

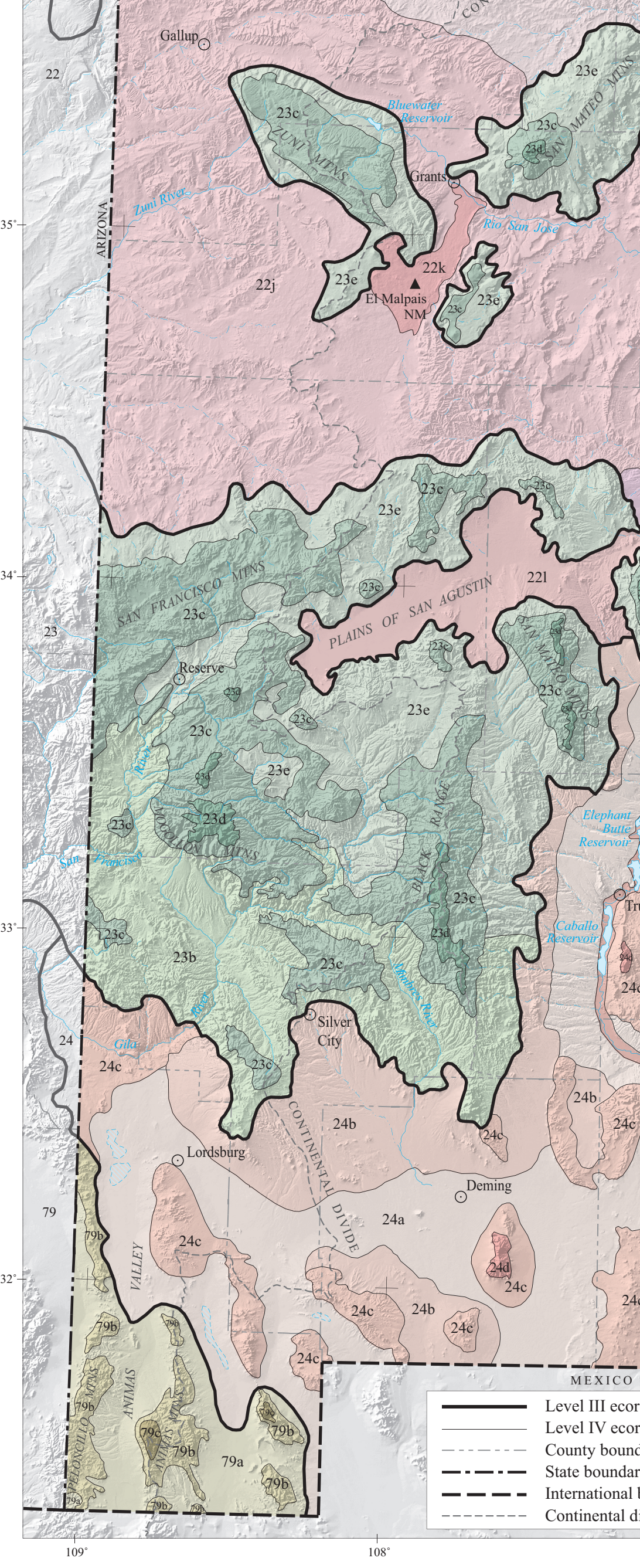
Ecoregions of New Mexico

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, monitoring, and management of ecosystems and ecosystem components. By recognizing the spatial differences and potentials of ecosystems, ecoregions stratify the environment by its probable response to disturbance (Boyce et al. 1999). These general purpose ecoregions are critical for structuring and implementing conservation management strategies across federal agencies, state agencies, and nongovernment organizations that are responsible for different types of resources within the same geographical areas (Omnemik and others, 2000).

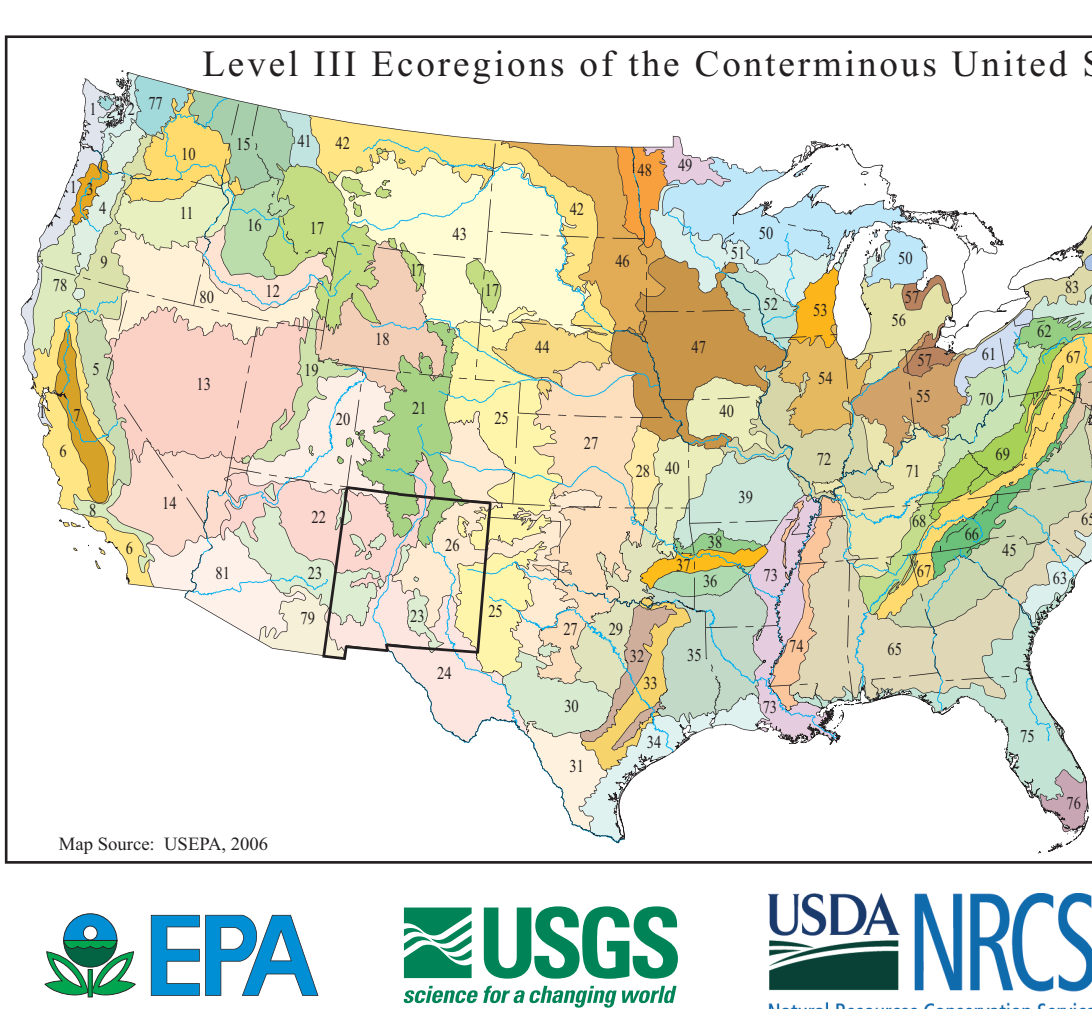
The New Mexico ecoregion map was compiled at a scale of 1:250,000. It revises and subdivides an earlier national ecoregion map that was originally compiled at a smaller scale (USFWS, 2006; Omnemik, 1987). The approach used to compile this map is based on the premise that ecological regions can be identified through the analysis of the spatial patterns and the composition of biotic and abiotic phenomena that will affect or reflect differences in ecosystem quality and integrity (Wiens, 1986; Omnemik, 1987, 1993). These phenomena include geology, physiography, vegetation, climate, soils, land use, wildlife, and hydrology. The relative importance of each characteristic varies from one ecological region to another across the hierarchical scale.

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 similar ecoregions within each region. Level III subdivides Level II ecoregions into working groups. Level III, the continental United States contains 104 ecoregions and the continental United States has 44 ecoregions (United States Environmental Protection Agency, 1999). Level IV is a further subdivision of Level III ecoregions. Explanations of the methods used to define the USEPA's ecoregions are given in Omnemik (1995, 2004), Omnemik and others (2000), and Callaway and others (1998).

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20 Colorado Plateaus	22 Arizona-New Mexico Plateau	24 Chihuahuan Deserts	26 Southwestern Tablelands
20b Salt Shale and Sedimentary Basins	22a San Luis Shrublands and Plains	24a Chihuahuan Basins and Playas	26d Sierran Canadian Breaks
20c Lava Lava Basins and Wetlands	22b Lava Lava Basins and Wetlands	24b Low Mountains and Bajadas	26e Piñon-Juniper Woodlands and Savannas
20d Arid Canyonlands	22c Taos Plateau	24c Chihuahuan Montane Woodlands	26f Upper Canadian Plateau
	22d Rio Grande Floodplain	24d Rio Grande Floodplain	26g Canadian Canyons
	22e Rio Grande Floodplain and Mesas	24e Gysiferous Dunes	26n Conchos/Pecos Plains
	22f Central New Mexico Plateaus and Mesas	24f Lava Lava Basins	26o Central New Mexico Plateaus
	22g Central New Mexico Plateaus		26p Playa/Lake Basins
	22h Lava Lava Basins		26q Southern New Mexico Dissected Plains
	22i High Plains		
	22j Arizona-New Mexico Mountains		
	22k Chihuahuan Desert Slopes		
	22l Madras Archipelago		
	22m Montane Conifer Forests		
	22n Arizona-New Mexico Subalpine Forests		
	22o Conifer Woodlands and Savannas		
	22p Rocky Mountain Subalpine Forests		



Levels and 55 Level IV ecoregions in New Mexico and many continue into ecologically similar parts of adjacent states (Griffith and others, 2004; Woods and others, 2005; Chapman and others, 2006).

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20. Colorado Plateaus

Rugged topography is typical of the Colorado Plateaus ecoregion. Canyons, mesas, plateaus, and mountains expose a long geological history of rock folding. Precipitous side-slope mark abrupt changes in vegetation. The region is characterized by low-lying juniper-pinyon juniper and Gambel oak woodlands that the Wyoming Basins (18) to the north. However, the region also has low-lying areas containing shrub-grasswood communities, and in Utah, Chihuahuan communities typical of other deserts. These communities are generally not found in the higher Arizona-New Mexico Plateau (22) where they are replaced by more common

20b The **Arid Shale Desert and Sedimentary Basins** ecoregion consists of nearly level valleys, benches, low rounded hills, and badlands. Rock outcrops occur; it is sparsely vegetated with mat subshrubs, low-growing salivars, and subshrub. Native grasses include creosote, blue grama, and cheatgrass. Forests are in deep and deepened, and are primarily piñon-juniper woodland than the adjacent Semiarid Benchlands and Canyonlands (20c).

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