Section 5; SE¹/₄, SW¹/₄ NE¹/₄ Section 6; Section 7–8; Section 9 except N¹/₂ SE¹/₄, S¹/₂ NE¹/₄; SW¹/₄, E¹/₂ NW¹/₄ Section 10; Section 11; Section 14 except E¹/₂ E¹/₂; Section 15; Sections 17–19; NW¹/₄ Section 20; Section 21; W¹/₂ NE¹/₄ Section 22; Section 23; Section 29; Sections 31–35.

T.21S., R.10W. Willamette Meridian: Section 2; Section 3; NE¹/₄ NE¹/₄ Section 4; SW¹/₄ SW¹/₄ Section 5; W¹/₂ SW¹/₄ Section 6; Section 7; S¹/₂, NW¹/₄ Section 8; NE¹/₄ Section 10; Sections 11–14; Section 15 except W¹/₂ NW¹/₄; Sections 17–21; Section 22 except N¹/₂; Sections 23–30; Section 31 except NW¹/₄ SW¹/₄ SE¹/₄ SW¹/₄; Sections 32–

 $\begin{array}{c} T.21S.,\ R.11W.\ Willamette\ Meridian:\ SE^{1/4}\\ SE^{1/4}\ Section\ 1;\ SW^{1/4}\ SW^{1/4}\ Section\ 14;\ S^{1/2}\\ N^{1/2},\ S^{1/2}\ S^{1/2},\ N^{1/2}\ NW^{1/4}\ Section\ 23;\ Sections\ 24-25;\ Section\ 26\ except\ NW^{1/4}\ NW^{1/4}; \end{array}$

Section 27 except $N^{1}/_2$ $N^{1}/_2$; Section 28 except $N^{1}/_2$ $N^{1}/_2$, $N^{1}/_2$ $SW^{1}/_4$; $S^{1}/_2$ $NE^{1}/_4$ Section 29; $NE^{1}/_4$ $NE^{1}/_4$ Section 32; Section 33 except $S^{1}/_2$ $SW^{1}/_4$; Section 34 except $NW^{1}/_4$ $SW^{1}/_4$; Section 35 except $S^{1}/_2$ $SW^{1}/_4$, $NW^{1}/_4$ $SW^{1}/_4$; Section 36 except $W^{1}/_2$ $SW^{1}/_4$.

T.22S., R.09W. Willamette Meridian: Section 4 except SE¹/₄, SW¹/₄ NE¹/₄, NE¹/₄ SW¹/₄; Section 5 except SW¹/₄; Section 6 except SE¹/₄, SE¹/₄ NE ¹/₄; Section 7; Section 9; NW¹/₄ SW¹/₄ Section 17.

T.22S., R.10W. Willamette Meridian: Sections 1–5; NE 1 /4, N 1 /2 SE 1 /4, SE 1 /4 SE 1 /4 Section 6; Section 8 except SW 1 /4, SW 1 /4 NW 1 /4, SW 1 /4 SE 1 /4; Sections 9–12; N 1 /2 Section 13; NE 1 /4, N 1 /2 NW 1 /4, SW 1 /4 NW 1 /4, NW 1 /4 Se 1 /4 Section 14; NW 1 /4, W 1 /2 NE 1 /4, NW 1 /4 Section 15; N 1 /2 NE 1 /4, SE 1 /4 NE 1 /4 Section 17.

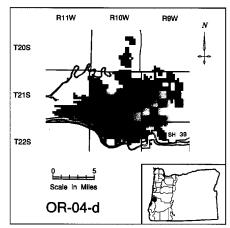
T.22S., R.11W. Willamette Meridian: $NE^{1/4}$ $NE^{1/4}$ Section 1.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.22S., R.09W. Willamette Meridian: $N^{1/2}$ NE $^{1/4}$ Section 16.

T.22S., R.11W. Willamette Meridian: $SE^{1/4}$ $NE^{1/4}$ Section 1.



Map and description of OR-04-e taken from United States Fish and Wildlife Service 1:100,000 map; Cottage Grove and Roseburg, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.22S., R.08W. Willamette Meridian: NE¹/4, N¹/2 NW¹/4, SE¹/4 NW¹/4, NE¹/4 SW¹/4 Section 27.

T.22S., R.09W. Willamette Meridian: $SE^{1/4}$ $SW^{1/4}$ Section 34.

T.23S., R.08W. Willamette Meridian: Section 3 except NW $^{1}/_{4}$ NW $^{1}/_{4}$; Section 5; S $^{1}/_{2}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$, SW $^{1}/_{4}$ NW $^{1}/_{4}$ Section 6; Section 7; Section 9; NW $^{1}/_{4}$, S $^{1}/_{2}$ SI $^{1}/_{2}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$ Section 11; Section 14 except N $^{1}/_{2}$ NE $^{1}/_{4}$; W $^{1}/_{4}$, NE $^{1}/_{4}$, NE $^{1}/_{4}$, SE $^{1}/_{4}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$ SEV $^{1}/_{4}$ SW $^{1}/_{4}$ Section 14; Section 15; Section 17–19; Section 20 except N $^{1}/_{2}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$, NE $^{1}/_{4}$, NE $^{1}/_{4}$, SE $^{1}/_{4}$; Section 21;

Section 23 except S¹/₂ NE¹/₄, SW¹/₄ NW¹/₄; NW¹/₄ NW¹/₄ Section 25; Section 27; Section 28 except N¹/₂ NE¹/₄, SE¹/₄ NE¹/₄, NE¹/₄ NW¹/₄; Sections 29–33; Section 35 except E¹/₂ NE¹/₄.

T.23S., R.09W. Willamette Meridian: Section 3 except NE 1 /4, W 1 /2 W 1 /2; SW 1 /4 SW 1 /4 Section 4; SW 1 /4 Section 6; Sections 7–8; W 1 /2 Section 9; SW 1 /4 SW 1 /4 Section 12; N 1 /2, W 1 /2 SW 1 /4, SE 1 /4 SW 1 /4 SE 1 /4 SE 1 /4 SE 1 /4 Section 13; Sections 14–17; Section 20 except S 1 /2 N 1 /2; Section 21–22; N 1 /2 Section 23; Sections 24–25; Section 26 except NW 1 /4; Section 27; Section 28 except E 1 /2 SE 1 /4; Section 29.

T.23S., R.10W. Willamette Meridian: Section 1.

T.24S., R.07W. Willamette Meridian: $SE^{1/4}$ NW $^{1/4}$ Section 6; Section 7; $E^{1/2}$ Section 18; Section 19 except $E^{1/2}$ $E^{1/2}$, $SW^{1/4}$ $SE^{1/4}$.

T.24S., R.08W. Willamette Meridian: Section 1; Section 3; E½, E½ SW¼ Section 9; Sections 10–11; Section 13; Section 15; SE¼, SE¼ NE¼ Section 17; Section 20 except NW¼; Section 21; SE¼ Section 22; Section 23; Section 25; Sections 27–29; Section 33; Section 35.

T.25S., R.07W. Willamette Meridian: S1/2 S1/2, NW1/4 SE1/4 Section 6; S1/2 S1/2, NE1/4 NE1/4 Section 7; NW1/4 NE1/4, NW1/4 NW1/4 Section 16; Section 17 except NE1/4 NE1/4; Section 18 except W1/2 W1/2; Section 19 except NE1/4 NE1/4; N1/2 N1/2, SE1/4 NW1/4 Section 20; S1/2 S1/2, NW1/4 /SW1/4 NE1/4 SW1/4 Section 21; SW1/4, S1/2 SW1/4, NE1/4, NE1/4, S1/2 SW1/4 Section 27; SW1/4, SW1/4, SU1/4, SU1/4 SU1/4 Section 28; SE1/4, S1/2 NU1/4, SU1/4 SU1

T.25S., R.08W. Willamette Meridian: Section 1; Sections 3–4; E 1 /2 E 1 /2 Section 5; Section 8 except W 1 /2, NW 1 /4 NE 1 /4; Section 9; N 1 /2 NE 1 /4, NE 1 /4 NW 1 /4, NW 1 /4 Section 10; Section 11; NE 1 /4 NE 1 /4 Section 12; Section 13; S 1 /2 SE 1 /4, NE 1 /4 NW 1 /4 Section 14; N 1 /2 N 1 /2, SW 1 /4, SW 1 /4 NW 1 /4, SE 1 /4 Section 20 except NW 1 /4 NW 1 /4; W 1 /2 NW 1 /4, NE 1 /4 Section 22; Section 23; Section 24 except SE 1 /4, W 1 /2 NW 1 /4; Section 25; Section 30 except SW 1 /4, NE 1 /4 Section 26: Section 32 except SE 1 /4; NE 1 /4 Section 36.

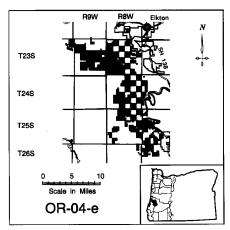
 $\label{eq:total_constraints} T.26S., R.07W. Willamette Meridian: Section 5; NE¹/4, SE¹/4, SW¹/4 Section 6; Section 7 except NW¹/4 SW¹/4, SW¹/4 NW¹/4; N¹/2 NE¹/4, SE¹/4 NE¹/4, E¹/2 SE¹/4, N¹/2 SW¹/4, NW¹/4 NW¹/4 Section 8; Section 9 except N¹/2 NW¹/4.$

T.26S., R.08W. Willamette Meridian: $W^{1/2}$, $E^{1/2}$ SE^{1/4}, SE^{1/4} SW^{1/4} Section 1; NW^{1/4} SE^{1/4}, SE^{1/4} NW^{1/4} Section 12.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.25S., R.07W. Willamette Meridian: $SW^{1/4}$ SE¹/4 Section 6; NE¹/4 NW¹/4 Section 34.



Map and description of OR–04–f taken from United States Fish and Wildlife Service 1:100,000 map; Cottage Grove and Roseburg, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.22S., R.06W. Willamette Meridian: $S^{1/2}$, $S^{1/2}$ NE^{1/4} Section 17; Section 19; Section 21; Section 29; Section 30 except $W^{1/2}$ NW^{1/4}, $SE^{1/4}$ NW^{1/4}, NW^{1/4} SW^{1/4}; Section 31; NW^{1/4} NE^{1/4}, NE^{1/4} NW^{1/4} Section 32; Section 33.

T.23S., R.06W. Willamette Meridian: W1/2 SW1/4 Section 4; Section 5 except W1/2 SW1/4; N¹/₂ NE¹/₄, NE¹/₄ NW¹/₄ Section 8; NW¹/₄ $NW^{1/4}$ Section 9; Section 11 except $N^{1/2}$ $N^{1/2}$; NW¹/₄ NW¹/₄ Section 12; SE¹/₄ Section 14; Section 15 except W1/2 W1/2; Section 19 except NW1/4 NW1/4; N1/2 NW1/4, SW1/4 NW¹/₄, NW¹/₄ SW¹/₄, SE¹/₄ SE¹/₄ Section 20; Section 21 except N1/2 N1/2; W1/2 SW1/4, S1/2 SE1/4, NE1/4 NW1/4, SW1/4 NW1/4, N1/2 NE1/4 Section 22; Section 23 except N1/2 NW1/4, SE1/4 SW1/4; N1/2 NE1/4, S1/2 NW1/4, SW1/4 NE1/4, NW1/4 NW1/4, SW1/4 SW1/4 Section 26; Section 27 except N1/2 NE1/4, NE1/4 NW1/4; Section 28 except E¹/₂ NW¹/₄, NW¹/₄ SE¹/₄, NE1/4 SW1/4; Section 29 except SW1/4 SW1/4; Section 31; NW¹/₄ NW¹/₄ Section 32; Section 33 except W1/2 NW1/4, NW1/4 SW1/4; W1/2 NW¹/₄, NW¹/₄ SW¹/₄ Section 34; Section 35 except NW1/4 NW1/4.

T.23S., R.07W. Willamette Meridian: $N^{1/2}$ NW^{1/4}, S^{1/2} NE^{1/4}, N^{1/2} SW^{1/4}, NW^{1/4} SE^{1/4} Section 3; E^{1/2} NW^{1/4}, S^{1/2} NE^{1/4}, NE^{1/4} Setion 15; Section 23 except N^{1/2} N^{1/2}, SE^{1/4} NW^{1/4}, SW^{1/4} NE^{1/4}, SW^{1/4} SW^{1/4}; Section 25; S^{1/2} SE^{1/4}, SW^{1/4} SE^{1/4} Section 33.

T.24S., R.06W. Willamette Meridian: $N^{1/2}$ NE $^{1/4}$ Section 2; Section 3; $N^{1/2}$ SW $^{1/4}$, NW $^{1/4}$ SE $^{1/4}$, SW $^{1/4}$ NE $^{1/4}$ Section 4; Section 5; NW $^{1/4}$ NE $^{1/4}$ Section 10.

T.24S., R.07W. Willamette Meridian: $N^{1/2}$ $NW^{1/4}$ Section 2; $S^{1/2}$ $SW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$, $SW^{1/4}$, $SE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$ Section 3; Section 11 except $NE^{1/4}$, $E^{1/2}$ $SE^{1/4}$, $NE^{1/4}$ $NW^{1/4}$; $N^{1/2}$ $N^{1/2}$, $W^{1/2}$ $SE^{1/4}$, $SW^{1/4}$ $NW^{1/4}$ Section 15; $E^{1/2}$ $SE^{1/4}$ Section 21; Section 23; $NW^{1/4}$ $NW^{1/4}$ Section 24; Section 25; Section 27 except $SW^{1/4}$, $SW^{1/4}$ $NW^{1/4}$; $SE^{1/4}$ $SW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$ $NW^{1/4}$ Section 28; Section 35.

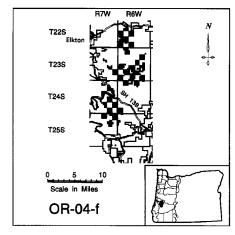
 $\begin{array}{c} T.25S.,\,R.06W.\,\,Willamette\,\,Meridian:\,N^{1}\!/_{2}\\ NE^{1}\!/_{4}\,\,Section\,\,6;\,S^{1}\!/_{2}\,\,NW^{1}\!/_{4},\,N^{1}\!/_{2}\,\,SW^{1}\!/_{4},\,SW^{1}\!/_{4}\\ SW^{1}\!/_{4}\,\,Section\,\,7;\,NW^{1}\!/_{4}\,\,NW^{1}\!/_{4}\,\,Section\,\,18. \end{array}$

T.25S., R.07W. Willamette Meridian: Section 1; NE¹/₄ Section 2; Section 3; S¹/₂, S½ NE¼ Section 11; N½ N½, SW¼ SW¼ Section 12; NE¼, E½ NW¼ Section 14.
T. 26S., R.06W. Willamette Meridian:
NW¼, NW¼ SW¼, NW¼ NE¼ Section 7.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.24S., R.07W. Willamette Meridian: $SE^{1/4}$ NE $^{1/4}$ Section 15.



Map and description of OR-04-g taken from United States Fish and Wildlife Service 1:100,000 map; Cottage Grove, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $\begin{array}{l} T.21S.,\,R.06W.\,\,Willamette\,\,Meridian:\\ Section\,\,31. \end{array}$

 $\begin{array}{c} T.21S., R.07W. \ Willamette \ Meridian: \\ Section 7 \ except \ E1/2 \ E1/2; \ Section 16 \ except \\ N1/2 \ NW1/4; \ Section 17; \ Section 18 \ except \\ N1/2 \ NE1/4, \ NE1/4 \ NW1/4; \ Section 19; \ NW1/4, \\ N1/2 \ NE1/4, \ SW1/4 \ NE1/4, \ NE1/4 \ SW1/4, \ NW1/4 \\ SE1/4 \ Section 20; \ Section 21; \ Section 25; \\ NE1/4, \ NW1/4 \ NW1/4 \ Section 28; \ Section 29; \\ N1/2, \ SW1/4, \ NE1/4 \ SE1/4 \ Section 30; \ Section 31 \\ W1/2 \ NW1/4, \ NW1/4 \ SW1/4; \ Section 33; \ Section 35. \\ \end{array}$

T.21S., R.08W. Willamette Meridian: Section 1; $S^{1/2}$ SE $^{1/4}$, SE $^{1/4}$ SW $^{1/4}$ Section 2; $S^{1/2}$ SW $^{1/4}$ Section 3; Section 10 except NE $^{1/4}$; Section 11 except SW $^{1/4}$ SW $^{1/4}$; Section 12; Section 13 except S $^{1/2}$ SW $^{1/4}$; Section 14; Section 23 except E $^{1/2}$ E $^{1/2}$ Section 24; Section 25; N $^{1/2}$ N $^{1/2}$, E $^{1/2}$ SE $^{1/4}$, SE $^{1/4}$ NE $^{1/4}$ Section 26; S $^{1/2}$ Section 35; SE $^{1/4}$ SE $^{1/4}$, SW $^{1/4}$ SW $^{1/4}$ Section 36.

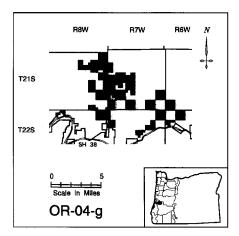
T.22S., R.06W. Willamette Meridian: Section 5; NW 1 /4, N 1 /2 NE 1 /4, NE 1 /4 SW 1 /4 Section 7.

T.22S., R.07W. Willamette Meridian: Section 1; W½ Section 6; Section 7 except S½ S½, W½ NW¼, NW¼ SE¼; Section 11 except NW¼; NW¼, N½ NE¼, SW¼ NE¼, NE¼ SW¼ Section 15.

T.22S., R.08W. Willamette Meridian: Section 1; N¹/₂ NE¹/₄, NE¹/₄ NE¹/₄ Section 5. Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.21S., R.08W. Willamette Meridian: S1/2 NW1/4, NW1/4 SW1/4, NW1/4 NE1/4, SE1/4 NE1/4 Section 5

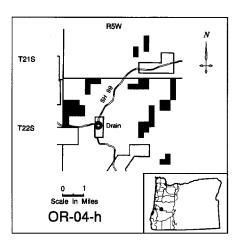


Map and description of OR-04-h taken from United States Fish and Wildlife Service 1:100,000 map; Cottage Grove, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.21S., R.05W. Willamette Meridian: E¹/₂ SW¹/₄, E¹/₂ NE¹/₄, NE¹/₄ SE¹/₄ Section 27.

T.22S., R.05W. Willamette Meridian: W1/2 W¹/₂ Section 1; NE¹/₄, S¹/₂ NW¹/₄ Section 3; W1/2 NW1/4, NE1/4 NW1/4, NW1/4 NE1/4, NW1/4 SW¹/₄ Section 5; Section 7 except S¹/₂ SE¹/₄, SE¹/₄ SW¹/₄, NE¹/₄ NE¹/₄; NE¹/₄, W¹/₂ SW¹/₄, SW1/4 NW1/4 Section 11; NW1/4 NW1/4 Section 14; NE¹/₄, NW¹/₄ SE¹/₄ Section 15; NW¹/₄ NW1/4 Section 18; S1/2 SE1/4, NE1/4 SE1/4 Section 23.



Map and description of OR-04-i taken from United States Fish and Wildlife Service 1:100,000 map; Eugene and Cottage Grove, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.17S., R.06W. Willamette Meridian: $W^{1/2}$ NW¹/₄, NE¹/₄ NW¹/₄, NW¹/₄ NE¹/₄ Section 31; SE¹/₄ SE¹/₄ Section 35.

T.17S., R.07W. Willamette Meridian: E¹/₂ SE¹/₄, SE¹/₄ NE¹/₄ Section 10; Section 11; S¹/₂, SW¹/₄ NW¹/₄ Section 13; Section 15 except E1/2 NE1/4, NW1/4 NW1/4; NW1/4, S1/2 S1/2, NW¹/₄ NE¹/₄ Section 19; SE¹/₄ Section 25; Section 29 except E1/2 W1/2, W1/2 NE1/4.

T.17S., R.08W. Willamette Meridian: Section 13; Section 17 except SW1/4, NE1/4 NE1/4, NW1/4 NW1/4; Section 21; S1/2 SW1/4, NW1/4 NW1/4 Section 22; Section 23; Section 25; Section 27; NE1/4 SW1/4 Section 28; E1/2 E¹/₂ Section 33; Section 35.

T.18S., R.06W. Willamette Meridian: Section 5 except SW1/4 SW1/4; SE1/4 Section 11; Section 19 except NW1/4 NW1/4; Section 21 except E¹/₂ SE¹/₄; SW¹/₄ Section 23; Section 27 except S¹/₂ NE¹/₄; Section 31; NE¹/₄, W¹/₂ SE¹/₄, NE¹/₄ SW¹/₄, NW¹/₄ NW¹/₄ Section 35.

T.18S., R.07W. Willamette Meridian: Section 1 except NW1/4 NW1/4, SW1/4 SW1/4; N¹/₂, NE¹/₄ SE¹/₄ Section 7; Section 17 except SE1/4 SW1/4, NW1/4 SW1/4; Section 19 except S¹/₂ SW¹/₄, SW¹/₄ SE¹/₄; Section 21 except S¹/₂ SE¹/₄, SE¹/₄ SW¹/₄; Section 25; Section 27; Section 29; Section 31; SW1/4 SW1/4 Section 32; Section 33 except NE1/4 SW1/4, NW1/4 SE¹/₄; S¹/₂ SW¹/₄ Section 34; Section 35 except E1/2 SE1/4.

T.18S., R.08W. Willamette Meridian: NW1/4, NW1/4 NE1/4 Section 1; SE1/4 NE1/4 Section 2; Section 3; Section 4 except E¹/₂, NW¹/₄ NW¹/₄; Section 9; Section 11 except E¹/₂ SE¹/₄, SW¹/₄ SE¹/₄; Section 13 except N¹/₂ NE¹/₄, E¹/₂ NW¹/₄, SW¹/₄ SW¹/₄; N¹/₂, S¹/₂ SW1/4, NE1/4 SE1/4, SE1/4 NE1/4, SW1/4 NW1/4 Section 16; Section 19; Section 21 except E¹/₂ NW¹/₄, NW¹/₄ SE¹/₄; S¹/₂, SE¹/₄ NE¹/₄, SW¹/₄ NW¹/₄ Section 23; Section 25; Section 27; SE $^{1}/_{4}$, N $^{1}/_{2}$ NE $^{1}/_{4}$ Section 28; Section 29 except E1/2 NE1/4; Section 31; NW1/4 NE1/4 Section 32; Section 33 except NE1/4; Section 35 except S1/2 SW1/4, SW1/4 SE1/4.

T.19S., R.05W. Willamette Meridian: Section 7 except NE1/4 NE1/4 SW1/4 SW1/4; NW¹/₄ NW¹/₄, Ŝ¹/₂ SW¹/₄ Section 17; Section 19; Section 29; Section 31; NW1/4 NW1/4 Section 32; Section 35 except NE¹/₄ NE¹/₄.

T.19S., R.06W. Willamette Meridian: Section 1 except N1/2 NW1/4, SW1/4 NW1/4; Section 3 except SW1/4 SW1/4; Section 5; Section 7 except N1/2 NE1/4; SE1/4 NW1/4, NE1/4 SW1/4 Section 8; E1/2, S1/2 SW1/4, SW1/4 NW1/4 Section 15; Section 17 except NE1/4 NE¹/₄, SW¹/₄ NW¹/₄; Section 19 except SE¹/₄ SE¹/₄; E¹/₂ NW¹/₄, SW¹/₄ NE¹/₄ Section 20; Section 21; Section 23; Section 25; Section 27; Section 29; Section 31; Section 33; SE1/4 NE¹/₄ Section 34; Section 35.

T.19S., R.07W. Willamette Meridian: Section 1 except S1/2 SE1/4, SE1/4 SW1/4; N1/2, E¹/₂ SE¹/₄, E¹/₂ SW¹/₄ Section 3; S¹/₂, E¹/₂ NE1/4, NW1/4 NW1/4 Section 5; Section 7; Section 9 except N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄; S1/2, S1/2 N1/2, NW1/4 NW1/4, NE1/4 NE1/4 Section 11; Section 13; Section 15 except N¹/₂ $NE^{1/4}$, $NW^{1/4}$ $NE^{1/4}$; Section 17; Section 19 except N1/2 SW1/4; Section 21; Section 23;

SW1/4 SE1/4 Section 24; NE1/4 NE1/4, S1/2 SE1/4 Section 25; Section 27; Section 29; S1/2 Section 30; Section 31; W1/2 NW1/4 Section 32: Section 33: Section 35.

T.19S., R.08W. Willamette Meridian: Section 1; Section 5; N1/2 NW1/4 Section 6; Section 7; SW $^{1}/_{4}$, W $^{1}/_{2}$ SE $^{1}/_{4}$ Section 8; W $^{1}/_{2}$ Section 9; $SE^{1/4}$ $SE^{1/4}$ Section 11; $NE^{1/4}$, $E^{1/2}$ NW¹/₄, NW¹/₄ NW¹/₄, NE¹/₄ SE¹/₄ Section 13; Section 17; N¹/₂ S¹/₂, SE¹/₄ NE¹/₄, NW¹/₄ NW¹/₄ Section 18; Section 19; NE¹/₄ NE¹/₄, S1/2 SW1/4, SW1/4 SE1/4 Section 20; Section 21; SW1/4 SE1/4 Section 22; Section 23; SE1/4 SE1/4 Section 24; Section 25; NW1/4 Section 26; Section 27; SE¹/₄ SE¹/₄ Section 28; Section 29; $W^{1/2}$ $SE^{1/4}$, $E^{1/2}$ $SW^{1/4}$, $SW^{1/4}$ $SW^{1/4}$ Section 30; Section 31; Section 33; Section

T.20S., R.05W. Willamette Meridian: W1/2 W1/2 Section 3; Section 5; Section 7 except N¹/₂ SW¹/₄, SW¹/₄ NW¹/₄; W¹/₂, W¹/₂ NE¹/₄ Section 15; Section 17 except NW1/4; Section 19; Section 21 except N¹/₂, NE¹/₄ SE¹/₄; NE¹/₄, SW¹/₄, NE¹/₄ SE¹/₄ Section 29; Section 31; Section 33; NW1/4 SW1/4 Section 34.

T.20S., R.06W. Willamette Meridian: Section 1 except S1/2 SW1/4; Section 3 except E¹/₂ SW¹/₄, SW¹/₄ SW¹/₄; SE¹/₄ NE¹/₄ Section 4; Section 5; S1/2 SW1/4, SW1/4 SE1/4 Section 6; Section 7 except S1/2 SW1/4; Section 9; Section 11 except W1/2 NW1/4, NW1/4 SW1/4, SE¹/₄ NE¹/₄; Section 13; Section 15; Section 17; E1/2 SE1/4 Section 18; Section 19 except E¹/₂; Section 21; Section 23; SW¹/₄ SW¹/₄ Section 24; Section 25; N1/2 SE1/4, SW1/4 SE1/4 Section 26; Section 27; E1/2 NE1/4, NE1/4 SE1/4 Section 28; Section 29; E¹/₂ E¹/₂ Section 30; Section 31; S¹/₂ NE¹/₄, W¹/₂ SW¹/₄ Section 32; $SE^{1/4}$, $N^{1/2}$ $NW^{1/4}$, $SW^{1/4}$ $NW^{1/4}$, $NW^{1/4}$ $NE^{1/4}$, SE1/4 NE1/4, SE1/4 SW1/4 Section 33; Section 35 except $S^{1/2}$ $SW^{1/4}$.

T.20S., R.07W. Willamette Meridian: Section 1 except N1/2 NE1/4; SE1/4 SE1/4 Section 2; Section 3 except E1/2 NW1/4; Section 5; Section 6 except N¹/₂ N¹/₂; Section 11; Section 12 except $E^{1/2}$ $E^{1/2}$, $NW^{1/4}$ $SE^{1/4}$, SW1/4 NE1/4; Section 13; Section 14 except E¹/₂ SE¹/₄: Section 15: NE¹/₄ SE¹/₄ Section 20: Section 21; Section 22 except SE¹/₄, SE¹/₄ NE1/4; Section 23 except W1/2 SW1/4, SE1/4 SE¹/₄, SW¹/₄ NW¹/₄; Section 33 except E¹/₂ NE1/4; SW1/4 Section 34.

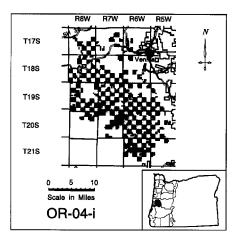
T.20S. R.08W. Willamette Meridian: Section 1; SW1/4 Section 2; Section 3; N1/2 NE1/4 Section 6; Section 9 except SW1/4 SW1/4; Section 11; W1/2 W1/2 Section 12; NW1/4 NW1/4 Section 13.

T.21S., R.05W. Willamette Meridian: Section 3 except $NE^{1/4}$ $NE^{1/4}$, $SE^{1/4}$ $SE^{1/4}$; $N^{1/2}$ Section 5; Section 7; Section 19 except S¹/₂

T.21S., R.06W. Willamette Meridian: Section 1 except S1/2 NW1/4, SW1/4 NE1/4. SE¹/₄ SE¹/₄; Section 3; Section 5; W¹/₂ SW¹/₄ Section 6; Section 7 except NW1/4 NE1/4; Section 8 except SE¹/₄; Section 9; Section 11; NE¹/₄ Section 12; Section 13; Section 14 except NE1/4; Sections 15-17; N1/2 NW1/4, NW¹/₄ NE¹/₄, S¹/₂ SE¹/₄, NE¹/₄ SW¹/₄, NW¹/₄ SW1/4 Section 18: Section 19: NW1/4 NE1/4 Section 20; Section 21; S1/2 NE1/4, N1/2 SE1/4 Section 22; Section 23; Section 27.

Proposed Critical Habitat includes only State lands described within the following areas:

T.17S., R.08W. Willamette Meridian: $SE^{1/4}$ $NW^{1/4}$ Section 28.



Map and description of OR-04-j taken from United States Fish and Wildlife Service 1:100,000 map; Eugene, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $T.13S.,\,R.06W.$ Willamette Meridian: $S^{1\!/_{\!\!2}}$ Section 31.

T.14S., R.06W. Willamette Meridian: $SW^{1/4}$ $NW^{1/4}$ Section 6; Section 7; Section 31.

T.14S., R.07W. Willamette Meridian: Section 1; Section 9; NE 1 /4 SE 1 /4 Section 10; Section 11 except SE 1 /4; Section 12 except E 1 /2 E 1 /2, S 1 /2 SW 1 /4, NE 1 /4 SW 1 /4, SE 1 /4 NW 1 /4; Section 13 except N 1 /2 SW 1 /4, SE 1 /4 SW 1 /4, SE 1 /4 SW 1 /4, SE 1 /4 SW 1 /4 Section 14; Section 17; Section 19 except NE 1 /4 NE 1 /4; SW 1 /4 SE 1 /4, S 1 /2 SW 1 /4, NW 1 /4 Section 20; Section 21 except N 1 /2 NW 1 /4, SU 1 /4 NW 1 /4; Section 23 except SW 1 /4 SE 1 /4, SE 1 /4, SE 1 /4 NE 1 /4 Section 24; Section 25; Section 26 except N 1 /2 N 1 /2; Section 27; S 1 /2 Section 28; Section 29–34.

T.14S., R.08W. Willamette Meridian: Section 19 except N¹/2 N¹/2, SW¹/4 SW¹/4; SW¹/4 Section 20; S¹/2 S¹/2, N¹/2 SW¹/4 Section 21; S¹/2 SW¹/4, W¹/2 SE¹/4 Section 22; S¹/2 SW¹/4 Section 23; E¹/2 E¹/2, W¹/2 NE¹/4 Section 25; NW¹/4 Section 26; Section 27; E¹/2 SW¹/4 Section 28; Section 29 except N¹/2 NE¹/4, Section 30 except N¹/2 NE¹/4, SW¹/4 NE¹/4, W¹/2 SE¹/4, E¹/2 SW¹/4; Section 31 except N¹/2 SW¹/4, NW¹/4 SE¹/4; Section 32; N¹/2 S¹/2, N¹/2 Section 33; NW¹/4, N¹/2 NE¹/4, NW¹/4 SW¹/4 Section 34; NW¹/4 NW¹/4 Section 35.

T.15S., R.06W. Willamette Meridian: Section 29; Section 31; Section 33 except NE¹/₄, E¹/₂ SE¹/₄, SW¹/₄ NW¹/₄; SE¹/₄ SE¹/₄ Section 34; SW¹/₄ SW¹/₄ Section 35.

T.15S., R.07W. Willamette Meridian: Section 3 except S 1 /2 SW 1 /4; Section 4 except E 1 /2 NE 1 /4, NW 1 /4 SE 1 /4, NE 1 /4 SE 1 /4; Sections 5–6; Section 7 except S 1 /2 S 1 /2; NW 1 /4 NE 1 /4 Section 8; Section 18–21; Section 25 except SE 1 /4 NE 1 /4; Section 27; Section 29; SW 1 /4 Sw 1 /4 Section 30; Section 31; Section 33 except NE 1 /4; SE 1 /4 NW 1 /4, SE 1 /4 NE 1 /4, NE 1 /4 SE 1 /4 SW 1 /4 Section 35.

T.15S., R.08W. Willamette Meridian: Section 1; $S^{1/2}$ Section 2; Section 3 except $W^{1/2}$ SW $^{1/4}$, $NE^{1/4}$ SW $^{1/4}$, $NW^{1/4}$ SE $^{1/4}$, $N^{1/2}$

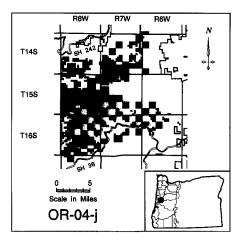
NE¹/4, SW¹/4 NW¹/4; NE¹/4, SW¹/4 SW¹/4 Section 4; Section 5 except S¹/2 NE¹/4, SE¹/4 NW¹/4, NE¹/4 SW¹/4, W¹/2 SW¹/4, N¹/2 SE¹/4; Section 6 except SE¹/4, E¹/2 SW¹/4, S¹/2 NW¹/4, S¹/2 SW¹/4; Section 7 except N¹/2 N¹/2, SE¹/4 NE¹/4; Section 9 except S¹/2 SE¹/4; Section 11; Sections 13−14; Section 15 except NW¹/4 NW¹/4; Sections 16−27; N¹/2 Section 28; Sections 29−31; N¹/2, W¹/2 SW¹/4 Section 32; Section 33; S¹/2 SW¹/4, SW¹/4 Section 34; Section 35; W¹/2 Section 36.

 $\begin{array}{c} T.16S.,\,R.06W.\,\,Willamette\,\,Meridian:\,\,SE^{1/4},\,\\ E^{1/2}\,\,SW^{1/4},\,\,NW^{1/4}\,\,SW^{1/4},\,\,SW^{1/4}\,\,NW^{1/4}\,\,Section\,\\ 3;\,\,Section\,\,5\,\,except\,\,S^{1/2}\,\,SW^{1/4},\,\,NW^{1/4}\,\,SW^{1/4},\,\\ SW^{1/4}\,\,NW^{1/4};\,\,Section\,\,7\,\,except\,\,S^{1/2}\,\,SE^{1/4},\,\\ NE^{1/4}\,\,SE^{1/4};\,\,SW^{1/4}\,\,SE^{1/4}\,\,Section\,\,9;\,\,Section\,\,9;\,\\ SW^{1/4}\,\,NE^{1/4},\,\,NE^{1/4}\,\,NW^{1/4}\,\,Section\,\,12;\,\,NW^{1/4},\,\\ N^{1/2}\,\,NE^{1/4},\,\,W^{1/2}\,\,SE^{1/4},\,\,SW^{1/4}\,\,SW^{1/4}\,\,Section\,\,17;\,\,S^{1/2}\,\,S^{1/2}\,\,Section\,\,33. \end{array}$

T.16S., R.07W. Willamette Meridian: Section 1; Section 3 except $S^{1/2}$ $SW^{1/4}$; Section 5 except $S^{1/2}$ $SW^{1/4}$, $SW^{1/4}$ $SE^{1/2}$; $SW^{1/4}$ Section 6; Section 7 except $NE^{1/4}$, $NW^{1/4}$; $NE^{1/4}$, $N^{1/2}$ $SE^{1/4}$, $SE^{1/4}$ $NW^{1/4}$ Section 13; $E^{1/2}$, $SW^{1/4}$ Section 15; $W^{1/2}$ $NW^{1/4}$ Section 18; $S^{1/2}$, $S^{1/2}$ $N^{1/2}$ Section 19: Section 21.

T.16S., R.08W. Willamette Meridian: Section 1 except SW1/4 SW1/4; N1/2 NW1/4, SE¹/₄ SE¹/₄ Section 2; Sections 3–4; Section 5 except W1/2 SW1/4, NE1/4 SW1/4, NW1/4 SE1/4, NW1/4 NW1/4; S1/2 SW1/4, NE1/4 SW1/4, W¹/₂ NW¹/₄, SE¹/₄ NW¹/₄, NW¹/₄ NE¹/₄ Section 6; $N^{1/2}$ $NE^{1/4}$, $S^{1/2}$ $SE^{1/4}$, $W^{1/2}$ $SW^{1/4}$, $SW^{1/4}$ NW1/4 Section 7; Sections 8-9; W1/2 W1/2 Section 10: Section 11: SW1/4 SW1/4 Section 12; Section 13 except S¹/₂ SE¹/₄, SW¹/₄ SW¹/₄; SW1/4 SW1/4 Section 14; Section 15; Section 17 except SW1/4 NW1/4; SW1/4, W1/2 NW1/4, E¹/₂ SE¹/₄, NW¹/₄ SE¹/₄, SE¹/₄ NE¹/₄ Section 18; Section 19 except E¹/₂ SW¹/₄, S¹/₂ NE¹/₄; NW1/4 SE1/4; N1/2, N1/2 SW1/4, E1/2 SE1/4 Section 20; Sections 21-23; S1/2 SW1/4, NE1/4 $NW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$ Section 24; Section 25; N1/2 Section 26; Section 27; Section 28 except S¹/₂ SE¹/₄; Section 29 except NW¹/₄ NW¹/₄; S1/2 SE1/4, SE1/4 NE1/4, NE1/4 NW1/4, SW1/4 NW¹/₄ Section 30: Section 31 except N¹/₂ NW¹/₄; Section 32 except SE¹/₄, Section 33; S¹/₂ Section 34; N¹/₂, NW¹/₄ SE¹/₄ Section 35; $N^{1/2}$ NE^{1/4} Section 36.

T.17S., R.08W. Willamette Meridian: Section 5: N¹/₂ NE¹/₄ Section 6.



Map and description of OR-04-k taken from United States Fish and

Wildlife Service 1:100,000 map; Corvallis, Eugene, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.12S., R.06W. Willamette Meridian: $NW^{1/4}$ $NW^{1/4}$ Section 31.

T.12S., R.07W. Willamette Meridian: SE $^{1/4}$, S $^{1/2}$ SW $^{1/4}$, S $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ SW $^{1/4}$ Section 10; Section 11 except N $^{1/2}$ NV $^{1/2}$; W $^{1/2}$ SW $^{1/4}$, SW $^{1/4}$ NW $^{1/4}$ Section 12; Sections 14–15; Section 16 except NW $^{1/4}$ NW $^{1/4}$; Section 19 except N $^{1/2}$ NV $^{1/2}$; Section 20 except SW $^{1/4}$ SW $^{1/4}$; Sections 21–23; W $^{1/2}$ Section 24; Sections 25; Section 26 except SE $^{1/4}$ SW $^{1/4}$; Sections 27–30; Section 31 except NV $^{1/2}$ NW $^{1/4}$, NW $^{1/4}$ NE $^{1/4}$; Sections 33–34; Sections 35 except N $^{1/2}$ NW $^{1/4}$; N $^{1/2}$ N $^{1/2}$, W $^{1/2}$, W $^{1/2}$, SW $^{1/4}$, SW $^{1/4}$ NW $^{1/4}$ Section 36.

T.12S., R.08W. Willamette Meridian: SW1/4 SW1/4 Section 2; SW1/4, S1/2 SE1/4 Section 3; $NW^{1/4}$ $NW^{1/4}$, $W^{1/2}$ $SE^{1/4}$ Section 4; Section 5 except NW1/4, S1/2 SW1/4, NE1/4 SE1/4; NE1/4, E¹/₂ NW¹/₄ Section 7; W¹/₂ NW¹/₄, N¹/₂ SE¹/₄ Section 8; Section 9 except NE1/4 NE1/4, W1/2 SW1/4, SE1/4 SW1/4, W1/2 SE1/4; SE1/4, NE1/4 NE1/4 Section 10; Section 11 except N1/2 NE1/4, NE1/4 NW1/4, SE1/4 SE1/4; Section 12 except N1/2, NE1/4 SE1/4; E1/2, E1/2 SW1/4 Section 13; N¹/₂ N¹/₂, S¹/₂ NE¹/₄, SE¹/₄ SW¹/₄ Section 15; $N^{1/2}$ $NE^{1/4}$, $NW^{1/4}$ $NW^{1/4}$ Section 16; Section 17 except NW1/4, NW1/4 NE1/4; SW¹/₄, W¹/₂ SE¹/₄, SW¹/₄ NW¹/₄ Section 18; W¹/₂, SW¹/₄ SE¹/₄ Section 19; S¹/₂ NE¹/₄ Section 20; Section 21; Section 22 except NW¹/₄ NW¹/₄; SE¹/₄, S¹/₂ SW¹/₄ Section 23; W1/2 W1/2 Section 24; Section 25; N1/2 Section 26; Section 27; W1/2 SW1/4 Section 28; Section 29 except E1/2 NE1/4, NW1/4 NE1/4; W1/2 SW1/4, N1/2 NW1/4, NW1/4 NE1/4, NE1/4 SE1/4 Section 30; Section 31; SW1/4 SW1/4 Section 32; Section 33 except SE1/4, W1/2 NE1/4, NW1/4 NW1/4; Section 35 except SW1/4 NW¹/₄, NW¹/₄ SW¹/₄; SE¹/₄ SE¹/₄ Section 36.

T.12S., R.09W. Willamette Meridian: $E^{1/2}$ SE¹/₄, SE¹/₄ NE¹/₄ Section 13; $E^{1/2}$ E¹/₂ Section 24. T.13S., R.07W. Willamette Meridian:

T.13S., R.07W. Willamette Meridian: NW¹/4 NW¹/4 Section 1; N¹/2 NE¹/4, S¹/2 SE¹/4, W¹/2 NW¹/4, N¹/2 SW¹/4, SW¹/4 SW¹/4, SE¹/4 NW¹/4, SW¹/4 NE¹/4 Section 2; Section 3; Section 5; W¹/2 Section 6; Section 7; Section 9; N¹/2 NW¹/4, SW¹/4 NW¹/4 Section 15; Section 17; SW¹/4 SW¹/4 Section 18; N¹/2 SW¹/4, SE¹/4, SE¹/4, SE¹/4, SE¹/4, SE¹/4, SE¹/4, SE¹/4, SE¹/4, N¹/2 Section 19; E¹/2 NW¹/4, NE¹/4 SW¹/4, W¹/2 NE¹/4 Section 21; S¹/2, W¹/2 NW¹/4 Section 27; Section 35 except S¹/2, NE¹/4 NE¹/4.

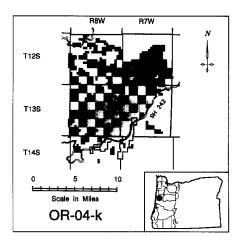
T.13S., R.08W. Willamette Meridian: Section 1; NE¹/₄ Section 2; Section 3 except NE¹/₄ NE¹/₄; Section 5; S¹/₂ Section 6; Section 7; E¹/₂ SE¹/₄ Section 8; Section 9 except NW¹/₄ NE¹/₄; Section 11; W¹/₂ NW¹/₄, SE¹/₄ NW1/4, E1/2 SE1/4, NW1/4 SE1/4, SE1/4 NE1/4, NE1/4 SW1/4 Section 12; Section 13; E1/2, NE1/4 SW¹/₄ Section 14; Section 15; Section 17; Sections 19-21; Section 23; W¹/₂ W¹/₂, SE¹/₄ NW¹/₄, SE¹/₄ NE¹/₄ Section 24; Section 25; W1/2 SE1/4, E1/2 SW1/4, SW1/4 SW1/4, NW1/4 NW¹/₄ Section 26; Section 27; Section 29; NW1/4, NW1/4 SW1/4, SW1/4 SE1/4 Section 30; Section 31; SE1/4 SE1/4, SW1/4 NW1/4 Section 32; Section 33; SW1/4 NW1/4 Section 34; Section 35 except E1/2 SE1/4.

T.13S., R.09W. Willamette Meridian: $E^{1/2}$ $E^{1/2}$ Section 25.

T.14S., R.07W. Willamette Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 5; $NE^{1/4}$ $NE^{1/4}$ Section 7; $NW^{1/4}$ $NW^{1/4}$ Section 8.

T.14S., R.08W. Willamette Meridian: NW¹/4 NW¹/4 Section 2; N¹/2 N¹/2, N¹/2 SW¹/4, S¹/2 NW¹/4 Section 3; Section 5 except S¹/2 SE¹/4; Section 7 except W¹/2 SW¹/4, SW¹/4 NW¹/4, N¹/2 NW¹/4; SE¹/4, S¹/2 NE¹/4, NE¹/4 NE¹/4 Section 11; W¹/2 SW¹/4 Section 15.

T.14S., R.09W. Willamette Meridian: $NE^{1/4}$ $NE^{1/4}$ Section 1.



Map and description of OR-05-a taken from United States Fish and Wildlife Service 1:100,000 map; Reedsport, Cottage Grove, Coos Bay and Roseburg, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.22S., R.10W. Willamette Meridian: $N^{1/2}$, $NW^{1/4}$ SW $^{1/4}$, $NW^{1/4}$ SE $^{1/4}$ Section 35.

Proposed Critical Habitat includes only State lands described within the following areas:

T.22S., R.10W., Willamette Meridian: $E^{1/2}$ SW¹/₄, NW¹/₄ SE¹/₄, S¹/₂ SE¹/₄, SW¹/₄ NE¹/₄, SE¹/₄ NW¹/₄, SW¹/₄, Lots l, 2, 6–9, a portion of Lot 3 Section 07; Lot 5, Lot 7 Section 08; Lot 9, SE¹/₄ SW¹/₄ Section 14; Lots 9, 10, a portion of Lot 7, SE¹/₄ SE¹/₄ Section 15; $E^{1/2}$ SW¹/₄, SW¹/₄ SE¹/₄, Lots 5–8, Lots 10–15 Section 17; Sections 18–20; Section 21 except Lot 18; Section 22; Lots 5–11, SW¹/₄ NE¹/₄, E^{1} /₂ NW¹/₄, NE¹/₄ SW¹/₄, N¹/₂ SE¹/₄ Section 23; NE¹/₄ NW¹/₄ Section 24; Sections 26–34; E^{1} /₂ SW¹/₄, a portion of S¹/₂ SE¹/₄ Section 35.

T.22S., R.11W., Willamette Meridian: Lot 5, Lots 9–14 Section 01; S½ NW¼, SW¼ NE¼, NE¼, NE¼ SW¼, Lots 5–9 Section 02; NW¼ NE¼, SE¼ NE¼, E½ SE¼, Lot 1, a portion of SW¼ NE¼ SE¼ Section 03; Lots 1–4, N½ S½, NE¼, SE¼ NW¼ Section 09; Lots 2–3, N½ SW¼, NW¼ Section 10.

T.22S., R.11W., Willamette Meridian: Lot 1, Lots 4–7, a portion of Lot 3, NE 1 /4 NW 1 /4, NE 1 /4, NE 1 /4 SE 1 /4, a portion of NW 1 /4 Section 11; Sections 12–14; S 1 /2, NW 1 /4, a portion of S 1 /2 NE 1 /4 Section 15; Section 16; N 1 /2 SW 1 /4, SE 1 /4 SW 1 /4, E 1 /2 SE 1 /4, SW 1 /4

NE 1 /4, SE 1 /4 NW 1 /4, Lots 5–7 Section 19; S 1 /2 NE 1 /4, NE 1 /4 NE 1 /4, SE 1 /4, Lots 1–4 Section 17; S 1 /2 NW 1 /4, W 1 /2 E 1 /2, SW 1 /4, NE 1 /4 NE 1 /4, Lots 1–4 Section 20; Sections 21–36.

 $\begin{array}{c} T.22S.,\ R.12W.,\ Willamette\ Meridian:\ Lots\\ 2-4,\ W^{1/2}\ SE^{1/4},\ SW^{1/4}\ NE^{1/4},\ SE^{1/4}\ NW^{1/4},\ E^{1/2}\\ SW^{1/4}\ Section\ 24;\ Lot\ 4,\ SW^{1/4}\ SE^{1/4},\ S^{1/2}\\ SW^{1/4}\ Section\ 25;\ N^{1/2}\ SE^{1/4},\ SE^{1/4}\ SE^{1/4}\ SE^{1/4}\\ Section\ 26;\ NE^{1/4}\ NE^{1/4},\ SW^{1/4}\ NE^{1/4},\ a\\ portion\ of\ E^{1/2}\ SE^{1/4}\ Section\ 35;\ Section\ 36. \end{array}$

T.23S., R.10W., Willamette Meridian: Lots 1–13, Lots 16–21, W¹/₂ SW¹/₄ Section 02; Section 03; Section 10.

T.23S., R.10W., Willamette Meridian: Lots 1, 4, 5, 8, 9, SE¹/₄ NW¹/₄, E¹/₂ SW¹/₄, SE¹/₄ Section 11; N¹/₂ NE¹/₄, NW¹/₄ Section 14; Section 15; Sections 22–23; SE¹/₄, NW¹/₄ Section 24; Sections 26–27.

T.23S., R.10W., Willamette Meridian: Sections 04–09; Sections 16–21; Sections 28–30; W¹/2 NW¹/4, NE¹/4, NW¹/4 SE¹/4, NE¹/4 SW¹/4, Lots 1–5, a portion of Lot 6 Section 31; N¹/2 NE¹/4, SW¹/4 NE¹/4, NW¹/4, NW¹/4 Section 32; W¹/2 NE¹/4, NW¹/4, NW¹/4 SW¹/4, NE¹/4 Section 33.

T.23S., R.11W., Willamette Meridian: Sections 01–06; $E^{1/2}$ $W^{1/2}$, $E^{1/2}$, Lots 2–4 Section 07; Sections 08–17; $N^{1/2}$, $N^{1/2}$ $SE^{1/4}$, Lot 3, a portion of $NE^{1/4}$ $SW^{1/4}$ Section 18; $S^{1/2}$ $NE^{1/4}$ $NW^{1/4}$, $NE^{1/4}$, $SE^{1/4}$ $NW^{1/4}$, $SE^{1/4}$, $E^{1/2}$ $SW^{1/4}$, Lots 2–4, a portion of Lot 1 Section 19.

T.23S., R.11W., Willamette Meridian: Sections 20–25; S 1 /₂, N 1 /₂ N 1 /₂, SW 1 /₄ NW 1 /₄, SE 1 /₄ NE 1 /₄, portions of SE 1 /₄ NW 1 /₄ and SW 1 /₄ NE 1 /₄ Section 26; Sections 27–29; Lots 1, 3, 4, SE 1 /₄, E 1 /₂ SW 1 /₄, N 1 /₂ NE 1 /₄, NE 1 /₄ NW 1 /₄ Section 30; Sections 31–36.

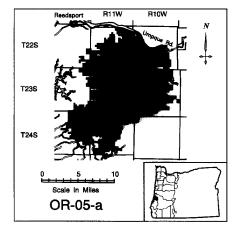
T.23S., R.12W., Willamette Meridian: NE 1 4 SE 1 4, Lots 1–4 Section 01; NE 1 4 Section 02; S 1 2 NE 1 4, SE 1 4 NW 1 4, SE 1 4 Section 12; NE 1 4, E 1 2 NW 1 4 Section 13; E 1 2 SE 1 4 Section 25; SE 1 4 SE 1 4, a portion of SW 1 4 SE 1 4 Section 27; E 1 2 NE 1 4, S 1 2 S 1 2, NE 1 4 Section 34; S 1 2, NE 1 4, W 1 2 NW 1 4, SE 1 4 Section 35; S 1 2 SE 1 4, SW 1 4, N 1 2 NE 1 4, W 1 2 NW 1 4, Portions of S 1 2 NE 1 4 and N 1 2 SE 1 4 Section 36.

T.24S., R.10W., Willamette Meridian: Lots 1–4, Lots 7–18 Section 06.

T.24S., R.11W., Willamette Meridian: Sections 01 and 02; Lots 1-4, S¹/₂ N¹/₂, SE¹/₄, $E^{1/2}$ SW¹/₄, portions of W¹/₂ SW¹/₄ Section 03; Section 04 except a portion of SE1/4 SE1/4; Sections 05-08; N¹/₂, SW¹/₄, N¹/₂ SE¹/₄, SW¹/₄ SE1/4 Section 09; Section 10; N1/2, N1/2 S1/2 Section 11; N¹/₂ Section 12; Sections 15–16; N¹/₂, N¹/₂ SW¹/₄, NW¹/₄ SE¹/₄, Lots 1-3, a portion of SE1/4 SE1/4 Section 17; Section 18; a portion of N¹/₂ NE¹/₄ Section 19; a portion of Lot 1, Lots 2-7, NE¹/₄ SE¹/₄, a portion of E¹/₂ NE¹/₄ Section 20; Section 21; N¹/₂, N¹/₂ S¹/₂, Lots 1-2 Section 22; Lots 4-5, W¹/₂ SW1/4, SE1/4 SW1/4, SW1/4 SE1/4 Section 27; Sections 28-29; a portion of Lot 1 Section 30; NE¹/₄, E¹/₂ NW¹/₄, N¹/₂ SE¹/₄ Section 31; N¹/₂, N1/2 SW1/4, NW1/4 SE1/4 Section 32.

 $T.24S.,~R.11W.,~Willamette~Meridian:~NW^1/4,~N^1/2~NE^1/4,~SE^1/4~NE^1/4~Section~33;~N^1/2~N^1/2~Section~34.$

T.24S., R.12W., Willamette Meridian: Sections 01–03; NE¹/₄ SE¹/₄, SE¹/₄ NE¹/₄ Section 04; SE¹/₄ SE¹/₄, a portion of E¹/₂ NE¹/₄ Section 09; Sections 10–14; E¹/₂, NE¹/₄ NW¹/₄, Lot 1, portions of Lot 2 and SE¹/₄ SW¹/₄ Section 15; S¹/₂ N¹/₂, N¹/₂ NE¹/₄ Section 16; NE¹/₄, SE¹/₄ NW¹/₄, NE¹/₄ SW¹/₄, N¹/₂ SE¹/₄ Section 22; Section 23 except SE¹/₄ NE¹/₄; Lots 1–2, NE¹/₄ NE¹/₄, W¹/₂ E¹/₂, SE¹/₄ SE¹/₄, S¹/₂ NW¹/₄, SW¹/₄, a portion of SE¹/₄ NE¹/₄ Section 24; Lots 1–2, N¹/₂ NE¹/₄, a portion of S¹/₂ NW¹/₄ Section 25.

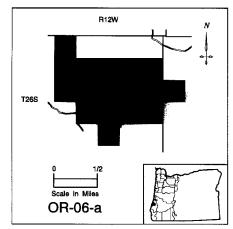


Map and description of OR-06-a taken from United States Fish and Wildlife Service 1:100,000 map; Coos Bay, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $T.26S.,\,R.11W.$ Willamette Meridian: $NW^{1}\!/_{\!4}\,SW^{1}\!/_{\!4}\,Section\,\,6.$

T.26S., R.12W. Willamette Meridian: Section 1 except N 1 /₂ N 1 /₂; E 1 /₂ NE 1 /₄, NE 1 /₄ SE 1 /₄ Section 2; NE 1 /₄ NW 1 /₄ Section 13.



Map and description of OR-06-b taken from United States Fish and Wildlife Service 1:100,000 map; Roseburg, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.25S., R.10W. Willamette Meridian: SE 1 /₄, SE 1 /₄ NE 1 /₄ Section 29; Section 31; Section

T.26S., R.09W. Willamette Meridian: SE¹/₄, E¹/₂ SW¹/₄ Section 9; Section 10 except NE¹/₄; Section 17; S¹/₂ S¹/₂ Section 18; Section 19;

 $SW^{1/4} \ Section \ 20; \ Section \ 21; \ N^{1/2} \ N^{1/2}, \ S^{1/2} \\ S^{1/2} \ Section \ 28; \ Section \ 29; \ Section \ 31 \ except \\ N^{1/2} \ SW^{1/4}, \ SW^{1/4} \ SW^{1/4}; \ SW^{1/4}, \ W^{1/2} \ SE^{1/4}, \\ SE^{1/4} \ NW^{1/4} \ Section \ 32; \ Section \ 33.$

T.26S., R.10W. Willamette Meridian: Sections 3–5; E½, SE½ NW½ Section 6; Section 7; SW¼, S½ NE⅓ Section 8; Section 9; Section 11; Section 13; N½ Section 14; Sections 15–17; Section 19; SE⅓ Section 20; NE⅓, E½ NW⅓, NW⅓ NW⅓ Section 21; N½ Section 22; Section 23; N½ N½, N½ S½ Section 24; Section 25; Section 27; NE⅓ Section 28; Section 29–31; E½ Section 32; Section 33; Section 35 except SE⅓.

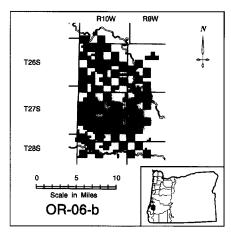
T.27S., R.09W. Willamette Meridian: Sections 4–5; SE¹/4, NE¹/4 NE¹/4, SE¹/4 SW¹/4 Section 6; Section 7 except NW¹/4 SW¹/4; N¹/2 NW¹/4, W¹/2 SW¹/4 Section 8; Section 9; Section 17; Section 18 except SW¹/4, SE¹/4 SE¹/4; Section 19 except NE¹/4 NE¹/4; Sections 29–31; E¹/2 SE¹/4, SW¹/4 SE¹/4 Section 33.

T.27S., R.10W. Willamette Meridian: $E^{1/2}$ $E^{1/2}$, $W^{1/2}$ $SE^{1/4}$ Section 1; Section 3; $S^{1/2}$ $SW^{1/4}$ Section 4; Section 5; $SE^{1/4}$ Section 6; Sections 7–9; $NE^{1/4}$, $SE^{1/4}$ Sel/4 Section 10; Section 11; $S^{1/2}$ $NW^{1/4}$, $W^{1/2}$ $SW^{1/4}$, $SE^{1/4}$ $SE^{1/4}$ Section 12; Sections 13–15; $N^{1/2}$ Section 16; Sections 17–20; Sections 21–23; $W^{1/2}$ $NW^{1/4}$ Section 24; Sections 25–28; Section 29 except $S^{1/2}$ $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$, $NE^{1/4}$, $SE^{1/4}$, $SE^{1/4}$, $SE^{1/4}$, $S^{1/2}$ $SW^{1/4}$, $SW^{1/4}$ Section 30; Section 31; $S^{1/2}$ $S^{1/2}$, $S^{1/2}$ $NW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$ Section 32; Section 33 except $SW^{1/4}$ $SW^{1/4}$; $SW^{1/4}$ $NW^{1/4}$ Section 35.

T.28S., R.09W. Willamette Meridian: SE $^{1/4}$ SW $^{1/4}$ Section 4; Section 5; Section 7 except N $^{1/2}$ NW $^{1/4}$; Section 9.

 $\begin{array}{c} T.28S.,\,R.10W.\,\,Willamette\,\,Meridian:\\ Section\,\,1;\,Section\,\,3\,\,except\,\,N^{1/2}\,\,SE^{1/4};\\ Sections\,\,4-5;\,\,N^{1/2}\,\,NE^{1/4},\,\,NE^{1/4}\,\,NW^{1/4},\,\,SE^{1/4}\\ SE^{1/4}\,\,Section\,\,6;\,\,Section\,\,7\,\,except\,\,W^{1/2}\,\,NW^{1/4}\\ NW^{1/4}\,\,SW^{1/2},\,\,N^{1/2},\,\,NE^{1/4}\,\,NW^{1/4}\,\,Section\\ 8;\,\,Section\,\,9\,\,except\,\,NE^{1/4};\,\,N^{1/2}\,\,NE^{1/4},\,\,E^{1/2}\\ NW^{1/4},\,\,E^{1/2}\,\,SE^{1/4}\,\,Section\,\,11;\,\,NW^{1/4}\,\,NW^{1/4}\\ Section\,\,12. \end{array}$

T.28S., R.11W. Willamette Meridian: $E^{1/2}$ SE¹/4 Section 1.



Map and description of OR-06-c taken from United States Fish and Wildlife Service 1:100,000 map; Roseburg and Canyonville, Oregon; 1995.

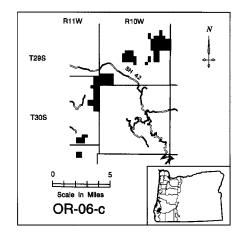
Proposed Critical Habitat includes only Federal lands designated as Late

Successional Reserves described within the following areas:

T.29S., R.10W. Willamette Meridian: $SW^{1/4}$ $NW^{1/4}$, $SE^{1/4}$ $SW^{1/4}$, $W^{1/2}$ $SW^{1/4}$ Section 11; $S^{1/2}$ $SE^{1/4}$, $W^{1/2}$ $SW^{1/4}$ Section 12; Section 13; Section 14 except $W^{1/2}$ $W^{1/2}$; $E^{1/2}$ $SE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$ Section 20; Section 21 except $E^{1/2}$ $NE^{1/4}$; $E^{1/2}$, $W^{1/2}$ $SW^{1/4}$ Section 23; $NE^{1/4}$ $NE^{1/4}$ Section 27; $NE^{1/4}$ $NE^{1/4}$ Section 28; Section 31.

T.30S., R.11W. Willamette Meridian: $E^{1/2}$, SE $^{1/4}$ SW $^{1/4}$ Section 1 Section 12 except W $^{1/2}$; $E^{1/2}$, NW $^{1/4}$ Section 13; N $^{1/2}$ SE $^{1/4}$, S $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ SW $^{1/4}$, SE $^{1/4}$ NW $^{1/4}$ Section 35; NW $^{1/4}$ NW $^{1/4}$ Section 36.

T.31S., R.11W. Willamette Meridian: $SW^{1/4}$ Section 2.



Map and description of OR-06-d taken from United States Fish and Wildlife Service 1:100,000 map; Roseburg, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $\begin{array}{c} T.28S.,\ R.07W.\ Willamette\ Meridian:\ N^{1}\!\!/_{2},\\ E^{1}\!\!/_{2}\ SE^{1}\!\!/_{4},\ NW^{1}\!\!/_{4}\ SW^{1}\!\!/_{4}\ Section\ 5;\ N^{1}\!\!/_{2}\ NW^{1}\!\!/_{4},\\ NW^{1}\!\!/_{4}\ NE^{1}\!\!/_{4},\ S^{1}\!\!/_{2}\ SE^{1}\!\!/_{4},\ W^{1}\!\!/_{2}\ SW^{1}\!\!/_{4};\ Section\ 7;\ SE^{1}\!\!/_{4}\ NE^{1}\!\!/_{4}\ Section\ 8;\ NW^{1}\!\!/_{4}\ NW^{1}\!\!/_{4}\ Section\ 9;\ SW^{1}\!\!/_{4}\ Section\ 17;\ NW^{1}\!\!/_{4}\ NW^{1}\!\!/_{4}\ Section\ 18;\ Section\ 19;\ NW^{1}\!\!/_{4}\ Section\ 20. \end{array}$

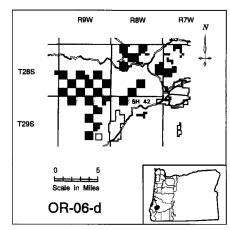
T.28S., R.08W. Willamette Meridian: Section 3 except SE 1 4 SE 1 4; NW 1 4 NW 1 4 Section 4; Section 5; NE 1 4 Section 8; Section 9; NE 1 4 NE 1 4, NW 1 4 NW 1 4 Section 10; NW1/W NW 1 4 Section 11; Section 13 except W 1 2 W 1 2, NE 1 4 NW 1 4; N 1 2 NW 1 4, NW 1 4 NE 1 4 Section 15; Section 17; NE 1 4, L 1 2 NW 1 4 Section 24; Section 27; Section 33.

T.28S., R.09W. Willamette Meridian: Section 19; Section 21; SW¹/₄ Section 22; Section 23; Section 25; Section 27; Section 29; Section 31; Section 33; Section 35.

T.28S., R.10W. Willamette Meridian: NE 1 /4 Section 24.

T.29S., R.08W. Willamette Meridian: Section 5; SE¹/₄ SE¹/₄ Section 10; SW¹/₄ SW¹/₄ Section 11; N¹/₂ N¹/₂, SE¹/₄ NE¹/₄ Section 15.

T.29S., R.09W. Willamette Meridian: Section 1 except SE¹/₄, Section 3; Section 5; Section 11 except N¹/₂ NE¹/₄; Section 15; Section 23 except S¹/₂ SE¹/₄, NE¹/₄ SE¹/₄, SE¹/₄ NE¹/₄; Section 27.



Map and description of OR-07-a taken from United States Fish and Wildlife Service 1:100,000 map; Port Orford, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.31S., R.12W. Willamette Meridian: $N^{1/2}$ NW^{1/4}, SW^{1/4} NW^{1/4} Section 5; SE^{1/4}, E^{1/2} SW^{1/4}, SW^{1/4} SW^{1/4}, NE^{1/4} NW^{1/4} Section 15; Section 21; Section 22 except SE^{1/4}; Section 23 except E^{1/2} NE^{1/4}, SW^{1/4} NE^{1/4}; W^{1/2} NW^{1/4} Section 25; Section 27.

T.32S., R.10W. Willamette Meridian: Section 2 except E1/2 E1/2; Section 3 except E¹/₂ NE¹/₄, SW¹/₄ NE¹/₄; SE¹/₄ SE¹/₄ Section 4; $S^{1/2}$, $W^{1/2}$ $NW^{1/4}$ Section 7; $W^{1/2}$ $SW^{1/4}$, $SE^{1/4}$ NE1/4 Section 8; Section 9 except N1/2 N1/2, $E^{1/2}$ SE¹/₄, SE¹/₄ NE¹/₄; Section 10 except NW¹/₄ NW¹/₄, SW¹/₄ SW¹/₄; Section 11 except $E^{1/2}$ $NE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$, $SW^{1/4}$ $SE^{1/4}$, $SE^{1/4}$ SW1/4; NW1/4 NW1/4 Section 14; N1/2 N1/2, SE1/4 NE1/4, W1/2 SW1/4, S1/2 NW1/4 Section 15; Sections 16-17; E¹/₂ E¹/₂ Section 18; Section 19 except S1/2 NW1/4, NE1/4 NW1/4, NW¹/₄ NE¹/₄: Section 20–21: W¹/₂ NW¹/₄. SW1/4 NW1/4 Section 22; N1/2 N1/2 Section 28; N1/2 NE1/4, NW1/4 NE1/4 Section 29; W1/2 W1/2 Section 30; W1/2 NW1/4 Section 31.

T.32S., R.11W. Willamette Meridian: SE1/4 Section 1; N1/2 N1/2, SW1/4 NW1/4 Section 4; Section 5; N1/2, NE1/4 SE1/4 Section 6; NE1/4 SE1/4 Section 7; Section 8 except SW1/4 NW¹/₄; W¹/₂ Section 9; Section 12 except SW¹/₄ SW¹/₄; Section 13; SE¹/₄ Section 14; Section 16 except E1/2, SE1/4 SW1/4; Section 17; Section 18 except N¹/₂ NW¹/₄, E¹/₂ SW¹/₄, NW¹/₄ SE¹/₄; Sections 19–20; W¹/₂ W¹/₂ Section 21; SE1/4 Section 22; Section 23 except SE1/4 NE1/4; Section 24 except S1/2 NW¹/₄, N¹/₂ SW¹/₄; Sections 25–26; NE¹/₄ Section 27; E1/2, S1/2 SW1/4 Section 28; S1/2 S1/2, W1/2 NW1/4, NW1/4 SW1/4 Section 29; Sections 30-32; Section 33 except W1/2 NE1/4, E¹/₂ NW¹/₄; Section 34; Section 35 except NE1/4 NE1/4; NE1/4, W1/2 W1/2, NW1/4 SW1/4 Section 36.

T.32S., R.12W. Willamette Meridian: $E^{1/2}$ NE¹/4, N¹/2 SE¹/4, SW¹/4 SE¹/4 Section 1; W¹/2 NW¹/4 Section 2; Section 3; Section 10 except SE¹/4 SE¹/4; E¹/2 SE¹/4 Section 13; W¹/2, NW¹/4 NE¹/4 Section 15; E¹/2 SE¹/4, SE¹/4 NE¹/4 Section 16; Sections 19–20; NW¹/4, N¹/2 SW¹/4, W¹/2 NE¹/4 Section 21; SE¹/4 SE¹/4 Section 23; E¹/2 E¹/2, S¹/2 SW¹/4 Section 24;

Section 25; Section 26 except N $^{1/2}$ NW $^{1/4}$, NW $^{1/4}$ NE $^{1/4}$, SW $^{1/4}$ NW $^{1/4}$; S $^{1/2}$ SE $^{1/4}$, SE $^{1/4}$ SW $^{1/4}$ Section 27; N $^{1/2}$ NW $^{1/4}$, SW $^{1/4}$ NW $^{1/4}$ Section 29; Section 30 except S $^{1/2}$ SE $^{1/4}$, NE $^{1/4}$, W $^{1/2}$ Section 31; SE $^{1/4}$, S $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$, NE $^{1/4}$, SE $^{1/4}$ SW $^{1/4}$ Section 33; Sections 34–36.

T.32S., R.13W. Willamette Meridian: Section 4 except N½ N½, SW¼ NW¼; S½ Section 5; Section 6 except N½, N½ SW¼, NW¼ SE¼; N½, S½ S½, NE¼ SE¼ Section 7; Section 8; NE¼ NE¼ Section 17; Sections 22–23; S½ Section 24; Sections 25– 27; SE¼ NE¼ Section 31; Section 32 except NW¼ NW¼; Section 33–36.

T.32S., R.14W. Willamette Meridian: $SE^{1/4}$ SE^{1/4} Section 12; N^{1/2} Section 17; W^{1/2} SW^{1/4} Section 19; Section 22 except W^{1/2} W^{1/2}, SE^{1/4} SW^{1/4}, NE^{1/4}, NE^{1/4}, SE^{1/4}; Section 23 except S^{1/2} SE^{1/4}, NE^{1/4} NE^{1/4}; Section 24 except N^{1/2} N^{1/2}, W^{1/2} SW^{1/4}, SE^{1/4} NW^{1/4}, SW^{1/4} NE^{1/4}; E^{1/2} NE^{1/4}, NW^{1/4} NE^{1/4}, NE^{1/4} Section 25; W^{1/2} SW^{1/4}, SE^{1/4} Sw^{1/4}, SW^{1/4} Section 29; SE^{1/4}, E^{1/2} SW^{1/4}, SW^{1/4} SW^{1/4}, NW^{1/4} NW^{1/4} NW^{1/4} Section 30; Section 31 except W^{1/2} NW^{1/4}, NW^{1/4} SW^{1/4}; Section 32; W^{1/2} W^{1/2}, NE^{1/4} SW^{1/4} Section 33.

T.32S., R.15W. Willamette Meridian: E¹/₂ SE¹/₄ Section 25.

 $\begin{array}{c} T.33S., R.11W. \ Willamette \ Meridian: \\ Sections \ 7-8; Section \ 9 \ except \ E^{1}\!\!/_2 \ NW^{1}\!\!/_4, \\ W^{1}\!\!/_2 \ NE^{1}\!\!/_4; Sections \ 10-11; \ NW^{1}\!\!/_4, \ W^{1}\!\!/_2 \\ NE^{1}\!\!/_4, \ W^{1}\!\!/_2 \ SW^{1}\!\!/_4, \ NE^{1}\!\!/_4 \ SW^{1}\!\!/_4, \ NW^{1}\!\!/_4 \ SE^{1}\!\!/_4 \\ Section \ 12; \ NW^{1}\!\!/_4 \ NW^{1}\!\!/_4, \ SE^{1}\!\!/_4 \ NW^{1}\!\!/_4 \ Section \ 13; Section \ 14 \ except \ SE^{1}\!\!/_4, \ E^{1}\!\!/_2 \ SW^{1}\!\!/_4, \ NW^{1}\!\!/_4 \ SE^{1}\!\!/_4; Section \ 22 \ except \ SE^{1}\!\!/_4 \ SE^{1}\!\!/_4; \ W^{1}\!\!/_2 \ NW^{1}\!\!/_4 \ SW^{1}\!\!/_4 \ NW^{1}\!\!/_4 \ SE^{1}\!\!/_4, \ NW^{1}\!\!/_4 \ Section \ 28; \ W^{1}\!\!/_2, \ N^{1}\!\!/_2 \ NE^{1}\!\!/_4, \ NW^{1}\!\!/_4 \ Section \ 32 \ except \ N^{1}\!\!/_2 \ NE^{1}\!\!/_4; \ NW^{1}\!\!/_4 \ NW^{1}\!\!/_4 \ Section \ 33. \end{array}$

T.33S., R.12W. Willamette Meridian: Sections 7–8; S½, SW¼ NW¼ Section 9; Section 10 except NW¼, NW¼ NE¼; Sections 11–32; Section 33 except E½ SE¼; Section 34 except N½ SW¼; Sections 35–36.

T.33S., R.13W. Willamette Meridian: SE 1 4 Se 1 4 Section 8; Sections 9–16; Section 17 except NW 1 4, W 1 2 NE 1 4; SE 1 4 Se 1 4 Section 18; Sections 19–20; Section 21 except SE 1 4; N 1 2 N 1 2, SE 1 4 NE 1 4 Section 22; Section 23 except S 1 2 SW 1 4; Sections 24–25; NW 1 4 Section 28; Section 29 except S 1 2 S 1 2, NE 1 4 Section 30 except S 1 2 SE 1 4; N 1 2 NW 1 4, SW 1 4 SW 1 4 Section 31; SE 1 4 Section 34; Section 35 except NW 1 4 NW 1 4; Section 36.

T.33S., R.14W. Willamette Meridian: $W^{1/2}$ Section 5; Section 7 except $N^{1/2}$ $N^{1/2}$, $NW^{1/4}$ $SW^{1/4}$, $SW^{1/4}$ $NW^{1/4}$; $W^{1/2}$ $SW^{1/4}$ Section 8; $SW^{1/4}$, $S^{1/2}$ $SE^{1/4}$, $S^{1/2}$ $NW^{1/4}$ Section 13; $SE^{1/4}$, $S^{1/2}$ $SW^{1/4}$, $S^{1/2}$ $NE^{1/4}$ Section 14; $S^{1/2}$ $SW^{1/4}$, $NW^{1/4}$ Section 15; $SE^{1/4}$, $NW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$ Section 18; $E^{1/2}$ $NW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$ Section 18; $E^{1/2}$ $NW^{1/4}$, $NW^{1/4}$ $NW^{1/4}$ Section 20; $SE^{1/4}$, $S^{1/2}$ $N^{1/2}$, $NE^{1/4}$ $NE^{1/4}$ Section 22 except $S^{1/2}$ $SW^{1/4}$, $NE^{1/4}$ $NE^{1/4}$; Sections 23–28; Section 29 except $NW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$; $SE^{1/4}$ $SE^{1/4}$ Section 30; $NE^{1/4}$ $NE^{1/4}$ Section 31; Sections 32–35; Section 36 except $NW^{1/4}$, $E^{1/2}$ $SE^{1/4}$.

T.34S., R.11W. Willamette Meridian: NW 1 /4, NW 1 /4 NE 1 /4, NW 1 /4 SW 1 /4 Section 4; Sections 5–6; Section 7 except NE 1 /4 SE 1 /4; Section 8 except S 1 /2 NW 1 /4; NE 1 /4 NW 1 /4,

 $\begin{array}{l} NW^{1\!/4}\ NE^{1\!/4};\ SW^{1\!/4}\ NW^{1\!/4}\ Section\ 9;\ NW^{1\!/4}\\ SW^{1\!/4},\ SW^{1\!/4}\ NW^{1\!/4}\ Section\ 17;\ NE^{1\!/4},\ NE^{1\!/4}\\ SE^{1\!/4}\ Section\ 18;\ Section\ 19\ except\ NE^{1\!/4}\\ NE^{1\!/4},\ NE^{1\!/4}\ SE^{1\!/4};\ W^{1\!/2},\ N^{1\!/2}\ NE^{1\!/4}\ Section\ 30;\\ SW^{1\!/4},\ E^{1\!/2}\ NW^{1\!/4}\ Section\ 31. \end{array}$

T.34S., R.12W. Willamette Meridian: Sections 1–3; Section 4 except SW $^{1}/_{4}$ SW $^{1}/_{4}$; Section 5 except S $^{1}/_{2}$ S $^{1}/_{2}$; Section 6 except SE $^{1}/_{4}$ SE $^{1}/_{4}$; Section 7 except E $^{1}/_{2}$ E $^{1}/_{2}$; SE $^{1}/_{4}$ Section 8; Section 9 except W $^{1}/_{2}$ NW $^{1}/_{4}$; Sections 10–36.

T.34S., R.13W. Willamette Meridian: Section 1; Section 2 except $SW^{1/4}$ $SW^{1/4}$; NE^{1/4}, NE^{1/4}, SE^{1/4}, E^{1/2} NW^{1/4} Section 3; Section 11 except W^{1/2} W^{1/2}; Sections 12–14; E^{1/2} SE^{1/4} Section 15; S^{1/2} $SW^{1/4}$, SW^{1/4} $SE^{1/4}$ Section 17; E^{1/2} E^{1/2} Section 19; Sections 20–25; Section 26 except W^{1/2} $SW^{1/4}$, SE^{1/4} $SW^{1/4}$.

T.35S., R.11W. Willamette Meridian: S½ SW¼, NE¼ NW¼ Section 6; NW¼, W½ NE¼ Section 7; S½ SW¼, NW¼ SW¼, S½ NW¼, NE¼ NW¼, NW¼ NE¼ Section 18; N½ NW¼, NE¼ SW¼ Section 19.

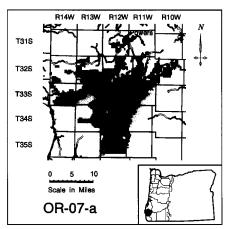
 $T.35S.,\ R.12W.$ Willamette Meridian: Sections 1–5; Section 6 except S½ SW½, SW½, SW½ SE½; SE½, E½ NE½ Section 7; Sections 8–11; W½ SW¼, NW¼ SW¼, SW¼, NE¼ NE¼ NE¼ NE½ Section 12; Section 13 except SE¼ NE¼, NE¼ SE½; Sections 14–29; Sections 30 except SE¼ NE¼, SE¼ SE½ SE½ SE½ SE½

T.35S., R.13W. Willamette Meridian: $SE^{1/4}$ $NE^{1/4}$ Section 25.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.32S., R.13W. Willamette Meridian: Sections 18–21; Sections 28–29; $N^{1/2}$ Section 30.



Map and description of OR-07-b taken from United States Fish and Wildlife Service 1:100,000 map; Port Orford and Gold Beach, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.35S., R.11W. Willamette Meridian: Section 31.

T.35S., R.12W. Willamette Meridian: Section 31 except $E^{1/2}$ $E^{1/2}$; Section 32 except $S^{1/2}$ $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$, $NW^{1/4}$ $SW^{1/4}$; Sections 33–36.

 $T.35S.,\,R.13W.$ Willamette Meridian: Section 31 except W½ SW¼, S½ NW¼; Section 32 except E½ SE¼, Section 33 except N½ SE¼, SW¼ SW¼, NW¼ NW¼ Section 34 except NE¼ SW¼, NW¼ SE¼; Section 35; Section 36 except NE¼ SE¼.

T.36S., R.12W. Willamette Meridian: Sections 1–2; Section 3 except SW 1 /4 NE 1 /4; Section 4; NE 1 /4, E 1 /2 SE 1 /4, NE 1 /4 NW 1 /4 Section 5; E 1 /2 E 1 /2 Section 8; Sections 9–16; Section 17 except N 1 /2 NW 1 /4, SE 1 /4 SE 1 /4 Section 18; E 1 /2 E 1 /2, NW 1 /4 NE 1 /4 Section 19; Sections 20–24; N 1 /2 NW 1 /4, NW 1 /4 NE 1 /4 Section 25; Section 26 except N 1 /2 SE 1 /4; Sections 27–29; Section 30 except W 1 /2, SW 1 /4 SE 1 /4; SE 1 /4, E 1 /2 SW 1 /4, E 1 /2 NE 1 /4 Section 31; Sections 32–35; SW 1 /4, W 1 /2 NW 1 /4 Section 36.

T.36S., R.13W. Willamette Meridian: Sections 1-3; Section 4 except SW1/4, S1/2 NW¹/₄, S¹/₂ SE¹/₄; Section 5 except S¹/₂ NE¹/₄, NW¹/₄ NW¹/₄; Section 6 except N¹/₂ NE¹/₄, SW¹/₄ SW¹/₄; N¹/₂, SW¹/₄ SE¹/₄ Section 7; Section 8 except SE1/4 NE1/4; Section 9 except $NW^{1/4}\;NE^{1/4},\;\hat{NE}^{1/4}\;NW^{1/4},\;SW^{1/4}\;NW^{1/4},$ NW1/4 SW1/4; Sections 10-11; Section 12 except E1/2 SE1/4, SE1/4 NE1/4; Section 13 except SE1/4, E1/2 NE1/4, SW1/4 NE1/4, E1/2 SW¹/₄; Section 14 except SW¹/₄; Section 15 except W1/2 NW1/4, NW1/4 SW1/4; N1/2 NE1/4, SW¹/₄, S¹/₂ SE¹/₄ Section 17; E¹/₂, E¹/₂ SW¹/₄ Section 18; Section 19 except W¹/₂ NW¹/₄, W¹/₂ SE¹/₄, SE¹/₄ NW¹/₄; NW¹/₄, SW¹/₄ NE¹/₄, SW1/4 SE1/4 Section 20; Section 22 except NW¹/₄, NW¹/₄ SW¹/₄; Section 23; Section 24 except NE1/4; Sections 25-26; Section 27 except N1/2 NW1/4; E1/2 SE1/4 Section 28; Section 29 except $E^{1/2}$ $E^{1/2}$; Sections 30–32; W¹/₂ SW¹/₄ Section 33; Section 34; N¹/₂, W¹/₂ SW1/4 Section 35; N1/2 N1/2 Section 36.

T.36S., R.12 1 /2W. Willamette Meridian: Section 1 except E 1 /2 SE 1 /4; Section 12 except E 1 /2 E 1 /2, SW 1 /4 SE 1 /4, SW 1 /4, E 1 /2 NW 1 /4 Section 24; W 1 /2 Section 25; NW 1 /4 NW 1 /4 Section 36.

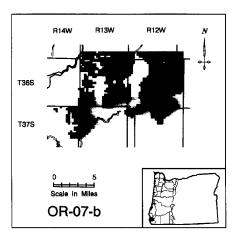
T.36S., R.14W. Willamette Meridian: SE¹/₄ SE¹/₄ Section 24.

T.37S., R.12W. Willamette Meridian: NW $^{1}/_{4}$ NW $^{1}/_{4}$ Section 1; Section 2 except SE $^{1}/_{4}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$ SW $^{1}/_{4}$; Section 3 except NW $^{1}/_{4}$ SW $^{1}/_{4}$; Section 4; N $^{1}/_{2}$ NV $^{1}/_{4}$ Section 5; Section 6 except S $^{1}/_{2}$ NW $^{1}/_{4}$ NW $^{1}/_{4}$; NE $^{1}/_{4}$ E $^{1}/_{2}$ SE $^{1}/_{4}$, N $^{1}/_{2}$ NW $^{1}/_{4}$ Section 9; W $^{1}/_{2}$, NW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 10; NW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 12.

T.37S., R.13W. Willamette Meridian: SE $^{1}/_4$ NE $^{1}/_4$, NE $^{1}/_4$ Section 1; W $^{1}/_2$ Section 5; Sections 6–7; Section 8 except NE $^{1}/_4$ NE $^{1}/_4$; W $^{1}/_2$ SW $^{1}/_4$ Section 9; NW $^{1}/_4$ NW $^{1}/_4$ Section 16; Section 17 except S $^{1}/_2$ SE $^{1}/_4$; Section 18; Section 19 except S $^{1}/_2$ SE $^{1}/_4$, NE $^{1}/_4$ SE $^{1}/_4$; N $^{1}/_2$ NW $^{1}/_4$ Section 20; NW $^{1}/_4$ NW $^{1}/_4$ Section 30.

T.37S., R.14W. Willamette Meridian: Section 1 except SW¹/₄ SW¹/₄; E¹/₂ E¹/₂, SW¹/₄ NE¹/₄ Section 2; NW¹/₄ SW¹/₄, SW¹/₄ NW¹/₄, NW¹/₄ Section 3; SE¹/₄ NE¹/₄ Section 12; SE¹/₄, N¹/₂ NE¹/₄, NE¹/₄ NW¹/₄ Section 13; NE¹/₄ NE¹/₄ Section 14; SE¹/₄ NE¹/₄ Section 23; Section 24 except NW¹/₄ NE¹/₄, NE¹/₄ NE¹/₄ NE¹/₄ NW¹/₄.

T.37S., R.12 $\frac{1}{2}$ W. Willamette Meridian: Section 1 except N $\frac{1}{2}$ NE $\frac{1}{4}$; NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 12.



Map and description of OR-07-c taken from United States Fish and Wildlife Service 1:100,000 map; Gold Beach, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.37S., R.11W. Willamette Meridian: $W^{1/2}$ SW $^{1/4}$ Section 31.

 $T.37S.,\,R.12W.$ Willamette Meridian: $S1\!/_2$ SW1\/4, W1\/2 SE1\/4 Section 17; SW1\/4 SE1\/4 Section 18; Section 19 except N1\/2 NW1\/4, NW1\/4 NE1\/4; Section 20; W1\/2 SW1\/4, SW1\/4 NW1\/4 Section 21; S1\/2 SE1\/4, SW1\/4, W1\/2 NW1\/4 Section 28; Sections 29–33; W1\/2, S1\/2 SE1\/4, NE1\/4 SE1\/4 Section 34; S1\/2, S1\/2 NE1\/4 Section 35; Section 36.

T.37S., R.13W. Willamette Meridian: SE 1 4, SE 1 4 SW 1 4 Section 24; Section 25; Section 26 except W 1 2 NW 1 4, NE 1 4 NW 1 4, NW 1 4, NE 1 4, SE 1 4, SE 1 4, SE 1 4, Section 34; Sections 35–36.

T.37S., R.12 ½W. Willamette Meridian: Section 19 except N½ NW¼, NE¼ NE¼; Section 25; Section 36.

T.37 ½S. R.11W. Willamette Meridian: $W^{1/2}$ SW 1 4 Section 31.

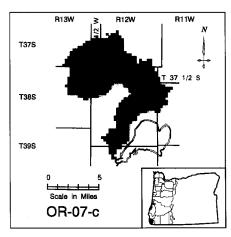
T.37 ½S. R.12.W. Willamette Meridian: Section 25 except E½ E½; Sections 26–36.

T.38S., R.11W. Willamette Meridian: Section 6 except NE¹/₄, S¹/₂ SE¹/₄, NE¹/₄ NW¹/₄; W¹/₂, W¹/₂ SE¹/₄, NW¹/₄ NE¹/₄ Section 7; N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄, NW¹/₄ SW¹/₄ Section 18.

T.38S., R.12W. Willamette Meridian: Sections 1-2; Section 3 except SW1/4 NW1/4, S¹/₂ SW¹/₄, NW¹/₄ SW¹/₄; E¹/₂ NE¹/₄ Section 4; NW¹/₄, N¹/₂ SW¹/₄, NW¹/₄ NE¹/₄ Section 5; Section 6; N¹/₂ NW¹/₄ Section 7; SE¹/₄, SE¹/₄ NE¹/₄, SE¹/₄ SW¹/₄ Section 9; Section 10 except NW1/4 NW1/4; Sections 11-12; N1/2 N¹/₂, SE¹/₄ NE¹/₄ Section 13; N¹/₂, NW¹/₄ SW1/4 Section 14; Section 15; Section 16 except NW1/4 NW1/4; E1/2 NE1/4 Section 20; Section 21; NW1/4, N1/2 NE1/4, W1/2 SW1/4 Section 22; W1/2 W1/2 Section 27; Section 28; Section 29 except N1/2 N1/2, SW1/4 NW1/4, NW¹/₄ SW¹/₄; N¹/₂ NE¹/₄, SE¹/₄ NE¹/₄ Section 31; Section 32 except SW1/4 SW1/4; Section 33 except S1/2 SE1/4; W1/2 NW1/4, SW1/4 SW1/4 Section 34.

T.38S., R.13W. Willamette Meridian: Sections 1–2; $E^{1/2}$ $E^{1/2}$, $SW^{1/4}$ $SE^{1/4}$ Section 10; Sections 11–13; Section 14 except $S^{1/2}$ $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$; $E^{1/2}$ $NE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$ $NE^{1/4}$ $NW^{1/4}$ Section 15; $NW^{1/4}$ $NE^{1/4}$, $NE^{1/4}$ $NW^{1/4}$ Section 24.

T.39S., R.12W. Willamette Meridian: $N^{1/2}$ NW $^{1/4}$ Section 4; Section 5 except W $^{1/2}$ W $^{1/2}$, SE $^{1/4}$ SW $^{1/4}$, SE $^{1/4}$ SE $^{1/4}$; N $^{1/2}$ NE $^{1/4}$ Section 6.



Map and description of OR-07-d taken from United States Fish and Wildlife Service 1:100,000 map; Gold Beach and Grants Pass, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.38S., R.11W. Willamette Meridian: $S^{1/2}$ SE^{1/4} Section 31.

T.39S., R.11W. Willamette Meridian: $S^{1/2}$ SW¹/₄, SW¹/₄ SE¹/₄ Section 4; SW¹/₄, W¹/₂ SE¹/₄, SE¹/₄ SE¹/₄, SW¹/₄ NW¹/₄ Section 5; E¹/₂, SE¹/₄ NW¹/₄ Section 6; NE¹/₄, SW¹/₄, NI²/₂ SE¹/₄ Section 7; Section 8 except S¹/₂ SW¹/₄, NE¹/₄ SW¹/₄, SW¹/₄ Section 9; W¹/₂ SW¹/₄, NE¹/₄ SW¹/₄ SW¹/₄ NW¹/₄ Section 10; N¹/₂ NW¹/₄, SW¹/₄ SW¹/₄ Section 15; Section 16 except W¹/₂ SW¹/₄, SW¹/₄ NW¹/₄; NE¹/₄ NE¹/₄ Section 17; Section 18 except NE¹/₄; Sections 19–20; Section 21 except SE¹/₄ SE¹/₄; W¹/₂ NW¹/₄ Section 28; N¹/₂ N¹/₂, W¹/₂ SW¹/₄ Section 29; Sections 30–31; Section 32 except NE¹/₄ NE¹/₄; SW¹/₄, SW¹/₄ NW¹/₄, SW¹/₄ SW¹/₄ SE¹/₄ Section 33.

T.39S., R.12W. Willamette Meridian: $S\frac{1}{2}$ SW¹/₄, SW¹/₄ SE¹/₄ Section 1; S¹/₂ S¹/₂ Section 2; S¹/₂ Section 3; Section 10 except S¹/₂ S¹/₂; Section 11 except S¹/₂ SW¹/₄; Section 12; E¹/₂, N¹/₂ NW¹/₄ Section 13; SW¹/₄ SW¹/₄ Section 18; W¹/₂, W¹/₂ E¹/₂, SE¹/₄ Section 20; Section 21; SE¹/₄, SW¹/₄, NE¹/₄ Section 20; Section 21; S¹/₂ S¹/₂, NW¹/₄ SW¹/₄, SW¹/₄ NW¹/₄ Section 24 except NW¹/₄ NW¹/₄; Sections 25–29; Section 30 except SE¹/₄ NW¹/₄, NE¹/₄ SW¹/₄; Sections 31–36.

T.39S., R.13W. Willamette Meridian: $S^{1/2}$ SW¹/4 Section 28; E¹/2 NE¹/4, E¹/2 SW¹/4, SE¹/4 Section 32; Section 33; W¹/2 SW¹/4 Section 34.

T.40S., R.09W. Willamette Meridian: SW¹/₄, SW¹/₄ NW¹/₄ Section 5; SE¹/₄ SE¹/₄ Section 6; Section 7 except SE¹/₄ SE¹/₄, NW¹/₄ NW¹/₄; NW¹/₄, NW¹/₄ SW¹/₄ Section 8; W¹/₂ W¹/₂ Section 18; W¹/₂ W¹/₂ Section 19; W¹/₂ SW¹/₄ Section 20; Section 27 except N¹/₂ N¹/₂; Section 28 except N¹/₂ NW¹/₄, NW¹/₄ NE¹/₄, SW¹/₄ NW¹/₄; SE¹/₄ SE¹/₄, SW¹/₄ SW¹/₄, NW¹/₄ NW¹/₄ Section 29; Section 30 except NE¹/₄ NW¹/₄, NW¹/₄ NE¹/₄; S¹/₂ S¹/₂ W¹/₂ NW¹/₄, NW¹/₄ Section 31; Section 32 except N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄, SW¹/₄ NW¹/₄, SW¹/₄ NW¹/₄, SW¹/₄ SE¹/₄, SE¹/₄ NE¹/₄, SW¹/₄ SE¹/₄.

T.40S., R.10W. Willamette Meridian: $E^{1/2}$ SE^{1/4}, SW^{1/4} SE^{1/4} Section 2; SE^{1/4} SE^{1/4} Section 4; SE^{1/4} Section 8; Section 9 except N^{1/2} NW^{1/4}, NW^{1/4} NE^{1/4}; Section 10 except NE^{1/4} NE^{1/4}; Section 11; S^{1/2}, W^{1/2} NW^{1/4}, SE^{1/4} NE^{1/4} Section 12; Sections 13–16; Section 17 except NW^{1/4}, NW^{1/4} NE^{1/4}, NW^{1/4} SW^{1/4}; Section 19 except NW^{1/4}, W^{1/2} SW^{1/4}, NW^{1/4} NE^{1/4}; Sections 20–36.

T.40S., R.11W. Willamette Meridian: $N^{1}/2$ $NW^{1}/4$, $SW^{1}/4$ $NW^{1}/4$, $NW^{1}/4$ $SW^{1}/4$, $NW^{1}/4$ $NW^{1}/4$ $NW^{1}/4$ $NE^{1}/4$ Section 4; Sections 5–8; $W^{1}/2$ $SW^{1}/4$ Section 9; Section 16 except $E^{1}/2$ $E^{1}/2$; Sections 16–21; $E^{1}/2$ $SE^{1}/4$, $SW^{1}/4$ $SE^{1}/4$ Section 25; Section 27 except $E^{1}/2$, $NE^{1}/4$ $NW^{1}/4$; Sections 28–33; $W^{1}/2$ Section 34; Section 36 except $NW^{1}/4$ $NW^{1}/4$.

T.40S., R.12W. Willamette Meridian: Sections 1–17; Section 18 except W¹/₂; Sections 19–30; E¹/₂, N¹/₂ NW¹/₄, NE¹/₄ SE¹/₄, SE¹/₄ NW¹/₄ Sections 31; Sections 32–36.

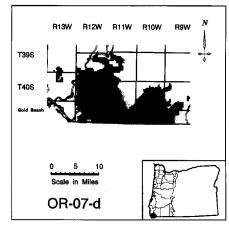
 $\begin{array}{c} T.40S.,\ R.13W.\ Willamette\ Meridian: \\ Section\ 4\ except\ S^{1/2}\ SE^{1/4};\ E^{1/2}\ E^{1/2}\ Section \\ 5;\ W^{1/2},\ NW^{1/4}\ NE^{1/4},\ S^{1/2}\ SE^{1/4},\ NE^{1/4}\ SW^{1/4} \\ Section\ 9;\ W^{1/2}\ Section\ 10;\ SE^{1/4}\ SW^{1/4} \\ Section\ 12;\ N^{1/2}\ NW^{1/4}\ Section\ 13. \end{array}$

T.41S., R.09W. Willamette Meridian: Sections 4–8; Sections 17–18.

T.41S., R.10W. Willamette Meridian: Sections 1–18.

T.41S., R.11W. Willamette Meridian: Section 1; Section 2 except $N^{1/2}$ $NE^{1/4}$, $SW^{1/4}$ $NE^{1/4}$; Sections 3–15; Sections 17–18.

T.41S., R.12W. Willamette Meridian: Sections 1–4; Section 5 except W¹/2, SW¹/4 SE¹/4; Section 7 except NW¹/4, W¹/2 SW¹/4, NW¹/4 NE¹/4; W¹/2, S¹/2 SE¹/4 Section 8; Section 9 except S¹/2 S¹/2, NW¹/4 SW¹/4; Section 10; Section 11 except SE¹/4 SW¹/4; Sections 12–13; SW¹/4, S¹/2 SE¹/4, NE¹/4 SE¹/4, NE¹/4 NE¹/4, NW¹/4 NW¹/4 Section 14; Section 15; Section 17; Section 18 except W¹/2 W¹/2.



Map and description of OR-07-e taken from United States Fish and Wildlife Service 1:100,000 map; Grants Pass, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.36S., R.08W. Willamette Meridian: $W^{1}/2$ SW¹/4, SW¹/4 NW¹/4 Section 18; W¹/2 W¹/2, SE¹/4 SW¹/4, SW¹/4 SE¹/4 Section 19; Section 30 except SE¹/4, SE¹/4 NE¹/4; W¹/2 Section 31.

T.36S., R.09W. Willamette Meridian: S $^{1/2}$, SE $^{1/4}$ NE $^{1/4}$ Section 13; E $^{1/2}$ SE $^{1/4}$ Section 14; SE $^{1/4}$, SE $^{1/4}$ SW $^{1/4}$ Section 20; S $^{1/2}$, S $^{1/2}$ NE $^{1/4}$ Section 21; S $^{1/2}$, S $^{1/2}$ NW $^{1/4}$ Section 22; Section 23 except N $^{1/2}$ NW $^{1/4}$; Sections 24–28; Section 29 except NW $^{1/4}$ NW $^{1/4}$; Section 30 except N $^{1/2}$ N $^{1/2}$, NW $^{1/4}$ SW $^{1/4}$; Section 31 except NW $^{1/4}$ NW $^{1/4}$; Sections 32–36.

T.36S., R.10W. Willamette Meridian: $E^{1/2}$ SE^{1/4} Section 36.

 $\begin{array}{c} T.37S.,\ R.08W.\ Willamette\ Meridian:\ S^{1/2}\\ SW^{1/4},\ NW^{1/4}\ SW^{1/4}\ Section\ 6;\ Section\ 7\\ except\ SE^{1/4}\ SE^{1/4};\ N^{1/2}\ NW^{1/4},\ SW^{1/4}\ NW^{1/4}\\ Section\ 18;\ NW^{1/4}\ Section\ 19. \end{array}$

T.37S., R.09W. Willamette Meridian: Sections 1–6; Section 7 except NE 1 /4 NE 1 /4; Section 8 except NE 1 /4 SE 1 /4, NW 1 /4 NE 1 /4, SE 1 /4 NW 1 /4; Sections 9–23; Section 24 except SE 1 /4 SE 1 /4; Section 25 except E 1 /2, SE 1 /4 SW 1 /4; Sections 26–32; Section 33 except NE 1 /4 SW 1 /4; Sections 34–35; W 1 /2 NW 1 /4 Section 36.

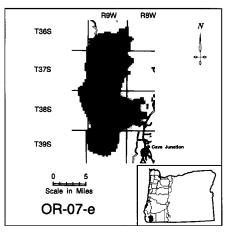
T.37S., R.10W. Willamette Meridian: E½ E½ Section 1; E½ E½, SW¼ SE¼ Section 12; E½ Section 13; E½ E½ Section 24; SE¼, S½ NE¼, NE¼ NE¼ SE¼ SE¼ SW¼ Section 25; SE¼, NE¼ NE¼ SE¼ Section 35; Section 36 except NW¼ NW¼.

T.38S., R.08W. Willamette Meridian: $S^{1/2}$, $SW^{1/4}$ $NW^{1/4}$ Section 7; Section 8 except $N^{1/2}$ $N^{1/2}$; $W^{1/2}$, $W^{1/2}$ $SE^{1/4}$ Section 9; $W^{1/2}$ $NW^{1/4}$, $NW^{1/4}$ Section 15; Sections 17–18; Section 19 except $SE^{1/4}$ $SE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$; Sections 20–21; $SW^{1/4}$ $SW^{1/4}$ Section 28; Section 29 except $NE^{1/4}$ $SE^{1/4}$, $SW^{1/4}$ $NE^{1/4}$, $SW^{1/4}$ $SW^{1/4}$; Section 30 except $S^{1/2}$ $SE^{1/4}$; $NW^{1/4}$ $NW^{1/4}$ Section 31; Section 32.

T.38S., R.09W. Willamette Meridian: Section 2 except E¹/₂ NE¹/₄, NE¹/₄ SE¹/₄; Section 3 except NE¹/₄ NE¹/₄; Sections 4–11; Section 12 except NE¹/₄ NE¹/₄; Sections 13– 23; Section 24 except NE¹/₄ NW¹/₄; Sections 25–29; Section 30 except W¹/₂ SW¹/₄; E¹/₂, S¹/₂ SW¹/₄ Section 31; Sections 32–35; Section 36 except S¹/₂ SE¹/₄, NE¹/₄ SE¹/₄, SE¹/₄ SW¹/₄.

T.38S., R.10W. Willamette Meridian: Section 1; Section 2 except $W^{1/2}$, $SW^{1/4}$ $SE^{1/4}$; $E^{1/2}$ $NE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$ Section 11; Section 12; Section 13 except $W^{1/2}$ $SW^{1/4}$; $NE^{1/4}$, $E^{1/2}$ $SE^{1/4}$ Section 24.

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Map and description of OR-07-f taken from United States Fish and Wildlife Service 1:100,000 map; Port Orford, Canyonville, Gold Beach and Grants Pass, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.32S., R.09W. Willamette Meridian: Section 34 except NW 1 /4 NW 1 /4; W 1 /2 SW 1 /4, SW 1 /4 Section 35.

T.32S., R.10W. Willamette Meridian: Section 25; E½ Section 26; Section 35 except N½ NW¼, SW¼ NW¼, SW¼ SW¼ SW¼ Section 35: Section 36.

T.33S., R.09W. Willamette Meridian: W¹/₂ SW¹/₄, SW¹/₄ NW¹/₄ Section 1; Section 2 except N¹/₂ NE¹/₄; Sections 3–11; W¹/₂ NW¹/₄ Section 12; Sections 14–23; Sections 26–35.

T.33S., R.10W. Willamette Meridian: Section 1; Section 2 except NW¹/₄ NW¹/₄; SE¹/₄ Section 3; S¹/₂ S¹/₂ Section 5; E¹/₂ E¹/₂, N¹/₂ SW¹/₄, NW¹/₄ SE¹/₄, SW¹/₄ NE¹/₄ Section 9; Sections 10–14; Section 15 except SW¹/₄ SW¹/₄; NE¹/₄ NE¹/₄ Section 16; S¹/₂ SE¹/₄ Section 21; Section 22 except W¹/₂ NW¹/₄; Sections 23–27; Section 28 except NW¹/₄, NE¹/₄ SW¹/₄; E¹/₂ E¹/₂ Section 31; Section 32 except NW¹/₄, NE¹/₄ NE¹/₄ NE¹/₄ NE¹/₄ NW¹/₄; Sections 33–36.

T.34S., R.09W. Willamette Meridian: Sections 2–11; Sections 14–23; Sections 26– 35

T.34S., R.10W. Willamette Meridian: Sections 1–5; Section 6 except NW¹/₄, NW¹/₄ NE¹/₄; Sections 7–11; Sections 12–30; N¹/₂, NE¹/₄ SE¹/₄ Section 31; Sections 32–36.

T.34S., R.10 $\frac{1}{2}$ W. Willamette Meridian: S $\frac{1}{2}$ Section 7; Section 18–19; Section 30–31.

T.34S., R.11W. Willamette Meridian: $E^{1/2}$ SE^{1/4}, SE^{1/4} NE^{1/4} Section 11; Section 12 except $E^{1/2}$, $E^{1/2}$ SW^{1/4}, NW^{1/4} NW^{1/4}; Section 13 except NE^{1/4}, NE^{1/4} NW^{1/4}; $E^{1/2}$ $E^{1/2}$, SW^{1/4} SW^{1/4} Section 14; SE^{1/4} SE^{1/4} Section 15; $E^{1/2}$ SW^{1/4} Section 21; SE^{1/4}, $E^{1/2}$ NE^{1/4}, $S^{1/2}$ SW^{1/4}, NW^{1/4} Section 22; Section 23 except NE^{1/4} NW^{1/4}, NW^{1/4} NE^{1/4}; Sections 24–28; SE^{1/4} NE^{1/4}, NE^{1/4} SE^{1/4} Section 31; Section 32 except NW^{1/4} NW^{1/4}, NW^{1/4}; Sections 33–36.

T.35S., R.09W. Willamette Meridian: Sections 2–11; Sections 14–20; Section 21 except S½ SE¼, NE¼ SE¼, NE¼ NE¼; SW¼ SW¼ Section 27; W½ W½, S½ SE¼, SE¼ SW¼ Section 28; Sections 29–31; Section 32 except SE¼ SW¼, SW¼ SE¼; Section 33; Section 34 except $E^{1/2}$, $NE^{1/4}$ $NW^{1/4}$.

 $\begin{array}{c} T.35S., R.10W. \ Willamette \ Meridian: \\ Sections \ 1-5; \ E^{1/2} \ SE^{1/4} \ Section \ 6; \ NE^{1/4} \ NE^{1/4} \\ Section \ 7; \ N^{1/2} \ NW^{1/4}, \ SE^{1/4} \ SEction \ 8; \\ Section \ 9 \ except \ W^{1/2} \ NW^{1/4}, \ NW^{1/4} \ SW^{1/4}; \\ Sections \ 10-16; \ Section \ 17 \ except \ N^{1/2} \\ NW^{1/4}, \ SW^{1/4} \ NW^{1/4}; \ S^{1/2} \ SE^{1/4}, \ NE^{1/4} \ SE^{1/4}, \\ SE^{1/4} \ SW^{1/4} \ Section \ 18; \ Sections \ 19-36. \\ \end{array}$

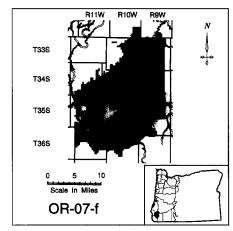
T.35S., R.10 1 /2W. Willamette Meridian: Section 6; Section 7 except E 1 /2 E 1 /2; Section 18 except S 1 /2 NE 1 /4, NE 1 /4 NE 1 /4, SE 1 /4; NW 1 /4, W 1 /2 SW 1 /4, NW 1 /4 NE 1 /4 Section 19; W 1 /2 W 1 /2 Section 30; Section 31 except N 1 /2 NE 1 /4, NE 1 /4 NW 1 /4.

T.35S., R.11W. Willamette Meridian: Sections 1–5; E½ E½ Section 6; E½ E½ Section 7; Sections 8–15; Section 17; E½ NE¼ Section 18; SE¼ SE¼ Section 19; Section 20; Section 21 except SW¼ NE¼, NW¼ SE¼, SE¼ NW¼, S½ SE¼, NW¼; Sections 22–28; NW¼, S½ SE¼, NW¼ SE¼, NE¼ SW¼ Section 29; E½ E½ Section 31; Section 32 except NW¼ NE¼, NE¼ NW¼: Sections 33–36.

T.36S., R.09W. Willamette Meridian: NW¹/4 NW¹/4 Section 3; N¹/2 N¹/2 Section 4; NW¹/4 NW¹/4 Section 5; Section 6 except S¹/2 SE¹/4, NE¹/4 SE¹/4; NW¹/4 NW¹/4 Section 7.

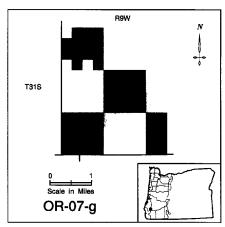
T.36S., R.10W. Willamette Meridian: Sections 1–11; Section 12 except S $^{1}/_{2}$ S $^{1}/_{2}$, NE $^{1}/_{4}$ SE $^{1}/_{4}$; N $^{1}/_{2}$ NW $^{1}/_{4}$ SW $^{1}/_{4}$ NW $^{1}/_{4}$ Section 14; N $^{1}/_{2}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$ Section 15; Section 16; Section 17 except S $^{1}/_{2}$ SW $^{1}/_{4}$; Section 18 except S $^{1}/_{2}$ SE $^{1}/_{4}$, SW $^{1}/_{4}$ SW $^{1}/_{4}$; N $^{1}/_{2}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$ Section 20; Section 21 except W $^{1}/_{2}$ SW $^{1}/_{4}$.

T.36S., R.11W. Willamette Meridian: Sections 1–3; Section 4 except NE½ SW½, SW½ NE½, SE½ NW½, NW¼ SE½; Sections 5–15; Sections 16 except S½ SW½; S½ S½ Section 17; Section 18; Section 19 except SE½, S½ SW¼, SE¼ NE½ SE½ SW¼, SE½ NE¼ Section 21; Section 22 except SW¼ SW¼; Section 23–24; N½ N½ Section 25; Section 26 except SE¼, S½ NE¼, SE¼ SE¼ SW¼; NE¼, E½ SE¼ NE¼, NE¼ NE¼ SW¼; Section 26 except SE¼, S½ NE¼, SE¼ SW¼; NE¼, E½ SE¼



Map and description of OR-07-g taken from United States Fish and Wildlife Service 1:100,000 map; Canyonville, Oregon; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas: T.31S., R.09W. Willamette Meridian: Section 19 except NW 1 4 NW 1 4; SW 1 4 SW 1 4, SW 1 4, Section 29; Section 31; W 1 2 Section 33.

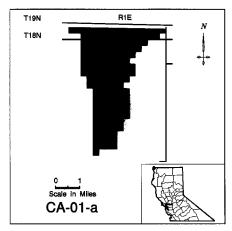


Map and description of CA-01-a taken from United States Fish and Wildlife Service 1:100;000 map; Grants Pass, Oregon; Crescent City and Happy Camp, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $\begin{array}{c} T.18N.,\ R.01E.\ Humboldt\ Meridian:\ NW^{1}_{4}\ NW^{1}_{4}\ Section\ 1;\ W^{1}_{2},\ NE^{1}_{4},\ NW^{1}_{4}\ SE^{1}_{4}\\ Section\ 2;\ Section\ 3;\ E^{1}_{2}\ Section\ 4;\ NE^{1}_{4},\\ E^{1}_{2}\ SE^{1}_{4}\ Section\ 9;\ Section\ 10;\ W^{1}_{2}\ NE^{1}_{4},\\ NW^{1}_{4},\ W^{1}_{2}\ SW^{1}_{4},\ NE^{1}_{4}\ SW^{1}_{4}\ Section\ 11;\\ W^{1}_{2}\ Section\ 14;\ Section\ 15;\ Section\ 22;\ W^{1}_{2}\ NW^{1}_{4},\ NE^{1}_{4}\ NW^{1}_{4},\ NW^{1}_{4}\ SW^{1}_{4}\ Section\ 23;\\ N^{1}_{2},\ NW^{1}_{4}\ SW^{1}_{4}\ SW^{1}_{4}\ Section\ 27.\\ \end{array}$

T.19N., R.01E. Humboldt Meridian: Section 33 except S½ SW¼; Section 34; Section 35; Section 36 except SE¼ SE¼.



Map and description of CA-01-b taken from United States Fish and Wildlife Service 1:100;000 map; Crescent City and Happy Camp, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas: T.17N., R.02E. Humboldt Meridian: $S^{1/2}$ SE^{1/4} Section 29; Section 31 except NW^{1/4}; SW^{1/4}, W^{1/2} NW^{1/4}, SE^{1/4} NW^{1/4}, SW^{1/4} NE^{1/4} Section 32.

T.17N., R.01E. Humboldt Meridian: $S^{1/2}$ SW1/4, W1/2 SE1/4 Section 35; SW1/4 SW1/4 Section 36.

T.16N., R.03E. Humboldt Meridian: S½ S½, SW¼ NW¼ Section 17; SE¼, E½ SW¼, S½ NE¼ Section 18; Section 19 except NW¼ NW¼, NW¼, SW¼; Section 20; SW¼, W½ NW¼, SW¼, SE¼ Section 21; W½ SW¼, NE¼ SW¼, NW¼ NW¼ Section 27; Sections 28–33; S½, S½ NW¼, SW¼ NE¼ SW¼ NE¼ Section 34.

T.16N., R.02E. Humboldt Meridian: $W^{1/2}$ Section 5; Section 6 except $SW^{1/4}$ $SW^{1/4}$; Section 7; Section 8 except $NE^{1/4}$ $NE^{1/4}$; $W^{1/2}$ $SW^{1/4}$, $SE^{1/4}$ $NW^{1/4}$ Section 9; $W^{1/2}$ $NW^{1/4}$, $SW^{1/4}$ $SW^{1/4}$ $SE^{1/4}$ Section 16; Section 17–21; Section 22 except $N^{1/2}$ $NE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$, $NE^{1/4}$, Section 25; Section 26 except $NE^{1/4}$, $NE^{1/4}$; Section 30; Section 32 except $W^{1/2}$ $SW^{1/4}$; Sections 33–36.

T. 16N., R.01E. Humboldt Meridian: Sections 1–2; SE¹/4, SE¹/4 NE¹/4 Section 3; NE¹/4, NE¹/4 NW¹/4 Section 10; N¹/2, E¹/2 SE¹/4 Section 11; Section 12; N¹/2 NE¹/4, NE¹/4 NW¹/4 Section 13; NE¹/4 Section 24.

T.15N., R.03E. Humboldt Meridian: Section 2 except N 1 /2 NE 1 /4, NE 1 /4 NW 1 /4; Section 3–6; N 1 /2 Section 7; S 1 /2 SE 1 /4, SE 1 /4 SE 1 /4 Section 8; Sections 9–10; W 1 /2, W 1 /2 NE 1 /4 Section 11; SW 1 /4 Set 1 /4 Section 13; Section 14 except NE 1 /4, NE 1 /4 Set 1 /4; Sections 15–17; Section 18 except NW 1 /4, SW 1 /4 NE 1 /4, NW 1 /4 Section 19; Section 20 except SW 1 /4; Sections 21–23; W 1 /2 NW 1 /4, NW 1 /4 Section 24; Section 27 except E 1 /2 E 1 /2, SW 1 /4 NE 1 /4, NW 1 /4 SE 1 /4, SW 1 /4; NW 1 /4, P 1 /2 NE 1 /4, NW 1 /4 SE 1 /4, Section 28; NE 1 /4, N 1 /2 SE 1 /4, NE 1 /4 SW 1 /4 Section 29.

T.15N., R.02E. Humboldt Meridian: Sections 1–3; N 1 /2 N 1 /2, SE 1 /4 NE 1 /4 Section 4; NE 1 /4 NE 1 /4 Section 5; Section 10 except SW 1 /4, W 1 /2 NW 1 /4; Section 11; Section 12 except SE 1 /4 SE 1 /4; Section 13 except E 1 /2 E 1 /2, SW 1 /4 SE 1 /4; Section 14; E 1 /2 NE 1 /4, NE 1 /4 SE 1 /4 Section 15; Section 23 except SE 1 /4, S 1 /2 NE 1 /4, NW 1 /4 NW 1 /4; S 1 /2 SW 1 /4, NE 1 /4 NE 1 /4 NE 1 /4, NE 1 /4 NE 1 /4, NW 1 /4 NW 1 /4; Section 26 except NE 1 /4, SW 1 /4, SW 1 /4 NE 1 /4, SW 1 /4 NE 1 /4, SW 1 /4 NE 1 /4 NE 1 /4, SW 1 /4 NE 1 /4 Section 27; E 1 /2 SE 1 /4, SW 1 /4 SE 1 /4, SW 1 /4 NE 1 /4 Section 28; Section 33–34; Section 35 except NE 1 /4, E 1 /2 SE 1 /4.

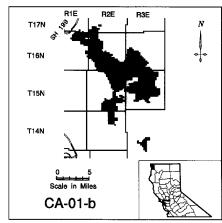
T.14N., R.02E. Humboldt Meridian: Section 3; Section 10; $NW^{1/4}$ Section 11; $NW^{1/4}$ $NW^{1/4}$ Section 14.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.14N., R.03E. Humboldt Meridian: $NW^{1/4}$ Section 27; $SE^{1/4}$, $S^{1/2}$ $SW^{1/4}$, $NE^{1/4}$ $SW^{1/4}$, $SE^{1/4}$ $SE^{1/4}$, $NE^{1/4}$ $NE^{1/4}$ Section 28; $E^{1/2}$ $SE^{1/4}$, $SE^{1/4}$ Section 29; $E^{1/2}$, $N^{1/2}$ $NW^{1/4}$, $SE^{1/4}$ $NW^{1/4}$ Section 33.

T.13N., R.03E. Humboldt Meridian: $NW^{1/4}$ $NW^{1/4}$ Section 3.



Map and description of CA-01-c taken from United States Fish and Wildlife Service 1:100;000 map; Happy Camp and Hoopa, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T. 11N., R.06E. Humboldt Meridian: $N^{1\!/_{\!2}}$ $NW^{1\!/_{\!4}}$, $SW^{1\!/_{\!4}}$, $NW^{1\!/_{\!4}}$, $NW^{1\!/_{\!4}}$, $NE^{1\!/_{\!4}}$ Section 30.

T. 11N., R.05E. Humboldt Meridian: N $^{1}\!\!/_{2}$ NW $^{1}\!\!/_{4}$, SE $^{1}\!\!/_{4}$ NW $^{1}\!\!/_{4}$, NE $^{1}\!\!/_{4}$ Section 36.

T. 10N., R.04E. Humboldt Meridian: NE¹/₄ NE¹/₄ Section 6.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T. 14N., R.05E. Humboldt Meridian: $S^{1/2}$ SW $^{1/4}$, NW $^{1/4}$ SW $^{1/4}$, SW $^{1/4}$, SE $^{1/4}$ Section 7; Section 18 except $E^{1/2}$ E $^{1/2}$, SW $^{1/4}$ NE $^{1/4}$, Section 31 except NE $^{1/4}$, E $^{1/2}$ NW $^{1/4}$, NE $^{1/4}$ SE $^{1/4}$.

T. 14N., R.04E. Humboldt Meridian: $SE^{1/4}$, $SE^{1/4}$ $SW^{1/4}$ Section 12; Section 13 except $W^{1/2}$ $NW^{1/4}$, Section 24; Section 25 except $SE^{1/4}$ $NE^{1/4}$; $NE^{1/4}$, $E^{1/2}$ $SE^{1/4}$ Section 26; $SE^{1/4}$, $E^{1/2}$ $NE^{1/4}$ Section 36.

T. 13N., R.05E. Humboldt Meridian: $S^{1/2}$ SW^{1/4}, NW^{1/4} SW^{1/4} Section 5; Sections 6–7; Section 8 except NE^{1/4}, W^{1/2} NW^{1/4}, NW^{1/4} SE^{1/4}; SW^{1/4} Section 10; W^{1/2}, SW^{1/4} SE^{1/4} Section 15; Sections 16–21; W^{1/2}, W^{1/2} NE^{1/4} Section 22; N^{1/2} N^{1/2} Section 28; Section 29 except SE^{1/4}; Sections 30–31, Section 32 except NE^{1/4}, E^{1/2} SE^{1/4}; SE^{1/4}, SE^{1/4} NE^{1/4}, SE^{1/4} SW^{1/4} Section 35; Section 36 except N^{1/2}, NE^{1/4} SE^{1/4}.

T. 13N., R.04E. Humboldt Meridian: Section 1; Section 2 except W $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$; S $^{1}/_{2}$ SE $^{1}/_{4}$ Section 3; SE $^{1}/_{4}$ SE $^{1}/_{4}$ Section 9; Sections 10–15; E $^{1}/_{2}$ E $^{1}/_{2}$ Section 16; SE $^{1}/_{4}$, SV $^{1}/_{4}$, NE $^{1}/_{4}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$ SW $^{1}/_{4}$ Section 21; Sections 22–28; Section 29 except N $^{1}/_{2}$ N $^{1}/_{2}$; Section 30 except N $^{1}/_{2}$ N $^{1}/_{2}$, SW $^{1}/_{4}$ NW $^{1}/_{4}$; Sections 31–36.

T. 13N., R.03E. Humboldt Meridian: SE¹/₄ SE¹/₄, SW¹/₄ SW¹/₄ Section 25; Section 35 except N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄, NW¹/₄ SW¹/₄; Section 36.

T. 12N., R.06E. Humboldt Meridian: $W^{1/2}$ W¹/₂ Section 6; Section 7 except $E^{1/2}$ $E^{1/2}$,

NW¹/₄ NE¹/₄, NE¹/₄ NW¹/₄; NW¹/₄, W¹/₂ NE¹/₄ Section 18.

T. 12N., R.05E. Humboldt Meridian: Section 1 except SE 1 /4 SW 1 /4; Section 2; S 1 /2, SE 1 /4 NE 1 /4 Section 3; Section 4 except N 1 /2 NE 1 /4; Sections 5–23; Section 24 except E 1 /2 E 1 /2; Sections 25–36.

T. 12N., R.04E. Humboldt Meridian: Sections 1–36.

T. 12N., R.03E. Humboldt Meridian: Sections 1–2; S¹/2, E¹/2 NE¹/4 Section 3; Section 10 except W¹/2 W¹/2, NE¹/4 NW¹/4; Sections 11–14, Section 15 except W¹/2 W¹/2; E¹/2 NE¹/4, N¹/2 SE¹/4 Section 22; Section 23; Section 24; Section 25 except N¹/2 SE¹/4, SW¹/4 NE¹/4; N¹/2 NE¹/4, SE¹/4 NE¹/4 Section 26.

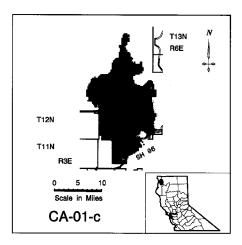
T. 11N., R.06E. Humboldt Meridian: SW¹/₄, W¹/₂ NW¹/₄, W¹/₂ SE¹/₄ Section 6; W¹/₂, NW¹/₄ NE¹/₄ Section 7; NW¹/₄ NW¹/₄, NW¹/₄ SW¹/₄ Section 18; W¹/₂ W¹/₂, SE¹/₄ SW¹/₄ Section 19; N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄, NW¹/₄ NE¹/₄ Section 30.

T. 11N., R.05E. Humboldt Meridian: Sections 1–20; Section 21 except NW 1 /4 SW 1 /4, SE 1 /4 SW 1 /4; Sections 22–24; Section 25 except SE 1 /4, SE 1 /4 NE 1 /4; Section 26 except SW 1 /4, SW 1 /4 SE 1 /4, SW 1 /4 NW 1 /4, NW 1 /4 NW 1 /4 NW 1 /4 NW 1 /4 Section 27; Sections 28–32; W 1 /2 W 1 /2, E 1 /2 SE 1 /4, SW 1 /4 Section 33, W 1 /2 SW 1 /4 Section 34.

T. 11N., R.04E. Humboldt Meridian: Sections 1–17, Section 18 except SW 1 /₄ NW 1 /₄, NW 1 /₄ SW 1 /₄; Section 19 except SW 1 /₄ NW 1 /₄; Sections 20–30; N 1 /₂ N 1 /₂, E 1 /₂ SE 1 /₄, SE 1 /₄ NE 1 /₄ Section 31; Sections 32–36.

T. 10N., R.05E. Humboldt Meridian: NW¹/₄, W¹/₂ SW¹/₄, SW¹/₄ NE¹/₄, NE¹/₄ SE¹/₄ Section 3, Sections 4–9, Section 10 except S¹/₂, E¹/₂ NE¹/₄, NW¹/₄ NE¹/₄; NW¹/₄ NW¹/₄ Section 11; NW¹/₄, N¹/₂ NE¹/₄, NW¹/₄ SW¹/₄ SE¹/₄ SE¹/₄; Section 17 except NW¹/₄ NW¹/₄, NE¹/₄ SE¹/₄; Section 18 except E¹/₂ NE¹/₄, NE¹/₄ SE¹/₄; Section 19 except S¹/₂ SE¹/₄, NE¹/₄ SE¹/₄, SE¹/₄; NE¹/₄; NW¹/₄ NW¹/₄, W¹/₂ SW¹/₄ Section 30.

T. 10N., R.04E. Humboldt Meridian: Sections 1–3; N 1 /2 N 1 /2 Section 4; N 1 /2 N 1 /2 Section 5; Sections 10–15; Sections 22–23; Section 24 except SE 1 /4 SW 1 /4; Sections 25 except N 1 /2 NE 1 /4, NE 1 /4 NW 1 /4; Sections 26–27.



Map and description of CA-01-d taken from United States Fish and Wildlife Service 1:100;000 map; Happy Camp California; 1995. Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.17N., R.03E. Humboldt Meridian: E½ E½, NW¼ NE¼ Section 24; E½ E½, V½ SE½, W½ SE¼, SE¼ SW¼ Section 25; N½ N½ Section 36.

T.16N., R.03E. Humboldt Meridian: S½ SW¼, SE¼, NE¼ SW¼ Section 1; NE¼ SE¼, SE¼ NE¼ Section 11; Section 12; Section 13 except W½ SW¼, SW¼ NW¼; E½ NE¼, NE¼ NW¼, SE¼ NE¼, NE¼ SE¼ Section 24; E½ SE¼, SW¼ SE¼ Section 25; Section 36 except W½ W½, E½ SW¼, W½ SE¼

T.15N., R.07E. Humboldt Meridian: $SW^{1/4}$ $NW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$ Section 7.

T.15N., R.06E. Humboldt Meridian: $NW^{1/4}$ Section 13.

T.15N., R.03E. Humboldt Meridian: $E^{1/2}$ $E^{1/2}$ Section 1; $E^{1/2}$ $E^{1/2}$, $SW^{1/4}$ $SE^{1/4}$ Section 12

T.14N., R.06E. Humboldt Meridian: Section 4 except $E^{1/2}$ $E^{1/2}$, $SW^{1/4}$ $SE^{1/4}$, $SE^{1/4}$ $SW^{1/4}$; $E^{1/2}$ Section 5; $E^{1/2}$ Section 8; Section 9 except $E^{1/2}$ $NE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$; Section 16 except $NE^{1/4}$ $SE^{1/4}$; $E^{1/2}$ Section 17; $NE^{1/4}$ Section 20; Section 21 except $SW^{1/4}$ $SW^{1/4}$; $SW^{1/4}$, $S^{1/2}$ $NW^{1/4}$ Section 22; $NE^{1/4}$ $NW^{1/4}$ Section 28.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.18N., R.04E. Humboldt Meridian: $SW^{1/4}$ SE $^{1/4}$ Section 33; $E^{1/2}$ SE $^{1/4}$ Section 35; $S^{1/2}$ SW $^{1/4}$, NW $^{1/4}$ SW $^{1/4}$ Section 36.

T.17N., R.06E. Humboldt Meridian: $S^{1/2}$ SW^{1/4}, NW^{1/4} SW^{1/4}, SW^{1/4}, SE^{1/4} Section 14; S^{1/2} SW^{1/4}, NE^{1/4} SE^{1/4} Section 15; S^{1/2} SE^{1/4}, NW^{1/4} SE^{1/4} Section 16; E^{1/2} Section 21; Section 22; Section 23 except NE^{1/4} NE^{1/4}; SW^{1/4} SeV^{1/4} Section 24; Section 26 except E^{1/2} SE^{1/4}, Section 27 except SW^{1/4}, W^{1/2} SE^{1/4}, SE^{1/4} NW^{1/4}; NE^{1/4} NE^{1/4} Section 28.

T.17N., R.05E. Humboldt Meridian: $SW^{1/4}$, $SW^{1/4}$ NW^{1/4} Section 4; Section 5 except $N^{1/2}$ N^{1/2}, $SW^{1/4}$ NW^{1/4}; Section 6 except NE^{1/4}, $E^{1/2}$ NW^{1/4}; Section 7–8; W^{1/2} NW^{1/4} Section 0

T.17N., R.04E. Humboldt Meridian: S1/2, S1/2 NW1/4, NE1/4 NW1/4 Section 1; Section 2 except NE1/4 NE1/4, SW1/4 SW1/4; Section 3 except E1/2 SE1/4, W1/2 NW1/4, NE1/4 NW1/4, NW¹/₄ NE¹/₄; S¹/₂, S¹/₂ NW¹/₄; NW¹/₄ NW¹/₄ Section 5; E½ SE¼ Section 6; Section 7 except NW1/4; Sections 8-9; Section 10 except S1/2 S1/2, NE1/4 SE1/4, NE1/4 NE1/4; NE1/4 $NE^{1/4}$ Section 11; Section 12 except $S^{1/2}$ SW1/4, SW1/4 SE1/4; Section 16 except E1/2 NE¹/₄, NE¹/₄ SE¹/₄; Sections 17–18; Section 19 except E1/2 E1/2; SE1/4, NE1/4 SW1/4 Section 20; S¹/₂ Section 21; SW¹/₄, S¹/₂ SE¹/₄ Section 22; Section 27 except SE1/4 SE1/4; Section 28 except SW1/4 SŴ1/4; E1/2 NE1/4, NW1/4 NE1/4, S¹/₂ SW¹/₄, NW¹/₄ SW¹/₄ Section 29; Section 30; Section 31 except $W^{1/2}$ SW $^{1/4}$; Section 32 except NE1/4 NE1/4; E1/2 NE1/4, NW1/4 NE1/4; S1/2 SW1/4, NW1/4 SW1/4, SW1/4 SE1/4 Section 33; NW1/4, W1/2 NE1/4, NE1/4 SW1/4, NW1/4 SE1/4 Section 34.

T.16N., R.04E. Humboldt Meridian: Section 2 except N¹/2, E¹/2 SE¹/4, W¹/2 SW¹/4; Section 3 except NE¹/4, E¹/2 SE¹/4, NE¹/4 NW¹/4; Sections 4-7; NW¹/4, W¹/2 SW¹/4, E¹/2 NE¹/4, NW¹/4 NE¹/4 Section 8; SW¹/4 SW¹/4 Section 9; Section 10 except S¹/2 SE¹/4, Section 11 except S¹/2 S¹/2; NW¹/4 NW¹/4 Section 15; N¹/2 NE¹/4, NE¹/4 NW¹/4 Section 16; NW¹/4 NW¹/4 Section 17; Sections 18-19; Section 30 except SE¹/4; SE¹/4; W¹/2, W¹/2 NE¹/4 Section 31.

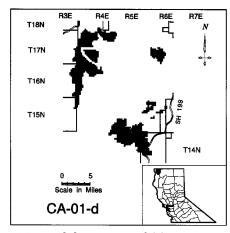
T.15N., R.06E. Humboldt Meridian: W $^{1}/_{2}$ SW $^{1}/_{4}$ Section 2; S $^{1}/_{2}$ Section 3; SE $^{1}/_{4}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$ Section 4; E $^{1}/_{2}$ SEE $^{1}/_{4}$ Section 9; Section 10 except E $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ NE $^{1}/_{4}$; N $^{1}/_{2}$ NW $^{1}/_{4}$ Section 11; NE $^{1}/_{4}$ SEE $^{1}/_{4}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$ Section 12; S $^{1}/_{2}$ NE $^{1}/_{4}$ Section 14; NW $^{1}/_{4}$ NW $^{1}/_{4}$ Section 15; Section 16 except S $^{1}/_{2}$, NW $^{1}/_{4}$ NW $^{1}/_{4}$; SV $^{1}/_{2}$ NE $^{1}/_{4}$ Section 22; W $^{1}/_{2}$ NW $^{1}/_{4}$ Section 23; NW $^{1}/_{4}$ Section 28; Section 29 except NW $^{1}/_{4}$, NE $^{1}/_{4}$, NE $^{1}/_{4}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$; SE $^{1}/_{4}$, SW $^{1}/_{4}$ Section 30; Section 31 except NW $^{1}/_{4}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$ SW $^{1}/_{4}$; Section 32; S $^{1}/_{2}$ Section 33.

T.15N., R.05E. Humboldt Meridian: SE $^{1/4}$ Section 22; Section 23 except N $^{1/2}$, NW $^{1/4}$ SE $^{1/4}$; W $^{1/2}$ SW $^{1/4}$ Section 24; W $^{1/2}$ NW $^{1/4}$, NW $^{1/4}$ Section 25; Section 26; Section 27 except N $^{1/2}$ NW $^{1/4}$; S $^{1/2}$ SE $^{1/4}$, NE $^{1/4}$ SE $^{1/2}$ Section 28; E $^{1/2}$, E $^{1/2}$ SW $^{1/4}$ Section 33; Sections 34–35; Section 36 except SE $^{1/4}$ NE $^{1/4}$

T.15N., R.04E. Humboldt Meridian: $W^{1/2}$ Section 6; $N^{1/2}$ NW^{1/4}, SW^{1/4} NW^{1/4}, NW^{1/4} SW^{1/4} Section 7.

 $T.14N.,\,R.06E.$ Humboldt Meridian: $W^{1}\!/_{2}$ Section 5; Section 6; Section 7; $W^{1}\!/_{2}$ Section 8; Section 17 except $W^{1}\!/_{2}$ SW $^{1}\!/_{4}$; $E^{1}\!/_{2}$ NE $^{1}\!/_{4}$ Section 18; N $^{1}\!/_{2}$ NW $^{1}\!/_{4}$, SE $^{1}\!/_{4}$ NW $^{1}\!/_{4}$ Section 20

 $\begin{array}{c} T.14N.,\,R.05E.\,\,Humboldt\,\,Meridian:\\ Sections\,\,1-2;\,Section\,\,3\,\,except\,\,SE^{1}\!/_4,\,S^{1}\!/_2\\ NW^{1}\!/_4;\,NW^{1}\!/_4,\,N^{1}\!/_2\,\,NE^{1}\!/_4\,\,Section\,\,4;\,NE^{1}\!/_4,\\ N^{1}\!/_2\,\,SE^{1}\!/_4,\,N^{1}\!/_2\,\,NW^{1}\!/_4\,\,Section\,\,10;\,Section\,\,11\\ except\,\,SW^{1}\!/_4\,\,SW^{1}\!/_4;\,Section\,\,12;\,N^{1}\!/_2\,\,N^{1}\!/_2\\ Section\,\,13;\,\,E^{1}\!/_2\,\,NE^{1}\!/_4\,\,Section\,\,14. \end{array}$



Map and description of CA-01-e taken from United States Fish and Wildlife Service 1:100;000 map; Grants Pass, Oregon; Happy Camp, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas: T.41S., R.07W. Willamette Meridian: S½ SW¼, NW¼ SW¼ Section 6; N½ NW¼, SW¼ NW¼ Section 7; SE¼, SE¼ NE¼ Section 8; S½ SE¼, SW¼, S½ NW¼ Section 9; NW¼ NE¼, E½ E½ Section 17.

T.41S., R.08W. Willamette Meridian: Section 1 except N $^{1}/_{2}$ N $^{1}/_{2}$, S $^{1}/_{2}$ SW $^{1}/_{4}$, NE $^{1}/_{4}$ SW $^{1}/_{4}$; Section 2 except N $^{1}/_{2}$ N $^{1}/_{2}$; W $^{1}/_{2}$ SW $^{1}/_{4}$, SW $^{1}/_{4}$ NW $^{1}/_{4}$ Section 3; Section 4 except N $^{1}/_{2}$ N $^{1}/_{2}$ NV $^{1}/_{2}$ SW $^{1}/_{4}$, SW $^{1}/_{4}$ NW $^{1}/_{4}$; Section 7 except N $^{1}/_{2}$ NE $^{1}/_{4}$, NE $^{1}/_{4}$ NWV $^{1}/_{4}$; W $^{1}/_{2}$ SW $^{1}/_{4}$, SWV $^{1}/_{4}$ NSWV $^{1}/_{4}$ Section 8; Section 9 except W $^{1}/_{2}$ WV $^{1}/_{2}$; WV $^{1}/_{2}$ NVV $^{1}/_{4}$, EV $^{1}/_{2}$ Section 10; Section 11 except SE $^{1}/_{4}$ NE $^{1}/_{4}$; Section 12–14; Section 15 except NV $^{1}/_{2}$ NWV $^{1}/_{4}$ NWV $^{1}/_{4}$ NEVV $^{1}/_{4}$; Section 16 except NWV $^{1}/_{4}$ NWVV $^{1}/_{4}$; Section 17 except NV $^{1}/_{2}$ NEVV $^{1}/_{4}$; Section 18.

T.41S., R.09W. Willamette Meridian: SE¹/₄ NE¹/₄ Section 12; NE¹/₄ NE¹/₄ Section 13.

T.19N., R.06E. Humboldt Meridian: SE¹/₄ SE¹/₄ Section 31; Section 32 except NW¹/₄ NW¹/₄; W¹/₂ Section 33.

 $T.19N.,\,R.05E.$ Humboldt Meridian: Section 32 except $W^{1/2}\,W^{1/2},\,S^{1/2}\,SW^{1/4};$ Sections 33–34; Section 35 except $S^{1/2}\,SW^{1/4},\,SW^{1/4}\,SE^{1/4};\,NW^{1/4}\,NW^{1/4}$ Section 36.

T.19N., R.04E. Humboldt Meridian: Section 32; W¹/₂ Section 33.

 $\begin{array}{c} T.18N.,\,R.05E.\,\,Humboldt\,\,Meridian:\\ Section\,\,5\,\,except\,\,NW^{1/4};\,SE^{1/4}\,\,Section\,\,6;\\ Section\,\,7\,\,except\,\,S^{1/2}\,\,S^{1/2},\,\,NW^{1/4}\,\,SW^{1/4};\\ Section\,\,16-17;\,SE^{1/4},\,E^{1/2}\,\,SW^{1/4},\,S^{1/2}\,\,NW^{1/4},\\ NW^{1/4}\,\,NW^{1/4},\,\,S^{1/2}\,\,NE^{1/4}\,\,Section\,\,18;\,N^{1/2}\\ Section\,\,19. \end{array}$

T.18N., R.04E. Humboldt Meridian: $W^{1/2}$ SW^{1/4} Section 2; Section 3 except $E^{1/2}$ NE^{1/4}, NW^{1/4} NW^{1/4}, W^{1/2} SE^{1/4}, SE^{1/4} SW^{1/4}; W^{1/2}, NW^{1/4} SE^{1/4}, SW^{1/4} NE^{1/4} Section 4; NE^{1/4} NW^{1/4} Section 9.

T.18N., R.03E. Humboldt Meridian: Section 1 except SW $^{1}/_{4}$ SW $^{1}/_{4}$; E $^{1}/_{2}$ SE $^{1}/_{4}$, SW $^{1}/_{4}$ SE $^{1}/_{4}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$, SW $^{1}/_{4}$ Section 2; Section 11 except SE $^{1}/_{4}$ SE $^{1}/_{4}$; NW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 12; W $^{1}/_{2}$ NW $^{1}/_{4}$ Section 14; Section 15 except W $^{1}/_{2}$, NW $^{1}/_{4}$ NE $^{1}/_{4}$, E $^{1}/_{2}$ SW $^{1}/_{4}$, SW $^{1}/_{4}$ SW $^{1}/_{4}$ NE $^{1}/_{4}$, NE $^{1}/_{4}$, SE $^{1}/_{4}$ Section 22; W $^{1}/_{2}$ Section 27; SE $^{1}/_{4}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$ Section 32; Section 33 except NW $^{1}/_{4}$ NW $^{1}/_{4}$; W $^{1}/_{2}$ Section 34.

T.17N., R.03E. Humboldt Meridian: $N^{1/2}$ NW^{1/4}, SW^{1/4} NW^{1/4}, NW^{1/4} SW^{1/4} Section 3; Section 4 except $S^{1/2}$ $S^{1/2}$.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

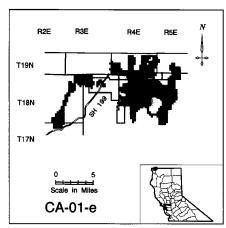
T.18N., R.06E. Humboldt Meridian: Section 5 except $E^{1/2}$ $E^{1/2}$; $E^{1/2}$; $E^{1/2}$, $S^{1/2}$ $SW^{1/4}$, $SW^{1/4}$ SE1/4 Section 6; Section 7; Section 8 except NE^{1/4} NE^{1/4}; Sections 17–19; NW^{1/4}, W^{1/2} $SW^{1/4}$, NW^{1/4} NE^{1/4} Section 20; NW^{1/4} NW^{1/4} Section 29; Section 30 except $E^{1/2}$ $SE^{1/4}$, $SE^{1/4}$ NE^{1/4}; Section 31 except $E^{1/2}$ $E^{1/2}$, SW^{1/4} $SE^{1/4}$.

T.18N., R.05E. Humboldt Meridian: Section 1 except $N^{1/2}$ $NE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$; Sections 2–4; Sections 8–12; Section 13 except $W^{1/2}$ $SW^{1/4}$; $SE^{1/4}$ $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$; Section 14 except $SE^{1/4}$; Section 15; Section 20 except $S^{1/2}$ $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$; Section 21; Section 22 except $SW^{1/4}$ $SE^{1/4}$; $NW^{1/4}$, $N^{1/2}$

SW¹/4, SW¹/4 SW¹/4 Section 23; SE¹/4 SE¹/4 Section 24; Section 25 except NW¹/4, NW¹/4 SW¹/4; W¹/2 NW¹/4, N¹/2 SW¹/4, SE¹/4 SW¹/4, S¹/2 SE¹/4 Section 26; Section 28 except SE¹/4, SE¹/4 NE¹/4; E¹/2 E¹/2 Section 29; E¹/2 NE¹/4 Section 32; Section 33 except E¹/2, SE¹/4 SW¹/4; NW¹/4 NE¹/4 Section 35; E¹/2, NE¹/4 NW¹/4 Section 36.

T.18N., R.04E. Humboldt Meridian: Section 5; N¹/2 NE¹/4, NE¹/4 NW¹/4 Section 8. T.17N., R.06E. Humboldt Meridian: N¹/2 NW¹/4 Section 6.

T.17N., R.05E. Humboldt Meridian: $N^{1/2}$ NE $^{1/4}$ Section 1.



Map and description of CA-02-a taken from United States Fish and Wildlife Service 1:100;000 map; Crescent City, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $\begin{array}{l} T.14N.,\ R.01E.\ Humboldt\ Meridian:\ SE^{1/4},\ S^{1/2}\ NE^{1/4},\ E^{1/2}\ SW^{1/4}\ Section\ 21;\ S^{1/2}\ SW^{1/4},\ NW^{1/4}\ SW^{1/4}\ Section\ 22;\ N^{1/2}\ NW^{1/4},\ SW^{1/4}\ NW^{1/4}\ Section\ 27;\ Section\ 28\ except\ SW^{1/4},\ NW^{1/4}\ NW^{1/4}\ NW^{1/4}\ S^{1/2}\ SE^{1/4}. \end{array}$

 $\begin{array}{c} T.17N.,\,R.01E.\,Humboldt\,Meridian:\,SW^{1\!/4}\\SW^{1\!/4}\,Section\,21;\,W^{1\!/2}\,NW^{1\!/4},\,NW^{1\!/4}\,SW^{1\!/4}\\Section\,28;\,E^{1\!/2}\,NE^{1\!/4},\,NE^{1\!/4}\,SE^{1\!/4}\,Section\,29. \end{array}$

Proposed Critical Habitat includes only State lands described within the following areas:

T.14N., R.01E. Humboldt Meridian: Section 6 except NE¹/4, E¹/2 SE¹/4, SW¹/4 SW¹/4; E¹/2 W¹/2, NW¹/4 NE¹/4, SW¹/4 SE¹/4 Section 7; NE¹/4 SE¹/4, NW¹/4 NE¹/4 Section 18.

 $\begin{array}{c} T.15N.,\ R.01E.\ Humboldt\ Meridian:\ W^{1/2}\\ SW^{1/4}\ Section\ 6;\ S^{1/2}\ Section\ 7;\ Section\ 8\\ except\ E^{1/2}\ E^{1/2},\ W^{1/2}\ NW^{1/4};\ N^{1/2},\ W^{1/2}\ SW^{1/4}\\ Section\ 17;\ Sections\ 18-19;\ W^{1/2}\ NW^{1/4}\\ Section\ 20;\ W^{1/2},\ N^{1/2}\ NE^{1/4}\ Section\ 30;\ W^{1/2}\\ Section\ 31. \end{array}$

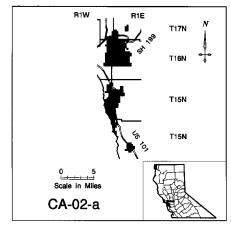
T.15N., R.01W. Humboldt Meridian: $E^{1/2}$ SE^{1/4}, SW^{1/4} SE^{1/4}, SE^{1/4} SW^{1/4} Section 1; Section 12 except W^{1/2} NW^{1/4}, NW^{1/4} SW^{1/4}; E^{1/2}, SE^{1/4} SW^{1/4} Section 13; Sections 24–25; E^{1/2}, N^{1/2} NW^{1/4} Section 36.

T.16N., R.01E. Humboldt Meridian: $W^{1/2}$ NW $^{1/4}$ Section 4; Section 5 except SE $^{1/4}$ SE $^{1/4}$; Sections 6–7; Section 8 except SE $^{1/4}$ NE $^{1/4}$, NE $^{1/4}$ SE $^{1/4}$; SW $^{1/4}$ NW $^{1/4}$, SY $^{1/2}$ SW $^{1/4}$ Section 9; W $^{1/2}$, E $^{1/2}$ NE $^{1/4}$ Section 16; Sections 17–20; W $^{1/2}$, W $^{1/2}$ SE $^{1/4}$ Section 21.

T.16N., R.01W. Humboldt Meridian: Section 1; SE¹/₄ SE¹/₄ Section 2; Sections 12– 13; E¹/₂ E¹/₂ Section 14; SE¹/₄, E¹/₂ NE¹/₄ Section 23; Section 24.

T.17N., R.01E. Humboldt Meridian: $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$ Section 30, Section 31 except $E^{1/2}$ $SE^{1/4}$, $NE^{1/4}$ $NE^{1/4}$.

T.17N., R.01W. Humboldt Meridian: $SE^{1/4}$ $SE^{1/4}$ Section 25; $S^{1/2}$, $E^{1/2}$ $NE^{1/4}$ Section 36.



Map and description of CA-02-b taken from United States Fish and Wildlife Service 1:100;000 map; Orick and Hoopa, California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

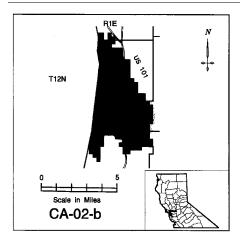
 $\label{eq:total_continuity} T.11N., R.01E. Humboldt Meridian: Section 1; Section 2; N$^{1}/2$ N$^{1}/2$ Section 3; Section 4 except E$^{1}/2$ SE$^{1}/4$, SE$^{1}/4$ NE$^{1}/4$; W$^{1}/2$ E$^{1}/2$, NW$^{1}/4$, NE$^{1}/4$ SW$^{1}/4$ Section 9; N$^{1}/2$ NE$^{1}/4$, SW$^{1}/4$ NE$^{1}/4$, E$^{1}/2$ NW$^{1}/4$ Section 11; N$^{1}/2$ NW$^{1}/4$ Section 12.$

T.11N., R.02E. Humboldt Meridian: $W^{1/2}$ SW $^{1/4}$ Section 6.

T.12N., R.01E. Humboldt Meridian: N $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$, SV $\frac{1}{4}$ Section 3; E $\frac{1}{2}$ W $\frac{1}{2}$, E $\frac{1}{2}$ Section 4; Section 9; Section 10; S $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ Section 11; W $\frac{1}{2}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 14; Section 15; Section 16; Section 21; Section 22; Section 23; SW $\frac{1}{4}$ Section 24; Section 25; Section 26; Section 27; Section 28; Section 33; Section 34; Section 35; Section 36.

T.12N., R.02E. Humboldt Meridian: $SW^{1/\!_4}$ $NW^{1/\!_4},$ $W^{1/\!_2}$ $SW^{1/\!_4}$ Section 30; $W^{1/\!_2}$ $NW^{1/\!_4}$ Section 31.

T.13N., R.01E. Humboldt Meridian: $SW^{1/4}$, $W^{1/2}$ $SE^{1/4}$ Section 33; $SW^{1/4}$ $SW^{1/4}$ Section 34.



Map and description of CA-02-c taken from United States Fish and Wildlife Service 1:100;000 map; Orick, California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

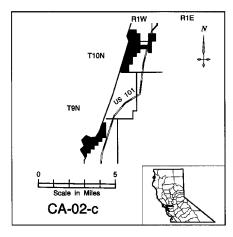
T.09N., R.01W. Humboldt Meridian: $W^{1/2}$ SW^{1/4}, SW^{1/4} NW^{1/4} Section 24 above Mean High Water (MHW); NW^{1/4} NW^{1/4} Section 25; Section 26 except S^{1/2} SE^{1/4}, NE^{1/4} SE^{1/4}; Section 27 to MHW; NE^{1/4} Section 34; NW^{1/4} NW^{1/4} Section 35.

T.10N., R.01E. Humboldt Meridian: Section 29 except S½ S½, NW¼ SE¼, NE¼ SW¼, NW¼ NE¼, NE¼ NW¼; Section 30 above MHW; W½, W½ NE¼ Section 31.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only State lands described within the following areas:

T.10N., R.01E. Humboldt Meridian: $E^{1/2}$ SE¹/₄, W¹/₂ SW¹/₄ Section 20; Section 19 above MHW.



Map and description of CA-03-a taken from United States Fish and Wildlife Service 1:100;000 map; Eureka and Hayfork, California; 1995.

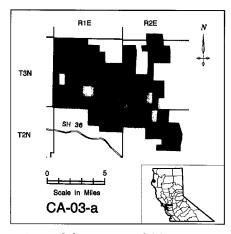
Proposed Critical Habitat includes only Private lands described within the following areas: T.02N., R.01E. Humboldt Meridian: Section 1–3; $N^{1/2}$ Section 10; Section 11–12.

T.02N., R.02E. Humboldt Meridian: Section 3; W½ Section 4; Section 5–6; $N\frac{1}{2}$ Section 7; $N\frac{1}{2}$ Section 8; Section 9–14; Section 15 except SW¼; $N\frac{1}{2}$ Section 16; $N\frac{1}{2}$ Section 22; $N\frac{1}{2}$ Section 23.

T.03N., R.01E. Humboldt Meridian: S½ Section 3; Section 4–10; W½ Section 11; Section 13–18; W½ Section 19; Section 20– 26; E½ Section 27; W½ Section 28; Section 29–35; Section 36 except NE¼.

T.03N., R.02E. Humboldt Meridian: Section 3 except NE 1 /4; Section 4; SE 1 /4 Section 5; S 1 /2 Section 6; Section 7; Section 9; Section 10; W 1 /2 Section 16; Section 18–20; Section 21 except NE 1 /4; SW 1 /4 Section 22; W 1 /2 Section 27; Section 28 except SW 1 /4; Section 29–30; Section 31 except SW 1 /4; Section 32; Section 33 except NW 1 /4.

T.04N., R.02E. Humboldt Meridian: $S^{1/2}$ Section 33; $SW^{1/4}$ Section 34.



Map and description of CA-04-a taken from United States Fish and Wildlife Service 1:100;000 map; Cape Mendocino and Garberville, California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

T.01N., R.01E. Humboldt Meridian: SE¹/₄ SW¹/₄, SE¹/₄ Section 24; SW¹/₄ NW¹/₄, N¹/₂ N¹/₂ Section 25; S¹/₂ NE¹/₄, NE¹/₄ NE¹/₄, SE¹/₄ NW¹/₄ Section 26.

T.01N., R.02E. Humboldt Meridian: E½ NE¼ Section 11; NW¼ Section 12; S½, S½, S½, SW¼, SE¼ NE¼ Section 19; W½ W½ Section 29; N½ NW¼, E½ SE¼, SE¼ NW¼, NE¼ Section 30; NW¼ NW¼, SE¼, E½ SW¼ Section 32.

T.01S., R.01E. Humboldt Meridian: SE¹/₄ NE¹/₄, E¹/₂ SE¹/₄ Section 15; SW¹/₄ NW¹/₄, SW¹/₄, W¹/₂ SE¹/₄, SE¹/₄ SE¹/₄ Section 14; S¹/₂ S¹/₂ Section 13; E¹/₂ E¹/₂, SW¹/₄ SE¹/₄, SE¹/₄ SW¹/₄ Section 22; Sections 23–27; Section 28 except N¹/₂, NW¹/₄, NW¹/₄, SW¹/₄, SW¹/₄ SE¹/₄; Sections 34–36.

T.01S., R.02E. Humboldt Meridian: Section 3; Section 4 except SW 1 /4 NW 1 /4; NE 1 /4 NE 1 /4 Section 9; N 1 /2 NW 1 /4, SE 1 /4 NW 1 /4, N 1 /2 NE 1 /4, SW 1 /4 NE 1 /4, NE 1 /4 Section 10; W 1 /2 NW 1 /4, SW 1 /4, E 1 /2 NW 1 /4 Section 14; SE 1 /4 Section 15; S 1 /2 NW 1 /4, SW 1 /4, SV 1 /4 Section 16; S 1 /2, SE 1 /4 NE 1 /4 Section 17; S 1 /2

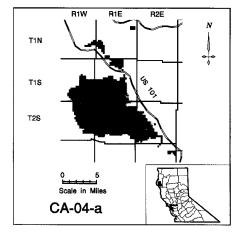
 $S^{1\!/2}$ Section 18; Sections 19–22; $W^{1\!/2}$ Section 23; $W^{1\!/2}$ Section 26; Sections 27–34; $W^{1\!/2}$ NW¹/4, N¹/2 SW¹/4, SW¹/4, SW¹/4, SW¹/4, SE¹/4, S¹/2 SE¹/4 NW¹/4 SE¹/4 Section 35.

T.02S., R.01E. Humboldt Meridian: Sections 1–2; Section 3 except $SE^{1/4}$ $SE^{1/4}$; $E^{1/2}$ $E^{1/2}$ Section 4; $E^{1/2}$ Section 9; Section 10–14; Section 15 except $W^{1/2}$, $SW^{1/4}$; $E^{1/2}$, $E^{1/2}$ $NW^{1/4}$, $NW^{1/4}$ $NW^{1/4}$ Section 22; Sections 23–25; Section 26 except $SW^{1/4}$ $NE^{1/4}$, $SW^{1/4}$, $S^{1/2}$ $NW^{1/4}$.

T.02S., R.02E. Humboldt Meridian: $S^{1/2}$ Section 1; Section 2 except $NE^{1/4}$, $NE^{1/4}$; Sections 3–24; Section 25 except $SW^{1/4}$ SW^{1/4}; N^{1/2} Section 26; Section 27 except $S^{1/2}$; Section 28 except $S^{1/2}$, $NW^{1/4}$ SW^{1/4}; Section 29 except $SE^{1/4}$; Section 30 except $E^{1/2}$, $SE^{1/4}$ SW^{1/4}, SW^{1/4} SE^{1/4}; $NE^{1/4}$ $NW^{1/4}$, $N^{1/2}$ $NE^{1/4}$ Section 36.

T.02S., R.03E. Humboldt Meridian: Section 7 except N¹/₂; NW¹/₄ SW¹/₄ Section 8; Section 17 except NE¹/₄, E¹/₂ SE¹/₄; Sections 18–20; Section 21 except E¹/₂ NW¹/₄, W¹/₂ NE¹/₄, NE¹/₄, SE¹/₄; S¹/₂ S¹/₂, NW¹/₄ SW¹/₄, SW¹/₄ NW¹/₄ Section 27; Section 28 except NE¹/₄ NE¹/₄; Section 29; Section 30; Section 31 except S¹/₂ S¹/₂, NW¹/₄ SE¹/₄; N¹/₂ Section 32 except SE¹/₄ NE¹/₄ NE¹/₄ NW¹/₄ Section 33; E¹/₂ E¹/₂ SE¹/₄ Section 34.

T.03S, R.03E. Humboldt Meridian: $SE^{1/4}$ $NW^{1/4}$, $NW^{1/4}$ $NE^{1/4}$ Section 3; $E^{1/2}$ $NE^{1/4}$ Section 11; $NE^{1/4}$, $NE^{1/4}$ $SE^{1/4}$, $N^{1/2}$ $NW^{1/4}$, $SW^{1/4}$ $NW^{1/4}$ Section 12.



Map and description of CA-04-b taken from United States Fish and Wildlife Service 1:100;000 map; Garberville, California; 1995.

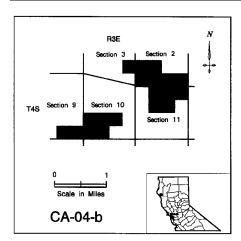
Proposed Critical Habitat includes only State lands described within the following areas:

T.04S., R.03E. Humboldt Meridian: $SW^{1/4}$, $S^{1/2}$ $SE^{1/4}$ Section 2; $S^{1/2}$ $SE^{1/4}$ Section 9; $SW^{1/4}$, $NW^{1/4}$ $SE^{1/4}$ Section 10; $E^{1/2}$ $NW^{1/4}$, $W^{1/2}$ $NE^{1/4}$, $NE^{1/4}$ NECTION 11.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only State lands described within the following areas:

T.04S., R.03E. Humboldt Meridian: NE $^1\!/_4$ SE $^1\!/_4$ Section 3.



Map and description of CA-05-a taken from United States Fish and Wildlife Service 1:100;000 map; Cape Mendocino, Garberville and Covelo, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.02S., R.02E. Humboldt Meridian: $SE^{1/4}$ SE^{1/4} Section 31; SW^{1/4} SE^{1/4} Section 32.

T.03S., R.02W. Humboldt Meridian: SE¹/₄ SE¹/₄ Section 12; Sections 13–14; Section 15 East of Mean High Water (MHW); Section 16 East of MHW except N¹/₂ N¹/₂; Section 22 East of MHW; Section 23 East of MHW; Section 24 except S¹/₂ SE¹/₄, NE¹/₄ SE¹/₄; NW¹/₄ NW¹/₄ Section 25; N¹/₂ NE¹/₄ Section 26 East of MHW.

T.03S., R.01W. Humboldt Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 9; $NE^{1/4}$ SE^{1/4} Section 10; $S^{1/2}$, $SE^{1/4}$ NE^{1/4} Section 11; $SW^{1/4}$ NW^{1/4}, $W^{1/2}$ $SW^{1/4}$, $SE^{1/4}$ SW^{1/4}, $S^{1/2}$ SE^{1/4} Section 12; Sections 13–16; Section 17 except $NW^{1/4}$ NE^{1/4}; Section 18; $N^{1/2}$ NW^{1/4}, $NE^{1/4}$ NE^{1/4}, $SW^{1/4}$ SW^{1/4}, $NE^{1/4}$ SW^{1/4} Section 19; $N^{1/2}$, $N^{1/2}$ SE^{1/4}, $SE^{1/4}$ Section 20; Sections 21–27; $NE^{1/4}$ NW^{1/4}, $NE^{1/4}$ Section 30, $SE^{1/4}$ NE^{1/4} Section 32; $N^{1/2}$ NW^{1/4}, $SE^{1/4}$ SW^{1/4}, $SE^{1/4}$ Section 33; Section 34 except $SE^{1/4}$ SE^{1/4}; $N^{1/2}$ N^{1/2}, $SW^{1/4}$ NW^{1/4} Section 35; Section 36 except $SW^{1/4}$ SW^{1/4}, $SW^{1/4}$, $SU^{1/4}$

T.03S., R.01E. Humboldt Meridian: SE¹/₄ SW¹/₄ Section 6; S¹/₂ NW¹/₄, NE¹/₄ NW¹/₄ Section 7; N¹/₂ S¹/₂, SE¹/₄ Section 12; E¹/₂ SE¹/₄, NW¹/₄ SE¹/₄, SE¹/₄ NE¹/₄ Section 13; SW¹/₄ Section 18; W¹/₂ SW¹/₄, NW¹/₄ NW¹/₄ Section 19; SE¹/₄ NE¹/₄, NE¹/₄ SE¹/₄ Section 24; W¹/₂ SW¹/₄ Section 29; Section 30 except NE¹/₄ NE¹/₄; Section 31; W¹/₂ W¹/₂, NE¹/₄ NW¹/₄, NE¹/₄ SW¹/₄ Section 32.

T.03S., R.02E. Humboldt Meridian: $W^{1}/2$ $W^{1}/2$, $NE^{1}/4$ $NW^{1}/4$, $SE^{1}/4$ $NE^{1}/4$, $SW^{1}/4$ $SE^{1}/4$ Section 5; $E^{1}/2$ $SE^{1}/4$, $SW^{1}/4$ $SE^{1}/4$ Section 6; Section 7 except $SW^{1}/4$ $NW^{1}/4$, $SE^{1}/4$ $SE^{1}/4$; $W^{1}/2$ $W^{1}/2$, $SE^{1}/4$ $NW^{1}/4$, $E^{1}/2$ $SW^{1}/4$, $W^{1}/2$ $NE^{1}/4$, $W^{1}/2$ $SE^{1}/4$ $SE^{1}/4$ Section 8; $S^{1}/2$ $SW^{1}/4$ Section 9; $E^{1}/2$ $SW^{1}/4$ Section 18; $NE^{1}/4$ $NW^{1}/4$, $SE^{1}/4$ Section 19; $SE^{1}/4$ $NE^{1}/4$ Section 20; $NW^{1}/4$ $NW^{1}/4$ Section 28; $NW^{1}/4$ $NE^{1}/4$ Section 30.

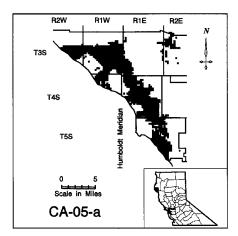
T.04S., R.01W. Humboldt Meridian: Section 3; Section 4 except NW¹/₄ NW¹/₄; Section 9 to MHW except for E¹/₂ E¹/₂; Section 10 to MHW except $N^{1/2}$ $NE^{1/4}$, $SW^{1/4}$ $NE^{1/4}$, $SW^{1/4}$ $SE^{1/4}$; $W^{1/2}$ $SW^{1/4}$ Section 11; $N^{1/2}$ $NW^{1/4}$ Section 14.

T.04S., R.01E. Humboldt Meridian: SW¹/₄. W¹/₂ SE¹/₄, SE¹/₄ SE¹/₄, S¹/₂ NE¹/₄ Section 4; Section 5; Section 6 except W1/2 W1/2; NE1/4, E¹/₂ NW¹/₄, N¹/₂ SE¹/₄ Section 7; Section 8; Section 9 except N1/2 NW1/4; S1/2, E1/2 NE1/4 Section 10: SW¹/₄. SW¹/₄ NW¹/₄ Section 11: Section 15; Sections 16–17; E¹/₂ E¹/₂, SW¹/₄ NW¹/₄, SW¹/₄ NE¹/₄ Section 18; E¹/₂ E¹/₂, NW1/4 NE1/4 Section 19; Section 20 except S¹/₂ SW¹/₄; Sections 21–23; S¹/₂ NW¹/₄, NW¹/₄ NW1/4, SW1/4, SW1/4 NE1/4, NW1/4 SE1/4 Section 24; W¹/₂ Section 25; Section 26; Section 27 except SW1/4 SW1/4; N1/2 NE1/4, NE1/4 NW1/4 Section 28; NE1/4 NW1/4, NE1/4 NE1/4 Section 29; NE1/4, E1/2 NW1/4, E1/2 SW1/4, N1/2 SE1/4, SW1/4 SE1/4 Section 33; Section 34 except S¹/₂ SW¹/₄; Section 35; W¹/₂ Section 36.

T.04S., R.02E. Humboldt Meridian: $S^{1/2}$ SW¹/₄, NE¹/₄ SW¹/₄, NW¹/₄ SE¹/₄ Section 31.

T.05S., R.01E. Humboldt Meridian: Section 1; Section 2 except N $^{1}/_{2}$ SW $^{1}/_{4}$; E $^{1}/_{2}$ NE $^{1}/_{4}$, SW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 3; W $^{1}/_{2}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$ Section 11; Section 12 except N $^{1}/_{2}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ SW $^{1}/_{4}$; Section 13 except W $^{1}/_{2}$ NE $^{1}/_{4}$, NE $^{1}/_{4}$ NE $^{1}/_{4}$, NE $^{1}/_{4}$ SE $^{1}/_{4}$; E $^{1}/_{2}$ Section 14; Section 23 East of MHW; Section 24; Section 25 East of MHW.

T.05S., R.02E. Humboldt Meridian: $W^{1/2}$ NW $^{1/4}$, NW $^{1/4}$ SW $^{1/4}$, E $^{1/2}$ SW $^{1/4}$, NW $^{1/4}$ SE $^{1/4}$ Section 6; SW $^{1/4}$, E $^{1/2}$ NW $^{1/4}$, SW $^{1/4}$ NW $^{1/4}$ Section 7; Section 18 except SW $^{1/4}$ NW $^{1/4}$, E $^{1/2}$ E $^{1/2}$, SW $^{1/4}$ SE $^{1/4}$ Section 19 except N $^{1/2}$ NE $^{1/4}$, SE $^{1/4}$ NE $^{1/4}$, SE $^{1/4}$ NW $^{1/4}$ Section 28; Section 30 except SE $^{1/4}$ SE $^{1/4}$; W $^{1/2}$ Section 31.



Map and description of CA-05-b taken from United States Fish and Wildlife Service 1:100;000 map; Covelo, California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

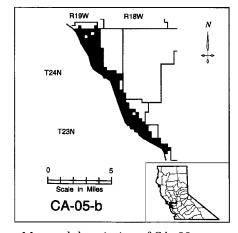
T.24N., R.19W. Mt. Diablo Meridian: $W^{1/2}$ SW $^{1/4}$ Section 2; Section 3 except NW $^{1/4}$, W $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ NE $^{1/4}$ SW $^{1/4}$ SE $^{1/4}$; NE $^{1/4}$ SW $^{1/4}$, SE $^{1/4}$ Section 4; NE $^{1/4}$ SE $^{1/4}$, SE $^{1/4}$ Section 9; Section 10 except NW $^{1/4}$ NE $^{1/4}$, W $^{1/2}$ W $^{1/2}$ Section 11; W $^{1/2}$ Section 14; Section 15 except W $^{1/2}$ SW $^{1/4}$; NE $^{1/4}$, N $^{1/2}$ SE $^{1/4}$ Section 22; Section 23 except NE $^{1/4}$, NE $^{1/4}$, NE $^{1/4}$ SE $^{1/4}$; SE $^{1/4}$; SW $^{1/4}$ Section

24; Section 25 except E½ SE½; NW¼, NE¼ NW¼ Section 26; Section 36 except NE¼ NE¼, W½ SW¼.

T.24N., R.18W. Mt. Diablo Meridian: $W^{1/2}$ SW $^{1/4}$ Section 31.

T.23N., R.19W. Mt. Diablo Meridian: $E^{1/2}$ E^{1/2} Section 1.

T.23N., R.18W. Mt. Diablo Meridian: SW¹/₄ SW¹/₄ Section 5; Section 6 except NE¹/₄ NW¹/₄, NE¹/₄, NE¹/₄ SE¹/₄; Section 7; Section 8 except NW¹/₄ NW¹/₄, NE¹/₄, NE¹/₄, SE¹/₄; W¹/₂ SW¹/₄ Section 15; Section 16 except E¹/₂ NW¹/₄, NE¹/₄, NW¹/₄, N¹/₂ SE¹/₄; NE¹/₄ Section 21; N¹/₂ NW¹/₄, SE¹/₄ NW¹/₄, W¹/₂ NE¹/₄, NE¹/₄ NE¹/₄ NE¹/₄, NW¹/₄ SE¹/₄ Section 22.



Map and description of CA-06-a taken from United States Fish and Wildlife Service 1:100;000 map; Garberville and Covelo, California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

T.05S., R.03E. Humboldt Meridian: Section 13 except NE $^{1}/_{4}$; Section 14 except N $^{1}/_{2}$ NE $^{1}/_{4}$; SE $^{1}/_{4}$ NE $^{1}/_{4}$, E $^{1}/_{2}$ SE $^{1}/_{4}$ Section 15; NW $^{1}/_{4}$ NE $^{1}/_{4}$ Section 24.

T.05S., R.04E. Humboldt Meridian: $W^{1/2}$ SW $^{1/4}$ Section 18.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.24N., R.15W. Mt. Diablo Meridian: SW¹/₄ Section 4; Section 5 except W¹/₂ SW¹/₄, SE¹/₄ SW¹/₄, NW¹/₄ NW¹/₄; S¹/₂ NE¹/₄ Section 6.

T.24N., R.16W. Mt. Diablo Meridian: $N^{1/2}$ NE^{1/4}, NE^{1/4} NW^{1/4} Section 3; NE^{1/4} NW^{1/4}, SW^{1/4} NW^{1/4}, S^{1/2} SE^{1/4}, Section 5; W^{1/2} NW^{1/4} Section 6; SE^{1/4} SW^{1/4}, W^{1/2} SE^{1/4}, SE^{1/4} Section 9; S^{1/2} SW^{1/4} Section 10.

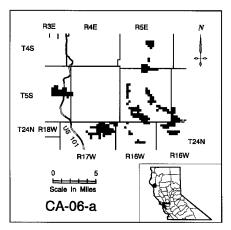
T.24N., R.17W. Mt. Diablo Meridian: Section 1 except NW $^{1}/_{4}$ NW $^{1}/_{4}$, SE $^{1}/_{4}$ SE $^{1}/_{4}$; Section 2 except SE $^{1}/_{4}$ SW $^{1}/_{4}$; S $^{1}/_{2}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$, S $^{1}/_{2}$ NV $^{1}/_{2}$, NE $^{1}/_{4}$ NE $^{1}/_{4}$ Section 3; SE $^{1}/_{4}$ SE $^{1}/_{4}$, NW $^{1}/_{4}$ SE $^{1}/_{4}$ Section 4; W $^{1}/_{2}$ NW $^{1}/_{4}$ Section 10; NW $^{1}/_{4}$ NE $^{1}/_{4}$, W $^{1}/_{2}$ NW $^{1}/_{4}$ Section 11.

T.05S., R.05E. Humboldt Meridian: $N^{1/2}$ NW $^{1/4}$ Section 2; N $^{1/2}$ N $^{1/2}$, SW $^{1/4}$ NW $^{1/4}$ Section 3; NE $^{1/4}$ Section 4; SE $^{1/4}$ Section 7; SW $^{1/4}$ SW $^{1/4}$ Section 8; SW $^{1/4}$ NW $^{1/4}$, SW $^{1/4}$, SW $^{1/4}$ Section 15; NW $^{1/4}$ SW $^{1/4}$ Section 17; E $^{1/2}$ E $^{1/2}$ Section 18; NE $^{1/4}$ NE $^{1/4}$, SE $^{1/4}$

SE¹/4 Section 19; SW¹/4 SW¹/4, NW¹/4 SW¹/4 Section 20; NE¹/4, NE¹/4 SW¹/4, N¹/2 SE¹/4, SW¹/4 SE¹/4 Section 22; NW¹/4 SW¹/4 Section 23, S¹/2 NW¹/4, N¹/2 SW¹/4, S¹/2 SE¹/4, NW¹/4 SE¹/4 Section 25; NE¹/4 NW¹/4, NE¹/4 SW¹/4, W¹/2 NE¹/4, SE¹/4 NE¹/4 Section 26; W¹/2 W¹/2, NE¹/4 SW¹/4 Section 28; S¹/2 N¹/2, E¹/2 SW¹/4, N¹/2 SE¹/4 Section 29; NE¹/4, NE¹/4 NW¹/4, SE¹/4 Section 32; NW¹/4 NE¹/4, NE¹/4, NW¹/4, NE¹/4 SW¹/4, SE¹/4 Section 33; SW¹/4 NW¹/4, NE¹/4 SW¹/4, SW¹/

T.05S., R.06E. Humboldt Meridian: $S^{1/2}$ NW $^{1/4}$, SW $^{1/4}$ Section 30; Section 31 except NE $^{1/4}$ NW $^{1/4}$, N $^{1/2}$ NE $^{1/4}$, SE $^{1/4}$ NE $^{1/4}$.

T.04S., R.05E. Humboldt Meridian: S½ SW½, SW¼, SE¼ Section 15; SE¼ SE¼ Section 16; NW¼, W½ NE¼, NE¼ SW¼ Section 22; SW¼ SW¼ Section 27; SE¼ Section 33; E½ NW¼, NW¼ NW¼, W½ SW¼, SE¼ SW¼ SE¼ SW¼ Section 34.



Map and description of CA-06-b taken from United States Fish and Wildlife Service 1:100;000 map; Covelo, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.21N., R.15W. Mt. Diablo Meridian: $W^{1/2}$ NW $^{1/4}$ Section 5; Sections 6–7; NW $^{1/4}$ NE $^{1/4}$, N $^{1/2}$ NW $^{1/4}$, SW $^{1/4}$ NW $^{1/4}$, N $^{1/2}$ SV $^{1/2}$, SW $^{1/4}$ Section 8; W $^{1/2}$ W $^{1/2}$, SE $^{1/4}$ SW $^{1/4}$, S $^{1/2}$ SE $^{1/4}$ Section 17; Section 18.

 $\label{eq:total_continuity} T.21N., R.16W. Mt. Diablo Meridian: Section 1; N¹/2 NE¹/4, NE¹/4 NW¹/4, SE¹/4 SE¹/4 Section 2; E¹/2 NE¹/4 Section 11; Section 12 except NW¹/4 SW¹/4 and S¹/2 SW¹/4; NE¹/4, NE¹/4 SE¹/4 Section 13.$

T.22N., R.14W. Mt. Diablo Meridian: NW $^{1}/_{4}$ SW $^{1}/_{4}$, S $^{1}/_{2}$ SW $^{1}/_{4}$ Section 6; Section 7; Section 18 except E $^{1}/_{2}$ SE $^{1}/_{4}$; N $^{1}/_{2}$ SE $^{1}/_{4}$, SE $^{1}/_{4}$ Section 19; N $^{1}/_{2}$ SW $^{1}/_{4}$, NW $^{1}/_{4}$ SE $^{1}/_{4}$ Setion 20; SW $^{1}/_{4}$ SW $^{1}/_{4}$, NE $^{1}/_{4}$ SEtion 21; NW $^{1}/_{4}$ NW $^{1}/_{4}$, S $^{1}/_{2}$ NW $^{1}/_{4}$ Section 22; E $^{1}/_{2}$ NE $^{1}/_{4}$, W $^{1}/_{2}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ SE $^{1}/_{4}$ Section 28; NE $^{1}/_{4}$, NE $^{1}/_{4}$ NW $^{1}/_{4}$, S $^{1}/_{2}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$, NW $^{1}/_{4}$ Section 29; S $^{1}/_{2}$ NE $^{1}/_{4}$, N $^{1}/_{2}$ NW $^{1}/_{4}$, SE $^{1}/_{4}$ Section 32.

 $\begin{array}{c} T.22N.,\ R.15W.\ Mt.\ Diablo\ Meridian:\ SW^{1}\!\!/_4\\ NE^{1}\!\!/_4,\ S^{1}\!\!/_2\ Section\ 1;\ N^{1}\!\!/_2,\ Section\ 12;\ E^{1}\!\!/_2\\ Section\ 13;\ NE^{1}\!\!/_4\ SW^{1}\!\!/_4,\ S^{1}\!\!/_2\ SW^{1}\!\!/_4,\ W^{1}\!\!/_2\ SE^{1}\!\!/_4\\ Section\ 19;\ SW^{1}\!\!/_4\ NE^{1}\!\!/_4\ Section\ 24;\ SW^{1}\!\!/_4\\ NE^{1}\!\!/_4,\ W^{1}\!\!/_2\ NW^{1}\!\!/_4,\ SW^{1}\!\!/_4,\ W^{1}\!\!/_2\ SE^{1}\!\!/_4\ Section\ 30;\ SW^{1}\!\!/_4\ NW^{1}\!\!/_4\ NW^{1}\!\!/_4\ NW^{1}\!\!/_4\ NW^{1}\!\!/_4\ NW^{1}\!\!/_4\ S^{1}\!\!/_2\\ Section\ 31. \end{array}$

T.22N., R.16W. Mt. Diablo Meridian: Section 3 except N¹/₂ NW¹/₄ and SE¹/₄ NW¹/₄; Section 4; Section 5 except $S^{1/2}$ $SE^{1/4}$, $NE^{1/4}$ SE1/4, SE1/4 NE1/4; E1/2, E1/2 W1/2, S1/2 SW1/4, SE1/4 NW1/4 Section 6; NE1/4 NE1/4, N1/2 NW¹/₄, SE¹/₄ SW¹/₄, SE¹/₄ Section 7; N¹/₂ $NE^{1/4}$, $E^{1/2}$ $W^{1/2}$, $S^{1/2}$ $SE^{1/4}$, $SW^{1/4}$ $SW^{1/4}$ Section 8; Section 9 except NW1/4; SW1/4 NE¹/₄, W¹/₂, NW¹/₄ SE¹/₄, S¹/₂ SE¹/₄ Section 10; NW¹/₄ NW¹/₄ Section 16; N¹/₂ NE¹/₄, W¹/₂ Section 17; Section 18 except NW1/4 NW1/4, SE1/4 SW1/4; S1/2 NE1/4, NE1/4 NE1/4 Section 19; NW1/4 SW1/4 Section 20; N1/2 NE1/4, SE1/4 SE1/4 Section 21; N1/2 NW1/4, S1/2 SW1/4, SW1/4 SE1/4 Section 22; SE1/4 SE1/4 Section 23; Section 26; Section 27 except NE¹/₄ NE¹/₄, W1/2 SW1/4, S1/2 SE1/4, SE1/4 SW1/4; SE1/4 Section 34; Section 35.

T.22N., R.17W. Mt. Diablo Meridian: NE¹/₄ NE¹/₄, SW¹/₄ NE¹/₄, SE¹/₄ NW¹/₄, NE¹/₄ SW¹/₄, W¹/₂ SE¹/₄ Section 12; S¹/₂ SE¹/₄ Section 13; NE¹/₄ Section 24.

T.23N., R.16W. Mt. Diablo Meridian: $E^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ Section 5; W $^{1/2}$ W $^{1/2}$ Section 6; E $^{1/2}$ W $^{1/2}$, E $^{1/2}$, W $^{1/2}$, SW $^{1/4}$ Section 7; SW $^{1/4}$ NW $^{1/4}$, SW $^{1/4}$ SW $^{1/4}$ Section 8; W $^{1/2}$ Section 17; Section 18 except NE $^{1/4}$ NE $^{1/4}$, W $^{1/2}$ SW $^{1/4}$, SE $^{1/4}$ SW $^{1/4}$; S $^{1/2}$ SE $^{1/4}$, SE $^{1/4}$ SW $^{1/4}$ Section 19; S $^{1/2}$ Section 20; NW $^{1/4}$ NW $^{1/4}$, S $^{1/2}$ NW $^{1/4}$, SW $^{1/4}$, SW $^{1/4}$ Section 29 except NE $^{1/4}$ NW $^{1/4}$; Section 30 except NE $^{1/4}$ NE $^{1/4}$; Section 32 except SE $^{1/4}$ NE $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$, E $^{1/2}$ SE $^{1/4}$; S $^{1/2}$ NE $^{1/4}$, NW $^{1/4}$ NE $^{1/4}$, NV $^{1/4}$ SE $^{1/4}$, S $^{1/2}$ Section 33; S $^{1/2}$ NW $^{1/4}$, N $^{1/2}$ SW $^{1/4}$ Section 34.

T.23N., R.17W. Mt. Diablo Meridian: Section 1 except $S^{1/2}$ $SW^{1/4}$; $NE^{1/4}$ $SE^{1/4}$ Section 2.

T.24N., R.16W. Mt. Diablo Meridian: SE $^{1/4}$ NE $^{1/4}$, SE $^{1/4}$ NW $^{1/4}$, NW $^{1/4}$, SW $^{1/4}$, SE $^{1/4}$ SW $^{1/4}$, NE $^{1/4}$ SE $^{1/4}$ Section 17; W $^{1/2}$ SE $^{1/4}$, SW $^{1/4}$ Section 18; Section 19 except SW $^{1/4}$ SE $^{1/4}$; W $^{1/2}$ NE $^{1/4}$, E $^{1/2}$ NW $^{1/4}$ Section 20; S $^{1/2}$ NW $^{1/4}$, SW $^{1/4}$ Section 27; Section 28 except N $^{1/2}$ NV $^{1/2}$ and SE $^{1/4}$ SW $^{1/4}$; Section 29 except N $^{1/2}$ NE $^{1/4}$, NW $^{1/4}$ NW $^{1/4}$; Section 30 except N $^{1/2}$ NE $^{1/4}$; Section 31; Section 32 except SE $^{1/4}$ NE $^{1/4}$ and E $^{1/2}$ SE $^{1/4}$; N $^{1/2}$ NE $^{1/4}$, NW $^{1/4}$ NW $^{1/4}$ Section 33; NW $^{1/4}$ Section 34.

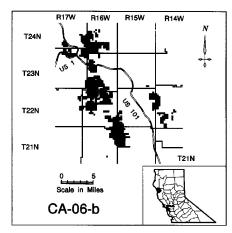
T.24N., R.17W. Mt. Diablo Meridian: NE¹/₄ NE¹/₄ Section 23; Section 24 except NE¹/₄ NW¹/₄, NW¹/₄ NE¹/₄; E¹/₂, E¹/₂ NW¹/₄, NW¹/₄ NW¹/₄ Section 25.

Proposed Critical Habitat includes only State lands described within the following areas:

T.21N., R.16W. Mt. Diablo Meridian: NE1/4 SW1/4 SE1/4 NW1/4 Section 26.

 $\begin{array}{c} T.23N., R.17W. \ Mt. \ Diablo \ Meridian: \ N^{1/2} \\ SW^{1/4} \ Section \ 2; \ Section \ 3 \ except \ NE^{1/4}, \\ SW^{1/4} \ NW^{1/4}, \ S^{1/2} \ SE^{1/4}, \ SE^{1/4} \ SW^{1/4}; \ E^{1/2} \\ NW^{1/4}, \ W^{1/2} \ NE^{1/4}, \ SE^{1/4} \ NE^{1/4}, \ N^{1/2} \ SW^{1/4}, \\ N^{1/2} \ SE^{1/4} \ Section \ 4. \end{array}$

T.24N., R.17W. Mt. Diablo Meridian: Section 28 except $E^{1/2}$ $NE^{1/4}$, $NE^{1/4}$ $NE^{1/4}$, $SW^{1/4}$ $SW^{1/4}$.



Map and description of CA-07-a taken from United States Fish and Wildlife Service 1:100;000 map; Ukiah, California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

T.17N., R.14W. Mt. Diablo Meridian: $W^{1/2}$ SW $^{1/4}$, NE $^{1/4}$ SW $^{1/4}$ Section 6; $W^{1/2}$ NW $^{1/4}$, NW $^{1/4}$ SW $^{1/4}$ Section 7.

T.17N., R.15W. Mt. Diablo Meridian: $W^{1}/_{2}$, $W^{1}/_{2}$ SE¹/₄ Section 2; Section 3–8; Section 9 except S¹/₂ SE¹/₄; Section 10 except S¹/₂ S¹/₂; Section 11; Section 12 except NE¹/₄ NE¹/₄, NE¹/₄ NE¹/₄ NE¹/₄ NE¹/₄ NE¹/₄ NE¹/₄ NE¹/₄ NE¹/₄ Ne¹/₄ Section 16; Section 17; Section 18 except SW¹/₄, SW¹/₄ NW¹/₄; NE¹/₄ NW¹/₄ Section 20.

T.17N., R.16W. Mt. Diablo Meridian: N $^{1}/_{2}$ N $^{1}/_{2}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$, NE $^{1}/_{4}$ SE $^{1}/_{4}$ Section 1; Section 3 except W $^{1}/_{2}$ W $^{1}/_{2}$; Section 4–6; NE $^{1}/_{4}$ Section 7; N $^{1}/_{2}$, N $^{1}/_{2}$ SE $^{1}/_{4}$, SE $^{1}/_{4}$ SE $^{1}/_{4}$ Section 9; Section 10 except E $^{1}/_{2}$ NE $^{1}/_{4}$, NE $^{1}/_{4}$ NU $^{1}/_{2}$ Section 19; W $^{1}/_{2}$ NW $^{1}/_{4}$ Section 30.

T.17N., R.17W. Mt. Diablo Meridian: Section 1-3; N1/2 NE1/4, SE1/4 NE1/4, SW1/4 NW1/4, S1/2 Section 4; NE1/4, N1/2 NW1/4, SE1/4 $NW^{1/4}$, $NE^{1/4}$ $SE^{1/4}$, $S^{1/2}$ $S^{1/2}$ Section 5; $N^{1/2}$ NE¹/₄ Section 6; Section 8 except W¹/₂ SW¹/₄, SE¹/₄ SW¹/₄, and SW¹/₄ SE¹/₄; Section 9–15; SE1/4 NE1/4, N1/2 NE1/4, NE1/4 NW1/4, S1/2 Section 16; S1/2 Section 17; SW1/4 SW1/4, E1/2 SW1/4, SE1/4 Section 18; SW1/4 NW1/4 Section 19; N1/2 NE1/4 Section 20; Section 21 except SE¹/₄ SW¹/₄; Section 22 except E¹/₂ SW¹/₄ and SW¹/₄ SE¹/₄; Section 23 except NW¹/₄ SW¹/₄; Section 24; NE¹/₄ NW¹/₄, NW¹/₄ SW¹/₄ Section 26; Section 27 except SW1/4 NW1/4, SE1/4 SE¹/₄, N¹/₂ NE¹/₄; NW

1/4 NE¹/₄, S¹/₂ NE¹/₄, NE1/4 NW1/4, NE1/4 SE1/4 Section 28.

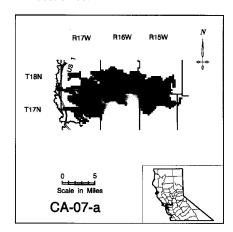
T.17N., R.18W. Mt. Diablo Meridian: $SE^{1/4}$ $SE^{1/4}$ Section 13.

T.18N., R.15W. Mt. Diablo Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 18; Section 19 except $NE^{1/4}$ $SE^{1/4}$; $SE^{1/4}$ $NE^{1/4}$, $NE^{1/4}$ $SW^{1/4}$, $S^{1/2}$ $SW^{1/4}$, $SE^{1/4}$ Section 20; Section 21 except $N^{1/2}$ $N^{1/2}$; $SW^{1/4}$ $NE^{1/4}$, $SE^{1/4}$ $SE^{1/4}$ Section 22; $SW^{1/4}$ $NE^{1/4}$, $S^{1/2}$ Section 23; $W^{1/2}$, $W^{1/2}$, $SE^{1/4}$ $SW^{1/4}$ Section 24; $W^{1/2}$ Section 25; Section 26 except $SE^{1/4}$ $NE^{1/4}$ and $E^{1/2}$ $SE^{1/4}$; Section 27; Section 28; Section 29; Section 30; Section 31; Section 32; Section 33; Section 34; Section 35 except $NE^{1/4}$ $NE^{1/4}$ and $NE^{1/4}$ $SE^{1/4}$.

T.18N., R.16W. Mt. Diablo Meridian: $S^{1/2}$ $S^{1/2}$ Section 13; $SE^{1/4}$ Section 14; $SW^{1/4}$ Section 15; $NW^{1/4}$ $NW^{1/4}$, $S^{1/2}$ $NW^{1/4}$, $S^{1/2}$ Section 16; $NE^{1/4}$, $SE^{1/4}$ $NW^{1/4}$, $S^{1/2}$ Section 17; $SE^{1/4}$ $SE^{1/4}$, $S^{1/2}$ $SW^{1/4}$ Section 18; Section 19–22; Section 23 except $N^{1/2}$ $NW^{1/4}$; Section 24–33; Section 34 except $E^{1/2}$ $SE^{1/4}$; Section 35 except $SW^{1/4}$ $SW^{1/4}$; Section 36.

T.18N., R.17W. Mt. Diablo Meridian: Section 20 except N¹/₂ N¹/₂ and SW¹/₄ SW¹/₄; Section 21 except NW¹/₄ NE¹/₄ and N¹/₂ NW¹/₄; NE¹/₄, NE¹/₄ SE¹/₄, SW¹/₄ SE¹/₄ Section 23; Section 24; Section 25 except S¹/₂ NW¹/₄, SE¹/₄; Section 26 except NW¹/₄ NW¹/₄; Section 27; NE¹/₄ NE¹/₄ Section 28; N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄ Section 29; NW¹/₄ SW¹/₄, NE¹/₄ SE¹/₄, S¹/₂ S¹/₂ Section 31; S¹/₂ NE¹/₄, S¹/₂ Section 32; S¹/₂ N¹/₂, N¹/₂ S¹/₂, SE¹/₄ SE¹/₄ Section 33; Section 34; Section 35; Section 36

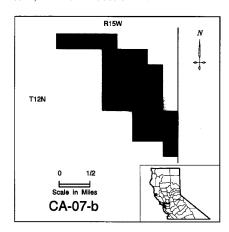
T.18N., R.18W. Mt. Diablo Meridian: SW $^{1}/_{4}$ SE $^{1}/_{4}$ Section 25; SE $^{1}/_{4}$, SE $^{1}/_{4}$ NW $^{1}/_{4}$, W $^{1}/_{2}$ NE $^{1}/_{4}$ Section 36.



Map and description of CA-07-b taken from United States Fish and Wildlife Service 1:100;000 map; Ukiah, California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

 $\begin{array}{l} T.14N.,\ R.15W.\ Mt.\ Diablo\ Meridian:\ S^{1\!/2}\\ S^{1\!/2}\ Section\ 11;\ Section\ 13\ except\ E^{1\!/2}\ E^{1\!/2},\\ NW^{1\!/4}\ NE^{1\!/4};\ E^{1\!/2}\ E^{1\!/2}\ Section\ 14;\ NE^{1\!/4},\ E^{1\!/2}\\ NW^{1\!/4},\ NE^{1\!/4}\ SE^{1\!/4}\ Section\ 24. \end{array}$

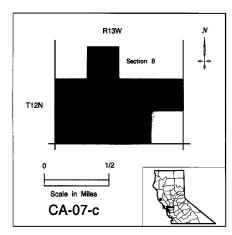


Map and description of CA-07-c taken from United States Fish and

Wildlife Service 1:100;000 map; Point Arena, California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

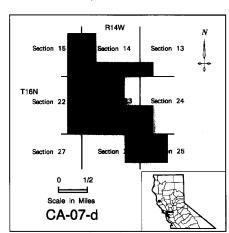
 $T.12N.,\ R.13W.\ Mt.\ Diablo\ Meridian:\ SE^{1/4}\ NW^{1/4},\ SW^{1/4},\ N^{1/2}\ SE^{1/4},\ SW^{1/4}\ SE^{1/4}\ Section\ 8.$



Map and description of CA-07-d taken from United States Fish and Wildlife Service 1:100;000 map; Ukiah, California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

T.16N.,~R.14W.~Mt.~Diablo~Meridian:~S1/2~S1/2~Section~14;~S1/4,~S1/2~NE1/4~Section~15;~E1/2~Section~22;~Section~23~except~NE1/4;~W1/2~NW1/4~Section~25;~NE1/4~Section~26.



Map and description of CA-08-a taken from United States Fish and Wildlife Service 1:100;000 map; Point Arena, California; 1995.

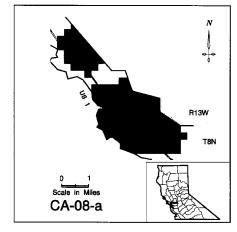
Description of lands using protracted Public Land Survey Lines

Proposed Critical Habitat includes only State lands described within the following areas:

T.08N., R.13W. Mt. Diablo Meridian: $SW^{1/4}$ NW $^{1/4}$ Section 2; Section 3; Section 4 east of Mean High Water (MHW); Section 5 east of MHW.

T.09N., R.13W. Mt. Diablo Meridian: $S^{1}/2$ NW¹/4, SW¹/4, SV¹/2 SE¹/4, NW¹/4 SE¹/4 Section 18; Section 19; SW¹/4, SW¹/4 NW¹/4 Section 20; SW¹/4, S¹/2 SE¹/4 Section 28; SE¹/4 NE¹/4, S¹/2 Section 29; E¹/2 Section 30 east of MHW; Section 32 east of MHW; Section 33; Section 34 except NE¹/4, NE¹/4 SE¹/4.

T.09N., R.14W. Mt. Diablo Meridian: SE¹/₄ Section 13; E¹/₂ Section 24 east of MHW.



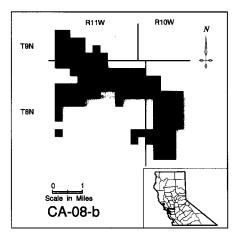
Map and description of CA-08-b taken from United States Fish and Wildlife Service 1:100;000 map; Point Arena and Healdsburg, California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

 $\begin{array}{c} T.08N.,\,R.10W.\,\,Mt.\,\,Diablo\,\,Meridian;\,S1{/}2\\ SW1{/}4\,\,Section\,5;\,Section\,6\,\,except\,\,E1{/}2\,\,NE1{/}4,\\ NW1{/}4\,\,NE1{/}4,\,NE1{/}4\,\,NW1{/}4,\,\,NE1{/}4\,\,SE1{/}4;\\ Section\,7\,\,except\,\,W1{/}2\,\,W1{/}2;\,W1{/}2\,\,Section\,\,8;\\ Section\,\,18\,\,except\,\,W1{/}2\,\,SW1{/}4. \end{array}$

T.08N., R.11W. Mt. Diablo Meridian: Sections 1–2; Section 3 except S½ NW¼, SW¼ NE¼; N½ NE¼, E½ NW¼, NE¼ SW¼ Section 10; N½ NE¼, SW¼ NE¼ Section 13; NW¼ NW¼ Section 15.

T.09N., R.11W. Mt. Diablo Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 27; $SE^{1/4}$ $SE^{1/4}$ Section 28; $E^{1/2}$ $E^{1/2}$ Section 33; Section 34; $SW^{1/4}$, $W^{1/2}$ $SE^{1/4}$, $SW^{1/4}$ $NE^{1/4}$, $SE^{1/4}$ $NW^{1/4}$ Section 35.

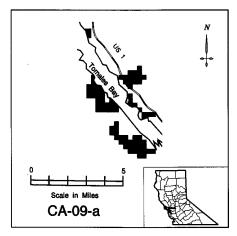


Map and description of CA-09-a taken from United States Fish and Wildlife Service 1:100;000 map; Napa, California; 1995. Description of lands using protracted Public Land Survey Lines

Proposed Critical Habitat includes only State lands described within the following areas:

T.03N., R.09W. Mt. Diablo Meridian: $NW^{1/4}$ $NW^{1/4}$, $W^{1/2}$ $SW^{1/4}$ Section 4; $SW^{1/4}$ $SW^{1/4}$ Section 5; Section 6 except $NE^{1/4}$ $NE^{1/4}$ and $S^{1/2}$ $SW^{1/4}$; $NE^{1/4}$ Section 7; $SW^{1/4}$ $NE^{1/4}$, $NW^{1/4}$ Section 8; $SW^{1/4}$ $NE^{1/4}$, $N^{1/2}$ $NW^{1/4}$, $E^{1/2}$ $SE^{1/4}$ Section 9; $N^{1/2}$ $SW^{1/4}$ Section 10; $SE^{1/4}$ $SW^{1/4}$, $SE^{1/4}$ Section 16; Section 17 except $E^{1/2}$ $NE^{1/4}$; $NE^{1/4}$ Section 20; Section 21 except $SW^{1/4}$ $SW^{1/4}$; $S^{1/2}$ $NW^{1/4}$, $N^{1/2}$ $SW^{1/4}$ Section 22.

T.04N., R.09W. Mt. Diablo Meridian: W¹/₂ SW¹/₄ Section 19; S¹/₂ NE¹/₄ SW¹/₄, SE¹/₄ SW¹/₄ Section 31; SE¹/₄ Section 32; SW¹/₄ NE¹/₄, SW¹/₄, SE¹/₄ Section 33.



Map and description of CA-09-b taken from United Statesish and Wildlife Service 1:100;000 map; Napa and San Francisco, California; 1995.

Description of lands using protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal Lands within the Golden Gate National Recreation Area described within the following areas:

T.01S., R.06W., Mt. Diablo Meridian: Sections 2–11; Sections 12–13 above Mean High Water (MHW); Sections 14–15; Sections 16–17 above MHW; Sections 21–24 above MHW.

T.01S., R.07W., Mt. Diablo Meridian: Sections 1–2 above MHW.

T.01N., R.06W., Mt. Diablo Meridian: Section 19; Sections 30–34.

T.01N., R.07W., Mt. Diablo Meridian: Sections 4–9; Section 11; Sections 16–17; Section 21 above MHW; Section 22; Section 35 above MHW; Section 36.

T.01N., R.08W., Mt. Diablo Meridian: Sections 1–2; Section 12 above MHW.

T.02N., R.07W., Mt. Diablo Meridian: Section 31.

T.02N., R.08W., Mt. Diablo Meridian: Sections 1–9; Sections 15–17; Sections 20– 23; Sections 25–27; Sections 34–36.

T.02N., R.09W., Mt. Diablo Meridian: Section 1.

T.03N., R.08W., Mt. Diablo Meridian: Sections 28–35.

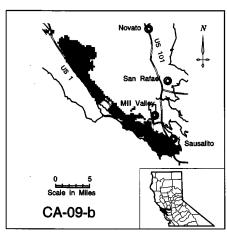
T.03N., R.09W., Mt. Diablo Meridian: Sections 23–25; Section 36.

Proposed Critical Habitat includes only State lands described within the following areas:

T.01N., R.06W. Mt. Diablo Meridian: Section 19; Sections 30–31.

T.01N., R.07W. Mt. Diablo Meridian: Sections 8–9; Sections 13–17; Sections 21– 26; Section 27 above MHW; Section 36.

T.02N., R.08W. Mt. Diablo Meridian: Sections 2–4; Sections 9–11; Sections 14–15.



Map and description of CA-10-a taken from United States Fish and Wildlife Service 1:100;000 map; Grants Pass, Oregon; Happy Camp, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.16N., R.08E. Humboldt Meridian: $SE^{1/4}$ $NE^{1/4}$, $SE^{1/4}$ Section 16.

 $\begin{array}{c} T.17N.,\ R.07E.\ Humboldt\ Meridian: \\ Section\ 1;\ Section\ 2\ except\ NW^{1/4}\ SW^{1/4},\ S^{1/2}\ SW^{1/4};\ NE^{1/4}\ NW^{1/2}\ NW^{1/4},\ SE^{1/4}\ NW^{1/4}\ Section \\ 3;\ NE^{1/4}\ NE^{1/4}\ Section\ 4;\ NE^{1/4}\ SW^{1/4},\ E^{1/2}\ Section\ 11;\ N^{1/2}\ NW^{1/4}\ NW^{1/4},\ NW^{1/4}\ Section\ 12;\ NW^{1/4}\ NW^{1/4},\ N^{1/2}\ NW^{1/4},\ W^{1/2}\ SW^{1/4}\ Section\ 13;\ NE^{1/4}\ NE^{1/4}\ SE^{1/4}\ Section\ 14. \end{array}$

T.17N., R.08E. Humboldt Meridian: $N^{1/2}$ NE $^{1/4}$ Section 4; Section 6 except $E^{1/2}$ $E^{1/2}$.

T.18N., R.07E. Humboldt Meridian: S¹/2 NE¹/4, NE¹/4 NE¹/4, S¹/2 SW¹/4, NE¹/4 SW¹/4, SE¹/4 Section 30; NE¹/4, N¹/2 NW¹/4, SE¹/4 NW¹/4 Section 31; SE¹/4 NE¹/4, N¹/2 NE¹/4, NW¹/4 Section 32; Section 36 except NE¹/4 NW¹/4, S¹/2 NW¹/4.

T.18N., R.08E. Humboldt Meridian: $N^{1/2}$, $S^{1/2}$ SW¹/₄, NE¹/₄ SE¹/₄ Section 31.

T.41S., R.06W. Willamette Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 3; Section 4 except $NE^{1/4}$, $N^{1/2}$ $NW^{1/4}$; $S^{1/2}$, $SE^{1/4}$ $NE^{1/4}$ Section 5; $S^{1/2}$ $SE^{1/4}$, $SE^{1/4}$ SWC Section 6; Sections 7–9; $NW^{1/4}$ SWC SWC $NW^{1/4}$ SWC Section 10; $SW^{1/4}$ SWC Section 15; $S^{1/2}$ $S^{1/2}$, $NW^{1/4}$ SECTION 16; Section 17–18.

 $\begin{array}{c} T.41S.,\ R.07W.\ Willamette\ Meridian: \\ Section\ 10\ except\ W^{1}\!\!/_{2}\ NW^{1}\!\!/_{4},\ NW^{1}\!\!/_{4}\ SW^{1}\!\!/_{4}, \\ N^{1}\!\!/_{2}\ NE^{1}\!\!/_{4}\ SE^{1}\!\!/_{4}\ NE^{1}\!\!/_{4};\ Section\ 11\ except\ NW^{1}\!\!/_{4},\ NW^{1}\!\!/_{4}\ NE^{1}\!\!/_{4};\ Section\ 12\ except\ N^{1}\!\!/_{2}\ NW^{1}\!\!/_{4},\ NW^{1}\!\!/_{4}\ NE^{1}\!\!/_{4};\ Sections\ 13-15. \end{array}$

T.46N., R.12W. Mt. Diablo Meridian: $NW^{1/4}$ $NW^{1/4}$ Section 2; Section 3 except $S^{1/2}$ $SE^{1/4}$; Sections 4–5; $SE^{1/4}$ $SE^{1/4}$ Section 6; $N^{1/2}$ $NE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$, $SE^{1/4}$ Sections 7–9; Section 10 except $NE^{1/4}$, $NE^{1/4}$ $NW^{1/4}$, $NE^{1/4}$ $SE^{1/4}$; $SW^{1/4}$ $NW^{1/4}$, $W^{1/2}$ $SW^{1/4}$ Section 14; Section 15–16; Section 17 except $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$, $E^{1/2}$ $NE^{1/4}$ Section 18; $NE^{1/4}$ $NE^{1/4}$ Section 20; Sections 21–22; $W^{1/2}$ $W^{1/2}$, $SE^{1/4}$ $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$ Section 23; Section 25 except $N^{1/2}$ $NW^{1/4}$; Section 32; Section 29; $E^{1/2}$ Section 31; Section 32 except $NE^{1/4}$ $NE^{1/4}$; Section 33 except $NW^{1/4}$ $NE^{1/4}$; Section 34–36.

 $T.46N.,\,R.11W.$ Mt. Diablo Meridian: $W^{1/\!_2}$ $W^{1/\!_2}$ Section 30; $W^{1/\!_2}$ $NW^{1/\!_4},\,NW^{1/\!_4}$ $SW^{1/\!_4}$ Section 31.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.15N., R.08E. Humboldt Meridian: Section 4 except SW $^{1}\!\!/_4$ NW $^{1}\!\!/_4$, NW $^{1}\!\!/_4$ SW $^{1}\!\!/_4$, and S $^{1}\!\!/_2$ SW $^{1}\!\!/_4$; N $^{1}\!\!/_2$ NE $^{1}\!\!/_4$, SE $^{1}\!\!/_4$ NE $^{1}\!\!/_4$ Section 9

 $T.16N.,~R.08E.~Humboldt~Meridian:~NE^1/4,~N^1/2~SE^1/4,~SE^1/4~SE^1/4~Section~21;~E^1/2~NE^1/4,~SE^1/4~SW^1/4,~SE^1/4~Section~28;~Section~33~except~NW^1/4~NW^1/4.$

T.18N., R.07E. Humboldt Meridian: Section 1–4; E½ NE½, SE¼ Section 5; E½ NE½ Section 8; Section 9–14; Section 15 except W½ SW¼; Section 16; SE¼ NE¼, E½ SE¼ Section 17; E½ E½, SE¼ SW¼, SW¼ SE¼ Section 20; Sections 21–29; N½, SE¼ Section 33; Section 34–35.

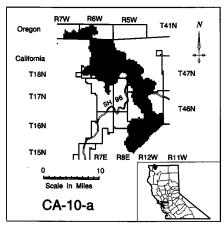
T.18N., R.08E. Humboldt Meridian: $W^{1/2}$ $W^{1/2}$, $SE^{1/4}$ $SW^{1/4}$ Section 6; Section 7 except $N^{1/2}$ $NE^{1/4}$; Section 8 except $N^{1/2}$ $N^{1/2}$, $SE^{1/4}$ $NW^{1/4}$, $S^{1/2}$ $NE^{1/4}$; $SW^{1/4}$ $SW^{1/4}$ Section 9; $W^{1/2}$, $S^{1/2}$ $SE^{1/4}$ Section 16; Section 17–21; Section 28; Section 29 except $SW^{1/4}$ $SE^{1/4}$; Section 30; $NW^{1/4}$ $NW^{1/4}$ Section 32; $N^{1/2}$ $NE^{1/4}$, $S^{1/2}$ $SE^{1/4}$ Section 33.

T.19N., R.07E. Humboldt Meridian: $N^{1}/_{2}$ N¹/₂ Section 31; SE¹/₄ NE¹/₄, E¹/₂ SE¹/₄ Section 32; Section 33–36.

 $\begin{array}{c} T.45N.,\ R.12W.\ Mt.\ Diablo\ Meridian:\ N^{1/2}\\ NW^{1/4},\ SW^{1/4}\ NW^{1/4}\ Section\ 1;\ Section\ 2-5;\\ Section\ 6\ except\ NW^{1/4}\ NW^{1/4};\ Section\ 7-10;\\ NW^{1/4}\ NE^{1/4},\ W^{1/2}\ SW^{1/4}\ NE^{1/4},\ NW^{1/4},\ N^{1/2}\\ SW^{1/4}\ Section\ 11;\ NW^{1/4}\ NE^{1/4},\ NW^{1/4},\ NW^{1/2}\\ SW^{1/4}\ Section\ 15-20;\ N^{1/2}\ NE^{1/4},\ SW^{1/4}\ NE^{1/4},\ NW^{1/4}\ Section\ 21;\ NW^{1/4}\ NW^{1/4}\ Section\ 28;\\ N^{1/2}\ NW^{1/4}\ SW^{1/4}\ SW^{1/4}\ SW^{1/4}\ SW^{1/4}\\ Section\ 29;\ Section\ 30;\ N^{1/2}\ NE^{1/4},\ SW^{1/4}\\ NE^{1/4},\ NW^{1/4},\ NW^{1/4}\ SE^{1/4}\ Section\ 31. \end{array}$

T.46N., R.12W. Mt. Diablo Meridian: Section 4–5;

T.47N., R.12W. Mt. Diablo Meridian: $SW^{1/4}$ $SW^{1/4}$ Section 5; $NE^{1/4}$ $SW^{1/4}$, $S^{1/2}$ $S^{1/2}$ Section 6; Section 7; Section 8 except $NE^{1/4}$; $SW^{1/4}$ $SW^{1/4}$ Section 9; Section 16 except $NW^{1/4}$ $NE^{1/4}$ and $E^{1/2}$ $E^{1/2}$; Section 17–20; $N^{1/2}$ $NW^{1/4}$, $NW^{1/4}$, $NW^{1/4}$, $SW^{1/4}$, $SY^{1/2}$ $SW^{1/4}$ Section 21; $NW^{1/4}$ $SW^{1/4}$, $SY^{1/2}$ $SW^{1/4}$ Section 26; Section 27 except $NE^{1/4}$ $NE^{1/4}$; Section 28 except $N^{1/2}$ $NE^{1/4}$; Section 29–30; $N^{1/2}$ $NE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$, Section 31; Section 32 except $SE^{1/4}$ $SW^{1/4}$, $SE^{1/4}$ $SE^{1/4}$; Section 33–34; Section 35 except $SE^{1/4}$ $NE^{1/4}$, $E^{1/2}$ $SE^{1/4}$, $SW^{1/4}$ $SE^{1/4}$, $SW^{1/4}$, $SW^{1/4}$



Map and description of CA–10–b taken from United States Fish and Wildlife Service 1:100;000 map; Happy Camp and Hoopa, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.11N., R.07E. Humboldt Meridian: Section 4 except NE¹/₄ NE¹/₄, N¹/₂ SE¹/₄, SE¹/₄ NE¹/₄; Section 5 except NE¹/₄ NE¹/₄; E¹/₂ SE¹/₄, SE¹/₄ NE¹/₄ Section 6; Section 8 except S¹/₂ S¹/₂, NW¹/₄ SW¹/₄, SW¹/₄ NW¹/₄; Section 9 except S¹/₂ S¹/₂; NW¹/₄ NW¹/₄, S¹/₂ NW¹/₄, NW¹/₄ SW¹/₄ Section 10.

T.12N., R.06E. Humboldt Meridian: NE¹/₄, N¹/₂ SE¹/₄, SE¹/₄ SE¹/₄ Section 2; NE¹/₄ NE¹/₄ Section 11; N¹/₂ Section 12; SE¹/₄, S¹/₂ NE¹/₄ Section 13; Section 23 except N¹/₂ N¹/₂, S¹/₂ NW¹/₄, NW¹/₄ SW¹/₄; Section 24 except N¹/₂ NW¹/₄; N¹/₂ Section 25; E¹/₂ NW¹/₄, N¹/₂ NE¹/₄, NW¹/₄ SE¹/₄ Section 26.

T.12N., R.07E. Humboldt Meridian:
Section 3 except S½ SE¼; Section 4–6;
Section 7 except S½ S½; Section 8 except
S½ SE¼, NE¼ SE¼, SE¼ NE¼; NW¼
Section 17; Section 18 except SE¼ SE¼; NW¼
NW¼, NW¼ NE¼; NW¼, NW¼ NE¼
Section 19; S½ SE¼ Section 33.

T.13N., R.06E. Humboldt Meridian: Section 1; Section 2; Section 3 except W $^{1}/_{2}$ SW $^{1}/_{4}$; Section 10 except W $^{1}/_{2}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$; Section 11; Section 12; Section 13; Section 14; Section 15; Section 16 except NW $^{1}/_{4}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$, SV $^{1}/_{2}$ SW $^{1}/_{4}$; Section 17; Section 21 except W $^{1}/_{2}$ W $^{1}/_{2}$, SE $^{1}/_{4}$ SW $^{1}/_{4}$, SW $^{1}/_{4}$, SE $^{1}/_{4}$; Section 22 except SW $^{1}/_{4}$ SW $^{1}/_{4}$; Section 23; Section 24; Section 25; Section 26; NE $^{1}/_{4}$ SE $^{1}/_{4}$ Section 34; N $^{1}/_{2}$, SE $^{1}/_{4}$, N $^{1}/_{2}$ SW $^{1}/_{4}$ Section 35; Section 36.

T.13N., R.07E. Humboldt Meridian: W $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$ Section 3; Section 4 except SE $^{1}/_{4}$ SE $^{1}/_{4}$; Section 5; Section 6; Section 7; Section 8; Section 9 except SE $^{1}/_{4}$ SW $^{1}/_{4}$, NE $^{1}/_{4}$ NE $^{1}/_{4}$, S $^{1}/_{2}$ SE $^{1}/_{4}$; N $^{1}/_{2}$ NW $^{1}/_{4}$ Section 16; N $^{1}/_{2}$ N $^{1}/_{2}$ Section 17; N $^{1}/_{2}$ N $^{1}/_{2}$ Section 18; Section 31 except N $^{1}/_{2}$; Section 32 except N $^{1}/_{2}$; SW $^{1}/_{4}$, W $^{1}/_{2}$ SE $^{1}/_{4}$ Section 33; SW $^{1}/_{4}$ SE $^{1}/_{4}$, Section 34.

 $\begin{array}{c} T.14N., R.06E. \ Humboldt \ Meridian: \ SE^{1/4} \\ SW^{1/4}, S^{1/2} \ SE^{1/4} \ Section \ 12; \ Section \ 13; \ E^{1/2} \\ E^{1/2} \ Section \ 14; \ NE^{1/4} \ NE^{1/4} \ Section \ 23; \\ Section \ 24 \ except \ W^{1/2} \ SW^{1/4}; \ E^{1/2}, \ E^{1/2} \ SW^{1/4} \\ Section \ 25; \ SE^{1/4} \ NE^{1/4}, \ NE^{1/4} \ SE^{1/4}, \ S^{1/2} \ SE^{1/4} \\ Section \ 35; \ Section \ 36 \ except \ N^{1/2} \ NW^{1/4}. \end{array}$

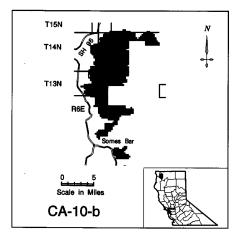
T.14N., R.07E. Humboldt Meridian: Section 1 except NE¹/₄, N¹/₂ SE¹/₄, SE¹/₄ SE¹/₄; Section 2–4; Section 5 except N $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ NE $^{1}/_{4}$; SE $^{1}/_{4}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$ SW $^{1}/_{4}$, NE $^{1}/_{4}$ SE $^{1}/_{4}$ Section 6; Section 7 except W $^{1}/_{2}$ NW $^{1}/_{4}$; Section 8; Section 9; Section 10; N $^{1}/_{2}$ NE $^{1}/_{4}$, W $^{1}/_{2}$ Section 11; N $^{1}/_{2}$ NV $^{1}/_{2}$ Section 12; NW $^{1}/_{4}$, SY $^{1}/_{2}$ SW $^{1}/_{4}$ Section 14; Section 15; Section 16; Section 17; Section 18; Section 19; Section 20; Section 21; Section 22; W $^{1}/_{2}$ Section 23; W $^{1}/_{2}$ Section 26; Section 27; Section 28; Section 29; Section 30; Section 31; Section 32; Section 32; Section 33; Section 34; NW $^{1}/_{4}$ NW $^{1}/_{4}$, SY $^{1}/_{2}$ NW $^{1}/_{4}$, SW $^{1}/_{4}$ Section 35.

T.14N., R.08E. Humboldt Meridian: $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$, $W^{1/2}$ $NW^{1/4}$, $SE^{1/4}$ $NW^{1/4}$ Section 4; Section 5; Section 6 except $NW^{1/4}$, $NW^{1/4}$ $NE^{1/4}$, $NW^{1/4}$ $SW^{1/4}$; $N^{1/2}$ $N^{1/2}$ Section 7; Section 8; Section 9 except $NE^{1/4}$ $NE^{1/4}$; $W^{1/2}$ $SW^{1/4}$ Section 10.

T.15N., R.07E. Humboldt Meridian: $SE^{1/4}$ SE^{1/4} Section 32; S^{1/2} S^{1/2} Section 33; SE^{1/4}, S^{1/2} SW^{1/4} Section 34; S^{1/2} SW^{1/4}, SW^{1/4} SE^{1/4} Section 35.

T.15N., R.08E. Humboldt Meridian: SE¹/₄ SE¹/₄ Section 31; SE¹/₄ SW¹/₄, SW¹/₄ SE¹/₄, Section 32.

 $T.44N.,\,R.12W.\,Mt.$ Diablo Meridian: $W^{1\!/_{\!2}}$ $SW^{1\!/_{\!4}}$ Section 31.



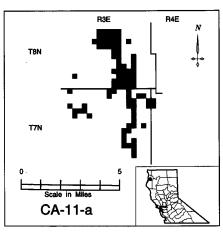
Map and description of CA-11-a taken from United States Fish and Wildlife Service 1:100;000 map; Hoopa and Hayfork, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $\begin{array}{c} T.07N.\ R.03E.,\ Humboldt\ Meridian:\ E^{1\!/2}\\ SE^{1\!/4},\ W^{1\!/2}\ SW^{1\!/4},\ SE^{1\!/4}\ NW^{1\!/4},\ SW^{1\!/4}\ NE^{1\!/4}\\ Section\ 1;\ E^{1\!/2}\ E^{1\!/2},\ NW^{1\!/4}\ NW^{1\!/4},\ Section\ 2;\\ E^{1\!/2}\ NE^{1\!/4}\ Section\ 3;\ SW^{1\!/4}\ SE^{1\!/4}\ Section\ 4;\\ SE^{1\!/4}\ SE^{1\!/4}\ SE^{1\!/4}\ NE^{1\!/4}\ Section\ 5;\ W^{1\!/2}\ NW^{1\!/4},\ NW^{1\!/4}\ NE^{1\!/4}\ SE^{1\!/4}\ Section\ 9;\ SE^{1\!/4}\ SE^{1\!/4}\ Section\ 11;\ W^{1\!/2}\ W^{1\!/2}\ SW^{1\!/4}\ Section\ 13;\ N^{1\!/2}\ NE^{1\!/4},\ SW^{1\!/4}\ NE^{1\!/4},\ NW^{1\!/4}\ SE^{1\!/4},\ S^{1\!/2}\ SE^{1\!/4}\ Section\ 14;\ W^{1\!/2}\ NW^{1\!/4}\ Section\ 24. \end{array}$

T.07N. R.04E., Humboldt Meridian: $W^{1/2}$ SW $^{1/4}$ Section 6.

T.08N. R.03E., Humboldt Meridian: SE 1 /₄, S 1 /₂ NE 1 /₄, SE 1 /₄ NW 1 /₄, SY 1 /₂ SW 1 /₄, NE 1 /₄ SW 1 /₄ Section 22; W 1 /₂ SW 1 /₄, SW 1 /₄ NW 1 /₄, SW 1 /₄ SE 1 /₄, SY 1 /₂ NW 1 /₄ Section 23; W 1 /₂ W 1 /₂, SE 1 /₄ SW 1 /₄ Section 26; NE 1 /₄, NV 1 /₄ Section 27; NW 1 /₄ Section 33; NE 1 /₄ NE 1 /₄, E 1 /₂ SE 1 /₄ Section 34; Section 35; W 1 /₂ SW 1 /₄ Section 36.



Map and description of CA-11-b taken from United States Fish and Wildlife Service 1:100;000 map; Hayfork, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.03N., R.02E. Humboldt Meridian: SE¹/₄ NE¹/₄, S¹/₂ NW¹/₄, N¹/₂ NV¹/₄, N¹/₂ Section 1; NE¹/₄, N¹/₂ NW¹/₄, SE¹/₄ NW¹/₄, N¹/₂ SE¹/₄ Section 2.

T.03N., R.03E. Humboldt Meridian: NW¹/₄ NW¹/₄ Section 5; N¹/₂ NE¹/₄, SE¹/₄ NW¹/₄, NE¹/₄ SW¹/₄, NW¹/₄ SE¹/₄, SW¹/₄ Section 6; SE¹/₄ Section 10; NE¹/₄ Section 15.

T.03N., R.04E. Humboldt Meridian: SW¹/₄ NE¹/₄, SW¹/₄ NW¹/₄, N¹/₂ N¹/₂ Section 1; Section 2 except SE¹/₄ SE¹/₄; E¹/₂ NE¹/₄, SE¹/₄ SW¹/₄, SE¹/₄ Section 3; W¹/₂ NE¹/₄, NW¹/₄ Section 5; E¹/₂ NE¹/₄ Section 6.

T.03N., R.05E. Humboldt Meridian: NE 1 /₄, N 1 /₂ SE 1 /₄ Section 6; SW 1 /₄ NW 1 /₄, N 1 /₂ SW 1 /₄, SW 1 /₄ Section 7; NW 1 /₄ NW 1 /₄ Section 18

T.04N., R.02E. Humboldt Meridian: $S^{1/2}$ SE $^{1/4}$ Section 25.

 $T.04N.,\,R.03E.$ Humboldt Meridian: $S^{1\!/2}$ $NW^{1\!/4},\,NW^{1\!/4}$ $SE^{1\!/4},\,SE^{1\!/4}$ $SE^{1\!/4}$ Section 31.

T.04N., R.04E. Humboldt Meridian: E¹/₂ NE¹/₄ Section 1; E¹/₂ E¹/₂ Section 12; S¹/₂ SE¹/₄ Section 21; S¹/₂ SW¹/₄ Section 22; N¹/₂ S¹/₂, SE¹/₄ SE¹/₄ Section 25; SE¹/₄ NW¹/₄, NE¹/₄ SW¹/₄, N¹/₂ SE¹/₄ SE¹/₄ Section 26; S¹/₂ NE¹/₄, NW¹/₄, N¹/₂ SE¹/₄ Section 27; N¹/₂, S¹/₂ S¹/₂, NE¹/₄ SW¹/₄ Section 28; SW¹/₄ NW¹/₄ Section 29; S¹/₂ NE¹/₄, SW¹/₄, SW¹/₄, SE¹/₄ NW¹/₄ Section 30; NE¹/₄, N¹/₂ NW¹/₄, SE¹/₄ NW¹/₄, NE¹/₄, NW¹/₄ SW¹/₄ Section 31; SW¹/₄ NE¹/₄, W¹/₂ SE¹/₄, S¹/₂ SW¹/₄, NW¹/₄ Section 32; N¹/₂ N¹/₂, SE¹/₄ NE¹/₄, SE¹/₄ NW¹/₄, SE¹/₄ Section 33; Section 34 except N¹/₂, NE¹/₄, S¹/₂ SW¹/₄; Section 35 except N¹/₂ N¹/₂, S¹/₂.

T.04N., R.05E. Humboldt Meridian:
Sections 1–12; Section 13 except S½ NE¼,
NE¼ SE¼; Section 14; Section 15 except
W½ NW¼ and SW¼; W½ NW¼, NW¼ SW¼ Section 17; N½, NE¼ SE¼ Section 18;
Section 19 except W½ W½; Section 20;
NW¼ NE⅓, SW¼ Section 21; N½ NE¼,
SE¼ NE¼ Section 22; Section 23; Section 24
except SE¼ SE¼; N⅓ NW¼ Section 25;
NW¼ NE⅙, NW¼ Section 26; NW¼ NW¼
Section 28; Section 29 except S½ NE⅙, N½
SE¼; Section 30; Section 31 except SW¼
SW¼; NW¼, W½ SW¼ Section 32.

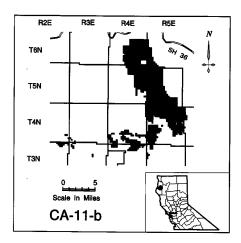
T.04N., R.06E. Humboldt Meridian: $N^{1/2}$ Section 6; $W^{1/2}$, $W^{1/2}$ E^{1/2} Section 7; $NW^{1/4}$ NW^{1/4} Section 19.

T.05N., R.04E. Humboldt Meridian: Section 1 except NE 1 /4 NE 1 /4; Section 2; Section 3; E 1 /2 NE 1 /4 Section 4; N 1 /2 Section 10; Sections 11–14; Section 23 except W 1 /2 SW 1 /4 and S 1 /2 SE 1 /4; Section 24; N 1 /2 NW 1 /4, S 1 /2 SE 1 /4 Section 25; E 1 /2 NW 1 /4, NE 1 /4 SW 1 /4 Section 26.

T.05N., R.05E. Humboldt Meridian: Section 4 except E½ E½; Sections 5–8; Section 9 except SW¼ NE¼ and E½ E½; Section 16 except E½ E½; Sections 17–21; W½ SW¼ Section 22; W½ SW¼ Section 25; S½ Section 26; Section 27 except E½ NE¼; Sections 28–35; W½ W½ Section 36.

T.06N., R.04E. Humboldt Meridian: Sections 13–15; Sections 21–27; Section 28 except SW^{1}_{4} NW^{1}_{4} ; Section 33 except W^{1}_{2} SW^{1}_{4} ; Sections 34–35.

T.06N., R.05E. Humboldt Meridian: $W^{1}/_{2}$, $W^{1}/_{2}$ SE $^{1}/_{4}$ Section 18; Section 19; SW $^{1}/_{4}$ NW $^{1}/_{4}$, $W^{1}/_{2}$ SW $^{1}/_{4}$ Section 29; Sections 30–31; Section 32 except N $^{1}/_{2}$ NE $^{1}/_{4}$, SE $^{1}/_{4}$ NE $^{1}/_{4}$; S $^{1}/_{2}$ Section 33.



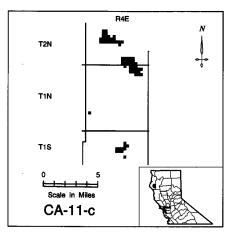
Map and description of CA-11-c taken from United States Fish and Wildlife Service 1:100;000 map; Garberville, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.02S., R.04E. Humboldt Meridian: $E^{1/2}$ NE $^{1/4}$, SW $^{1/4}$, N $^{1/2}$ SE $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$ Section 10; SW $^{1/4}$ NW $^{1/4}$ Section 11; SE $^{1/4}$ NE $^{1/4}$ Section 15.

T.01S., R.04E. Humboldt Meridian: SW¹/₄ NW¹/₄, SW¹/₄ SW¹/₄ Section 1; Section 2 except NE¹/₄ NE¹/₄ and S¹/₂ SW¹/₄; NW¹/₄ NE¹/₄ Section 3; SE¹/₄ NW¹/₄ Section 30.

 $\begin{array}{c} T.01N.,\,R.04E.\,\,Humboldt\,\,Meridian:\,S^{1/2}\\ SE^{1/4}\,\,Section\,\,17;\,E^{1/2},\,E^{1/2}\,\,SW^{1/4}\,\,Section\,\,20;\\ SW^{1/4}\,\,NE^{1/4},\,\,SW^{1/4}\,\,NW^{1/4},\,\,SW^{1/4},\,\,NW^{1/4}\,\,SE^{1/4},\\ S^{1/2}\,\,SE^{1/4}\,\,Section\,\,21;\,S^{1/2}\,\,SW^{1/4}\,\,Section\,\,22;\\ NW^{1/4}\,\,NW^{1/4}\,\,Section\,\,27;\,S^{1/2}\,\,NE^{1/4},\,\,SE^{1/4}\\ NW^{1/4},\,\,E^{1/2}\,\,SW^{1/4},\,\,SE^{1/4}\,\,Section\,\,34;\,\,S^{1/2}\\ NW^{1/4},\,\,SW^{1/4},\,\,SW^{1/4}\,\,SE^{1/4}\,\,Section\,\,35. \end{array}$



Map and description of CA-11-d taken from United States Fish and Wildlife Service 1:100;000 map; Hoopa and Hayfork, California; 1995.

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.07N., R.05E. Humboldt Meridian: NE¹/₄ NE¹/₄ Section 8; NE¹/₄, E¹/₂ SE¹/₄ Section 9; Section 24 except W¹/₂ W¹/₂; Section 25 except W¹/₂; SW¹/₄ NW¹/₄, W¹/₂ SW¹/₄ Section 34.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

 $\begin{array}{c} T.06N., R.06E. \ Humboldt \ Meridian: \ N^{1}\!\!/_{2} \\ NE^{1}\!\!/_{4}, \ W^{1}\!\!/_{2} \ Section \ 1; \ Section \ 2; \ Section \ 3; \\ NE^{1}\!\!/_{4}, \ NE^{1}\!\!/_{4} \ NW^{1}\!\!/_{4} \ Section \ 4; \ Section \ 11 \\ except \ W^{1}\!\!/_{2} \ NW^{1}\!\!/_{4}; \ W^{1}\!\!/_{2} \ NW^{1}\!\!/_{4} \ Section \ 12; \\ N^{1}\!\!/_{2} \ NE^{1}\!\!/_{4}, \ SW^{1}\!\!/_{4} \ NE^{1}\!\!/_{4}, \ E^{1}\!\!/_{2} \ NW^{1}\!\!/_{4}, \ E^{1}\!\!/_{2} \\ SW^{1}\!\!/_{4}, \ NW^{1}\!\!/_{4} \ SE^{1}\!\!/_{4} \ Section \ 14. \end{array}$

T.07N., R.05E. Humboldt Meridian: Section 1; Section 2; Section 3; NE 1 /₄, S 1 /₂ NW 1 /₄, S 1 /₂ NE 1 /₄ NW 1 /₄, NW 1 /₄ SW 1 /₄, SE 1 /₄ Section 4; E 1 /₂, S 1 /₂ NE 1 /₄ SW 1 /₄ Section 5; Section 10; Section 11; Section 12; Section 13 except W 1 /₂ SW 1 /₄; N 1 /₂ N 1 /₂ Section 14.

T.07N., R.06E. Humboldt Meridian: W¹/2 NW¹/4, NW¹/4 SW¹/4 Section 2; Section 3 except S¹/2 S¹/2; Section 4 except S¹/2 SE¹/4; Sections 5–8; NW¹/4 NW¹/4, S¹/2 Section 9; S¹/2 SW¹/4 Section 10; E¹/2 NE¹/4, SW¹/4 NE¹/4, SE¹/4 SW¹/4, SE¹/4 Section 12; Section 13 except E¹/2 SE¹/4; Section 14 except NW¹/4 NE¹/4 and N¹/2 NW¹/4; Section 15 except NE¹/4 NE¹/4; Sections 16–23; NW¹/4 NE¹/4, W¹/2 Section 24; N¹/2 NW¹/4, SW¹/4 NW¹/4; W¹/2 SE¹/4 NW¹/4, W¹/2 SE¹/4 NW¹/4, W¹/2 SE¹/4 NW¹/4, W¹/2 SE¹/4 NW¹/4, Section 31 except SW¹/4 SE¹/4; Sections 26–30; Section 31 except SW¹/4 SE¹/4; Sections 32–35; NW¹/4 NW¹/4 Section 36.

T.07N., R.07E. Humboldt Meridian: SW¹/₄ Section 6; NW¹/₄ NW¹/₄ Section 7.

T.08N., R.05E. Humboldt Meridian: E¹/₂ Section 1; E¹/₂ E¹/₂ Section 12; SE¹/₄ SE¹/₄ Section 33; SE¹/₄ NE¹/₄, S¹/₂ SW¹/₄, SE¹/₄ Section 34; S¹/₂ Section 35; Section 36 except N¹/₂ NW¹/₄, NW¹/₄ NE¹/₄.

T.08N., R.06E. Humboldt Meridian: $W^{1/2}$ $W^{1/2}$ Section 4; Sections 5–8; $W^{1/2}$ $W^{1/2}$

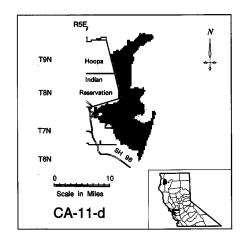
Section 9; S¹/₂ SW¹/₄, NE¹/₄ SW¹/₄ Section 14; SW¹/₄, S¹/₂ SE¹/₄ Section 15; NW¹/₄ NW¹/₄, S¹/₂ S¹/₂, NE¹/₄ SE¹/₄ Section 16; Sections 17–18; Section 19 except W¹/₂ W¹/₂; Sections 20–22; N¹/₂ NW¹/₄, SW¹/₄ NW¹/₄, NW¹/₄ NE¹/₄, N¹/₂ SW¹/₄, SW¹/₄ Section 23; NE¹/₄ NE¹/₄, W¹/₂, W¹/₂ E¹/₂ Section 27; Sections 28–29; Section 30 except NW¹/₄, NW¹/₄ SW¹/₄; Sections 31–33; Section 34 except E¹/₂ NE¹/₄; SW¹/₄, SW¹/₄ NW¹/₄ Section 35.

T.09N., R.05E. Humboldt Meridian: $S^{1/2}$ SE^{1/4} Section 12; Section 13; SE^{1/4} Section 14; E^{1/2} E^{1/2} Section 23; Section 24; Section 25; Section 36 except W^{1/2} W^{1/2}.

T.09N., R.06E. Humboldt Meridian: $NW^{1/4}$ $NE^{1/4}$, $N^{1/2}$ $NW^{1/4}$ Section 1; $N^{1/2}$, $SW^{1/4}$, $NW^{1/4}$ SE^{1/4} Section 2; Section 3; Section 4 except $N^{1/2}$ $NW^{1/4}$, $NW^{1/4}$ $NE^{1/4}$; Section 5 except $W^{1/2}$; $SE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$, $SE^{1/4}$ $SW^{1/4}$, $SE^{1/4}$ Section 7; Sections 8–9; $NW^{1/4}$, $SW^{1/4}$ $SW^{1/4}$, $NW^{1/4}$ $NE^{1/4}$, $N^{1/2}$ $SW^{1/4}$ Section 10; Section 16 except $SE^{1/4}$, $SE^{1/4}$ $NE^{1/4}$; Sections 17–20; $NW^{1/4}$ $SE^{1/4}$, $W^{1/2}$ $SE^{1/4}$, $W^{1/2}$ Section 21; $NE^{1/4}$ $NW^{1/4}$, $W^{1/2}$ $W^{1/2}$ Section 33.

T.10N., R.06E. Humboldt Meridian: $SE^{1/4}$ SW¹/₄, SW¹/₄ SE¹/₄ Section 26; SE¹/₄ SE¹/₄ Section 27; E¹/₂ NE¹/₄, SW¹/₄ NE¹/₄, SE¹/₄, E¹/₂ SW¹/₄, SW¹/₄ SW¹/₄ Section 34; Sections 35–36

T.10N., R.07E. Humboldt Meridian: $SW^{1/4}$ $NW^{1/4}$, $NW^{1/4}$ $SW^{1/4}$ Section 31.

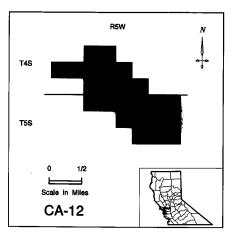


Map and description of CA-12 taken from United States Fish and Wildlife Service 1:100;000 map; California; 1995.

Proposed Critical Habitat includes only City lands described within the following areas:

T.04S., R.05W. Mount Diablo Meridian: $N^{1/2} SE^{1/4} Section 32$; $SW^{1/4}$, $S^{1/2} NW^{1/4}$, $S^{1/2} SE^{1/4}$, $NW^{1/4} SE^{1/4} Section 33$.

T.05S., R.05W. Mount Diablo Meridian: NW 1 /4, N 1 /2 SW 1 /4 Section 3; NE 1 /4, N 1 /2 NW 1 /4, NE 1 /4 Section 4.



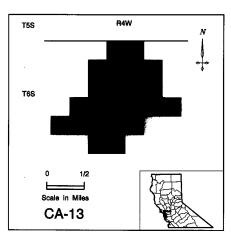
Map and description of CA-13 taken from United States Fish and Wildlife Service 1:100;000 map; California; 1995.

Description of lands using protracted Public Land Survey Lines

Proposed Critical Habitat includes only County lands described within the following areas:

Lands within Spanish Land Grant: Grant Number 168–Canada de Raymundo.

T.06S., R.04W. Mount Diablo Meridian: SW¹/₄, S¹/₂ NW¹/₄, NW¹/₄ NW¹/₄, SW¹/₄ SE¹/₄ Section 3; SE¹/₄, S¹/₂ NE¹/₄, NE¹/₄ NE¹/₄, SE¹/₄ SW¹/₄ Section 4; NE¹/₄, N¹/₂ NW¹/₄ Section 9; NW¹/₄ NW¹/₄ Section 10.



Map and description of CA-14-a taken from United States Fish and Wildlife Service 1:100;000 map; California; 1995.

Proposed Critical Habitat includes only City lands described within the following areas:

T.07S., R.04W. Mount Diablo Meridian: $N^{1/2}$ NE $^{1/4}$ Section 35.

Proposed Critical Habitat includes only County lands described within the following areas:

T.07S., R.03W. Mount Diablo Meridian: $S^{1/2}$, $S^{1/2}$ NE $^{1/4}$ Section 31.

T.07S., R.04W. Mount Diablo Meridian: N 1 /₂ SE 1 /₄, S 1 /₂ NE 1 /₄, SE 1 /₄, NW 1 /₄ Section 22; S 1 /₂ SW 1 /₄, NW 1 /₄ Section 23; SW 1 /₄ Section 25; Section 26 except SW 1 /₄, E 1 /₂ NE 1 /₄, NE 1 /₄ SE 1 /₄, NW 1 /₄; SE 1 /₄, NE 1 /₄

 $SW^{1/\!\!/4} \ Section \ 33; \ W^{1/\!\!/2} \ SW^{1/\!\!/4} \ Section \ 34; \\ Section \ 35 \ except \ N^{1/\!\!/2} \ NE^{1/\!\!/4}, \ NW^{1/\!\!/4} \ NW^{1/\!\!/4}; \\ Section \ 36 \ except \ E^{1/\!\!/2} \ NE^{1/\!\!/4}, \ NW^{1/\!\!/4} \ NE^{1/\!\!/4}.$

T.08S., R.03W. Mount Diablo Meridian: Sections 6 except E¹/₂ E¹/₂; Section 7 except E¹/₂ NE¹/₄; S¹/₂ S¹/₂ Section 8; SW¹/₄ SW¹/₄ Section 9; NW¹/₄, NW¹/₄ Section 16; N¹/₂ N¹/₂ Section 17: N¹/₂, NW¹/₄ SE¹/₄ Section 18.

T.08S., R.04W. Mount Diablo Meridian: Sections 1–2; SE 1 /4, E 1 /2 NE 1 /4, E 1 /2 SW 1 /4 Section 3; NW 1 /4 NW 1 /4, NE 1 /4 NE 1 /4 Section 10; NE 1 /4, N 1 /2 NW 1 /4 Section 11; Section 12 except SW 1 /4 SW 1 /4.

Proposed Critical Habitat includes only Private lands described within the following areas:

T.08S., R.04W. Mount Diablo Meridian: $S^{1/2}$ Section 4; SE^{1/4} Section 5; Sections 7–8; $N^{1/2}$ Section 9; Section 16–18; Section 20 except $NW^{1/4}$, SE^{1/4} SE^{1/4}; $NW^{1/4}$ Section 21.

Proposed Critical Habitat includes only State lands described within the following areas:

T.07S., R.03W. Mount Diablo Meridian: $S^{1/2}$ NW $^{1/4}$, N $^{1/2}$ SW $^{1/4}$, SE $^{1/4}$ SW $^{1/4}$ Section 33.

T.08S., R.03W. Mount Diablo Meridian: $E^{1/2}$ SW $^{1/4}$ Section 3; S $^{1/2}$ S $^{1/2}$, $E^{1/2}$ NW $^{1/4}$, NE $^{1/4}$ SW $^{1/4}$ Section 4; SW $^{1/4}$, S $^{1/2}$ NW $^{1/4}$, S $^{1/2}$ SE $^{1/4}$ Section 5; E $^{1/2}$ SE $^{1/4}$, SE $^{1/4}$ NE $^{1/4}$ Section 6; E $^{1/2}$ NE $^{1/4}$ Section 7; Section 8 except S $^{1/2}$; NW $^{1/4}$, NV $^{1/2}$ NE $^{1/4}$, NW $^{1/4}$ SW $^{1/4}$ Section 9; W $^{1/2}$, NW $^{1/4}$ Section 10.

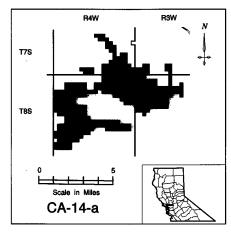
T.08S., R.04W. Mount Diablo Meridian: SE 1 4, S 1 2 SW 1 4 Section 19; SE 1 4 SE 1 4 Section 20; Section 21 except NW 1 4; N 1 2, NW 1 4 Sevion 22; Section 23 except S 1 2 S 1 2; S 1 2 NW 1 4, N 1 2 SW 1 4, NW 1 4 SE 1 4, SW 1 4 NE 1 4 Section 24; N 1 2 NW 1 4, SW 1 4 NW 1 4 Section 28; Sections 29 except E 1 2 SE 1 4; NE 1 4, NV 1 5 NW 1 4 Section 30.

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only State lands described within the following areas:

Lands within Spanish Land Grant: Grant Number 205–Punta de Ano Nuevo.

T.08S., R.04W. Mount Diablo Meridian: $SW^{1/4}SW^{1/4}$ Section 29; $S^{1/2}$ Section 30.



Map and description of CA-14-b taken from United States Fish and

Wildlife Service 1:100;000 map; California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

T.08S., R.03W. Mount Diablo Meridian: $S^{1/2} SE^{1/4}$ Section 19; $S^{1/2} SW^{1/4}$ Section 20; Section 29 except $E^{1/2} NE^{1/4}$; Section 30 except $NW^{1/4} NW^{1/4}$; Sections 31–32; Section 33 except $E^{1/2} E^{1/2}$.

T.08S., R.04W. Mount Diablo Meridian: SE¹/4, E¹/2 SW¹/4, SW¹/4 SW¹/4, SE¹/4 NE¹/4 Section 25; SE¹/4 SE¹/4 Section 34; SE¹/4, S¹/2 SW¹/4, NE¹/4 SW¹/4, NE¹/4 NE¹/4 Section 35; Section 36.

T.09S., R.03W. Mount Diablo Meridian: $W^{1}/2 NW^{1}/4 Section 3$; Section 4 except $E^{1}/2 SE^{1}/4$; Sections 5–7; Section 8 except $S^{1}/2 SE^{1}/4$, SE $^{1}/4 SW^{1}/4$; N $^{1}/2 NW^{1}/4$, SW $^{1}/4 NW^{1}/4 Section 9$; SW $^{1}/4 NW^{1}/4 Section 15$; NE $^{1}/4 NU^{1}/4 Section 16$; Section 18 except $E^{1}/2 SE^{1}/4$; W $^{1}/2 NW^{1}/4 Section 19$; S $^{1}/2 NE^{1}/4$, NW $^{1}/4 SE^{1}/4$, SE $^{1}/4 SE^{1}/4 Section 30$; N $^{1}/2 NE^{1}/4$, S $^{1}/2 NW^{1}/4 SE^{1}/4 SW^{1}/4 SE^{1}/4 Section 31.$

T.09S., R.04W. Mount Diablo Meridian: Sections 1–2; Section 3 except NW¹/4 NW¹/4, SW¹/4 SW¹/4; E¹/2 SE¹/4 SE¹/4 NE¹/4 Section 4; SE¹/4, S¹/2 SW¹/4, NE¹/4 SW¹/4, SW¹/4 NE¹/4 Section 9; S¹/2, N¹/2 NE¹/4, NE¹/4 NW¹/4 Section 10; Sections 11–12; Section 13 except SE¹/4 SW¹/4; Sections 14–16; E¹/2 E¹/2, SE¹/4 SW¹/4 Section 22; Section 23; Section 24 except E¹/2 E¹/2, NE¹/4 NW¹/4, NW¹/4 NE¹/4; N¹/2 NW¹/4, SE¹/4 SE¹/4, SE¹/4 SW¹/4 Section 25; E¹/2 W¹/2, NW¹/4 NW¹/4, NE¹/4 NE¹/4, NE¹/4 SE¹/4; SE¹/4, E¹/2 NE¹/4, NW¹/4 NE¹/4, NE¹/4 SE¹/4; SE¹/4, E¹/2 NE¹/4, NW¹/4 NE¹/4, NE¹/4 NB¹/4, SE¹/4; SE¹/4, E¹/2 NE¹/4, NW¹/4 NE¹/4, NE¹/4 NW¹/4, S¹/2 NW¹/4 Section 34; N¹/2 NW¹/4, SE¹/4 SW¹/4 Section 35.

T.10S., R.04W. Mount Diablo Meridian: $NE^{1}/4$ $NE^{1}/4$ Section 3.

Proposed Critical Habitat includes only Private lands described within the following areas:

T.09S., R.04W. Mount Diablo Meridian: Section 16; Section 21 except $S^{1/2}$, $E^{1/2}$ $NE^{1/4}$.

Description of Lands Using Protracted Public Land Survey Lines

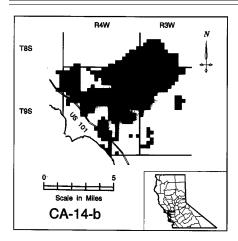
Proposed Critical Habitat includes only State lands described within the following areas:

T.09S., R.04W. Mount Diablo Meridian: NE 1 4 SE 1 4 Section 28.

Lands within Spanish Land Grant: Grant Number 205-Punta de Ano Nuevo.

T.08S., R.04W. Mount Diablo Meridian: $SE^{1/4}$ $SW^{1/4}$, $SW^{1/4}$ $SE^{1/4}$ Section 4.

T.09S., R.04W. Mount Diablo Meridian: Section 5 except E $^{1/2}$ E $^{1/2}$; Section 6 except N $^{1/2}$ N $^{1/2}$, W $^{1/2}$ SW $^{1/4}$; Section 7 except W $^{1/2}$ NW $^{1/4}$, S $^{1/2}$ SE $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$; Section 8 except E $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ SE $^{1/4}$; Section 17 except S $^{1/2}$ SW $^{1/4}$, SW $^{1/4}$ SE $^{1/4}$; E $^{1/2}$ SE $^{1/4}$ Section 18; W $^{1/2}$ NE $^{1/4}$, NE $^{1/4}$ SE $^{1/4}$ Section 20; W $^{1/2}$ NW $^{1/4}$, NW $^{1/4}$ SW $^{1/4}$ Section 21.

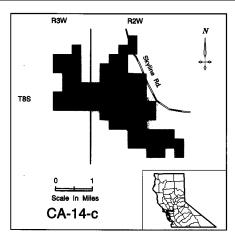


Map and description of CA-14-c taken from United States Fish and Wildlife Service 1:100;000 map; California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

T.08S., R.02W. Mount Diablo Meridian: NW $^{1}/_{4}$ SW $^{1}/_{4}$, SW $^{1}/_{4}$ NW $^{1}/_{4}$ Section 5; S $^{1}/_{2}$ SE $^{1}/_{4}$, NE $^{1}/_{4}$ Section 6; Section 7 except W $^{1}/_{2}$ NW $^{1}/_{4}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$; SW $^{1}/_{4}$ Section 8; W $^{1}/_{2}$, SW $^{1}/_{4}$ NE $^{1}/_{4}$, NW $^{1}/_{4}$ SE $^{1}/_{4}$ Section 17; Section 18 except S $^{1}/_{2}$ SW $^{1}/_{4}$, NW $^{1}/_{4}$ SW $^{1}/_{4}$; N $^{1}/_{2}$, N $^{1}/_{2}$ SE $^{1}/_{4}$ Section 20; W $^{1}/_{2}$ NW $^{1}/_{4}$, NE $^{1}/_{4}$ SW $^{1}/_{4}$ Section 21.

T.08S., R.03W. Mount Diablo Meridian: S 1 /2 SW 1 /4, W 1 /2 SE 1 /4 Section 1; Section 12 except W 1 /2 NE 1 /4, W 1 /2 SW 1 /4; N 1 /2 Section 13.



Map and description of CA-15 taken from United States Fish and Wildlife Service 1:100;000 map; California; 1995.

Proposed Critical Habitat includes only State lands described within the following areas:

 $\begin{array}{c} T.10S.,\,R.02W.\,\,Mount\,\,Diablo\,\,Meridian:\\ S^{1}\!\!/_2\,\,S^{1}\!\!/_2,\,\,NW^{1}\!\!/_4\,\,SW^{1}\!\!/_4\,\,Section\,\,6;\,\,Section\,\,7\\ except\,\,S^{1}\!\!/_2\,\,SW^{1}\!\!/_4,\,\,NW^{1}\!\!/_4\,\,SW^{1}\!\!/_4;\,\,SW^{1}\!\!/_4,\,\,S^{1}\!\!/_2\\ NW^{1}\!\!/_4,\,\,SW^{1}\!\!/_4\,\,SE^{1}\!\!/_4\,\,Section\,\,8;\,\,SW^{1}\!\!/_4,\,\,SW^{1}\!\!/_4\\ NW^{1}\!\!/_4\,\,Section\,\,16;\,\,Section\,\,17\,\,except\,\,SW^{1}\!\!/_4\\ SW^{1}\!\!/_4;\,\,SE^{1}\!\!/_4\,\,NE^{1}\!\!/_4,\,\,NE^{1}\!\!/_4\,\,SE^{1}\!\!/_4\,\,Section\,\,18;\\ N^{1}\!\!/_2\,\,NW^{1}\!\!/_4\,\,Section\,\,20;\,\,N^{1}\!\!/_2\,\,N^{1}\!\!/_2\,\,Section\,\,21. \end{array}$

Description of Lands Using Protracted Public Land Survey Lines

Proposed Critical Habitat includes only State lands described within the following areas:

Lands within Spanish Land Grant: Grant Number 208–Canada del Rincon en el Rio de San Lorenzo de Santa Cruz.

T.10S., R.02W. Mount Diablo Meridian: SE 1 4, SE 1 4 NE 1 4, SE 1 4 SW 1 4 Section 34; S 1 2, SW 1 4 NE 1 4 Section 35.

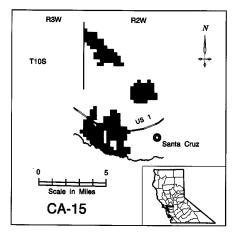
T.11S., R.01W. Mount Diablo Meridian: $NW^{1/4} SW^{1/4}$, $SW^{1/4} NW^{1/4}$ Section 1; Section

2 except $S^{1/2}$ $SE^{1/4}$; Section 3 except $W^{1/2}$ $W^{1/2}$, $SE^{1/4}$ $SW^{1/4}$.

Grant Number 207-Refugio

T.11S., R.01W. Mount Diablo Meridian: SE 1 /4, SE 1 /4 NE 1 /4 Section 7; E 1 /2 SE 1 /4 Section 8; S 1 /2 SW 1 /4, NW 1 /4 SW 1 /4 Section 9; W 1 /2, S 1 /2 SE 1 /4 Section 16; Section 17 except NW 1 /4; Section 18 except NW 1 /4 NW 1 /4, SE 1 /4 NE 1 /4, NE 1 /4 SE 1 /4; Section 19 except S 1 /2 SW 1 /4, NW 1 /4 SW 1 /4; Section 20 except W 1 /2 E 1 /2, S 1 /2 SE 1 /4; Section 21 except SE 1 /4 SE 1 /4, SW 1 /4 SW 1 /4 NW 1 /4 Section 27; Section 28 except W 1 /2 NW 1 /4, NE 1 /4 NE 1 /4; SW 1 /4 SW 1 /4; Section 29 except SW 1 /4, S 1 /2 SE 1 /4, N 1 /2 NE 1 /4, SW 1 /4 NW 1 /4; NE 1 /4 NE 1 /4 Section 30.

T.11S., R.03W. Mount Diablo Meridian: NE¹/₄ NE¹/₄ Section 24.



Dated: July 31, 1995.

George T. Frampton, Jr.,

Assistant Secretary for Fish and Wildlife and Parks.

[FR Doc. 95–19355 Filed 8–9–95; 8:45 am] BILLING CODE 4310–55–P