

# Ecoregions of Idaho

Ecoregions denote areas of general similarity in ecosystems and in the type, quality, and quantity of environmental resources. They are designed to serve as a spatial framework for the research, assessment, management, and monitoring of ecosystems and ecosystem components, recognizing the spatial differences in the capacities and potentials of ecosystems, strongly the environment by its probable response to disturbance (O'Neill and others, 1999). These general purpose regions are critical for restructuring and implementing ecosystem management across agencies, state agencies, and non-government organizations that are responsible for different types of resources within the same geographical areas (O'Neill and others, 1999).

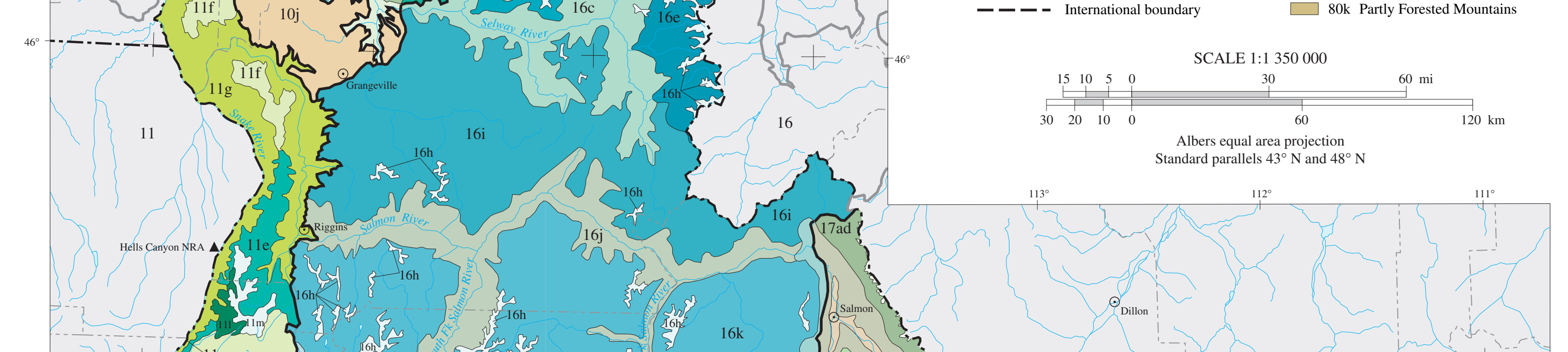
The approach used to compile this map is based on the premise that ecoregions can be identified through the analysis of the spatial patterns and the composition of biotic and abiotic phenomena that affect or reflect differences in ecosystem quality and integrity (Wilken, 1986; O'Neill, 1987, 1995). These phenomena include geology, physiography, vegetation, climate, soils, land use, wildlife, and hydrology.

The relative importance of these characteristic varies from one ecological region to another regardless of the hierarchical level. A Roman numeral hierarchical scheme has been adopted for different levels of ecological regions. Level I is the coarsest level, dividing North America into 15 ecological regions. Level II divides the continent into 52 regions (Commission for Environmental Cooperation Working Group, 1997). At level III, the continental United States contains 104 ecoregions and the conterminous United States has 84 ecoregions (United States Environmental Protection Agency (USEPA), 2000). Level IV is a further subdivision of level III ecoregions. Explanations of the methods used to define the ecoregions are given in O'Neill (1995), O'Neill and others (2000), Griffith and others (1994), and Gallant and others (1999).

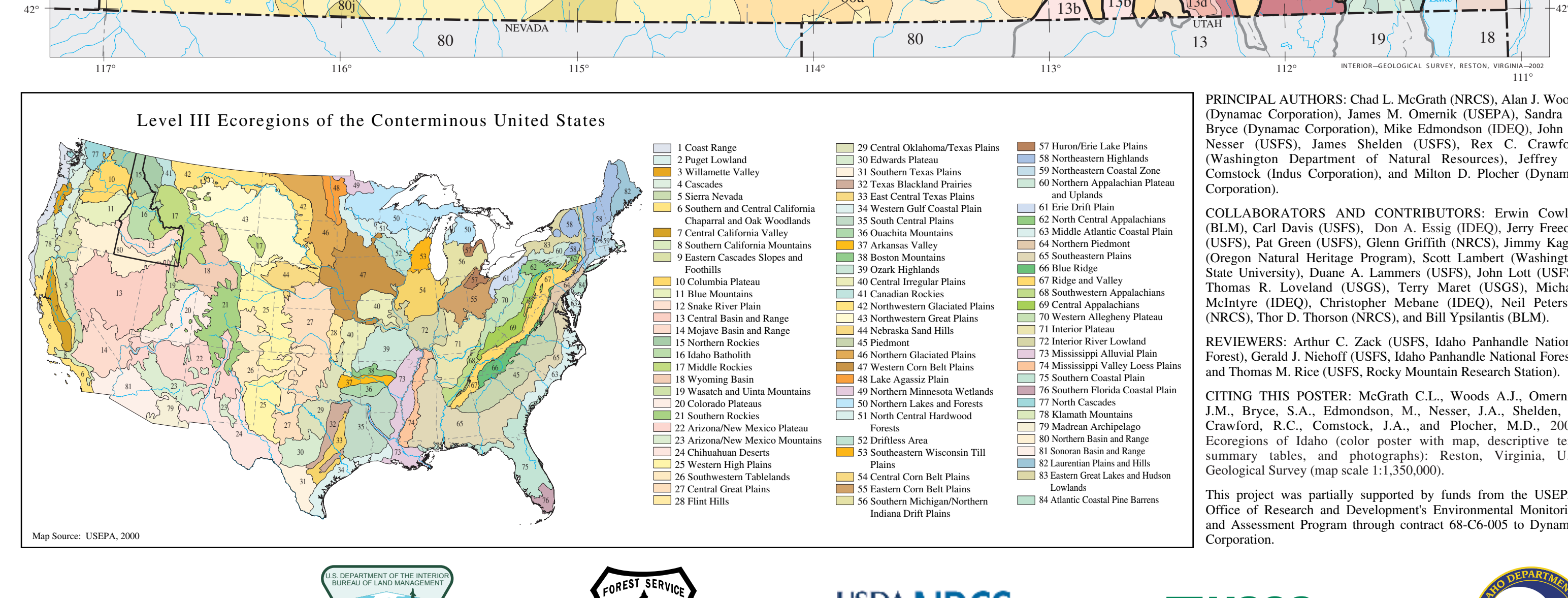
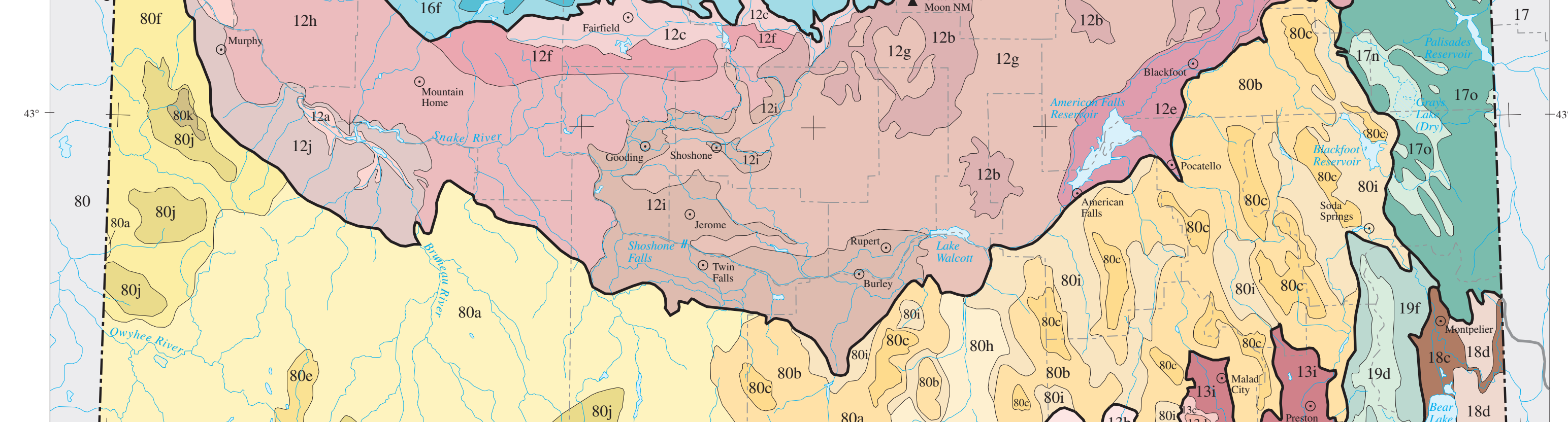
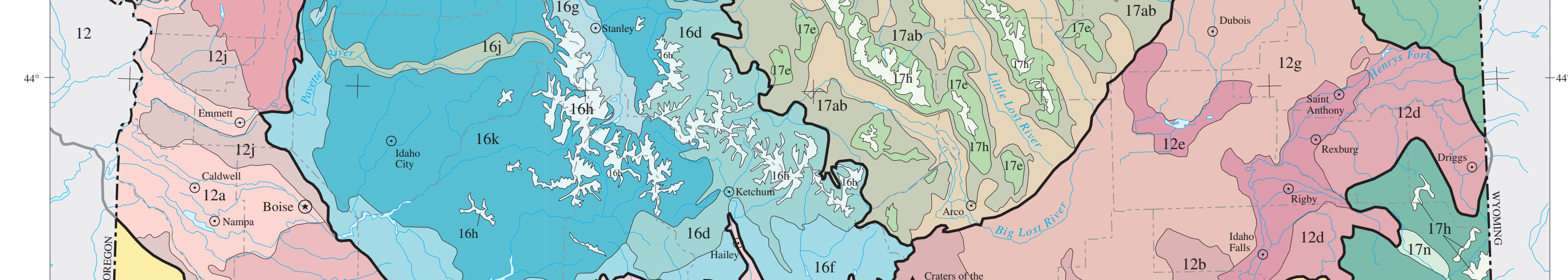
Idaho is made up of semi-arid shrub- and grass-covered plains, irrigated agricultural valleys, volcanic plateaus, forested mountains, woodland- and shrubland-covered hills, glaciated plateaus, and wetlands. Ecological diversity is enormous. There are 141 Level III ecoregions in Idaho and many sub-units into ecologically similar areas (O'Neill and others, 2000).

The level III ecoregion map on this poster was compiled at a scale of 1:250,000 and depicts revisions and subdivisions of earlier level III ecoregions that were originally compiled at a smaller scale (USEPA, 2000; O'Neill, 1987). This level III ecoregion map is a collaborative project primarily between US EPA Region 9, USDA National Forest System Environmental Effects Research Laboratory (Corvallis, Oregon), Idaho Division of Environmental Quality (IDEQ), United States Department of Agriculture Wildlife Service (USFS), United States Department of Agriculture-Natural Resources Conservation Service (USFS), United States Department of the Interior-Bureau of Land Management (BLM), United States Department of the Interior-Geological Survey (USGS)-Earth Resources Observation System (EROS) Data Center.

The project is associated with an integrative effort to develop a common framework of ecological regions. Reaching that objective requires recognition of the differences in the conceptual approaches and mapping methodologies applied to develop the most common ecoregion-type frameworks, including those developed by the USFS (Bailey and others, 1994), the USEPA (O'Neill, 1987, 1995), and the NRCS (U.S. Department of Agriculture-Natural Resources Conservation Service, 1995). As each of these frameworks evolved, their differences are becoming less discernible. Regional collaborative projects such as this one in Idaho, where agreement has been reached among multiple resource management agencies, are a step toward attaining consensus and consistency in ecoregion frameworks for the entire nation.



Legend for Level III Ecoregions of the Conterminous United States, listing ecoregion codes and names such as 10 Dissected Lows Uplands, 11 Blue Mountains, 12 Snake River Plain, etc.



**10. Columbia Plateau**  
Ecogion 10 is an arid grassland and sagebrush steppe that is surrounded by moister, predominantly forested, mountainous ecoregions. It is underlain by thick basalt. In the east, where precipitation is greater, deep loess soils have been extensively cultivated for wheat.

**11. Blue Mountains**  
Ecogion 11 is a complex of mountain ranges that are lower and much more open than the neighboring Cascades (14) and Northern Rockies (15). Only its highest peaks, particularly the Willow and Elkhorn ones, are forested by conifers. The dissected mountains of the Madras ecoregion are mostly blanketed in Tertiary basalt but have a core of mixed metamorphic, metavolcanic, and sedimentary rocks. Forests dominated by Douglas-fir, ponderosa pine, and lodgepole pine are common but being lost to the difficulty of reforestation following logging activities.

**12. Snake River Plain**  
The plains and low hills of the Snake River Plain are a vast, flat, and fertile landscape. It is underlain by a thick layer of loess. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**13. Central Basin and Range**  
Ecogion 13 is a vast and rugged landscape that is underlain by volcanic rocks. It is characterized by high plateaus, mountains, and valleys. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**14. Middle Rockies**  
The mountains of the Middle Rockies (14) are rugged and forested. They are underlain by volcanic rocks. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**15. Northern Rockies**  
The mountains of the Northern Rockies (15) are rugged and forested. They are underlain by volcanic rocks. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**16. Idaho Batholith**  
The volcanic rocks of the Idaho Batholith (16) are rugged and forested. They are underlain by volcanic rocks. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**17. Middle Rockies**  
The mountains of the Middle Rockies (17) are rugged and forested. They are underlain by volcanic rocks. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**18. Wyoming Basin**  
The mountains of the Wyoming Basin (18) are rugged and forested. They are underlain by volcanic rocks. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**19. Wasatch and Uinta Mountains**  
Ecogion 19 contains a core of high, precipitous mountains with narrow ridges. At middle elevations, Douglas-fir and aspen parkland are common. At high elevations, spruce-fir and subalpine fir occur. Stratum 19a is a high-altitude forest of spruce, fir, and subalpine fir. Stratum 19b is a high-altitude forest of spruce, fir, and subalpine fir.

**20. Northern Basin and Range**  
Ecogion 20 is a vast and rugged landscape that is underlain by volcanic rocks. It is characterized by high plateaus, mountains, and valleys. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**21. Snake River Plain**  
The plains and low hills of the Snake River Plain are a vast, flat, and fertile landscape. It is underlain by a thick layer of loess. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

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The plains and low hills of the Snake River Plain are a vast, flat, and fertile landscape. It is underlain by a thick layer of loess. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**23. Central Basin and Range**  
Ecogion 23 is a vast and rugged landscape that is underlain by volcanic rocks. It is characterized by high plateaus, mountains, and valleys. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**24. Middle Rockies**  
The mountains of the Middle Rockies (24) are rugged and forested. They are underlain by volcanic rocks. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**25. Northern Rockies**  
The mountains of the Northern Rockies (25) are rugged and forested. They are underlain by volcanic rocks. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

**26. Idaho Batholith**  
The volcanic rocks of the Idaho Batholith (26) are rugged and forested. They are underlain by volcanic rocks. The Snake River is incised into the volcanic rocks of the Snake River Plain (12). Flow is interrupted by dams and diversions. Reservoirs and an extensive network of canals provide water to irrigated pastures and cropland as well as expanding cities, suburban areas, and industries.

