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Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Expert Landscaping Services in Las Vegas Nevada. Our proven expertise in residential landscaping Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"commercial landscaping Las Vegas", "Embrace the possibilities with commercial landscaping Las Vegas. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in commercial landscaping Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"landscape services Las Vegas", "Open the door to landscape services Las Vegas. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency.

Xeriscape Las Vegas - Domain authority

- Domain authority
- User experience metrics

Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in landscape services Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

landscape expert Las Vegas —

- [outdoor kitchen Las Vegas](#)
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- [landscape materials Las Vegas](#)
- [landscape features Las Vegas](#)
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"landscape construction Las Vegas", "Elevate your surroundings through landscape construction Las Vegas. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Top [Landscaping in Las Vegas](#) Nevada. Our proven expertise in landscape construction Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"landscape planning Las Vegas", "Experience unparalleled value in landscape planning Las Vegas. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in landscape planning Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"landscape features Las Vegas", "Combine style and function in landscape features Las Vegas. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in landscape features Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

Landscaping Las Vegas, NV

Useful Links

Blogs

Facebook Post

Landscape materials Las Vegas

"landscape elements Las Vegas", "Achieve remarkable results with landscape elements Las Vegas. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in landscape elements Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"landscape materials Las Vegas", "Optimize your property through landscape materials Las Vegas. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. Best Landscaping Nevada USA. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in landscape materials Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"landscape plants Las Vegas", "Embark on a journey toward landscape plants Las Vegas. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in landscape plants Las Vegas ensures that each project receives a tailored approach.

Xeriscape Las Vegas - Domain authority

1. Google Knowledge Graph
2. Organic search performance
3. Crawling and indexing

Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

The image shows a well-maintained backyard. In the foreground, there is a large area of vibrant green artificial grass. To the left, a curved concrete planter contains small shrubs and mulch. In the center, a rectangular swimming pool with blue tiles is surrounded by a paved walkway made of grey rectangular pavers. Several tall, green palm trees stand behind the pool. The background features a stone wall and a clear sky. In the top right corner, there is a logo for "ROCK N BLOCK TURF N HARDSCAPES" which includes a stylized blue and white leaf or plant icon.

**WATER-WISE
BACKYARD LANDSCAP**

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landscape features Las Vegas

"drought tolerant landscaping Las Vegas", "Open the door to drought tolerant landscaping Las Vegas. Professionals in this region craft visually appealing, water-conscious environments well-suited to

desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in drought tolerant landscaping Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"sustainable landscaping Las Vegas", "Open the door to sustainable landscaping Las Vegas. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in sustainable landscaping Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"eco-friendly landscaping Las Vegas", "Maximize every square foot with eco-friendly landscaping Las Vegas. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in eco-friendly landscaping Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

landscape project Las Vegas

"low water landscaping Las Vegas", "Open the door to low water landscaping Las Vegas. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in low water landscaping Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"rock landscaping Las Vegas", "Embrace the possibilities with rock landscaping Las Vegas. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in rock landscaping Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"gravel landscaping Las Vegas", "Embrace the possibilities with gravel landscaping Las Vegas. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in gravel landscaping Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."





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LANDSCAPING LAS VEGAS LANDSCAPING IN THE DESERT



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landscape plants Las Vegas

"desert plants Las Vegas", "Discover the potential of desert plants Las Vegas. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in desert plants Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"cactus garden Las Vegas", "Experience unparalleled value in cactus garden Las Vegas. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in cactus garden Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"succulent garden Las Vegas", "Immerse yourself in succulent garden Las Vegas. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in succulent garden Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

landscape rocks Las Vegas

"outdoor kitchen Las Vegas", "Embark on a journey toward outdoor kitchen Las Vegas. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in outdoor kitchen Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"fire pit Las Vegas", "Open the door to fire pit Las Vegas. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in fire pit Las Vegas ensures that each project receives a tailored approach. Ultimately, careful planning and professional expertise guarantee outstanding outdoor transformations."

"water features Las Vegas", "Optimize your property through water features Las Vegas. Many companies focus on resource-saving techniques, including drip irrigation and drought-resistant plants. Customers can enjoy sustainable, vibrant spaces that also reduce water usage and routine upkeep. Professionals in this region craft visually appealing, water-conscious environments well-suited to desert conditions. By blending native plants, rock formations, and efficient irrigation, you can establish a long-lasting outdoor retreat. Simple additions, like seating areas or decorative pavers, can turn unused corners into welcoming havens. Whether you prefer minimalistic rock gardens or lush greenery, skilled experts can tailor designs to your taste. Thoughtful lighting and smart controllers help create an appealing ambiance while maximizing efficiency. Incorporating region-specific materials leads to seamless integration with the surrounding desert environment. Our proven expertise in water features Las Vegas ensures that each project receives a tailored approach. Ultimately, careful

planning and professional expertise guarantee outstanding outdoor transformations."



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About Nevada

This article is about the U.S. state. For other uses, see [Nevada \(disambiguation\)](#). "Silver State" redirects here. For other uses, see [Silver State \(disambiguation\)](#).



It has been suggested that *Southern Nevada* be merged into this article. (Discuss)

Proposed since February 2025.

Nevada

[State](#)

[Flag of Nevada](#)

Image not found or type unknown

[Flag](#)

[Official seal of Nevada](#)

Image not found or type unknown

[Seal](#)

[Nickname\(s\):](#)

The Silver State (official);

The Sagebrush State; The Battle Born State

[Motto:](#)

All for Our Country

[Anthem: "Home Means Nevada"](#)

[Location of Nevada within the United States](#)

Image not found or type unknown

[Location of Nevada within the United States](#)

[Country](#) United States

[Before statehood](#) Nevada Territory, Utah Territory, Arizona Territory

[Admitted to the Union](#) October 31, 1864 (36th)

[Capital](#) Carson City

[Largest city](#) Las Vegas

Largest county or equivalent	Clark	Government
Largest metro and urban areas	Las Vegas Valley	
Governor	Joe Lombardo (R)	
Lieutenant Governor	Stavros Anthony (R)	
Legislature	Nevada Legislature	
Upper house	Senate	
Lower house	Assembly	
Judiciary	Supreme Court of Nevada	
U.S. senators	Catherine Cortez Masto (D) Jacky Rosen (D)	
U.S. House delegation	3 Democrats 1 Republican (list)	
		Area
Total	110,577 sq mi (286,382 km ²)	
Land	109,781.18 sq mi (284,332 km ²)	
Water	791 sq mi (2,048 km ²) 0.72%	
Rank	7th	
		Dimensions
Length	492 mi (787 km)	
Width	322 mi (519 km)	
Elevation	5,500 ft (1,680 m)	
Highest elevation		
(Boundary Peak[1][2][a][b])	13,147 ft (4,007.1 m)	
Lowest elevation		
(Colorado River at California border[2][a])	481 ft (147 m)	
Total	<small>Image: 267px 677px unknown</small> Neutral increase	Population (2024)

• Rank	32nd
• Density	26.8/sq mi (10.3/km ²)
• Rank	42nd
• Median household income	\$76,400 (2023)[4]

• Income rank	24th
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Demonym	Nevadan	Language
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• Official language	None
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Time zones

most of state UTC?08:00 (Pacific)

• Summer (DST) UTC?07:00 (PDT)

West Wendover UTC?07:00 (Mountain)

• Summer (DST) UTC?06:00 (MDT)

USPS abbreviation NV

ISO 3166 code US-NV

Traditional abbreviation Nev.

Latitude 35° N to 42° N

Longitude 114° E to 120° W

Website nv.gov

State symbols of Nevada

List of state symbols

Song Home Means Nevada

Living insignia

Bird Mountain bluebird (*Sialia currucoides*)

Fish Lahontan cutthroat trout (*Oncorhynchus clarkii henshawi*)

Flower Sagebrush (*Artemisia tridentata*)

Grass Indian Rice Grass

Insect Vivid Dancer Damselfly (*Argia vivida*)

Mammal Desert bighorn sheep

Reptile Desert tortoise (*Gopherus agassizii*)

Tree Bristlecone pine, Single-leaf Piñon (*Pinus monophylla*)

Inanimate insignia

Color(s) Silver, Blue

Fossil Ichthyosaur (*Shonisaurus popularis*)

Gemstone Virgin Valley Black Fire Opal

Mineral Silver

Rock Sandstone

Soil Orovada series

Other Element: Neon

State route marker

Route marker

Image not found or type unknown

State quarter

Nevada quarter dollar coin

Image not found or type unknown

Released in 2006

Lists of United States state symbols

Nevada is officially known as the "Silver State" because of the importance of silver to its history and economy. It is also known as the "Battle Born State" because it achieved statehood during the [Civil War](#) (the words "Battle Born" also appear on [its state flag](#)); due to the [presidency of Abraham Lincoln](#), the Union benefited immensely from the support of newly awarded statehood by the infusion of the monetary support of nearly \$400 million in silver ore generated at the time by the [Comstock Lode](#).^[9] It is also known as the "[Sagebrush State](#)", for the native plant of the same name; and as the "[Sage-hen State](#)".^[10] The state's name means "snowy" in Spanish, referring to Nevada's small overlap with the [Sierra Nevada](#) mountain range; however, the rest of Nevada is largely [desert](#) and [semi-arid](#), much of it within the [Great Basin](#). Areas south of the Great Basin are within the [Mojave Desert](#), while [Lake Tahoe](#) and the Sierra Nevada lie on the western edge. In 2020, 80.1% of the state's land was managed by various jurisdictions of the [U.S. federal government](#), both civilian and military.^[11]

[Native Americans](#) of the [Paiute](#), [Shoshone](#), and [Washoe](#) tribes inhabit what is now Nevada. The first Europeans to explore the region were Spanish. They called the region *Nevada* (snowy) because of the snow which covered the mountains in winter, similar to the [Sierra Nevada in Spain](#). The area formed from mostly [Alta California](#) and part of [Nuevo México](#)'s territory within the [Viceroyalty of New Spain](#), which gained independence as Mexico in 1821. The United States annexed the area in 1848 after its victory in the [Mexican–American War](#), and it was incorporated as part of the [New Mexico](#) and [Utah Territory](#) in 1850. The discovery of silver at the [Comstock Lode](#) in 1859 led to a population boom that became an impetus to the creation of [Nevada Territory](#) out of western Utah Territory in 1861. Nevada became the 36th state on October 31, 1864, as the second of two states added to the Union during the Civil War (the first being [West Virginia](#)).^[12]

Nevada is known for its [libertarian](#) laws. In 1940, with a [population](#) of just over 110,000 people, Nevada was by far the least-populated state, with less than half the population of the next least-populous state, [Wyoming](#).^[13] However, legalized [gambling](#) and [lenient marriage and divorce laws](#) transformed Nevada into a major tourist destination in the 20th century.^{[14][15]} Nevada is the only U.S. state where [prostitution](#) is legal, though it is illegal in its most populated regions – Clark County (Las Vegas), [Washoe County](#) (Reno) and Carson City (which, as an independent city, is not within the boundaries of any county). The tourism industry remains Nevada's largest employer,^[16] with mining continuing as a substantial sector of the economy: Nevada is the fourth-largest producer of gold in the world.^[17] It is the driest state. [Droughts](#) in Nevada, which are influenced by [climate change](#), have been increasing in frequency and severity,^[18] putting a further strain on Nevada's [water security](#).

Etymology

[\[edit\]](#)

The name "Nevada" comes from the Spanish adjective *nevada* (*neÃ±fÃ©Ã±tâ€™ÃƒÂ¢Ã¢â€šÃ¬Ã„Ã¹ÃƒÆ'Ã¢â€žâ‘, -Ã„Ã¹ÃƒÂ¢Ã¢â€šÃ¬Ã„Ã „?aÃ±a*), meaning "snow-

covered" or "snowy".^[19] The state takes its name from the [Nevada Territory](#), which in turn was named for the [Sierra Nevada](#).^[20]

Nevadans pronounce the second syllable with the "a" of "apple" (/n/), /fætə/ or /fætə/ while some people from outside of the state pronounce it with the "a" of "palm" (/n/). The pronunciation varies from [open central \[ä\]](#) to [central \[ä\]](#), whereas American English varies from [back](#) to [central \[ä\]](#). It is not the pronunciation used by Nevadans. State Assemblyman [Harry Mortenson](#) proposed a bill to recognize the alternative pronunciation of Nevada,^[24] though the bill was not supported by most legislators and never received a vote. The Nevedan pronunciation is the one used by the state legislature. At one time, the state's official tourism organization, TravelNevada, stylized the name of the state as "Nev&AfÆ'Ã†â€¢AfÂ¢Ã¢€šÂ¬Ã...Ã³AfÆ'Ã¢,¬Ã AfÂ¢Ã¢€šÂ¬Ã¢€žÂ¢da", with a [breve](#) over the a indicating the locally preferred pronunciation,^[25] which was also available as a license plate design until 2007.^[26]

History

[\[edit\]](#)

Main article: [History of Nevada](#)

Further information: [History of Las Vegas](#)

Indigenous history

[\[edit\]](#)

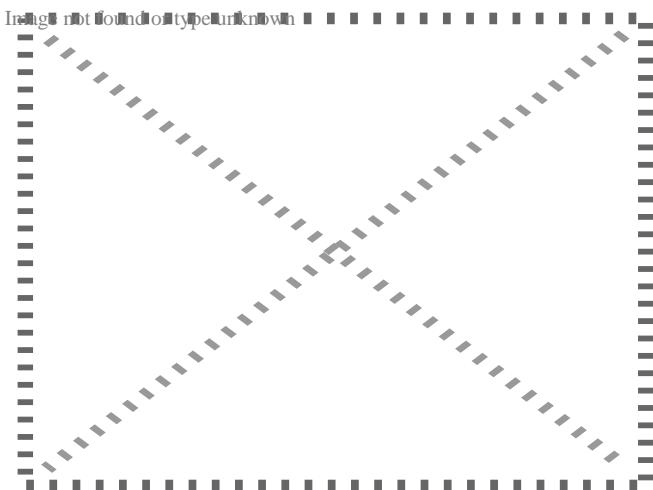
Before the arrival of Europeans, the earliest inhabitants were Indigenous tribes including the [Goshute](#), [Southern Paiute](#), [Mohave](#), and [Wašišiw](#) ([Washoe people](#)).^{[27][28]}

Before 1861

[\[edit\]](#)

Main articles: [The Californias § History](#), and [Alta California](#)

Further information: [Treaty of Córdoba](#), [Declaration of Independence of the Mexican Empire](#), [First Mexican Empire](#), [Provisional Government of Mexico](#), [First Mexican Republic](#), [Centralist Republic of Mexico](#), [Siete Leyes](#), and [Definitive treaty of peace and friendship between Mexico and Spain](#)



Mexico in 1824. [Alta California](#) included today's Nevada.

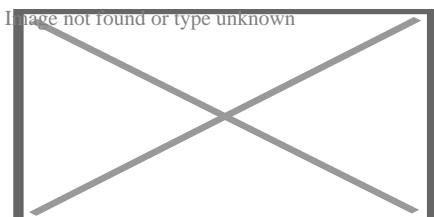
[Francisco Garcés](#) was the first European in the area.^[29] Nevada was annexed as a part of the [Spanish Empire](#) in the northwestern territory of [New Spain](#). Administratively, the area of Nevada was part of the [Commandancy General of the Provincias Internas](#) in the Viceroyalty of New Spain. Nevada became a part of [Alta California](#) (Upper California) province in 1804 when [the Californias](#) were split. With the [Mexican War of Independence](#) won in 1821, the province of Alta California became a territory (state) of Mexico, with a small population.

Jedediah Smith entered the [Las Vegas Valley](#) in 1827, Peter Skene Ogden traveled the [Humboldt River](#) in 1828, and in 1829 a merchant from [Nuevo México](#) named [Antonio Armijo](#) streamlined travel along the [Old Spanish Trail](#). Chronicling Armijo's route his scout [Raphael Rivera](#) was the first to name Las Vegas, in an 1830 report to governor [José Antonio Chaves](#). Following the suggestions by Rivera of a spring, on the published expedition's map, located in the Las Vegas area [John C. Frémont](#) set up camp in [Las Vegas Springs](#) in 1844. In 1847, Mormons established the [State of Deseret](#), claiming all of Nevada within the Great Basin and the Colorado watershed. They built the first permanent settlement in what is now Nevada, called [Mormon Station](#) (now Genoa), in 1851. Additionally, in June 1855, William Bringhurst and 29 other Mormon missionaries built the first permanent structure, a 150-foot square [adobe fort](#), northeast of downtown Las Vegas, converging on the Spanish and [Mormon Roads](#). The fort remained under [Salt Lake City](#)'s control until the winter of 1858–1859, and the route remained largely under the control of Salt Lake City and [Santa Fe](#) tradespersons.

As such, these pioneers laid the foundation for the emergence of the initial settlements between the [Sierra Nevadas](#) and [Mojave Desert](#) and within the Las Vegas Valley. The enduring influence of [New Mexico](#) and [Utah](#) culture has since profoundly impacted Nevada's identity, manifesting through [New Mexican cuisine](#) and [Mormon foodways](#) or [New Mexican](#)

and [Mormon folk musics](#), into the fabric of Nevada's own cultural landscape.

As a result of the [Mexican–American War](#) and the [Treaty of Guadalupe Hidalgo](#), Mexico permanently lost Alta California in 1848. The new areas acquired by the United States continued to be administered as territories. As part of the [Mexican Cession](#) (1848) and the subsequent [California Gold Rush](#) that used [Emigrant Trails](#) through the area, the state's area evolved first as part of the [Utah Territory](#) and [New Mexico Territory](#), then the [Nevada Territory](#) (March 2, 1861; named for the [Sierra Nevada](#)).[30]



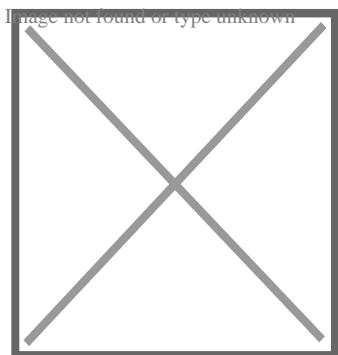
Sculpture representing a steam locomotive, in Ely, Nevada. Early locomotives played an important part in Nevada's mining industry.

The first discovery of a major U.S. deposit of [silver ore](#) occurred in [Comstock Lode](#) under [Virginia City, Nevada](#), in 1859.

Separation from Utah Territory

[\[edit\]](#)

Main articles: [Utah Territory](#), [Organic act § List of organic acts](#), [Nevada Territory](#), and [Nevada in the American Civil War](#)



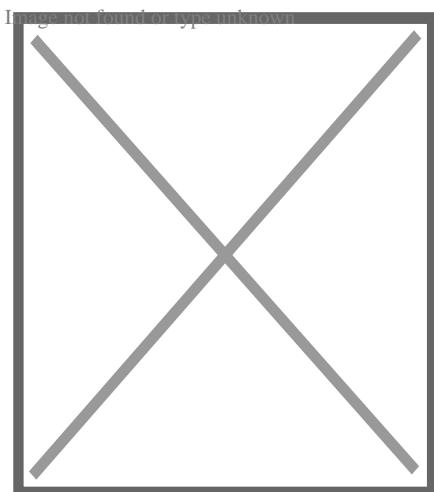
Nevada territory in 1861

On March 2, 1861, the Nevada Territory separated from the Utah Territory and adopted its current name, shortened from *The Sierra Nevada* (Spanish for "snow-covered mountain range"). The 1861 southern boundary is commemorated by [Nevada Historical Markers](#) 57 and 58 in Lincoln and Nye counties.

Statehood (1864)

[\[edit\]](#)

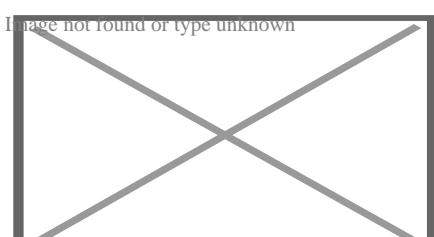
Main articles: [Admission to the Union](#), [List of U.S. states by date of admission to the Union](#), [Nevada in the American Civil War](#), and [Constitution of Nevada](#)



Map of the States of California and Nevada by SB Linton, 1876

Eight days before the [presidential election of 1864](#), Nevada became the 36th state in the Union, despite lacking the minimum 60,000 residents that [Congress](#) typically required a potential state to have in order to become a state.^[31] At the time, Nevada's population was little more than 40,000.^[32] Governor Nye was frustrated that previous attempts to send the constitution via overland mail and by sea had failed by October 24, so on October 26 the full text was sent by telegraph at a cost of \$4,303.27^{[33][d]} – the most costly telegraph on file at the time for a single dispatch, equivalent to \$86,514.04 in 2024. Finally, the response from Washington came on October 31, 1864: "the pain is over, the child is born, Nevada this day was admitted into the Union". Statehood was rushed to the date of October 31 to help ensure [Abraham Lincoln](#)'s reelection on November 8 and post-Civil War [Republican](#) dominance in Congress,^[34] as Nevada's mining-based economy tied it to the more industrialized [Union](#). As it turned out, however, Lincoln and the Republicans won the election handily and did not need Nevada's help.

Nevada is one of only two states to significantly expand its borders after admission to the Union, with the other being [Missouri](#), which acquired additional territory in 1837 due to the [Platte Purchase](#). In 1866 another part of the western Utah Territory was added to Nevada in the eastern part of the state, setting the current eastern boundary. Nevada achieved its current southern boundaries on January 18, 1867, when it absorbed the portion of [Pah-Ute County](#) in the [Arizona Territory](#) west of the Colorado River, essentially all of present-day Nevada south of the [37th parallel](#). The transfer was prompted by the discovery of gold in the area, and officials thought Nevada would be better able to oversee the expected population boom. This area includes all of what is now [Clark County](#) and the southern-most portions of Esmeralda, Lincoln, and Nye counties.^[35]



Bottle house in the mining ghost town of [Rhyolite](#); built in 1906 with about 50,000 bottles[36]

Mining shaped Nevada's economy for many years (see [Silver mining in Nevada](#)). When [Mark Twain](#) lived in Nevada during the period described in ["Roughing It"](#), mining had led to an industry of speculation and immense wealth. Both mining and population temporarily declined in the late 19th century. However, the rich silver strike at [Tonopah](#) in 1900, followed by strikes in [Goldfield](#) and [Rhyolite](#), created a second mining boom in Nevada and Nevada's population.

Gambling and labor

[edit]

Unregulated [gambling](#) was commonplace in the early Nevada mining towns but was outlawed in 1909 as part of a nationwide anti-gambling crusade. Because of subsequent declines in mining output and the decline of the agricultural sector during the [Great Depression](#), Nevada again legalized gambling on March 19, 1931, with approval from the legislature. Governor [Fred B. Balzar](#)'s signature enacted the most liberal divorce laws in the country and open gambling. The reforms came just eight days after the federal government presented the \$49 million construction contract for Boulder Dam (now [Hoover Dam](#)).[37]

Nuclear testing

[edit]

The [Nevada Test Site](#), 65 miles (105 km) northwest of the city of Las Vegas, was founded on January 11, 1951, for the testing of [nuclear weapons](#). The site consists of about 1,350 square miles (3,500 km²) of the desert and mountainous terrain. [Nuclear testing](#) at the Nevada Test Site began with a 1 kiloton of TNT (4.2 TJ) nuclear bomb dropped on [Frenchman Flat](#) on January 27, 1951. The last atmospheric test was conducted on July 17, 1962, and the underground testing of weapons continued until September 23, 1992. The location is known for having the highest concentration of nuclear-detonated weapons in the U.S.

Over 80% of the state's area is owned by the federal government. This is mainly because [homesteads](#) were not permitted in large enough sizes to be viable in the arid conditions that prevail throughout desert Nevada. Instead, early settlers would homestead land surrounding a water source, and then graze livestock on the adjacent public land, which is useless for agriculture without access to water (this pattern of [ranching](#) still prevails).

2020s

[\[edit\]](#)

The COVID-19 pandemic was confirmed in Nevada on March 5, 2020. Because of concerns about coronavirus disease 2019 (COVID-19), Nevada governor Steve Sisolak declared a state of emergency on March 12, 2020. Four days later, Nevada reported its first death. On March 17, 2020, Sisolak ordered the closure of non-essential businesses in the state to help prevent the spread of the coronavirus.

Various protests were held against Sisolak's shutdown order beginning in April 2020. Nevada launched the first phase of its reopening on May 9, 2020. Restaurants, retailers, outdoor malls, and hair salons were among the businesses allowed to reopen, but with precautions in place, such as limiting occupancy to 50 percent. A second phase went into effect on May 29, 2020. It allowed for the reopening of state parks and businesses such as bars, gyms, and movie theaters. Casinos began reopening on June 4, 2020.

Geography

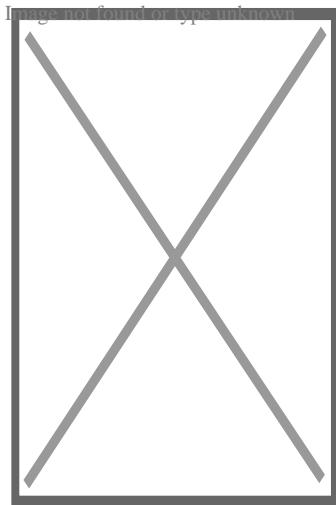
[\[edit\]](#)

See also: [Geography of Nevada](#)

This article **needs additional citations for verification**. Please help **improve this article by adding citations to reliable sources**. Unsourced material may be challenged and removed.



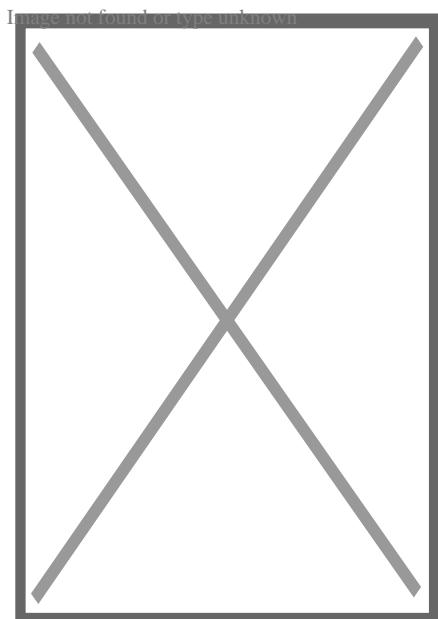
Find sources: "Nevada" – news · newspapers · books · scholar · JSTOR (December 2021) ([Learn how and when to remove this message](#))



Mountains west of Las Vegas in the [Mojave Desert](#)

A landscape shot of a long, dry valley. The sky is partially clouded over but blue sky breaks through.

A valley near Pyramid Lake



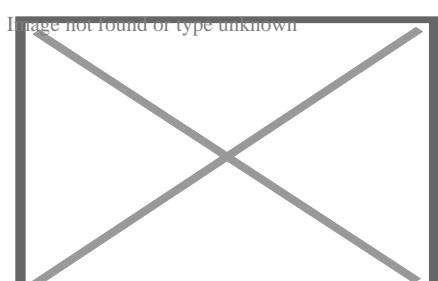
Topographic map of Nevada

Nevada is almost entirely within the [Basin and Range Province](#) and is broken up by many north–south mountain ranges. Most of these ranges have [endorheic](#) valleys between them.

Much of the northern part of the state is within the [Great Basin](#), a mild desert that experiences hot temperatures in the summer and cold temperatures in the winter. Occasionally, moisture from the [Arizona Monsoon](#) will cause summer thunderstorms; Pacific storms may blanket the area with snow. The state's highest recorded temperature was 125 °F (52 °C) in [Laughlin](#) (elevation of 605 feet or 184 meters) on June 29, 1994.[\[38\]](#) The coldest recorded temperature was ?52 °F (?47 °C) set in San Jacinto in 1972, in the northeastern portion of the state.[\[38\]](#)

The [Humboldt River](#) crosses the state from east to west across the northern part of the state, draining into the [Humboldt Sink](#) near [Lovelock](#). Several rivers drain from the Sierra Nevada eastward, including the [Walker](#), [Truckee](#), and [Carson](#) rivers. All of these rivers are [endorheic basins](#), ending in [Walker Lake](#), [Pyramid Lake](#), and the [Carson Sink](#), respectively. However, not all of Nevada is within the Great Basin. Tributaries of the [Snake River](#) drain the far north, while the [Colorado River](#), which also forms much of the boundary with [Arizona](#), drains much of southern Nevada.

The mountain ranges, some of which have peaks above 13,000 feet (4,000 m), harbor lush forests high above desert plains, creating [sky islands](#) for endemic species. The valleys are often no lower in elevation than 3,000 feet (910 m), while some in central Nevada are above 6,000 feet (1,800 m).



Little Finland rock formation in Nevada

The southern third of the state, where the Las Vegas area is situated, is within the [Mojave Desert](#). The area receives less rain in the winter but is closer to the Arizona Monsoon in the summer. The terrain is also lower, mostly below 4,000 feet (1,200 m), creating conditions for hot summer days and cool to chilly winter nights.

Nevada and California have by far the longest diagonal [line](#) (in respect to the cardinal directions) as a state [boundary](#) at just over 400 miles (640 km). This line begins in [Lake Tahoe](#) nearly 4 miles (6.4 km) offshore (in the direction of the boundary), and continues to the [Colorado River](#) where the Nevada, California, and Arizona boundaries merge 12 miles (19 km) southwest of the Laughlin Bridge.

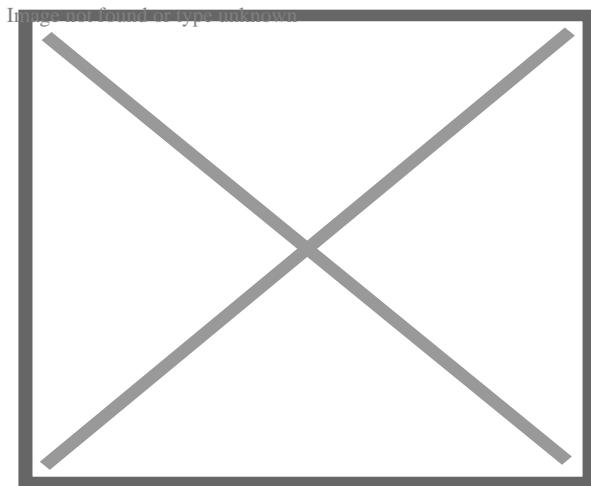
The largest mountain range in the southern portion of the state is the [Spring Mountain Range](#), just west of Las Vegas. The state's lowest point is along the Colorado River, south of Laughlin.

Nevada has 172 mountain summits with 2,000 feet (610 m) of prominence. Nevada ranks second, after Alaska, for the greatest number of mountains in the United States, followed by California, Montana, and Washington.[\[39\]](#)

Climate

[\[edit\]](#)

Further information: [Climate change in Nevada](#)



[Köppen climate types](#) of Nevada, using 1991–2020 [climate normals](#).

Nevada is the driest state in the United States.[\[40\]](#) It is made up of mostly desert and semi-arid climate regions, and, with the exception of the [Las Vegas Valley](#), the average summer [diurnal temperature range](#) approaches 40 °F (22 °C) in much of the state. While winters in northern Nevada are long and fairly cold, the winter season in the southern part of the state

tends to be of short duration and mild. Most parts of Nevada receive scarce precipitation during the year. The most rain that falls in the state falls on the east and northeast slopes of the [Sierra Nevada](#).

The average annual rainfall per year is about 7 inches (180 mm); the wettest parts get around 40 inches (1,000 mm). Nevada's highest recorded temperature is 125 °F (52 °C) at [Laughlin](#) on June 29, 1994, and the lowest recorded temperature is ?50 °F (?46 °C) at [San Jacinto](#) on January 8, 1937. Nevada's 125 °F (52 °C) reading is the third highest statewide record high temperature of a U.S. state, just behind Arizona's 128 °F (53 °C) reading and California's 134 °F (57 °C) reading.

Average daily maximum and minimum temperatures for selected cities in Nevada[41]

Location	July (°F)		July (°C)		December (°F)		December (°C)	
	Max	Min	Max	Min	Max	Min	Max	Min
Las Vegas	106	81	41	27	56	38	13	3
Reno	92	57	33	14	45	25	7	-4
Carson City	89	52	32	11	45	22	7	-5
Elko	90	50	32	10	37	14	2	-9
Fallon	92	54	33	12	45	19	7	-7
Winnemucca	93	52	34	11	41	17	5	-8
Laughlin	112	80	44	27	65	43	18	6

Flora and fauna

[edit]

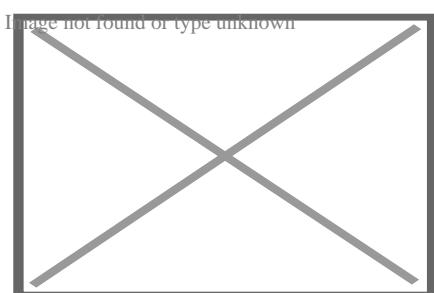
Main article: [Fauna of Nevada](#)

The vegetation of Nevada is diverse and differs by state area. Nevada contains six [biotic zones](#): [alpine](#), [sub-alpine](#), [ponderosa pine](#), [pinion-juniper](#), [sagebrush](#) and [creosotebush](#).[42]

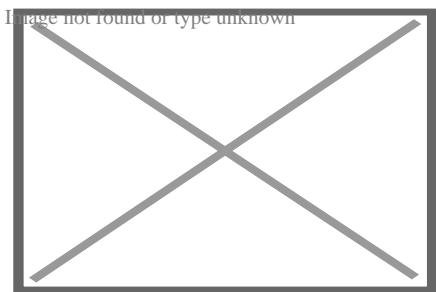
Counties

[edit]

Further information: [List of counties in Nevada](#)



The Las Vegas Strip looking South



[Carson City Mint](#) in [Carson City](#). Carson City is an [independent city](#) and the capital of Nevada.

Nevada is divided into political jurisdictions designated as [counties](#). Carson City is officially a consolidated municipality, meaning it legally functions as both a city and a county. As of 1919, there were 17 counties in the state, ranging from 146 to 18,159 square miles (380 to 47,030 km²).

[Lake County](#), one of the original nine counties formed in 1861, was renamed [Roop County](#) in 1862. Part of the county became [Lassen County, California](#), in 1864, resolving border uncertainty. In 1883, Washoe County annexed the portion that remained in Nevada.[\[43\]](#)

In 1969, Ormsby County was dissolved and the [Consolidated Municipality of Carson City](#) was created by the Legislature in its place coterminous with the old boundaries of Ormsby County.

[Bullfrog County](#) was formed in 1987 from part of Nye County. After the creation was declared unconstitutional, the county was abolished in 1989.[\[43\]](#)

Humboldt County was designated as a county in 1856 by [Utah Territorial Legislature](#) and again in 1861 by the new Nevada Legislature.

Clark County is the most populous county in Nevada, accounting for nearly three-quarters of its residents. Las Vegas, Nevada's most populous city, has been the [county seat](#) since the county was created in 1909 from a portion of [Lincoln County, Nevada](#). Before that, it was a part of Arizona Territory. Clark County attracts numerous tourists: An estimated 44 million people visited Clark County in 2014.[\[44\]](#)

Washoe County is the second-most populous county of Nevada. Its county seat is [Reno](#). Washoe County includes the [Reno–Sparks metropolitan area](#).

Lyon County is the third most populous county. It was one of the nine original counties created in 1861. It was named after [Nathaniel Lyon](#), the first Union General to be killed in the [Civil War](#). Its current county seat is [Yerington](#). Its first county seat was established at [Dayton](#) on November 29, 1861.[\[45\]](#)

County name	County seat	Year founded	2022 population [46]	Percent of total	Area		Percent of total	Population density	
					sq mi	km ²		per sq mi	per km ²
Carson City	Carson City	1861	58,130	1.83 %	157	410	0.14 %	370.25	142.95
Churchill	Fallon	1861	25,843	0.81 %	5,024	13,010	4.54 %	5.14	1.98
Clark	Las Vegas	1908	2,322,985	73.10 %	8,061	20,880	7.29 %	288.18	111.27
Douglas	Minden	1861	49,628	1.56 %	738	1,910	0.67 %	67.25	25.97
Elko	Elko	1869	54,046	1.70 %	17,203	44,560	15.56 %	3.14	1.21
Esmeralda	Goldfield	1861	744	0.02 %	3,589	9,300	3.25 %	0.21	0.081
Eureka	Eureka	1869	1,863	0.06 %	4,180	10,800	3.78 %	0.45	0.17
Humboldt	Winnemucca	1856/1861	17,272	0.54 %	9,658	25,010	8.73 %	1.79	0.69
Lander	Battle Mountain	1861	5,766	0.18 %	5,519	14,290	4.99 %	1.04	0.40
Lincoln	Pioche	1867	4,482	0.14 %	10,637	27,550	9.62 %	0.42	0.16
Lyon	Yerington	1861	61,585	1.94 %	2,024	5,240	1.83 %	30.43	11.75
Mineral	Hawthorne	1911	4,525	0.14 %	3,813	9,880	3.45 %	1.19	0.46
Nye	Tonopah	1864	54,738	1.72 %	18,199	47,140	16.46 %	3.01	1.16
Pershing	Lovelock	1919	6,462	0.20 %	6,067	15,710	5.49 %	1.07	0.41
Storey	Virginia City	1861	4,170	0.13 %	264	680	0.24 %	15.80	6.10
Washoe	Reno	1861	496,745	15.63 %	6,542	16,940	5.92 %	75.93	29.32
White Pine	Ely	1869	8,788	0.28 %	8,897	23,040	8.05 %	0.99	0.38
Totals	Counties: 17		3,177,772		110,572	286,380		28.74	11.10

Settlements

[edit]

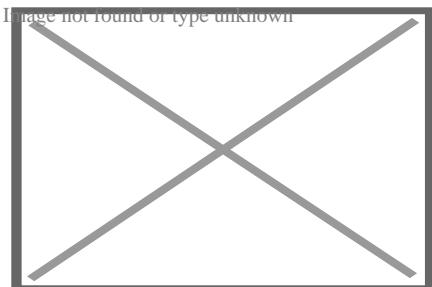
Largest cities or towns in Nevada Source:[47]

	Rank	Name	County	Pop.	
Las Vegas	1	Las Vegas	Clark	641,903	Reno
	2	Henderson	Clark	317,610	
Image not found or type unknown	3	Reno	Washoe	264,165	Image not found or type unknown
Las Vegas	4	North Las Vegas	Clark	262,527	Reno
Henderson	5	Enterprise	Clark	221,831	North Las Vegas
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Henderson					North Las Vegas

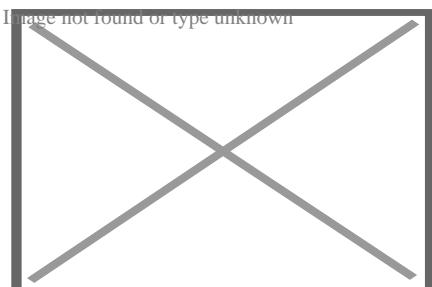
6	Spring Valley	Clark	215,597
7	Sunrise	Clark Manor	205,618
8	Paradise	Clark	191,238
9	Sparks	Washoe	108,445
10	Carson City	Carson City	58,639

Parks and recreation areas

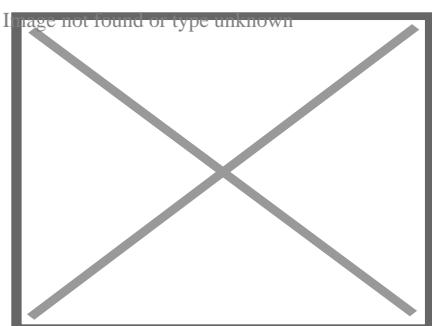
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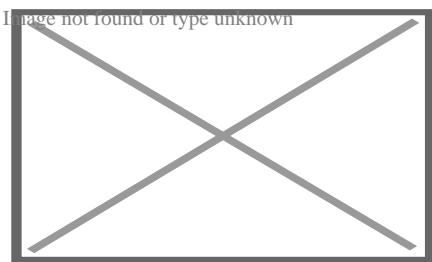
Red Rock Canyon National Conservation Area, Calico basin



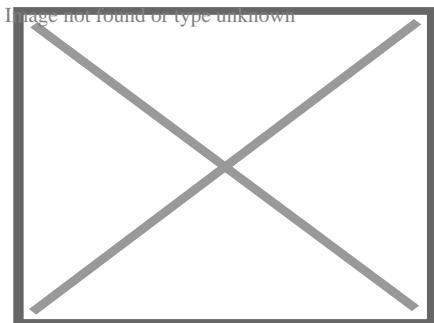
Great Basin National Park



The quartzite of Doso Doyabi in Great Basin National Park



Valley of Fire State Park



Mount Charleston

Recreation areas maintained by the federal government

[\[edit\]](#)

Northern Nevada

[\[edit\]](#)

- Basin and Range National Monument
- Black Rock Desert-High Rock Canyon Emigrant Trails National Conservation Area
- California National Historic Trail
- Great Basin National Park
- Humboldt-Toiyabe National Forest
- Lake Tahoe Basin Management Unit
- Pony Express National Historic Trail
- Sheldon National Wildlife Refuge

Southern Nevada

[\[edit\]](#)

- Ash Meadows National Wildlife Preserve
- Avi Kwa Ame National Monument
- Basin and Range National Monument
- Bootleg Canyon Mountain Bike Park
- Death Valley National Park
- Desert National Wildlife Refuge
- Gold Butte National Monument
- Humboldt-Toiyabe National Forest
- Inyo National Forest

- Lake Mead National Recreation Area
- Moapa Valley National Wildlife Refuge
- Mount Charleston and the Mount Charleston Wilderness
- Old Spanish National Historic Trail
- Pahranagat National Wildlife Refuge
- Red Rock Canyon National Conservation Area
- Sloan Canyon National Conservation Area
- Spring Mountains and the Spring Mountains National Recreation Area
- Tule Springs Fossil Beds National Monument

Wilderness

[edit]

Further information: [List of wilderness areas in Nevada](#)

There are 68 designated [wilderness areas](#) in Nevada, protecting some 6,579,014 acres (2,662,433 ha) under the jurisdiction of the [National Park Service](#), [U.S. Forest Service](#), and [Bureau of Land Management](#).^[48]

State parks

[edit]

Further information: [List of Nevada state parks](#)

The Nevada state parks comprise [protected areas](#) managed by the state of Nevada, including [state parks](#), state [historic sites](#), and state [recreation areas](#). There are 24 state park units, including [Van Sickle Bi-State Park](#) which opened in July 2011 and is operated in partnership with the adjacent state of [California](#).^[49]

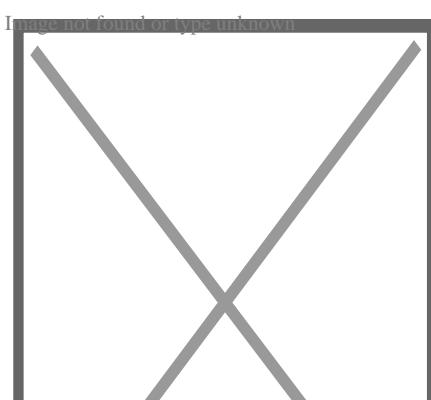
Demographics

[edit]

Population

[edit]

See also: [Hispanics and Latinos in Nevada](#) and [Basque Americans in Nevada](#)



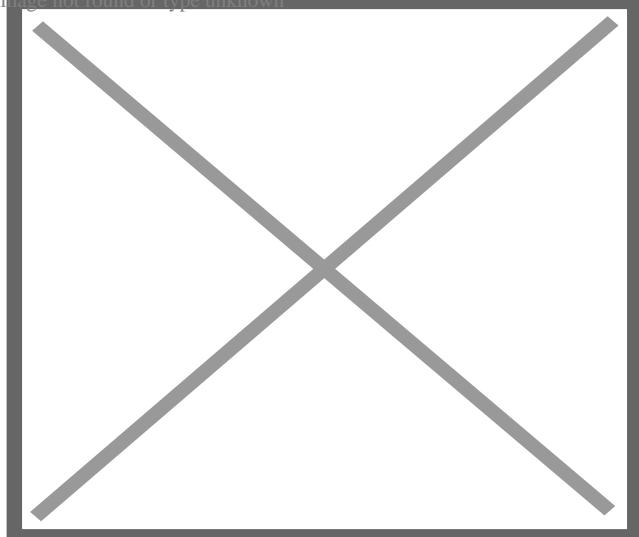
Population density map of Nevada

Historical population

Census	Pop.	Note	%±
1860	6,857	—	
1870	42,941	526.2%	
1880	62,266	45.0%	
1890	47,355	?23.9%	
1900	42,335	?10.6%	
1910	81,875	93.4%	
1920	77,407	?5.5%	
1930	91,058	17.6%	
1940	110,247	21.1%	
1950	160,083	45.2%	
1960	285,278	78.2%	
1970	488,738	71.3%	
1980	800,493	63.8%	
1990	1,201,833	50.1%	
2000	1,998,257	66.3%	
2010	2,700,551	35.1%	
2020	3,104,614	15.0%	
2024 (est.)	3,267,467	5.2%	

Source: 1910–2020[50]

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Ethnic origins in Nevada

The [United States Census Bureau](#) determined Nevada had a population of 3,104,614 at the [2020 U.S. census](#). In 2022, the estimated population of Nevada was 3,177,772, an increase of 73,158 residents (2.36%) since the 2020 [census](#).^[51] Nevada had the highest percentage growth in population from 2017 to 2018. At the 2020 census, 6.0% of the state's population were reported as under 5, 22.5% were under 18, and 16.1% were 65 or older. Females made up about 49.8% of the population. 19.1% of the population was reported as foreign-born.

Since the 2020 census, the population of Nevada had a natural increase of 2,374 (the net difference between 42,076 births and 39,702 deaths); and an increase due to net migration of 36,605 (of which 34,280 was due to domestic and 2,325 was due to international migration).^[52]

The [center of population](#) of Nevada is in southern [Nye County](#).^[53] In this county, the unincorporated town of [Pahrump](#), 60 miles (97 km) west of Las Vegas on the California state line, has grown very rapidly from 1980 to 2020. At the 2020 census, the town had 44,738 residents.^[54] Las Vegas grew from a gulch of 100 people in 1900 to 10,000 by 1950 to 100,000 by 1970, and was America's fastest-growing city and metropolitan area from 1960 to 2000.

From about the 1940s until 2003, Nevada was the fastest-growing state in the U.S. percentage-wise. Between 1990 and 2000, Nevada's population increased by 66%, while the nation's population increased by 13%. More than two-thirds of the population live in Clark County, which is coextensive with the [Las Vegas metropolitan area](#). Thus, in terms of population, Nevada is one of the most centralized states in the nation.

[Henderson](#) and [North Las Vegas](#) are among the top 20 fastest-growing U.S. cities with populations over 100,000. The rural community of [Mesquite](#) 65 miles (105 km) northeast of Las Vegas was an example of micropolitan growth in the 1990s and 2000s. Other desert towns like [Indian Springs](#) and [Searchlight](#) on the outskirts of Las Vegas have seen some growth as well.

Since 1950, the rate of population born in Nevada has never peaked above 27 percent, the lowest rate of all states. In 2012, only 25% of Nevadans were born in Nevada.^[55]

According to [HUD's 2022 Annual Homeless Assessment Report](#), there were an estimated 7,618 [homeless](#) people in Nevada.^{[56][57]}

Race and ethnicity

[\[edit\]](#)

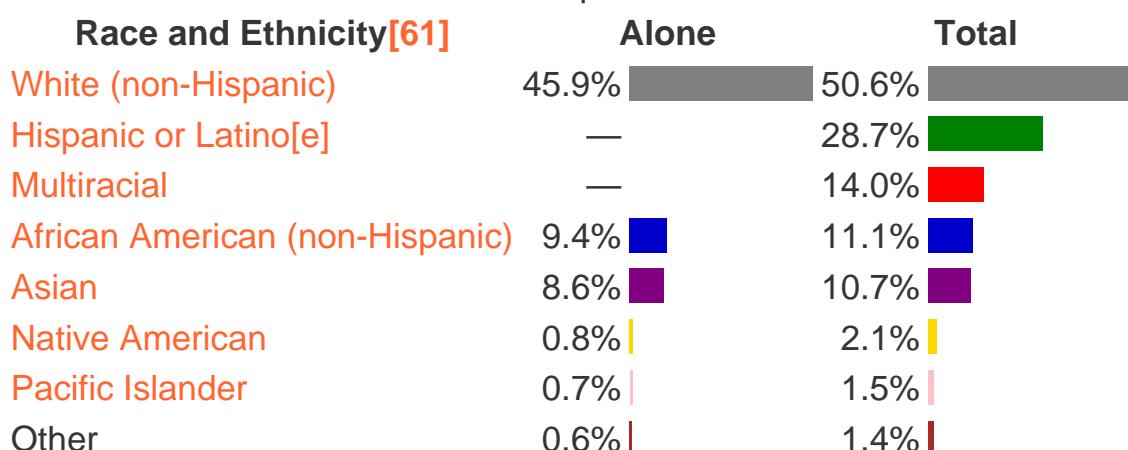
Nevada – Racial and Ethnic Composition (NH = Non-Hispanic)

Note: the US Census treats Hispanic/Latino as an ethnic category. This table excludes Latinos from the racial categories and assigns them to a separate category.

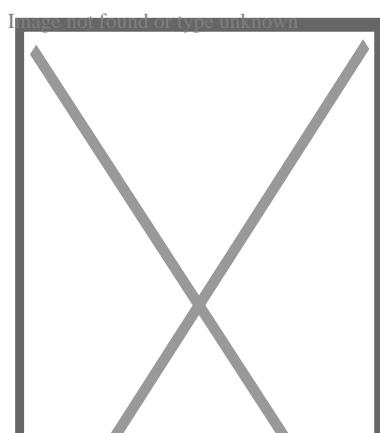
Hispanics/Latinos may be of any race.

Race / Ethnicity	Pop 2000[58]	Pop 2010[59]	Pop 2020[60]	% 2000	% 2010	% 2020
White alone (NH)	1,303,001	1,462,081	1,425,952	65.21%	54.14%	45.93%
Black or African American alone (NH)	131,509	208,058	291,960	6.58%	7.70%	9.40%
Native American or Alaska Native alone (NH)	21,397	23,536	23,392	1.07%	0.87%	0.75%
Asian alone (NH)	88,593	191,047	265,991	4.43%	7.07%	8.57%
Pacific Islander alone (NH)	7,769	15,456	22,970	0.39%	0.57%	0.74%
Some Other Race alone (NH)	2,787	4,740	17,171	0.14%	0.18%	0.55%
Mixed Race/Multi-Racial (NH)	49,231	79,132	166,921	2.46%	2.93%	5.38%
Hispanic or Latino (any race)	393,970	716,501	890,257	19.72%	26.53%	28.68%
Total	1,998,257	2,700,551	3,104,614	100.00%	100.00%	100.00%

Ethnic composition as of the 2020 census



According to the 2022 American Community Survey, 30.3% of Nevada's population were of Hispanic or Latino origin (of any race): Mexican (22%), Cuban (1.5%), Salvadoran (1.5%), Puerto Rican (1%), and other Hispanic or Latino origin (4.3%).[62] The largest European ancestry groups were: German (8.9%), English (8.1%), Irish (7.2%), and Italian (4.8%).[63] The largest Asian ancestry groups in the state were Filipino (6.4%) and Chinese (1.9%).[64]



Map of counties in Nevada by racial plurality, per the 2020 census

Legend

- 50–60%
- 60–70%
- 70–80%
- 80–90%

Non-Hispanic White

- 30–40%

In 1980, non-Hispanic whites made up 83.2% of the state's population.[\[65\]](#)

Nevada historical racial composition

Racial composition	1970 [65]	1980	1990 [65]	2000 [66]	2010 [67]	2020 [68]
White	91.7%	87.5%	84.3%	75.2%	66.2%	51.2%
Black	5.7%	6.4%	6.6%	6.8%	8.1%	9.8%
Asian	0.7%	1.8%	3.2%	4.5%	7.2%	8.8%
Native	1.6%	1.7%	1.6%	1.3%	1.2%	1.4%
Native Hawaiian and other Pacific Islander	—	—	—	0.4%	0.6%	0.8%
Other race	0.3%	2.7%	4.4%	8.0%	12.0%	14.0%
Two or more races	—	—	—	3.8%	4.7%	14.0%
Hispanic or Latino (of any race)	5.6%	6.7%	10.4%	19.7%	26.5%	28.7%
Non-Hispanic white	86.7%	83.2%	78.7%	65.2%	54.1%	45.9%

As of 2011, 63.6% of Nevada's population younger than age 1 were minorities.[\[69\]](#) Las Vegas is a **majority-minority** city. According to the United States Census Bureau estimates, as of July 1, 2018, non-Hispanic Whites made up 48.7% of Nevada's population.[\[70\]](#)

In Douglas, Mineral, and Pershing counties, a plurality of residents are of Mexican ancestry. In Nye County and Humboldt County, residents are mostly of German ancestry; Washoe County has many Irish Americans. Americans of English descent form pluralities in Lincoln County, Churchill County, Lyon County, White Pine County, and Eureka County.

Asian Americans have lived in the state since at least the 1850s, when the California gold rush brought thousands of Chinese miners to Washoe County. They were followed by a few hundred Japanese farmworkers in the late 19th century. By the late 20th century, many immigrants from China, Japan, Korea, the Philippines, Bangladesh, India, and Vietnam came to the Las Vegas metropolitan area. The city now has a significant Asian American community, with a mostly Chinese and Taiwanese area known as "Chinatown" west of I-15 on Spring Mountain Road. Filipino Americans form the largest Asian American group in the state, with a population of more than 202,000. They comprise 59.8% of the Asian American

population in Nevada and constitute about 6.4% of the entire state's population.[\[71\]](#)

Mining booms drew many Greek and Eastern European immigrants to Nevada.[\[72\]](#) In the early twentieth century, **Greeks**, **Slavs**, **Danes**, **Japanese**, **Italians**, and **Basques** poured into Nevada.[\[73\]](#) **Chileans** were found in the state as early as 1870.[\[74\]](#) During the mid-1800s, a significant number of European immigrants, mainly from **Ireland**, **England** and **Germany**, arrived in the state with the intention of capitalizing on the thriving mining sector in the region.[\[75\]](#)

Native American tribes in Nevada are the **Northern** and **Southern Paiute**, **Western Shoshone**, **Goshute**, **Hualapai**, **Washoe**, and **Ute** tribes.[\[76\]](#)

Whites remain the largest racial or ethnic group in Nevada.[\[77\]](#) Hispanics are the fastest growing ethnic group in Nevada.[\[78\]](#) There is a growing Mexican and Central American population in Nevada. Many of Nevada's Latino immigrants are from Mexico, Guatemala and El Salvador.[\[79\]](#) Nevada also has a growing multiracial population.[\[80\]](#)

The top countries of origin for immigrants in Nevada were **Mexico** (39.5 percent of immigrants), the **Philippines** (14.3 percent), **El Salvador** (5.2 percent), **China** (3.1 percent), and **Cuba** (3 percent).[\[81\]](#)

The majority of people in Nevada are of white (European) ancestry. A small portion trace their ancestry to Basque people recruited as sheepherders. Hispanics in Nevada are mainly of Mexican and Cuban heritage. Latinos comprise about one-fourth of Nevada's residents and are concentrated in the southeast in Nevada. African Americans live mainly in the Las Vegas and Reno area and constitute less than one-tenth of the population. Native Americans of the Paiute, Shoshone, and Washoe tribes live on several reservations in the state and make up a small fraction of Nevada's population.[\[82\]](#)

The most common ancestries in Nevada include Mexican, German, Irish, English, Italian and Asian.[\[83\]](#)

Nevada is the third most diverse state in the country, behind only Hawaii and California.[\[84\]](#)[[85](#)]

Birth data

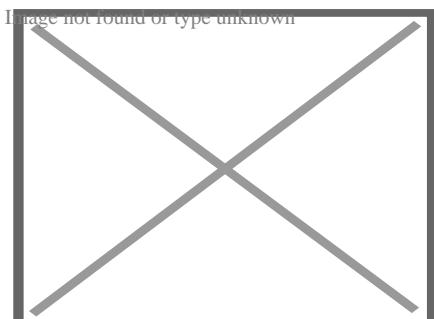
Note: Births within the table do not add up, due to Hispanics being counted both by their ethnicity and by their race, giving a higher overall number.

Live Births by Single Race/Ethnicity of Mother

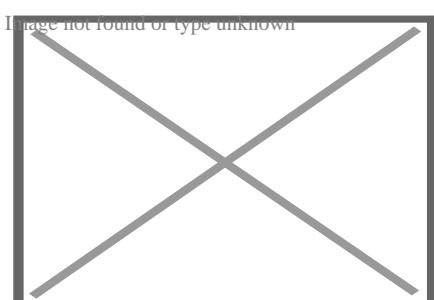
Race	2013[86]	2014[87]	2015[88]	2016[89]	2017[90]	2018[91]	2019[92]	2020[93]	2021[94]	2022[95]
------	--------------	--------------	--------------	--------------	--------------	--------------	--------------	--------------	--------------	--------------

White	27,293	27,638	27,648
	(77.9%)	(77.1%)	(76.2%)
Non-Hispanic White	14,951	15,151	14,937	13,918	13,171	13,021	12,479	11,602	11,800	10,961
	(42.7%)	(42.2%)	(41.2%)	(38.4%)	(36.8%)	(36.5%)	(35.6%)	(34.5%)	(35.0%)	(33.0%)
Black	4,215	4,603	4,803	4,205	4,471	4,564	4,514	4,533	4,457	4,334
	(12.0%)	(12.8%)	(13.2%)	(11.6%)	(12.5%)	(12.8%)	(12.9%)	(13.5%)	(13.2%)	(13.1%)
Asian	3,097	3,145	3,337	2,666	2,685	2,613	2,587	2,467	2,372	2,548
	(8.8%)	(8.8%)	(9.2%)	(7.3%)	(7.5%)	(7.3%)	(7.4%)	(7.3%)	(7.0%)	(7.7%)
Pacific Islander				308	322	340	372	358	331	358
	(0.8%)	(0.9%)	(1.0%)	(1.1%)	(1.1%)	(1.0%)	(1.1%)
American Indian	425	475	510	303	305	280	277	234	239	218
	(1.2%)	(1.3%)	(1.4%)	(0.8%)	(0.9%)	(0.8%)	(0.8%)	(0.7%)	(0.7%)	(0.7%)
Hispanic (of any race)	12,718	13,006	13,225	13,391	13,176	13,307	13,238	12,763	12,842	13,019
	(36.3%)	(36.3%)	(36.4%)	(36.9%)	(36.8%)	(37.3%)	(37.7%)	(37.9%)	(38.1%)	(39.2%)
Total	35,030	35,861	36,298	36,260	35,756	35,682	35,072	33,653	33,686	33,193
Nevada	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)

- Since 2016, data for births of **White Hispanic** origin are not collected, but included in one *Hispanic* group; persons of Hispanic origin may be of any race.



The **Winnemucca Sand Dunes**, north of Winnemucca



Downtown Reno



East Las Vegas suburbs

A small percentage of Nevada's population lives in rural areas. The culture of these places differs significantly from major metropolitan areas. People in these rural counties tend to be native Nevada residents, unlike in the Las Vegas and Reno areas, where the vast majority of the population was born in another state. The rural population is also less diverse in terms of race and ethnicity. Mining plays an important role in the economies of the rural counties, with tourism being less prominent.^[96] Ranching also has a long tradition in rural Nevada.^[97]

Locations by per capita income

[\[edit\]](#)

Further information: [Nevada locations by per capita income](#)

Ranked by per capita income in 2020

Rank	Place	Per capita income	County
1	Crystal Bay	\$180,334	Washoe
2	Glenbrook	\$102,963	Douglas
3	Zephyr Cove	\$94,920	Douglas
4	Genoa	\$86,185	Douglas
5	Incline Village	\$74,294	Washoe
6	Kingsbury	\$68,215	Douglas
7	Round Hill Village	\$67,659	Douglas
8	East Valley	\$67,169	Douglas
9	Summerlin South	\$65,633	Clark
10	Mount Charleston	\$57,583	Clark

Religion

[\[edit\]](#)

Religious self-identification, per [Public Religion Research Institute's 2022 American Values Survey](#)^[98]

1. Unaffiliated (40%)
2. Protestantism (25%)
3. Catholicism (21%)
4. Mormonism (5%)
5. New Age (4%)
6. Jehovah's Witnesses (2%)
7. Judaism (2%)

8. Hinduism (1%)



Church attendance in Nevada is among the lowest of all U.S. states. In a 2009 Gallup poll only 30% of Nevadans said they attended church weekly or almost weekly, compared to 42% of all Americans (only four states were found to have a lower attendance rate than Nevada's). [99] In 2020, the Public Religion Research Institute determined 67% of the population were Christian,[100] reflecting a 1% increase in religiosity from 2014's separate Pew study.[101]

Major religious affiliations of the people of Nevada were, according to the Pew Research Center in 2014: Protestant 35%, Irreligious 28%, Roman Catholic 25%, Latter-day Saints 4%, Jewish 2%, Hindu less than 1%, Buddhist 0.5% and Muslim around 0.2%. Parts of Nevada (in the eastern parts of the state) are situated in the Mormon Corridor.

The largest denominations by number of adherents in 2010 were the Roman Catholic Church with 451,070; The Church of Jesus Christ of Latter-day Saints with 175,149; and the Southern Baptist Convention with 45,535; Buddhist congregations 14,727; Bahá'í Faith 1,723; and Muslim 1,700.[102]

Languages

[edit]

See also: Native American languages of Nevada

The most common non-English languages spoken in Nevada are Spanish, Tagalog and Chinese.[103] Indigenous languages of Nevada include Northern Paiute, the Southern Paiute, Shoshone, and Washo.[104]

The top seven languages spoken in Nevada according to the U.S. Census data are Spanish, Tagalog, Chinese, Vietnamese, Korean, Amharic, Arabic, and Thai.[105]

Native American tribes

[edit]

Historically what is now Nevada has been inhabited mainly by the Paiute, Shoshone, and Washoe.[\[106\]](#)

The largest Native American tribes in Nevada according to the 2010 census are listed in the table below:[\[107\]](#)

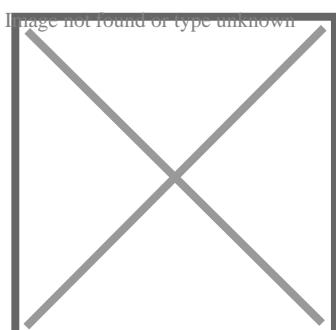
Tribal groupings with over 500 members in Nevada in 2010 census

Tribal grouping	American Indian and Alaska Native alone	AIAN in combination with one or more other races	Total AIAN alone or in any combination
Total AIAN population	32062	23883	55945
Cherokee	1824	4376	6200
Paiute	4182	677	4859
Navajo	1926	671	2597
Paiute-Shoshone	2118	170	2288
Mexican American Indian	1222	708	1930
Shoshone	1388	400	1788
Choctaw	597	872	1469
Apache	719	690	1409
Sioux	702	626	1328
Blackfeet	284	877	1161
Te-Moak Tribes of Western Shoshone	1011	118	1129
Washoe	815	130	945
Ojibwe	494	338	832
Reno-Sparks Indian Colony	579	13	592
Iroquois	228	283	511
Tribe not specified	9413	10117	19530

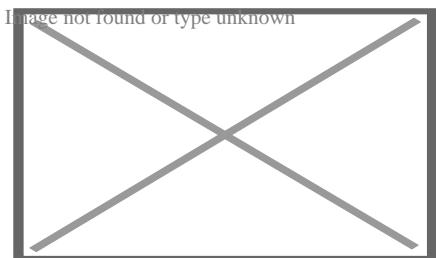
Economy

[\[edit\]](#)

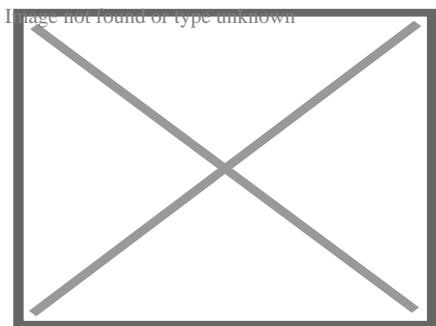
See also: [Nevada locations by per capita income](#)



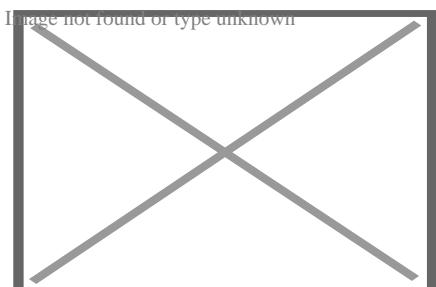
Nevada quarter



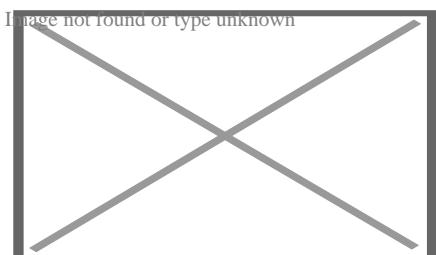
MGM Grand, with sign promoting it as The City of Entertainment



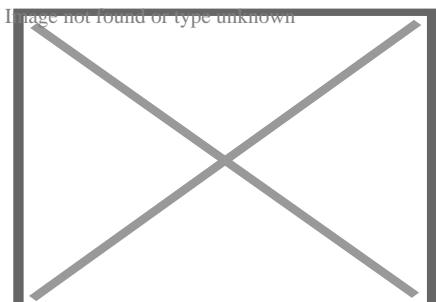
Lake Tahoe on the Nevada–California border



Goldstrike (Post-Betze) Mine in the [Carlin Trend](#), the largest [Carlin-type deposit](#) in the world, containing more than 35,000,000 troy ounces (1,100 t) gold[\[108\]](#)



Cattle near the [Bruneau River](#) in Elko County



Ranching in Washoe County

The economy of Nevada is tied to tourism (especially entertainment and gambling related), mining, and cattle ranching. Nevada's industrial outputs are tourism, entertainment, mining, machinery, printing and publishing, food processing, and electric equipment. The Bureau of Economic Analysis[109][110] estimates Nevada's total state product in 2018 was \$170 billion. [111] The state's per capita personal income in 2020 was \$53,635, ranking 31st in the nation. [112] Nevada's state debt in 2012 was calculated to be \$7.5 billion, or \$3,100 per taxpayer. [113] As of May 2021, the state's unemployment rate was 7.8%. [114]

Further information: [Las Vegas Global Economic Alliance](#)

Mining

[edit]

Main articles: [Gold mining in Nevada](#) and [Silver mining in Nevada](#)

In portions of the state outside of the Las Vegas and Reno metropolitan areas mining plays a major economic role. By value, gold is by far the most important mineral mined. In 2022, 4,040,000 troy ounces (126 t) of gold worth \$7.3 billion were mined in Nevada, and the state accounted for 4% of world gold production. Other minerals mined in Nevada include construction aggregates, copper, gypsum, diatomite and lithium. [115][116] Despite its rich deposits, the cost of mining in Nevada is generally high, and output is very sensitive to world commodity prices.

Cattle ranching

[edit]

Cattle ranching is a major economic activity in rural Nevada. [117] Nevada's agricultural outputs are cattle, hay, alfalfa, dairy products, onions, and potatoes. In 2020, there were an estimated 438,511 head of cattle and 71,699 head of sheep in Nevada. [118] Most of these animals forage on [rangeland](#) in the summer, with supplemental feed in the winter. Calves are generally shipped to out-of-state [feedlots](#) in the fall to be fattened for the market. Over 90% of Nevada's 653,891 acres (264,620 ha) of cropland is used to grow [hay](#), mostly alfalfa, for livestock feed. [118]

Largest employers

[edit]

The largest employers in the state, as of the first fiscal quarter of 2011, are the following, according to the Nevada Department of Employment, Training and Rehabilitation: [119]

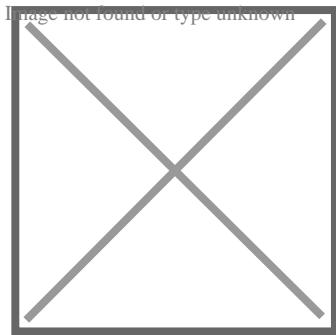
Rank	Employer
1	Clark County School District
2	Washoe County School District
3	Clark County
4	Wynn Las Vegas
5	Bellagio LLC
6	MGM Grand Hotel/Casino
7	Aria Resort & Casino LLC
8	Mandalay Bay Resort and Casino
9	Las Vegas Metropolitan Police Department
10	Caesars Palace
11	University of Nevada, Las Vegas
12	The Venetian Casino Resort
13	The Cosmopolitan of Las Vegas
14	The Mirage Casino-Hotel
15	University of Nevada, Reno
16	University Medical Center of Southern Nevada
17	The Palazzo Casino Resort
18	Flamingo Las Vegas Operating Company LLC
19	Encore Las Vegas
20	Luxor Las Vegas

Infrastructure

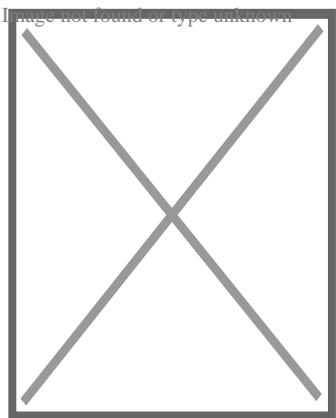
[\[edit\]](#)

Transportation

[\[edit\]](#)



State route shield



U.S. Route 50, also known as "The Loneliest Road in America"

Amtrak's *California Zephyr* train uses the Union Pacific's original transcontinental railroad line in daily service from Chicago to Emeryville, California, serving Elko, Winnemucca, and Reno. Las Vegas has had no passenger train service since Amtrak's *Desert Wind* was discontinued in 1997. Amtrak Thruway buses provide connecting service from Las Vegas to trains at Needles, California, Los Angeles, and Bakersfield, California; and from Stateline, Nevada, to Sacramento, California. There have been a number of proposals to re-introduce service to either Los Angeles or Southern California with the privately run Brightline West having begun construction in 2024.

The Union Pacific Railroad has some railroads in the north and south of Nevada. Greyhound Lines provide some bus service to the state.

Interstate 15 (I-15) passes through the southern tip of the state, serving Las Vegas and other communities. I-215 and I-515 also serve the Las Vegas metropolitan area. I-80 crosses through the northern part of Nevada, roughly following the path of the Humboldt River from Utah in the east and the Truckee River westward through Reno into California. It has a spur route, I-580. Nevada also is served by several U.S. highways: US 6, US 50, US 93, US 95 and US 395. There are also 189 Nevada state routes. Many of Nevada's counties have a system of county routes as well, though many are not signed or paved in rural areas. Nevada is one of a few states in the U.S. that do not have a continuous interstate highway linking its two major population centers – the road connection between the Las Vegas and Reno areas is a combination of several different Interstate and U.S. highways. The Interstate 11 proposed routing may eventually remedy this.^[120]

The state is one of just a few in the country to allow semi-trailer trucks with three trailers – what might be called a "road train" in Australia. But American versions are usually smaller, in part because they must ascend and descend some fairly steep mountain passes.

RTC Transit is the public transit system in the Las Vegas metropolitan area. The agency is the largest transit agency in the state and operates a network of bus service across the Las Vegas Valley, including the use of The Deuce, double-decker buses, on the Las Vegas Strip and several outlying routes. RTC RIDE operates a system of local transit bus service

throughout the Reno-Sparks metropolitan area. Other transit systems in the state include Carson City's JAC. Most other counties in the state do not have public transportation at all.

Additionally, a 4-mile (6.4 km) monorail system provides public transportation in the Las Vegas area. The [Las Vegas Monorail](#) line services several casino properties and the [Las Vegas Convention Center](#) on the east side of the Las Vegas Strip, running near Paradise Road, with a possible future extension to [Harry Reid International Airport](#). Several hotels also run their own monorail lines between each other, which are typically several blocks in length.

Harry Reid International Airport in Las Vegas is the busiest airport serving Nevada. The [Reno-Tahoe International Airport](#) (formerly known as the Reno Cannon International Airport) is the other major airport in the state.

Energy

[\[edit\]](#)

See also: [List of power stations in Nevada](#)

Nevada has had a thriving [solar energy sector](#). An independent study in 2013 concluded that solar users created a \$36 million net benefit. However, in December 2015, the Public Utility Commission let the state's only power company, [NV Energy](#), charge higher rates and fees to solar panel users, leading to an immediate collapse of rooftop solar panel use.[\[121\]](#)

In December 1987, Congress amended the Nuclear Waste Policy Act to designate [Yucca Mountain nuclear waste repository](#) as the only site to be characterized as a permanent repository for all of the nation's [highly radioactive waste](#).[\[122\]](#)

Affordable housing

[\[edit\]](#)

In 2018, the [National Low Income Housing Coalition](#) calculated the discrepancy between available affordable housing units and renters who earn below the poverty line. In Nevada, only 15 affordable rental homes are available per 100 extremely low income (ELI) households.[\[123\]](#) The shortage extended to a deficit in supply of 71,358 affordable rental homes. This was the largest discrepancy of any state. The most notable catalyst for this shortage was the [Great Recession](#) and housing crisis of 2007 and 2008. Since then, housing prices have increased while demand has increased, and supply has struggled to match the increase in demand. In addition, low-income service workers were slowly being pushed out by an influx of tech professionals. In Nevada there is essentially a standard of six-figure income to affordably rent a [single-family home](#).[\[124\]](#) Considering the [average salary](#) in



Nevada, \$54,842 per year, this standard is on average, unaffordable.[125] The disproportionate cost of housing compared to average salary has led to 112,872 renters to be paying more than half of their yearly income towards housing.[126]

The definition of an affordable home is "one that a household can obtain for 30 percent or less of its annual income". So, there is clearly a long way to go in order to close the gap between housing prices and relative income in the state. Renters are looking for solutions to still be able to live in the state in a way that their income can support. As a result, single adults are being forced to split rent with other renters or move residences to farther outside metro areas. One solution being offered is to increase the supply of higher income positions within the state to make things more affordable. However, this would require Nevadans to retrain in new jobs or careers.

Education

[edit]

Education in Nevada is achieved through public and private elementary, middle, and high schools, as well as colleges and universities.

A May 2015 educational reform law expanded school choice options to 450,000 Nevada students who are at up to 185% of the federal poverty level. Education savings accounts (ESAs) are enabled by the new law to help pay the tuition for private schools. Alternatively, families "can use funds in these accounts to also pay for textbooks and tutoring".[127][128]

Approximately 86.9% of Nevada residents have attained at least a high school degree or equivalent, which is below the national average of 88.6%. [129]

Public school districts

[edit]

Public school districts in Nevada include:

- Carson City School District
- Churchill County School District
- Clark County School District, the fifth largest school district in the United States
- Douglas County School District
- Elko County School District
- Esmeralda County School District
- Eureka County School District
- Humboldt County School District
- Lander County School District

- Lincoln County School District
- [Lyon County School District](#)
- Mineral County School District
- [Nye County School District](#)
- [Pershing County School District](#)
- Storey County School District
- [Washoe County School District](#)
- White Pine County School District

Colleges and universities

[\[edit\]](#)

- [Nevada System of Higher Education](#)
 - University of Nevada, Las Vegas (UNLV)
 - University of Nevada, Reno (UNR)
 - Nevada State University (NSU)
 - Truckee Meadows Community College (TMCC)
 - Great Basin College
 - College of Southern Nevada (CSN)
 - Western Nevada College (WNC)
- Sierra Nevada College
- Touro University Nevada
- Roseman University of Health Sciences

Research institutes

[\[edit\]](#)

- [Desert Research Institute](#)

The Nevada Aerospace Hall of Fame provides educational resources and promotes the aerospace and aviation history of the state.[\[130\]](#)

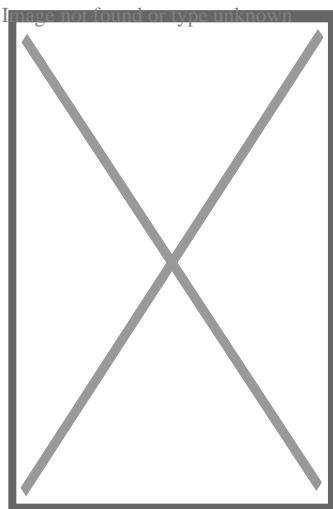
Law and government

[\[edit\]](#)

Government

[\[edit\]](#)

Main article: [Government of Nevada](#)



The Nevada State Legislative Building in Carson City

Under the [Constitution of the State of Nevada](#), the powers of the [Nevada government](#) are divided among three [separate departments](#): the [executive](#) consisting of the [governor of Nevada](#) and their cabinet along with the other elected constitutional officers; the [legislative](#) consisting of the [Nevada Legislature](#), which includes the [Assembly](#) and the [Senate](#); and the [judicial](#) consisting of the [Supreme Court of Nevada](#) and lower courts.

The governor is the [chief magistrate](#) of Nevada,[131] the head of the executive department of the state's government,[131] and the commander-in-chief of the [state's military forces](#).[132] The current governor is [Joe Lombardo](#), a Republican. The executive branch also consists of an independently elected [lieutenant governor](#), [secretary of state](#), [state treasurer](#), [state controller](#), and [attorney general](#) who function as a check and balance on the power of the governor.[133]

The Nevada Legislature is a [bicameral](#) body divided into an Assembly and Senate. Members of the Assembly serve two years, and members of the Senate serve four years. Both houses of the Nevada Legislature enacted term limits starting in 2010, with senators and assemblymen/women who are limited to a maximum of twelve years in each body (by appointment or election which is a lifetime limit) – a provision of the constitution which was upheld by the Supreme Court of Nevada in a unanimous decision. Each session of the legislature meets for a constitutionally mandated 120 days in every odd-numbered year, or longer if the governor calls a special session.

On December 18, 2018, Nevada became the first in the United States with a female majority in its legislature. Women hold nine of the 21 seats in the Nevada Senate, and 23 of the 42 seats in the Nevada Assembly.[134]

The Supreme Court of Nevada is the [state supreme court](#) and the head of the [Nevada Judiciary](#). Original jurisdiction is divided between the [district courts](#) (with general jurisdiction), and justice courts and municipal courts (both of limited jurisdiction). Appeals from District Courts are made directly to the Nevada Supreme Court, which under a deflective model of

jurisdiction, has the discretion to send cases to the [Court of Appeals](#) for final resolution.^[135]

[Incorporated towns](#) in Nevada, known as cities, are given the authority to legislate anything not prohibited by law. A recent movement has begun to permit [home rule](#) to incorporate Nevada cities to give them more flexibility and fewer restrictions from the Legislature. Town Boards for [unincorporated towns](#) are limited local governments created by either the local county commission, or by referendum, and form a purely advisory role and in no way diminish the responsibilities of the county commission that creates them.

State agencies

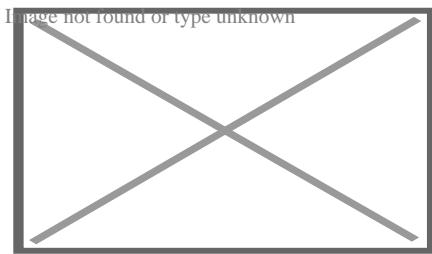
[\[edit\]](#)

- [Attorney General](#)
- [Department of Business & Industry](#)
- [Department of Conservation & Natural Resources](#)
- [Consumer Health Assistance](#)
- [Controller's Office](#)
- [Department of Corrections](#)
- [Nevada Department of Cultural Affairs](#)
- [Nevada Commission on Economic Development](#)
- [Department of Education](#)
- [Nevada Secretary of State, Election Division](#)
- [Department of Employment, Training & Rehabilitation](#)
- [Gaming Control Board](#)
- [Governor's Office](#)
- [Nevada Film Office](#)
- [Department of Health and Human Services](#)
- [Department of Information Technology](#)
- [Department of Justice](#)
- [Lieutenant Governor](#)
- [Nevada Military Department](#)
- [Division of Minerals, Commission on Mineral Resources](#)
- [Department of Motor Vehicles](#)
- [Department of Personnel](#)
- [Advisory Council for Prosecuting Attorneys](#)
- [Public Employees Benefit Program](#)
- [Public Employees Retirement System](#)
- [Department of Public Safety](#)
- [Nevada Public Utilities Commission](#)
- [Department of Secretary of State](#)
- [Department of Taxation](#)

- Commission on Tourism
- [Department of Transportation](#)
- [Nevada State Treasurer](#)
- Universities and Community Colleges of Nevada
- Nevada Office of Veterans' Services
- [Western Interstate Commission for Higher Education](#)
- [Nevada Department of Wildlife](#)
- Board of Museums and History

Law

[edit]



The courthouse of the [Supreme Court of Nevada](#)

In 1900, Nevada's population was the smallest of all states and was shrinking, as the difficulties of living in a "barren desert" began to outweigh the lure of silver for many early settlers. Historian [Lawrence Friedman](#) has explained what happened next:

Nevada, in a burst of ingenuity, built an economy by exploiting its sovereignty. Its strategy was to legalize all sorts of things that were illegal in California ... after the easy divorce came easy marriage and [casino](#) gaming. Even prostitution is legal in Nevada, in any county that decides to allow it. Quite a few of them do. [\[136\]](#)

With the advent of [air conditioning](#) for summertime use and Southern Nevada's mild winters, the fortunes of the state began to turn around, as it did for [Arizona](#), making these two states the fastest growing in the Union.

Prostitution

[edit]

See also: [Prostitution in Nevada](#)

Nevada is the only state where [prostitution](#) is legal – in a licensed [brothel](#) in a county which has specifically voted to permit it. It is illegal in larger jurisdictions such as Clark County (which contains Las Vegas), [Washoe County](#) (which contains Reno), and the independent

city of Carson City.

Divorce

[edit]

Nevada's early reputation as a "divorce haven" arose from the fact that before the no-fault divorce revolution in the 1970s, divorces were difficult to obtain in the United States. Already having legalized gambling and prostitution, Nevada continued the trend of boosting its profile by adopting one of the most liberal divorce statutes in the nation. This resulted in *Williams v. North Carolina* (1942), 317 U.S. 287 (1942), in which the U.S. Supreme Court ruled North Carolina had to give "full faith and credit" to a Nevada divorce. The Court modified its decision in *Williams v. North Carolina* (1945), 325 U.S. 226 (1945), by holding a state need not recognize a Nevada divorce unless one of the parties was domiciled there at the time the divorce was granted and the forum state was entitled to make its own determination.

As of 2009, Nevada's divorce rate was above the national average.[137]

Taxes

[edit]

Nevada's tax laws are intended to draw new residents and businesses to the state. Nevada has no personal income tax or corporate income tax.[138] Since Nevada does not collect income data it cannot share such information with the federal government, the IRS.[139]

The state sales tax (similar to VAT or GST) in Nevada is variable depending upon the county. The statewide tax rate is 6.85%, with five counties (Elko, Esmeralda, Eureka, Humboldt, and Mineral) charging this amount. Counties may impose additional rates via voter approval or through approval of the state legislature; therefore, the applicable sales tax varies by county from 6.85% to 8.375% (Clark County). Clark County, which includes Las Vegas, imposes four separate county option taxes in addition to the statewide rate: 0.25% for flood control, 0.50% for mass transit, 0.25% for infrastructure, and 0.25% for more law enforcement. In Washoe County, which includes Reno, the sales tax rate is 7.725%, due to county option rates for flood control, the ReTRAC train trench project, and mass transit, and an additional county rate approved under the Local Government Tax Act of 1991.[140] The minimum Nevada sales tax rate changed on July 1, 2009.[141]

The lodging tax rate in unincorporated Clark County, which includes the Las Vegas Strip, is 12%. Within the boundaries of the cities of Las Vegas and Henderson, the lodging tax rate is 13%.

Corporations such as [Apple Inc.](#) allegedly have set up investment companies and funds in Nevada to avoid paying taxes.[\[142\]](#)

LGBT rights

[\[edit\]](#)

Main articles: [Same-sex marriage in Nevada](#) and [LGBT rights in Nevada](#)

In 2009, the [Nevada Legislature](#) passed a bill creating a domestic partnership registry which enables same-sex couples to enjoy the same rights as married couples. Due to the landmark decision in the case of [*Obergefell v. Hodges*](#), 576 U.S. 644 (2015), same-sex marriage was outright legalized in the state.

Incorporation

[\[edit\]](#)

Nevada provides a friendly environment for the formation of corporations, and many (especially California) businesses have incorporated in Nevada to take advantage of the benefits of the Nevada statute. [Nevada corporations](#) offer great flexibility to the board of directors and simplify or avoid many of the rules that are cumbersome to business managers in some other states. In addition, Nevada has no [franchise tax](#), although it does require businesses to have a license for which the business has to pay the state.

Financial institutions

[\[edit\]](#)

Similarly, many U.S. states have [usury](#) laws limiting the amount of [interest](#) a lender can charge, but federal law allows corporations to "import" these laws from their home state. Nevada has no cap on interest rates that may be agreed to in contracts.[\[143\]](#)

Alcohol and other drugs

[\[edit\]](#)

See also: [Alcohol laws of Nevada](#) and [Cannabis in Nevada](#)

Nevada has very liberal [alcohol](#) laws. Bars are permitted to remain open 24 hours, with no "[last call](#)". [Liquor stores](#), [convenience stores](#) and supermarkets may also sell alcohol 24 hours per day and may sell beer, wine and spirits.

In 2016, Nevada voters approved [Question 2](#), which legalized the possession, transportation and cultivation of personal use amounts of [marijuana](#) for adults age 21 years and older, and authorized the creation of a regulated market for the sale of marijuana to adults age 21 years and older through state-licensed retail outlets.[\[144\]](#) Nevada voters had previously approved [medical marijuana](#) in 2000, but rejected marijuana legalization in a similar referendum in 2006. Marijuana in all forms remains illegal under federal law.

Aside from cannabis legalization, non-alcohol drug laws are a notable exception to Nevada's otherwise libertarian principles. It is notable for having the harshest penalties for drug offenders in the country. Nevada remains the only state to still use [mandatory minimum sentencing](#) guidelines for possession of drugs.[\[145\]](#)

The [Substance Abuse and Mental Health Services Administration](#) (SAMHSA) reported, in their Behavioral Health Barometer for Nevada, published in 2014, changes to substance abuse patterns and addiction across the southwestern state.[\[146\]](#) Between 2012 and 2013, adolescents in Nevada abused illicit substances at a slightly higher percentage than nationally. 10.2 percent of Nevada's adolescents abused illicit drugs compared to 9.2 percent across the United States. Between 2009 and 2013, 11.7 percent of all adolescents in the state reported abusing illicit, intoxicating substances in the month prior to the survey; this represents 25,000 adolescents.

Smoking

[\[edit\]](#)

Nevada voters enacted a smoking ban ("The Nevada Clean Indoor Air Act") in November 2006 which became effective on December 8, 2006. It outlaws smoking in most workplaces and public places. Smoking is permitted in bars, but only if the bar serves no food, or the bar is inside a larger casino. Smoking is also permitted in casinos, certain hotel rooms, tobacco shops, and brothels.[\[147\]](#) However, some businesses do not obey this law and the government tends not to enforce it.[\[148\]](#) In 2011, smoking restrictions in Nevada were relaxed for certain places which allow only people 21 or older inside.[\[149\]](#)

Crime

[\[edit\]](#)

Main article: [Crime in Nevada](#)

In 2006, the [crime rate](#) in Nevada was about 24% higher than the national average rate, though crime has since decreased. [Property crimes](#) accounted for about 85% of the total crime rate in Nevada, which was 21% higher than the national rate. The remaining 20.3% were [violent crimes](#).[\[150\]](#) A complete listing of crime data in the state for 2013 can be found

here:[151]

Politics

[edit]

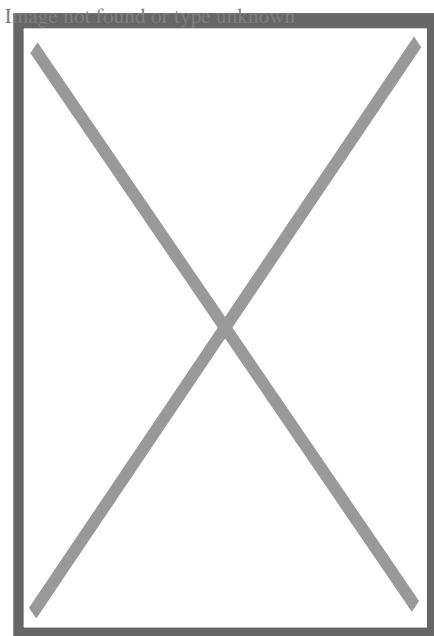
See also: Political party strength in Nevada

Party registration as of February 2025[152]

Party	Total voters	Percentage
Democratic	616,656	29.42%
Republican	616,882	29.43%
Independent American	94,604	4.51%
Libertarian	16,202	0.77%
Other parties	48,727	2.33%
Nonpartisan	703,085	33.54%
Total	2,096,156	100.00%

State politics

[edit]



Party Registration by County in Nevada (February 2025):

- Republican ? 30%
- Republican ? 40%
- Republican ? 50%
- Republican ? 60%
- Unaffiliated ? 30%

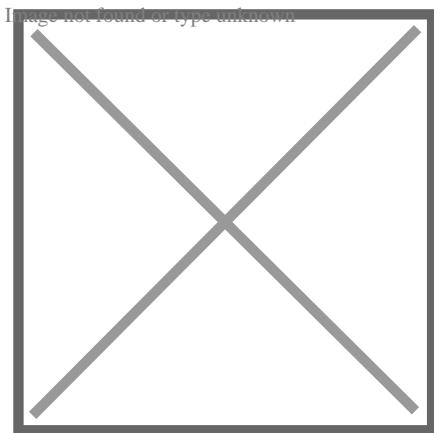
Due to heavy growth in the southern portion of the state, there is a noticeable divide between the politics of northern and southern Nevada. Historically, northern Nevada has been very **Republican**. The more rural counties of the north are among the most conservative regions of the state. Carson City, the state's capital, is a Republican-leaning swing city/county. Washoe County, home to Reno, has historically been strongly Republican, but now has become a fairly balanced swing county, like the state as a whole. Clark County, home to Las Vegas, has been a stronghold for the Democratic Party since it was founded in 1909, having voted Republican only six times and once for a third-party candidate, although in recent times becoming more competitive, most notably in the 2024 Presidential Election where the Democratic Party's margin of victory was only 2.63 percentage points to Republicans.[\[153\]](#) Clark and Washoe counties have long dominated the state's politics. Between them, they cast 87% of Nevada's vote, and elect a substantial majority of the state legislature. The last Republican to carry Clark County was **George H. W. Bush** in 1988, and the last Republican to carry Washoe County was **George W. Bush** in 2004. The great majority of the state's elected officials are from either Las Vegas or Reno.[\[154\]](#) Donald Trump was able to carry Nevada with a statewide majority in 2024, despite losing both Clark and Washoe.

In 2014, Republican **Adam Laxalt**, despite losing both Clark and Washoe counties, was elected **Attorney General**. However, he had lost Clark County only by 5.6% and Washoe County by 1.4%, attributable to lower turnout in these counties.[\[155\]](#)

National politics

[\[edit\]](#)

See also: [United States presidential elections in Nevada](#)



[2024 U.S. presidential election results](#) by county in Nevada

| Democratic
| Republican

Nevada has been won by the winner of nearly every presidential election since its first in 1864, only being carried by the defeated candidate eight times since statehood, most of

which were before 1900. Since 1912 Nevada has been carried by the presidential victor the most out of any state (27 of 29 elections), the only exceptions being 1976 when it voted for Gerald Ford over Jimmy Carter and 2016 when the state was carried by Hillary Clinton over Donald Trump. This gives the state status as a political bellwether. It was one of only three states won by John F. Kennedy in the American West in the election of 1960, albeit narrowly.[156] The state's U.S. Senators are Democrats Catherine Cortez Masto and Jacky Rosen. The Governorship is held by Joe Lombardo, a Republican.

Elections

[edit]

Main article: [Elections in Nevada](#)

Nevada is the only U.S. state to have a none of the above option available on its ballots. Officially called None of These Candidates, the option was first added to the ballot in 1975 and is used in all statewide elections, including president, US Senate and all state constitutional positions. In the event "None of These Candidates" receives a plurality of votes in the election, the candidate with the next-highest total is elected.[157]

In a 2020 study, Nevada was ranked as the 23rd on the "Cost of Voting Index", which is a measure of "the ease of voting across the United States." [158]

Culture

[edit]

Entertainment and tourism

[edit]

Resort areas like Las Vegas, Reno, Lake Tahoe, and Laughlin attract visitors from around the nation and world. In fiscal year 2022 Nevada casinos (not counting those with annual revenue under a million dollars) brought in US\$10.7 billion in gaming revenue and another US\$15.7 billion in non-gaming revenue.[159]

Nevada has by far the most hotel rooms per capita in the United States. According to the American Hotel and Lodging Association, there were 187,301 rooms in 584 hotels (of 15 or more rooms). The state is ranked just below California, Texas, Florida, and New York in the total number of rooms, but those states have much larger populations. Nevada has one hotel room for every 14 residents, far above the national average of one hotel room per 67 residents.[160]

Prostitution is legal in parts of Nevada in licensed brothels, but only counties with populations under 400,000 have the option to legalize it. Although prostitution is not a major part of the

Nevada economy, employing roughly 300 women as independent contractors, it is a very visible endeavor. Of the 14 counties permitted to legalize prostitution under state law, eight have chosen to legalize brothels. State law prohibits prostitution in Clark County (which contains Las Vegas), and Washoe County (which contains Reno). However, prostitution is legal in Storey County, which is part of the [Reno–Sparks metropolitan area](#).

Sports

[edit]

See also: [Las Vegas § Sports](#); [Sports in the Las Vegas metropolitan area](#); [Reno, Nevada § Sports](#); and [Henderson, Nevada § Sports](#)

The Las Vegas Valley is home to the [Vegas Golden Knights](#) of the [National Hockey League](#) who began to play in the [2017–18 NHL season](#) at [T-Mobile Arena](#) on the Las Vegas Strip in Paradise, the [Las Vegas Raiders](#) of the [National Football League](#) who began play at [Allegiant Stadium](#) in Paradise in 2020 after moving from Oakland, California, and the [Las Vegas Aces](#) of the [WNBA](#) who began playing in 2018 at [Mandalay Bay Events Center](#) after relocating from San Antonio. The [Oakland Athletics](#) of Major League Baseball plan to move to Las Vegas by 2027.[\[161\]](#)[\[162\]](#)

Nevada takes pride in college sports, most notably its college football. College teams in the state include the [Nevada Wolf Pack](#) (representing the University of Nevada, Reno) and the [UNLV Rebels](#) (representing the University of Nevada, Las Vegas), both in the [Mountain West Conference](#) (MW).

UNLV is most remembered for [its men's basketball program](#), which experienced its height of supremacy in the late 1980s and early 1990s. Coached by [Jerry Tarkanian](#), the Runnin' Rebels became one of the most elite programs in the country. In 1990, [UNLV](#) won the Men's Division I Championship by defeating [Duke](#) 103–73, which set tournament records for most points scored by a team and largest margin of victory in the national title game.

In [1991](#), UNLV finished the regular season undefeated, a feat that would not be matched in Division I men's basketball for [more than 20 years](#). Forward [Larry Johnson](#) won several awards, including the [Naismith Award](#). UNLV reached the Final Four yet again, but lost their national semifinal against [Duke](#) 79–77. The Runnin' Rebels were the [Associated Press](#) pre-season No. 1 back to back (1989–90, 1990–91). [North Carolina](#) is the only other team to accomplish that (2007–08, 2008–09).

The state's involvement in major-college sports is not limited to its local schools. In the 21st century, the Las Vegas area has become a significant regional center for college basketball conference tournaments. The MW, [West Coast Conference](#), and [Western Athletic Conference](#) all hold their men's and women's tournaments in the area, and the Pac-12 holds its men's tournament there as well. The [Big Sky Conference](#), after decades of holding its

men's and women's conference tournaments at campus sites, began holding both tournaments in Reno in 2016.

Las Vegas has hosted several professional boxing matches, most recently at the MGM Grand Garden Arena with bouts such as Mike Tyson vs. Evander Holyfield, Evander Holyfield vs. Mike Tyson II, Oscar De La Hoya vs. Floyd Mayweather Jr. and Oscar De La Hoya vs. Manny Pacquiao and at the newer T-Mobile Arena with Canelo Álvarez vs. Amir Khan.

Along with significant rises in popularity in mixed martial arts (MMA), a number of fight leagues such as the UFC have taken interest in Las Vegas as a primary event location due to the number of suitable host venues. The Mandalay Bay Events Center and MGM Grand Garden Arena are among some of the more popular venues for fighting events such as MMA and have hosted several UFC and other MMA title fights. The city has held the most UFC events with 86 events.

The state is also home to the Las Vegas Motor Speedway, which hosts NASCAR's Pennzoil 400 and South Point 400. Two venues in the immediate Las Vegas area host major annual events in rodeo. The Thomas & Mack Center, built for UNLV men's basketball, hosts the National Finals Rodeo. The PBR World Finals, operated by the bull riding-only Professional Bull Riders, was also held at the Thomas & Mack Center before moving to T-Mobile Arena in 2016.

The state is also home to famous tennis player, Andre Agassi, and current baseball superstar Bryce Harper.

List of teams

[edit]

Major professional teams

[edit]

Team	Sport	League	Venue (capacity)	Established	Titles
Las Vegas Raiders	Football	NFL	Allegiant Stadium (65,000)	2020	3[f]
Vegas Golden Knights	Ice hockey	NHL	T-Mobile Arena (17,500)	2017	1
Las Vegas Aces	Women's basketball	WNBA	Michelob Ultra Arena (12,000)	2018	2

Minor professional teams

[edit]

Team	Sport	League	Venue (capacity)	Established	Titles
Las Vegas Aviators	Baseball	MiLB (AAA–PCL)	Las Vegas Ballpark (10,000)	1983	2
Reno Aces			Greater Nevada Field (9,013)	2009	2
Vegas Royals	Basketball	ABA		0	
Henderson Silver Knights		AHL	Dollar Loan Center (5,567)	2020	0
Tahoe Knight Monsters	Ice hockey	ECHL	Tahoe Blue Event Center (5,000)	2024	0
Las Vegas Lights FC	Soccer	USLC	Cashman Field (9,334)	2018	0
			Damonte Ranch High School (N/A)		
Nevada Storm	Women's football	WFA	Fernley High School (N/A)	2008	0
			Galena High School (N/A)		
Sin City Trojans			Desert Pines High School (N/A)		0
Vegas Knight Hawks	Indoor football	IFL	Dollar Loan Center (6,019)		0
Las Vegas Desert Dogs	Box lacrosse	NLL	Michelob Ultra Arena (12,000)	2021	0

Amateur teams

[edit]

Team	Sport	League	Venue (capacity)	Established	Titles
Reno Ice Raiders		MWHL	Reno Ice	2015	0
Vegas Jesters	Ice hockey			2012	0
Las Vegas Thunderbirds		USPHL	City National Arena (600)	2019	0
Las Vegas Legends	Soccer	NPSL	Peter Johann Memorial Field (2,500)	2021	0

Nevada Coyotes FC	USPL	Rio Vista Sports Complex (N/A)	2016	0
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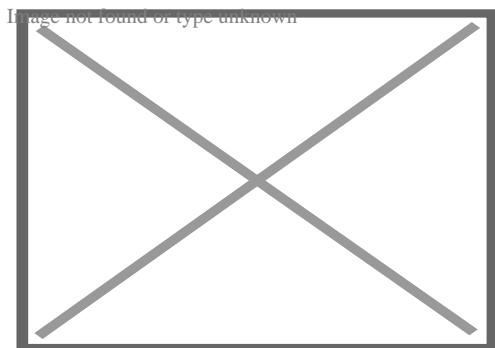
College teams

[edit]

School	Team	League	Division	Conference
University of Nevada, Las Vegas (UNLV)	UNLV Rebels	NCAA	NCAA Division I	Mountain West
University of Nevada, Reno (UNR)	Nevada Wolf Pack			
College of Southern Nevada (CSN)	CSN Coyotes	NJCAA	NJCAA Division I	Scenic West
Western Nevada College (WNC)	WNC Wildcats			

Military

[edit]



A map that details the [federal land](#) in southern Nevada, showing [Nellis Air Force Base Complex](#) and [Nevada Test Site](#)

Several [United States Navy](#) ships have been named [USS Nevada](#) in honor of the state. They include:

- [Nevada \(1865 screw frigate\)](#)
- [USS Nevada \(BM-8\)](#)
- [USS Nevada \(BB-36\)](#)
- [USS Nevada \(SSBN-733\)](#)

Area 51 is near Groom Lake, a dry salt lake bed. The much smaller Creech Air Force Base is in Indian Springs, Nevada; Hawthorne Army Depot in Hawthorne; the Tonopah Test Range near Tonopah; and Nellis AFB in the northeast part of the Las Vegas Valley. Naval Air Station Fallon in Fallon; NSAWC, (pronounced "EN-SOCK") in western Nevada. NSAWC consolidated three Command Centers into a single Command Structure under a flag officer on July 11, 1996. The Naval Strike Warfare Center based at NAS Fallon since 1984, was joined with the Navy Fighter Weapons School (TOPGUN) and the Carrier Airborne Early Warning Weapons School, which both moved from NAS Miramar as a result of a Base Realignment and Closure decision in 1993 which transferred that installation back to the Marine Corps as MCAS Miramar. The Seahawk Weapon School was added in 1998 to provide tactical training for Navy helicopters.

These bases host a number of activities including the Joint Unmanned Aerial Systems Center of Excellence, the Naval Strike and Air Warfare Center, Nevada Test and Training Range, Red Flag, the U.S. Air Force Thunderbirds, the United States Air Force Warfare Center, the United States Air Force Weapons School, and the United States Navy Fighter Weapons School.

See also

[edit]

- [flag Nevada portal](#)
- [flag United States portal](#)
- [Index of Nevada-related articles](#)
- [Outline of Nevada – organized list of topics about Nevada](#)
- [List of people from Nevada](#)

Notes

[edit]

1. ^ **a b** Elevation to North American Vertical Datum of 1988
2. ^ The distinction of highest point in Nevada goes to the summit of Boundary Peak, so named because it is very near the Nevada–California border, at the northern terminus of the White Mountains. However, Boundary Peak can be considered a subsidiary summit of Montgomery Peak, whose summit is in California, since the topographic prominence of Boundary Peak is only 253 feet (77 m), which falls under the often used 300-foot (91 m) cutoff for an independent peak. Also, Boundary Peak is less than 1 mile (1.6 km) away from its higher neighbor. Hence Boundary Peak can be described as not being wholly within Nevada. By contrast, the prominence of Wheeler Peak, 13,063 feet (3,982 m), is quite large and in fact it is the twelfth largest in the contiguous United

States. Wheeler Peak is the highest point in a radius of more than 200 square miles (520 km²) and is entirely within the state of Nevada.

3. ^ Also sometimes placed in the [Mountain West](#) and [Southwestern United States](#)
4. ^ The National Archives press release states that the cost was \$4,313.27, but the amount \$4,303.27 is actually written on the document.
5. ^ Persons of Hispanic or Latino origin are not distinguished between total and partial ancestry.
6. ^ Two titles were won when the team was based in [Oakland, California](#) and one was won when they were based in [Los Angeles, California](#).

References

[edit]

1. ^ "Boundary". NGS Data Sheet. [National Geodetic Survey, National Oceanic and Atmospheric Administration, United States Department of Commerce](#). Retrieved October 20, 2011.
2. ^ a b "Elevations and Distances in the United States". [United States Geological Survey](#). 2009. Archived from [the original](#) on October 15, 2011. Retrieved October 24, 2011.
3. ^ "United States Census Quick Facts Nevada". Retrieved January 9, 2025.
4. ^ "Household Income in States and Metropolitan Areas: 2023" (PDF). Retrieved January 12, 2025.
5. ^ "Nevada". [Merriam-Webster.com Dictionary](#). Merriam-Webster.
6. ^ Wells, John C. (2008). [Longman Pronunciation Dictionary](#) (3rd ed.). Longman. ISBN 978-1-4058-8118-0.
7. ^ "Metropolitan and Micropolitan Statistical Areas Population Totals: 2010-2017". 2017 Population Estimates. [United States Census Bureau, Population Division](#). Archived from [the original](#) on September 26, 2018. Retrieved March 2, 2019.
8. ^ "City and Town Population Totals: 2010-2017". [United States Census Bureau](#). Archived from [the original](#) on March 28, 2019. Retrieved March 2, 2019.
9. ^ "The Almanac of American Politics on Nevada and Lombardo". July 13, 2023.
10. ^ Rines, George Edwin, ed. (1920). "Sage-brush State". [Encyclopedia Americana](#).
11. ^ Federal Land Ownership: Overview and Data (Report). [Congressional Research Service](#). February 21, 2020. Retrieved September 8, 2024.
12. ^ Rocha, Guy "Myth No. 12 – Why Did Nevada Become a State?" Archived October 24, 2013, at the [Wayback Machine](#), Nevada State Library and Archives, accessed January 9, 2011
13. ^ "Race and Hispanic Origin: 1790 to 1990 by State" (PDF). US Census. Archived from [the original](#) (PDF) on November 21, 2014. Retrieved July 16, 2014.
14. ^ Bill Bible (August 11, 2000). "Protect gaming's legacy". [Las Vegas Sun](#). Where I Stand (opinion). Archived from [the original](#) on July 12, 2017. Retrieved March 17, 2023.
15. ^ Jain, Priya (July 21, 2010). "Betty Goes Reno". [Slate](#). ISSN 1091-2339. Archived from [the original](#) on December 29, 2017. Retrieved March 17, 2023.

16. ^ "Nevada Employment & Unemployment Estimates for November 2010" Archived May 25, 2017, at the Wayback Machine, Nevada Department of Employment, Training, and Rehabilitation.
17. ^ "Mining FAQs". Nevada Mining Association. February 23, 2018. Archived from the original on January 23, 2018. Retrieved March 17, 2023.
18. ^ Bornstein, Seth (February 15, 2022). "West megadrought worsens to driest in at least 1,200 years". Las Vegas Sun. Associated Press. Archived from the original on March 6, 2022. Retrieved September 12, 2022.
19. ^ "Nevada". WordReference.com. Archived from the original on December 25, 2007. Retrieved February 24, 2007.
20. ^ "Nevada". Online Etymology Dictionary. Archived from the original on September 1, 2021. Retrieved September 1, 2021.
21. ^ McCabe, Francis (October 18, 2018). "You Say Nevada, I Say Nevada...". University of Nevada, Las Vegas. Archived from the original on August 1, 2019. Retrieved November 26, 2019.
22. ^ Ladefoged, Peter; Johnson, Keith (2010), A Course in Phonetics (6th ed.), Boston, Massachusetts: Wadsworth Publishing, p. 227, ISBN 978-1-4282-3126-9
23. ^ Wells, John C. (1982). Accents of English. Vol. 3: Beyond the British Isles (pp. i–xx, 467–674). Cambridge University Press. doi:10.1017/CBO9780511611766. ISBN 0-52128541-0.. Page 476.
24. ^ Clifton, Guy (August 22, 2010). "You heard it right: Bill would let them say Ne-VAH-da" . Reno Gazette-Journal.
25. ^ "Nevada: A World Within. A State Apart. | Nevada Travel & Tourism". Travel Nevada. Archived from the original on December 29, 2013. Retrieved October 7, 2016.
26. ^ "Nevada Tourism License Plate". Nevada Department of Motor Vehicles. Archived from the original on July 3, 2019. Retrieved July 3, 2019.
27. ^ "History of Nevada". Archived from the original on November 6, 2021. Retrieved March 14, 2022.
28. ^ Sapp, Rick (October 16, 2018). Native Americans State by State. Book Sales. ISBN 9780785835875. Archived from the original on April 17, 2022. Retrieved March 25, 2022
29. ^ "Explorers and Settlers in Nevada" (PDF). Washoe County School District. p. 2. Archived (PDF) from the original on July 16, 2011. Retrieved May 20, 2010.
30. ^ "Online Etymology Dictionary". Archived from the original on June 6, 2011. Retrieved May 20, 2010.
31. ^ Zorn, Roman J.; McNamee, Gregory Lewis; et al. (2023). "Nevada". Britannica. Retrieved March 17, 2023.
32. ^ "The U.S. Congress admits Nevada as the 36th state". The History Channel. October 29, 2020. Retrieved September 30, 2023.
33. ^ "National Archives Celebrates the 145th Anniversary of Nevada Statehood". National Archives of the United States. September 23, 2009. Archived from the original on October 20, 2011. Retrieved November 4, 2011.

34. ^ Rocha Guy, *Historical Myth a Month: Why Did Nevada Become A State?* Archived January 13, 2008, at the Wayback Machine
35. ^ Tannenbaum, Austin (March 10, 2023). "Did Nevada's original southern boundary exclude Las Vegas?". *The Nevada Independent*. Retrieved December 1, 2024.
36. ^ Coffin, Laura A. (9 March 2012). *The Bottle Houses of the Old West (archive)*. New Bedford Museum of Glass. Retrieved 13 February 2024. "In 1906, at the age of 76...[Tom Kelly] laid all the bottles on their sides, with the bottoms facing out, and mortared them together with adobe mud."
37. ^ Moe, Al W. *Nevada's Golden Age of Gambling*, Puget Sound Books Archived March 13, 2020, at the Wayback Machine, 2002, p. 18
38. ^ a b National Climatic Data Center, Asheville, N.C., and Storm Phillips, Stormfax, Inc.
39. ^ "Nevada Mountains". PeakVisor. Retrieved March 17, 2023.
40. ^ Osborn, Liz. "Driest states". Currentresults.com. Archived from the original on January 17, 2013. Retrieved January 17, 2013.
41. ^ "Nevada climate averages". Weatherbase. Archived from the original on October 9, 2015. Retrieved November 11, 2015.
42. ^ Federal Writers' Project (1940). *Nevada: a guide to the Silver state*. US History Publishers. p. 11. ISBN 978-1-60354-027-8.
43. ^ a b "Political History of Nevada". Nevada State Library and Archives. Archived from the original on September 27, 2007. Retrieved August 17, 2007.
44. ^ "Visitors". Clarkcountynv.gov. Archived from the original on July 17, 2014. Retrieved July 27, 2014.
45. ^ *Laws of the Territory of Nevada passed at the first regular session of the Legislative Assembly*. San Francisco, CA: Valentine & Co. 1862. pp. 289–291. Archived from the original on July 7, 2014. Retrieved May 14, 2014.
46. ^ "Nevada's Census Population By County 2020 and 2022". Archived from the original on April 22, 2022. Retrieved July 2, 2023.
47. ^ "2020 Nevada QuickFacts". U.S. Census Bureau. August 18, 2021. Archived from the original on April 22, 2022. Retrieved April 12, 2022.
48. ^ "Wilderness.net". Wilderness.net. Archived from the original on July 22, 2010. Retrieved July 31, 2010.
49. ^ O'Daly, Lisa. "Van Sickle Bi-State Park – Sierra Nevada Geotourism MapGuide". Sierranevadageotourism.org. Archived from the original on September 26, 2018. Retrieved September 25, 2018.
50. ^ "Historical Population Change Data (1910–2020)". Census.gov. United States Census Bureau. Archived from the original on April 29, 2021. Retrieved May 1, 2021.
51. ^ "QuickFacts Nevada; United States". 2022 Population Estimates. United States Census Bureau, Population Division. July 1, 2022. Archived from the original on April 6, 2022. Retrieved January 2, 2023.
52. ^ "Cumulative Estimates of the Components of Resident Population Change for the United States, Regions, States, and Puerto Rico: April 1, 2020 to July 1, 2021" (xlsx). U.S. Census Bureau. December 21, 2021. Archived from the original on March 24, 2022. Retrieved April 12, 2022.

53. ^ "Download the Centers of Population by State: 2020" (txt). U.S. Census Bureau. Archived from the original on April 1, 2022. Retrieved April 12, 2022.
54. ^ "Pahrump CDP QuickFacts from the US Census Bureau". Quickfacts.census.gov. Archived from the original on May 9, 2022. Retrieved April 12, 2022.
55. ^ Aisch, Gregor; Gebeloff, Robert; Quealy, Kevin (August 14, 2014). "Where We Came from and Where We Went, State by State". The New York Times. Archived from the original on March 31, 2019. Retrieved March 16, 2019.
56. ^ "2007-2022 PIT Counts by State".
57. ^ "The 2022 Annual Homelessness Assessment Report (AHAR) to Congress" (PDF).
58. ^ "P004HISPANIC OR LATINO, AND NOT HISPANIC OR LATINO BY RACE [73] - Nevada". United States Census Bureau.
59. ^ "P2 HISPANIC OR LATINO, AND NOT HISPANIC OR LATINO BY RACE - 2010: DEC Redistricting Data (PL 94-171) - Nevada". United States Census Bureau.
60. ^ "P2 HISPANIC OR LATINO, AND NOT HISPANIC OR LATINO BY RACE - 2020: DEC Redistricting Data (PL 94-171) - Nevada". United States Census Bureau.
61. ^ "Race and Ethnicity in the United States: 2010 Census and 2020 Census". census.gov. United States Census Bureau. August 12, 2021. Archived from the original on August 15, 2021. Retrieved September 26, 2021.
62. ^ "Grid View: Table B03001 - Census Reporter". censusreporter.org. Retrieved June 28, 2024.
63. ^ "Grid View: Table B04006 - Census Reporter". censusreporter.org. Retrieved June 28, 2024.
64. ^ "Grid View: Table B02018 - Census Reporter". censusreporter.org. Retrieved June 28, 2024.
65. ^ a b c "Historical Census Statistics on Population Totals By Race, 1790 to 1990, and By Hispanic Origin, 1970 to 1990, For The United States, Regions, Divisions, and States". Census.gov. Archived from the original on July 25, 2008. Retrieved July 27, 2014.
"Table 43. Nevada Race and Hispanic Origin: 1860 to 1990 Archived May 14, 2015, at the Wayback Machine". (PDF)
66. ^ "Profile of General Demographic Characteristics: 2000 Archived July 24, 2017, at the Wayback Machine" (PDF). United States Census Bureau
67. ^ "2010 Census Data". Census.gov. Archived from the original on May 22, 2017. Retrieved July 27, 2014.
68. ^ "Profile of General Population and Housing Characteristics: 2020 Demographic Profile Data (DP-1): Nevada". United States Census Bureau. Retrieved April 16, 2024.
69. ^ Exner, Rich (June 3, 2012). "Americans under age 1 now mostly minorities, but not in Ohio: Statistical Snapshot". cleveland.com. Advance Digital. Archived from the original on July 15, 2016. Retrieved March 17, 2023.
70. ^ "U.S. Census Bureau QuickFacts: Nevada". United States Census Bureau. Archived from the original on November 30, 2018. Retrieved November 29, 2018.
71. ^ "Grid View: Table B02018 - Census Reporter". censusreporter.org. Retrieved June 28, 2024.

72. ^ Steffoff, Rebecca (2010). *Nevada*. Marshall Cavendish. ISBN 9780761447283. Archived from the original on February 20, 2021. Retrieved October 19, 2020.
73. ^ Shepperson, Wilbur (1970). "The Immigrant in Nevada's Short Stories and Biographical Essays" (PDF). *Nevada Historical Society Quarterly*. 13 (3): 3. Archived (PDF) from the original on July 26, 2021. Retrieved July 26, 2021.
74. ^ "Immigration and Ethnic Diversity in Nevada* Introduction".
75. ^ "A HISTORICAL OVERVIEW OF IMMIGRATION IN NEVADA".
76. ^ "History of Nevada Indians **". Archived from the original on February 17, 2020. Retrieved February 17, 2020.
77. ^ "Census data shows communities of color are the new Nevada". August 16, 2021.
78. ^ "Census: Nevada ranks high in diversity, Hispanics fuel growth". August 12, 2021.
79. ^ Tuman, John; Damore, David; Agreda, Maria (June 1, 2013). "Immigration and the Contours of Nevada's Latino Population". Brookings Mountain West Publications: 1–18.
80. ^ "First cut on census data: Nevada is diversifying, but it's complicated". Guinn Center For Policy Priorities. August 25, 2021.
81. ^ "Immigrants in Nevada". June 2015. Archived from the original on February 24, 2020. Retrieved March 15, 2020.
82. ^ "Desert, Wildlife, Flora". Encyclopedia Britannica. July 26, 1999.
83. ^ "Nevada". info-america-usa.com.
84. ^ "Hawaii is most diverse state in the US, census shows". The Hill. August 12, 2021.
85. ^ "Census: Nevada becomes more populous and diverse, but growth slows". August 12, 2021.
86. ^ "data" (PDF). www.cdc.gov. Archived (PDF) from the original on September 25, 2018. Retrieved September 25, 2018.
87. ^ "data" (PDF). www.cdc.gov. Archived (PDF) from the original on September 26, 2018. Retrieved September 25, 2018.
88. ^ "data" (PDF). www.cdc.gov. Archived (PDF) from the original on September 26, 2018. Retrieved September 25, 2018.
89. ^ "data" (PDF). www.cdc.gov. Archived (PDF) from the original on June 3, 2018. Retrieved May 5, 2018.
90. ^ "Births: Final Data for 2017" (PDF). Archived (PDF) from the original on February 1, 2019. Retrieved February 21, 2019.
91. ^ "Data" (PDF). www.cdc.gov. Archived (PDF) from the original on November 28, 2019. Retrieved December 21, 2019.
92. ^ "Data" (PDF). www.cdc.gov. Archived (PDF) from the original on June 23, 2021. Retrieved March 30, 2021.
93. ^ "Data" (PDF). www.cdc.gov. Archived (PDF) from the original on February 10, 2022. Retrieved February 20, 2022.
94. ^ "Data" (PDF). www.cdc.gov. Retrieved February 3, 2022.
95. ^ "Data" (PDF). www.cdc.gov. Retrieved April 5, 2024.
96. ^ "\$1.3 billion for 288 jobs: The failure of government-subsidized renewable energy". Nevadabusiness.com. October 1, 2012. Archived from the original on January 17, 2013. Retrieved January 17, 2013.

97. ^ Robison, Jennifer (May 3, 2014). "*Before mining and gambling, ranching shaped Nevada's culture*". Las Vegas Review-Journal. Archived from the original on November 7, 2014. Retrieved November 7, 2014.
98. ^ "2022 American Values Atlas: Religious Tradition". Public Religion Research Institute. February 24, 2023. Retrieved March 30, 2023.
99. ^ "Mississippians Go to Church the Most; Vermonters, Least". Gallup.com. February 17, 2010. Archived from the original on September 27, 2013. Retrieved July 27, 2014.
100. ^ "PRRI – American Values Atlas". ava.prri.org. Retrieved September 17, 2022.
101. ^ "Religious Landscape Study". Pew Research Center's Religion & Public Life Project. Retrieved September 17, 2022.
102. ^ "The Association of Religion Data Archives | State Membership Report". www.thearda.com. Archived from the original on December 2, 2013. Retrieved November 22, 2013.
103. ^ "Nevada | Data USA".
104. ^ Summers, Keyonna (October 15, 2021). "Preserve Nevada: Indigenous Languages, Cultural Landmarks Among State's 'Most Endangered'". UNLV News Center. University of Nevada, Las Vegas. Archived from the original on April 24, 2022.
105. ^ AB 246 Ballots for All: Improving Language Access for Nevada Voters (March 28, 2023). Presented by Selena Torres, Assemblywoman (D, NV-3) as an exhibit during debate on Assembly Bill 248. Presentation archived from the original March 30, 2023. (Note: AB 246 passed was passed by the legislature but vetoed by Governor Joe Lombardo.)
106. ^ "Nevada Indian Tribes and Languages". www.native-languages.org. Retrieved September 2, 2024.
107. ^ "American Indian and Alaska Native Tribes in the United States and Puerto Rico: 2010".
108. ^ Frank, Dave. "Western Region Gold Deposits (completed project)". Archived from the original on June 7, 2013. Retrieved August 17, 2013.
109. ^ "Bureau of Economic Analysis". Bea.gov. Archived from the original on January 16, 2013. Retrieved January 17, 2013.
110. ^ "GDP by State". Greyhill Advisors. Archived from the original on January 13, 2013. Retrieved September 23, 2011.
111. ^ "GDP and Personal Income". Regional Data. Bureau of Economic Analysis. Archived from the original on March 29, 2019. Retrieved April 25, 2019.
112. ^ "Per Capita Personal Income by State, Annual". FRED. St. Louis, MO: Federal Reserve Bank of St. Louis. Archived from the original on July 13, 2021. Retrieved July 13, 2021.
113. ^ ""The 34th worst state" Truth in Accounting" (PDF). statedatalab.org. Archived (PDF) from the original on August 10, 2014. Retrieved July 27, 2014.
114. ^ "Nevada Economy at a Glance". U.S. Bureau of Labor Statistics. United States Department of Labor. Archived from the original on July 13, 2021. Retrieved July 13, 2021.

115. ^ Harding, Adella (August 17, 2023). "Gold Production in Nevada slips in 2022". *Elko Daily Free Press*. Archived from the original on November 26, 2023. Retrieved November 26, 2023.
116. ^ Sheaffer, Kristin N. (January 31, 2023). *Mineral Commodity Summaries 2023* (PDF). Reston, Virginia: U.S. Geological Survey. pp. 80–81. ISBN 978-1-4113-4504-1. Retrieved November 26, 2023.
117. ^ Robison, Jennifer (May 3, 2014). "Before mining and gambling, ranching shaped Nevada's culture". *Las Vegas Review-Journal*. Archived from the original on December 29, 2024.
118. ^ **a b** National Agricultural Statistics Service (2022). *Census of Agriculture State Profile: Nevada* (PDF) (Report). Washington, D.C.: United States Department of Agriculture. Archived (PDF) from the original on April 4, 2024.
119. ^ "Nevada's Largest Employers – Statewide Archived April 25, 2012, at the Wayback Machine." Nevada Workforce Informer. Nevada Department of Employment, Training and Rehabilitation.
120. ^ Rogers, Carl (September 2005). *Pictures of Highway Shields: Nevada!*. Lulu.com. ISBN 9781411663183.
121. ^ Hernandez, Dan (January 13, 2016). "Nevada solar industry collapses after state lets power company raise fees". *The Guardian*. ISSN 0261-3077. Retrieved March 17, 2023.
122. ^ "Congress works to revive long-delayed plan to store nuclear waste in Yucca Mountain". USA Today. June 3, 2018. Archived from the original on August 1, 2019. Retrieved November 14, 2019.
123. ^ Holder, Sarah (March 13, 2018). "For Low-Income Renters, the Affordable Housing Gap Persists". Bloomberg. Archived from the original on January 31, 2022. Retrieved December 6, 2021.
124. ^ "Can Nevadans afford Nevada? A look at the state's housing, rental markets". FOX5 Las Vegas. Archived from the original on December 6, 2021. Retrieved December 6, 2021.
125. ^ "American Community Survey (ACS)". Census.gov. Archived from the original on December 5, 2021. Retrieved December 6, 2021.
126. ^ "Affordable Housing - Nevada HAND | Affordable Housing | Las Vegas". Nevada HAND. Archived from the original on December 6, 2021. Retrieved December 6, 2021.
127. ^ "School Choice: Full Education Competition Comes To Nevada". Investors Business Daily. June 1, 2015. Archived from the original on July 15, 2015. Retrieved June 2, 2015
128. ^ "Nevada – Education Savings Accounts". Edchoice. Archived from the original on July 7, 2015. Retrieved June 5, 2015.
129. ^ "Nevada". U.S. Census Bureau – Nevada. U.S. Census Bureau. Archived from the original on June 15, 2020. Retrieved July 28, 2021.
130. ^ "Nevada Aerospace Hall of Fame". Nvahof.org. Archived from the original on January 17, 2013. Retrieved January 17, 2013.
131. ^ **a b** NV Const. art. V, § 1.
132. ^ NV Const. art. V, § 5.

133. ^ Stewart, Michael J. "*The Structure of Government: Executive Branch*" (PDF). Nevada Legislative Counsel Bureau. Retrieved September 12, 2023.
134. ^ Price, Michelle L. (December 18, 2018). "*Nevada becomes 1st US state with female-majority Legislature*". Associated Press. Archived from the original on December 20, 2018. Retrieved December 20, 2018.
135. ^ "*Court of Appeals*". Nevada Judiciary. Archived from the original on August 12, 2017. Retrieved August 12, 2017.
136. ^ Lawrence M. Friedman, *American Law in the Twentieth Century* (New Haven: Yale University Press, 2002), pp. 596–597.
137. ^ "*Nevada's divorce rate exceeds national average – News – ReviewJournal.com*". Lvrj.com. August 25, 2011. Archived from the original on May 24, 2013. Retrieved January 17, 2013.
138. ^ "*The Tax Foundation – Tax Research Areas > Nevada*". Tax Foundation. Archived from the original on June 22, 2012. Retrieved September 15, 2010.
139. ^ Nicholas Shaxson: *Treasure Islands, Tax Havens and the Men Who Stole the World*; The Bodley Head, London, 2011
140. ^ "*Sales Tax Map*" (PDF). Archived from the original (PDF) on January 29, 2013. Retrieved May 4, 2013.
141. ^ "*Taxation Publications*". Tax.state.nv.us. Archived from the original on August 13, 2010. Retrieved July 31, 2010.
142. ^ "*The Agony and Ecstasy – and 'Disgrace' – of Steve Jobs*". The Nation. November 9, 2011. Archived from the original on January 23, 2013. Retrieved January 17, 2013.
143. ^ "*Nevada Interest Rates Laws*". Archived from the original on December 31, 2021. Retrieved December 31, 2021.
144. ^ "*Initiative to Regulate and Tax Marijuana*". Nevada Secretary of State. April 23, 2014. Archived from the original on August 17, 2016. Retrieved May 23, 2016.
145. ^ "*Las Vegas, Nevada "Possession of a Controlled Substance (Drug)" Laws*". www.shouselaw.com. Archived from the original on November 27, 2018. Retrieved November 26, 2018.
146. ^ "*Addiction and Mental Health in Nevada*". Desert Hope. Archived from the original on January 11, 2021. Retrieved January 28, 2021.
147. ^ "*State smoking ban sparks zone-change request for Gardnerville parcel Nevada Appeal serving Carson City, Nevada*". Nevadaappeal.com. October 6, 2007. Archived from the original on December 11, 2011. Retrieved July 31, 2010.
148. ^ "*Have Nevada bars given up the smoking habit?*". Kvbc.com. Archived from the original on September 29, 2011. Retrieved July 31, 2010.
149. ^ "*Black & LoBello smoking ban loosened Archives " Black & LoBello*". Blacklobellolaw.com. June 17, 2011. Archived from the original on November 29, 2014. Retrieved July 27, 2014.
150. ^ "*Overview of Nevada's Correctional System*". NICIC. January 4, 2009. Archived from the original on February 16, 2008. Retrieved January 4, 2009.
151. ^ "*2013 Crime In Nevada Annual Report*" (PDF). NV Repository. 2013. Archived from the original (PDF) on November 29, 2014. Retrieved November 21, 2014.

152. ^ "Voter Registration Statistics". Retrieved March 19, 2025.
153. ^ "Clark County 2024 General Election Results".
154. ^ "Political History of Nevada" (PDF).
155. ^ "2014 Attorney General General Election Results". *Dave Leip's Atlas of U.S. Presidential Elections*. Archived from the original on July 9, 2021. Retrieved July 6, 2021
156. ^ "2012 vs 1960". Daily Kos. November 9, 2012. Archived from the original on March 9, 2013. Retrieved January 17, 2013.
157. ^ "Not a fan of any candidate? In Nevada, you can vote for 'None of These Candidates'". PBS NewsHour. October 18, 2016. Archived from the original on September 12, 2018. Retrieved September 12, 2018.
158. ^ Pomante II, Michael J.; Li, Quan (December 15, 2020). "Cost of Voting in the American States: 2020". *Election Law Journal: Rules, Politics, and Policy*. 19 (4): 503–509. doi:10.1089/elj.2020.0666. ISSN 1533-1296. S2CID 225139517.
159. ^ "Nevada Gaming Abstract 2022". Nevada Gaming Control Board. 2022. Retrieved January 17, 2024.
160. ^ "State-by-State Fact Sheets on Lodging Industry". Archived from the original on May 2, 2010.
161. ^ "Oakland A's close in on move to Las Vegas after signing land deal for stadium". The Guardian. April 20, 2023. ISSN 0261-3077. Retrieved April 20, 2023.
162. ^ Dubow, Josh (April 20, 2023). "Oakland A's purchase land for new stadium in Las Vegas". SFGATE. Retrieved April 20, 2023.

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-  [Travel information](#) from Wikivoyage

- "[Nevada](#)" (official state website).
- "[Nevada State Guide](#)". Library of Congress.
- "[Nevada State Databases](#)". ALA. Archived from the original on January 6, 2014. Retrieved May 11, 2008. Annotated list of searchable databases produced by Nevada

state agencies and compiled by the Government Documents Roundtable of the American Library Association.

- [State Tourism website](#)
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- Summerlin South
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- Winnemucca

- Former counties**
- Bullfrog
 - Ormsby
 - Roop

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Protected areas of Nevada

National Parks and Monuments

- Avi Kwa Ame NM (BLM)
- Basin and Range NM (BLM)
- Death Valley NP
- Gold Butte NM (BLM)
- Great Basin NP
- Tule Springs Fossil Beds NM

National Recreation Areas

- Lake Mead
- Spring Mountains (USFS)

National Forests

- Humboldt-Toiyabe
- Inyo
- Lake Tahoe Basin

National Conservation Areas

- Black Rock Desert–High Rock Canyon Emigrant Trails
- Red Rock Canyon
- Sloan Canyon

- Alta Toquima
- Arc Dome
- Arrow Canyon
- Bald Mountain
- Becky Peak
- Big Rocks
- Black Canyon
- Black Rock Desert
- Boundary Peak
- Bridge Canyon
- Bristlecone
- Calico Mountains
- Clover Mountains
- Currant Mountain
- Death Valley
- Delamar Mountains
- East Fork High Rock Canyon
- East Humboldt
- Eldorado
- Far South Egans
- Fortification Range
- Goshute Canyon
- Government Peak
- Grant Range
- High Rock Canyon

	Historic Parks
	Recreation Areas
State	
Other	
Previous	

- Elgin Schoolhouse
- Fort Churchill
- Mormon Station
- Old Las Vegas Mormon Fort
- Ward Charcoal Ovens

- Big Bend of the Colorado
- Lahontan
- Rye Patch
- South Fork
- Walker River
- Wild Horse

- Beaver Dam
- Berlin–Ichthyosaur
- Cathedral Gorge
- Cave Lake
- Dayton
- Echo Canyon
- Ice Age Fossils
- Kershaw–Ryan
- Lake Tahoe–Nevada
- Spring Mountain Ranch
- Spring Valley
- Valley of Fire
- Van Sickle
- Washoe Lake

- Belmont Courthouse
- Floyd Lamb
- Walker Lake

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o e

Western United States

Regions

- o Rocky Mountains
- o Great Basin
- o West Coast
- o Pacific Northwest
- o Mountain States

States

- o Alaska
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- o Montana
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- o Utah
- o Washington
- o Wyoming

Territories

- o American Samoa
- o Guam
- o Northern Mariana Islands

Major metropolitan areas

- Los Angeles
- Phoenix
- San Francisco Bay Area
 - San Jose–Oakland
- San Bernardino-Riverside
- Seattle
- San Diego
- Denver
- Portland
- Las Vegas
- Sacramento
- Salt Lake City
- Honolulu
 - Oāfǣtâ€™Ãfâ€¹Ã,Â ÄfǣÃ¢,¬Å¡Ãfâ€šÃ,Â»ahu
- Albuquerque
 - Santa Fe
- Anchorage

Major cities (over 300k)

- Albuquerque
- Anaheim
- Aurora
- Bakersfield
- Colorado Springs
- Denver
- Fresno
- Henderson
- Honolulu
- Las Vegas
- Long Beach
- Los Angeles
- Mesa
- Oakland
- Phoenix
- Portland
- Riverside
- Sacramento
- San Diego
- San Francisco
- San Jose
- Santa Ana
- Seattle
- Stockton
- Tucson

State capitals

- Boise
- Carson City
- Cheyenne
- Denver
- Helena
- Honolulu
- Juneau
- Olympia
- Phoenix
- Sacramento
- Salem
- Salt Lake City
- Santa Fe

Territorial capitals

- Hagåtña
- Pago Pago
- Saipan

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- Spanish conquest of the Aztec Empire ?
- Spanish conquest of Guatemala ?
- Spanish conquest of Yucatán ?
- Anglo-Spanish War (1585–1604) ?
- Anglo-Spanish War (1625–1630) ?
- Dutch Revolt ?
- Anglo-Spanish War (1654–1660) ?
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- Queen Anne's War ?
- War of Jenkins' Ear ?
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- Spain and the American Revolutionary War

Conflicts

Conflicts with indigenous peoples during colonial rule

- Mixtón War ?
- Yaqui Wars ?
- Chichimeca War ?
- Philippine revolts against Spain ?
- Acaxee Rebellion ?
- Spanish–Moro conflict ?
- Acoma Massacre ?
- Tepehuán Revolt ?
- Tzeltal Rebellion ?
- Pueblo Revolt ?
- Pima Revolt ?
- Spanish American wars of independence

Central government and administration

- Habsburg Spain**
 - Charles I
 - Joanna of Castile
 - Philip II
 - Philip III
 - Philip IV
 - Charles II

- Bourbon Spain**
 - Philip V (also reigned after Louis I)
 - Louis I
 - Ferdinand VI
 - Charles III
 - Charles IV
 - Ferdinand VII of Spain (also reigned after Joseph I)

- Viceroy of New Spain**
 - List of viceroys of New Spain

- Audiencias**
 - Guadalajara
 - Captaincy General of Guatemala
 - Manila
 - Mexico
 - Santo Domingo

- Captancies General**
 - Cuba
 - Guatemala
 - Philippines
 - Puerto Rico
 - Santo Domingo
 - Yucatán
 - Provincias Internas

- Intendancy**
 - Havana
 - New Orleans
 - State of Mexico
 - Chiapas
 - Comayagua
 - Nicaragua
 - Camagüey
 - Santiago de Cuba
 - Guanajuato
 - Valladolid
 - Guadalajara
 - Zacatecas
 - Ciudad Real

Notable cities, provinces, and territories

Cities

- Mexico City
- Veracruz
- Xalapa
- Puebla
- Toluca
- Cuernavaca
- Oaxaca
- Morelia
- Acapulco
- Campeche
- Mérida
- Guadalajara
- Durango
- Monterrey
- León
- Guanajuato
- Zacatecas
- Pachuca
- Querétaro
- Saltillo
- San Luis Potosí
- Los Ángeles
- Yerba Buena (San Francisco)
- San José
- San Diego
- Santa Fe
- Albuquerque
- El Paso
- Los Adaes
- San Antonio
- Tucson
- Pensacola
- St. Augustine
- Havana
- Santo Domingo
- San Juan
- Antigua Guatemala
- Cebu
- Manila

- Louisiana
- La Florida (Florida)
- Las Californias
 - Alta California (California)
 - Baja California

Pre-New Spain explorers

- Christopher Columbus
- Ferdinand Magellan
- Juan Sebastián Elcano
- Vasco Núñez de Balboa
- Diego Velázquez de Cuéllar

Explorers, adventurers and conquistadors

Explorers and conquistadors

- Hernán Cortés
- Juan Ponce de León
- Nuño de Guzmán
- Bernal Díaz del Castillo
- Pedro de Alvarado
- Pánfilo de Narváez
- Hernando de Soto
- Francisco Vázquez de Coronado
- Juan Rodríguez Cabrillo
- Miguel López de Legazpi
- Ángel de Villafañe
- Álvar Núñez Cabeza de Vaca
- Pedro Menéndez de Avilés
- Luis de Carvajal y de la Cueva
- Juan de Oñate
- Juan José Pérez Hernández
- Gaspar de Portolá
- Manuel Quimper
- Cristóbal de Oñate
- Andrés de Urdaneta
- Ruy López de Villalobos
- Diego Velázquez de Cuéllar
- Francisco Hernández de Córdoba (Yucatán conquistador)
- Francisco Hernández de Córdoba (founder of Nicaragua)
- Gil González Dávila
- Francisco de Ulloa
- Juan José Pérez Hernández
- Dionisio Alcalá Galiano
- Bruno de Heceta
- Juan Francisco de la Bodega y Quadra
- Alonso de León
- Ignacio de Arteaga y Bazán
- José de Bustamante y Guerra
- José María Narváez
- Pedro Sarmiento de Gamboa
- Antonio Gil Y'Barbo
- Alexander von Humboldt
- Thomas Gage

Catholic Church in New Spain

Friars, fathers, priests, and bishops

- Spanish missions in Arizona
- Spanish missions in Baja California
- Spanish missions in California
- Spanish missions in the Carolinas
- Spanish missions in Florida
- Spanish missions in Georgia
- Spanish missions in Louisiana
- Spanish missions in Mexico
- Spanish missions in New Mexico
- Spanish missions in the Sonoran Desert
- Spanish missions in Texas
- Spanish missions in Virginia
- Spanish missions in Trinidad

- Pedro de Gante
- Gerónimo de Aguilar
- Toribio de Benavente Motolinia
- Bernardino de Sahagún
- Juan de Zumárraga
- Alonso de Montúfar
- Vasco de Quiroga
- Bartolomé de las Casas
- Alonso de Molina
- Diego Durán
- Diego de Landa
- Gerónimo de Mendieta
- Juan de Torquemada
- Juan de Palafox y Mendoza
- Carlos de Sigüenza y Góngora
- Eusebio Kino
- Francisco Javier Clavijero
- Junípero Serra
- Francisco Palou
- Fermín de Lasuén
- Esteban Tápis
- José Francisco de Paula Señan
- Mariano Payeras
- Sebastián Montero
- Marcos de Niza
- Francisco de Ayeta
- Antonio Margil
- Francisco Marroquín
- Manuel Abad y Queipo
- Miguel Hidalgo y Costilla
- José María Morelos

- Aztecs
- Maya
- Huastec
- Mixtec
- P'urhépecha
- Totonac
- Pipil
- Kowoj
- K'iche' / Kaqchikel
- Zapotec
- Poqomam
- Mam

- Mesoamerican**

- Arawak
- Ciboney
- Guanahatabey

- Caribbean**

- Mission Indians
- Cahuilla
- Chumash
- Cupeño
- Juaneño
- Kumeyaay
- Luiseño
- Miwok
- Mohave
- Ohlone
- Serrano
- Tongva

- California**

- Akimel O'odham
- Apache
- Hopi
- Hualapai
- Navajo
- Pueblo peoples
- Quechan
- Solano
- Tohono O'odham
- Zuni

- Oasisamerica
(Southwest
US)**

- o  Category

- o v
- o t
- o e

Political divisions of the United States

List of states and territories

- States**
- Alabama
 - Alaska
 - Arizona
 - Arkansas
 - California
 - Colorado
 - Connecticut
 - Delaware
 - Florida
 - Georgia
 - Hawaii
 - Idaho
 - Illinois
 - Indiana
 - Iowa
 - Kansas
 - Kentucky
 - Louisiana
 - Maine
 - Maryland
 - Massachusetts
 - Michigan
 - Minnesota
 - Mississippi
 - Missouri
 - Montana
 - Nebraska
 - Nevada
 - New Hampshire
 - New Jersey
 - New Mexico
 - New York
 - North Carolina
 - North Dakota
 - Ohio
 - Oklahoma
 - Oregon
 - Pennsylvania
 - Rhode Island
 - South Carolina
 - South Dakota
 - Tennessee
 - Texas
 - Utah
 - Vermont
 - Virginia
 - Washington

Federal district Washington, D.C.

- American Samoa

- Guam

Territories

- Northern Mariana Islands

- Puerto Rico

- U.S. Virgin Islands

- Baker Island

- Howland Island

- Jarvis Island

- Johnston Atoll

Outlying islands

- Kingman Reef

- Midway Atoll

- Navassa Island

- Palmyra Atoll

- Wake Island

Indian reservations

- List of Indian reservations

International concessions

- Guantanamo Bay

- Pituffik

- v
- t
- e

Sports teams based in Nevada

Australian rules football

US AFL

Las Vegas Gamblers



Baseball

PCL

Las Vegas Aviators
Reno Aces



	WNBA	
Basketball	Las Vegas Aces	
	ABA	
	Las Vegas Royals	
	Nevada Pharaohs	
	CDL	
Esports	Vegas Legion	
	OWL	
	Vegas Eternal	
	NFL	
Football	Las Vegas Raiders	
	WFA	
	Nevada Storm	
	Sin City Trojans	
	NHL	
	Vegas Golden Knights	
	AHL	
	Henderson Silver Knights	
	ECHL	
Ice hockey	Tahoe Knight Monsters	
	MWHL	
	Reno Ice Raiders	
	Vegas Jesters	
	USPHL	
	Las Vegas Thunderbirds	
Indoor football	IFL	
	Vegas Knight Hawks	
Box lacrosse	NLL	
	Las Vegas Desert Dogs	
Roller derby	WFTDA	
	Fabulous Sin City Roller Derby	

Rugby football

NARL
Las Vegas Blackjacks

Soccer

USLC
Las Vegas Lights FC
NPSL
Las Vegas Legends
UPSL
Nevada Coyotes FC

Tennis

WTT
Vegas Rollers

Volleyball

PVF
Vegas Thrill

College athletics

- NCAA Div. I
 - Nevada Wolf Pack
 - UNLV Rebels
- NJCAA Div. I
 - CSN Coyotes
 - WNC Wildcats

See also: [Sports in the Las Vegas metropolitan area](#)

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International

- ISNI
- VIAF
- FAST
- WorldCat

- National**
 - Germany
 - United States
 - Australia
 - Czech Republic
 - Spain
 - Latvia
 - Chile
 - Israel
 - Catalonia
- Geographic**
 - MusicBrainz area
- Academics**
 - CiNii
- Other**
 - IdRef
 - NARA

39°N 117°W  / 39°N 117°W

About Las Vegas

This article is about the city proper in Nevada. For the metropolitan area, see [Las Vegas Valley](#). For other uses, see [Las Vegas \(disambiguation\)](#). "Vegas" redirects here. For other uses, see [Vegas \(disambiguation\)](#).

Las Vegas is located in the United States



Las Vegas

City

Las Vegas Skyline

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Downtown Las Vegas
World Market Cen

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World Market
Center
The Strat

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The Strat
Clark County Gover

Image not found or type unknow

Clark County
Government Center
Lou Ruvo Cen

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Lou Ruvo
Center for
Brain Health
Las Vegas Strip

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Las Vegas Strip in Paradise and
Winchester, outside city limits

Flag of Las Vegas

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Flag

Official seal of Las Vegas

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Seal

Etymology: from [Spanish](#) *las vegas* 'the meadows'

Nicknames:

"Vegas", "Sin City", "City of Lights", "The Gambling Capital of the World", [\[1\]](#) "The Entertainment Capital of the World", "Capital of Second Chances", [\[2\]](#) "The Marriage Capital of the World", "The Silver City", "America's Playground", "Hawaii's Ninth Island" [\[3\]](#)[\[4\]](#)

[Map](#)

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[Map](#)

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[Map](#)

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[Map](#)

Las Vegas is located in Nevada



Coordinates: 36°10'2?N 115°8'55?W

ÃƒÆ'Ã†â€™Ãƒâ€šÃ,Ã¬ÃƒÆ'Ã¢â,¬Å¡Ãƒâ€šÃ,Ã»ÃƒÆ'Ã¢â,¬Å¡Ãƒâ€šÃ,Ã¿ /
ÃƒÆ'Ã†â€™Ãƒâ€šÃ,Ã¬ÃƒÆ'Ã¢â,¬Å¡Ãƒâ€šÃ,Ã»ÃƒÆ'Ã¢â,¬Å¡Ãƒâ€šÃ,Ã¿ 36.16722°N
115.14861°W

Country	United States
State	Nevada
County	Clark
Founded	May 15, 1905
Incorporated	March 16, 1911

Government

- **Type** Council–manager
- **Mayor** Shelley Berkley (D)
- **Mayor Pro Tem** Brian Knudsen (D)

Members

- Brian Knudsen (D)
- Victoria Seaman (R)
- Olivia Diaz (D)
- Francis Allen-Palenske (R)
- Cedric Crear (D)
- Nancy Brune (D)

• City council

• City manager	Jorge Cervantes
Area	
• City	141.91 sq mi (367.53 km ²)
• Land	141.85 sq mi (367.40 km ²)
• Water	0.05 sq mi (0.14 km ²)
• Urban	540 sq mi (1,400 km ²)
• Metro	1,580 sq mi (4,100 km ²)
Elevation	2,001 ft (610 m)
Population	
• City	641,903
• Rank	75th in North America 24th in the United States [6] 1st in Nevada
• Density	4,525.16/sq mi (1,747.17/km ²)
• Urban	2,196,623 (US: 21st)
• Urban density	5,046.3/sq mi (1,948.4/km ²)
• Metro	2,265,461 (US: 29th)
• [7]	
Demonym	Las Vegan
GDP	
• Metro	\$160.728 billion (2022)
Time zone	UTC?08:00 (PST)
• Summer (DST)	UTC?07:00 (PDT)
ZIP Codes	89044, 89054, 891xx
Area code(s)	702 and 725
FIPS code	32-40000
GNIS feature ID	847388
Website	lasvegasnevada.gov

Las Vegas, [a] colloquially referred to as **Vegas**, is the most populous city in the **U.S. state** of **Nevada** and the **seat** of **Clark County**. The **Las Vegas Valley** metropolitan area is the largest

within the greater Mojave Desert, and second-largest in the Southwestern United States. According to the United States Census Bureau, the city had 641,903 residents in 2020,[9] with a metropolitan population of 2,227,053,[10] making it the 24th-most populous city in the United States. Las Vegas is an internationally renowned major resort city, known primarily for its gambling, shopping, fine dining, entertainment, and nightlife, with most venues centered on downtown Las Vegas and more to the Las Vegas Strip just outside city limits in the unincorporated towns of Paradise and Winchester. The Las Vegas Valley serves as the leading financial, commercial, and cultural center in Nevada.

Las Vegas was settled in 1905 and officially incorporated in 1911.[11] At the close of the 20th century, it was the most populated North American city founded within that century (a similar distinction was earned by Chicago in the 19th century). Population growth has accelerated since the 1960s and into the 21st century, and between 1990 and 2000 the population increased by 85.2%.

The city bills itself as the Entertainment Capital of the World, and is famous for its luxurious and large casino-hotels. With over 40.8 million visitors annually as of 2023,[12] Las Vegas is one of the most visited cities in the United States, annually ranking as one of the world's most visited tourist destinations.[13][14] It is the third most popular U.S. destination for business conventions[15] and a global leader in the hospitality industry.[16] The city's tolerance for numerous forms of adult entertainment has earned it the nickname "Sin City",[17] and has made it a popular setting for literature, films, television programs, commercials and music videos.

Toponymy

[edit]

In 1829, Mexican trader and explorer Antonio Armijo led a group consisting of 60 men and 100 mules along the Old Spanish Trail from modern day New Mexico to California. Along the way, the group stopped in what would become Las Vegas and noted its natural water sources, now referred to as the Las Vegas Springs, which supported extensive vegetation such as grasses and mesquite trees. The springs were a significant natural feature in the valley, with streams that supported a meadow ecosystem. This region served as the winter residence for the Southern Paiute people, who utilized the area's resources before moving to higher elevations during the summer months. The Spanish "las vegas" or "the meadows" (more precisely, lower land near a river) in English, was applied to describe the fertile lowlands near the springs. Over time, the name began to refer to the populated settlement.[18][19][20]

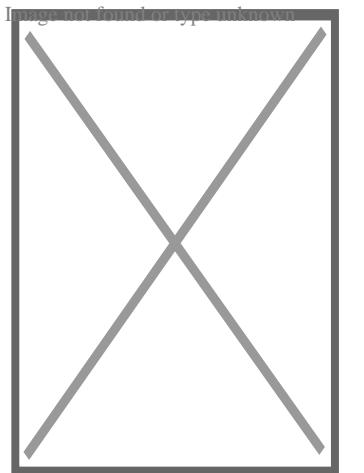
History

[edit]

Main article: History of Las Vegas

For a chronological guide, see [Timeline of Las Vegas](#).

See also: [Las Vegas in the 1940s](#) and [Las Vegas in the 1950s](#)



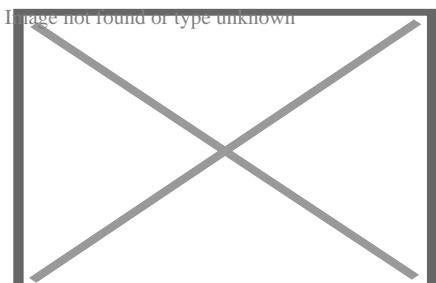
Southern Paiutes at Moapa wearing traditional Paiute basket hats with Paiute cradleboard and rabbit robe

Nomadic Paleo-Indians traveled to the Las Vegas area 10,000 years ago, leaving behind petroglyphs. Ancient Puebloan and Paiute tribes followed at least 2,000 years ago.[\[21\]](#)

A young Mexican scout named Rafael Rivera is credited as the first non-Native American to encounter the valley, in 1829.[\[22\]](#) Trader Antonio Armijo led a 60-man party along the Spanish Trail to Los Angeles, California, in 1829.[\[23\]](#)[\[24\]](#) In 1844, John C. Frémont arrived, and his writings helped lure pioneers to the area. Downtown Las Vegas's Fremont Street is named after him.

Eleven years later, members of the Church of Jesus Christ of Latter-day Saints chose Las Vegas as the site to build a fort halfway between Salt Lake City and Los Angeles, where they would travel to gather supplies. The fort was abandoned several years afterward. The remainder of this Old Mormon Fort can still be seen at the intersection of Las Vegas Boulevard and Washington Avenue.

Las Vegas was founded as a city in 1905, when 110 acres (45 ha) of land adjacent to the Union Pacific Railroad tracks were auctioned in what would become the downtown area. In 1911, Las Vegas was incorporated as a city.[\[25\]](#)

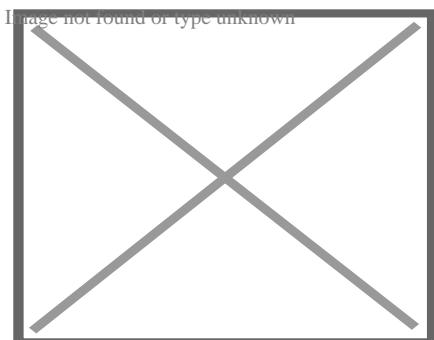


Golden Nugget and Pioneer Club along Fremont Street in 1952

The year 1931 was pivotal for Las Vegas. At that time, Nevada legalized casino gambling [26] and reduced residency requirements for divorce to six weeks. [27] This year also witnessed the beginning of construction of the tunnels of nearby **Hoover Dam**. The influx of construction workers and their families helped Las Vegas avoid economic calamity during the **Great Depression**. The construction work was completed in 1935.

In late 1941, **Las Vegas Army Airfield** was established. Renamed **Nellis Air Force Base** in 1950, it is now home to the **United States Air Force Thunderbirds** aerobatic team. [28]

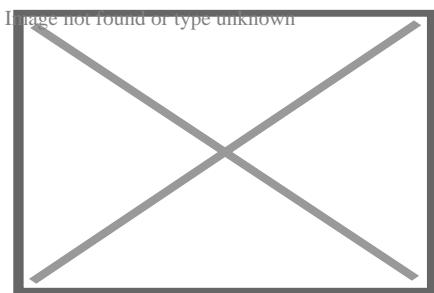
Following World War II, lavishly decorated hotels, gambling casinos, and big-name entertainment became synonymous with Las Vegas.



This view of downtown Las Vegas shows a **mushroom cloud** in the background. Scenes such as this were typical during the 1950s. From 1951 to 1962, the government conducted 100 atmospheric tests at the nearby **Nevada Test Site**. [29]

In 1951, **nuclear weapons testing** began at the **Nevada Test Site**, 65 miles (105 km) northwest of Las Vegas. During this time, the city was nicknamed the "**Atomic City**." Residents and visitors were able to witness the mushroom clouds (and were exposed to the fallout) until 1963 when the **Partial Nuclear Test Ban Treaty** required that nuclear tests be moved underground. [29]

In 1955, the **Moulin Rouge Hotel** opened and became the first racially integrated casino-hotel in Las Vegas.



Fremont Street in the late 1960s

During the 1960s, corporations and business tycoons such as **Howard Hughes** were building and buying hotel-casino properties. Gambling was referred to as "gaming," which transitioned

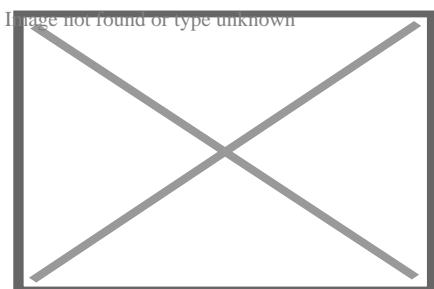
it into a legitimate business. *Learning from Las Vegas*, published during this era, asked architects to take inspiration from the city's highly decorated buildings, helping to start the **postmodern architecture** movement.

In 1995, the **Fremont Street Experience** opened in Las Vegas's downtown area. This canopied five-block area features 12.5 million LED lights and 550,000 watts of sound from dusk until midnight during shows held at the top of each hour.

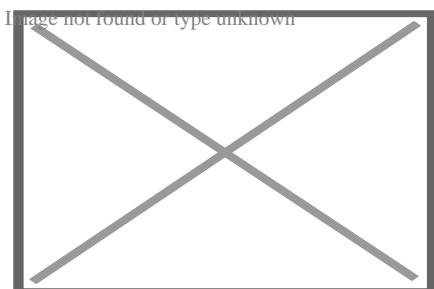
Due to the realization of many revitalization efforts, 2012 was dubbed "The Year of Downtown." Projects worth hundreds of millions of dollars made their debut at this time, including the **Smith Center for the Performing Arts**, the **Discovery Children's Museum**, the **Mob Museum**, the **Neon Museum**, a new **City Hall** complex, and renovations for a new **Zappos.com** corporate headquarters in the **old City Hall** building.[30][31]

Geography

[edit]



Astronaut photograph of Las Vegas at night



Downtown Las Vegas with Red Rock Canyon in the background

Las Vegas is the county seat of **Clark County**, in a **basin** on the floor of the **Mojave Desert**,[32] and is surrounded by mountain ranges. Much of the landscape is rocky and arid, with desert vegetation and wildlife. It can be subjected to torrential flash floods, although much has been done to mitigate the effects of flash floods through improved drainage systems.[33]

The city's elevation is approximately 2,030 ft (620 m) above sea level, though the surrounding peaks reach elevations of over 10,000 feet (3,000 m) and act as barriers to the strong flow of moisture from the surrounding area. According to the **United States Census Bureau**, the city

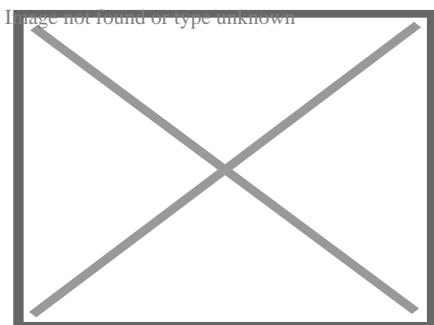
has an area of 135.86 sq mi (351.9 km²), of which 135.81 sq mi (351.7 km²) is land and 0.05 sq mi (0.13 km²) (0.03%) is water.

After Alaska and California, Nevada is the third most seismically active state in the U.S. It has been estimated by the United States Geological Survey (USGS) that over the next 50 years, there is a 10–20% chance of an M6.0 or greater earthquake occurring within 50 km (31 mi) of Las Vegas.[34]

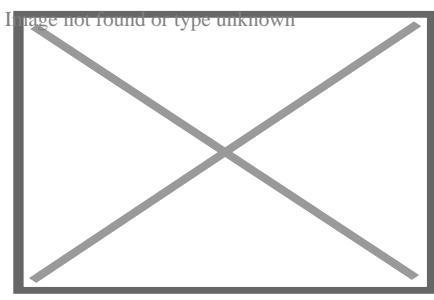
Within the city are many lawns, trees, and other greenery. Due to water resource issues, there has been a movement to encourage [xeriscapes](#). Another part of conservation efforts is scheduled watering days for residential landscaping. A [U.S. Environmental Protection Agency](#) grant in 2008 funded a program that analyzed and forecast growth and environmental effects through 2019.[35]

Climate

[edit]



Desert scene at the [Red Rock Canyon National Conservation Area](#) in the Las Vegas area



Spring flowers at the [Red Rock Canyon National Conservation Area](#) in the Las Vegas area

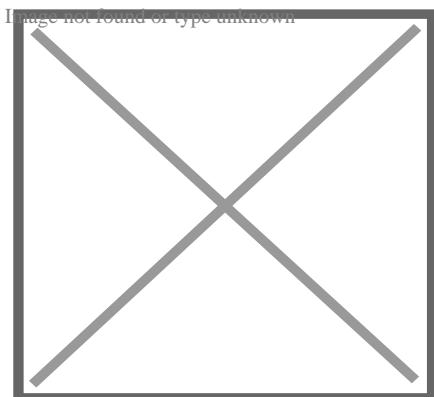
Las Vegas has a [subtropical hot desert climate](#) ([Köppen climate classification: BWh](#), [Trewartha climate classification BWhk](#)), typical of the [Mojave Desert](#) in which it lies. This climate is typified by long, extremely hot summers; warm transitional seasons; and short winters with mild days and cool nights. There is abundant sunshine throughout the year, with an average of 310 sunny days and bright sunshine during 86% of all daylight hours.[36][37]

Rainfall is scarce, with an average of 4.2 in (110 mm) dispersed between roughly 26 total rainy days per year.[38] Las Vegas is among the sunniest, driest, and least humid locations in North America, with exceptionally low dew points and humidity that sometimes remains below 10%. [39]

The summer months of June through September are extremely hot, though moderated by the low humidity levels. July is the hottest month, with an average daytime high of 104.5 °F (40.3 °C). On average, 137 days per year reach or exceed 90 °F (32 °C), of which 78 days reach 100 °F (38 °C) and 10 days reach 110 °F (43 °C). During the peak intensity of summer, overnight lows frequently remain above 80 °F (27 °C), and occasionally above 85 °F (29 °C). [36]

While most summer days are consistently hot, dry, and cloudless, the [North American Monsoon](#) sporadically interrupts this pattern and brings more cloud cover, thunderstorms, lightning, increased humidity, and brief spells of heavy rain. Potential monsoons affect Las Vegas between July and August. Summer in Las Vegas is marked by significant [diurnal temperature variation](#). While less extreme than other parts of the state, nighttime lows in Las Vegas are often 30 °F (16.7 °C) or more lower than daytime highs. [40] The average hottest night of the year is 90 °F (32 °C). The all-time record is at 95 °F (35 °C). [36]

Las Vegas winters are relatively short, with typically mild daytime temperatures and chilly nights. Sunshine is abundant in all seasons. December is both the year's coolest and cloudiest month, with an average daytime high of 56.9 °F (13.8 °C) and sunshine occurring during 78% of its daylight hours. Winter evenings are defined by clear skies and swift drops in temperature after sunset, with overnight minima averaging around 40 °F (4.4 °C) in December and January. Owing to its elevation that ranges from 2,000 to 3,000 feet (610 to 910 m), Las Vegas experiences markedly cooler winters than other areas of the [Mojave Desert](#) and the adjacent [Sonoran Desert](#) that are closer to sea level. The city records freezing temperatures an average of 10 nights per winter. It is exceptionally rare for temperatures to reach or fall below 25 °F (?4 °C). [36]



Climate chart for Las Vegas

Most of the annual precipitation falls during the winter. February, the wettest month, averages only four days of measurable rain. The mountains immediately surrounding the Las Vegas Valley accumulate snow every winter, but significant accumulation within the city is rare, although moderate accumulations occur every few years. The most recent accumulations occurred on February 18, 2019, when parts of the city received about 1 to 2 inches (2.5 to 5.1 cm) of snow[41] and on February 20 when the city received almost 0.5 inches (1.3 cm).[42] Other recent significant snow accumulations occurred on December 25, 2015, and December 17, 2008.[43] Unofficially, Las Vegas's largest snowfall on record was the 12 inches (30 cm) that fell in 1909.[44] In recent times, ice days have not occurred, although 29 °F (?2 °C) was measured in 1963.[36] On average the coldest day is 44 °F (7 °C).[36]

The highest temperature officially observed for Las Vegas is 120 °F (48.9 °C), as measured at [Harry Reid International Airport](#) on July 7, 2024.[36][45] The lowest temperature was 8 °F (?13 °C), recorded on two days: January 25, 1937, and January 13, 1963.[36] The official record hot daily minimum is 95 °F (35 °C) on July 19, 2005, and July 1, 2013. The official record cold daily maximum is 28 °F (?2 °C) on January 8 and 21, 1937.[36] July 2024 was the hottest month ever recorded in Las Vegas, with its highest recorded mean daily average temperature over the month of 99.9 °F (38 °C), its highest recorded mean daily maximum temperature of 111.5 °F (44 °C), and its highest recorded mean nightly minimum temperature of 88.3 °F (31 °C).[46]

Due to concerns about [climate change](#) in the wake of a 2002 drought, daily water consumption has been reduced from 314 US gallons (1,190 L) per resident in 2003 to around 205 US gallons (780 L) in 2015.[47]

Climate data for Harry Reid International Airport (Paradise, Nevada), 1991–2020 normals,[b] extremes 1937–present

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Record high °F (°C)	77 (25)	87 (31)	92 (33)	99 (37)	109 (43)	117 (47)	120 (49)	116 (47)	114 (46)	104 (40)	87 (31)	78 (26)	120 (49)
Mean maximum °F (°C)	68.7 (20.4)	74.2 (23.4)	84.3 (29.1)	93.6 (34.2)	101.8 (38.8)	110.1 (43.4)	112.9 (44.9)	110.3 (43.5)	105.0 (40.6)	94.6 (34.8)	80.5 (26.9)	67.9 (19.9)	113.6 (45.3)
Mean daily maximum °F (°C)	58.5 (14.7)	62.9 (17.2)	71.1 (21.7)	78.5 (25.8)	88.5 (31.4)	99.4 (37.4)	104.5 (40.3)	102.8 (39.3)	94.9 (34.9)	81.2 (27.3)	67.1 (19.5)	56.9 (13.8)	80.5 (26.9)
Daily mean °F (°C)	49.5 (9.7)	53.5 (11.9)	60.8 (16.0)	67.7 (19.8)	77.3 (25.2)	87.6 (30.9)	93.2 (34.0)	91.7 (33.2)	83.6 (28.7)	70.4 (21.3)	57.2 (14.0)	48.2 (9.0)	70.1 (21.2)
Mean daily minimum °F (°C)	40.5 (4.7)	44.1 (6.7)	50.5 (10.3)	56.9 (13.8)	66.1 (18.9)	75.8 (24.3)	82.0 (27.8)	80.6 (27.0)	72.4 (22.4)	59.6 (15.3)	47.3 (8.5)	39.6 (4.2)	59.6 (15.3)

Mean minimum °F (°C)	29.8 (?1.2)	32.9 (0.5)	38.7 (3.7)	45.2 (7.3)	52.8 (11.6)	62.2 (16.8)	72.9 (22.7)	70.8 (21.6)	60.8 (16.0)	47.4 (8.6)	35.2 (1.8)	29.0 (?1.7)	27.4 (?2.6)
Record low °F (°C)	8 (?13)	16 (?9)	19 (?7)	31 (?1)	38 (3)	48 (9)	56 (13)	54 (12)	43 (6)	26 (?3)	15 (?9)	11 (?12)	8 (?13)
Average precipitation inches (mm)	0.56 (14)	0.80 (20)	0.42 (11)	0.20 (5.1)	0.07 (1.8)	0.04 (1.0)	0.38 (9.7)	0.32 (8.1)	0.32 (8.1)	0.32 (8.1)	0.30 (7.6)	0.45 (11)	4.18 (106)
Average snowfall inches (cm)	0.0 (0.0)	0.2 (0.51)	0.2 (0.51)										
Average precipitation days (? 0.01 in)	3.1	4.1	2.8	1.6	1.1	0.4	2.5	2.2	1.8	1.7	1.5	3.0	25.8
Average snowy days (? 0.1 in)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Average relative humidity (%)	45.1	39.6	33.1	25.0	21.3	16.5	21.1	25.6	25.0	28.8	37.2	45.0	30.3
Average dew point °F (°C)	22.1 (?5.5)	23.7 (?4.6)	23.9 (?4.5)	24.1 (?4.4)	28.2 (?2.1)	30.9 (?0.6)	40.6 (4.8)	44.1 (6.7)	37.0 (2.8)	30.4 (?0.9)	25.3 (?3.7)	22.3 (?5.4)	29.4 (?1.5)
Mean monthly sunshine hours	245.2	246.7	314.6	346.1	388.1	401.7	390.9	368.5	337.1	304.4	246.0	236.0	3,825.3
Percentage possible sunshine	79	81	85	88	89	92	88	88	91	87	80	78	86

Source: NOAA (relative humidity, dew point and sun 1961–1990) [36][38][37]

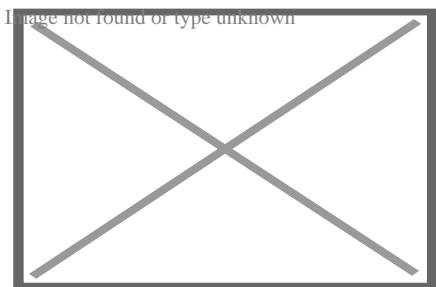


Graphs are unavailable due to technical issues. Updates on reimplementing the Graph extension, which will be known as the Chart extension, can be found on [Phabricator](#) and on [MediaWiki.org](#).

See or edit [raw graph data](#).

Nearby communities

[\[edit\]](#)



The entrance to the community of [Summerlin](#)

- [Boulder City](#), incorporated
- [Enterprise](#), unincorporated
- [Henderson](#), incorporated
- [Lone Mountain](#), unincorporated
- [North Las Vegas](#), incorporated
- [Paradise](#), unincorporated
- [Spring Valley](#), unincorporated
- [Summerlin South](#), unincorporated
- [Sunrise Manor](#), unincorporated
- [Whitney](#), unincorporated
- [Winchester](#), unincorporated

Neighborhoods

[\[edit\]](#)

- [Downtown](#)
- [The Lakes](#)
- [Summerlin](#)
- [West Las Vegas](#)

Demographics

[\[edit\]](#)

Historical population

Census	Pop.	Note	%±
1900	25	—	
1910	800	3,100.0%	
1920	2,304	188.0%	
1930	5,165	124.2%	
1940	8,422	63.1%	
1950	24,624	192.4%	

1960	64,405	161.6%
1970	125,787	95.3%
1980	164,674	30.9%
1990	258,295	56.9%
2000	478,434	85.2%
2010	583,756	22.0%
2020	641,903	10.0%
2022 (est.)	656,274	2.2%

source:[48][49]

2010–2010[9]

Las Vegas, Nevada – Racial and ethnic composition

Note: the US Census treats Hispanic/Latino as an ethnic category. This table excludes

Latinos from the racial categories and assigns them to a separate category.

Hispanics/Latinos may be of any race.

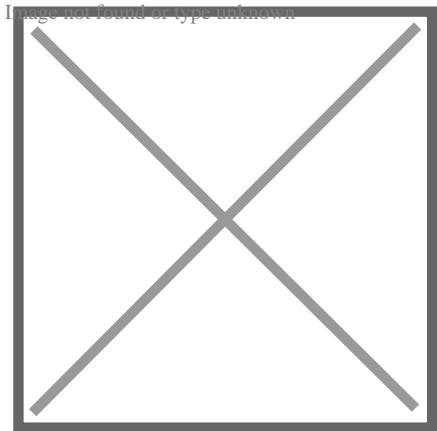
Race / Ethnicity (NH = Non-Hispanic)	Pop 2000[50]	Pop 2010[51]	Pop 2020[52]	% 2000	% 2010	% 2020
White alone (NH)	277,704	279,703	259,561	58.04%	47.91%	40.44%
Black or African American alone (NH)	48,380	62,008	79,129	10.11%	10.62%	12.33%
Native American or Alaska Native alone (NH)	2,405	2,391	2,291	0.50%	0.41%	0.36%
Asian alone (NH)	22,411	34,606	44,995	4.68%	5.93%	7.01%
Pacific Islander alone (NH)	1,935	3,103	4,204	0.40%	0.53%	0.65%
Other race alone (NH)	650	1,101	3,855	0.14%	0.19%	0.60%
Mixed race or Multiracial (NH)	11,987	16,985	34,040	2.51%	2.91%	5.30%
Hispanic or Latino (any race)	112,962	183,859	213,828	23.61%	31.50%	33.31%
Total	474,434	583,756	641,903	100.00%	100.00%	100.00%

2020 census

[edit]

According to the 2020 United States census, the city of Las Vegas had 644,883 people living in 244,429 households. The racial composition of the City of Las Vegas was 49.2% white, 11.9% black, 1.1% American Indian or Alaska Native, 6.9% Asian, Hispanic or Latino residents of any race were 34.1% and 16.2% from two or more races. 40.8% were non-Hispanic white.[53]

Approximately 5.8% of residents are under the age of five, 22.8% under the age of eighteen and 15.6% over 65 years old. Females are 50.0% of the total population.[53]



Map of racial distribution in Las Vegas, 2010 U.S. Census. Each dot is 25 people:

White

Black

Asian

Hispanic

Other

From 2019 to 2023, Las Vegas had approximately 244,429 households, with an average of 2.63 persons per household. About 55.7% of housing units were owner-occupied, and the median value of owner-occupied housing was \$395,300. Median gross rent during this period was \$1,456 per month (in 2023 dollars).[53]

The median household income in Las Vegas from 2019 to 2023 was \$70,723, while the per capita income was \$38,421 (in 2023 dollars). Approximately 14.2% of the population lived below the poverty line during the same period.[53]

Residents over 25 years old with a high school diploma were 85.8% of the population with 27.3% having attained a bachelor's degree or higher.[53]

About 33.0% of residents aged 5 and older speak a language other than English at home. 20.9% of residents are foreign-born.[53]

The mean travel time to work for residents aged 16 and older was approximately 25.8 minutes between 2019 and 2023. The vast majority of households in Las Vegas are **digitally connected**, with 95.6% having a computer and 89.1% subscribing to **broadband internet** services.

According to demographer [William H. Frey](#) using data from the [2010 United States census](#), Las Vegas has the second-lowest level of black-white **segregation** of any of the 100 largest U.S. metropolitan areas after [Tucson, Arizona](#).[\[54\]](#)

According to the Las Vegas Asian Chamber of Commerce, **Filipinos** make up the largest ethnic population within Vegas. at 20% of the city's population.[\[55\]](#) Native Hawaiians are also a major demographic in the city, with some Hawaiians and Las Vegas residents calling the city the "ninth island of **Hawaii**" due to the major influx of Hawaiians to Vegas.[\[56\]](#)

According to a 2004 study, Las Vegas has one of the highest divorce rates.[\[57\]](#)[\[58\]](#) The city's high divorce rate is not wholly due to Las Vegans themselves getting divorced. Compared to other states, Nevada's nonrestrictive requirements for divorce result in many couples temporarily moving to Las Vegas in order to get divorced.[\[59\]](#) Similarly, Nevada marriage requirements are equally lax resulting in one of the highest marriage rates of U.S. cities, with many licenses issued to people from outside the area (see [Las Vegas weddings](#)).[\[59\]](#)

2010 census

[\[edit\]](#)

According to the [2010 Census](#), the city of Las Vegas had a population of 583,756. The city's racial composition had shifted slightly, with 47.91% of the population identifying as White alone (non-Hispanic), 10.63% as Black or African American alone (non-Hispanic), 0.41% as Native American or Alaska Native alone (non-Hispanic), 5.93% as Asian alone (non-Hispanic), 0.53% as Pacific Islander alone (non-Hispanic), 0.19% as Other Race alone (non-Hispanic), and 2.91% as Mixed race or Multiracial (non-Hispanic). Hispanic or Latino individuals of any race represented 31.50% of the population.[\[51\]](#)

2000 census

[\[edit\]](#)

According to the [2000 census](#), Las Vegas had a population of 474,434 people. The racial makeup of the city was 58.52% White alone (non-Hispanic), 10.19% Black or African American alone (non-Hispanic), 0.51% Native American or Alaska Native alone (non-Hispanic), 4.72% Asian alone (non-Hispanic), 0.41% Pacific Islander alone (non-Hispanic), 0.14% Other Race alone (non-Hispanic), and 2.52% Mixed race or Multiracial (non-Hispanic). Hispanic or Latino individuals of any race made up 23.81% of the population.[\[50\]](#)

Historical racial profile	2020[60]	2010[61]	2000[62]	1990[63]	1970[63]
White	46.0%	62.1%	69.9%	78.4%	87.6%
—Non-Hispanic Whites	40.4%	47.9%	58.0%	72.1%	83.1%[c]
Black or African American	12.9%	11.1%	10.4%	11.4%	11.2%
Hispanic or Latino (of any race)	33.3%	31.5%	23.6%	12.5%	4.6%[c]
Asian	7.2%	6.1%	4.8%	3.6%	0.7%

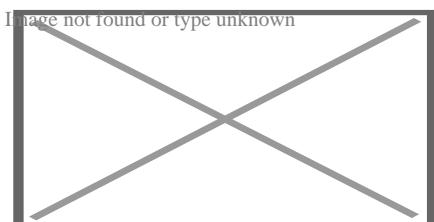
Economy

[edit]

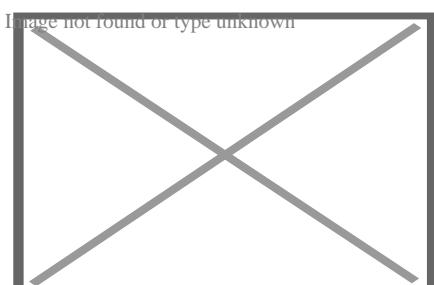
The primary drivers of the Las Vegas economy are tourism, [gaming](#), and conventions, which in turn feed the retail and restaurant industries.

Tourism

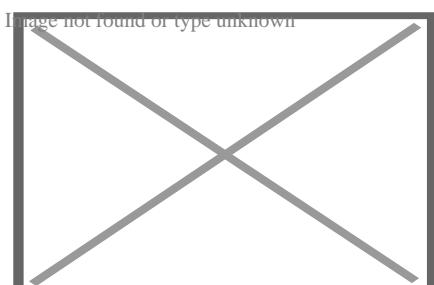
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The [Golden Nugget Las Vegas](#)



The [Las Vegas Strip](#), primarily located in [Paradise](#)



A view of the [Las Vegas Valley](#) looking north from the [Stratosphere Tower](#)

The major attractions in Las Vegas are the casinos and the hotels, although in recent years other new attractions have begun to emerge.

Most casinos in the downtown area are on [Fremont Street](#), with [The STRAT Hotel, Casino & Skypod](#) as one of the few exceptions. [Fremont East](#), adjacent to the Fremont Street Experience, was granted variances to allow bars to be closer together, similar to the [Gaslamp Quarter](#) of San Diego, the goal being to attract a different demographic than the Strip attracts.

Downtown casinos

[\[edit\]](#)

Main article: [Downtown \(Nevada gaming area\)](#)

The [Golden Gate Hotel and Casino](#), downtown along the Fremont Street Experience, is the oldest continuously operating hotel and casino in Las Vegas; it opened in 1906 as the Hotel Nevada.

In 1931, the [Northern Club](#) (now the [La Bayou](#)) opened.[\[64\]](#)[\[65\]](#) The most notable of the early casinos may have been [Binion's Horseshoe](#) (now [Binion's Gambling Hall and Hotel](#)) while it was run by [Benny Binion](#).

[Boyd Gaming](#) has a major presence downtown operating the [California Hotel & Casino](#), the [Fremont Hotel & Casino](#), and the [Main Street Casino](#). The [Four Queens](#) also operates downtown along the Fremont Street Experience.

Downtown casinos that have undergone major renovations and revitalization in recent years include the [Golden Nugget Las Vegas](#), [The D Las Vegas](#) (formerly Fitzgerald's), the [Downtown Grand Las Vegas](#) (formerly Lady Luck), the [El Cortez Hotel & Casino](#), and the [Plaza Hotel & Casino](#).[\[66\]](#)

In 2020, [Circa Resort & Casino](#) opened, becoming the first all-new hotel-casino to be built on Fremont Street since 1980.[\[67\]](#)

Las Vegas Strip

[\[edit\]](#)

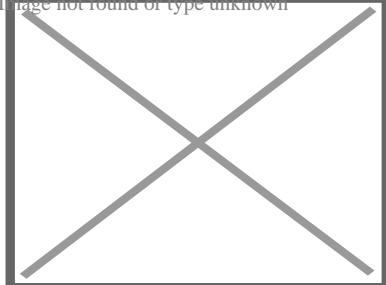
Main article: [Las Vegas Strip](#)

The center of the gambling and entertainment industry is the [Las Vegas Strip](#), outside the city limits in the surrounding unincorporated communities of [Paradise](#) and [Winchester](#) in Clark County. Some of the largest casinos and buildings are there.[\[68\]](#)

Welcome signs

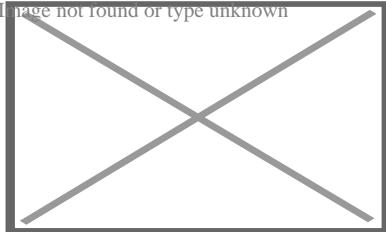
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The original Welcome to Fabulous Las Vegas sign

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Gateway Arches

In 1929, the city installed a welcome arch over [Fremont Street](#), at the corner of Main Street.[\[69\]](#)[\[70\]](#)[\[71\]](#) It remained in place until 1931.[\[72\]](#)[\[73\]](#)

In 1959, the 25-foot-tall (7.6 m) [Welcome to Fabulous Las Vegas sign](#) was installed at the south end of the [Las Vegas Strip](#). A replica welcome sign, standing nearly 16 feet (4.9 m) tall, was installed within city limits in 2002, at [Las Vegas Boulevard](#) and Fourth Street.[\[74\]](#)[\[75\]](#)[\[76\]](#) The replica was destroyed in 2016, when a pickup truck crashed into it.[\[77\]](#)

In 2018, the city approved plans for a new gateway landmark in the form of neon arches. It was built within city limits, in front of the [Strat](#) resort and north of [Sahara Avenue](#).[\[78\]](#) The project, built by [YESCO](#), cost \$6.5 million and stands 80 feet (24 m) high.[\[79\]](#) Officially known as the Gateway Arches, the project was completed in 2020. The steel arches are blue during the day, and light up in a variety of colors at night.[\[80\]](#)

Also located just north of the Strat are a pair of giant neon showgirls, initially added in 2018 as part of a \$400,000 welcome display. The original showgirls were 25 feet (7.6 m) tall, but were replaced by new ones in 2022, rising 50 feet (15 m).[\[81\]](#)[\[82\]](#) The originals were refurbished following weather damage and installed at the [Las Vegas Arts District](#).[\[82\]](#)[\[83\]](#)

Development

[edit]

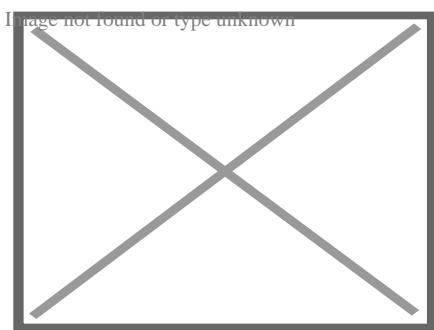
See also: [List of tallest buildings in Las Vegas](#)

When [The Mirage](#) opened in 1989, it started a trend of major resort development on the Las Vegas Strip outside of the city. This resulted in a drop in tourism in the downtown area, but many recent projects have increased the number of visitors to downtown.

An effort has been made by city officials to diversify the economy by attracting health-related, high-tech and other commercial interests. No state tax for individuals or corporations, as well as a lack of other forms of business-related taxes, have aided the success of these efforts.[\[84\]](#)

The Fremont Street Experience was built in an effort to draw tourists back to the area and has been popular since its startup in 1995.

The city conducted a land-swap deal in 2000 with [Lehman Brothers](#), acquiring 61 acres (25 ha) of property near downtown Las Vegas in exchange for 91 acres (37 ha) of the Las Vegas Technology Center.[\[85\]](#) In 2004, Las Vegas Mayor [Oscar Goodman](#) announced that the area would become home to [Symphony Park](#) (originally called "Union Park"[\[86\]](#)), a mixed-use development. The development is home to the [Cleveland Clinic Lou Ruvo Center for Brain Health](#), [The Smith Center for the Performing Arts](#), the [Discovery Children's Museum](#), the Las Vegas [Chamber of Commerce](#), and four residential projects totaling 600 residential units as of 2024.[\[87\]](#)



[World Market Center](#) Building A

In 2005, the [World Market Center](#) opened, consisting of three large buildings taking up 5,400,000 square feet ($500,000 \text{ m}^2$). Trade shows for the furniture and furnishing industries are held there semiannually.[\[88\]](#)

Also nearby is the Las Vegas North Premium Outlets. With a second expansion, completed in May 2015, the mall currently offers 175 stores.[\[89\]](#)

City offices moved to a new [Las Vegas City Hall](#) in February 2013 on downtown's Main Street. The former city hall building is now occupied by the corporate headquarters for the online retailer [Zappos.com](#), which opened downtown in 2013. Zappos CEO [Tony Hsieh](#) took an interest in the urban area and contributed \$350 million toward a revitalization effort called the Downtown Project.[\[90\]](#)[\[91\]](#) Projects funded include Las Vegas's first independent

bookstore, [The Writer's Block](#).^[92]

Other industries

[\[edit\]](#)

A number of new industries have moved to Las Vegas in recent decades. [Zappos.com](#) (now an [Amazon](#) subsidiary) was founded in San Francisco but by 2013 had moved its headquarters to downtown Las Vegas. [Allegiant Air](#), a low-cost air carrier, launched in 1997 with its first hub at [Harry Reid International Airport](#) and headquarters in nearby Summerlin.

[Planet 13 Holdings](#), a cannabis company, opened the world's largest [cannabis dispensary](#) in Las Vegas at 112,000 sq ft (10,400 m²).^{[93][94]}

Effects of growth on water supply

[\[edit\]](#)

A growing population means the Las Vegas Valley used 1.2 billion US gal (4.5 billion L) more water in 2014 than in 2011. Although water conservation efforts implemented in the wake of a 2002 drought have had some success, local [water consumption](#) remains 30 percent greater than in Los Angeles, and over three times that of San Francisco metropolitan area residents. The [Southern Nevada Water Authority](#) is building a \$1.4 billion tunnel and pumping station to bring water from [Lake Mead](#), has purchased water rights throughout Nevada, and has planned a controversial \$3.2 billion [pipeline](#) across half the state. By law, the Las Vegas Water Service District "may deny any request for a water commitment or request for a water connection if the District has an inadequate supply of water." But limiting growth on the basis of an inadequate water supply has been unpopular with the casino and building industries.^[47]

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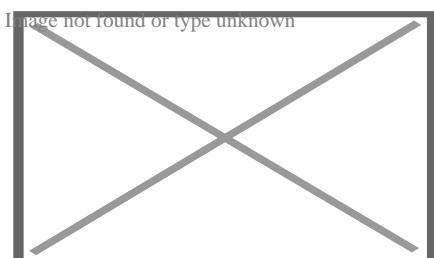
Culture

[\[edit\]](#)

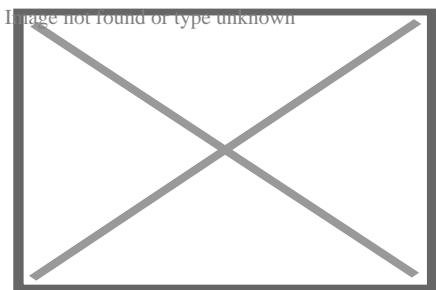
Main article: [Las Vegas Valley § Culture and the arts](#)

See also: [List of Las Vegas landmarks](#)

"Las Vegas culture" redirects here. For the ancient Ecuadorian civilization, see [Las Vegas culture \(archaeology\)](#).



The Smith Center for the Performing Arts & Discovery Museum



Symphony Park in Downtown Las Vegas

The city is home to several museums, including the [Neon Museum](#) (the location for many of the historical signs from Las Vegas's mid-20th century heyday), The [Mob Museum](#), the [Las Vegas Natural History Museum](#), the Discovery Children's Museum, the Nevada State Museum and the Old Las Vegas Mormon Fort State Historic Park.

The city is home to an extensive [Downtown Arts District](#), which hosts numerous galleries and events including the annual Las Vegas Film Festival. "First Friday" is a monthly celebration that includes arts, music, special presentations and food in a section of the city's downtown region called 18b, The Las Vegas Arts District.[\[95\]](#) The festival extends into the Fremont East Entertainment District.[\[96\]](#) The Thursday evening before First Friday is known in the arts district as "Preview Thursday," which highlights new gallery exhibitions throughout the district.[\[97\]](#)

The [Las Vegas Academy of International Studies, Performing and Visual Arts](#) is a Grammy award-winning [magnet school](#) located in [downtown Las Vegas](#). The [Smith Center for the Performing Arts](#) is downtown in [Symphony Park](#) and hosts various Broadway shows and other artistic performances.

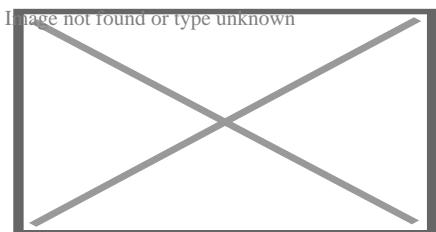
Las Vegas has earned the moniker "Gambling Capital of the World," as it has the world's most land-based casinos.[\[98\]](#) The city is also host to more [AAA Five Diamond](#) hotels than any other city in the world.[\[99\]](#)

Sports

[\[edit\]](#)

Main article: [Sports in the Las Vegas metropolitan area](#)

See also: [Nevada § Sports](#)



Allegiant Stadium is the home of the Las Vegas Raiders NFL football team.

The Las Vegas Valley is the home of three major professional teams: the National Hockey League (NHL)'s Vegas Golden Knights, an expansion team that began play in the 2017–18 NHL season at T-Mobile Arena in nearby Paradise,[100] the National Football League (NFL)'s Las Vegas Raiders, who relocated from Oakland, California, in 2020 and play at Allegiant Stadium in Paradise,[101] and the Women's National Basketball Association (WNBA)'s Las Vegas Aces, who play at the Mandalay Bay Events Center. The Oakland Athletics of Major League Baseball (MLB) will move to Las Vegas by 2028.[102][103]

Two minor league sports teams play in the Las Vegas area. The Las Vegas Aviators of the Pacific Coast League, the Triple-A farm club of the Athletics, play at Las Vegas Ballpark in nearby Summerlin.[104] The Las Vegas Lights FC of the United Soccer League play in Cashman Field in Downtown Las Vegas.[105][106]

The mixed martial arts promotion, Ultimate Fighting Championship (UFC), is headquartered in Las Vegas and also frequently holds fights in the city at T-Mobile Arena and at the UFC Apex training facility near the headquarters.[107]

List of teams

[edit]

Major professional teams

[edit]

Team	Sport	League	Venue (capacity)	Established	Titles
Las Vegas Raiders	Football	NFL	Allegiant Stadium (65,000)	2020	3[d]
Vegas Golden Knights	Ice hockey	NHL	T-Mobile Arena (17,500)	2017	1
Las Vegas Aces	Women's basketball	WNBA	Michelob Ultra Arena (12,000)	2018	2

Minor professional teams

[edit]

Team	Sport	League	Venue (capacity)	Established	Titles
Las Vegas Aviators	Baseball	MiLB (AAA-PCL)	Las Vegas Ballpark (10,000)	1983	2
Henderson Silver Knights	Ice hockey	AHL	Lee's Family Forum (5,567)	2020	0

Las Vegas Lights FC	Soccer	USLC	Cashman Field (9,334)	2018	0
Vegas Knight Hawks	Indoor football	IFL	Lee's Family Forum (6,019)		0
Las Vegas Desert Dogs	Box lacrosse	NLL	Lee's Family Forum (5,567)	2021	0

Semi-pro and amateur teams

[edit]

Team	Sport	League	Venue (capacity)	Established Titles	
Las Vegas Dream	Basketball	ABA		2023	
Las Vegas Royals				2020	
Vegas Jesters		MWHL		2012	0
Las Vegas Thunderbirds	Ice hockey	USPHL	City National Arena (600)	2019	0
Las Vegas Legends	Soccer	NPSL	Peter Johann Memorial Field (2,500)	2021	0
Vegas NVaders	Women's football	WFA - D2	Desert Pines High School (N/A)	2023	0

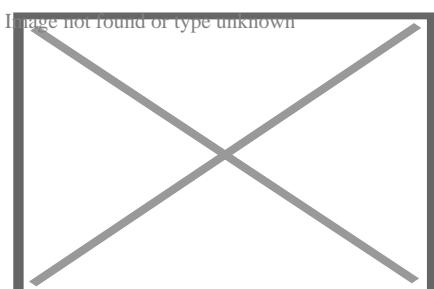
College teams

[edit]

School	Team	League	Division	Primary Conference
University of Nevada, Las Vegas (UNLV)	UNLV Rebels	NCAA	NCAA Division I	Mountain West
College of Southern Nevada (CSN)	CSN Coyotes	NJCAA	NJCAA Division I	Scenic West

Parks and recreation

[edit]



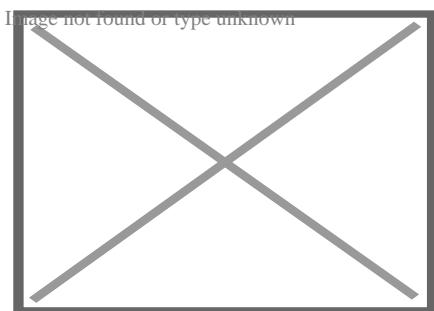
Spanish Trail Country Club, a 27-hole golf course

The city's parks and recreation department operates 78 regional, community, neighborhood, and pocket parks; four municipal swimming pools, 11 recreational centers, four active adult centers, eight cultural centers, six galleries, eleven dog parks, and four golf courses: Angel Park Golf Club, Desert Pines Golf Club, Durango Hills Golf Club, and the Las Vegas Municipal Golf Course.[\[108\]](#)

It is also responsible for 123 playgrounds, 23 softball fields, 10 football fields, 44 soccer fields, 10 dog parks, six community centers, four senior centers, 109 skate parks, and six swimming pools.[\[109\]](#)

Government

[\[edit\]](#)



[Las Vegas City Hall](#) in downtown Las Vegas

The city of Las Vegas has a [council–manager government](#).[\[110\]](#) The mayor sits as a council member-at-large and presides over all [city council](#) meetings.[\[110\]](#) If the mayor cannot preside over a city council meeting, then the [Mayor pro tempore](#) is the [presiding officer](#) of the meeting until the Mayor returns to his/her seat.[\[111\]](#) The city manager is responsible for the administration and the day-to-day operations of all [municipal services](#) and city departments.[\[112\]](#) The city manager maintains intergovernmental relationships with federal, state, county and other local governments.[\[112\]](#)

Out of the 2,265,461 people in Clark County as of the 2020 Census, approximately 1,030,000 people live in [unincorporated Clark County](#), and around 650,000 live in incorporated cities such as [North Las Vegas](#), [Henderson](#) and [Boulder City](#).[\[113\]](#) Las Vegas and Clark County share a police department, the [Las Vegas Metropolitan Police Department](#), which was formed after a 1973 merger of the [Las Vegas Police Department](#) and the [Clark County Sheriff's Department](#).[\[114\]](#) North Las Vegas, Henderson, Boulder City, Mesquite, UNLV and CCSD have their own police departments.[\[115\]](#)

The [federally-recognized Las Vegas Tribe of Paiute Indians \(Southern Paiute: Nuvagantucimi \)](#) occupies a 31-acre (130,000 m²) [reservation](#) just north downtown between [Interstate-15](#) and Main Street.[\[116\]](#)[\[117\]](#)[\[118\]](#)

Downtown is the location of [Lloyd D. George Federal District Courthouse](#)^[119] and the Regional Justice Center,^[120] which draws numerous companies providing bail, marriage, divorce, tax, incorporation and other legal services.

City council

[\[edit\]](#)

Name	Position	Party	References	Notes
Shelley Berkley	Mayor	Democratic	[121]	
Brian Knudsen	1st Ward Council member	Democratic	[122] [123]	Mayor Pro Tem
Victoria Seaman	2nd Ward Council member	Republican	[124] [123]	
Olivia Diaz	3rd Ward Council member	Democratic	[125] [123]	
Francis Allen-Palenske	4th Ward Council member	Republican		
Shondra Summers-Armstrong	5th Ward Council member	Democratic	[126]	
Nancy Brune	6th Ward Council member	Democratic		

Education

[\[edit\]](#)

Main article: [Las Vegas Valley § Education](#)

Primary and secondary schools

[\[edit\]](#)

Main article: [Clark County School District](#)

Primary and secondary public education is provided by the [Clark County School District](#).^[127]

Public higher education

[\[edit\]](#)

Public higher education is provided by the [Nevada System of Higher Education](#) (NSHE). Public institutions serving Las Vegas include the [University of Nevada, Las Vegas](#) (UNLV), the [College of Southern Nevada](#) (CSN), [Nevada State University](#) (NSU), and the [Desert Research Institute](#) (DRI).^[128]

UNLV is a public, land-grant, R1 research university and is home to the Kirk Kerkorian School of Medicine[129] and the William S. Boyd School of Law, the only law school in Nevada.[130] The university's campus is urban and located about two miles east of the Las Vegas strip. The Desert Research Institute's southern campus sits next to UNLV, while its northern campus is in Reno.[131]

CSN, with campuses throughout Clark County,[132] is a community college with one of the largest enrollments in the United States.[133] In unincorporated Clark County, CSN's Charleston campus is home to the headquarters of Nevada Public Radio (KNPR), an NPR member station.[134][135]

Private higher education

[edit]

Touro University Nevada located in Henderson is a non-profit, private institution primarily focusing on medical education.[136] Other institutions include a number of for-profit private schools (e.g., Le Cordon Bleu College of Culinary Arts, DeVry University, among others).[137]

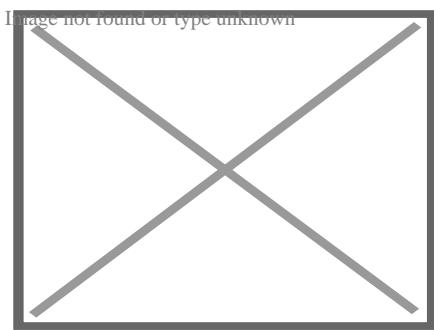
Media

[edit]

Main article: Media in Las Vegas

Newspapers

[edit]



Las Vegas *Review-Journal* sign

- *Las Vegas Review-Journal*, the area's largest daily newspaper, is published every morning. It was formed in 1909 but has roots back to 1905. It is the largest newspaper in Nevada and is ranked as one of the top 25 newspapers in the United States by circulation. In 2000, the *Review-Journal* installed the largest newspaper printing press in the world. It cost \$40 million, weighs 910 tons and consists of 16 towers.[138] Until his

death in January 2021, the newspaper was owned by casino magnate [Sheldon Adelson](#), who purchased it for \$140 million in December 2015. In 2018, the *Review-Journal* received the [Sigma Delta Chi Award](#) from the [Society of Professional Journalists](#) for reporting the [Oct 1 mass shooting](#) on the Las Vegas Strip. In 2018 and 2022, *Editor and Publisher* magazine named the *Review-Journal* as one of 10 newspapers in the United States "doing it right."[\[139\]](#)[\[140\]](#)

- [Las Vegas Sun](#), based in neighboring [Henderson](#), is a daily newspaper. Although independently published, the print edition is distributed as a section inside the *Review-Journal*. The *Sun* is owned by the Greenspun family and is part of the [Greenspun Media Group](#). It was founded independently in 1950 and in 1989 entered into a [Joint Operating Agreement](#) with the *Review-Journal*, which runs through 2040. The *Sun* has been described as "politically liberal."[\[141\]](#) In 2009, the *Sun* was awarded a [Pulitzer Prize for Public Service](#) for coverage of the high death rate of construction workers on the Las Vegas Strip amid lax enforcement of regulations.[\[142\]](#)[\[143\]](#)
- [Las Vegas Weekly](#), based in neighboring Henderson, is a free [alternative weekly](#) newspaper. It covers Las Vegas arts, entertainment, culture and news. *Las Vegas Weekly* was founded in 1992 and is published by the Greenspun Media Group.

Broadcast

[\[edit\]](#)

Las Vegas is served by 10 full power television stations and 46 radio stations. The area is also served by two NOAA Weather Radio transmitters (162.55 MHz located in Boulder City and 162.40 MHz located on [Potosi Mountain](#)).

- [Radio stations in Las Vegas](#)
- [Television stations in Las Vegas](#)

Magazines

[\[edit\]](#)

- [Desert Companion](#)
- [Las Vegas Weekly](#)
- [Luxury Las Vegas](#)

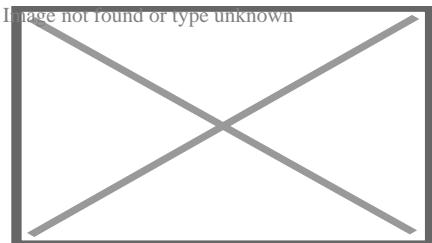
Transportation

[\[edit\]](#)

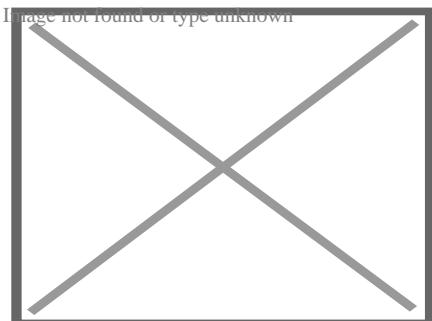
Main article: [Transportation in Las Vegas](#)



Regional Transportation Commission (RTC) provides public bus transportation.



[Harry Reid International Airport](#) provides private and public aviation services to the city.



Inside Terminal 3 at Harry Reid International Airport in Paradise

[RTC Transit](#) is a public transportation system providing bus service throughout Las Vegas, Henderson, North Las Vegas and other areas of the valley. Inter-city bus service to and from Las Vegas is provided by [Greyhound](#), [BoltBus](#), [Orange Belt Stages](#), [Tufesa](#), and several smaller carriers.[\[144\]](#)

[Amtrak](#) trains have not served Las Vegas since the service via the [Desert Wind](#) at [Las Vegas](#) station ceased in 1997, but [Amtrak California](#) operates [Amtrak Thruway](#) dedicated service between the city and its passenger rail stations in [Bakersfield, California](#), as well as [Los Angeles Union Station](#) via [Barstow](#).[\[145\]](#)

[High-speed rail](#) project [Brightline West](#) began construction in 2024 to connect Brightline's [Las Vegas](#) station and the [Rancho Cucamonga](#) station in [Greater Los Angeles](#).[\[146\]](#)

The [Las Vegas Monorail](#) on the Strip was privately built, and upon bankruptcy taken over by the [Las Vegas Convention and Visitors Authority](#).[\[147\]](#)

[Silver Rider Transit](#) operates three routes within Las Vegas, offering connections to Laughlin,[\[148\]](#) Mesquite,[\[149\]](#) and Sandy Valley.[\[150\]](#)

The [Union Pacific Railroad](#) is the only [Class I railroad](#) providing rail freight service to the city. Until 1997, the Amtrak [Desert Wind](#) train service ran through Las Vegas using the Union Pacific Railroad tracks.

In March 2010, the RTC launched [bus rapid transit](#) link in Las Vegas called the *Strip & Downtown Express* with limited stops and frequent service that connects downtown Las Vegas, the Strip and the Las Vegas Convention Center. Shortly after the launch, the RTC dropped the *ACE* name.[\[151\]](#)

In 2016, 77.1 percent of working Las Vegas residents (those living in the city, but not necessarily working in the city) commuted by driving alone. About 11 percent commuted via carpool, 3.9 percent used public transportation, and 1.4 percent walked. About 2.3 percent of Las Vegas commuters used all other forms of transportation, including taxi, bicycle, and motorcycle. About 4.3% of working Las Vegas residents worked at home.[\[152\]](#) In 2015, 10.2 percent of city of Las Vegas households were without a car, which increased slightly to 10.5 percent in 2016. The national average was 8.7 percent in 2016. Las Vegas averaged 1.63 cars per household in 2016, compared to a national average of 1.8 per household.

With some exceptions, including [Las Vegas Boulevard](#), [Boulder Highway \(SR 582\)](#) and [Rancho Drive \(SR 599\)](#), the majority of surface streets in Las Vegas are laid out in a grid along [Public Land Survey System section lines](#). Many are maintained by the [Nevada Department of Transportation](#) as [state highways](#). The street numbering system is divided by the following streets:

- Westcliff Drive, [US 95 Expressway](#), [Fremont Street](#) and [Charleston Boulevard](#) divide the north–south block numbers from west to east.
- [Las Vegas Boulevard](#) divides the east–west streets from the [Las Vegas Strip](#) to near the Stratosphere, then Main Street becomes the dividing line from the Stratosphere to the North Las Vegas border, after which the Goldfield Street alignment divides east and west.
- On the east side of Las Vegas, block numbers between [Charleston Boulevard](#) and Washington Avenue are different along Nellis Boulevard, which is the eastern border of the city limits.

Interstates 15, 11, and US 95 lead out of the city in four directions. Two major freeways – [Interstate 15](#) and [Interstate 11/U.S. Route 95](#) – cross in downtown Las Vegas. I-15 connects Las Vegas to Los Angeles, and heads northeast to and beyond Salt Lake City. I-11 goes northwest to the [Las Vegas Paiute Indian Reservation](#) and southeast to [Henderson](#) and to the [Mike O'Callaghan–Pat Tillman Memorial Bridge](#), where from this point I-11 will eventually continue along [US 93](#) towards [Phoenix, Arizona](#). US 95 (and eventually I-11) connects the city to northwestern Nevada, including [Carson City](#) and [Reno](#). US 93 splits from I-15 northeast of Las Vegas and goes north through the eastern part of the state, serving [Ely](#) and [Wells](#). US 95 heads south from US 93 near Henderson through far eastern California. A [partial beltway](#) has been built, consisting of [Interstate 215](#) on the south and [Clark County 215](#) on the west and north. Other radial routes include [Blue Diamond Road \(SR 160\)](#) to [Pahrump](#) and [Lake Mead Boulevard \(SR 147\)](#) to [Lake Mead](#).

East–west roads, north to south[\[153\]](#)

- [Ann Road](#)
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-  [Craig Road \(SR 573\)](#)
Image not found or type unknown
-  [Cheyenne Avenue \(SR 574\)](#)
- [Smoke Ranch Road](#)
Image not found or type unknown
-  [Washington Avenue \(SR 578\)](#)
Image not found or type unknown
-  [Summerlin Parkway \(SR 613\)](#)
Image not found or type unknown
-  [Bonanza Road \(SR 579\)](#)
Image not found or type unknown
-  [Charleston Boulevard \(SR 159\)](#)
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-  [Sahara Avenue \(SR 589\)](#)

North–south roads, west to east

- [Fort Apache Road](#)
- [Durango Drive](#)
- [Buffalo Drive](#)
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-  [Rainbow Boulevard \(SR 595\)](#)
Image not found or type unknown
-  [Jones Boulevard \(SR 596\)](#)
- [Decatur Boulevard](#)
- [Valley View Boulevard](#)
Image not found or type unknown
-  [Rancho Drive](#)
- [Maryland Parkway](#)
Image not found or type unknown
-  [Eastern Avenue \(SR 607\)](#)
- [Pecos Road](#)
Image not found or type unknown
-  [Lamb Boulevard \(SR 610\)](#)
Image not found or type unknown
-  [Nellis Boulevard \(SR 612\)](#)

[Harry Reid International Airport](#) handles international and domestic flights into the Las Vegas Valley. The airport also serves private aircraft and freight/cargo flights. Most general aviation traffic uses the smaller [North Las Vegas Airport](#) and [Henderson Executive Airport](#).

Notable people

[\[edit\]](#)

Main article: [List of people from Las Vegas](#)

See also

[\[edit\]](#)

- [2017 Las Vegas shooting](#)

- List of films set in Las Vegas
- List of films shot in Las Vegas
- List of Las Vegas casinos that never opened
- List of mayors of Las Vegas
- List of television shows set in Las Vegas
- Radio stations in Las Vegas
- Television stations in Las Vegas

Notes

[edit]

1. ^

- American English: */ləs vɛɡəz/*
- Spanish pronunciation: *[las ˈvɛgas]*
- 2. ^ Mean monthly maxima and minima (i.e. the highest and lowest temperature readings during an entire month or year) calculated based on data at said location from 1991 to 2020.
- 3. ^ **a b** From 15% sample
- 4. ^ Two titles were won when the team was based in [Oakland, California](#) and one was won during the team's time in [Los Angeles, California](#).

References

[edit]

1. ^ "Words and Their Stories: Nicknames for New Orleans and Las Vegas". *VOA News*. March 13, 2010. *Archived* from the original on April 25, 2016. Retrieved January 29, 2012.
2. ^ Lovitt, Rob (December 15, 2009). "Will the real Las Vegas please stand up?". *NBC News*. *Archived* from the original on November 3, 2020. Retrieved February 4, 2012.
3. ^ Letourneau, Christian (May 24, 2022). "How This Mainland City Became Known as Hawaii's 'Ninth Island'". *Fodor's*. Retrieved February 10, 2025.

4. ^ Dymski, Gary. "Ninth Island: The story behind Hawaiians' affinity for Las Vegas". *KLAS-TV*. Retrieved February 10, 2025.
5. ^ "ArcGIS REST Services Directory". United States Census Bureau. Archived from the original on October 11, 2014. Retrieved September 19, 2022.
6. ^ "City and Town Population Totals: 2020–2023". United States Census Bureau, Population Division. Archived from the original on July 11, 2022. Retrieved May 16, 2024.
7. ^ "2020 Population and Housing State Data". United States Census Bureau. Archived from the original on August 24, 2021. Retrieved August 22, 2021.
8. ^ "Total Gross Domestic Product for Las Vegas-Henderson-Paradise, NV (MSA)". fred.stlouisfed.org.
9. ^ a b "QuickFacts: Las Vegas city, Nevada". United States Census Bureau. Archived from the original on March 14, 2022. Retrieved August 22, 2021.
10. ^ "Profile of General Population and Housing Characteristics: 2010 Demographic Profile Data (DP-1): Las Vegas city, Nevada". United States Census Bureau. Archived from the original on July 9, 2021. Retrieved March 9, 2012.
11. ^ "Timeline". *Las Vegas Sun*. Archived from the original on May 20, 2008.
12. ^ Stutz, Howard (January 25, 2024). "In 2023, Las Vegas saw its highest visitation totals since before the pandemic". *Nevada Independent*. Archived from the original on July 13, 2024.
13. ^ "Overseas Visitation Estimates for U.S. States, Cities, and Census Regions: 2013" (PDF). International Visitation in the United States. US Office of Travel and Tourism Industries, US Department of Commerce. May 2014. Archived from the original (PDF) on November 13, 2018. Retrieved December 14, 2014.
14. ^ "World's Most-Visited Tourist Attractions". *Travel + Leisure*. November 10, 2014. Archived from the original on September 15, 2012. Retrieved January 10, 2015.
15. ^ Jones, Charisse (August 21, 2013). "Top convention destinations: Orlando, Chicago, Las Vegas". *USA Today*. Archived from the original on April 11, 2019. Retrieved September 2, 2017.
16. ^ Brady, John (August 1, 2015). "The Financial, Social, and Environmental Impacts of Sustainable Practices on the Las Vegas Hospitality Market". UNLV Theses, Dissertations, Professional Papers, and Capstones. doi:10.34917/8349563.
17. ^ Schwartz, David G. (December 10, 2018). "Why Las Vegas Is Still America's Most Sinful City". *Forbes*. Archived from the original on October 4, 2019. Retrieved August 27, 2019.
18. ^ Al, Stefan (2017). *The Strip: Las Vegas and the architecture of the American dream*. Cambridge: MIT Press. p. 6. ISBN 978-0-262-03574-3.
19. ^ Land, Barbara; Land, Myrick (2010). *A short history of Las Vegas* (2nd ed.). Reno: University of Nevada Press. pp. Preface. ISBN 978-0-87417-643-8.
20. ^ Dymski, Gary (November 25, 2022). "Las Vegas: Name comes from image of valley during trading party's search for water in 1829". *KLAS-TV*. Archived from the original on September 28, 2023.

21. ^ Cordell, Linda (1994). *Ancient Pueblo Peoples*. St. Remy Press and Smithsonian Institution. pp. 18–19. ISBN 0-89599-038-5.
22. ^ Land, Barbara; Land, Myrick (March 1, 2004). *A Short History of Las Vegas*. University of Nevada Press. p. 4. ISBN 978-0874176438. Retrieved December 18, 2020.
23. ^ "FAQs/History". Clark County, Nevada. Archived from the original on December 1, 2010. Retrieved December 4, 2008.
24. ^ Ponce, Victor Miguel. "Las Vegas, how did Las Vegas get its name, groundwater depletion". San Diego State University. Archived from the original on July 1, 2014. Retrieved September 13, 2014.
25. ^ Federal Writers' Project (1941). *Origin of Place Names: Nevada* (PDF). Works Progress Administration. p. 16. Archived (PDF) from the original on April 9, 2018.
26. ^ Schwartz, David (April 9, 2014). "My Nevada 5: The Days That Changed the Gaming World". University of Nevada, Las Vegas News Center. Archived from the original on December 4, 2024.
27. ^ Nevada Press Association (March 31, 2014). "From 1931: Divorce, gambling get Nevada governor's signature". Reno Gazette-Journal. Archived from the original on May 10, 2021.
28. ^ "Home". United States Air Force Thunderbirds. Archived from the original on October 20, 2019. Retrieved October 25, 2019.
29. ^ a b Simon, Steven; Bouville, Andre (January–February 2006). "Fallout from Nuclear Weapons Tests and Cancer Risks". American Scientist. 94 (1): 48. doi:10.1511/2006.57.48. ISSN 0003-0996. Archived from the original on July 9, 2014. Retrieved December 18, 2020. "Exposures 50 years ago still have health implications today that will continue into the future...Deposition...generally decreases with distance from the test site in the direction of the prevailing wind across North America, although isolated locations received significant deposition as a result of rainfall. Trajectories of the fallout debris clouds across the U.S. are shown for four altitudes. Each dot indicates six hours."
30. ^ "History". City of Las Vegas. Archived from the original on July 1, 2014. Retrieved December 2, 2016.
31. ^ Segall, Eli; Subrina Hudson (October 22, 2020). "Zappos' new landlord is a familiar face". Las Vegas Review-Journal. Archived from the original on November 28, 2020. Retrieved December 18, 2020.
32. ^ "Geography of Las Vegas, Nevada". geography.about.com. Archived from the original on April 12, 2014. Retrieved February 25, 2014.
33. ^ "Flood control a success". Las Vegas Review-Journal. December 28, 2010. Archived from the original on May 1, 2021. Retrieved September 13, 2014.
34. ^ "Loss-Estimation Modeling of Earthquake Scenarios for Each County in Nevada Using HAZUS-MH" (PDF). Nevada Bureau of Mines and Geology. Nevada Bureau of Mines and Geology/University of Nevada, Reno. February 23, 2006. p. 65. Archived (PDF) from the original on September 10, 2015. Retrieved March 27, 2016. ""Probability of an earthquake of magnitude 6.0 or greater occurring within 50 km in 50 years (from USGS probabilistic seismic hazard analysis) 10–20% chance for Las Vegas area, magnitude

6". "

35. ^ "Las Vegas Xeriscaping & Desert Landscaping Tips - Modern Landscape Las Vegas". April 6, 2015. Retrieved August 15, 2024.
36. ^ **a b c d e f g h i j** "NowData – NOAA Online Weather Data". National Oceanic and Atmospheric Administration. Archived from the original on July 21, 2021. Retrieved October 11, 2021.
37. ^ **a b** "WMO Climate Normals for LAS VEGAS/MCCARRAN, NV 1961–1990". National Oceanic and Atmospheric Administration. Archived from the original on August 3, 2023. Retrieved October 11, 2021.
38. ^ **a b** "Summary of Monthly Normals 1991–2020". National Oceanic and Atmospheric Administration. Archived from the original on August 3, 2023. Retrieved October 11, 2021.
39. ^ Osborn, Liz. "Cities With Low Humidity in the USA". Current Results. Archived from the original on October 19, 2016. Retrieved December 18, 2020.
40. ^ Saucedo, Daniel O. (December 2014). *Observed and Simulated Urban Heat Island and Urban Cool Island in Las Vegas* (PDF) (Thesis). University of Nevada, Reno. Archived (PDF) from the original on November 13, 2018. Retrieved December 18, 2020.
41. ^ Montero, David. "It just snowed in Vegas and likely will again this week. That isn't normal". Los Angeles Times. Archived from the original on February 21, 2019. Retrieved February 21, 2019.
42. ^ NWS Las Vegas [@NWSVegas] (February 21, 2019). "Las Vegas official snowfall for Feb 20th is 0.5 inches. This breaks a daily snowfall record for this date" (Tweet). Retrieved July 20, 2019 – via Twitter.
43. ^ Michor, Max (February 23, 2018). "Las Vegas Valley gets first touch of white winter". Las Vegas Review-Journal. Archived from the original on October 7, 2019. Retrieved July 20, 2019.
44. ^ Hansen, Kyle B. (August 26, 2011). "Photos: Remembering snowstorms in Las Vegas offers retreat from the heat". Las Vegas Sun. Archived from the original on July 20, 2019 . Retrieved July 20, 2019.
45. ^ National Weather Service Las Vegas [@NWSVegas] (July 7, 2024). "Well, it managed to hit 120° at Harry Reid Airport. #nvwx" (Tweet). Retrieved July 8, 2024 – via Twitter.
46. ^ "Almanac for Las Vegas Area, NV (ThreadEx) - July 31, 2024". National Weather Service. August 1, 2024. Archived from the original on June 16, 2022. Retrieved August 2, 2024.
47. ^ **a b** Lustgarten, Abraham (June 2, 2015). "Las Vegas Water Chief Pat Mulroy Preached Conservation, But Pushed Growth". ProPublica. Archived from the original on June 2, 2015. Retrieved November 18, 2019.
48. ^ "Geographic Identifiers: 2010 Demographic Profile Data (G001): Las Vegas city, Nevada; count revision of 01-07-2018". United States Census Bureau. Archived from the original on July 9, 2021. Retrieved March 9, 2018.
49. ^ Moffatt, Riley. *Population History of Western U.S. Cities & Towns, 1850–1990*. Lanham: Scarecrow, 1996, 159.

50. ^ **a b** "P004: Hispanic or Latino, and Not Hispanic or Latino by Race – 2000: DEC Summary File 1 – Las Vegas city, Nevada". United States Census Bureau. Retrieved January 26, 2024.
51. ^ **a b** "P2: Hispanic or Latino, and Not Hispanic or Latino by Race – 2010: DEC Redistricting Data (PL 94-171) – Las Vegas city, Nevada". United States Census Bureau . Retrieved January 26, 2024.
52. ^ "P2: Hispanic or Latino, and Not Hispanic or Latino by Race – 2020: DEC Redistricting Data (PL 94-171) – Las Vegas city, Nevada". United States Census Bureau. Retrieved January 26, 2024.
53. ^ **a b c d e f** "Quick Facts: Las Vegas city, Nevada". United States Census Bureau. April 1, 2020.
54. ^ Frey, William H. (July 24, 2018). *Diversity Explosion: How New Racial Demographics Are Remaking America* (Second ed.). Washington, D.C.: Brookings Institution Press. p. 177. ISBN 978-0-8157-2398-1. Retrieved December 18, 2020.
55. ^ "Filipinos are largest AAPI group in Las Vegas". Channel 13 Las Vegas News KTNV. May 14, 2021. Archived from the original on October 14, 2023. Retrieved October 3, 2023.
56. ^ "Las Vegas: Bright Lights, Big City, Small Town". State of the Reunion. Autumn 2012. Archived from the original on June 2, 2013. Retrieved July 5, 2013.
57. ^ Nichols, Mark W.; Stitt, B. Grant; Giacopassi, David (December 1, 2004). "Changes in Suicide and Divorce in New Casino Jurisdictions" (PDF). Journal of Gambling Studies. 20 (4): 391–404. doi:10.1007/s10899-004-4581-z. ISSN 1573-3602. PMID 15577274.
58. ^ Blakeslee, Sandra (December 16, 1997). "Suicide Rate Higher in 3 Gambling Cities, Study Says". New York Times. Archived from the original on September 29, 2009. Retrieved July 13, 2009.
59. ^ **a b** Clifford-Cruz, Rebecca; Goldberg, Delen (June 15, 2015). "Why Sin City is the wedding mecca and divorce capital of the country". Las Vegas Sun. Archived from the original on June 10, 2023. Retrieved January 12, 2025.
60. ^ "2020 census".
61. ^ "Las Vegas (city), Nevada". State & County QuickFacts. U.S. Census Bureau. Archived from the original on February 18, 2009. Retrieved April 20, 2012.
62. ^ "Race and Hispanic or Latino: 2000". U.S. Census Bureau. Archived from the original on October 25, 2016. Retrieved November 30, 2018.
63. ^ **a b** "Nevada – Race and Hispanic Origin for Selected Cities and Other Places: Earliest Census to 1990". U.S. Census Bureau. Archived from the original on August 12, 2012. Retrieved April 20, 2012.
64. ^ Rinella, Heidi Knapp (July 27, 2000). "New book raises questions about Silver State". Las Vegas Review-Journal.
65. ^ "Fremont Street Experience Brings Downtown Las Vegas into Next Century". Fremont Street Experience. Archived from the original on March 10, 2009. Retrieved December 8, 2008.
66. ^ 2013 Fiscal Year in Review, city of Las Vegas Economic and Urban Development Projects, "A New Downtown Emerges."

67. ^ Katsilometes, John (January 10, 2019). "*Circa* is Las Vegas pioneer Derek Stevens' chosen title". Las Vegas Review-Journal. *Archived* from the original on August 13, 2024. Retrieved August 22, 2019.
68. ^ Koch, Ed; Manning, Mary; Toplikar, Dave (May 15, 2008). "Showtime: How Sin City evolved into 'The Entertainment Capital of the World'". Las Vegas Sun. *Archived* from the original on March 6, 2019. Retrieved March 3, 2019.
69. ^ "Great 'Welcome' Arch Planned For Officials". Las Vegas Age. June 13, 1929. p. 1. *Archived* from the original on December 11, 2023. Retrieved December 11, 2023.
70. ^ "Welcome Arch Material Fund Grows Rapidly". Las Vegas Age. June 15, 1929. p. 1. *Archived* from the original on December 11, 2023. Retrieved December 11, 2023.
71. ^ "Put a Star on It: A Brief History of the Welcome Sign". Neon Museum. January 2, 2019. *Archived* from the original on December 11, 2023. Retrieved December 11, 2023.
72. ^ "Welcome Arch Will be Razed". Las Vegas Review-Journal. April 2, 1931. *Archived* from the original on December 11, 2023. Retrieved December 11, 2023.
73. ^ "Welcome Arch is Razed Last Eve". Las Vegas Review-Journal. April 4, 1931. *Archived* from the original on December 11, 2023. Retrieved December 11, 2023.
74. ^ "The Other Las Vegas". Las Vegas Review-Journal. December 4, 2002. *Archived* from the original on September 8, 2005.
75. ^ Brown, Patricia Leigh (January 13, 2005). "A Neon Come-Hither, Still Able to Flirt". *The New York Times*. *Archived* from the original on April 24, 2015. Retrieved December 18, 2020.
76. ^ "Ask Mr. Sun: The Welcome to Fabulous Las Vegas sign". Las Vegas Sun. November 25, 2008. *Archived* from the original on March 23, 2021. Retrieved December 11, 2023.
77. ^ Michor, Max (July 17, 2016). "Welcome to Fabulous Downtown Las Vegas' sign destroyed by truck". Las Vegas Review-Journal. *Archived* from the original on December 11, 2023. Retrieved December 11, 2023.
78. ^ Akers, Mick (May 18, 2018). "Neon arches to welcome visitors to downtown Las Vegas". Las Vegas Sun. *Archived* from the original on December 20, 2023. Retrieved December 11, 2023.
79. ^ Akers, Mick (March 2, 2020). "Downtown Las Vegas gateway arch construction to start this month". Las Vegas Review-Journal. Retrieved December 11, 2023.
80. ^ Forgione, Mary (November 19, 2020). "Can Sin City's new Gateway Arches outshine the Welcome to Las Vegas sign?". Los Angeles Times. *Archived* from the original on January 1, 2024. Retrieved December 11, 2023.
81. ^ Lane, Taylor (August 2, 2022). "50-foot showgirls coming to north Strip". Las Vegas Review-Journal. *Archived* from the original on December 11, 2023. Retrieved December 11, 2023.
82. ^ a b Garcia, Tony (August 31, 2022). "Pair of 50-foot-tall showgirls make downtown debut". Las Vegas Review-Journal. *Archived* from the original on December 11, 2023. Retrieved December 11, 2023.
83. ^ "25-foot-tall showgirls relocated to Las Vegas Arts District gateway". KSNV. March 14, 2023. Retrieved December 11, 2023.

84. ^ "Las Vegas Redevelopment Agency". City of Las Vegas. *Archived* from the original on May 4, 2016. Retrieved December 18, 2020.
85. ^ Neff, Erin (July 20, 2000). "LV Council OKs Talks for Downtown Land Deal". *Las Vegas Sun*. *Archived* from the original on May 2, 2008.
86. ^ "Area in downtown Las Vegas renamed Symphony Park". *Las Vegas Review-Journal*. May 21, 2009.
87. ^ "Symphony Park". City of Las Vegas. *Archived* from the original on September 5, 2024 . Retrieved January 11, 2025.
88. ^ Gillan, Jeff (April 30, 2018). "You've seen it a million times. What's inside the World Market Center?". *KSNV-TV*.
89. ^ "Premium Outlets: Las Vegas". Simon Property Group. *Archived* from the original on October 12, 2014. Retrieved September 13, 2014.
90. ^ "Revitalizing Downtown Las Vegas". Downtown Project. *Archived* from the original on September 12, 2014. Retrieved September 13, 2014.
91. ^ Pratt, Timothy (October 19, 2012). "What Happens in Brooklyn Moves to Vegas". *The New York Times Magazine*. *Archived* from the original on December 5, 2020. Retrieved December 18, 2020.
92. ^ Sieroty, Chris. "Despite E-Books, Independent Bookstore Gambling on Downtown Las Vegas". *KNPR News*. Archived from the original on May 30, 2015. Retrieved December 18, 2020.
93. ^ Im, Jimmy (November 3, 2018). "The world's largest cannabis dispensary just opened in Vegas—and it has an entertainment complex attached". *CNBC*. Archived from the original on June 24, 2019. Retrieved June 25, 2019.
94. ^ Chen, Angela (November 15, 2018). "We visited the world's largest cannabis dispensary". *The Verge*. Archived from the original on June 24, 2019. Retrieved December 18, 2020.
95. ^ "18b Las Vegas Art District". 18b.org. Archived from the original on September 26, 2014. Retrieved September 13, 2014.
96. ^ "First Friday Main Menu". First Friday Las Vegas Network. Archived from the original on July 15, 2014. Retrieved September 13, 2014.
97. ^ "Preview Thursday less hectic than First Friday art event". *Las Vegas Review-Journal*. May 22, 2013. *Archived* from the original on July 24, 2022. Retrieved July 24, 2022.
98. ^ "Las Vegas Gambling Capital". vegasmobilecasino.co.uk. August 31, 2016. Retrieved September 5, 2017.
99. ^ Trejos, Nancy (January 17, 2014). "AAA chooses Five Diamond hotels, restaurants for 2014". *USA Today*. *Archived* from the original on April 26, 2015. Retrieved January 10, 2015.
100. ^ Rosen, Dan (June 22, 2016). "Las Vegas awarded NHL franchise". NHL.com. NHL Enterprises, L.P. *Archived* from the original on March 31, 2022. Retrieved May 20, 2022.
101. ^ Rosenthal, Gregg (March 27, 2017). "NFL owners approve Raiders' move to Las Vegas". NFL.com. NFL Enterprises, LLC. *Archived* from the original on July 5, 2023. Retrieved May 20, 2022.

102. ^ "Oakland A's close in on move to Las Vegas after signing land deal for stadium". *The Guardian*. April 20, 2023. ISSN 0261-3077. Archived from the original on July 22, 2023. Retrieved April 20, 2023.
103. ^ DUBOW, JOSH (April 20, 2023). "Oakland A's purchase land for new stadium in Las Vegas". SFGATE. Archived from the original on April 26, 2023. Retrieved April 20, 2023.
104. ^ Bowers, Nikki (April 17, 2018). "Las Vegas 51s to rebrand, rename team". KLAS News . Archived from the original on April 18, 2018. Retrieved April 18, 2018.
105. ^ "Las Vegas Lights FC". www.lasvegaslightsfc.com. Archived from the original on May 1, 2018. Retrieved October 24, 2018.
106. ^ "Home". United Soccer League. Archived from the original on November 8, 2018. Retrieved October 24, 2018.
107. ^ "UFC Apex Officially Opens in Las Vegas". UFC.com. June 18, 2019. Archived from the original on April 16, 2021. Retrieved April 15, 2021.
108. ^ City of Las Vegas Vision Zero Program: Guiding Principles for Safe Access to City of Las Vegas Parks .(July 8, 2024). City of Las Vegas, p. 1–2. Archived from the original on March 8, 2025
109. ^ "Find Parks and Facilities". City of Las Vegas. Archived from the original on January 9, 2015. Retrieved January 10, 2015.
110. ^ a b Hager, Justin (May 23, 2024). "Unravelling the Tapestry of Local Governments in Southern Nevada". Las Vegas Weekly. Archived from the original on May 27, 2024. Retrieved December 22, 2024.
111. ^ § 2.030 Mayor: Duties; Mayor pro tempore; duties." Article II, Las Vegas City Charter in Chapter 517, Statutes of Nevada 1983. Archived from the original on January 8, 2013.
112. ^ a b § 3.030 City Manager: Appointment; duties; salary. Article III, Executive Department, Las Vegas City Charter in Chapter 517, Statues of Nevada, 1983. Archived from the original on January 8, 2013.
113. ^ "Quickfacts: 2020". United States Census Bureau. 2020. Archived from the original on December 22, 2024. Retrieved December 22, 2024.
114. ^ Moss, Teresa (July 17, 2023). "Metro Turns 50: From Rumors of Fistfights at Merger to a World-Class Agency". Las Vegas Sun. Archived from the original on July 19, 2023. Retrieved December 22, 2024.
115. ^ "Nevada Sheriffs and Chiefs". Department of Public Safety: Nevada State Police. State of Nevada. Archived from the original on July 26, 2024. Retrieved December 22, 2024.
116. ^ Goldberg, Delen (July 20, 2015). "Las Vegas' smallest sovereign nation". Las Vegas Sun. Archived from the original on July 20, 2015.
117. ^ "History". Las Vegas Paiute Tribe. Archived from the original on December 23, 2024.
118. ^ "Nuwuvi, The Southern Paiute, Caretakers of this Earth". Nevada's Indian Territory. Archived from the original on May 26, 2024.
119. ^ "Lloyd D. George U.S. Courthouse". U.S. General Services Administration. Retrieved January 12, 2025.
120. ^ "Visiting the Regional Justice Center". Las Vegas Township Justice Court. Archived from the original on June 20, 2024. Retrieved January 12, 2025.

121. ^ "Las Vegas Mayor Shelley Berkley sworn into office; envisions future of prosperity for the city". 8NewsNow. December 4, 2024. Archived from the original on December 8, 2024. Retrieved December 9, 2024.
122. ^ "Brian Knudsen". LGBTQ Victory Fund. Archived from the original on July 20, 2019. Retrieved July 20, 2019.
123. ^ **a b c** Wilson, Miranda (July 3, 2019). "Diverse new members sworn in to Las Vegas City Council". Las Vegas Sun. Archived from the original on July 20, 2019. Retrieved July 20, 2019.
124. ^ Willson, Miranda (June 11, 2019). "Knudsen, Diaz and Seaman win races, reshaping the Las Vegas City Council". Las Vegas Sun. Archived from the original on July 20, 2019. Retrieved July 20, 2019.
125. ^ Valley, Jackie (June 11, 2019). "Diaz, Knudsen and Seaman to join Las Vegas City Council after winning municipal races". The Nevada Independent. Archived from the original on July 20, 2019. Retrieved July 20, 2019.
126. ^ "Shondra Summers-Armstrong". Ballotpedia. Archived from the original on August 24, 2023. Retrieved December 9, 2024.
127. ^ N.R.S. § 386.010 "Creation; power to sue." (1971). In Chapter 386: Local Administrative Organization. Archived from the original August 17, 2000. "County school districts, the boundaries of which are conterminous with the boundaries of the counties of the State, are hereby created. The Carson City School District shall be considered as a county school district. Each county school district created by this chapter is hereby declared to be a political subdivision of the State of Nevada whose purpose is to administer the state system of public education. Each school district shall have the power to sue and may be sued. [47:32:1956]—(NRS A 1967, 37; 1969, 336; 1971, 517)"
128. ^ "Our Institutions". Nevada System of Higher Education. Retrieved March 8, 2025.
129. ^ Garcia, Abel (April 18, 2024). "UNLV's School of Medicine taking steps to fill physician shortage in Nevada". KTNV ABC 13. Archived from the original on April 19, 2024.
130. ^ Jacob, Matt (November 29, 2018). "How Nevada Finally Got a Law School | University of Nevada, Las Vegas". News Center. University of Nevada, Las Vegas. Retrieved March 8, 2025.
131. ^ "About the Desert Research Institute". Desert Research Institute. Nevada System of Higher Education. Retrieved March 8, 2025.
132. ^ "About Us". College of Southern Nevada. Retrieved March 8, 2025.
133. ^ "Biggest Community Colleges". Campus Explorer. October 12, 2021. Retrieved March 8, 2025.
134. ^ "About Nevada Public Radio". Nevada Public Radio. Retrieved March 8, 2025.
135. ^ "Charleston Campus". College of Southern Nevada. Retrieved March 8, 2025.
136. ^ Moody, Josh. "5 Questions for the President of Touro University". Inside Higher Ed. Retrieved March 8, 2025.
137. ^ "Colleges in Las Vegas". Appily. Retrieved March 8, 2025.
138. ^ Scheid, Jenny. "New presses are the world's largest". Las Vegas Review-Journal. Retrieved August 6, 2018.

139. ^ Yang, Nu; Ruiz, Jesus. "10 Newspapers That Do It Right 2018: Recognizing Success in Pioneering Newsrooms, Advertising Growth and Community Engagement". *Editor & Publisher*. Archived from the original on August 16, 2018. Retrieved December 18, 2020
140. ^ Binder, Robin (March 1, 2022). "10 news publishers that do it right". *Editor & Publisher*. Archived from the original on August 27, 2022. Retrieved September 4, 2022.
141. ^ Rainey, James. "Sleeping with the enemy newspaper". *Los Angeles Times*. p. E1. Archived from the original on August 11, 2019. Retrieved March 8, 2006.
142. ^ "2009 Pulitzer Prizes for Journalism". *The New York Times*. April 20, 2009. ISSN 0362-4331. Archived from the original on April 20, 2019. Retrieved March 8, 2025.
143. ^ "2009 Pulitzer Prizes — Journalism". *The Pulitzer Prizes*. Retrieved March 8, 2025.
144. ^ "Nevada Tables". American Intercity Bus Riders Association. Archived from the original on April 26, 2015. Retrieved July 23, 2016.
145. ^ "California-Train and Thruway service" (PDF). Amtrak. Archived (PDF) from the original on August 13, 2012. Retrieved June 18, 2013.
146. ^ Seeman, Matthew (February 11, 2025). "Construction on Brightline West high-speed train expected to begin soon". KSNV. Archived from the original on February 11, 2025.
147. ^ Radke, Brock (July 18, 2024). "At 20 years old, the Las Vegas Monorail is seeing increased usage and pondering its future". *Las Vegas Weekly*. Archived from the original on January 30, 2025.
148. ^ "Laughlin Express Flyer" (PDF). Southern Nevada Transit Coalition. Archived (PDF) from the original on May 7, 2022. Retrieved April 11, 2022.
149. ^ "Mesquite Express Brochure" (PDF). Southern Nevada Transit Coalition. Archived (PDF) from the original on April 16, 2021. Retrieved April 11, 2022.
150. ^ "Sandy Valley & Goodsprings Express route" (PDF). Southern Nevada Transit Coalition. Archived (PDF) from the original on April 18, 2022. Retrieved April 11, 2022.
151. ^ Green, Steve (August 17, 2011). "Lawsuit prompts RTC to drop 'ACE' name from bus lines". *Las Vegas Sun*. Archived from the original on December 9, 2010. Retrieved March 1, 2011.
152. ^ "Means of Transportation to Work by Age". *Census Reporter*. Archived from the original on May 7, 2018. Retrieved May 6, 2018.
153. ^ Most arterial roads are shown, as indicated on the Nevada Department of Transportation's Roadway functional classification: Las Vegas urbanized area map Archived April 4, 2012, at the Wayback Machine. Retrieved November 12, 2011.

Further reading

[edit]

- Brigham, Jay. "Review: 'Reno, Las Vegas, and the Strip: A Tale of Three Cities'." *Western Historical Quarterly* 46.4 (2015): 529–530. JSTOR westhistquar.46.4.0529.
- Chung, Su Kim (2012). *Las Vegas Then and Now*, Holt: Thunder Bay Press, ISBN 978-1-60710-582-4

- Moehring, Eugene P. *Resort City in the Sunbelt: Las Vegas, 1930–2000* (2000).
- Moehring, Eugene, "The Urban Impact: Towns and Cities in Nevada's History," *Nevada Historical Society Quarterly* 57 (Fall/Winter 2014): 177–200.
- Rowley, Rex J. *Everyday Las Vegas: Local Life in a Tourist Town* (2013)
- Stierli, Martino (2013). *Las Vegas in the Rearview Mirror: The City in Theory, Photography, and Film*, Los Angeles: Getty Publications, ISBN 978-1-60606-137-4
- Venturi, Robert (1972). *Learning from Las Vegas: The Forgotten Symbolism of Architectural Form*, Cambridge: MIT Press, ISBN 978-0-26272-006-9

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- [Official website](#)  Edit this at Wikidata
- "The Making of Las Vegas"[\[dead link\]](#) (historical timeline)
- Geologic tour guide of the Las Vegas area from American Geological Institute
- National Weather Service Forecast – Las Vegas, NV

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[City of Las Vegas](#)

- Las Vegas–Paradise, NV MSA
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- Sports
- Transportation

[Flag of Las Vegas](#)

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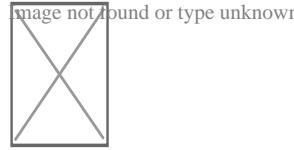
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Municipalities and communities of [Clark County, Nevada](#), United States

County seat: [Las Vegas](#)

Cities

- Boulder City
- Henderson
- Las Vegas
- Mesquite‡
- North Las Vegas



Clark
County
map

- Blue Diamond
- Bunkerville
- Cal-Nev-Ari
- Enterprise
- Goodsprings
- Indian Springs
- Laughlin
- Moapa
- Moapa Valley
- Mount Charleston
- Nellis AFB
- Nelson
- Paradise
- Sandy Valley
- Searchlight
- Spring Valley
- Summerlin South
- Sunrise Manor
- Whitney
- Winchester

- Centennial Hills
- Cold Creek
- Corn Creek
- Cottonwood Cove
- Crescent
- Glendale
- Jean
- Las Vegas Chinatown
- Lone Mountain
- Logandale
- Lower Kyle Canyon
- Mountain Springs
- Overton
- Palm Gardens
- Primm
- Riverside
- Sloan
- Summerlin
- Stewarts Point
- Trout Canyon

Unincorporated communities

- Arden
- Bard
- Bonelli's Ferry
- Borax
- Buster Falls
- Byron
- Cactus Springs
- Callville
- Colorado City
- Crystal
- Dike
- Dry Lake
- El Dorado City
- Erie
- Gold Butte
- Louisville
- Lovell
- Lucky Jim Camp
- Nelson's Landing
- Owens
- Potosi
- Quartette
- Rioville
- Roach
- Saint Joseph
- Solar
- St. Thomas
- San Juan
- Simonsville
- Stone's Ferry
- Valley
- Wann

- Indian reservations**
- Fort Mojave Indian Reservation‡
 - Las Vegas Indian Colony
 - Moapa River Indian Reservation

- Proposed communities**
- Coyote Springs‡
 - Blue Diamond Hill housing proposals

Footnotes ‡This populated place also has portions in an adjacent county or counties

- Nevada portal
- United States portal

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- **e**

Las Vegas Valley

- Las Vegas MSA
- State of Nevada

○ Airports

- Harry Reid International Airport
- North Las Vegas Airport
- Henderson Executive Airport
- Southern Nevada Supplemental Airport (planned)
- Brightline West (planned)
- Brightline West station (planned)
- Las Vegas Monorail
- RTC Transit
- Silver Rider Transit
- Resort trams
- Loop
- Amtrak station (defunct)

LV
Transportation

- 18b The Las Vegas Arts District
- Southern Nevada Zoological-Botanical Park
- Symphony Park
 - Smith Center for the Performing Arts
- Huntridge Theater
- Lance Burton Theatre
- Las Vegas Little Theater
- Majestic Repertory Theatre
- Smith Center for the Performing Arts
- PH Live

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Museums in Clark County, Nevada

**Arts and
museums**

Active

- Bellagio Gallery of Fine Art
- Boulder City/Hoover Dam Museum
- Burlesque Hall of Fame
- Clark County Museum
- Discovery Children's Museum
- Erotic Heritage Museum
- Howard W. Cannon Aviation Museum
- Imperial Palace Auto Collection
- Las Vegas Gambling Museum
- Las Vegas Historical Society
- Las Vegas Natural History Museum
- Lost City Museum
- Madame Tussauds Las Vegas
- Marjorie Barrick Museum of Art
- Mob Museum
- National Atomic Testing Museum
- Neon Museum
- Nevada State Museum
- Nevada Southern Railroad Museum
- Old Las Vegas Mormon Fort State Historic Park
- Pinball Hall of Fame
- Shelby Museum
- Southern Nevada Museum of Fine Art
- Thunderbirds Museum

- Casa de Shenandoah
- Elvis-A-Rama Museum
- Guinness World of Records
- Guggenheim Hermitage Museum

- Allegiant Stadium
- Bettye Wilson Soccer Complex
- Cashman Field
- City National Arena
- Darling Tennis Center
- Las Vegas Motor Speedway
- Las Vegas Ballpark
- Mandalay Bay Events Center
- MGM Grand Garden Arena
- New Las Vegas Stadium
- Sam Boyd Stadium
- Sphere
- T-Mobile Arena
- Thomas & Mack Center

- Sports**
- Las Vegas City Hall
 - Clark County Government Center
 - Lloyd D. George Federal Courthouse
 - Las Vegas Metropolitan Police Department
 - Clark County Coroner's Office

- Government**
- Las Vegas City Hall
 - Clark County Government Center
 - Lloyd D. George Federal Courthouse
 - Las Vegas Metropolitan Police Department
 - Clark County Coroner's Office

- Cities**
 - Henderson
 - Las Vegas
 - North Las Vegas

- Census-designated places**
 - Blue Diamond
 - Enterprise
 - Paradise
 - Spring Valley
 - Summerlin South
 - Sunrise Manor
 - Whitney
 - Winchester

- Communities**
 - Aliante
 - Anthem/Anthem Country Club
 - Centennial Hills
 - Chinatown
 - Downtown Las Vegas
 - Green Valley
 - Lake Las Vegas
 - Las Vegas Country Club
 - MacDonald Highlands
 - Mountain's Edge
 - Paradise Palms
 - Queensridge/One Queensridge Place
 - Rhodes Ranch
 - Seven Hills
 - Southern Highlands
 - Summerlin
 - Summerlin South
 - The Lakes
 - The Ridges
 - Tuscany Village
 - West Las Vegas

- Neighborhoods**
 - Aliante
 - Anthem/Anthem Country Club
 - Centennial Hills
 - Chinatown
 - Downtown Las Vegas
 - Green Valley
 - Lake Las Vegas
 - Las Vegas Country Club
 - MacDonald Highlands
 - Mountain's Edge
 - Paradise Palms
 - Queensridge/One Queensridge Place
 - Rhodes Ranch
 - Seven Hills
 - Southern Highlands
 - Summerlin
 - Summerlin South
 - The Lakes
 - The Ridges
 - Tuscany Village
 - West Las Vegas

- Research and education**
 - University of Nevada, Las Vegas
 - Nevada State University
 - National University
 - Touro University Nevada
 - College of Southern Nevada
 - Roseman University of Health Sciences

- Parks and public spaces**
 - Acacia Demonstration Gardens
 - Clark County Shooting Complex
 - Clark County Wetlands Park
 - Floyd Lamb Park at Tule Springs
 - Lake Mead National Recreation Area
 - Springs Preserve
 - Mount Charleston
 - Red Rock Canyon National Conservation Area
 - Spring Mountains National Recreation Area
 - Sunset Park
 - Tule Springs Fossil Beds National Monument
 - Valley of Fire State Park

- Area shopping**
 - 63 CityCenter
 - Blvd
 - Bonanza Gift Shop
 - The Boulevard Mall
 - The Shops at Crystals
 - Downtown Container Park
 - Downtown Summerlin
 - Galleria at Sunset
 - Grand Canal Shoppes
 - Fashion Show Mall
 - The Forum Shops at Caesars
 - Las Vegas Premium Outlets North
 - Meadows Mall
 - Miracle Mile Shops
 - Stratosphere Tower Shops
 - The Shoppes at the Palazzo
 - Tivoli Village
 - Town Square
 - Water Street District

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State of Nevada

Carson City (capital)

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Topics

- Society**
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 - Crime
 - Demographics
 - Hispanics and Latinos
 - Native Americans
 - Economy
 - Education
 - Elections
 - Gun laws
 - LGBT rights
 - Politics

- Regions**
 - Black Rock Desert
 - Eagle Valley
 - Great Basin
 - Lake Mead
 - Lake Tahoe
 - Las Vegas Valley
 - Mojave Desert
 - Pahranagat Valley
 - Sierra Nevada
 - Trout Creek Mountains
 - Truckee Meadows

- Metro areas**
 - Las Vegas
 - Reno

- Counties**
- Churchill
 - Clark
 - Douglas
 - Elko
 - Esmeralda
 - Eureka
 - Humboldt
 - Lander
 - Lincoln
 - Lyon
 - Mineral
 - Nye
 - Pershing
 - Storey
 - Washoe
 - White Pine

Cities and communities

- Alamo
- Amargosa Valley
- Austin
- Baker
- Battle Mountain
- Beatty
- Boulder City
- Caliente
- Carlin
- Carson City
- Elko
- Ely
- Enterprise
- Eureka
- Fallon
- Fernley
- Gardnerville Ranchos
- Gerlach
- Goldfield
- Hawthorne
- Henderson
- Incline Village
- Las Vegas
- Laughlin
- Lovelock
- Mesquite
- Minden
- North Las Vegas
- Panaca
- Pahrump
- Paradise
- Pioche
- Primm
- Rachel
- Reno
- Spanish Springs
- Sparks
- Spring Creek
- Spring Valley
- Stateline
- Summerlin South
- Sun Valley
- Sunrise Manor
- Tonopah
- Virginia City
- West Wendover
- Winnemucca

- Bullfrog
- Ormsby
- Roop

Flag Nevada portal
Map for the type unknown

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Southern California megaregion

Metropolitan areas and cities in *italics* are located outside of California

Metropolitan Los Angeles

- Major cities: **Los Angeles**
- **Long Beach**
- **Anaheim**
- **Santa Ana**
- **Santa Clarita**
- **Irvine**
- **Glendale**
- **Huntington Beach**
- **Garden Grove**

Inland Empire

- Major cities: **San Bernardino**
- **Riverside**
- **Fontana**
- **Moreno Valley**
- **Ontario**
- **Rancho Cucamonga**
- **Corona**

San Diego– *Tijuana*

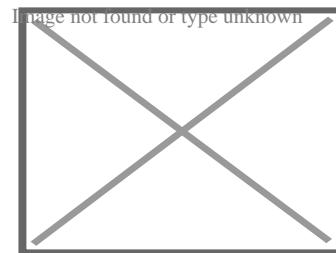
- Major cities: **San Diego**
- ***Tijuana***
- **Chula Vista**
- **Oceanside**
- **Escondido**
- ***Rosarito***

Central Coast

- Major cities: **Santa Barbara**
- **Santa Maria**
- **San Luis Obispo**

Las Vegas Valley

- Major cities: ***Las Vegas***
- ***Henderson***
- ***North Las Vegas***



Megapolitan areas of California

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County seats and independent city of Nevada

County seats

- o Battle Mountain
- o Elko
- o Ely
- o Eureka
- o Fallon
- o Goldfield
- o Hawthorne
- o Las Vegas
- o Lovelock
- o Minden
- o Pioche
- o Reno
- o Tonopah
- o Virginia City
- o Winnemucca
- o Yerington

Independent city

- o Carson City

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The 100 most populous cities of the United States

- | | | | |
|-------------------------------|--------------------------------|--------------------------------|-----------------------------------|
| 1. New York, New York | 26. Portland, Oregon | 51. Arlington, Texas | 76. Chandler, Arizona |
| 2. Los Angeles, California | 27. Louisville, Kentucky | 52. Aurora, Colorado | 77. North Las Vegas, Nevada |
| 3. Chicago, Illinois | 28. Memphis, Tennessee | 53. New Orleans, Louisiana | 78. Chula Vista, California |
| 4. Houston, Texas | 29. Detroit, Michigan | 54. Cleveland, Ohio | 79. Buffalo, New York |
| 5. Phoenix, Arizona | 30. Baltimore, Maryland | 55. Anaheim, California | 80. Gilbert, Arizona |
| 6. Philadelphia, Pennsylvania | 31. Milwaukee, Wisconsin | 56. Honolulu, Hawaii | 81. Reno, Nevada |
| 7. San Antonio, Texas | 32. Albuquerque, New Mexico | 57. Henderson, Nevada | 82. Madison, Wisconsin |
| 8. Dallas, Texas | 33. Tucson, Arizona | 58. Stockton, California | 83. Fort Wayne, Indiana |
| 9. San Diego, California | 34. Fresno, California | 59. Riverside, California | 84. Toledo, Ohio |
| 10. Austin, Texas | 35. Sacramento, California | 60. Lexington, Kentucky | 85. Lubbock, Texas |
| 11. Jacksonville, Florida | 36. Mesa, Arizona | 61. Corpus Christi, Texas | 86. St. Petersburg, Florida |
| 12. San Jose, California | 37. Kansas City, Missouri | 62. Orlando, Florida | 87. Laredo, Texas |
| 13. Fort Worth, Texas | 38. Atlanta, Georgia | 63. Irvine, California | 88. Irving, Texas |
| 14. Columbus, Ohio | 39. Colorado Springs, Colorado | 64. Cincinnati, Ohio | 89. Chesapeake, Virginia |
| 15. Charlotte, North Carolina | 40. Omaha, Nebraska | 65. Santa Ana, California | 90. Glendale, Arizona |
| 16. Indianapolis, Indiana | 41. Raleigh, North Carolina | 66. Newark, New Jersey | 91. Winston-Salem, North Carolina |
| 17. San Francisco, California | 42. Virginia Beach, Virginia | 67. Saint Paul, Minnesota | 92. Scottsdale, Arizona |
| 18. Seattle, Washington | 43. Long Beach, California | 68. Pittsburgh, Pennsylvania | 93. Garland, Texas |
| 19. Denver, Colorado | 44. Miami, Florida | 69. Greensboro, North Carolina | 94. Boise, Idaho |
| 20. Oklahoma City, Oklahoma | 45. Oakland, California | 70. Lincoln, Nebraska | 95. Norfolk, Virginia |
| 21. Nashville, Tennessee | 46. Minneapolis, Minnesota | 71. Durham, North Carolina | 96. Port St. Lucie, Florida |
| 22. El Paso, Texas | 47. Tulsa, Oklahoma | 72. Bakersfield, California | 97. Spokane, Washington |
| 23. Washington, D.C. | 48. Bakersfield, California | 73. Tampa, Florida | 98. Richmond, Virginia |
| 24. Las Vegas, Nevada | | | |
| 25. Boston, Massachusetts | | | |

Cities ranked by United States Census Bureau population estimates for July 1, 2022.

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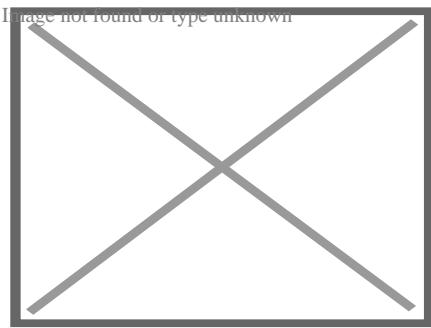
About concrete

This article is about the construction material. For other uses, see [Concrete \(disambiguation\)](#). Not to be confused with [cement](#), [grout](#), [mortar](#), or [plaster](#).



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A single **concrete block**, as used for construction

Concrete is a **composite material** composed of **aggregate** bonded together with a fluid **cement** that cures to a solid over time. Concrete is the second-most-used substance in the world after **water**,^[1] and is the most widely used building material.^[2] Concrete is the most manufactured material on Earth.^[3]

When aggregate is mixed with dry **Portland cement** and **water**, the mixture forms a fluid **slurry** that can be poured and molded into shape. The cement reacts with the water through a process called **hydration**^[4] that hardens it over several hours to form a solid matrix that binds the materials together into a durable stone-like material that has many uses.^[5] This time allows concrete to not only be cast in forms, but also to have a variety of tooled processes performed. The hydration process is **exothermic**, which means that ambient temperature plays a significant role in how long it takes concrete to set. Often, additives (such as **pozzolans** or **superplasticizers**) are included in the mixture to improve the physical properties of the wet mix, delay or accelerate the curing time, or otherwise modify the finished material. Most structural concrete is poured with reinforcing materials (such as steel **rebar**) embedded to provide **tensile strength**, yielding **reinforced concrete**.

Before the invention of Portland cement in the early 1800s, **lime**-based cement binders, such as lime putty, were often used. The overwhelming majority of concretes are produced using Portland cement, but sometimes with other **hydraulic cements**, such as **calcium aluminate cement**.^{[6][7]} Many other non-cementitious **types of concrete** exist with other methods of binding aggregate together, including **asphalt concrete** with a **bitumen** binder, which is frequently used for **road surfaces**, and **polymer concretes** that use polymers as a binder.

Concrete is distinct from **mortar**.^[8] Whereas concrete is itself a building material, and contains both coarse (large) and fine (small) aggregate particles, mortar contains only fine aggregates and is mainly used as a bonding agent to hold **bricks**, **tiles** and other masonry units together.^[9] **Grout** is another material associated with concrete and cement. It also does not contain coarse aggregates and is usually either pourable or **thixotropic**, and is used to fill gaps between masonry components or coarse aggregate which has already been put in place. Some methods of concrete manufacture and repair involve pumping grout into the gaps to make up a solid mass *in situ*.

Etymology

[edit]

The word concrete comes from the [Latin](#) word "concretus" (meaning compact or condensed),^[10] the perfect passive participle of "concrescere", from "con-" (together) and "crescere" (to grow).

History

[edit]

Ancient times

[edit]

Concrete floors were found in the royal palace of [Tiryns](#), Greece, which dates roughly to 1400 to 1200 BC.^{[11][12]} Lime mortars were used in Greece, such as in Crete and Cyprus, in 800 BC. The [Assyrian](#) Jerwan Aqueduct (688 BC) made use of [waterproof concrete](#).^[13] Concrete was used for construction in many ancient structures.^[14]

Mayan concrete at the ruins of [Uxmal](#) (AD 850–925) is referenced in *Incidents of Travel in the Yucatán* by [John L. Stephens](#). "The roof is flat and had been covered with cement". "The floors were cement, in some places hard, but, by long exposure, broken, and now crumbling under the feet." "But throughout the wall was solid, and consisting of large stones imbedded in mortar, almost as hard as rock."

Small-scale production of concrete-like materials was pioneered by the [Nabatean](#) traders who occupied and controlled a series of oases and developed a small empire in the regions of southern Syria and northern Jordan from the 4th century BC. They discovered the advantages of [hydraulic lime](#), with some self-cementing properties, by 700 BC. They built [kilns](#) to supply mortar for the construction of [rubble masonry](#) houses, concrete floors, and underground waterproof [cisterns](#). They kept the cisterns secret as these enabled the Nabataeans to thrive in the desert.^[15] Some of these structures survive to this day.^[15]

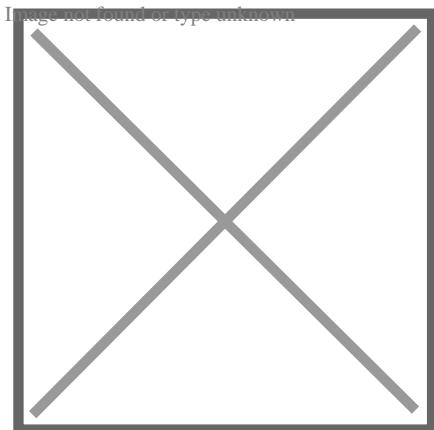
In the [Ancient Egyptian](#) and later [Roman](#) eras, builders discovered that adding [volcanic ash](#) to [lime](#) allowed the mix to set underwater. They discovered the [pozzolanic reaction](#).^[16]

Classical era

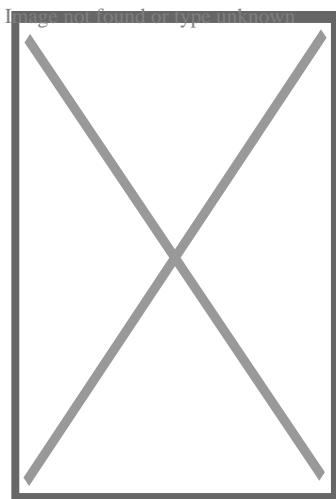
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Exterior of the **Roman Pantheon**, finished 128 AD, the largest unreinforced concrete **dome** in the world.[17]



Interior of the Pantheon dome, seen from beneath. The concrete for the **coffered** dome was laid on moulds, mounted on temporary scaffolding.



Opus caementicium exposed in a characteristic Roman arch. In contrast to modern concrete structures, the concrete used in Roman buildings was usually covered with brick or stone.

The Romans used concrete extensively from 300 BC to AD 476.[18] During the Roman Empire, **Roman concrete** (or ***opus caementicium***) was made from **quicklime**, **pozzolana** and an aggregate of **pumice**.[19] Its widespread use in many **Roman structures**, a key event in the **history of architecture** termed the **Roman architectural revolution**, freed **Roman construction** from the restrictions of stone and brick materials. It enabled revolutionary new designs in terms of both structural complexity and dimension.[20] The **Colosseum** in Rome was built largely of concrete, and the **Pantheon** has the world's largest unreinforced concrete dome.[21]

Concrete, as the Romans knew it, was a new and revolutionary material. Laid in the shape of **arches**, **vaults** and **domes**, it quickly hardened into a rigid mass, free

from many of the internal thrusts and strains that troubled the builders of similar structures in stone or brick.[22]

Modern tests show that *opus caementicium* had a similar compressive strength to modern Portland-cement concrete (c. 200 kg/cm² [20 MPa; 2,800 psi]).[23] However, due to the absence of reinforcement, its tensile strength was far lower than modern reinforced concrete, and its mode of application also differed:[24]

Modern structural concrete differs from Roman concrete in two important details. First, its mix consistency is fluid and homogeneous, allowing it to be poured into forms rather than requiring hand-layering together with the placement of aggregate, which, in Roman practice, often consisted of rubble. Second, integral reinforcing steel gives modern concrete assemblies great strength in tension, whereas Roman concrete could depend only upon the strength of the concrete bonding to resist tension.[25]

The long-term durability of Roman concrete structures has been found to be due to its use of pyroclastic (volcanic) rock and ash, whereby the crystallization of strätlingite (a complex calcium aluminosilicate hydrate)[26] and the coalescence of this and similar calcium–aluminium-silicate–hydrate cementing binders helped give the concrete a greater degree of fracture resistance even in seismically active environments.[27] Roman concrete is significantly more resistant to erosion by seawater than modern concrete; it used pyroclastic materials which react with seawater to form Al-tobermorite crystals over time.[28][29] The use of hot mixing and the presence of lime clasts have been proposed to give the concrete a self-healing ability, where cracks that form become filled with calcite that prevents the crack from spreading.[30][31]

The widespread use of concrete in many Roman structures ensured that many survive to the present day. The Baths of Caracalla in Rome are just one example. Many Roman aqueducts and bridges, such as the magnificent Pont du Gard in southern France, have masonry cladding on a concrete core, as does the dome of the Pantheon.

Middle Ages

[edit]

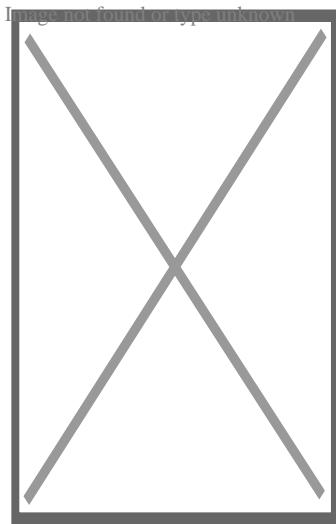
After the Roman Empire, the use of burned lime and pozzolana was greatly reduced. Low kiln temperatures in the burning of lime, lack of pozzolana, and poor mixing all contributed to a decline in the quality of concrete and mortar. From the 11th century, the increased use of stone in church and castle construction led to an increased demand for mortar. Quality began to improve in the 12th century through better grinding and sieving. Medieval lime mortars and concretes were non-hydraulic and were used for binding masonry, "hearting" (binding rubble masonry cores) and foundations. Bartholomaeus Anglicus in his *De proprietatibus rerum*

(1240) describes the making of mortar. In an English translation from 1397, it reads "lyme ... is a stone brent; by medlynge thereof with sonde and water sement is made". From the 14th century, the quality of mortar was again excellent, but only from the 17th century was pozzolana commonly added.[32]

The *Canal du Midi* was built using concrete in 1670.[33]

Industrial era

[edit]



Smeaton's Tower in Devon, England

Perhaps the greatest step forward in the modern use of concrete was [Smeaton's Tower](#), built by British engineer [John Smeaton](#) in [Devon](#), England, between 1756 and 1759. This third [Eddystone Lighthouse](#) pioneered the use of [hydraulic lime](#) in concrete, using pebbles and powdered brick as aggregate.[34]

A method for producing [Portland cement](#) was developed in England and patented by [Joseph Aspdin](#) in 1824.[35] Aspdin chose the name for its similarity to [Portland stone](#), which was quarried on the [Isle of Portland](#) in [Dorset](#), England. His son [William](#) continued developments into the 1840s, earning him recognition for the development of "modern" Portland cement.[36]

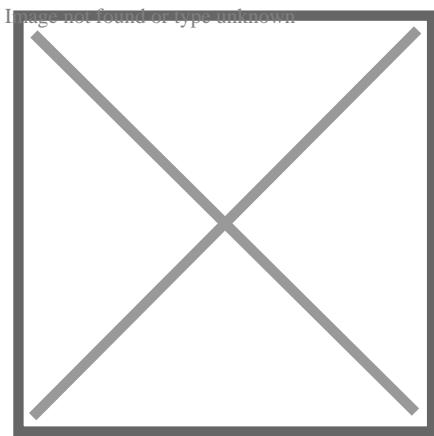
[Reinforced concrete](#) was invented in 1849 by [Joseph Monier](#).[37] and the first reinforced concrete house was built by [François Coignet](#)[38] in 1853. The first concrete reinforced bridge was designed and built by [Joseph Monier](#) in 1875.[39]

[Prestressed concrete](#) and [post-tensioned concrete](#) were pioneered by [Eugène Freyssinet](#), a French [structural](#) and [civil engineer](#). Concrete components or structures are compressed by tendon cables during, or after, their fabrication in order to strengthen them against [tensile](#) forces developing when put in service. Freyssinet [patented](#) the technique on 2 October 1928.[

Composition

[edit]

Concrete is an artificial **composite material**, comprising a matrix of cementitious binder (typically **Portland cement** paste or **asphalt**) and a dispersed phase or "filler" of **aggregate** (typically a rocky material, loose stones, and sand). The binder "glues" the filler together to form a synthetic **conglomerate**.^[41] Many **types of concrete** are available, determined by the formulations of binders and the types of aggregate used to suit the application of the engineered material. These variables determine strength and density, as well as chemical and thermal resistance of the finished product.



Cross section of a concrete **railway sleeper** below a rail

Construction aggregates consist of large chunks of material in a concrete mix, generally a coarse **gravel** or crushed rocks such as **limestone**, or **granite**, along with finer materials such as **sand**.

Cement paste, most commonly made of **Portland cement**, is the most prevalent kind of concrete binder. For cementitious binders, **water** is mixed with the dry cement powder and aggregate, which produces a semi-liquid slurry (paste) that can be shaped, typically by pouring it into a form. The concrete solidifies and hardens through a **chemical process** called **hydration**. The water reacts with the cement, which bonds the other components together, creating a robust, stone-like material. Other cementitious materials, such as **fly ash** and **slag cement**, are sometimes added—either pre-blended with the cement or directly as a concrete component—and become a part of the binder for the aggregate.^[42] Fly ash and slag can enhance some properties of concrete such as fresh properties and durability.^[42] Alternatively, other materials can also be used as a concrete binder: the most prevalent substitute is **asphalt**, which is used as the binder in **asphalt concrete**.

Admixtures are added to modify the cure rate or properties of the material. Mineral admixtures use recycled materials as concrete ingredients. Conspicuous materials include fly ash, a by-product of coal-fired power plants; ground granulated blast furnace slag, a by-product of steelmaking; and silica fume, a by-product of industrial electric arc furnaces.

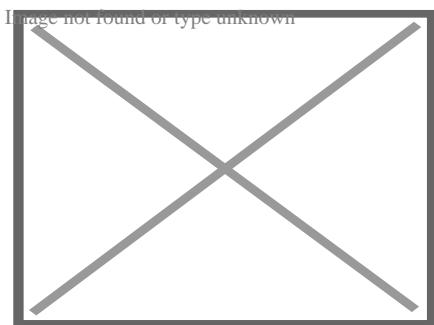
Structures employing Portland cement concrete usually include steel reinforcement because this type of concrete can be formulated with high compressive strength, but always has lower tensile strength. Therefore, it is usually reinforced with materials that are strong in tension, typically steel rebar.

The mix design depends on the type of structure being built, how the concrete is mixed and delivered, and how it is placed to form the structure.

Cement

[edit]

Main article: [Cement](#)



Several tons of bagged cement, about two minutes of output from a 10,000 ton per day cement kiln

Portland cement is the most common type of cement in general usage. It is a basic ingredient of concrete, mortar, and many plasters.^[43] It consists of a mixture of calcium silicates (alite, belite), aluminates and ferrites—compounds, which will react with water. Portland cement and similar materials are made by heating limestone (a source of calcium) with clay or shale (a source of silicon, aluminium and iron) and grinding this product (called clinker) with a source of sulfate (most commonly gypsum).

Cement kilns are extremely large, complex, and inherently dusty industrial installations. Of the various ingredients used to produce a given quantity of concrete, the cement is the most energetically expensive. Even complex and efficient kilns require 3.3 to 3.6 gigajoules of energy to produce a ton of clinker and then grind it into cement. Many kilns can be fueled with difficult-to-dispose-of wastes, the most common being used tires. The extremely high temperatures and long periods of time at those temperatures allows cement kilns to efficiently and completely burn even difficult-to-use fuels.^[44] The five major compounds of calcium silicates and aluminates comprising Portland cement range from 5 to 50% in weight.

Curing

[edit]

Combining water with a cementitious material forms a cement paste by the process of hydration. The cement paste glues the aggregate together, fills voids within it, and makes it flow more freely.[45]

As stated by [Abrams' law](#), a lower water-to-cement ratio yields a stronger, more [durable](#) concrete, whereas more water gives a freer-flowing concrete with a higher [slump](#).[46] The hydration of cement involves many concurrent reactions. The process involves [polymerization](#), the interlinking of the silicates and aluminate components as well as their bonding to sand and gravel particles to form a solid mass.[47] One illustrative conversion is the hydration of tricalcium silicate:

Cement chemist notation: $\text{C}_3\text{S} + \text{H} \rightarrow \text{C-S-H} + \text{CH} + \text{heat}$

Standard notation: $\text{Ca}_3\text{SiO}_5 + \text{H}_2\text{O} \rightarrow$

$\text{CaO} \cdot \text{Al}_2\text{O}_5 \cdot 3\text{SiO}_2 + \text{H}_2\text{O} \rightarrow \text{Ca}_3\text{SiO}_5 + \text{H}_2\text{O}$

$\text{CaO} \cdot \text{Al}_2\text{O}_5 \cdot 3\text{SiO}_2 + \text{H}_2\text{O} \rightarrow \text{Ca}_3\text{SiO}_5 + \text{H}_2\text{O}$

Balanced: $2 \text{Ca}_3\text{SiO}_5 + 7 \text{H}_2\text{O} \rightarrow 3 \text{CaO} \cdot \text{Al}_2\text{O}_5 \cdot 3\text{SiO}_2 + 4 \text{H}_2\text{O}$

$2 \text{Ca}_3\text{SiO}_5 + 7 \text{H}_2\text{O} \rightarrow 3 \text{CaO} \cdot \text{Al}_2\text{O}_5 \cdot 3\text{SiO}_2 + 4 \text{H}_2\text{O}$

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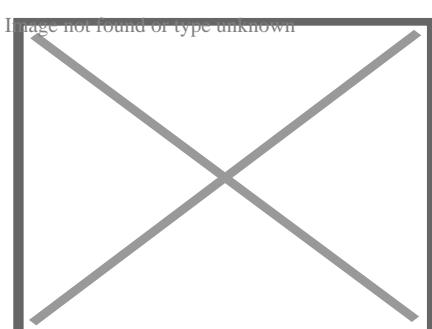
(approximately as the exact ratios of CaO, SiO₂ and H₂O in C-S-H can vary)[47]

The hydration (curing) of cement is irreversible.[48]

Aggregates

[edit]

Main article: [Construction aggregate](#)



Crushed stone aggregates

Fine and coarse aggregates make up the bulk of a concrete mixture. Sand, natural gravel, and crushed stone are used mainly for this purpose. Recycled aggregates (from construction, demolition, and excavation waste) are increasingly used as partial replacements for natural aggregates, while a number of manufactured aggregates, including air-cooled blast furnace slag and bottom ash are also permitted.

The size distribution of the aggregate determines how much binder is required. Aggregate with a very even size distribution has the biggest gaps whereas adding aggregate with smaller particles tends to fill these gaps. The binder must fill the gaps between the aggregate as well as paste the surfaces of the aggregate together, and is typically the most expensive component. Thus, variation in sizes of the aggregate reduces the cost of concrete.^[49] The aggregate is nearly always stronger than the binder, so its use does not negatively affect the strength of the concrete.

Redistribution of aggregates after compaction often creates non-homogeneity due to the influence of vibration. This can lead to strength gradients.^[50]

Decorative stones such as quartzite, small river stones or crushed glass are sometimes added to the surface of concrete for a decorative "exposed aggregate" finish, popular among landscape designers.

Admixtures

[\[edit\]](#)

Admixtures are materials in the form of powder or fluids that are added to the concrete to give it certain characteristics not obtainable with plain concrete mixes. Admixtures are defined as additions "made as the concrete mix is being prepared".^[51] The most common admixtures are retarders and accelerators. In normal use, admixture dosages are less than 5% by mass of cement and are added to the concrete at the time of batching/mixing.^[52] (See § Production below.) The common types of admixtures^[53] are as follows:

- Accelerators speed up the hydration (hardening) of the concrete. Typical materials used are calcium chloride, calcium nitrate and sodium nitrate. However, use of chlorides may cause corrosion in steel reinforcing and is prohibited in some countries, so that nitrates may be favored, even though they are less effective than the chloride salt. Accelerating admixtures are especially useful for modifying the properties of concrete in cold weather.
- Air entraining agents add and entrain tiny air bubbles in the concrete, which reduces damage during freeze-thaw cycles, increasing durability. However, entrained air entails a tradeoff with strength, as each 1% of air may decrease compressive strength by 5%.^[54] If too much air becomes trapped in the concrete as a result of the mixing process, defoamers can be used to encourage the air bubble to agglomerate, rise to the surface

of the wet concrete and then disperse.

- Bonding agents are used to create a bond between old and new concrete (typically a type of polymer) with wide temperature tolerance and corrosion resistance.
- **Corrosion inhibitors** are used to minimize the corrosion of steel and steel bars in concrete.
- Crystalline admixtures are typically added during batching of the concrete to lower permeability. The reaction takes place when exposed to water and un-hydrated cement particles to form insoluble needle-shaped crystals, which fill capillary pores and micro-cracks in the concrete to block pathways for water and waterborne contaminants. Concrete with crystalline admixture can expect to self-seal as constant exposure to water will continuously initiate crystallization to ensure permanent waterproof protection.
- **Pigments** can be used to change the color of concrete, for aesthetics.
- **Plasticizers** increase the workability of plastic, or "fresh", concrete, allowing it to be placed more easily, with less consolidating effort. A typical plasticizer is lignosulfonate. Plasticizers can be used to reduce the water content of a concrete while maintaining workability and are sometimes called water-reducers due to this use. Such treatment improves its strength and durability characteristics.
- **Superplasticizers** (also called high-range water-reducers) are a class of plasticizers that have fewer deleterious effects and can be used to increase workability more than is practical with traditional plasticizers. Superplasticizers are used to increase compressive strength. It increases the **workability** of the concrete and lowers the need for water content by 15–30%.
- Pumping aids improve pumpability, thicken the paste and reduce separation and bleeding.
- **Retarders** slow the hydration of concrete and are used in large or difficult pours where partial setting is undesirable before completion of the pour. Typical retarders include sugar, sodium gluconate, citric acid, and tartaric acid.[\[55\]](#)

Mineral admixtures and blended cements

[\[edit\]](#)

Components of cement:
comparison of chemical and physical characteristics[\[a\]](#)[\[56\]](#)[\[57\]](#)[\[58\]](#)

Property	Portland cement	Siliceous] fly ash	Calcareous [c] fly ash	Slag cement	Silica fume
Proportion by mass (%)	SiO ₂	21.9	52	35	35
	Al ₂ O ₃	6.9	23	18	12
	Fe ₂ O ₃	3	11	6	1

CaO	63	5	21	40	< 1
MgO	2.5	—	—	—	—
SO₃	1.7	—	—	—	—
Specific surface (m²/kg) [d]	370	420	420	400	15,000 – 30,000
Specific gravity	3.15	2.38	2.65	2.94	2.22
General purpose	Primary binder	Cement replacement	Cement replacement	Property enhancer	

1. ▲ Values shown are approximate: those of a specific material may vary.
2. ▲ ASTM C618 Class F
3. ▲ ASTM C618 Class C
4. ▲ Specific surface measurements for silica fume by nitrogen adsorption (BET) method, others by air permeability method (Blaine).

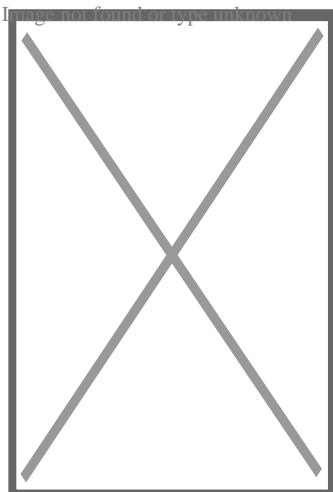
Inorganic materials that have pozzolanic or latent hydraulic properties, these very fine-grained materials are added to the concrete mix to improve the properties of concrete (mineral admixtures),[52] or as a replacement for Portland cement (blended cements).[59] Products which incorporate limestone, fly ash, blast furnace slag, and other useful materials with pozzolanic properties into the mix, are being tested and used. These developments are ever growing in relevance to minimize the impacts caused by cement use, notorious for being one of the largest producers (at about 5 to 10%) of global greenhouse gas emissions.[60] The use of alternative materials also is capable of lowering costs, improving concrete properties, and recycling wastes, the latest being relevant for circular economy aspects of the construction industry, whose demand is ever growing with greater impacts on raw material extraction, waste generation and landfill practices.

- Fly ash: A by-product of coal-fired electric generating plants, it is used to partially replace Portland cement (by up to 60% by mass). The properties of fly ash depend on the type of coal burnt. In general, siliceous fly ash is pozzolanic, while calcareous fly ash has latent hydraulic properties.[61]
- Ground granulated blast furnace slag (GGBFS or GGBS): A by-product of steel production is used to partially replace Portland cement (by up to 80% by mass). It has latent hydraulic properties.[62]
- Silica fume: A by-product of the production of silicon and ferrosilicon alloys. Silica fume is similar to fly ash, but has a particle size 100 times smaller. This results in a higher surface-to-volume ratio and a much faster pozzolanic reaction. Silica fume is used to increase strength and durability of concrete, but generally requires the use of superplasticizers for workability.[63]

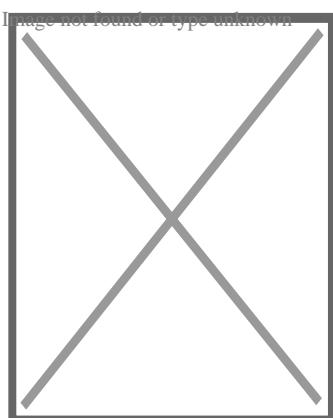
- High reactivity **metakaolin** (HRM): Metakaolin produces concrete with **strength** and **durability** similar to concrete made with silica fume. While silica fume is usually dark gray or black in color, high-reactivity metakaolin is usually bright white in color, making it the preferred choice for architectural concrete where appearance is important.
- **Carbon nanofibers** can be added to concrete to enhance compressive strength and gain a higher **Young's modulus**, and also to improve the electrical properties required for strain monitoring, damage evaluation and self-health monitoring of concrete. Carbon fiber has many advantages in terms of mechanical and electrical properties (e.g., higher strength) and self-monitoring behavior due to the high **tensile strength** and high **electrical conductivity**.^[64]
- Carbon products have been added to make concrete electrically conductive, for deicing purposes.^[65]
- New research from Japan's **University of Kitakyushu** shows that a washed and dried recycled mix of used diapers can be an environmental solution to producing less landfill and using less sand in concrete production. A model home was built in Indonesia to test the strength and durability of the new diaper-cement composite.^[66]

Production

[\[edit\]](#)



Concrete plant showing a **concrete mixer** being filled from ingredient silos



Concrete mixing plant in Birmingham, Alabama, in 1936

Concrete production is the process of mixing together the various ingredients—water, aggregate, cement, and any additives—to produce concrete. Concrete production is time-sensitive. Once the ingredients are mixed, workers must put the concrete in place before it hardens. In modern usage, most concrete production takes place in a large type of industrial facility called a **concrete plant**, or often a batch plant. The usual method of placement is casting in **formwork**, which holds the mix in shape until it has set enough to hold its shape unaided.

Concrete plants come in two main types, ready-mix plants and central mix plants. A ready-mix plant blends all of the solid ingredients, while a central mix does the same but adds water. A central-mix plant offers more precise control of the concrete quality. Central mix plants must be close to the work site where the concrete will be used, since hydration begins at the plant.

A concrete plant consists of large hoppers for storage of various ingredients like cement, storage for bulk ingredients like aggregate and water, mechanisms for the addition of various additives and amendments, machinery to accurately weigh, move, and mix some or all of those ingredients, and facilities to dispense the mixed concrete, often to a **concrete mixer truck**.

Modern concrete is usually prepared as a viscous fluid, so that it may be poured into forms. The forms are containers that define the desired shape. Concrete **formwork** can be prepared in several ways, such as **slip forming** and **steel plate construction**. Alternatively, concrete can be mixed into dryer, non-fluid forms and used in factory settings to manufacture **precast concrete** products.

Interruption in pouring the concrete can cause the initially placed material to begin to set before the next batch is added on top. This creates a horizontal plane of weakness called a *cold joint* between the two batches.^[67] Once the mix is where it should be, the curing process must be controlled to ensure that the concrete attains the desired attributes. During concrete preparation, various technical details may affect the quality and nature of the product.

Design mix

[\[edit\]](#)

Design mix ratios are decided by an engineer after analyzing the properties of the specific ingredients being used. Instead of using a 'nominal mix' of 1 part cement, 2 parts sand, and 4 parts aggregate, a civil engineer will custom-design a concrete mix to exactly meet the requirements of the site and conditions, setting material ratios and often designing an admixture package to fine-tune the properties or increase the performance envelope of the

mix. Design-mix concrete can have very broad specifications that cannot be met with more basic nominal mixes, but the involvement of the engineer often increases the cost of the concrete mix.

Concrete mixes are primarily divided into nominal mix, standard mix and design mix.

Nominal mix ratios are given in volume of $\text{Cement} : \text{Sand} : \text{Aggregate}$.
Image not found or type unknown

These ratios are a simple, fast way of getting a basic idea of the properties of the finished concrete without having to perform testing in advance.

Various governing bodies (such as [British Standards](#)) define nominal mix ratios into a number of grades, usually ranging from lower [compressive strength](#) to higher compressive strength. The grades usually indicate the 28-day cure strength.[\[68\]](#)

Mixing

[\[edit\]](#)

See also: [Volumetric concrete mixer](#) and [Concrete mixer](#)

Thorough mixing is essential to produce uniform, high-quality concrete.

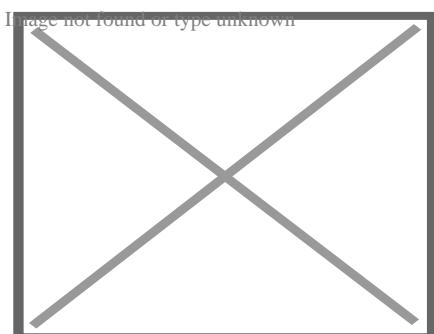
Separate paste mixing has shown that the mixing of cement and water into a paste before combining these materials with [aggregates](#) can increase the [compressive strength](#) of the resulting concrete.[\[69\]](#) The paste is generally mixed in a *high-speed*, shear-type mixer at a [w/c](#) (water to cement ratio) of 0.30 to 0.45 by mass. The cement paste premix may include admixtures such as accelerators or retarders, [superplasticizers](#), [pigments](#), or [silica fume](#). The premixed paste is then blended with aggregates and any remaining batch water and final mixing is completed in conventional concrete mixing equipment.[\[70\]](#)

Resonant acoustic mixing has also been found effective in producing ultra-high performance cementitious materials, as it produces a dense matrix with low porosity.[\[71\]](#)

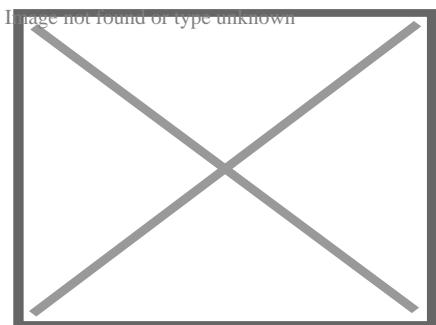
Sample analysis—workability

[\[edit\]](#)

Main article: [Concrete slump test](#)



Concrete floor of a **parking garage** being placed



Pouring and smoothing out concrete at Palisades Park in Washington, DC

Workability is the ability of a fresh (plastic) concrete mix to fill the form/mold properly with the desired work (pouring, pumping, spreading, tamping, vibration) and without reducing the concrete's quality. Workability depends on water content, aggregate (shape and size distribution), cementitious content and age (level of **hydration**) and can be modified by adding chemical admixtures, like superplasticizer. Raising the water content or adding chemical admixtures increases concrete workability. Excessive water leads to increased bleeding or **segregation of aggregates** (when the cement and aggregates start to separate), with the resulting concrete having reduced quality. Changes in gradation can also affect workability of the concrete, although a wide range of gradation can be used for various applications.^{[72][73]} An undesirable gradation can mean using a large aggregate that is too large for the size of the formwork, or which has too few smaller aggregate grades to serve to fill the gaps between the larger grades, or using too little or too much sand for the same reason, or using too little water, or too much cement, or even using jagged crushed stone instead of smoother round aggregate such as pebbles. Any combination of these factors and others may result in a mix which is too harsh, i.e., which does not flow or spread out smoothly, is difficult to get into the formwork, and which is difficult to surface finish.^[74]

Workability can be measured by the **concrete slump test**, a simple measure of the plasticity of a fresh batch of concrete following the **ASTM C 143** or **EN 12350-2** test standards. Slump is normally measured by filling an "**Abrams cone**" with a sample from a fresh batch of concrete. The cone is placed with the wide end down onto a level, non-absorptive surface. It is then filled in three layers of equal volume, with each layer being tamped with a steel rod to consolidate the layer. When the cone is carefully lifted off, the enclosed material slumps a certain amount, owing to gravity. A relatively dry sample slumps very little, having a slump value of one or two inches (25 or 50 mm) out of one foot (300 mm). A relatively wet concrete sample may slump as much as eight inches. Workability can also be measured by the **flow table test**.

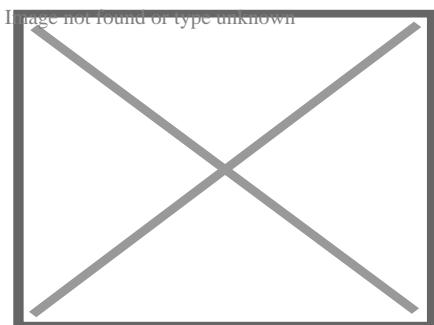
Slump can be increased by addition of chemical admixtures such as plasticizer or **superplasticizer** without changing the **water-cement ratio**.^[75] Some other admixtures, especially air-entraining admixture, can increase the slump of a mix.

High-flow concrete, like **self-consolidating concrete**, is tested by other flow-measuring methods. One of these methods includes placing the cone on the narrow end and observing how the mix flows through the cone while it is gradually lifted.

After mixing, concrete is a fluid and can be pumped to the location where needed.

Curing

[edit]



A concrete slab being kept hydrated during water curing by submersion (ponding)

Maintaining optimal conditions for cement hydration

[edit]

Concrete must be kept moist during curing in order to achieve optimal strength and **durability**. [76] During curing **hydration** occurs, allowing calcium-silicate hydrate (C-S-H) to form. Over 90% of a mix's final strength is typically reached within four weeks, with the remaining 10% achieved over years or even decades.[77] The conversion of **calcium hydroxide** in the concrete into **calcium carbonate** from absorption of **CO₂** over several decades further strengthens the concrete and makes it more resistant to damage. This **carbonation** reaction, however, lowers the pH of the cement pore solution and can corrode the reinforcement bars.

Hydration and hardening of concrete during the first three days is critical. Abnormally fast drying and shrinkage due to factors such as evaporation from wind during placement may lead to increased tensile stresses at a time when it has not yet gained sufficient strength, resulting in greater shrinkage cracking. The early strength of the concrete can be increased if it is kept damp during the curing process. Minimizing stress prior to curing minimizes cracking. High-early-strength concrete is designed to hydrate faster, often by increased use of cement that increases shrinkage and cracking. The strength of concrete changes (increases) for up to three years. It depends on cross-section dimension of elements and conditions of structure exploitation.[50] Addition of short-cut polymer fibers can improve (reduce) shrinkage-induced stresses during curing and increase early and ultimate compression strength.[78]

Properly curing concrete leads to increased strength and lower permeability and avoids cracking where the surface dries out prematurely. Care must also be taken to avoid freezing or overheating due to the **exothermic** setting of cement. Improper curing can cause **spalling**, reduced strength, poor **abrasion** resistance and **cracking**.

Curing techniques avoiding water loss by evaporation

[edit]

During the curing period, concrete is ideally maintained at controlled temperature and humidity. To ensure full hydration during curing, concrete slabs are often sprayed with "curing compounds" that create a water-retaining film over the concrete. Typical films are made of wax or related hydrophobic compounds. After the concrete is sufficiently cured, the film is allowed to abrade from the concrete through normal use.^[79]

Traditional conditions for curing involve spraying or ponding the concrete surface with water. The adjacent picture shows one of many ways to achieve this, ponding—submerging setting concrete in water and wrapping in plastic to prevent dehydration. Additional common curing methods include wet burlap and plastic sheeting covering the fresh concrete.

For higher-strength applications, **accelerated curing** techniques may be applied to the concrete. A common technique involves heating the poured concrete with steam, which serves to both keep it damp and raise the temperature so that the hydration process proceeds more quickly and more thoroughly.

Alternative types

[edit]

Main article: [Types of concrete](#)

Asphalt

[edit]

Main article: [Asphalt concrete](#)

Asphalt concrete (commonly called **asphalt**,^[80] **blacktop**, or **pavement** in North America, and **tarmac**, **bitumen macadam**, or **rolled asphalt** in the **United Kingdom** and **Ireland**) is a **composite material** commonly used to surface **roads**, **parking lots**, **airports**, as well as the core of **embankment dams**.^[81] Asphalt mixtures have been used in pavement construction since the beginning of the twentieth century.^[82] It consists of **mineral aggregate** bound together with **asphalt**, laid in layers, and compacted. The process was refined and enhanced by Belgian inventor and U.S. immigrant **Edward De Smedt**.^[83]

The terms *asphalt* (or *asphaltic*) *concrete*, *bituminous asphalt concrete*, and *bituminous mixture* are typically used only in **engineering** and construction documents, which define concrete as any composite material composed of mineral aggregate adhered with a binder. The abbreviation, AC, is sometimes used for *asphalt concrete* but can also denote *asphalt content* or *asphalt cement*, referring to the liquid asphalt portion of the composite material.

Graphene enhanced concrete

[edit]

Graphene enhanced concretes are standard designs of concrete mixes, except that during the cement-mixing or production process, a small amount of chemically engineered **graphene** (typically < 0.5% by weight) is added.[84][85] These enhanced graphene concretes are designed around the concrete application.

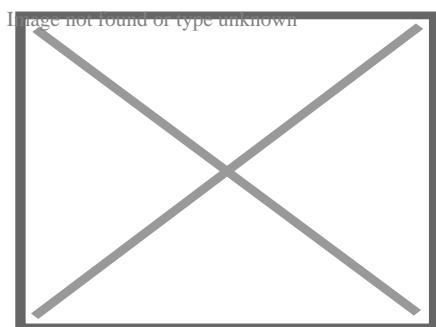
Microbial

[edit]

Bacteria such as *Bacillus pasteurii*, *Bacillus pseudofirmus*, *Bacillus cohnii*, *Sporosarcina pasteurii*, and *Arthrobacter crystallopoietes* increase the compression strength of concrete through their biomass. However some forms of bacteria can also be concrete-destroying.[86] *Bacillus* sp. CT-5. can reduce corrosion of reinforcement in reinforced concrete by up to four times. *Sporosarcina pasteurii* reduces water and chloride permeability. *B. pasteurii* increases resistance to acid.[87] *Bacillus pasteurii* and *B. sphaericus* can induce calcium carbonate precipitation in the surface of cracks, adding compression strength.[88]

Nanoconcrete

[edit]



Decorative plate made of Nano concrete with High-Energy Mixing (HEM)

Nanoconcrete (also spelled "nano concrete" or "nano-concrete") is a class of materials that contains Portland cement particles that are no greater than 100 μm [89] and particles of silica

no greater than 500 ?m, which fill voids that would otherwise occur in normal concrete, thereby substantially increasing the material's strength.[\[90\]](#) It is widely used in foot and highway bridges where high flexural and compressive strength are indicated.[\[88\]](#)

Pervious

[\[edit\]](#)

Main article: [Pervious concrete](#)

Pervious concrete is a mix of specially graded coarse aggregate, cement, water, and little-to-no fine aggregates. This concrete is also known as "no-fines" or porous concrete. Mixing the ingredients in a carefully controlled process creates a paste that coats and bonds the aggregate particles. The hardened concrete contains interconnected air voids totaling approximately 15 to 25 percent. Water runs through the voids in the pavement to the soil underneath. Air entrainment admixtures are often used in freeze-thaw climates to minimize the possibility of frost damage. Pervious concrete also permits rainwater to filter through roads and parking lots, to recharge aquifers, instead of contributing to runoff and flooding.[\[91\]](#)

Polymer

[\[edit\]](#)

Main article: [Polymer concrete](#)

Polymer concretes are mixtures of aggregate and any of various polymers and may be reinforced. The cement is costlier than lime-based cements, but polymer concretes nevertheless have advantages; they have significant tensile strength even without reinforcement, and they are largely impervious to water. Polymer concretes are frequently used for the repair and construction of other applications, such as drains.

Plant fibers

[\[edit\]](#)

Plant fibers and particles can be used in a concrete mix or as a reinforcement.[\[92\]](#)[\[93\]](#)[\[94\]](#) These materials can increase ductility but the lignocellulosic particles hydrolyze during concrete curing as a result of alkaline environment and elevated temperatures[\[95\]](#)[\[96\]](#)[\[97\]](#) Such process, that is difficult to measure,[\[98\]](#) can affect the properties of the resulting concrete.

Sulfur concrete

[\[edit\]](#)

Main article: [Sulfur concrete](#)

Sulfur concrete is a special concrete that uses sulfur as a binder and does not require cement or water.

Volcanic

[\[edit\]](#)

Volcanic concrete substitutes volcanic rock for the limestone that is burned to form clinker. It consumes a similar amount of energy, but does not directly emit carbon as a byproduct.[\[99\]](#) Volcanic rock/ash are used as supplementary cementitious materials in concrete to improve the resistance to sulfate, chloride and alkali silica reaction due to pore refinement.[\[100\]](#) Also, they are generally cost effective in comparison to other aggregates,[\[101\]](#) good for semi and light weight concretes,[\[101\]](#) and good for thermal and acoustic insulation.[\[101\]](#)

Pyroclastic materials, such as pumice, scoria, and ashes are formed from cooling magma during explosive volcanic eruptions. They are used as supplementary cementitious materials (SCM) or as aggregates for cements and concretes.[\[102\]](#) They have been extensively used since ancient times to produce materials for building applications. For example, pumice and other volcanic glasses were added as a natural pozzolanic material for mortars and plasters during the construction of the Villa San Marco in the Roman period (89 BC – 79 AD), which remain one of the best-preserved otium villae of the Bay of Naples in Italy.[\[103\]](#)

Waste light

[\[edit\]](#)

Main article: [Waste light concrete](#)

Waste light is a form of polymer modified concrete. The specific polymer admixture allows the replacement of all the traditional aggregates (gravel, sand, stone) by any mixture of solid waste materials in the grain size of 3–10 mm to form a low-compressive-strength ($3\text{--}20 \text{ N/mm}^2$) product[\[104\]](#) for road and building construction. One cubic meter of waste light concrete contains $1.1\text{--}1.3 \text{ m}^3$ of shredded waste and no other aggregates.

Recycled Aggregate Concrete (RAC)

[\[edit\]](#)



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Recycled aggregate concretes are standard concrete mixes with the addition or substitution of natural aggregates with recycled aggregates sourced from construction and demolition wastes, disused pre-cast concretes or masonry. In most cases, recycled aggregate concrete results in higher water absorption levels by capillary action and permeation, which are the prominent determiners of the strength and durability of the resulting concrete. The increase in water absorption levels is mainly caused by the porous adhered mortar that exists in the recycled aggregates. Accordingly, recycled concrete aggregates that have been washed to reduce the quantity of mortar adhered to aggregates show lower water absorption levels compared to untreated recycled aggregates.

The quality of the recycled aggregate concrete is determined by several factors, including the size, the number of replacement cycles, and the moisture levels of the recycled aggregates. When the recycled concrete aggregates are crushed into coarser fractures, the mixed concrete shows better permeability levels, resulting in an overall increase in strength. In contrast, recycled masonry aggregates provide better qualities when crushed in finer fractures. With each generation of recycled concrete, the resulting compressive strength decreases.

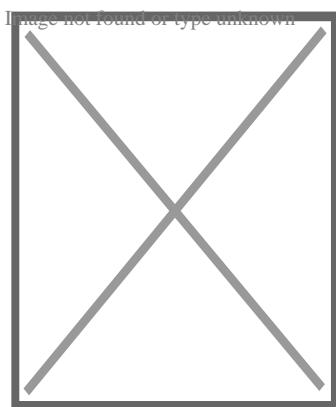
Properties

[\[edit\]](#)

Main article: [Properties of concrete](#)

Concrete has relatively high [compressive strength](#), but much lower [tensile strength](#).^[105] Therefore, it is usually [reinforced](#) with materials that are strong in tension (often steel). The elasticity of concrete is relatively constant at low stress levels but starts decreasing at higher stress levels as matrix cracking develops. Concrete has a very low [coefficient of thermal expansion](#) and shrinks as it matures. All concrete structures crack to some extent, due to shrinkage and tension. Concrete that is subjected to long-duration forces is prone to [creep](#).

Tests can be performed to ensure that the properties of concrete correspond to specifications for the application.



Compression testing of a concrete cylinder

The ingredients affect the strengths of the material. Concrete strength values are usually specified as the lower-bound compressive strength of either a cylindrical or cubic specimen as determined by standard test procedures.

The strengths of concrete is dictated by its function. Very low-strength—14 MPa (2,000 psi) or less—concrete may be used when the concrete must be lightweight.^[106] Lightweight concrete is often achieved by adding air, foams, or lightweight aggregates, with the side effect that the strength is reduced. For most routine uses, 20 to 32 MPa (2,900 to 4,600 psi) concrete is often used. 40 MPa (5,800 psi) concrete is readily commercially available as a more durable, although more expensive, option. Higher-strength concrete is often used for larger civil projects.^[107] Strengths above 40 MPa (5,800 psi) are often used for specific building elements. For example, the lower floor columns of high-rise concrete buildings may use concrete of 80 MPa (11,600 psi) or more, to keep the size of the columns small. Bridges may use long beams of high-strength concrete to lower the number of spans required.^{[108][109]} Occasionally, other structural needs may require high-strength concrete. If a structure must be very rigid, concrete of very high strength may be specified, even much stronger than is required to bear the service loads. Strengths as high as 130 MPa (18,900 psi) have been used commercially for these reasons.^[108]

Energy efficiency

[\[edit\]](#)

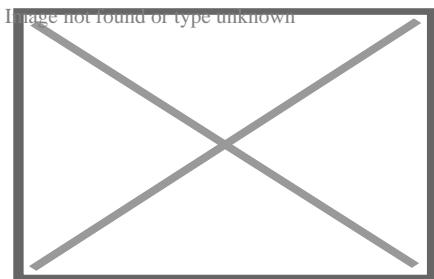
The cement produced for making concrete accounts for about 8% of worldwide CO₂ emissions per year (compared to, e.g., global aviation at 1.9%).^{[110][111]} The two largest sources of CO₂ are produced by the cement manufacturing process, arising from (1) the decarbonation reaction of limestone in the cement kiln (T ? 950 °C), and (2) from the combustion of fossil fuel to reach the sintering temperature (T ? 1450 °C) of cement clinker in the kiln. The energy required for extracting, crushing, and mixing the raw materials (construction aggregates used in the concrete production, and also limestone and clay feeding the cement kiln) is lower. Energy requirement for transportation of ready-mix concrete is also lower because it is produced nearby the construction site from local resources, typically manufactured within 100 kilometers of the job site.^[112] The overall embodied energy of concrete at roughly 1 to 1.5 megajoules per kilogram is therefore lower than for many structural and construction materials.^[113]

Once in place, concrete offers a great energy efficiency over the lifetime of a building.^[114] Concrete walls leak air far less than those made of wood frames.^[115] Air leakage accounts for a large percentage of energy loss from a home. The thermal mass properties of concrete increase the efficiency of both residential and commercial buildings. By storing and releasing the energy needed for heating or cooling, concrete's thermal mass delivers year-round benefits by reducing temperature swings inside and minimizing heating and cooling costs.^[116] While insulation reduces energy loss through the building envelope, thermal mass uses

walls to store and release energy. Modern concrete wall systems use both external insulation and thermal mass to create an energy-efficient building. Insulating concrete forms (ICFs) are hollow blocks or panels made of either insulating foam or **rastra** that are stacked to form the shape of the walls of a building and then filled with reinforced concrete to create the structure.

Fire safety

[edit]



Boston City Hall (1968) is a **Brutalist** design constructed largely of precast and poured in place concrete.

Concrete buildings are more resistant to fire than those constructed using steel frames, since concrete has lower heat conductivity than steel and can thus last longer under the same fire conditions. Concrete is sometimes used as a fire protection for steel frames, for the same effect as above. Concrete as a fire shield, for example **Fondy fyre**, can also be used in extreme environments like a missile launch pad.

Options for non-combustible construction include floors, ceilings and roofs made of cast-in-place and hollow-core precast concrete. For walls, concrete masonry technology and **Insulating Concrete Forms** (ICFs) are additional options. ICFs are hollow blocks or panels made of fireproof insulating foam that are stacked to form the shape of the walls of a building and then filled with reinforced concrete to create the structure.

Concrete also provides good resistance against externally applied forces such as high winds, hurricanes, and tornadoes owing to its lateral stiffness, which results in minimal horizontal movement. However, this stiffness can work against certain types of concrete structures, particularly where a relatively higher flexing structure is required to resist more extreme forces.

Earthquake safety

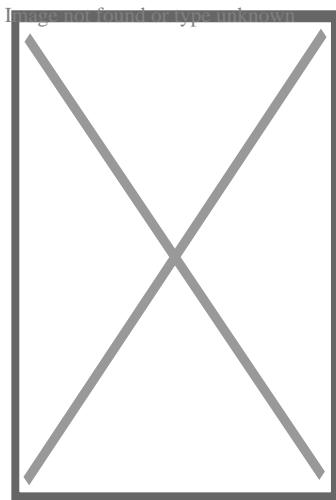
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As discussed above, concrete is very strong in compression, but weak in tension. Larger earthquakes can generate very large shear loads on structures. These shear loads subject

the structure to both tensile and compressional loads. Concrete structures without reinforcement, like other unreinforced masonry structures, can fail during severe earthquake shaking. Unreinforced masonry structures constitute one of the largest earthquake risks globally.[\[117\]](#) These risks can be reduced through seismic retrofitting of at-risk buildings, (e.g. school buildings in Istanbul, Turkey).[\[118\]](#)

Construction

[\[edit\]](#)



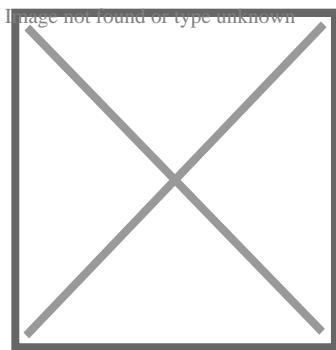
The [City Court Building](#) in Buffalo, New York

Concrete is one of the most durable building materials. It provides superior fire resistance compared with wooden construction and gains strength over time. Structures made of concrete can have a long service life.[\[119\]](#) Concrete is used more than any other artificial material in the world.[\[120\]](#) As of 2006, about 7.5 billion cubic meters of concrete are made each year, more than one cubic meter for every person on Earth.[\[121\]](#)

Reinforced

[\[edit\]](#)

Main article: [Reinforced concrete](#)



Christ the Redeemer statue in Rio de Janeiro, Brazil. It is made of reinforced concrete clad in a mosaic of thousands of triangular soapstone tiles.[122]

The use of reinforcement, in the form of iron was introduced in the 1850s by French industrialist François Coignet, and it was not until the 1880s that German civil engineer G. A. Wayss used steel as reinforcement. Concrete is a relatively brittle material that is strong under compression but less in tension. Plain, unreinforced concrete is unsuitable for many structures as it is relatively poor at withstanding stresses induced by vibrations, wind loading, and so on. Hence, to increase its overall strength, steel rods, wires, mesh or cables can be embedded in concrete before it is set. This reinforcement, often known as rebar, resists tensile forces.[123]

Reinforced concrete (RC) is a versatile composite and one of the most widely used materials in modern construction. It is made up of different constituent materials with very different properties that complement each other. In the case of reinforced concrete, the component materials are almost always concrete and steel. These two materials form a strong bond together and are able to resist a variety of applied forces, effectively acting as a single structural element.[124]

Reinforced concrete can be precast or cast-in-place (in situ) concrete, and is used in a wide range of applications such as; slab, wall, beam, column, foundation, and frame construction. Reinforcement is generally placed in areas of the concrete that are likely to be subject to tension, such as the lower portion of beams. Usually, there is a minimum of 50 mm cover, both above and below the steel reinforcement, to resist spalling and corrosion which can lead to structural instability.[123] Other types of non-steel reinforcement, such as **Fibre-reinforced concretes** are used for specialized applications, predominately as a means of controlling cracking.[124]

Precast

[edit]

Main article: **Precast concrete**

Precast concrete is concrete which is cast in one place for use elsewhere and is a mobile material. The largest part of precast production is carried out in the works of specialist suppliers, although in some instances, due to economic and geographical factors, scale of product or difficulty of access, the elements are cast on or adjacent to the construction site.[125] Precasting offers considerable advantages because it is carried out in a controlled environment, protected from the elements, but the downside of this is the contribution to greenhouse gas emission from transportation to the construction site.[124]

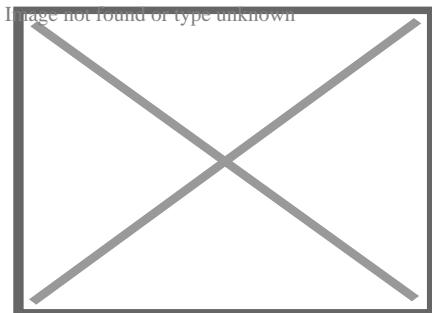
Advantages to be achieved by employing precast concrete:[125]

- Preferred dimension schemes exist, with elements of tried and tested designs available from a catalogue.
- Major savings in time result from manufacture of structural elements apart from the series of events which determine overall duration of the construction, known by planning engineers as the 'critical path'.
- Availability of Laboratory facilities capable of the required control tests, many being certified for specific testing in accordance with National Standards.
- Equipment with capability suited to specific types of production such as stressing beds with appropriate capacity, moulds and machinery dedicated to particular products.
- High-quality finishes achieved direct from the mould eliminate the need for interior decoration and ensure low maintenance costs.

Mass structures

[\[edit\]](#)

Main article: [Mass concrete](#)



Aerial photo of reconstruction at [Taum Sauk](#) (Missouri) pumped storage facility in late November 2009. After the original reservoir failed, the new reservoir was made of roller-compacted concrete.

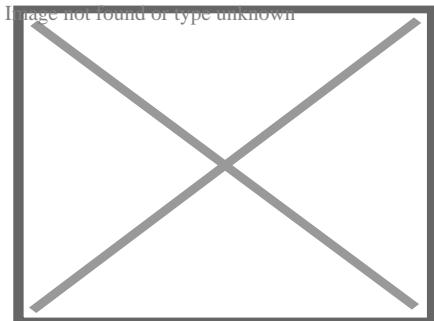
Due to cement's [exothermic](#) chemical reaction while setting up, large concrete structures such as [dams](#), [navigation locks](#), large mat foundations, and large [breakwaters](#) generate excessive heat during hydration and associated expansion. To mitigate these effects, [post-cooling](#)^[126] is commonly applied during construction. An early example at Hoover Dam used a network of pipes between vertical concrete placements to circulate cooling water during the curing process to avoid damaging overheating. Similar systems are still used; depending on volume of the pour, the concrete mix used, and ambient air temperature, the cooling process may last for many months after the concrete is placed. Various methods also are used to pre-cool the concrete mix in mass concrete structures.^[126]

Another approach to mass concrete structures that minimizes cement's thermal by-product is the use of [roller-compacted concrete](#), which uses a dry mix which has a much lower cooling requirement than conventional wet placement. It is deposited in thick layers as a semi-dry material then roller [compacted](#) into a dense, strong mass.

Surface finishes

[edit]

Main article: [Decorative concrete](#)



Black basalt polished concrete floor

Raw concrete surfaces tend to be porous and have a relatively uninteresting appearance. Many finishes can be applied to improve the appearance and preserve the surface against staining, water penetration, and freezing.

Examples of improved appearance include [stamped concrete](#) where the wet concrete has a pattern impressed on the surface, to give a paved, cobbled or brick-like effect, and may be accompanied with coloration. Another popular effect for flooring and table tops is [polished concrete](#) where the concrete is polished optically flat with diamond abrasives and sealed with polymers or other sealants.

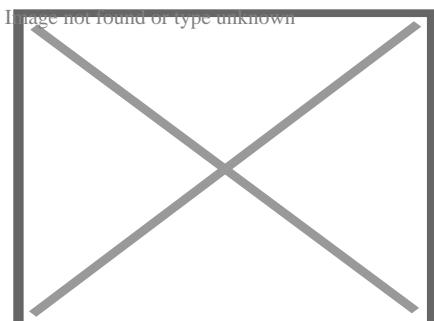
Other finishes can be achieved with chiseling, or more conventional techniques such as painting or covering it with other materials.

The proper treatment of the surface of concrete, and therefore its characteristics, is an important stage in the construction and renovation of architectural structures.[\[127\]](#)

Prestressed

[edit]

Main article: [Prestressed concrete](#)



Stylized cacti decorate a sound/retaining wall in [Scottsdale, Arizona](#)

Prestressed concrete is a form of reinforced concrete that builds in **compressive stresses** during construction to oppose tensile stresses experienced in use. This can greatly reduce the weight of beams or slabs, by better distributing the stresses in the structure to make optimal use of the reinforcement. For example, a horizontal beam tends to sag. Prestressed reinforcement along the bottom of the beam counteracts this. In pre-tensioned concrete, the prestressing is achieved by using steel or polymer tendons or bars that are subjected to a tensile force prior to casting, or for post-tensioned concrete, after casting.

There are two different systems being used:[\[124\]](#)

- **Pretensioned concrete** is almost always precast, and contains steel wires (tendons) that are held in tension while the concrete is placed and sets around them.
- **Post-tensioned concrete** has ducts through it. After the concrete has gained strength, tendons are pulled through the ducts and stressed. The ducts are then filled with grout. Bridges built in this way have experienced considerable corrosion of the tendons, so external post-tensioning may now be used in which the tendons run along the outer surface of the concrete.

More than 55,000 miles (89,000 km) of highways in the United States are paved with this material. **Reinforced concrete**, **prestressed concrete** and **precast concrete** are the most widely used **types of concrete** functional extensions in modern days. For more information see [Brutalist architecture](#).

Placement

[\[edit\]](#)

Once mixed, concrete is typically transported to the place where it is intended to become a structural item. Various methods of transportation and placement are used depending on the distances involved, quantity needed, and other details of application. Large amounts are often transported by truck, poured free under gravity or through a **tremie**, or **pumped** through a pipe. Smaller amounts may be carried in a skip (a metal container which can be tilted or opened to release the contents, usually transported by crane or hoist), or wheelbarrow, or carried in toggle bags for manual placement underwater.

Cold weather placement

[\[edit\]](#)



Pohjolatalo, an office building made of concrete in the city center of **Kouvola** in **Kymenlaakso**, Finland

Extreme weather conditions (extreme heat or cold; windy conditions, and humidity variations) can significantly alter the quality of concrete. Many precautions are observed in cold weather placement.^[128] Low temperatures significantly slow the chemical reactions involved in hydration of cement, thus affecting the strength development. Preventing freezing is the most important precaution, as formation of ice crystals can cause damage to the crystalline structure of the hydrated cement paste. If the surface of the concrete pour is insulated from the outside temperatures, the heat of hydration will prevent freezing.

The **American Concrete Institute** (ACI) definition of cold weather placement, ACI 306,^[129] is:

- A period when for more than three successive days the average daily air temperature drops below 40 °F (~ 4.5 °C), and
- Temperature stays below 50 °F (10 °C) for more than one-half of any 24-hour period.

In **Canada**, where temperatures tend to be much lower during the cold season, the following criteria are used by **CSA** A23.1:

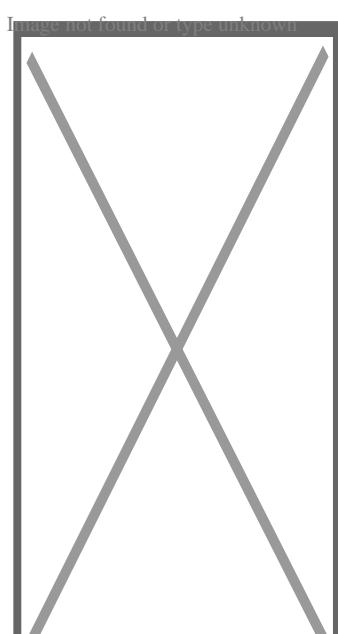
- When the air temperature is ? 5 °C, and
- When there is a probability that the temperature may fall below 5 °C within 24 hours of placing the concrete.

The minimum strength before exposing concrete to extreme cold is 500 psi (3.4 MPa). CSA A 23.1 specified a compressive strength of 7.0 MPa to be considered safe for exposure to freezing.

Underwater placement

[\[edit\]](#)

See also: [Underwater construction](#)



Assembled tremie placing concrete underwater

Concrete may be placed and cured underwater. Care must be taken in the placement method to prevent washing out the cement. Underwater placement methods include the **tremie**, pumping, skip placement, manual placement using toggle bags, and bagwork.[\[130\]](#)

A tremie is a vertical, or near-vertical, pipe with a hopper at the top used to pour concrete underwater in a way that avoids washout of cement from the mix due to turbulent water contact with the concrete while it is flowing. This produces a more reliable strength of the product. The toggle bag method is generally used for placing small quantities and for repairs. Wet concrete is loaded into a reusable canvas bag and squeezed out at the required place by the diver. Care must be taken to avoid washout of the cement and fines.

Underwater bagwork is the manual placement by divers of woven cloth bags containing dry mix, followed by piercing the bags with steel rebar pins to tie the bags together after every two or three layers, and create a path for hydration to induce curing, which can typically take about 6 to 12 hours for initial hardening and full hardening by the next day. Bagwork concrete will generally reach full strength within 28 days. Each bag must be pierced by at least one, and preferably up to four pins. Bagwork is a simple and convenient method of underwater concrete placement which does not require pumps, plant, or formwork, and which can minimise environmental effects from dispersing cement in the water. Prefilled bags are available, which are sealed to prevent premature hydration if stored in suitable dry conditions. The bags may be biodegradable.[\[131\]](#)

Grouted aggregate is an alternative method of forming a concrete mass underwater, where the forms are filled with coarse aggregate and the voids then completely filled from the bottom by displacing the water with pumped **grout**.[\[130\]](#)

Roads

[\[edit\]](#)

Concrete roads are more fuel efficient to drive on,[\[132\]](#) more reflective and last significantly longer than other paving surfaces, yet have a much smaller market share than other paving solutions. Modern-paving methods and design practices have changed the economics of concrete paving, so that a well-designed and placed concrete pavement will be less expensive on initial costs and significantly less expensive over the life cycle. Another major benefit is that **pervious concrete** can be used, which eliminates the need to place **storm**

drains near the road, and reducing the need for slightly sloped roadway to help rainwater to run off. No longer requiring discarding rainwater through use of drains also means that less electricity is needed (more pumping is otherwise needed in the water-distribution system), and no rainwater gets polluted as it no longer mixes with polluted water. Rather, it is immediately absorbed by the ground.[\[citation needed\]](#)

Tube forest

[\[edit\]](#)

Cement molded into a forest of tubular structures can be 5.6 times more resistant to cracking/failure than standard concrete. The approach mimics mammalian **cortical bone** that features elliptical, hollow **osteons** suspended in an organic matrix, connected by relatively weak "cement lines". Cement lines provide a preferable in-plane crack path. This design fails via a "stepwise toughening mechanism". Cracks are contained within the tube, reducing spreading, by dissipating energy at each tube/step.[\[133\]](#)

Environment, health and safety

[\[edit\]](#)

Main article: [Environmental impact of concrete](#)



This section may be unbalanced towards certain viewpoints. Please [improve the article](#) or discuss the issue on the [talk page](#). (January 2024)

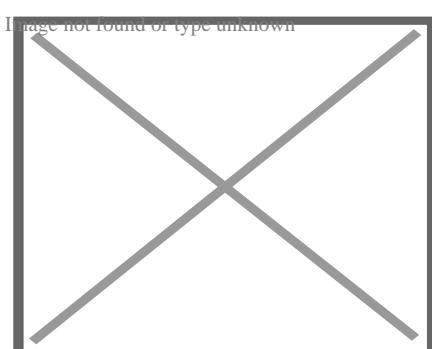
The manufacture and use of concrete produce a wide range of environmental, economic and social impacts.

Health and safety

[\[edit\]](#)

See also: [Occupational dust exposure § Construction](#)

[Concrete dust](#) emission from the use of power tool



Recycled crushed concrete, to be reused as granular fill, is loaded into a semi-dump truck

Grinding of concrete can produce **hazardous dust**. Exposure to cement dust can lead to issues such as **silicosis**, kidney disease, skin irritation and similar effects. The U.S. **National Institute for Occupational Safety and Health** in the United States recommends attaching local exhaust ventilation shrouds to electric concrete grinders to control the spread of this dust. In addition, the **Occupational Safety and Health Administration** (OSHA) has placed more stringent regulations on companies whose workers regularly come into contact with silica dust. An updated silica rule, which OSHA put into effect 23 September 2017 for construction companies, restricted the amount of breathable crystalline silica workers could legally come into contact with to 50 micro grams per cubic meter of air per 8-hour workday. That same rule went into effect 23 June 2018 for general industry, **hydraulic fracturing** and maritime. That deadline was extended to 23 June 2021 for engineering controls in the hydraulic fracturing industry. Companies which fail to meet the tightened safety regulations can face financial charges and extensive penalties. The presence of some substances in concrete, including useful and unwanted additives, can cause health concerns due to toxicity and radioactivity. Fresh concrete (before curing is complete) is highly alkaline and must be handled with proper protective equipment.

Cement

[edit]

A major component of concrete is **cement**, a fine powder used mainly to bind sand and coarser aggregates together in concrete. Although a variety of cement types exist, the most common is "**Portland cement**", which is produced by mixing clinker with smaller quantities of other additives such as gypsum and ground limestone. The production of clinker, the main constituent of cement, is responsible for the bulk of the sector's greenhouse gas emissions, including both energy intensity and process emissions.[\[134\]](#)

The cement industry is one of the three primary producers of carbon dioxide, a major greenhouse gas – the other two being energy production and transportation industries. On average, every tonne of cement produced releases one tonne of CO₂ into the atmosphere. Pioneer cement manufacturers have claimed to reach lower carbon intensities, with 590 kg of CO₂eq per tonne of cement produced.[\[135\]](#) The emissions are due to combustion and calcination processes,[\[136\]](#) which roughly account for 40% and 60% of the greenhouse gases, respectively. Considering that cement is only a fraction of the constituents of concrete, it is estimated that a tonne of concrete is responsible for emitting about 100–200 kg of CO₂.[\[137\]](#)[\[138\]](#) Every year more than 10 billion tonnes of concrete are used worldwide.[\[138\]](#) In the coming years, large quantities of concrete will continue to be used, and the mitigation of CO₂ emissions from the sector will be even more critical.

Concrete is used to create hard surfaces that contribute to **surface runoff**, which can cause heavy soil erosion, water pollution, and flooding, but conversely can be used to divert, dam, and control flooding. **Concrete dust** released by building **demolition** and natural disasters can be a major source of dangerous **air pollution**. Concrete is a contributor to the **urban heat island** effect, though less so than **asphalt**.

Climate change mitigation

[edit]

Reducing the cement clinker content might have positive effects on the environmental life-cycle assessment of concrete. Some research work on reducing the cement clinker content in concrete has already been carried out. However, there exist different research strategies. Often replacement of some clinker for large amounts of slag or fly ash was investigated based on conventional concrete technology. This could lead to a waste of scarce raw materials such as slag and fly ash. The aim of other research activities is the efficient use of cement and reactive materials like slag and fly ash in concrete based on a modified mix design approach.[\[139\]](#)

The embodied carbon of a precast concrete facade can be reduced by 50% when using the presented fiber reinforced high performance concrete in place of typical reinforced concrete cladding.[\[140\]](#) Studies have been conducted about commercialization of low-carbon concretes. **Life cycle assessment** (LCA) of low-carbon concrete was investigated according to the ground granulated blast-furnace slag (GGBS) and fly ash (FA) replacement ratios. Global warming potential (GWP) of GGBS decreased by 1.1 kg CO₂ eq/m³, while FA decreased by 17.3 kg CO₂ eq/m³ when the mineral admixture replacement ratio was increased by 10%. This study also compared the compressive strength properties of binary blended low-carbon concrete according to the replacement ratios, and the applicable range of mixing proportions was derived.[\[141\]](#)

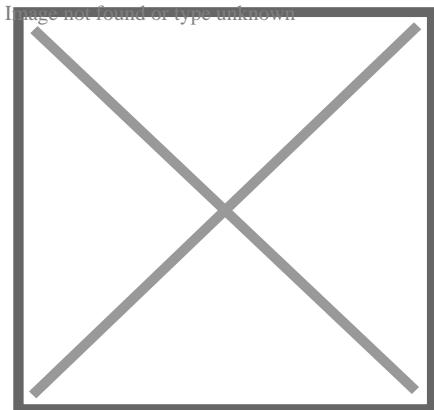
Climate change adaptation

[edit]

High-performance building materials will be particularly important for enhancing resilience, including for flood defenses and critical-infrastructure protection.[\[142\]](#) Risks to infrastructure and cities posed by extreme weather events are especially serious for those places exposed to flood and hurricane damage, but also where residents need protection from extreme summer temperatures. Traditional concrete can come under strain when exposed to humidity and higher concentrations of atmospheric CO₂. While concrete is likely to remain important in applications where the environment is challenging, novel, smarter and more adaptable materials are also needed.[\[138\]](#)[\[143\]](#)

End-of-life: degradation and waste

[edit]



The [Tunkhannock Viaduct](#) in northeastern Pennsylvania opened in 1915 and is still in regular use today

This paragraph is an excerpt from [Concrete degradation](#).[edit]

[Concrete degradation](#) may have many different causes. Concrete is mostly damaged by the [corrosion of reinforcement bars](#) due to the [carbonatation](#) of hardened [cement](#) paste or chloride attack under wet conditions. Chemical damage is caused by the formation of expansive products produced by chemical reactions (from [carbonatation](#), chlorides, sulfates and distillate water), by aggressive chemical species present in [groundwater](#) and [seawater](#) (chlorides, sulfates, magnesium ions), or by microorganisms ([bacteria](#), [fungi](#)...) Other damaging processes can also involve calcium leaching by water infiltration, physical phenomena initiating cracks formation and propagation, fire or radiant heat, aggregate expansion, sea water effects, leaching, and erosion by fast-flowing water.[\[144\]](#)

Recycling

[edit]

This paragraph is an excerpt from [Concrete recycling](#).[edit]

[Concrete recycling](#) is the use of rubble from demolished concrete structures. [Recycling](#) is cheaper and more ecological than trucking rubble to a [landfill](#).[\[145\]](#) Crushed rubble can be used for road gravel, [revetments](#), retaining walls, landscaping gravel, or raw material for new concrete. Large pieces can be used as bricks or slabs, or incorporated with new concrete into structures, a material called urbanite.[\[146\]\[147\]](#)

There have been concerns about the recycling of painted concrete due to possible lead content. Studies have indicated that recycled concrete exhibits lower strength and durability compared to concrete produced using natural aggregates.[\[148\]\[149\]\[150\]\[151\]](#) This deficiency can be addressed by incorporating supplementary materials such as fly ash into

the mixture.[152]

World records

[edit]

The world record for the largest concrete pour in a single project is the [Three Gorges Dam](#) in Hubei Province, China by the Three Gorges Corporation. The amount of concrete used in the construction of the dam is estimated at 16 million cubic meters over 17 years. The previous record was 12.3 million cubic meters held by [Itaipu hydropower station](#) in Brazil.[153][154][155]

The world record for concrete pumping was set on 7 August 2009 during the construction of the [Parbati Hydroelectric Project](#), near the village of Suind, [Himachal Pradesh](#), India, when the concrete mix was pumped through a vertical height of 715 m (2,346 ft).[156][157]

The [Polavaram dam](#) works in [Andhra Pradesh](#) on 6 January 2019 entered the [Guinness World Records](#) by pouring 32,100 cubic metres of concrete in 24 hours.[158] The world record for the largest continuously poured concrete raft was achieved in August 2007 in Abu Dhabi by contracting firm Al Habtoor-CCC Joint Venture and the concrete supplier is Unibeton Ready Mix.[159][160] The pour (a part of the foundation for the Abu Dhabi's [Landmark Tower](#)) was 16,000 cubic meters of concrete poured within a two-day period.[161] The previous record, 13,200 cubic meters poured in 54 hours despite a severe tropical storm requiring the site to be covered with [tarpaulins](#) to allow work to continue, was achieved in 1992 by joint Japanese and South Korean consortiums [Hazama Corporation](#) and the [Samsung C&T Corporation](#) for the construction of the [Petronas Towers](#) in Kuala Lumpur, Malaysia.[162]

The world record for largest continuously poured concrete floor was completed 8 November 1997, in [Louisville](#), Kentucky by design-build firm EXXCEL Project Management. The monolithic placement consisted of 225,000 square feet ($20,900 \text{ m}^2$) of concrete placed in 30 hours, finished to a flatness tolerance of F_F 54.60 and a levelness tolerance of F_L 43.83. This surpassed the previous record by 50% in total volume and 7.5% in total area.[163][164]

The record for the largest continuously placed underwater concrete pour was completed 18 October 2010, in New Orleans, Louisiana by contractor C. J. Mahan Construction Company, LLC of Grove City, Ohio. The placement consisted of 10,251 cubic yards of concrete placed in 58.5 hours using two concrete pumps and two dedicated concrete batch plants. Upon curing, this placement allows the 50,180-square-foot ($4,662 \text{ m}^2$) cofferdam to be dewatered approximately 26 feet (7.9 m) below sea level to allow the construction of the [Inner Harbor Navigation Canal Sill & Monolith Project](#) to be completed in the dry.[165]

Art

[\[edit\]](#)

Concrete is used as an artistic medium.^{[[citation needed](#)]} Its appearance is also imitated in other media: for example Congolese artist [Sardoine Mia](#) creates canvases that look like concrete surfaces.^[166]

See also

[\[edit\]](#)

- [Concrete leveling](#) – Process to level concrete by levelling its underlying foundation
- [Concrete mixer](#) – Device that combines cement, aggregate, and water to form concrete
- [Concrete masonry unit](#) – Standard-sized block used in construction
- [Concrete plant](#) – Equipment that combines various ingredients to form concrete
- [Eurocode 2: Design of concrete structures](#)
- [Heavy metals](#) – Loosely defined subset of elements that exhibit metallic properties
- [Hempcrete](#) – Biocomposite material used for construction and insulation
- [Particulates](#) – Microscopic solid or liquid matter suspended in the Earth's atmosphere
- [Schmidt hammer](#) – Type of measuring instrument
- [Syncrete](#) – Synthetic form of concrete
- [Thermal integrity profiling](#) – Method used to test concrete

References

[\[edit\]](#)

1. ^ Gagg, Colin R. (May 2014). "Cement and concrete as an engineering material: An historic appraisal and case study analysis". *Engineering Failure Analysis*. **40**: 114–140. doi:[10.1016/j.engfailanal.2014.02.004](https://doi.org/10.1016/j.engfailanal.2014.02.004).
2. ^ Crow, James Mitchell (March 2008). "[The concrete conundrum](#)" (PDF). *Chemistry World*: 62–66. Archived (PDF) from the original on 9 October 2022.
3. ^ "[Cement Statistics and Information](#)". USGS.gov. United States Geological Survey. Retrieved 21 March 2025.
4. ^ "[Scientific Principles](#)". matse1.matse.illinois.edu. Retrieved 24 May 2023.
5. ^ Li, Zongjin (2011). Advanced concrete technology. John Wiley & Sons. ISBN 978-0-470-90243-1.
6. ^ Industrial Resources Council (2008). "[Portland Cement Concrete](#)". www.industrialresourcecouncil.org. Retrieved 15 June 2018.
7. ^ National Highway Institute. "[Portland Cement Concrete Materials](#)" (PDF). Federal Highway Administration. Archived (PDF) from the original on 9 October 2022.
8. ^ Limbachiya, Mukesh C.; Kew, Hsein Y. (3 September 2008). *Excellence in Concrete Construction through Innovation: Proceedings of the conference held at the Kingston University, United Kingdom, 9 - 10 September 2008*. CRC Press. p. 115. ISBN 978-0-

203-88344-0.

9. ^ Allen, Edward; Iano, Joseph (2013). *Fundamentals of building construction: materials and methods* (Sixth ed.). Hoboken: John Wiley & Sons. p. 314. ISBN 978-1-118-42086-7. OCLC 835621943.
10. ^ "concretus". Latin Lookup. Archived from *the original* on 12 May 2013. Retrieved 1 October 2012.
11. ^ Heinrich Schliemann; Wilhelm Dörpfeld; Felix Adler (1885). *Tiryns: The Prehistoric Palace of the Kings of Tiryns, the Results of the Latest Excavations*. New York: Charles Scribner's Sons. pp. 190, 203–204, 215.
12. ^ Sparavigna, Amelia Carolina (2011). "Ancient concrete works". arXiv:1110.5230 [physics.pop-ph].
13. ^ Jacobsen T and Lloyd S, (1935) "Sennacherib's Aqueduct at Jerwan," *Oriental Institute Publications* 24, Chicago University Press
14. ^ Stella L. Marusin (1 January 1996). "Ancient Concrete Structures". *Concrete International*. 18 (1): 56–58.
15. ^ a b Gromicko, Nick; Shepard, Kenton (2016). "The History of Concrete". International Association of Certified Home Inspectors, Inc. Retrieved 27 December 2018.
16. ^ "Riddle solved: Why was Roman concrete so durable?". MIT News | Massachusetts Institute of Technology. 6 January 2023. Retrieved 25 October 2024.
17. ^ Moore, David (6 October 2014). "Roman Concrete Research". Romanconcrete.com. Archived from the original on 6 October 2014. Retrieved 13 August 2022.
18. ^ "The History of Concrete". Dept. of Materials Science and Engineering, University of Illinois, Urbana-Champaign. Archived from the original on 27 November 2012. Retrieved 8 January 2013.
19. ^ Chiu, Y. C. (2010). *An Introduction to the History of Project Management: From the Earliest Times to A.D. 1900*. Eburon Uitgeverij B.V. p. 50. ISBN 978-90-5972-437-2.
20. ^ Lancaster, Lynne (2005). *Concrete Vaulted Construction in Imperial Rome. Innovations in Context*. Cambridge University Press. ISBN 978-0-511-16068-4.
21. ^ Moore, David (1999). "The Pantheon". romanconcrete.com. Archived from the original on 1 October 2011. Retrieved 26 September 2011.
22. ^ D.S. Robertson (1969). *Greek and Roman Architecture*, Cambridge, p. 233
23. ^ Cowan, Henry J. (1977). *The master builders: a history of structural and environmental design from ancient Egypt to the nineteenth century*. New York: Wiley. ISBN 0-471-02740-5. OCLC 2896326.
24. ^ "CIVL 1101". www.ce.memphis.edu. Archived from *the original* on 27 February 2017.
25. ^ Robert Mark, Paul Hutchinson: "On the Structure of the Roman Pantheon", *Art Bulletin*, Vol. 68, No. 1 (1986), p. 26, fn. 5
26. ^ Kwan, Stephen; Larosa, Judith; Grutzeck, Michael W. (1995). "29Si and 27Al MASNMR Study of Stratlingite". *Journal of the American Ceramic Society*. 78 (7): 1921–1926. doi:10.1111/j.1151-2916.1995.tb08910.x.
27. ^ Jackson, Marie D.; Landis, Eric N.; Brune, Philip F.; Vitti, Massimo; Chen, Heng; Li, Qinfen; Kunz, Martin; Wenk, Hans-Rudolf; Monteiro, Paulo J. M.; Ingraffea, Anthony R. (30 December 2014). "Mechanical resilience and cementitious processes in Imperial

- Roman architectural mortar". PNAS. 111 (52): 18484–18489. Bibcode: 2014PNAS..11118484J. doi:10.1073/pnas.1417456111. PMC 4284584. PMID 25512521.*
28. ^ Marie D. Jackson; Sean R. Mulcahy; Heng Chen; Yao Li; Qinfei Li; Piergiulio Cappelletti; Hans-Rudolf Wenk (3 July 2017). "Phillipsite and Al-tobermorite mineral cements produced through low-temperature water-rock reactions in Roman marine concrete". American Mineralogist. 102 (7): 1435–1450. Bibcode:2017AmMin.102.1435J. doi:10.2138/am-2017-5993CCBY. S2CID 53452767.
29. ^ Knapton, Sarah (3 July 2017). "Secret of how Roman concrete survived tidal battering for 2,000 years revealed". The Telegraph. Archived from the original on 4 July 2017.
30. ^ Seymour, Linda M.; Maragh, Janille; Sabatini, Paolo; Di Tommaso, Michel; Weaver, James C.; Masic, Admir (6 January 2023). "Hot mixing: Mechanistic insights into the durability of ancient Roman concrete". Science Advances. 9 (1): eadd1602. Bibcode: 2023SciA...9D1602S. doi:10.1126/sciadv.add1602. PMC 9821858. PMID 36608117.
31. ^ Starr, Michelle (1 February 2024). "We Finally Know How Ancient Roman Concrete Was Able to Last Thousands of Years". ScienceAlert. Retrieved 1 February 2024.
32. ^ Peter Hewlett and Martin Liska (eds.), Lea's Chemistry of Cement and Concrete, 5th ed. (Butterworth-Heinemann, 2019), pp. 3–4.
33. ^ Rassia, Stamatina Th; Pardalos, Panos M. (15 August 2013). *Cities for Smart Environmental and Energy Futures: Impacts on Architecture and Technology*. Springer Science & Business Media. p. 58. ISBN 978-3-642-37661-0.
34. ^ Nick Gromicko & Kenton Shepard. "the History of Concrete". The International Association of Certified Home Inspectors (InterNACHI). Archived from the original on 15 January 2013. Retrieved 8 January 2013.
35. ^ Herring, Benjamin. "The Secrets of Roman Concrete" (PDF). Romanconcrete.com. Archived (PDF) from the original on 15 September 2012. Retrieved 1 October 2012.
36. ^ Courland, Robert (2011). *Concrete planet: the strange and fascinating story of the world's most common man-made material*. Amherst, NY: Prometheus Books. ISBN 978-1-61614-481-4. Archived from the original on 4 November 2015. Retrieved 28 August 2015.
37. ^ "The History of Concrete and Cement". ThoughtCo. 9 April 2012. Retrieved 13 August 2022.
38. ^ "Francois Coignet – French house builder". Retrieved 23 December 2016.
39. ^ « Château de Chazelet » [archive], notice no PA00097319, base Mérimée, ministère français de la Culture.
40. ^ Billington, David (1985). *The Tower and the Bridge*. Princeton: Princeton University Press. ISBN 0-691-02393-X.
41. ^ "Concrete: Scientific Principles". matse1.matse.illinois.edu. Retrieved 6 October 2021.
42. ^ a b Askarian, Mahya; Fakhretaha Aval, Siavash; Josaghani, Alireza (22 January 2019). "A comprehensive experimental study on the performance of pumice powder in self-compacting concrete (SCC)". Journal of Sustainable Cement-Based Materials. 7 (6): 340–356. doi:10.1080/21650373.2018.1511486. S2CID 139554392.

43. ^ Melander, John M.; Farny, James A.; Isberner, Albert W. Jr. (2003). "*Portland Cement Plaster/Stucco Manual*" (PDF). Portland Cement Association. Archived (PDF) from the original on 12 April 2021. Retrieved 13 July 2021.
44. ^ Evelien Cochez; Wouter Nijs; Giorgio Simbolotti & Giancarlo Tosato. "*Cement Production*" (PDF). IEA ETSAP – Energy Technology Systems Analysis Programme. Archived from the original (PDF) on 24 January 2013. Retrieved 9 January 2013.
45. ^ Gibbons, Jack (7 January 2008). "*Measuring Water in Concrete*". Concrete Construction. Archived from the original on 11 May 2013. Retrieved 1 October 2012.
46. ^ "Chapter 9: Designing and Proportioning Normal Concrete Mixtures" (PDF). PCA manual. Portland Concrete Association. Archived (PDF) from the original on 26 May 2012. Retrieved 1 October 2012.
47. ^ a b "Cement hydration". Understanding Cement. Archived from the original on 17 October 2012. Retrieved 1 October 2012.
48. ^ Beaudoin, James; Odler, Ivan (2019). "Hydration, Setting and Hardening of Portland Cement". Lea's Chemistry of Cement and Concrete. pp. 157–250. doi:10.1016/B978-0-08-100773-0.00005-8. ISBN 978-0-08-100773-0.
49. ^ "The Effect of Aggregate Properties on Concrete". www.engr.psu.edu. Engr.psu.edu. 25 December 2012. Archived from the original on 25 December 2012. Retrieved 13 August 2022.
50. ^ a b Veretennykov, Vitaliy I.; Yugov, Anatoliy M.; Dolmatov, Andriy O.; Bulavytskyi, Maksym S.; Kukharev, Dmytro I.; Bulavytskyi, Artem S. (2008). "Concrete Inhomogeneity of Vertical Cast-in-Place Elements in Skeleton-Type Buildings". AEI 2008 . pp. 1–10. doi:10.1061/41002(328)17. ISBN 978-0-7844-1002-8.
51. ^ Gerry Bye; Paul Livesey; Leslie Struble (2011). "Admixtures and Special Cements". Portland Cement: Third edition. doi:10.1680/pc.36116.185 (inactive 1 November 2024). ISBN 978-0-7277-3611-6.cite book: CS1 maint: DOI inactive as of November 2024 ([link](#))
52. ^ a b U.S. Federal Highway Administration (14 June 1999). "*Admixtures*". Archived from the original on 27 January 2007. Retrieved 25 January 2007.
53. ^ Cement Admixture Association. "*Admixture Types*". Archived from the original on 3 September 2011. Retrieved 25 December 2010.
54. ^ Hamakareem, Madeh Izat (14 November 2013). "*Effect of Air Entrainment on Concrete Strength*". The Constructor. Retrieved 13 November 2020.
55. ^ Bensted, John (1 January 1998), Hewlett, Peter C. (ed.), "*14 - Special Cements*", Lea's Chemistry of Cement and Concrete (Fourth Edition), Oxford: Butterworth-Heinemann, pp. 783–840, doi:10.1016/b978-075066256-7/50026-6, ISBN 978-0-7506-6256-7, retrieved 3 November 2024
56. ^ Holland, Terence C. (2005). "*Silica Fume User's Manual*" (PDF). Silica Fume Association and United States Department of Transportation Federal Highway Administration Technical Report FHWA-IF-05-016. Retrieved 31 October 2014.
57. ^ Kosmatka, S.; Kerkhoff, B.; Panerese, W. (2002). *Design and Control of Concrete Mixtures* (14 ed.). Portland Cement Association, Skokie, Illinois.
58. ^ Gamble, William. "*Cement, Mortar, and Concrete*". In Baumeister; Avallone; Baumeister (eds.). *Mark's Handbook for Mechanical Engineers* (Eighth ed.). McGraw

- Hill. Section 6, page 177.
- 59. ^ Kosmatka, S.H.; Panarese, W.C. (1988). *Design and Control of Concrete Mixtures*. Skokie, IL: *Portland Cement Association*. pp. 17, 42, 70, 184. ISBN 978-0-89312-087-0.
 - 60. ^ "Paving the way to greenhouse gas reductions". MIT News | Massachusetts Institute of Technology. 28 August 2011. Archived from the original on 31 October 2012. Retrieved 13 August 2022.
 - 61. ^ U.S. Federal Highway Administration (14 June 1999). "Fly Ash". Archived from the original on 21 June 2007. Retrieved 24 January 2007.
 - 62. ^ U.S. Federal Highway Administration. "Ground Granulated Blast-Furnace Slag". Archived from the original on 22 January 2007. Retrieved 24 January 2007.
 - 63. ^ U.S. Federal Highway Administration. "Silica Fume". Archived from the original on 22 January 2007. Retrieved 24 January 2007.
 - 64. ^ Mullapudi, Taraka Ravi Shankar; Gao, Di; Ayoub, Ashraf (September 2013). "Non-destructive evaluation of carbon nanofibre concrete". Magazine of Concrete Research. 65 (18): 1081–1091. doi:10.1680/macr.12.00187.
 - 65. ^ Tuan, Christopher; Yehia, Sherif (1 July 2004). "Evaluation of Electrically Conductive Concrete Containing Carbon Products for Deicing". ACI Materials Journal. 101 (4): 287–293.
 - 66. ^ Kloosterman, Karin (23 May 2023). "Tiny house built from diapers and concrete". Green Prophet. Retrieved 6 October 2024.
 - 67. ^ "Cold Joints". www.concrete.org.uk. The Concrete Society. Archived from the original on 4 March 2016. Retrieved 30 December 2015.
 - 68. ^ "Grades of Concrete with Proportion (Mix Ratio)". 26 March 2018.
 - 69. ^ "Concrete International". concrete.org. 1 November 1989. Archived from the original on 28 September 2007. Retrieved 13 August 2022.
 - 70. ^ "ACI 304R-00: Guide for Measuring, Mixing, Transporting, and Placing Concrete (Reapproved 2009)".
 - 71. ^ Vandenberg, Aileen; Wille, Kay (2 June 2019). "The Effects of Resonant Acoustic Mixing on the Microstructure of UHPC". International Interactive Symposium on Ultra-High Performance Concrete. 2 (1). doi:10.21838/uhpc.9636. ISSN 0000-0000.
 - 72. ^ Sarviel, Ed (1993). *Construction Estimating Reference Data*. Craftsman Book Company. p. 74. ISBN 978-0-934041-84-3.
 - 73. ^ Cook, Marlon Daniel; Ghaezzadah, Ashkan; Ley, M. Tyler (1 February 2018). "Impacts of Coarse-Aggregate Gradation on the Workability of Slip-Formed Concrete". Journal of Materials in Civil Engineering. 30 (2). doi:10.1061/(ASCE)MT.1943-5533.0002126.
 - 74. ^ "Aggregate in Concrete – the Concrete Network". Archived from the original on 2 February 2017. Retrieved 15 January 2017.
 - 75. ^ Ferrari, L.; Kaufmann, J.; Winnefeld, F.; Plank, J. (October 2011). "Multi-method approach to study influence of superplasticizers on cement suspensions". Cement and Concrete Research. 41 (10): 1058–1066. doi:10.1016/j.cemconres.2011.06.010.
 - 76. ^ "Curing Concrete" Peter C. Taylor CRC Press 2013. ISBN 978-0-415-77952-4. eBook ISBN 978-0-203-86613-9

91. ^ "Ground Water Recharging Through Pervious Concrete Pavement". ResearchGate. Retrieved 26 January 2021.
92. ^ Onuaguluchi, Obinna; Banthia, Nemkumar (1 April 2016). "Plant-based natural fibre reinforced cement composites: A review". *Cement and Concrete Composites*. **68**: 96–108. doi:10.1016/j.cemconcomp.2016.02.014. ISSN 0958-9465.
93. ^ Wu, Hansong; Shen, Aiqin; Cheng, Qianqian; Cai, Yanxia; Ren, Guiping; Pan, Hongmei; Deng, Shiyi (20 September 2023). "A review of recent developments in application of plant fibers as reinforcements in concrete". *Journal of Cleaner Production*. **419**: 138265. Bibcode:2023JCPro.41938265W. doi:10.1016/j.jclepro.2023.138265. ISSN 0959-6526.
94. ^ Yan, Libo; Kasal, Bohumil; Huang, Liang (1 May 2016). "A review of recent research on the use of cellulosic fibres, their fibre fabric reinforced cementitious, geo-polymer and polymer composites in civil engineering". *Composites Part B: Engineering*. **92**: 94–132. doi:10.1016/j.compositesb.2016.02.002. ISSN 1359-8368.
95. ^ Li, Juan; Kasal, Bohumil (July 2023). "Degradation Mechanism of the Wood-Cell Wall Surface in a Cement Environment Measured by Atomic Force Microscopy". *Journal of Materials in Civil Engineering*. **35** (7). doi:10.1061/JMCEE7.MTENG-14910. ISSN 0899-1561.
96. ^ Li, Juan; Kasal, Bohumil (10 August 2022). "The immediate and short-term degradation of the wood surface in a cement environment measured by AFM". *Materials and Structures*. **55** (7): 179. doi:10.1617/s11527-022-01988-8. ISSN 1871-6873.
97. ^ Li, Juan; Kasal, Bohumil (11 April 2022). "Effects of Thermal Aging on the Adhesion Forces of Biopolymers of Wood Cell Walls". *Biomacromolecules*. **23** (4): 1601–1609. doi:10.1021/acs.biomac.1c01397. ISSN 1525-7797. PMC 9006222. PMID 35303409.
98. ^ Li, Juan; Bohumil, Kasal (5 February 2021). "Repeatability of Adhesion Force Measurement on Wood Longitudinal Cut Cell Wall Using Atomic Force Microscopy". *Wood and Fiber Science*. **53** (1): 3–16. doi:10.22382/wfs-2021-02. ISSN 0735-6161.
99. ^ Lavars, Nick (10 June 2021). "Stanford's low-carbon cement swaps limestone for volcanic rock". *New Atlas*. Archived from the original on 10 June 2021. Retrieved 11 June 2021.
100. ^ Celik, K.; Jackson, M.D.; Mancio, M.; Meral, C.; Emwas, A.-H.; Mehta, P.K.; Monteiro, P.J.M. (January 2014). "High-volume natural volcanic pozzolan and limestone powder as partial replacements for portland cement in self-compacting and sustainable concrete". *Cement and Concrete Composites*. **45**: 136–147. doi:10.1016/j.cemconcomp.2013.09.003. hdl:11511/37244. S2CID 138740924.
101. ^ **a b c** Lemougna, Patrick N.; Wang, Kai-tuo; Tang, Qing; Nzeukou, A.N.; Billong, N.; Melo, U. Chinje; Cui, Xue-min (October 2018). "Review on the use of volcanic ashes for engineering applications". *Resources, Conservation and Recycling*. **137**: 177–190. Bibcode:2018RCR...137..177L. doi:10.1016/j.resconrec.2018.05.031. S2CID 117442866
102. ^ Brown, R.J.; Calder, E.S. (2005). "Pyroclastics". *Encyclopedia of Geology*. pp. 386–397. doi:10.1016/b0-12-369396-9/00153-2. ISBN 978-0-12-369396-9.

103. ^ Izzo, Francesco; Arizzi, Anna; Cappelletti, Piergiulio; Cultrone, Giuseppe; De Bonis, Alberto; Germinario, Chiara; Graziano, Sossio Fabio; Grifa, Celestino; Guarino, Vincenza; Mercurio, Mariano; Morra, Vincenzo; Langella, Alessio (August 2016). "The art of building in the Roman period (89 B.C. – 79 A.D.): Mortars, plasters and mosaic floors from ancient Stabiae (Naples, Italy)". *Construction and Building Materials*. **117**: 129–143. doi:10.1016/j.conbuildmat.2016.04.101.
104. ^ "MASUKO light concrete". Archived from the original on 15 November 2020. Retrieved 13 November 2020.
105. ^ "Relation Between Compressive and Tensile Strength of Concrete". Archived from the original on 6 January 2019. Retrieved 6 January 2019.
106. ^ "Structural lightweight concrete" (PDF). Concrete Construction. The Aberdeen Group. March 1981. Archived from the original (PDF) on 11 May 2013.
107. ^ "Ordering Concrete by PSI". American Concrete. Archived from the original on 11 May 2013. Retrieved 10 January 2013.
108. ^ a b Henry G. Russel, PE. "Why Use High Performance Concrete?" (PDF). Technical Talk. Archived (PDF) from the original on 15 May 2013. Retrieved 10 January 2013.
109. ^ "Concrete in Practice: What, Why, and How?" (PDF). NRMCA-National Ready Mixed Concrete Association. Archived (PDF) from the original on 4 August 2012. Retrieved 10 January 2013.
110. ^ Ritchie, Hannah; Roser, Max; Rosado, Pablo (11 May 2020). "CO₂ Emissions from Cement Production and Greenhouse Gas Emissions". Our World in Data – via ourworldindata.org.
111. ^ "Making Concrete Change: Innovation in Low-carbon Cement and Concrete". Chatham House. 13 June 2018. Archived from the original on 19 December 2018. Retrieved 17 December 2018.
112. ^ Rubenstein, Madeleine (9 May 2012). "Emissions from the Cement Industry". State of the Planet. Earth Institute, Columbia University. Archived from the original on 22 December 2016. Retrieved 13 December 2016.
113. ^ "Concrete and Embodied Energy – Can using concrete be carbon neutral". 22 February 2013. Archived from the original on 16 January 2017. Retrieved 15 January 2017.
114. ^ Gajda, John (2001). "Energy Use of Single-Family Houses with Various Exterior Walls" (PDF). Archived (PDF) from the original on 9 October 2022.
115. ^ Green Building with Concrete. Taylor & Francis Group. 2015. ISBN 978-1-4987-0411-3.[page needed]
116. ^ "Features and Usage of Foam Concrete". Archived from the original on 29 November 2012.
117. ^ "Unreinforced Masonry Buildings and Earthquakes: Developing Successful Risk Reduction Programs FEMA P-774". Archived from the original on 12 September 2011.
118. ^ Simsir, C.C.; Jain, A.; Hart, G.C.; Levy, M.P. (12–17 October 2008). *Seismic Retrofit Design Of Historic Century-Old School Buildings In Istanbul, Turkey* (PDF). 14th World Conference on Earthquake Engineering. Archived from the original (PDF) on 11 January 2012.

119. ^ Nawy, Edward G. (2008). *Concrete Construction Engineering Handbook*. CRC Press. *ISBN 978-1-4200-0765-7*.
120. ^ Lomborg, Bjørn (2001). *The Skeptical Environmentalist: Measuring the Real State of the World*. Cambridge University Press. p. 138. *ISBN 978-0-521-80447-9*.
121. ^ "Minerals commodity summary – cement – 2007". US United States Geological Survey. 1 June 2007. *Archived from the original* on 13 December 2007. Retrieved 16 January 2008.
122. ^ Murray, Lorraine. "Christ the Redeemer (last updated 13 January 2014)". *Encyclopædia Britannica*. Retrieved 5 November 2022.
123. ^ a b "Reinforced concrete". www.designingbuildings.co.uk.
124. ^ a b c d Claisse, Peter A. (2016), "Composites", *Civil Engineering Materials*, Elsevier, pp. 431–435, doi:10.1016/b978-0-08-100275-9.00038-3, ISBN 978-0-08-100275-9, retrieved 5 October 2021
125. ^ a b Richardson, John (2003). "Precast concrete structural elements". *Advanced Concrete Technology*. pp. 3–46. doi:10.1016/B978-075065686-3/50307-4. ISBN 978-0-7506-5686-3.
126. ^ a b "Mass Concret" (PDF). Archived from the original (PDF) on 27 September 2011.
127. ^ Sadowski, Józef et al.; Mathia, Thomas (2016). "Multi-scale Metrology of Concrete Surface Morphology: Fundamentals and specificity". *Construction and Building Materials*. 113: 613–621. doi:10.1016/j.conbuildmat.2016.03.099.
128. ^ "Winter is Coming! Precautions for Cold Weather Concreting". FPrimeC Solutions. 14 November 2016. *Archived from the original* on 13 January 2017. Retrieved 11 January 2017.
129. ^ "306R-16 Guide to Cold Weather Concreting". Archived from the original on 15 September 2017.
130. ^ a b Larn, Richard; Whistler, Rex (1993). "17 – Underwater concreting". *Commercial Diving Manual* (3rd ed.). Newton Abbott, UK: David and Charles. pp. 297–308. ISBN 0-7153-0100-4.
131. ^ "Prefilled lined underwater hand-placed bagwork product datasheet (PDF)". www.soluform.co.uk (Report). Soluform. Retrieved 8 September 2024.
132. ^ "Mapping of Excess Fuel Consumption". Archived from the original on 2 January 2015.
133. ^ Paul, Andrew (17 September 2024). "Bone-like, hollow concrete design makes it 5.6 times stronger". Popular Science. Retrieved 11 October 2024.
134. ^ Akerman, Patrick; Cazzola, Pierpaolo; Christiansen, Emma Skov; Heusden, Renée Van; Iperen, Joanna Kolomanska-van; Christensen, Johannah; Crone, Kilian; Dawe, Keith; Smedt, Guillaume De; Keynes, Alex; Laporte, Anaïs; Gonsolin, Florie; Mensink, Marko; Hebebrand, Charlotte; Hoenig, Volker; Malins, Chris; Neuenhahn, Thomas; Pyc, Ireneusz; Purvis, Andrew; Saygin, Deger; Xiao, Carol; Yang, Yufeng (1 September 2020). "Reaching Zero with Renewables".
135. ^ "Leading the way to carbon neutrality" (PDF). HeidelbergCement. 24 September 2020. *Archived* (PDF) from the original on 9 October 2022.

136. ^ "Cement Clinker Calcination in Cement Production Process". AGICO Cement Plant Supplier. 4 April 2019.

137. ^ "Carbon footprint" (PDF). Portland Cement Association. Archived (PDF) from the original on 9 October 2022.

138. ^ a b c Lehne, Johanna; Preston, Felix (13 June 2018). "Making Concrete Change: Innovation in Low-carbon Cement and Concrete".

139. ^ Proske, Tilo; Hainer, Stefan; Rezvani, Moien; Graubner, Carl-Alexander (September 2013). "Eco-friendly concretes with reduced water and cement contents – Mix design principles and laboratory tests". *Cement and Concrete Research*. **51**: 38–46. doi:10.1016/j.cemconres.2013.04.011.

140. ^ O'Hegarty, Richard; Kinnane, Oliver; Newell, John; West, Roger (November 2021). "High performance, low carbon concrete for building cladding applications". *Journal of Building Engineering*. **43**: 102566. doi:10.1016/j.jobe.2021.102566.

141. ^ Lee, Jaehyun; Lee, Taegyu; Jeong, Jaewook; Jeong, Jaemin (January 2021). "Sustainability and performance assessment of binary blended low-carbon concrete using supplementary cementitious materials". *Journal of Cleaner Production*. **280**: 124373. Bibcode:2021JCPro.28024373L. doi:10.1016/j.jclepro.2020.124373. S2CID 224849505.

142. ^ Sabry, Fouad (17 January 2022). *Translucent Concrete: How-to see-through walls? Using nano optics and mixing fine concrete and optical fibers for illumination during day and night time*. One Billion Knowledgeable.

143. ^ Mehta, P. Kumar (1 February 2009). "Global Concrete Industry Sustainability". *Concrete International*. **31** (2): 45–48.

144. ^ Luis Emilio Rendon Diaz Miron; Dessi A. Koleva (2017). *Concrete Durability: Cementitious Materials and Reinforced Concrete Properties, Behavior and Corrosion Resistance*. Springer. pp. 2–. ISBN 978-3319554631.

145. ^ "Home". ConcreteRecycling.org. Archived from the original on 12 April 2010. Retrieved 5 April 2010.

146. ^ "Urbanite - Reusing Old Concrete - The Concrete Network". ConcreteNetwork.com. Retrieved 24 May 2020.

147. ^ "Urbanite Construction". www.ecodesignarchitects.co.za. Archived from the original on 7 May 2021. Retrieved 24 May 2020.

148. ^ Abdo, Ayman; El-Zohairy, Ayman; Alashker, Yasser; Badran, Mohamed Abd El-Aziz; Ahmed, Sayed (1 January 2024). "Effect of Treated/Untreated Recycled Aggregate Concrete: Structural Behavior of RC Beams". *Sustainability*. **16** (10): 4039. Bibcode:2024Sust...16.4039A. doi:10.3390/su16104039. ISSN 2071-1050.

149. ^ "Khoan CÁfÆ'Ãtâ€™Ãfâ€šÃ,ÃfÆ'Ã¢,¬Ã;Ãfâ€šÃ,Ã°ÃfÆ'Ã¢,¬Ã;Ãfâ€šÃ,Ã't Bé TÔng". Retrieved 25 October 2024.

150. ^ Abdelfatah, Akmal S.; Tabsh, Sami W. (2011). "Review of Research on and Implementation of Recycled Concrete Aggregate in the GCC". *Advances in Civil Engineering*. **2011**: 1–6. doi:10.1155/2011/567924. ISSN 1687-8086.

151. ^ Lu, Linfeng (July 2024). "Optimal Replacement Ratio of Recycled Concrete Aggregate Balancing Mechanical Performance with Sustainability: A Review". *Buildings*. **14** (7):

2204. doi:[10.3390/buildings14072204](https://doi.org/10.3390/buildings14072204). ISSN 2075-5309.
152. ^ Rao, Akash; Jha, Kumar N.; Misra, Sudhir (1 March 2007). "Use of aggregates from recycled construction and demolition waste in concrete". *Resources, Conservation and Recycling*. **50** (1): 71–81. Bibcode:2007RCR....50...71R. doi:[10.1016/j.resconrec.2006.05.010](https://doi.org/10.1016/j.resconrec.2006.05.010). ISSN 0921-3449.
153. ^ "Itaipu Web-site". 2 January 2012. Archived from the original on 9 February 2012. Retrieved 2 January 2012.
154. ^ Sources, Other News (14 July 2009). "China's Three Gorges Dam, by the Numbers". Probe International. Archived from the original on 29 March 2017. Retrieved 13 August 2022.
155. ^ "Concrete Pouring of Three Gorges Project Sets World Record". People's Daily. 4 January 2001. Archived from the original on 27 May 2010. Retrieved 24 August 2009.
156. ^ "Concrete Pumping to 715 m Vertical – A New World Record Parbati Hydroelectric Project Inclined Pressure Shaft Himachal Pradesh – A case Study". The Masterbuilder. Archived from the original on 21 July 2011. Retrieved 21 October 2010.
157. ^ "SCHWING Stetter Launches New Truck mounted Concrete Pump S-36". NBM&CW (New Building Materials and Construction World). October 2009. Archived from the original on 14 July 2011. Retrieved 21 October 2010.
158. ^ Janyala, Sreenivas (7 January 2019). "Andhra Pradesh: Polavaram project enters Guinness Book of World Record for concrete pouring". The India Express. Retrieved 7 January 2020.
159. ^ "Concrete Supplier for Landmark Tower". Construction Week Online. 19 April 2011. Archived from the original on 15 May 2013.
160. ^ "The world record Concrete Supplier for Landmark Tower Unibeton Ready Mix". Archived from the original on 24 November 2012.
161. ^ "Abu Dhabi – Landmark Tower has a record-breaking pour" (PDF). Al Habtoor Engineering. September–October 2007. p. 7. Archived from the original (PDF) on 8 March 2011.
162. ^ National Geographic Channel International / Caroline Anstey (2005), Megastructures: Petronas Twin Towers
163. ^ "Continuous cast: Exxcel Contract Management oversees record concrete pour". concreteproducts.com. 1 March 1998. Archived from the original on 26 May 2010. Retrieved 25 August 2009.
164. ^ Exxcel Project Management – Design Build, General Contractors Archived 28 August 2009 at the Wayback Machine. Exxcel.com. Retrieved 19 February 2013.
165. ^ "Contractors Prepare to Set Gates to Close New Orleans Storm Surge Barrier". www.construction.com. 12 May 2011. Archived from the original on 13 January 2013. Retrieved 13 August 2022.
166. ^ "Distinction : Sardine Mia, lauréate du prix « Faces of peace and art » | Le Courrier de Kinshasa". www.lecourrierdekinshasa.com. Retrieved 16 February 2025.

Further reading

[edit]

- "The world's growing problem with concrete, the world's most destructive material" (Video). BBC Reel. 6 March 2023.

External links

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- Advantage and Disadvantage of Concrete
- Dunning, Brian (4 January 2022). "Skeptoid #813: Why You Need to Care About Concrete". *Skeptoid*. Retrieved 14 May 2022.
- Getting Buried in Concrete to Explain How It Works on YouTube
- Release of ultrafine particles from three simulated building processes
- Concrete: The Quest for Greener Alternatives
- [v](#)
- [t](#)
- [e](#)

[Road hierarchy](#)

- Limited-access**
 - Bicycle highway
 - Freeway / Motorway
 - Dual carriageway / Divided highway / Expressway
 - Elevated highway

- By country**
 - Australia
 - Belgium
 - Brazil
 - Canada
 - China
 - Croatia
 - Czech Republic
 - Germany
 - Greece
 - Hong Kong
 - India
 - Ireland
 - Italy
 - Nepal
 - Pakistan
 - Poland
 - Portugal
 - Spain
 - Taiwan
 - United Kingdom
 - United States

- Main roads**
 - Arterial road
 - Collector road
 - County highway
 - Express–collector setup
 - Farm-to-market road
 - Highway
 - Link road
 - Two-lane expressway

- Types of road**
 - 2+1 road
 - 2+2 road
 - Parkway
 - Ring road
 - Trunk road
 - Highway systems by country

 - Alley
 - Avenue

Interchanges (grade-separated)

- Cloverleaf
- Diamond
- Free-flow
- Directional T
- Diverging diamond
- Parclo
- Raindrop
- Roundabout
- Single-point urban (SPUI)
- Stack
- Three-level diamond
- Trumpet

Road junctions

- 3-way junction
- Bowtie
- Box junction
- Channelization
- Continuous flow
- Hook turn
- Jughandle
- Michigan left
- Offset T-intersection
- Protected intersection
- Quadrant roadway
- Right-in/right-out (RIRO)
- Roundabout
- Seagull intersection
- Split intersection
- Superstreet
- Texas U-turn
- Turnaround

Intersections (at-grade)

- Asphalt concrete
- Bioasphalt
- Brick
- Chipseal
- Cobblestone
- Concrete
 - Reinforced concrete
- Corduroy
- Crocodile cracking
- Crushed stone
- Diamond grinding of pavement
- Dirt
- Full depth recycling
- Glassphalt
- Gravel
- Ice
- Macadam
- Pavement milling
- Permeable
- Plank
- Plastic
- Rubberized asphalt
- Sealcoat
- Sett
- Stamped asphalt
- Tarmac
- Texture

Surfaces

- Road safety factors**
 - Road and environment**
 - Aquaplaning
 - Avalanche
 - Black ice
 - Bleeding
 - Crosswind
 - Dead Man's Curve
 - Expansion joint
 - Fog
 - Ford
 - Hairpin turn
 - Level crossing
 - Manhole cover
 - Oil spill
 - Oversize load
 - Pothole
 - Road debris
 - Road slipperiness
 - Road train
 - Roadkill
 - Rockfall
 - Rut
 - Snow squall
 - Speed bump
 - Storm drain
 - Traffic light
 - Traffic sign
 - Washboarding
 - Washout
 - Whiteout
 - Human factors**
 - Driver's education
 - Driving under the influence
 - Drowsy driving
 - Road rage
 - Single-vehicle crash
 - Vehicles**
 - Airbag
 - Automotive safety
 - Crumple zone
 - Seat belt
 - Risk compensation (road transport)
 - Underride guard

- Barrier transfer machine
- Bike lane
- Climbing lane
- Complete streets
- Contraflow lane
- Contraflow lane reversal
- High-occupancy toll lane
- High-occupancy vehicle lane
- Lane
- Living street
- Managed lane
- Median / Central reservation
- Motorcycle lane
- Passing lane
- Pedestrian crossing
- Pedestrian zone
- Refuge island
- Reversible lane
- Road diet
- Road verge
- Runaway truck ramp
- Shared space
- Sidewalk / Pavement
- Shoulder
- Street-running railway
- Traffic calming
- Traffic directionality
- Traffic island
- Traffic lanes
- Traffic signal preemption
- Truck bypass
- Unused highway
- Wide outside lane
- Woonerf

Space and time allocation

- Bollard
 - Botts' dots
 - Cable barrier
 - Cat's eye (road)
 - Concrete step barrier
 - Constant-slope barrier
 - Curb
 - F-shape barrier
 - Guard rail
 - Jersey barrier
 - Kassel kerb
 - Noise barrier
 - Raised pavement marker
 - Road surface marking
 - Rumble strip
 - Traffic barrier
 - Traffic cone
- Demarcation**
- Bridge
 - Causeway
 - Overpass / Flyover
 - Underpass / Tunnel
- Structures**
- Pavement condition index
 - International roughness index
 - Present serviceability index
 - Pavement performance modeling
 - Granular base equivalency
- Performance indicators**
- Glossary of road transport terms
 - Road types by features
 - Template:Traffic signs
- v
- t
- e

Stonemasonry

- Ashlar
- Rustication
- Carving
- Dry stone
- Letter cutting
- Masonry
- Types**
 - Post-tensioned stone
 - Massive precut stone
 - Monumental
 - Rubble
 - Sculpture
 - Slipform
 - Snecked

- Materials**
- Artificial stone
 - Brick
 - Cast stone
 - Decorative stones
 - Dimension stone
 - Fieldstone
 - Flagstone
 - Gabion
 - Granite
 - Grout
 - Lime mortar
 - Limestone
 - Marble
 - Types
 - Mortar
 - Sandstone
 - List
 - Slate
 - Stone veneer

Tools	<ul style="list-style-type: none"> ○ Angle grinder ○ Bush hammer ○ Ceramic tile cutter ○ Chisel ○ Diamond blade ○ Lewis (lifting appliance) ○ Trowel ○ Non-explosive demolition agents ○ Plug and feather ○ Stonemason's hammer ○ Straightedge
Techniques	<ul style="list-style-type: none"> ○ Flaming ○ Flushwork ○ Knapping ○ Polygonal masonry ○ Repointing ○ Scabbling ○ Tuckpointing ○ Veneer ○ Brickwork <ul style="list-style-type: none"> ○ Wythe
Products	<ul style="list-style-type: none"> ○ Castle ○ Hardstone carving ○ Headstone (Footstone) ○ Mosaic ○ Sculpture ○ Stone wall ○ Machicolation
Organizations	<ul style="list-style-type: none"> ○ International Union of Bricklayers and Allied Craftworkers ○ Master of Work to the Crown of Scotland ○ Mason Contractors Association of America ○ Operative Plasterers' and Cement Masons' International Association ○ Worshipful Company of Masons

- o t
- o e

Concrete

- | | |
|--------------------|--|
| History | <ul style="list-style-type: none">o Ancient Roman architectureo Roman architectural revolutiono Roman concreteo Roman engineeringo Roman technology |
| Composition | <ul style="list-style-type: none">o Cement<ul style="list-style-type: none">o Calcium aluminateo Energetically modifiedo Portlando Rosendaleo Watero Water–cement ratioo Aggregateo Reinforcemento Fly asho Ground granulated blast-furnace slago Silica fumeo Metakaolin |
| Production | <ul style="list-style-type: none">o Planto Concrete mixero Volumetric mixero Reversing drum mixero Slump testo Flow table testo Curingo Concrete covero Cover metero Rebar |

- Construction**
 - Precast
 - Cast-in-place
 - Formwork
 - Climbing formwork
 - Slip forming
 - Screed
 - Power screed
 - Finisher
 - Grinder
 - Power trowel
 - Pump
 - Float
 - Sealer
 - Tremie

- Science**
 - Properties
 - Durability
 - Degradation
 - Environmental impact
 - Recycling
 - Segregation
 - Alkali–silica reaction

- AstroCrete
- Fiber-reinforced
- Filigree
- Foam
- Lunarcrete
- Mass
- Nanoconcrete
- Pervious
- Polished
- Polymer
- Prestressed
- Ready-mix
- Reinforced
- Roller-compacting
- Self-consolidating
- Self-leveling
- Sulfur
- Tabby
- Translucent
- Waste light
- Aerated
 - AAC
 - RAAC
- Slab
 - waffle
 - hollow-core
 - voided biaxial
 - slab on grade
- Concrete block
- Step barrier
- Roads
- Columns
- Structures

- American Concrete Institute
- Concrete Society
- Institution of Structural Engineers
- Organizations**
- Indian Concrete Institute
- Nanocem
- Portland Cement Association
- International Federation for Structural Concrete

- Eurocode 2
- Standards**
- EN 197-1
- EN 206-1
- EN 10080

- See also**
- Hempcrete

-  [Category:Concrete](#)

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- United States
- France
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- Japan
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- Other**
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About Rock N Block - Turf N Hardscapes

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Things To Do in Clark County

Photo

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Clark County Historical Museum

4.6 (147)

Driving Directions in Clark County

Driving Directions From Field 2 to

Driving Directions From Rock N Block - Turf N Hardscapes to

Driving Directions From Universal Turf Equipment to

Driving Directions From Rhino's Turf Equipment – A part of United Rentals to

Driving Directions From Festival Turf Las Vegas to

Driving Directions From Everything Turf Pros to

Driving Directions From Turf Trimmers Landscaping, Inc. to

Driving Directions From VS Turf Supply to

Driving Directions From Kellogg Zaher Soccer Complex to

Driving Directions From TURFIT LAS VEGAS to

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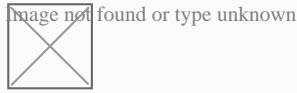
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Reviews for Rock N Block - Turf N Hardscapes



Terry lewis

(5)

Workers were great, no problem they did what was required, but the representative of your company mislead me on what was to be done, I showed pictures from a competitor landscaper, representative stated he could bet there , , . price, but since it wasn't in contract, I was left with uncomplicated backyard , working with owner at present, so he's been outstanding working on this situation, as amount of rock was way off and the owner did increase the amount substantially to finish the front yard. another landscaper under contract to finish the backyard. Would like to add a comment the manger/owner of Las Vegas yard n block stands behind his words and helped me tremendously on finishing up the backyard,



Josh Bodell

(5)

Eric and team did an amazing job. They worked with me for months while I got HOA approval for the project. Once they began working they were great, going over everything in detail and making sure things were perfect. This project included wall repair, stucco and paint repair, paver and turf installation. Extremely satisfied with this experience.

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Shana Shapiro

(5)

Chris, the design consultant, Dave the production manager, along with their install team Opulent were affordable, upfront with costs, efficient and professional. Attached are some before and after pictures. Highly recommend their services.

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Dawna OgleYohe

(5)

My initial contact was with Ray, whom did an excellent job giving me an estimate on what I wanted done in my small yard and walkway., the guys that came out and did the work were superior. They did an excellent job. I'm very pleased with this company. I will highly recommend them to family and friends, and I will be using them in the near future for other little projects.

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Things To Do in Clark County

[Photo](#)

Clark County Historical Museum

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Driving Directions From New horizon landscapes to

Driving Directions From Custom Touch Landscape to

Driving Directions From A and L Desert Landscapes Tree Company to

Driving Directions From Paradise Landscaping Las Vegas to

Driving Directions From Las Vegas Backyards to

Driving Directions From Delfino Maintenance & Landscaping Inc. to

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Driving Directions From Living Water Lawn & Garden to

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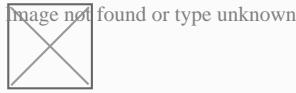
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Reviews for Rock N Block - Turf N Hardscapes



D. Lopez

(5)

We recently had a very positive experience with Rock N Block for our fence replacement. The entire process went smoothly and exceeded our expectations. Harvey and his team were incredibly professional and communicative throughout the project providing much-needed assurance and peace of mind. The crew was punctual and maintained a diligent and respectful attitude that made the experience pleasant. The crew finished the project ahead of schedule, and the quality of their work is impressive; our new wall looks great! We recommend Rock N Block for any fencing needs and look forward to working with them again. Thank you, Harvey and crew, for a job well done!



Terry lewis

(5)

Workers were great, no problem they did what was required, but the representative of your company mislead me on what was to be done, I showed pictures from a competitor landscaper, representative stated he could bet there , , . price, but since it wasn't in contract, I was left with uncomplicated backyard , working with owner at present, so he's been outstanding working on this situation, as amount of rock was way off and the owner did increase the amount substantially to finish the front yard. another landscaper under contract to finish the backyard. Would like to add a comment the manger/owner of Las Vegas yard n block stands behind his words and helped me tremendously on finishing up the backyard,



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Dawna OgleYohe

(5)

My initial contact was with Ray, whom did an excellent job giving me an estimate on what I wanted done in my small yard and walkway., the guys that came out and did the work were superior. They did an excellent job. I'm very pleased with this company. I will highly recommend them to family and friends, and I will be using them in the near future for other little projects.



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Shana Shapiro

(5)

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Josh Bodell

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Frequently Asked Questions

Does Rock N Block offer commercial artificial turf solutions?

Yes, they provide cost-effective and practical artificial turf solutions tailored for commercial properties.

Why should I hire a landscaping designer in Las Vegas?

A local landscaping designer brings specialized expertise in the region's unique climate and soil conditions. They'll recommend drought-tolerant plantings, efficient irrigation strategies, and hardscape solutions that handle desert heat. Designers also balance aesthetics and function—ensuring your yard is beautiful, water-wise, and easy to maintain. Many can help navigate homeowner association guidelines, building permits, or local rebate programs for lawn conversions. By collaborating with a professional, you avoid costly missteps like overwatering desert species or installing subpar rock without proper grading. In the end, a landscaping designer streamlines the entire process, crafting a cohesive, tailored landscape suited to Las Vegas living.

How do I keep my Las Vegas landscaping colorful year-round?

Although the desert climate can limit certain species, you can maintain color by selecting the right mix of blooms and foliage. Combine hardy flowering plants—like lantana, desert marigold, and penstemon—that produce vibrant hues in multiple seasons. Ornamental grasses can show interesting seed heads even as temperatures fluctuate. Succulents often boast colorful rosettes, and cacti yield eye-catching blooms in warmer months. Incorporate small shrubs known for extended flowering periods, such as Texas ranger, which sprouts purple blossoms after rain. Adding accent boulders or colored gravel boosts visual interest when flowers fade. Finally, consider nighttime landscape lighting to showcase silhouettes and subtle tints after dark.

How does a landscaping designer help manage HOA regulations in Las Vegas?

HOA rules can influence plant choices, hardscape styles, or yard features like fences and lighting. A knowledgeable landscaping designer understands these guidelines and ensures your plan meets all requirements, sparing you from fines or forced rework. They'll propose water-conscious plantings and rock scapes that align with HOA standards, such as limiting turf area or adhering to approved color palettes. Designers may submit the necessary documents or drawings to the HOA for official approval. By staying current on neighborhood regulations, they streamline the design phase, so you can achieve the look you want without clashing with community expectations.

Are financing options available for installations?

For information on financing options, it's best to contact Rock N Block directly through their website.

xeriscape Las Vegas

Landscaping Designer Las Vegas

Phone : 888 894 2486

City : Las Vegas

State : Nevada

Zip : 89108

Address : 3267 N Torrey Pines Dr

[Google Business Profile](#)

[Google Business Website](#)

Company Website : <https://rocknblocklandscape.com/artificial-turf/landscaping/>

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