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STATE GEOLOGISTS

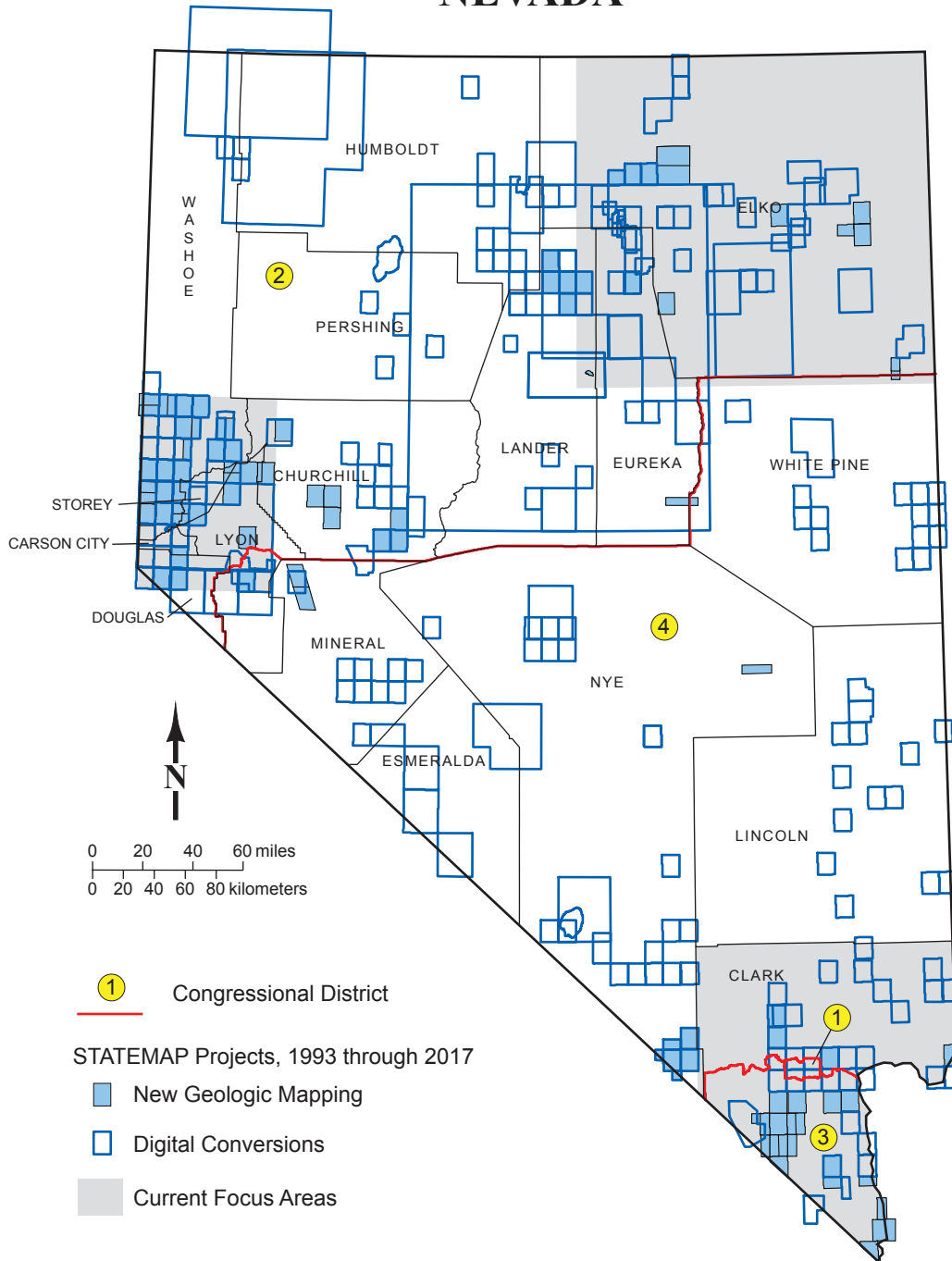


UNITED STATES
GEOLOGICAL SURVEY



National Cooperative Geologic Mapping Program

NEVADA



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SUMMARY OF STATEMAP GEOLOGIC MAPPING PROGRAM IN NEVADA

The STATEMAP part of the National Cooperative Geologic Mapping Program has helped Nevadans by significantly increasing the geographic coverage of detailed maps produced by the Nevada Bureau of Mines and Geology. Geologic mapping in the Las Vegas and Reno urban areas is focused primarily on issues related to growth and land management, including earthquake and flood hazards, land subsidence due to ground-water withdrawal, collapsing and expanding soils, landslides, ground-water protection, air quality, and raw materials for construction. Mapping in rural Nevada provides key information on the origin of its precious metal deposits, which make Nevada the leading gold producer in the U.S., and on the environmental and economic impacts of mining and climatic change. Planners, scientists, engineers, managers, policy makers, teachers, students, and members of the general public who are interested in the world around them use geologic maps. Only about 20% of Nevada's 1,980 7.5-minute quadrangles are adequately mapped with the detail that is needed for most applications.

Federal FY(s)	Projects <small>All maps are 1:24,000-scale unless otherwise noted.</small>	State Dollars	Federal Dollars	Total Project Dollars
1993	New Mapping: Olinghouse, Wadsworth	20,519	20,000	40,519
1994	New Mapping: Frenchman Mountain	21,746	20,000	41,746
1995	New Mapping: Bell Canyon, Bell Mountain	15,113	10,000	25,113
1996	New Mapping: E ½ Griffith Canyon, Mount Blitzen, Tule Springs Park	126,444	123,780	250,224
1997	New Mapping: Battle Mountain, Corn Creek Springs, Frenchman Mountain, McTarnahan Hill, Stony Point, S ¾ Toe Jam Mountain, Tuscarora	261,357	152,410	413,767
1998	New Mapping: Emigrant Pass, Fraser Flat, W ½ Moses Rock, Nelson SW, Pahrump	258,917	139,424	398,341
1999	New Mapping: Argenta, Bateman Spring, Davis Dam, Gardnerville, S ½ Tule Peak	175,175	115,500	290,675
2000	New Mapping: E ½ Dogskin Mountain, S ½ Horse Springs, Sixmile Spring, N ½ Tule Peak, S ½ Virginia City, Yerington Digital Conversions: Boulder Beach, Henderson, Hoover Dam, Las Vegas NE, Las Vegas NW, Las Vegas SE, Las Vegas SW, Reno, Reno NE, Reno NW, Verdi, Vista	135,520	111,210	246,730
2001	New Mapping: W ½ Dogskin Mountain, N ½ Horse Springs, Iceberg Canyon, S ½ Last Chance Range, Minden, Sutcliffe, N ½, Virginia City Digital Conversions: Blue Diamond NE, Blue Diamond SE, Carson City (100k), Corn Creek Springs, Mount Blitzen, Tule Springs Park, Tuscarora, Bedell Flat, Bettles Well, Buckskin Mountain, Carson City, Delvada Spring, Fire Mountain, Frazier Creek, Genoa, Glenbrook, Granite Peak, Job Peak, Little Horse Canyon, Marlette Lake, Mina, Mina (Quaternary), Mount Moriah, New Empire, Old Mans Canyon, Pirouette Mountain, Reveille, Robinson Summit, Spring Mountain, The Cove, Wonder Mountain	216,702	196,289	412,991
2002	New Mapping: E ½ Goodsprings, Jean, W ½ Nixon, NE ¼ Nopah Peak, W ½ Roach, Russells, State Line Pass, Stewart Valley Digital Conversions: Battle Mountain, Bullfrog Hills, Eugene Mountains, Frenchman Mountain, Grassy Mountain (plate 2), Fairview Peak (plate 1), Lamoille, Lime Mountain, Mount Davis, Stony Point, S ¾ Toe Jam Mountain	220,825	213,597	434,422
2003	New Mapping: Desert, Hidden Valley, W ½ McCullough Pass, Mount Manchester, E ½ Pah Rah Mountain, Roach Digital Conversions: Northern Carlin Trend (plate 1), Maggie Creek District (plate 2, 18k)	184,860	183,231	368,091
2004	New Mapping: Bird Spring, Fernley East, W ½ Flowery Peak, Hidden Valley, Goodsprings (Ivanpah Valley part), S ½ Seven Lakes Mountain, W ½ Spirit Mountain SE	203,225	171,583	374,808
2005	New Mapping: N ½ Fernley West, Flowery Peak, N ½ Jerritt Canyon, N ½ Searchlight, Seven Lakes Mountain	172,489	135,032	307,521
2006	New Mapping: Jerritt Canyon, Lahontan Mountains, Stockton Flat Well Digital Conversions: Beaver Peak, Big Bald Mountain, Callville Bay, Castle Mountains, Frasier Flat & W 1/2 Moses Rock, Frazier Creek, Government Wash, Hiller Mountains, Little Horse Canyon, Mormon Jack Pass, Mule Canyon, Nelson SW, Old Mans Canyon, Reveille, Third Butte East, Verdi Peak, Willow Creek Reservoir, Willow Creek Reservoir SE, Wonder Mountain	234,966	205,172	440,138
2007	New Mapping: S ½ Fernley West, N ½ Spirit Mountain NW Digital Conversions: Antler Peak, Arrow Canyon NW, Bedell Flat, Bell Canyon, Bell Mountain, Bettles Well, Bobs Flat, Brooks Spring, Buckskin Mountain, Camp Douglas, Carson City, Chief Mountain, Crater Flat, Derby Dam & Martin Canyon (48k), Diamond Springs (62.5k), Dogskin Mountain, Genoa, Glenbrook, Goldrun Creek, Indian Cove, Iron Point, Jake Creek Mountain, Marlette Lake, Meadview North, Mina, Mineral Hill (48k), Moho Mountain, Mount Rose NE, New Empire, Piper Peak (62.5k), Rhyolite Ridge (62.5k), Robinson Summit, Round Mountain, Rye Patch Reservoir South, South Lake Tahoe, State Line Peak, Steamboat, Tonopah-Lone Mountain-Klondike-N. Mud Lake (48k), Washoe City, Weiser Ridge	215,122	214,559	429,681
2008	New Mapping: W ½ Hazen, Grimes Point, S ½ Lower Walker River Digital Conversions: Bateman Spring, Cooper Peak, Deser Peak/Brady Area, Fire Mountain, Gardnerville, Horse Springs, Minden, Olinghouse, Santa Renia Fields, Sixmile Spring, Sutcliffe, Deadman Spring, Granite Peak, La Plata Canyon, Magruder Mountain (62.5k), Moapa West, Pahroc Spring SE, Pahrump, Pintail Bay, Pirouette Mountain, Riverside, Rose Valley, Whitney Pocket	267,245	193,616	460,861
2009	New Mapping: Cortez Mine Area (6k), N ½ Reno Urban Area, N ½ Lower Walker River Digital Conversions: Argenta, Delvada Spring, Flowery Peak, Golconda, Griffith Canyon, High Rock Lake, Job Peak, Last Chance Range, McTarnahan Hill, Nixon Area, Russells, Tule Peak, Wadsworth, Welches Canyon, Western Humboldt County, Yellow Hills East, Yellow Hills West, Yerington, Yerington District	298,948	208,268	507,216
2010	New Mapping: Reno Urban Area, Hazen, Bunejug Mountains Digital Conversions: Antler Peak, Belmont West, Bullfrog NE ¼ (62.5k), Bullfrog NW ¼ (62.5k), Cherry Creek and Egan Ranges, Ely, Galena Canyon, Goldyke, Hot Springs Peak, Jefferson, Manhattan, Nine Hill Paleovalley (12k), Northern Shoshone Range, Oak Spring Butte, Pah Rah Mtn East ¼, Riepetown, Rodeo Creek NE, Ruth, Skull Mountain, Specter Range NW, Valmy	317,806	228,665	546,471
2011	New Mapping: South Eureka Mining District, Desert Peak Digital Conversions: Austin, Belmont East, Bristol Well, Bull Run Mountains, Chalk Hills, Charles Sheldon Wildlife Refuge, Corcoran Canyon, Coyote Spring, Delamar 3 SE, Delamar Lake, Hunter, Izzenhood Spring, Lathrop Wells, Mable Mountain, Mina (Q), Mountain City NW ¼ (62.5k), Mountain City SW ¼ (62.5k), Mount Moriah, Pamlico, Peko Hills, Rattlesnake Flat, Rice Mountain, Scarecrow Peak, Schurz, Snow Gulch, Sodaville, Southern Sand Springs Range, Spring Mountain, Striped Hills, Table Mountain, The Cove, The Lehman Caves, White Horse Pass Area, Windy Peak, Yucca Lake	301,657	217,046	518,703
2012	New Mapping: Wabuska, West Gate Digital Conversions: Ackerman Canyon, Northern Adobe Range, Basalt, Blue Basin, Buffalo Mountain, Camp Desert Rock, Coal Mine Basin, North-Central Nevada (250k), Granite Mountain, Southern Independence Mountains, Kelly Creek, Middlegate Area, Miller Mountain & Columbus, Mount Callaghan, Nopah Peak NE ¼, Oasis Valley Basin & Vicinity, Oxley Peak Area, Plutonium Valley, Snowstorm Mountains & Vicinity, Southern Snake Mountain, Spencer Hot Springs, Stewart Valley NE ¼, Toquima Caldera Complex, Unionville	257,065	184,196	441,261
2013	New Mapping: Grant Range, Mount Rose Digital Conversions: Farrier, Frenchie Creek (62.5k), Lee (62.5k), Ruby Mountains (125k), Spruce Mountain 4, Elko Hills, Windermere Hills (48k)	123,115	123,115	246,230
2014	New Mapping: Sloan, Pequop Summit, Kinsley Mountains South (12k) Digital Conversions: Black Hills, Boulder City SE, Emigrant Pass, Goodsprings District, Mercury, Southern Sheep Range, Virgin Peak, Whitney Pocket	158,751	158,751	317,502
2015	New Mapping: Boulder City, Herder Creek, S ½ Mount Rose NW Digital Conversions: W ½ Fourth of July Mountain, Northern East Humboldt Range, Southwestern East Humboldt Range, Valley of Fire East, Welcome	170,067	170,067	340,134
2016	New Mapping: Boulder City NW, N ½ Independence Valley NW, Kinsley Mountains North (12k) Digital Conversions: Caetano Caldera (75k), Humboldt Peak, IXL Canyon, McCoy Mining District (12k), North Peak	167,189	167,189	334,378
2017	New Mapping: N ½ Mount Rose NW, Independence Valley NE, Ravens Nest Digital Conversions: Frenchman Mountain, Henderson, Lamoille, Mount Davis, Mount Siegel (62.5k), Yerington, (62.5k), Wellington (62.5k)	173,486	173,486	346,972
August 2017		\$4,698,309	\$3,836,186	\$8,534,495