

Critical Area Legal Requirements

General Critical Area Requirements

RCW 36.70A.060

Natural resource lands and critical areas — Development regulations.

(2) Each county and city shall adopt development regulations that protect critical areas that are required to be designated under RCW [36.70A.170](#).

RCW 36.70A.170

Natural resource lands and critical areas — Designations.

(1) On or before September 1, 1991, each county, and each city, shall designate where appropriate: (d) Critical areas.

(2) In making the designations required by this section, counties and cities shall consider the guidelines established pursuant to RCW [36.70A.050](#).

RCW 36.70A.172

Critical areas — Designation and protection — Best available science to be used.

(1) In designating and protecting critical areas under this chapter, counties and cities shall include the best available science in developing policies and development regulations to protect the functions and values of critical areas. In addition, counties and cities shall give special consideration to conservation or protection measures necessary to preserve or enhance anadromous fisheries.

(2) If it determines that advice from scientific or other experts is necessary or will be of substantial assistance in reaching its decision, the growth management hearings board may retain scientific or other expert advice to assist in reviewing a petition under RCW [36.70A.290](#) that involves critical areas.

WAC 365-190-020

Purpose.

(1) The intent of this chapter is to establish minimum guidelines to assist all counties and cities in classifying and designating agricultural lands, forest lands, mineral resource lands, and critical areas.

(2) Growth management, natural resource land conservation, and critical areas protection share problems related to governmental costs and efficiency. The unwise development of natural resource lands or areas susceptible to natural hazards may lead to inefficient use of limited public resources, jeopardize environmental resource functions and values, subject persons and property to unsafe conditions, and affect the perceived quality of life. It is more costly to remedy the loss of natural resource lands or critical areas than to conserve and protect them from loss or degradation. The inherent economic, ecological, social, and cultural values of natural resource lands and critical areas should be considered in the development of strategies designed to conserve and protect these lands.

(3) In recognition of these common concerns, classification and designation of natural resource lands and critical areas is intended to assure the long-term conservation of natural resource lands and the protection of critical areas, and to preclude land uses and developments which are incompatible with natural resource lands and critical areas. When classifying and designating natural resource lands and critical areas, counties and cities should integrate regulatory and nonregulatory approaches together in a comprehensive program that relates to existing local, state, and federal efforts. An integrated approach should also consider other applicable planning requirements, including the need to identify open space corridors in RCW [36.70A.160](#), and the need to include the best available science in policies and regulations protecting critical areas in RCW [36.70A.172](#).

(4) There are qualitative differences between and among critical areas. Not all areas and ecosystems are critical for the same reasons. Some are critical because of the hazard they present to public health and safety, some because of the values they represent to the public welfare. In some cases, the risk posed to

the public by use or development of a critical area can be mitigated or reduced by engineering or design; in other cases that risk cannot be effectively reduced except by avoidance of the critical area. Classification and designation of critical areas is intended to lead counties and cities to recognize the differences among these areas, and to develop appropriate regulatory and nonregulatory actions in response.

(5) There are also qualitative differences between and among natural resource lands. The three types of natural resource lands (agricultural, forest, and mineral) vary widely in their use, location, and size. One type may overlap another type. For example, designated forest resource lands may also include designated mineral resource lands. Agricultural resource lands vary based on the types of crops produced, their location on the landscape, and their relationship to sustaining agricultural industries in an identified geographic area.

(6) Counties and cities required or opting to plan under the act should consider the definitions and guidelines in this chapter when preparing development regulations that preclude uses and development incompatible with natural resource lands and critical areas (see RCW [36.70A.060](#)). Precluding incompatible uses and development does not mean a prohibition of all uses or development. Rather, it means governing changes in land uses, new activities, or development that could adversely affect natural resource lands or critical areas. For each type of natural resource land and critical area, counties and cities planning under the act should define classification schemes and prepare development regulations that govern changes in land uses and new activities by prohibiting clearly inappropriate actions and restricting, allowing, or conditioning other activities as appropriate.

(7) It is the intent of these guidelines that critical areas designations overlay other land uses including designated natural resource lands. For example, if both critical area and natural resource land use designations apply to a given parcel or a portion of a parcel, both or all designations must be made. Regarding natural resource lands, counties and cities should allow existing and ongoing resource management operations, that have long-term commercial significance, to continue. Counties and cities should encourage resource land managers to use the best management practices of their industry, especially where existing and ongoing resource management operations that have long-term commercial significance include designated critical areas. Future operations or expansion of existing operations should be done in consideration of protecting critical areas, and with special consideration for conservation or protection measures needed to preserve or enhance anadromous fisheries.

WAC 365-190-040
Process.

(1) The classification and designation of natural resource lands and critical areas is an important step among several in the overall growth management process. These steps, outlined in subsections (4) and (5) of this section comprise a vision of the future, and that vision gives direction to the steps in the form of specific goals and objectives. Under the act, the timing of the first steps coincided with development of the larger vision through the comprehensive planning process.

(2) The act required preliminary classifications and designations of natural resource lands and critical areas to be completed in 1991. Counties and cities planning under the act were to enact interim regulations to protect and conserve these natural resource lands and critical areas by September 1, 1991. By July 1, 1992, counties and cities not planning under the act were to bring their development regulations into conformance with their comprehensive plans. By July 1, 1993, counties and cities planning under the act were to adopt comprehensive plans, consistent with the goals of the act. Implementation of the comprehensive plans was to occur by the following year.

(3) Under RCW [36.70A.130](#), all counties and cities must review, and if needed, update their natural resource lands and critical areas designations. Counties and cities fully planning under the act must also review and, if needed, update their natural resource lands conservation provisions, comprehensive plans and development regulations. Legal challenges to some updates have led to clarifications of the ongoing review and update requirements in RCW [36.70A.130](#), and the process for implementing those requirements. The process description and recommendations in this section incorporate those clarifications and describe both the initial designation and conservation or protection of natural resource lands and critical areas, as well as subsequent local actions to amend those designations and provisions.

(4) Classification is the first step in implementing RCW [36.70A.170](#) and requires defining categories to which natural resource lands and critical areas will be assigned.

(a) Counties and cities are encouraged to adopt classification schemes that are consistent with federal and state classification schemes and those of adjacent jurisdictions to ensure regional consistency. Specific

classification schemes for natural resource lands and critical areas are described in WAC [365-190-050](#) through [365-190-130](#).

(b) State agency classification schemes are available for specific critical area types, including the wetlands rating systems for eastern and western Washington from the Washington state department of ecology, the priority habitats and species categories and recommendations from the Washington state department of fish and wildlife, and the high quality ecosystem and rare plant categories and listings from the department of natural resources, natural heritage program. The Washington state department of natural resources provides significant information on geologic hazards and aquatic resources that may be useful in classifying these critical areas. Not all areas classified by state agencies must be designated, but such areas may be likely candidates for designation.

(5) Designation is the second step in implementing RCW [36.70A.170](#).

(a) Pursuant to RCW [36.70A.170](#), natural resource lands and critical areas must be designated based on their defined classifications. For planning purposes, designation establishes:

(i) The classification scheme;

(ii) The distribution, location, and extent of the uses of land, where appropriate, for agriculture, forestry, and mineral extraction; and

(iii) The general distribution, location, and extent of critical areas.

(b) Inventories and maps should indicate designations of natural resource lands. In circumstances where critical areas cannot be readily identified, these areas should be designated by performance standards or definitions, so they can be specifically identified during the processing of a permit or development authorization.

(c) Designation means, at a minimum, formal adoption of a policy statement, and may include further legislative action. Designating inventoried lands for comprehensive planning and policy definition may be less precise than subsequent regulation of specific parcels for conservation and protection.

(d) Successful achievement of the natural resource industries goal set forth in RCW [36.70A.020](#) requires the conservation of land base sufficient in size and quality to maintain and enhance those industries, and the development and use of land use techniques that discourage uses incompatible to the management of designated lands.

(e) Mineral resource lands especially should be designated as close as possible to their likely end use areas, to avoid losing access to those valuable minerals by development, and to minimize the costs of production and transport. It is expected that mineral resource lands will be depleted of minerals over time, and that subsequent land uses may occur on these lands after mining is completed.

(6) Classifying, inventorying, and designating lands or areas does not imply a change in a landowner's right to use his or her land under current law. The law requires that natural resource land uses be protected from land uses on adjacent lands that would restrict resource production. Development regulations adopted to protect critical areas may limit some land development options. Land uses are regulated on a parcel basis and innovative land use management techniques should be applied when counties and cities adopt development regulations to conserve and protect designated natural resource lands and critical areas. The purpose of designating natural resource lands is to enable industries to maintain access to lands with long-term commercial significance for agricultural, forest, and mineral resource production. The purpose is not to confine all natural resource production activity only to designated lands nor to require designation as the basis for a permit to engage in natural resource production. The department provides technical assistance to counties and cities on a wide array of regulatory options and alternative land use management techniques.

(7) Overlapping designations. The designation process may result in critical area designations that overlay other critical area or natural resource land classifications. Overlapping designations should not necessarily be considered inconsistent. If two or more critical area designations apply to a given parcel, or portion of a given parcel, both or all designations apply.

(a) If a critical area designation overlies a natural resource land designation, both designations apply. For counties and cities required or opting to plan under the act, reconciling these multiple designations will be

the subject of local development regulations adopted pursuant to RCW [36.70A.060](#).

(b) If two or more natural resource land designations apply, counties and cities must determine if these designations are incompatible. If they are incompatible, counties and cities should examine the criteria to determine which use has the greatest long-term commercial significance, and that resource use should be assigned to the lands being designated.

(8) Counties and cities must involve the public in classifying and designating natural resource lands and critical areas. The process should include:

(a) Public participation program:

(i) Public participation should include, at a minimum, representative participation from the following entities: Landowners; representatives of agriculture, forestry, mining, business, environmental, and community groups; tribal governments; representatives of adjacent counties and cities; and state agencies. The public participation program should include early and timely public notice of pending designations and regulations and should address proposed nonregulatory incentive programs.

(ii) Counties and cities are encouraged to consider a variety of opportunities to adequately communicate with the public. These methods of notification may include, but are not limited to, traditional forms of mailed notices, published announcements, electronic mail, and internet sites to distribute informational brochures, meeting times, project timelines, and design and map proposals to provide an opportunity for the public to participate.

(iii) The department provides technical assistance in preparing public participation programs.

(b) Adoption process. Statutory and local processes already in place governing land use decisions are the minimum processes required for designation and regulation pursuant to RCW [36.70A.060](#) and [36.70A.170](#). At a minimum the following steps should be included in the adoption process:

(i) Accept the requirements of chapter [36.70A](#) RCW;

(ii) Consider minimum guidelines developed by the department under RCW [36.70A.050](#);

(iii) Consider other definitions used by state and federal regulatory agencies;

(iv) Consider definitions used by similarly situated counties and cities;

(v) Determine recommended definitions and check conformance with minimum definitions in chapter [36.70A](#) RCW;

(vi) Adopt definitions, classifications, and standards;

(vii) Apply definitions by mapping designated natural resource lands; and

(viii) Establish procedures for amending natural resource lands and critical areas designations.

(c) Intergovernmental coordination.

(i) The act requires coordination among counties and cities to reconcile conflicts and strive for consistent definitions, standards, and designations within regions. The minimum coordination process may include one of two options:

(A) Notification option: Adjacent cities (or those with overlapping or adjacent planning areas); counties and the cities within them; and adjacent counties would provide each other and special purpose districts and special purpose districts within them notice of their intent to classify and designate natural resource lands and critical areas within their jurisdiction. Counties or cities receiving notice may provide comments and input to the notifying jurisdiction. The notifying jurisdiction specifies a comment period prior to adoption. Within forty-five days of the jurisdiction's date of adoption of classifications or designations, affected jurisdictions are supplied information on how to locate a copy of the proposal. The department may provide mediation services to counties and cities to help resolve disputed classifications or designations.

(B) Interlocal agreement option: Adjacent counties and cities; all the cities within a county; or several counties and the cities within them may choose to cooperatively classify and designate natural resource lands and critical areas within their jurisdictions. Counties and cities by interlocal agreement would identify the definitions, classification, designation, and process that will be used to classify and designate lands within their areas. State and federal agencies or tribes may participate in the interlocal agreement or be provided a method of commenting on designations and classifications prior to adoption by jurisdictions.

(ii) Counties or cities may begin with the notification option in (c)(i)(A) of this subsection and choose to change to the interlocal agreement method in (c)(i)(B) of this subsection prior to completion of the classification and designations within their jurisdictions. Approaches to intergovernmental coordination may vary between natural resource land and critical area designation. It is intended that state and federal agencies with land ownership or management responsibilities, special purpose districts, and Indian tribes with interests within the counties or cities adopting classification and designation be consulted and their input considered in the development and adoption of designations and classifications. The department may provide mediation services to help resolve disputes between counties and cities that are using either the notification or interlocal agreement method of coordinating between jurisdictions.

(d) Mapping natural resource lands. Mapping should be done to identify designated natural resource lands. For counties and cities fully planning under the act, natural resource lands designations must be incorporated into the comprehensive plan land use element and should be shown on the future land use map required under RCW [36.70A.070](#).

(9) Evaluation. When counties and cities adopt a comprehensive plan, the act requires them to evaluate their designations and development regulations to assure that they are consistent with and implement the comprehensive plan. When considering changes to the designations or development regulations, counties and cities should seek interjurisdictional coordination and must include public participation.

(10) Designation amendment process.

(a) Land use planning is a dynamic process. Designation procedures should provide a rational and predictable basis for accommodating change.

(b) Reviewing natural resource lands designation. In classifying and designating natural resource lands, counties must approach the effort as a county-wide or regional process. Counties and cities should not review natural resource lands designations solely on a parcel-by-parcel process. Designation amendments should be based on consistency with one or more of the following criteria:

(i) A change in circumstances pertaining to the comprehensive plan or public policy related to designation criteria in WAC [365-190-050\(3\)](#), [365-190-060\(2\)](#), and [365-190-070\(3\)](#);

(ii) A change in circumstances to the subject property, which is beyond the control of the landowner and is related to designation criteria in WAC [365-190-050\(3\)](#), [365-190-060\(2\)](#), and [365-190-070\(3\)](#);

(iii) An error in designation or failure to designate;

(iv) New information on natural resource land or critical area status related to the designation criteria in WAC [365-190-050\(3\)](#), [365-190-060\(2\)](#), and [365-190-070\(3\)](#); or

(v) A change in population growth rates, or consumption rates, especially of mineral resources.

(11) Use of innovative land use management techniques.

(a) Natural resource uses have preferred and primary status in designated natural resource lands. Counties and cities must determine if and to what extent other uses will be allowed. If other uses are allowed, counties and cities should consider using innovative land management techniques that minimize land use incompatibilities and most effectively maintain current and future natural resource lands.

(b) Techniques to conserve and protect agricultural, forest lands, and mineral resource lands include the purchase or transfer of development rights, fee simple purchase of the land, less than fee simple purchase, purchase with leaseback, buffering, land trades, conservation easements, current use assessments, innovative zoning, or other innovations which maintain current uses and assure the conservation of these natural resource lands.

(12) Development in and adjacent to agricultural, forest, and mineral resource lands shall assure the continued management of these lands for natural resource production. Uses that would convert natural resource lands to other uses or would interfere with the allowed natural resource uses must be prohibited except as authorized in accessory uses under RCW [36.70A.177](#) or other applicable statutes. Any uses adjacent to agricultural, forest, and mineral resource lands of long-term commercial significance must not interfere with their continued use for the production of agricultural, forest, or mineral products respectively. Counties and cities should consider the adoption of right-to-farm provisions, and may also adopt measures to conserve and enhance marine aquaculture. Covenants or easements recognizing that farming, forestry, and mining activities will occur should be imposed on new development in or adjacent to agricultural, forest, or mineral resource lands. Where buffering is used it should be on land within the adjacent development unless an alternative is mutually agreed on by adjacent landowners.

WAC 365-190-080
Critical areas

(1) Counties and cities must protect critical areas. Counties and cities required or opting to plan under the act must consider the definitions and guidelines in this chapter when designating critical areas and when preparing development regulations that protect the function and values of critical areas. The department provides additional recommendations for adopting critical areas regulations in WAC [365-196-485](#).

(2) Counties and cities must include the best available science as described in chapter [365-195 WAC](#), when designating critical areas and when developing policies and regulations that protect critical areas. Counties and cities must give special consideration to conservation or protection measures necessary to preserve or enhance anadromous fisheries. Counties and cities are encouraged to also protect both surface and groundwater resources, because these waters often recharge wetlands, streams and lakes.

(3) Counties and cities are encouraged to develop a coordinated regional critical areas protection program that combines interjurisdictional cooperation, public education, incentives to promote voluntary protective measures, and regulatory standards that serve to protect these critical areas.

(4) Counties and cities should designate critical areas by using maps and performance standards.

(a) Maps may benefit the public by increasing public awareness of critical areas and their locations. County and city staff may also benefit from maps which provide a useful tool for determining whether a particular land use permit application may affect a critical area. However, because maps may be too inexact for regulatory purposes, counties and cities should rely primarily on performance standards to protect critical areas. Counties and cities should apply performance standards to protect critical areas when a land use permit decision is made.

(b) Counties and cities should clearly state that maps showing known critical areas are only for information or illustrative purposes.

///Wetlands

RCW 36.70A.175

Wetlands to be delineated in accordance with manual.

Wetlands regulated under development regulations adopted pursuant to this chapter shall be delineated in accordance with the manual adopted by the department pursuant to RCW [90.58.380](#).

WAC 173-22-35 Wetland identification and delineation.

Identification of wetlands and delineation of their boundaries pursuant to this chapter shall be done in accordance with the approved federal wetland delineation manual and applicable regional supplements. Review copies are available at the department of ecology headquarters and regional offices. Links to the on-line versions are accessible through the department of ecology wetlands web page. Copies of the original published manual are available through the U.S. Army Corps of Engineers National Technical Information Service (phone 703-487-4650).

WAC 365-190-090

Wetlands.

(1) The wetlands of Washington state are fragile ecosystems that serve a number of important beneficial functions. Wetlands assist in reducing erosion, siltation, flooding, ground and surface water pollution, and provide wildlife, plant, and fisheries habitats. Wetlands destruction or impairment may result in increased public and private costs and property losses.

(2) In designating wetlands for regulatory purposes, counties and cities must use the definition of wetlands in RCW [36.70A.030](#). Counties and cities are requested and encouraged to make their actions consistent with the intent and goals of "protection of wetlands," Executive Orders 89-10 and 90-04 as they existed on September 1, 1990. Additionally, counties and cities should consider wetlands protection guidance provided by the department of ecology, including the management recommendations based on the best available science, mitigation guidance, and provisions addressing the option of using wetland mitigation banks.

(3) Wetlands rating systems. Wetland functions vary widely.

(a) When designating wetlands, counties and cities should use a rating system that evaluates the existing wetland functions and values to determine what functions must be protected.

(b) In developing wetlands rating systems, counties and cities should consider using the wetland rating system developed jointly by the department of ecology and the United States Army Corps of Engineers.

(c) If a county or city chooses to use an alternative rating system, it must include the best available science.

(d) A rating system should evaluate, at a minimum, the following factors:

(i) Wetlands functions and values;

(ii) Degree of sensitivity to disturbance;

(iii) Rarity;

(iv) The degree to which a wetland contributes to functions and values of a larger ecosystem. Rating systems should generally rate wetlands higher when they are well-connected to adjacent or nearby habitats, are part of an intact ecosystem or function in a network of critical areas; and

(v) The ability to replace the functions and values through compensatory mitigation.

(4) Counties and cities may use the National Wetlands Inventory and a landscape-scale watershed characterization as information sources for determining the approximate distribution and extent of wetlands. The National Wetlands Inventory is an inventory providing maps of wetland areas according to the definition of wetlands issued by the United States Department of Interior Fish and Wildlife Service. A landscape-scale watershed characterization may identify areas that are conducive to forming wetlands based on topography, soils and geology, and hydrology. Any potential locations of wetlands based on the National Wetlands Inventory or landscape-scale watershed characterization should be confirmed by field visits, either before or as part of permitting activities, and identified wetlands should have their boundaries delineated for regulation consistent with the wetlands definition in RCW [36.70A.030](#).

(5) Counties and cities must use the methodology for regulatory delineations in the adopted state manual identified in RCW [36.70A.175](#).

///Frequently Flooded Areas

WAC 365-190-110

Frequently flooded areas.

Frequently flooded areas. Flood plains and other areas subject to flooding perform important hydrologic functions and may present a risk to persons and property.

(1) Classifications of frequently flooded areas should include, at a minimum, the 100-year flood plain designations of the Federal Emergency Management Agency and the National Flood Insurance Program.

(2) Counties and cities should consider the following when designating and classifying frequently flooded areas:

(a) Effects of flooding on human health and safety, and to public facilities and services;

(b) Available documentation including federal, state, and local laws, regulations, and programs, local studies and maps, and federal flood insurance programs, including the provisions for urban growth areas in RCW [36.70A.110](#);

(c) The future flow flood plain, defined as the channel of the stream and that portion of the adjoining flood plain that is necessary to contain and discharge the base flood flow at build out;

(d) The potential effects of tsunamis, high tides with strong winds, sea level rise, and extreme weather events, including those potentially resulting from global climate change;

(e) Greater surface runoff caused by increasing impervious surfaces.

///Geologically Hazardous Areas

WAC 365-190-120

Geologically hazardous areas.

(1) Geologically hazardous areas. Geologically hazardous areas include areas susceptible to erosion, sliding, earthquake, or other geological events. They pose a threat to the health and safety of citizens when incompatible commercial, residential, or industrial development is sited in areas of significant hazard.

(2) Some geological hazards can be reduced or mitigated by engineering, design, or modified construction or mining practices so that risks to public health and safety are minimized. When technology cannot reduce risks to acceptable levels, building in geologically hazardous areas must be avoided. The distinction between avoidance and compensatory mitigation should be considered by counties and cities that do not currently classify geological hazards, as they develop their classification scheme.

(3) Areas that are susceptible to one or more of the following types of hazards shall be classified as a geologically hazardous area:

(a) Erosion hazard;

(b) Landslide hazard;

(c) Seismic hazard; or

(d) Areas subject to other geological events such as coal mine hazards and volcanic hazards including: Mass wasting, debris flows, rock falls, and differential settlement.

(4) Counties and cities should assess the risks and classify geologically hazardous areas as either:

(a) Known or suspected risk;

(b) No known risk; or

(c) Risk unknown - data are not available to determine the presence or absence of risk.

(5) Erosion hazard areas include areas likely to become unstable, such as bluffs, steep slopes, and areas with unconsolidated soils. Erosion hazard areas may also include coastal erosion areas: This information can be found in the Washington state coastal atlas available from the department of ecology. Counties and cities may consult with the United States Department of Agriculture Natural Resources Conservation Service for data to help identify erosion hazard areas.

(6) Landslide hazard areas include areas subject to landslides based on a combination of geologic, topographic, and hydrologic factors. They include any areas susceptible to landslide because of any combination of bedrock, soil, slope (gradient), slope aspect, structure, hydrology, or other factors, and include, at a minimum, the following:

(a) Areas of historic failures, such as:

(i) Those areas delineated by the United States Department of Agriculture Natural Resources Conservation Service as having a significant limitation for building site development;

(ii) Those coastal areas mapped as class u (unstable), uos (unstable old slides), and urs (unstable recent slides) in the department of ecology Washington coastal atlas; or

(iii) Areas designated as quaternary slumps, earthflows, mudflows, lahars, or landslides on maps

published by the United States Geological Survey or Washington department of natural resources.

(b) Areas with all three of the following characteristics:

(i) Slopes steeper than fifteen percent;

(ii) Hillsides intersecting geologic contacts with a relatively permeable sediment overlying a relatively impermeable sediment or bedrock; and

(iii) Springs or groundwater seepage.

(c) Areas that have shown movement during the holocene epoch (from ten thousand years ago to the present) or which are underlain or covered by mass wastage debris of this epoch;

(d) Slopes that are parallel or subparallel to planes of weakness (such as bedding planes, joint systems, and fault planes) in subsurface materials;

(e) Slopes having gradients steeper than eighty percent subject to rockfall during seismic shaking;

(f) Areas potentially unstable as a result of rapid stream incision, stream bank erosion, and undercutting by wave action, including stream channel migration zones;

(g) Areas that show evidence of, or are at risk from snow avalanches;

(h) Areas located in a canyon or on an active alluvial fan, presently or potentially subject to inundation by debris flows or catastrophic flooding; and

(i) Any area with a slope of forty percent or steeper and with a vertical relief of ten or more feet except areas composed of bedrock. A slope is delineated by establishing its toe and top and measured by averaging the inclination over at least ten feet of vertical relief.

(7) Seismic hazard areas must include areas subject to severe risk of damage as a result of earthquake induced ground shaking, slope failure, settlement or subsidence, soil liquefaction, surface faulting, or tsunamis. Settlement and soil liquefaction conditions occur in areas underlain by cohesionless soils of low density, typically in association with a shallow groundwater table. One indicator of potential for future earthquake damage is a record of earthquake damage in the past. Ground shaking is the primary cause of earthquake damage in Washington, and ground settlement may occur with shaking. The strength of ground shaking is primarily affected by:

(a) The magnitude of an earthquake;

(b) The distance from the source of an earthquake;

(c) The type or thickness of geologic materials at the surface; and

(d) The type of subsurface geologic structure.

(8) Other geological hazard areas:

(a) Volcanic hazard areas must include areas subject to pyroclastic flows, lava flows, debris avalanche, or inundation by debris flows, lahars, mudflows, or related flooding resulting from volcanic activity.

(b) Mine hazard areas are those areas underlain by, adjacent to, or affected by mine workings such as adits, gangways, tunnels, drifts, or air shafts. Factors which should be considered include: Proximity to development, depth from ground surface to the mine working, and geologic material.

Fish and Wildlife Habitat Conservation Areas

WAC 365-190-130

Fish and wildlife habitat conservation areas.

(1) "Fish and wildlife habitat conservation" means land management for maintaining populations of species in suitable habitats within their natural geographic distribution so that the habitat available is sufficient to

support viable populations over the long term and isolated subpopulations are not created. This does not mean maintaining all individuals of all species at all times, but it does mean not degrading or reducing populations or habitats so that they are no longer viable over the long term. Counties and cities should engage in cooperative planning and coordination to help assure long term population viability.

Fish and wildlife habitat conservation areas contribute to the state's biodiversity and occur on both publicly and privately owned lands. Designating these areas is an important part of land use planning for appropriate development densities, urban growth area boundaries, open space corridors, and incentive-based land conservation and stewardship programs.

(2) Fish and wildlife habitat conservation areas that must be considered for classification and designation include:

- (a) Areas where endangered, threatened, and sensitive species have a primary association;
- (b) Habitats and species of local importance, as determined locally;
- (c) Commercial and recreational shellfish areas;
- (d) Kelp and eelgrass beds; herring, smelt, and other forage fish spawning areas;
- (e) Naturally occurring ponds under twenty acres and their submerged aquatic beds that provide fish or wildlife habitat;
- (f) Waters of the state;
- (g) Lakes, ponds, streams, and rivers planted with game fish by a governmental or tribal entity; and
- (h) State natural area preserves, natural resource conservation areas, and state wildlife areas.

(3) When classifying and designating these areas, counties and cities must include the best available science, as described in chapter [365-195 WAC](#).

- (a) Counties and cities should consider the following:
 - (i) Creating a system of fish and wildlife habitat with connections between larger habitat blocks and open spaces, integrating with open space corridor planning where appropriate;
 - (ii) Level of human activity in such areas including presence of roads and level of recreation type (passive or active recreation may be appropriate for certain areas and habitats);
 - (iii) Protecting riparian ecosystems including salmonid habitat, which also includes marine nearshore areas;
 - (iv) Evaluating land uses surrounding ponds and fish and wildlife habitat conservation areas that may negatively impact these areas, or conversely, that may contribute positively to their function;
 - (v) Establishing buffer zones around these areas to separate incompatible uses from habitat areas;
- (b) Counties and cities may also consider the following:
 - (i) Potential for restoring lost and impaired salmonid habitat;
 - (ii) Potential for designating areas important for local and ecoregional biodiversity; and
 - (iii) Establishing or enhancing nonregulatory approaches in addition to regulatory methods to protect fish and wildlife habitat conservation areas.

(4) Sources and methods.

(a) Endangered, threatened and sensitive species. Counties and cities should identify and classify seasonal ranges and habitat elements where federal and state listed endangered, threatened and sensitive

species have a primary association and which, if altered, may reduce the likelihood that the species will persist over the long term. Counties and cities should consult current information on priority habitats and species identified by the Washington state department of fish and wildlife. Recovery plans and management recommendations for many of these species are available from the United States Fish and Wildlife Service, the National Marine Fisheries Service and the Washington state department of fish and wildlife. Additional information is also available from the Washington state department of natural resources, natural heritage program, and aquatic resources program.

(b) Habitats and species areas of local importance. Counties and cities should identify, classify and designate locally important habitats and species. Counties and cities should consult current information on priority habitats and species identified by the Washington state department of fish and wildlife. Priority habitat and species information includes endangered, threatened and sensitive species, but also includes candidate species and other vulnerable and unique species and habitats. While these priorities are those of the Washington state department of fish and wildlife, they should be considered by counties and cities as they include the best available science. The Washington state department of fish and wildlife can also provide assistance with identifying and mapping important habitat areas at various landscape scales. Similarly, the Washington state department of natural resources' natural heritage program can provide a list of high quality ecological communities and systems and rare plants.

(c) Shellfish areas. All public and private tidelands or bedlands suitable for shellfish harvest shall be classified as critical areas. Counties and cities should consider both commercial and recreational shellfish areas. Counties and cities should consider the Washington state department of health classification of commercial and recreational shellfish growing areas to determine the existing condition of these areas. Further consideration should be given to the vulnerability of these areas to contamination. Shellfish protection districts established pursuant to chapter [90.72](#) RCW shall be included in the classification of critical shellfish areas.

(d) Kelp and eelgrass beds; herring, smelt and other forage fish spawning areas. Counties and cities must classify kelp and eelgrass beds, identified by the Washington state department of natural resources and the department of ecology. Though not an inclusive inventory, locations of kelp and eelgrass beds are compiled in the Washington coastal atlas published by the department of ecology. Herring, smelt and other forage fish spawning times and locations are outlined in WAC [220-110-240](#) through [220-110-271](#).

(e) Naturally occurring ponds under twenty acres and their submerged aquatic beds that provide fish or wildlife habitat. Naturally occurring ponds do not include ponds deliberately designed and created from dry sites, such as canals, detention facilities, wastewater treatment facilities, farmponds, temporary construction ponds (of less than three years duration) and landscape amenities. However, naturally occurring ponds may include those artificial ponds intentionally created from dry areas in order to mitigate conversion of ponds, if permitted by a regulatory authority.

(f) Waters of the state.

(i) Waters of the state are defined in RCW [90.48.020](#) and include lakes, rivers, ponds, streams, inland waters, underground waters, salt waters, and all other surface waters and water courses in Washington. Stream types are classified in Title [222](#) WAC, the forest practices regulations. Counties and cities may use the classification system established in WAC [222-16-030](#) to classify waters of the state. Counties and cities using the water types defined in WAC [222-16-030](#) or [222-16-031](#) (interim) should not rely solely on Washington state department of natural resources maps of these stream types for purposes of regulating land uses or establishing stream buffers.

(ii) Counties and cities that use the stream typing system developed by the department of natural resources should develop a process to verify actual stream conditions, identify flow alterations, and locate fish passage barriers by conducting a field visit. Field verification of all intermittent or nonfish bearing streams should occur during the wet season months of October to March or as determined locally.

(iii) Counties and cities may consider the following factors when classifying waters of the state as fish and wildlife habitat conservation areas:

(A) Species present which are endangered, threatened or sensitive, and other species of concern;

(B) Species present which are sensitive to habitat manipulation (e.g., priority habitats and species program);

(C) Historic presence of species of local importance;

(D) Existing surrounding land uses that are incompatible with salmonid habitat;

(E) Presence and size of riparian ecosystems;

(F) Existing water rights; and

(G) The intermittent nature of some waters of the state.

(g) Lakes, ponds, streams, and rivers planted with game fish. This includes game fish planted in these water bodies under the auspices of a federal, state, local, or tribal program or which supports priority fish species as identified by the Washington state department of fish and wildlife.

(h) State natural area preserves, natural resource conservation areas, and state wildlife areas. Natural area preserves and natural resource conservation areas are defined, established, and managed by the department of natural resources. State wildlife areas are defined, established, and managed by the Washington state department of fish and wildlife, which provides information about state wildlife areas for each county.

(i) Salmonid habitat. Counties and cities should consider recommendations found in salmon recovery plans (see the governor's salmon recovery office). Counties and cities may use information prepared by the United States Department of the Interior Fish and Wildlife Service, National Marine Fisheries Service, the Washington state department of fish and wildlife, the state recreation and conservation office, and the Puget Sound partnership to designate, protect and restore salmonid habitat.