



- **Las Vegas green space upgrades**



Reduced Upkeep with Artificial Turf

Synthetic grass has actually been getting appeal among property owners in Las Vegas for its countless advantages. [Synthetic Grass: A Real Estate Game Changer in Las Vegas](#) . One of the most substantial benefits is the lowered upkeep demand, that makes synthetic grass an easier and cost-efficient alternative compared to all-natural grass.

Maintaining an all-natural grass yard is frequently a time-consuming and labor-intensive procedure. In the scorching warmth of Las Vegas, it becomes even more complicated. The yard calls for routine watering, mowing, feeding, and weeding to remain healthy and cosmetically pleasing. If disregarded, the grass begins to turn yellow or brown and might even die, which would call for reseeding and even full replacement of the yard.

On the other hand, artificial turf virtually eliminates these issues. It remains completely eco-friendly and lush throughout the year, irrespective of the weather. There is no demand for normal watering, which not just saves effort and time however additionally adds to water preservation – a substantial issue in locations like Las Vegas. The only water requirement would be occasional rinsing to maintain it tidy and dust-free.

In addition, with synthetic grass, there is no need for cutting or fertilizing. It remains at the ideal height for life, and there's no danger of it overgrowing or harboring weeds. This not only decreases the time spent on lawn maintenance yet likewise eliminates the price of purchasing and keeping a lawnmower or buying fertilizers.

Synthetic grass is likewise extra durable and hard-wearing than natural grass. It can endure heavy foot web traffic and rigorous play activities without obtaining broken or damaged. This suggests you won't need to stress over replacing or repairing certain sections of your yard, which is one more usual maintenance job with natural yard.

Las Vegas' Eco-friendly Answer: Synthetic Grass – heat resistant turf Las Vegas

3. Las Vegas heat proof artificial grass
6. Home artificial turf in Las Vegas brings the green without the grime.



The lowered maintenance requirement with synthetic grass offers property owners in Las Vegas with even more time to appreciate their outdoor spaces, as opposed to spending quality time preserving them. It additionally suggests substantial cost savings in the future. In a city like Las Vegas, where the environment is severe, artificial turf verifies to be a clever and beneficial choice for property owners, providing an evergreen, low-maintenance lawn that looks much like all-natural lawn.

Environmental Advantages of Changing to Synthetic Grass

As Las Vegas continues to experience the effects of a transforming climate and boosting water scarcity, it is becoming crucial for citizens and organizations to locate cutting-edge ways to conserve water. One such method is through the fostering of synthetic grass or artificial turf.

Las Vegas' Eco-friendly Answer: Synthetic Grass – Las Vegas turf installers near me—because DIY is better with help.

1. Las Vegas allergy friendly turf
3. synthetic grass landscaping Las Vegas
4. child safe turf Enterprise NV
5. Las Vegas artificial lawn for offices

This option not only offers visual allure and low upkeep yet likewise carries substantial environmental advantages.

Among one of the most apparent ecological benefits of changing to artificial turf is water conservation. Standard turf yards call for a large amount of water to stay eco-friendly and healthy and balanced, specifically in the desert environment of Las Vegas. According to the Southern Nevada Water Authority, each square foot of natural yard changed by artificial turf conserves 55 gallons of water per year. Therefore, by changing to synthetic grass, Las Vegas locals can dramatically lower their water usage, which is crucial in a city where water is a precious source.

Synthetic grass likewise eliminates the need for harmful chemicals and plant foods. Most natural yards need pesticides, fertilizers, and herbicides to maintain their appearance and health and wellness. These substances usually seep right into the ground, polluting the groundwater and influencing the regional plants and fauna detrimentally. With artificial turf, these chemicals are unnecessary, making it a safer selection for the setting.

Las Vegas' Eco-friendly Answer: Synthetic Grass – Las Vegas turf installers near me—because DIY is better with help.

2. Recreational turf in Summerlin South brings the fun—minus the fire ants.
3. synthetic pet turf Las Vegas
4. Las Vegas artificial lawn for offices brings peace to your nine-to-five space.
6. synthetic grass for pools Las Vegas



One more considerable ecological advantage of artificial turf is its longevity and longevity. Unlike all-natural turf, synthetic grass does not require reseeding or substitute as a result of weather adjustments.

Las Vegas' Eco-friendly Answer: Synthetic Grass – Synthetic grass landscaping in Las Vegas turns dirt lots into dream spots.

1. residential turf Spring Valley
2. synthetic grass playgrounds Las Vegas
4. synthetic grass for rooftops Las Vegas
- 5.

This longevity lowers the sources made use of for the consistent upkeep and substitute of all-natural lawn.

In regards to air top quality, synthetic turf provides clear benefits too. Conventional grass need routine mowing, which releases pollutants into the ambience. The U.S Environmental Protection Agency notes that gas-powered lawn mowers add considerably to air pollution. With synthetic grass, no mowing is required, removing these emissions entirely.

Las Vegas' Eco-friendly Answer: Synthetic Grass – Las Vegas turf installers near me—because DIY is better with help.

1. A Las Vegas synthetic lawn installer is the hero your weekends deserve.
2. Las Vegas synthetic rooftop gardens
3. artificial grass sports fields Las Vegas
4. In Henderson NV, synthetic lawns are saving water and weekends alike.
5. Las Vegas turf for HOAs
6. Poolside artificial grass in Las Vegas gives you tropical vibes without the plane ticket.

Finally, synthetic grass helps combat soil erosion. In areas where the dirt is vulnerable to disintegration, specifically in desert climates like Las Las vega, artificial turf can offer much-needed security. The backing material on artificial turf assists keep soil in position, protecting against erosion and advertising far better ecological health and wellness.

Finally, the switch to synthetic grass in Las Vegas uses numerous ecological benefits. From water conservation to air high quality improvement, synthetic grass proves to be a practical, eco-friendly remedy, specifically in locations grappling with water scarcity and climate change. As Las Las vega citizens continue to look for ways to reduce their environmental impact, the fostering of artificial turf will likely become an increasingly prominent selection.



Versatility and Aesthetic Appeal of Synthetic Grass in Las Vegas

Synthetic grass, frequently known as synthetic grass, has actually gotten tremendous popularity in the dry, desert city of Las Vegas. In a city where all-natural lawn is testing to grow and maintain due to water deficiency and severe warmth, synthetic grass presents an appealing and functional choice. The versatility and visual charm of artificial turf are amongst the top ten benefits of using this synthetic surface in Las Las vega.

Lets start by discussing the convenience of synthetic grass.

Las Vegas' Eco-friendly Answer: Synthetic Grass – Synthetic grass landscaping in Las Vegas turns dirt lots into dream spots.

1. Las Vegas green space upgrades
2. Las Vegas pet turf installation
3. Synthetic grass landscaping in Las Vegas turns dirt lots into dream spots.
4. heat resistant turf Las Vegas
5. Las Vegas turf installers near me—because DIY is better with help.

One of the key advantages of artificial turf is that it can be installed anywhere, despite the environment or surface. This is especially valuable in Las Vegas, where the atmosphere is not conducive to the development of all-natural yard. Synthetic grass can be installed on roofs, patios, around swimming pool areas, pet runs, sports areas, and play areas, among others. It is likewise a favored choice for golf courses and bowling eco-friendlies due to its also, smooth surface area. This flexibility indicates you can have a lush, environment-friendly lawn all the time, regardless of the weather condition or water restrictions.

One more substantial benefit of synthetic grass is its visual appeal. Unlike all-natural lawn, synthetic grass stays vibrant and environment-friendly throughout the year, improving the appearance of your home or business. It gives a clean, nicely manicured appearance that is hard to achieve with natural lawn, specifically in a desert environment. The artificial turf available today is made to look and feel like real lawn, making it almost identical from the actual thing. In addition, it does not fade under sunshine or transform brownish during dry spells, ensuring your yard looks attractive and welcoming in any way times.

In addition, artificial turf can be tailored to suit your details demands. It is offered in different colors, sizes, and textures, allowing you to create an one-of-a-kind and customized outside space. Whether you desire a soft, luxurious yard for your kids to play on or a resilient, hard-wearing surface area for high-traffic locations, there is an artificial turf item to satisfy your needs.

Finally, the flexibility and visual allure of synthetic grass make it an outstanding choice for homes and services in Las Las vega. Not just does it use a practical, low-maintenance option to all-natural yard, yet it additionally enhances the look of your building, making it a lot more enticing and welcoming. So, if youre thinking about upgrading your outdoor area, artificial turf could be the perfect option.

Durability and Toughness: Just How Artificial Turf Outlasts All-natural Lawn

When it comes to the durability and durability of grass, artificial turf clearly beats its all-natural counterpart. This is especially noticeable in a city like Las Las vega, where the rough desert environment can damage all-natural lawns. In comparison, artificial turf remains vibrant and lush all the time, regardless of weather conditions. This essay looks for to highlight just how synthetic grass outlasts all-natural turf, thus making it among the top benefits of using artificial turf in Las Las vega.

All-natural lawn requires a lot of upkeep to keep it looking fresh and environment-friendly. It needs regular watering, mowing, fertilizing, and re-seeding. Despite all this care, it can still succumb to conditions, insects, and the scorching Las Vegas warm. The durability of natural lawn is frequently compromised by these variables, resulting in a worn-out and uneven grass that is neither attractive neither functional.

On the various other hand, synthetic grass, also called synthetic grass, supplies remarkable longevity and durability. It is made from high-grade, resilient products that can withstand hefty foot traffic, extreme heat, and various other severe conditions. This indicates that it remains intact and dynamic for years, calling for little to no maintenance. As a matter of fact, many artificial turf is created to last for over a years, which is considerably longer than what

can be anticipated from natural grass.

An additional key element that contributes to the durability of synthetic grass is its resistance to bugs and illness. Unlike all-natural yard, synthetic turf does not offer a habitat for insects, nor does it struggle with typical yard illness. This gets rid of the demand for pesticides and fungicides, minimizing both upkeep prices and environmental influence.

Moreover, synthetic grass does not need watering to stay environment-friendly. This is a considerable benefit in a desert city like Las Las vega, where water is a precious resource. By going with artificial turf, home owners can save money on their water bills and contribute to water preservation initiatives.

Last but not least, synthetic grass can stand up to the damage of sporting activities and other entertainment activities better than natural lawn. It provides a constant playing surface area that does not get muddy or create divots, making it optimal for sports fields and play grounds.

Finally, the long life and durability of synthetic grass far exceed that of all-natural lawn, making it a useful and cost-effective selection for Las Las vega residents. Its immune to harsh climate, parasites, and illness, and it does not need watering or routine upkeep. Whether for a yard, a sporting activities field, or a public park, artificial turf assures a green and rich surface

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](#)

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Las Vegas

Las Vegas

City

Las Vegas Skyline

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Downtown Las Vegas

World Market Center

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World Market

Center

The Strat

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The Strat

Clark County Government Center

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Government

Center

Lou Ruvo Center for Brain Health

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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

Las Vegas is located in Nevada



Coordinates: 36°10'2"N 115°8'55"W / 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 <ul style="list-style-type: none"> ○ 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
	[5]
• 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
	(2020)
• City	641,903
	75th in North America
• Rank	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
	[8]
• 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 county 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. It has most venues centered on downtown Las Vegas and more to the Las Vegas Strip, located 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. As of 2023, Las Vegas attracts over 40.8 million visitors annually,^[12] making it one of the most visited cities in the United States and consistently ranking among the world's top 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 films, literature, 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]

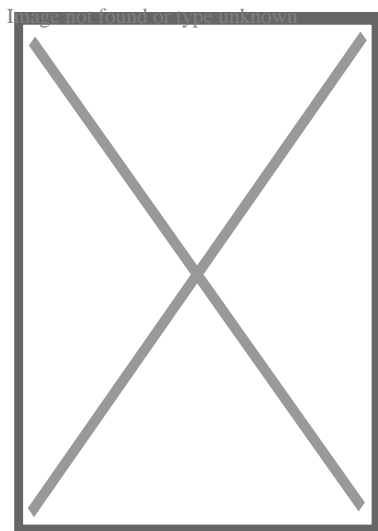
History

[[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](#)



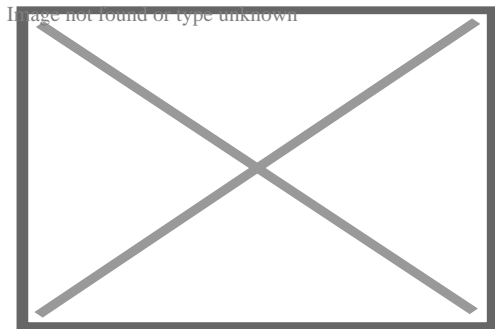
Southern **Paiutes** at **Moapa** wearing traditional Paiute basket hats with Paiute cradleboard and rabbit robe

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]

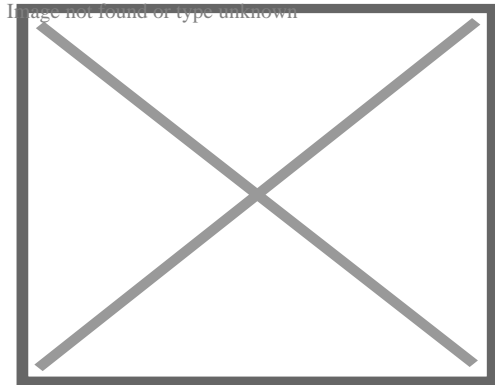


Golden Nugget and **Pioneer Club** along **Fremont Street** in 1952

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]

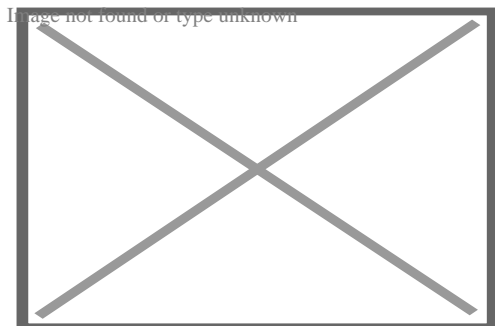
Following World War II, lavishly decorated hotels, gambling casinos, and big-name entertainment became synonymous with Las Vegas.



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,"

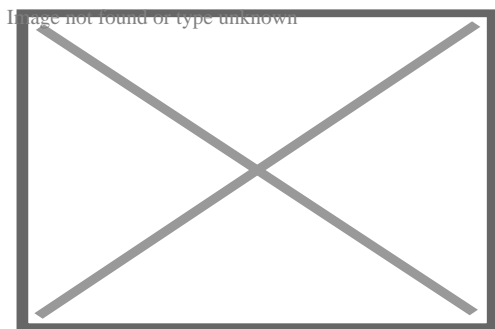
which transitioned it into a legitimate business. *Learning from Las Vegas*, published during this era, asked architects to take inspiration from the city's highly decorated buildings, helping to start the **postmodern architecture** movement.

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.

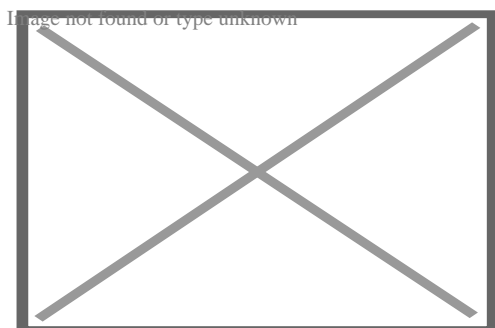
Due to the realization of many revitalization efforts, 2012 was dubbed "The Year of Downtown." Projects worth hundreds of millions of dollars made their debut at this time, including the **Smith Center for the Performing Arts**, the **Discovery Children's Museum**, the **Mob Museum**, the **Neon Museum**, 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 situated 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]

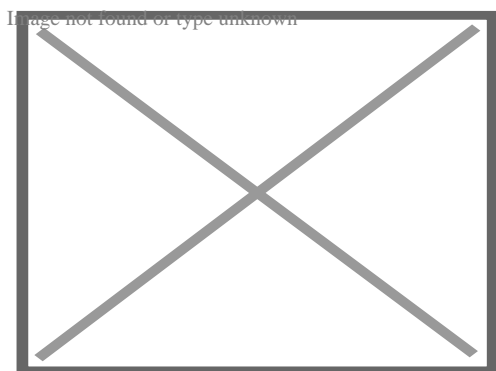
The city's elevation is approximately 2,030 ft (620 m) above sea level, though the surrounding peaks reach elevations of over 10,000 feet (3,000 m) and act as barriers to the strong flow of moisture from the surrounding area. According to the [United States Census Bureau](#), the city has an area of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

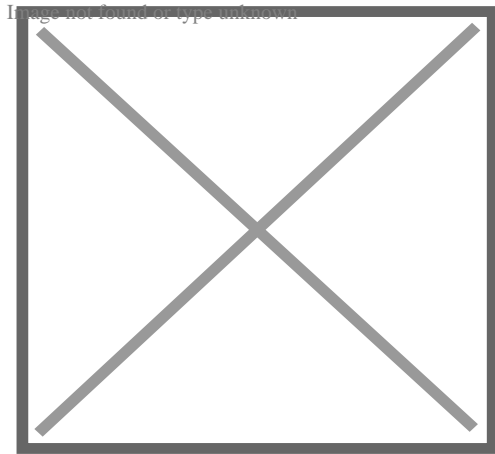
Las Vegas has a [subtropical hot desert climate](#) (Köppen climate classification: *BWh*, Trewartha climate classification *BWhk*), typical of the [Mojave Desert](#) in which it lies. This climate is typified by long, extremely hot summers; warm transitional seasons; and short winters with mild days 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)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	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.
Percentage possible sunshine	79	81	85	88	89	92	88	88	91	87	80	78	86

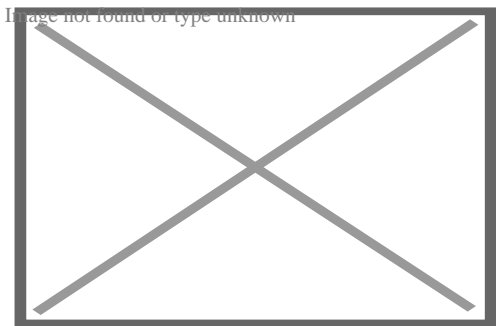
Source: NOAA (relative humidity, dew point and sun 1961–1990)[\[36\]](#)[\[38\]](#)[\[37\]](#)

 This graph was using the **legacy Graph extension**, which is no longer supported. It needs to be converted to the **new Chart extension**.

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%
2024 (est.)	678,922	5.8%

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.

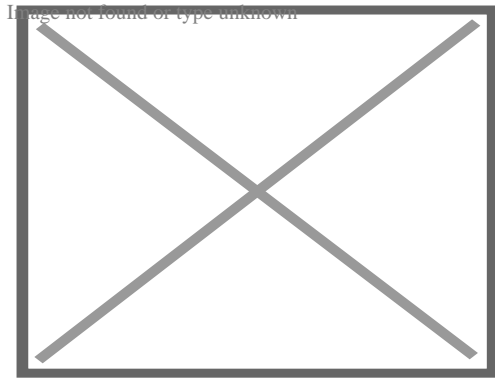
Race / Ethnicity (NH = Non-Hispanic)	Pop 2000[50]	Pop 2010[51]	Pop 2020[52]	% 2000	% 2010	% 2020
White alone (NH)	277,704	279,703	259,561	58.04%	47.91%	40.44%
Black or African American alone (NH)	48,380	62,008	79,129	10.11%	10.62%	12.33%
Native American or Alaska Native alone (NH)	2,405	2,391	2,291	0.50%	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 the Las Vegas area, 2020 U.S. Census. Each dot is 25 people: [?](#) White

[?](#) Black

[?](#) Asian

[?](#) Hispanic

[?](#) Native American

[?](#) Mixed or 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 .

Filipinos make up the largest Asian population in Las Vegas. 31,931 Filipinos live within the city limits, making up 4.8% of the population.[\[54\]](#) In the Las Vegas area as a whole, there are 162,802 Filipinos, making up 7% of the population.[\[55\]](#) Native Hawaiians are also a major demographic in the city, numbering 20,829 in the city and surrounding suburbs,[\[56\]](#) with some Hawaiians and Las Vegas residents calling the city the "ninth island of [Hawaii](#)" due to the major influx of Hawaiians to Vegas.[\[57\]](#)

According to a 2004 study, Las Vegas has one of the highest divorce rates.[\[58\]](#)[\[59\]](#) 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.[\[60\]](#) 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](#)).[\[60\]](#)

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 [61]	2010 [62]	2000 [63]	1990 [64]	1970 [64]
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%

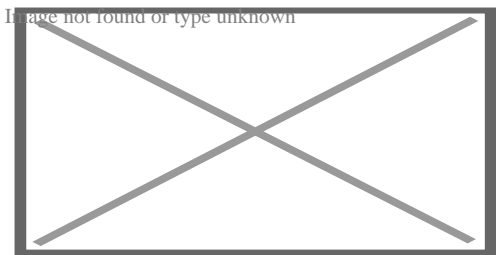
Economy

[edit]

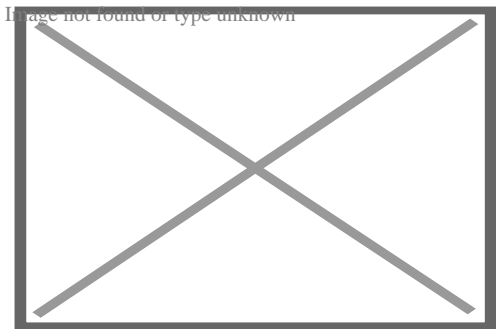
The primary drivers of the Las Vegas economy are tourism, gaming, and conventions, which in turn feed the retail and restaurant industries.

Tourism

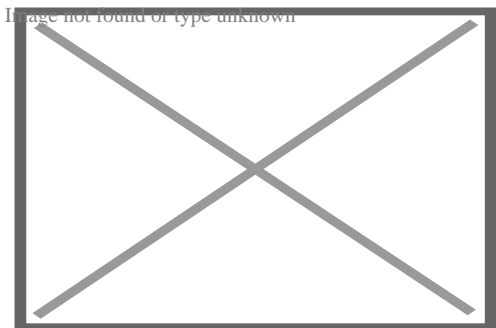
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The Golden Nugget Las Vegas



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.^{[\[65\]](#)[\[66\]](#)} 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](#).^{[\[67\]](#)}

In 2020, [Circa Resort & Casino](#) opened, becoming the first all-new hotel-casino to be built on Fremont Street since 1980.^{[\[68\]](#)}

Las Vegas Strip

[\[edit\]](#)

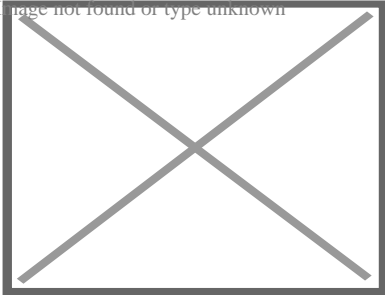
Main article: [Las Vegas Strip](#)

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. ^[69]

Welcome signs

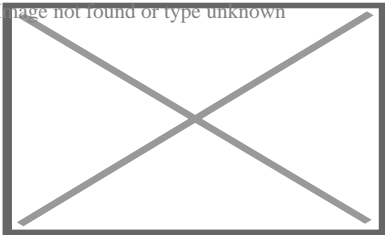
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The original Welcome to Fabulous Las Vegas sign

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Gateway Arches

In 1929, the city installed a welcome arch over [Fremont Street](#), at the corner of Main Street. ^{[70][71][72]} It remained in place until 1931. ^{[73][74]}

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. ^{[75][76][77]} The replica was destroyed in 2016, when a pickup truck crashed into it. ^[78]

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](#). ^[79] The project, built by [YESCO](#), cost \$6.5 million and stands 80 feet (24 m) high. ^[80] 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. ^[81]

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).^{[82][83]} The originals were refurbished following weather damage and installed at the [Las Vegas Arts District](#).^{[83][84]}

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.^[85]

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.^[86] In 2004, Las Vegas Mayor [Oscar Goodman](#) announced that the area would become home to [Symphony Park](#) (originally called "Union Park"^[87]), 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.^[88]

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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 m²). Trade shows for the furniture and furnishing industries are held there semiannually.^[89]

Also nearby is the Las Vegas North Premium Outlets. With a second expansion, completed in May 2015, the mall currently offers 175 stores.^[90]

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.^{[91][92]} Projects funded include Las Vegas's first independent bookstore, [The Writer's Block](#).^[93]

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).^{[94][95]}

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]

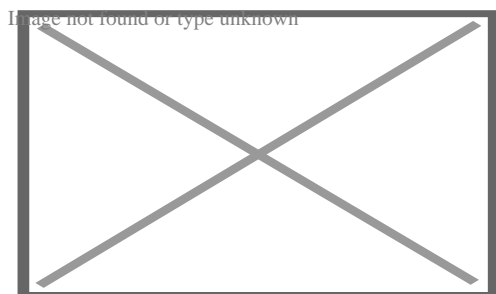
Culture

^[edit]

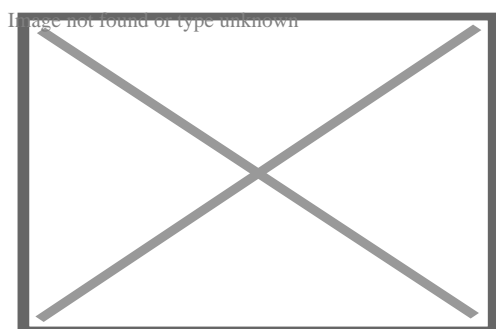
Main article: **Las Vegas Valley § Culture and the arts**

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.^[96] The festival extends into the Fremont East Entertainment District.^[97] The Thursday evening before First Friday is known in the arts district as "Preview Thursday," which highlights new gallery exhibitions throughout the district.^[98]

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.

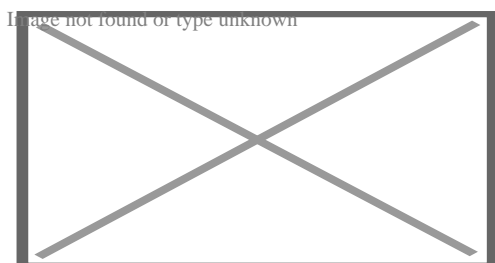
Las Vegas has earned the moniker "Gambling Capital of the World," as it has the world's most land-based casinos.^[99] The city is also host to more [AAA Five Diamond](#) hotels than any other city in the world.^[100]

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,[101] the National Football League (NFL)'s Las Vegas Raiders, who relocated from Oakland, California, in 2020 and play at Allegiant Stadium in Paradise,[102] 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.[103][104]

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.[105] The Las Vegas Lights FC of the United Soccer League play in Cashman Field in Downtown Las Vegas.[106][107]

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.[108]

North of Las Vegas is the Las Vegas Motor Speedway, a 1.5 mile tri-oval constructed in 1972 that hosts two NASCAR Cup Series races each year, one in the spring and a playoff race in the fall.[109]

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)	2021	0
Las Vegas Desert Dogs	Box lacrosse	NLL	Lee's Family Forum (5,567)		0

Semi-pro and amateur teams

[edit]

Team	Sport	League	Venue (capacity)	Established Titles	
Las Vegas Dream	Basketball	ABA	City National Arena (600)	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

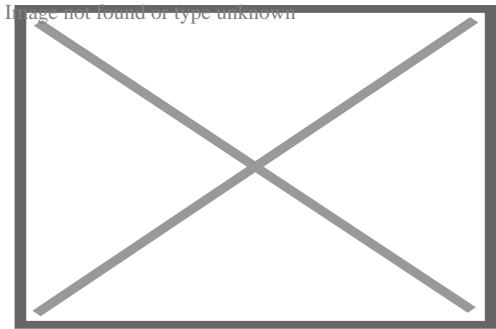
College teams

[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](#)]



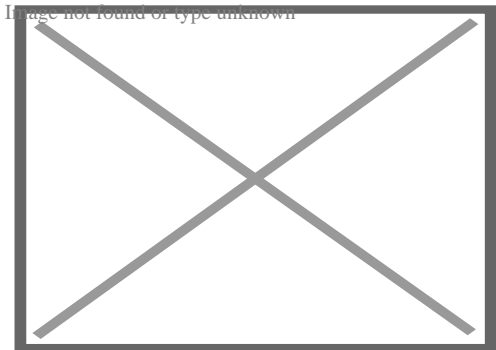
Spanish Trail Country Club, a 27-hole golf course

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.^[110]

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.^[111]

Government

[[edit](#)]



Las Vegas City Hall in downtown Las Vegas

The city of Las Vegas has a **council–manager government**.^[112] The mayor sits as a council member–at–large and presides over all **city council** meetings.^[112] 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.^[113] The city manager is responsible for the administration and the day–to–day operations of all **municipal services** and city departments.^[114] The city manager maintains intergovernmental relationships with federal, state, county and other local governments.^[114]

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**.^[115] 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**.^[116] North Las Vegas, Henderson, Boulder City, Mesquite, UNLV and CCSD have their own police departments.^[117]

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.^{[118][119][120]}

Downtown is the location of **Lloyd D. George Federal District Courthouse**^[121] and the Regional Justice Center,^[122] 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	^[123]	
Brian Knudsen	1st Ward Council member	Democratic	^{[124][125]}	Mayor Pro Tem

Victoria Seaman	2nd Ward Council member	Republican	[126][125]	
Olivia Diaz	3rd Ward Council member	Democratic	[127][125]	
Francis Allen–Palenske	4th Ward Council member	Republican		
Shondra Summers–Armstrong	5th Ward Council member	Democratic	[128]	
Nancy Brune	6th Ward Council member	Democratic		

Politics

[edit]

Las Vegas City Presidential Election Results

Las Vegas City Presidential Election Results[129]

Main article: Las Vegas Valley § Education

Year	Democratic	Republican	Third Parties
2024	51.4% 149,647	46.8% 136,073	1.8% 5,299
2020	54.3% 150,733	43.7% 121,302	2.1% 5,763
2016	52.9% 121,107	41.2% 94,392	5.9% 13,544
2012	57.7% 119,156	42.3% 87,227	0% 0
2008	58.8% 118,827	39.2% 79,207	1.89% 22,436

Primary and secondary public education is provided by the Clark County School District.[130]

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).[131]

UNLV is a public, land-grant, [R1 research](#) university and is home to the [Kirk Kerkorian School of Medicine](#)[132] and the [William S. Boyd School of Law](#), the only law school in Nevada.[133] 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.[134]

CSN, with campuses throughout Clark County,[135] is a [community college](#) with one of the largest enrollments in the United States.[136] In unincorporated Clark County, CSN's Charleston campus is home to the headquarters of [Nevada Public Radio](#) (KNPR), an [NPR](#) member station.[137][138]

Private higher education

[[edit](#)]

[Touro University Nevada](#) located in [Henderson](#) is a non-profit, private institution primarily focusing on medical education.[139] Other institutions include a number of [for-profit](#) private schools (e.g., [Le Cordon Bleu College of Culinary Arts](#), [DeVry University](#), among others).[140]

Media

[[edit](#)]

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

Newspapers

[[edit](#)]

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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.^[141] 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."^{[142][143]}
- *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."^[144] 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.^{[145][146]}
- *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

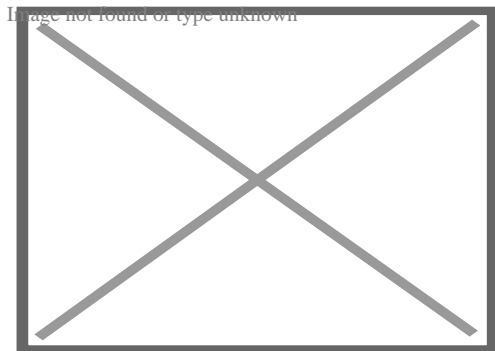
[\[edit\]](#)

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

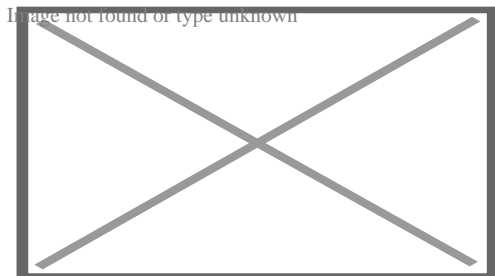
Transportation

[\[edit\]](#)

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.[147]

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**. [148]

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**. [149]

The **Las Vegas Monorail** on the Strip was privately built, and upon bankruptcy taken over by the **Las Vegas Convention and Visitors Authority**. [150]

Silver Rider Transit operates three routes within Las Vegas, offering connections to Laughlin, [151] Mesquite, [152] and Sandy Valley. [153]

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. [154]

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. [155] 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[156]

- Ann Road

-  **Craig Road (SR 573)**
-  **Cheyenne Avenue (SR 574)**
- **Smoke Ranch Road**
-  **Washington Avenue (SR 578)**
-  **Summerlin Parkway (SR 613)**
-  **Bonanza Road (SR 579)**
-  **Charleston Boulevard (SR 159)**
-  **Sahara Avenue (SR 589)**

North–south roads, west to east

- **Fort Apache Road**
- **Durango Drive**
- **Buffalo Drive**
-  **Rainbow Boulevard (SR 595)**
-  **Jones Boulevard (SR 596)**
- **Decatur Boulevard**
- **Valley View Boulevard**
-  **Rancho Drive**
- **Maryland Parkway**
-  **Eastern Avenue (SR 607)**
- **Pecos Road**
-  **Lamb Boulevard (SR 610)**
-  **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](#)]

- [Architecture of Las Vegas](#)
- [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](#)
- [List of public art in Las Vegas](#)
- [List of baseball parks in Las Vegas](#)
- [Radio stations in Las Vegas](#)
- [Television stations in Las Vegas](#)

Notes

[[edit](#)]

- [^]
 - American English: /ləˈmeɪz/ *lahss VAY-g?ss*
 - Spanish pronunciation: [las ˈmeɪˈdz] 'The Meadows'
- [^] 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.
- [^] **a** **b** From 15% sample
- [^] 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](#).

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Further reading


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-  [Resources](#) from Wikiversity
-  [Travel information](#) from Wikivoyage

- [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](#)

Portals:

-  Cities
-  Nevada
-  North America
-  United States

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City of Las Vegas

- Las Vegas–Paradise, NV MSA
- State of Nevada

- Architecture
- Flag
- History
- Timeline
- Landmarks
- Skyscrapers
- Sports
- Transportation

Flag of Las Vegas

-  Category
-  WikiProject

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Municipalities and communities of **Clark County, Nevada**, United States

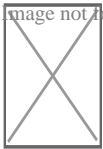
County seat: **Las Vegas**

Cities

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

CDPs

- **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**



Clark
County
map

**Unincorporated
communities**

- Centennial Hills
- Cold Creek
- Corn Creek
- 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

- 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

Ghost towns

**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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Las Vegas Valley

- Las Vegas MSA
- State of Nevada

LV Transportation

- **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)

- 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

Sports

- 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

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

Neighborhoods

- 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

- 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

Area shopping

- Architecture
- History
- Timeline
- Landmarks
- Skyscrapers
- Las Vegas Strip
- Restaurants
- Michelin-starred restaurants
- Condominiums
- 1999 flood

Other

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-  **WikiProject**

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State of Nevada

Carson City (capital)

Topics

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 - World War II
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- Culture
- 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
- Pahrnagat 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

- Former counties**
- Bullfrog
 - Ormsby
 - Roop

Flag **Nevada portal**
Image: Nevada portal, unknown

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Southern California megaregion

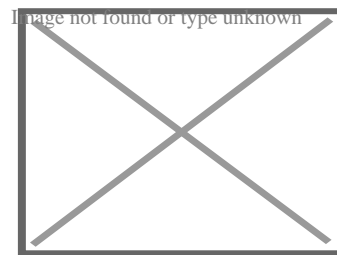
Metropolitan areas and cities in *italics* are located outside of California

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

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

- Independent city

 - Carson City

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The 100 most populous cities of the United States

1. New York, New York	26. Detroit, Michigan	51. Aurora, Colorado	76. Gilbert, Arizona
2. Los Angeles, California	27. Louisville, Kentucky	52. Wichita, Kansas	77. Madison, Wisconsin
3. Chicago, Illinois	28. Portland, Oregon	53. Cleveland, Ohio	78. Reno, Nevada
4. Houston, Texas	29. Memphis, Tennessee	54. New Orleans, Louisiana	79. Chandler, Arizona
5. Phoenix, Arizona	30. Baltimore, Maryland	55. Henderson, Nevada	80. St. Louis, Missouri
6. Philadelphia, Pennsylvania	31. Milwaukee, Wisconsin	56. Honolulu, Hawaii	81. Chula Vista, California
7. San Antonio, Texas	32. Albuquerque, New Mexico	57. Anaheim, California	82. Buffalo, New York
8. San Diego, California	33. Tucson, Arizona	58. Orlando, Florida	83. Fort Wayne, Indiana
9. Dallas, Texas	34. Fresno, California	59. Lexington, Kentucky	84. Lubbock, Texas
10. Jacksonville, Florida	35. Sacramento, California	60. Stockton, California	85. St. Petersburg, Florida
11. Fort Worth, Texas	36. Atlanta, Georgia	61. Riverside, California	86. Toledo, Ohio
12. San Jose, California	37. Mesa, Arizona	62. Irvine, California	87. Laredo, Texas
13. Austin, Texas	38. Kansas City, Missouri	63. Corpus Christi, Texas	88. Port St. Lucie, Florida
14. Charlotte, North Carolina	39. Raleigh, North Carolina	64. Newark, New Jersey	89. Glendale, Arizona
15. Columbus, Ohio	40. Colorado Springs, Colorado	65. Santa Ana, California	90. Irving, Texas
16. Indianapolis, Indiana	41. Omaha, Nebraska	66. Cincinnati, Ohio	91. Winston- Salem, North Carolina
17. San Francisco, California	42. Miami, Florida	67. Pittsburgh, Pennsylvania	92. Chesapeake, Virginia
18. Seattle, Washington	43. Virginia	68. Saint Paul,	93. Garland,
19. Denver, Colorado			
20. Oklahoma			

Cities ranked by [United States Census Bureau](#) population estimates for July 1, 2024.

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International

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Geographic

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Other

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About Las Vegas

Las Las vega, informally referred to as Las vega, is the most populated city in the U. S. state of Nevada and the area seat of Clark County. The Las Vegas Valley city is the biggest within the better Mojave Desert, and second-largest in the Southwestern USA. According to the United States Census Bureau, the city had 641,903 locals in 2020, with

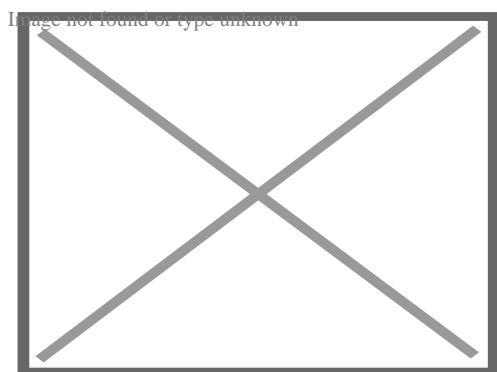
a metropolitan populace of 2,227,053, making it the 24th-most heavily populated city in the United States. Las Vegas is a globally popular significant hotel city, known mainly for its gaming, shopping, great dining, home entertainment, and nightlife. It has actually most venues fixated midtown Las Vegas and even more to the Las Las vega Strip, located outdoors city limitations in the unincorporated communities of Paradise and Winchester. The Las Vegas Valley works as the leading economic, business, and cultural facility in Nevada. Las Vegas was resolved in 1905 and officially integrated in 1911. At the close of the 20th century, it was one of the most booming North American city founded within that century (a comparable distinction was made by Chicago in the 19th century). Populace development has accelerated given that the 1960s and right into the 21st century, and in between 1990 and 2000 the populace increased by 85. 2%. The city expenses itself as the Entertainment Capital of the World, and is renowned for its glamorous and big casino-hotels. As of 2023, Las Las vega draws in over 40. 8 million visitors each year, making it one of the most visited cities in the USA and regularly ranking amongst the world's leading vacationer destinations. It is the 3rd most popular U. S. destination for business conventions and a worldwide leader in the friendliness market. The city's tolerance for numerous kinds of adult home entertainment has actually gained it the label "Sin City", and has made it a preferred setup for movies, literature, television programs, commercials and video.

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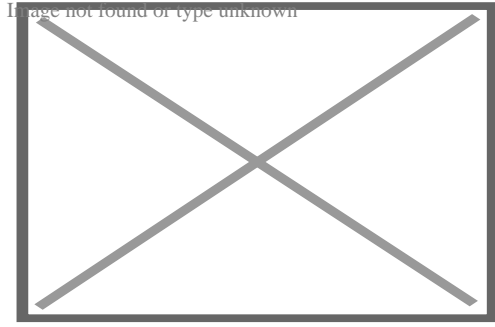
About Artificial turf

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Artificial turf with rubber crumb infill



Side view of artificial turf

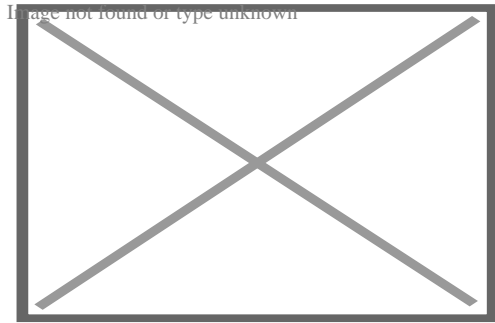
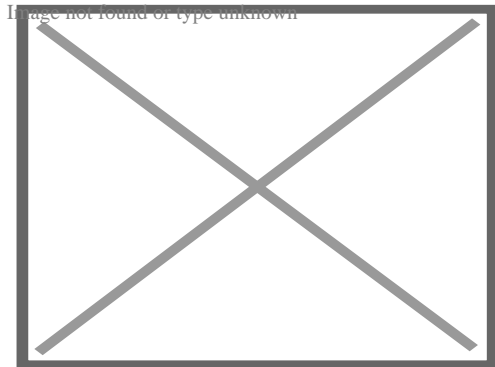


Diagram of the structure of modern artificial turf



Artificial turf square mats

Artificial turf is a surface of **synthetic fibers** made to look like natural **grass**, used in sports arenas, residential lawns and commercial applications that traditionally use grass. It is much more durable than grass and easily maintained without **irrigation** or trimming, although periodic cleaning is required. Stadiums that are substantially covered and/or at high latitudes often use artificial turf, as they typically lack enough sunlight for **photosynthesis** and substitutes for solar radiation are prohibitively expensive and energy-intensive. Disadvantages include increased risk of injury especially when used in athletic competition, as well as health and environmental concerns about the petroleum and toxic chemicals used in its manufacture.

Artificial turf first gained substantial attention in 1966, when ChemGrass was installed in the year-old [Astrodome](#), developed by [Monsanto](#) and rebranded as [AstroTurf](#), now a [generic trademark](#) (registered to a new owner) for any artificial turf.

The first-generation system of shortpile fibers without infill of the 1960s has largely been replaced by two more. The second features longer fibers and sand infill and the third adds recycled [crumb rubber](#) to the sand. Compared to earlier systems, modern artificial turf more closely resembles grass in appearance and is also considered safer for athletic competition. However, it is still not widely considered to be equal to grass. Sports clubs, leagues, unions and individual athletes have frequently spoken out and campaigned against it, while local governments have enacted and enforced laws restricting and/or banning its use.

History

[[edit](#)]

David Chaney, who moved to [Raleigh, North Carolina](#), in 1960 and later served as Dean of the [North Carolina State University](#) College of Textiles, headed the team of [Research Triangle Park](#) researchers who created the first notable artificial turf. That accomplishment led *[Sports Illustrated](#)* to declare Chaney as the man "responsible for indoor major league baseball and millions of welcome mats."

Artificial turf was first installed in 1964 on a recreation area at the [Moses Brown School](#) in [Providence, Rhode Island](#).^[1] The material came to public prominence in 1966, when [AstroTurf](#) was installed in the [Astrodome](#) in [Houston, Texas](#).^[1] The state-of-the-art indoor stadium had attempted to use natural grass during its initial season in [1965](#), but this failed miserably and the field conditions were grossly inadequate during the second half of the season, with the dead grass painted green. Due to a limited supply of the new artificial grass, only the infield was installed before the [Houston Astros'](#) home opener in April [1966](#); the outfield was installed in early summer during an extended Astros road trip and first used after the [All-Star](#) Break in July.

The use of AstroTurf and similar surfaces became widespread in the U.S. and Canada in the early 1970s, installed in both indoor and outdoor stadiums used for [baseball](#) and [football](#). More than 11,000 artificial turf playing fields have been installed nationally.^[2]

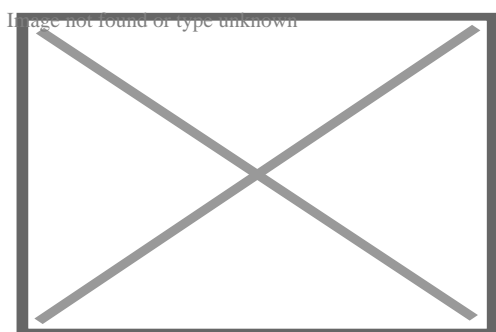
More than 1,200 were installed in the U.S. in 2013 alone, according to the industry group the Synthetic Turf Council.[\[2\]](#)

Sports applications

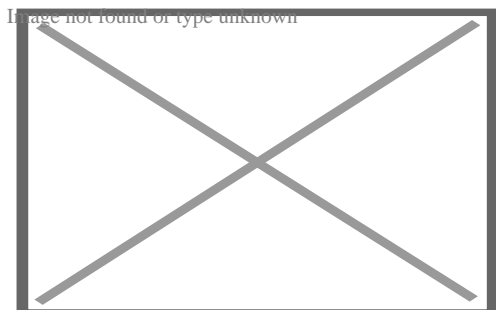
[\[edit\]](#)

Baseball

[\[edit\]](#)



[Tropicana Field](#) with its artificial turf field.



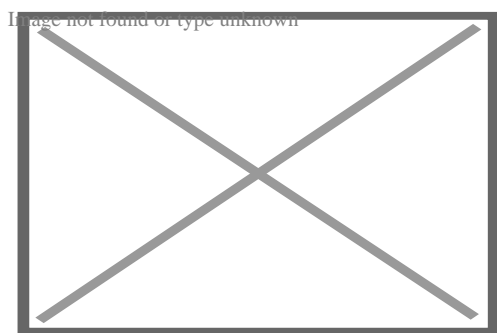
An artificial-turf field at a high school in Oregon.

Artificial turf was first used in [Major League Baseball](#) in the Houston [Astrodome](#) in 1966, replacing the grass field used when the stadium opened a year earlier. Even though the grass was specifically bred for indoor use, the dome's semi-transparent [Lucite](#) ceiling panels, which had been painted white to cut down on glare that bothered the players, did not pass enough sunlight to support the grass. For most of the [1965 season](#), the [Astros](#) played on green-painted dirt and dead grass.

The solution was to install a new type of artificial grass on the field, ChemGrass, which became known as AstroTurf. Given its early use, the term *astroturf* has since been

genericized as a term for any artificial turf.[3] Because the supply of AstroTurf was still low, only a limited amount was available for the first home game. There was not enough for the entire outfield, but there was enough to cover the traditional grass portion of the infield. The outfield remained painted dirt until after the All-Star Break. The team was sent on an extended road trip before the break, and on July 19, 1966, the installation of the outfield portion of AstroTurf was completed.

The Chicago White Sox became the first team to install artificial turf in an outdoor stadium, as they used it only in the infield and adjacent foul territory at Comiskey Park from 1969 through 1975.[4] Artificial turf was later installed in other new multi-purpose stadiums such as Pittsburgh's Three Rivers Stadium, Philadelphia's Veterans Stadium, and Cincinnati's Riverfront Stadium. Early AstroTurf baseball fields used the traditional all-dirt path, but starting in 1970 with Cincinnati's Riverfront Stadium, [5] teams began using the "base cutout" layout on the diamond, with the only dirt being on the pitcher's mound, batter's circle, and in a five-sided diamond-shaped "sliding box" around each base. With this layout, a painted arc would indicate where the edge of the outfield grass would normally be, to assist fielders in positioning themselves properly. The last stadium in MLB to use this configuration was Rogers Centre in Toronto, when they switched to an all-dirt infield (but keeping the artificial turf) for the 2016 season. [6][7]



Artificial turf being installed on a baseball field in Queens, New York City.

The biggest difference in play on artificial turf was that the ball bounced higher than on real grass and also traveled faster, causing infielders to play farther back than they would normally so that they would have sufficient time to react. The ball also had a truer bounce than on grass so that on long throws fielders could deliberately bounce the ball in front of the player they were throwing to, with the certainty that it would travel in a straight line and not be deflected to the right or left. The biggest impact on the game of "turf", as it came to be called, was on the bodies of the players. The artificial surface, which was generally placed over a concrete base, had much less give

to it than a traditional dirt and grass field did, which caused more wear-and-tear on knees, ankles, feet, and the lower back, possibly even shortening the careers of those players who played a significant portion of their games on artificial surfaces. Players also complained that the turf was much hotter than grass, sometimes causing the metal spikes to burn their feet or plastic ones to melt. These factors eventually provoked a number of stadiums, such as the [Kansas City Royals' Kauffman Stadium](#), to switch from artificial turf back to natural grass.

In 2000, St. Petersburg's [Tropicana Field](#) became the first MLB field to use a third-generation artificial surface, [FieldTurf](#). All other remaining artificial turf stadiums were either converted to third-generation surfaces or were replaced entirely by new natural grass stadiums. In a span of 13 years, between 1992 and 2005, the [National League](#) went from having half of its teams using artificial turf to all of them playing on natural grass. With the replacement of Minneapolis's [Hubert H. Humphrey Metrodome](#) by [Target Field](#) in 2010, only two MLB stadiums used artificial turf from 2010 through 2018: Tropicana Field and Toronto's Rogers Centre. This number grew to three when the Arizona Diamondbacks switched [Chase Field](#) to artificial turf for the 2019 season; the stadium had grass from its opening in 1998 until 2018, but the difficulty of maintaining the grass in the stadium, which has a retractable roof and is located in a desert city, was cited as the reason for the switch.^[8] In 2020, Miami's [Marlins Park](#) (now loanDepot Park) also switched to artificial turf for similar reasons, while the Texas Rangers' new [Globe Life Field](#) was opened with an artificial surface, as it is also a retractable roof ballpark in a hot weather city; this puts the number of teams using synthetic turf in MLB at five as of 2023.

American football

[\[edit\]](#)

The first professional American football team to play on artificial turf was the [Houston Oilers](#), then part of the [American Football League](#), who moved into the [Astrodome](#) in 1968, which had installed AstroTurf two years prior. In 1969, the [University of Pennsylvania's Franklin Field](#) in Philadelphia, at the time also home field of the [Philadelphia Eagles](#), switched from grass to AstroTurf, making it the first [National](#)

Football League stadium to use artificial turf.

In 2002, CenturyLink Field, originally planned to have a natural grass field, was instead surfaced with FieldTurf upon positive reaction from the Seattle Seahawks when they played on the surface at their temporary home of Husky Stadium during the 2000 and 2001 seasons. This would be the first of a leaguewide trend taking place over the next several seasons that would not only result in teams already using artificial surfaces for their fields switching to the new FieldTurf or other similar surfaces but would also see several teams playing on grass adopt a new surface. (The Indianapolis Colts' RCA Dome and the St. Louis Rams' Edward Jones Dome were the last two stadiums in the NFL to replace their first-generation AstroTurf surfaces for next-generation ones after the 2004 season). For example, after a three-year experiment with a natural surface, Giants Stadium went to FieldTurf for 2003, while M&T Bank Stadium added its own artificial surface the same year (it has since been removed and replaced with a natural surface, which the stadium had before installing the turf). Later examples include Paul Brown Stadium (now Paycor Stadium), which went from grass to turf in 2004; Gillette Stadium, which made the switch in 2006;^[9] and NRG Stadium, which did so in 2015. As of 2021, 14 NFL fields out of 30 are artificial. NFL players overwhelmingly prefer natural grass over synthetic surfaces, according to a league survey conducted in 2010. When asked, "Which surface do you think is more likely to shorten your career?", 90% responded artificial turf.^[10] When players were asked "Is the Turf versus Grass debate overblown or a real concern"^[11] in an anonymous player survey, 83% believe it is a real concern while 12.3% believe it is overblown.

Following receiver Odell Beckham Jr.'s injury during Super Bowl LVI, other NFL players started calling for turf to be banned since the site of the game, SoFi Stadium, was a turf field.^[12]

Arena football is played indoors on the older short-pile artificial turf.

Canadian football

[edit]

The first professional [Canadian football](#) stadium to use artificial turf was [Empire Stadium](#) in [Vancouver, British Columbia](#), then home of the [Canadian Football League's BC Lions](#), which installed 3M TartanTurf in 1970. Today, eight of the nine stadiums in the CFL currently use artificial turf, largely because of the harsh weather conditions in the latter-half of the season. The only one that does not is [BMO Field](#) in Toronto, which initially had an artificial pitch and has been shared by the CFL's [Toronto Argonauts](#) since 2016 (part of the endzones at that stadium are covered with artificial turf). ^[13] The first stadium to use the next-generation surface was Ottawa's Frank Clair Stadium (now [TD Place Stadium](#)), which the [Ottawa Renegades](#) used when they began play in 2002. The [Saskatchewan Roughriders' Taylor Field](#) was the only major professional sports venue in North America to use a second-generation artificial playing surface, [OmniTurf](#), which was used from 1988 to 2000, followed by AstroTurf from 2000 to 2007 and FieldTurf from 2007 to its 2016 closure. ^[14]

Cricket

[\[edit\]](#)

Some [cricket pitches](#) are made of synthetic grass^[15] or of a hybrid of mostly natural and some artificial grass, with these "hybrid pitches" having been implemented across several parts of the [United Kingdom](#)^[16] and Australia.^[17] The first synthetic turf cricket field in the USA was opened in [Fremont, California](#) in 2016.^[18]

Field hockey

[\[edit\]](#)

Further information: [Field hockey history § The synthetic revolution](#)

The introduction of synthetic surfaces has significantly changed the sport of [field hockey](#). Since being introduced in the 1970s, competitions in western countries are now mostly played on artificial surfaces. This has increased the speed of the game considerably and changed the shape of hockey sticks to allow for different techniques,

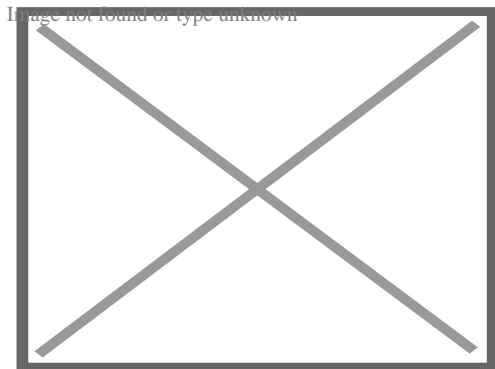
such as reverse stick trapping and hitting.

Field hockey artificial turf differs from artificial turf for other sports, in that it does not try to reproduce a grass feel, being made of shorter fibers. This allows the improvement in speed brought by earlier artificial turfs to be retained. This development is problematic for areas which cannot afford to build an extra artificial field for hockey alone. The [International Hockey Federation](#) and manufacturers are driving research in order to produce new fields that will be suitable for a variety of sports.

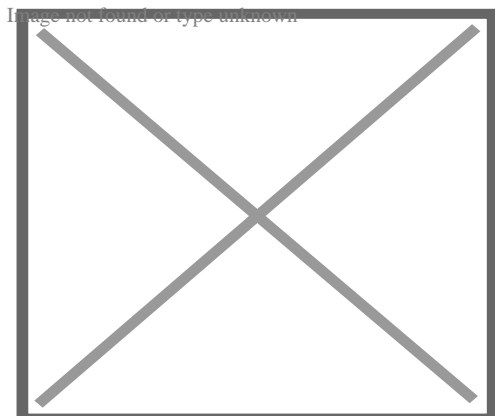
The use of artificial turf in conjunction with changes in the game's rules (e.g., the removal of offside, introduction of rolling substitutes and the self-pass, and to the interpretation of obstruction) have contributed significantly to change the nature of the game, greatly increasing the speed and intensity of play as well as placing far greater demands on the conditioning of the players.

Association football

[[edit](#)]



[Aspmyra](#), Norway: home of the [football](#) club [FK Bodø/Glimt](#)



A slide tackle driving up crumbed rubber in the playing surface

The use of artificial turf, and whether they are not allowed or not, varies between different tournaments and time periods. Though grass is preferred in general in association football, artificial turf is found in areas where it is seen as impractical to maintain natural grass season-long, with causes including very cold climates (For instance [Norway's Eliteserien](#)) or multi-purpose stadiums ([Seattle's Lumen Field](#)).

Use permitted

[[edit](#)]

- [UEFA Champions League](#) (2005–)
- [UEFA Europa League](#) (2005–)
- [UEFA Conference League](#)
- [FIFA](#) national team matches (200?–)
- [UEFA](#) national team matches (2005–)
- [FA Cup](#)
- [Swiss Super League](#)
- [Allsvenskan](#)
- [Danish Superliga](#)
- [Eliteserien](#)
- [Veikkausliiga](#)
- [Meistriliiga](#)
- [Cymru Premier](#)
- [CONMEBOL](#) tournaments[19]
- [Campeonato Brasileiro Série A](#) (2016–)
- [Bolivian Primera División](#)[19]
- [Major League Soccer](#)

Use prohibited

[[edit](#)]

- [Football League First Division / Premier League](#) (1991–)

- Football League tiers 2–4 (1995–)
- Indian Super League (2015–)
- Eredivisie (2025–)
- Scottish Premiership (2026–)[20]

History in United Kingdom

[edit]

Some association football clubs in Europe installed synthetic surfaces in the 1980s, which were called "plastic pitches" (often derisively) in countries such as England. There, four professional club venues had adopted them; Queens Park Rangers's Loftus Road (1981–1988), Luton Town's Kenilworth Road (1985–1991), Oldham Athletic's Boundary Park (1986–1991) and Preston North End's Deepdale (1986–1994). QPR had been the first team to install an artificial pitch at their stadium in 1981, but were the first to remove it when they did so in 1988.

Artificial pitches were banned from top-flight (then First Division) football in 1991, forcing Oldham Athletic to remove their artificial pitch after their promotion to the First Division in 1991, while then top-flight Luton Town also removed their artificial pitch at the same time. The last Football League team to have an artificial pitch in England was Preston North End, who removed their pitch in 1994 after eight years in use. Artificial pitches were banned from the top four divisions from 1995.

Artificial turf gained a bad reputation^[neutrality is disputed] globally, with fans and especially with players. The first-generation artificial turf surfaces were carpet-like in their look and feel, and thus, a far harder surface than grass and soon became known^[by whom] as an unforgiving playing surface that was prone to cause more injuries, and in particular, more serious joint injuries, than would comparatively be suffered on a grass surface. This turf was also regarded as aesthetically unappealing to many fans^[weasel words].

In 1981, London football club Queens Park Rangers dug up its grass pitch and installed an artificial one. Others followed, and by the mid-1980s there were four artificial surfaces in operation in the English league. They soon became a

national joke: the ball pinged round like it was made of rubber, the players kept losing their footing, and anyone who fell over risked carpet burns. Unsurprisingly, fans complained that the football was awful to watch and, one by one, the clubs returned to natural grass.[21]

In November 2011, it was reported that a number of English football clubs were interested in using artificial pitches again on economic grounds.[22] As of January 2020, artificial pitches are not permitted in the Premier League or Football League but are permitted in the National League and lower divisions. Bromley are an example of an English football club who currently use a third-generation artificial pitch.[23] In 2018, Sutton United were close to achieving promotion to the Football League and the debate in England about artificial pitches resurfaced again. It was reported that, if Sutton won promotion, they would subsequently be demoted two leagues if they refused to replace their pitch with natural grass.[24] After Harrogate Town's promotion to the Football League in 2020, the club was obliged to install a natural grass pitch at Wetherby Road;[25] and after winning promotion in 2021 Sutton Utd were also obliged to tear up their artificial pitch and replace it with grass, at a cost of more than £500,000.[26] Artificial pitches are permitted in all rounds of the FA Cup competition.

History elsewhere

[edit]

In the 1990s, many North American soccer clubs also removed their artificial surfaces and re-installed grass, while others moved to new stadiums with state-of-the-art grass surfaces that were designed to withstand cold temperatures where the climate demanded it. The use of artificial turf was later banned by FIFA, UEFA and by many domestic football associations, but FIFA and UEFA allowed it again from the mid-2000's (UEFA from the 2005–06 season onwards), provided that the turfs are FIFA Recommended. UEFA has now been heavily involved in programs to test artificial turf, with tests made in several grounds meeting with FIFA approval. A team of UEFA, FIFA and German company Polytan conducted tests in the Stadion Salzburg Wals-Siezenheim in Salzburg, Austria which had matches played on it in UEFA Euro 2008. It is the second FIFA 2 Star approved artificial turf in a European domestic top flight, after Dutch club Heracles Almelo received the FIFA certificate in August 2005.[27] The

tests were approved.[28]

FIFA originally launched its FIFA Quality Concept in February 2001.

A full international fixture for the 2008 European Championships was played on October 17, 2007, between England and Russia on an artificial surface, which was installed to counteract adverse weather conditions, at the Luzhniki Stadium in Moscow. [29][30] It was one of the first full international games to be played on such a surface approved by FIFA and UEFA. The latter ordered the 2008 European Champions League final hosted in the same stadium in May 2008 to place on grass, so a temporary natural grass field was installed just for the final.

In 2007, UEFA stressed that artificial turf should only be considered an option where climatic conditions necessitate.[31] One Desso "hybrid grass" product incorporates both natural grass and artificial elements.[32]

In June 2009, following a match played at Estadio Ricardo Saprissa in Costa Rica, American national team manager Bob Bradley called on FIFA to "have some courage" and ban artificial surfaces.[33]

FIFA designated a star system for artificial turf fields that have undergone a series of tests that examine quality and performance based on a two star system.[34] Recommended two-star fields may be used for FIFA Final Round Competitions as well as for UEFA Europa League and Champions League matches.[35] There are currently 130 FIFA Recommended 2-Star installations in the world.[36]

In 2009, FIFA launched the Preferred Producer Initiative to improve the quality of artificial football turf at each stage of the life cycle (manufacturing, installation and maintenance).[37] Currently, there are five manufacturers that were selected by FIFA: Act Global, Limonta, Desso, GreenFields, and Edel Grass. These firms have made quality guarantees directly to FIFA and have agreed to increased research and development.

In 2010, Estadio Onnilife with an artificial turf opened in Guadalajara to be the new home of Chivas, one of the most popular teams in Mexico. The owner of Chivas, Jorge Vergara, defended the reasoning behind using artificial turf because the stadium was designed to be "environment friendly and as such, having grass would result [in] using

too much water." [38] Some players criticized the field, saying its harder surface caused many injuries. When [Johan Cruyff](#) became the adviser of the team, he recommended the switch to natural grass, which the team did in 2012. [39]

The [2015 FIFA Women's World Cup](#) took place entirely on artificial surfaces, as the event was played in Canada, where almost all of the country's stadiums use artificial turf due to climate issues. This plan garnered criticism from players and fans, some believing the artificial surfaces make players more susceptible to injuries. Over fifty of the female athletes protested against the use of artificial turf on the basis of [gender discrimination](#). [40][41] [Australia](#) winger [Caitlin Foord](#) said that after playing 90 minutes there was no difference to her post-match recovery – a view shared by the rest of the squad. The squad spent much time preparing on the surface and had no problems with its use in Winnipeg. "We've been training on [artificial] turf pretty much all year so I think we're kind of used to it in that way ... I think grass or turf you can still pull up sore after a game so it's definitely about getting the recovery in and getting it right", Foord said. [42] A lawsuit was filed on October 1, 2014, in an Ontario tribunal court by a group of women's international soccer players against FIFA and the Canadian Soccer Association and specifically points out that in 1994 FIFA spent \$2 million to plant natural grass over artificial turf in [New Jersey](#) and [Detroit](#). [43] Various celebrities showed their support for the women soccer players in defense of their lawsuit, including actor [Tom Hanks](#), NBA player [Kobe Bryant](#) and [U.S. men's soccer team](#) keeper [Tim Howard](#). Even with the possibility of boycotts, [FIFA](#)'s head of women's competitions, Tatjana Haenni, made it clear that "we play on artificial turf and there's no Plan B." [44][45]

The first stadium to use artificial turf in Brazil was [Atlético Paranaense's Arena da Baixada](#) in 2016. In 2020, the administration of [Allianz Parque](#), home of [Sociedade Esportiva Palmeiras](#), started the implementation of the second artificial pitch in the country. [46]

In 2024, the [Eredivisie](#) banned artificial turfs, meaning [hybrid grass](#) and [natural grass](#) became mandatory, starting from the 2025–26 season. [47]

In UEFA tournaments, teams who are used to playing on artificial turf are seen as having a large home advantage against teams who don't, as was the case for [Bodø/Glimt](#)'s semi-final campaign in the [2024–25 UEFA Europa League](#). [48]

Rugby union

[\[edit\]](#)

Rugby union also uses artificial surfaces at a professional level. Infill fields are used by English [Premiership Rugby](#) teams [Gloucester](#), [Newcastle Falcons](#), [Saracens F.C.](#) and the now defunct [Worcester Warriors](#), as well as [United Rugby Championship](#) teams [Cardiff](#), [Edinburgh](#) and [Glasgow Warriors](#). Some fields, including [Twickenham Stadium](#), have incorporated a hybrid field, with grass and synthetic fibers used on the surface. This allows for the field to be much more hard wearing, making it less susceptible to weather conditions and frequent use.

Tennis

[\[edit\]](#)

Main article: [Tennis court](#)

Carpet has been used as a surface for indoor tennis courts for decades, though the first carpets used were more similar to home carpets than a synthetic grass. After the introduction of [AstroTurf](#), it came to be used for tennis courts, both indoor and outdoor, though only a small minority of courts use the surface. [\[49\]](#)[\[50\]](#) Both infill and non-infill versions are used, and are typically considered medium-fast to fast surfaces under the International Tennis Federation's classification scheme. [\[49\]](#) A distinct form found in tennis is an "artificial clay" surface, [\[49\]](#) which seeks to simulate a [clay court](#) by using a very short pile carpet with an infill of the same loose aggregate used for clay courts that rises above the carpet fibers. [\[49\]](#)

[Tennis courts](#) such as [Wimbledon](#) are considering using an artificial hybrid grass to replace their natural lawn courts. Such systems incorporate synthetic fibers into natural grass to create a more durable surface on which to play. [\[51\]](#) Such hybrid surfaces are currently used for some association football stadiums, including [Wembley Stadium](#).

Golf

[[edit](#)]



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Synthetic turf can also be used in the golf industry, such as on driving ranges, putting greens and even in some circumstances tee boxes. For low budget courses, particularly those catering to casual golfers, synthetic putting greens offer the advantage of being a relatively cheap alternative to installing and maintaining grass greens, but are much more similar to real grass in appearance and feel compared to sand greens which are the traditional alternative surface. Because of the vast areas of golf courses and the damage from clubs during shots, it is not feasible to surface fairways with artificial turf.

Motor racing

[[edit](#)]

Artificial grass is used to line the perimeter of some sections of some motor circuits, and offers less grip than some other surfaces.^[52] It can pose an obstacle to drivers if it gets caught on their car.^[53]

Other applications

[[edit](#)]

Landscaping

[[edit](#)]



A home's yard with artificial grass.

Since the early 1990s, the use of synthetic grass in the more arid western states of the United States has moved beyond athletic fields to residential and commercial landscaping.[54] New water saving programs, as of 2019, which grant rebates for turf removal, do not accept artificial turf as replacement and require a minimum of plants. [55][56]

The use of artificial grass for convenience sometimes faces opposition: Legislation frequently seeks to preserve natural gardens and fully water permeable surfaces, therefore restricting the use of hardscape and plantless areas, including artificial turf. In several locations in different countries, homeowners have been fined, ordered to remove artificial turf and/or had to defend themselves in courts. Many of these restrictions can be found in local bylaws and ordinances. These not always applied in a consistent manner,[57][58][59] especially in municipalities that utilize a complaint-based model for enforcing local laws.

Sunlight reflections from nearby windows can cause artificial turf to melt. This can be avoided by adding perforated vinyl privacy window film adhesive to the outside of the window causing the reflection.

Airports

[edit]

Artificial turf has been used at airports.[60] Here it provides several advantages over natural turf – it does not support wildlife, it has high visual contrast with runways in all seasons, it reduces **foreign object damage** (FOD) since the surface has no rocks or clumps, and it drains well.[61]

Some artificial turf systems allow for the integration of **fiber-optic** fibers into the turf. This would allow for runway lighting to be embedded in artificial landing surfaces for aircraft (or lighting or advertisements to be directly embedded in a playing surface). [62]

Tanks for octopuses

[[edit](#)]

Artificial turf is commonly used for tanks containing octopusses, in particular the [Giant Pacific octopus](#) since it is a reliable way to prevent the octopusses from escaping their tank, as they prevent the suction cups on the tentacles from getting a tight seal. [\[63\]](#)

Environmental and safety concerns

[[edit](#)]

Environmental footprint

[[edit](#)]

The first major academic review of the environmental and health risks and benefits of artificial turf was published in 2014; [\[64\]](#) it was followed by extensive research on possible risks to human health, but holistic analyses of the environmental footprint of artificial turf compared with natural turf only began to emerge in the 2020s, [\[65\]\[66\]](#) and frameworks to support informed policymaking were still lacking. [\[67\]\[68\]](#) Evaluating the relative environmental footprints of natural and artificial turf is complex, with outcomes depending on a wide range of factors, including (to give the example of a sports field): [\[64\]](#)

- what ecosystem services are lost by converting a site to a sports pitch
- how resource-intensive is the landscaping work and transport of materials to create a pitch
- whether input materials are recycled and whether these are recycled again at the end of the pitch's life
- how resource-intensive and damaging maintenance is (whether through water, fertiliser, weed-killer, reapplication of rubber crumb, snow-clearing, etc.)

- how intensively the facility is used, for how long, and whether surface type can reduce the overall number of pitches required

Artificial turf has been shown to contribute to global warming by absorbing significantly more radiation than living turf and, to a lesser extent, by displacing living plants that could sequester carbon dioxide through photosynthesis; [69] a study at New Mexico State University found that in that environment, water-cooling of artificial turf can demand as much water as natural turf. [70] However, a 2022 study that used real-world data to model a ten-year-life-cycle environmental footprint for a new natural-turf soccer field compared with an artificial-turf field found that the natural-turf field contributed twice as much to global warming as the artificial one (largely due to a more resource-intensive construction phase), while finding that the artificial turf would likely cause more pollution of other kinds. It promoted improvements to usual practice such as the substitution of **cork** for rubber in artificial pitches and more drought-resistant grasses and electric mowing in natural ones. [65] In 2021, a **Zurich University of Applied Sciences** study for the city of **Zurich**, using local data on extant pitches, found that, per hour of use, natural turf had the lowest environmental footprint, followed by artificial turf with no infill, and then artificial turf using an infill (e.g. granulated rubber). However, because it could tolerate more hours of use, unfilled artificial turf often had the lowest environmental footprint in practice, by reducing the total number of pitches required. The study recommended optimising the use of existing pitches before building new ones, and choosing the best surface for the likely intensity of use. [66] Another suggestion is the introduction of **green roofs** to **offset** the conversion of grassland to artificial turf. [71]

Maintenance

[edit]

Contrary to popular belief, artificial turf is not maintenance free. It requires regular maintenance, such as raking and patching, to keep it functional and safe. [72]

Pollution and associated health risks

[edit]

Further information: [Artificial turf–cancer hypothesis](#)

Some artificial turf uses infill such as silicon sand, but most uses granulated [rubber](#), referred to as "[crumb rubber](#)". Granulated rubber can be made from [recycled car tires](#) and may carry [heavy metals](#), [PFAS chemicals](#), and other chemicals of environmental concern. The [synthetic fibers](#) of artificial turf are also subject to degradation. Thus chemicals from artificial turfs [leach](#) into the environment, and artificial turf is a source of [microplastics pollution](#) and [rubber pollution](#) in [air](#), [fresh-water](#), [sea](#) and [soil](#) environments.^{[73][74][75][76][77][78][64]}^{[[excessive citations](#)]} In Norway, Sweden, and at least some other places, the rubber granulate from artificial turf infill constitutes the second largest source of microplastics in the environment after the [tire](#) and [road wear](#) particles that make up a large portion of the fine [road debris](#).^{[79][80][81]} As early as 2007, Environment and Human Health, Inc., a lobby-group, proposed a moratorium on the use of ground-up rubber tires in fields and playgrounds based on health concerns; ^{[[82](#)]} in September 2022, the [European Commission](#) made a draft proposal to restrict the use of microplastic granules as infill in sports fields.^[83]

What is less clear is how likely this pollution is in practice to harm humans or other organisms and whether these environmental costs outweigh the benefits of artificial turf, with many scientific papers and government agencies (such as the [United States Environmental Protection Agency](#)) calling for more research.^[2] A 2018 study published in [Water, Air, & Soil Pollution](#) analyzed the chemicals found in samples of tire crumbs, some used to install school athletic fields, and identified 92 chemicals only about half of which had ever been studied for their health effects and some of which are known to be carcinogenic or irritants. It stated "caution would argue against use of these materials where human exposure is likely, and this is especially true for playgrounds and athletic playing fields where young people may be affected".^[84] Conversely, a 2017 study in *Sports Medicine* argued that "regular physical activity during adolescence and early adulthood helps prevent cancer later in life. Restricting the use or availability of all-weather year-round synthetic fields and thereby potentially reducing exercise

could, in the long run, actually increase cancer incidence, as well as cardiovascular disease and other chronic illnesses." [85]

The possibility that carcinogenic substances in artificial turf could increase risks of human cancer (the **artificial turf–cancer hypothesis**) gained a particularly high profile in the first decades of the twenty-first century and attracted extensive study, with scientific reports around 2020 finding cancer-risks in modern artificial turf negligible. [86][87][88][89] But concerns have extended to other human-health risks, such as **endocrine disruption** that might affect early puberty, obesity, and children's attention spans.[90][91][92][93] Potential harm to fish[75] and earthworm[94] populations has also been shown.

A study for the **New Jersey Department of Environmental Protection** analyzed lead and other metals in dust kicked into the air by physical activity on five artificial turf fields. The results suggest that even low levels of activity on the field can cause particulate matter containing these chemicals to get into the air where it can be inhaled and be harmful. The authors state that since no level of lead exposure is considered safe for children, "only a comprehensive mandated testing of fields can provide assurance that no health hazard on these fields exists from lead or other metals used in their construction and maintenance." [95]

Kinesiological health risks

[edit]

A number of health and safety concerns have been raised about artificial turf. [2] Friction between skin and older generations of artificial turf can cause abrasions and/or burns to a much greater extent than natural grass.[96] Artificial turf tends to retain heat from the sun and can be much hotter than natural grass with prolonged exposure to the sun.[97]

There is some evidence that periodic disinfection of artificial turf is required as pathogens are not broken down by natural processes in the same manner as natural grass. Despite this, a 2006 study suggests certain microbial life is less active in artificial turf.[96]

There is evidence showing higher rates of player injury on artificial turf. By November 1971, the injury toll on first-generation artificial turf had reached a threshold that resulted in [congressional](#) hearings by the [House](#) subcommittee on commerce and finance.^{[98][99][100]} In a study performed by the National Football League Injury and Safety Panel, published in the October 2012 issue of the *[American Journal of Sports Medicine](#)*, Elliott B. Hershman et al. reviewed injury data from NFL games played between 2000 and 2009, finding that "the injury rate of knee [sprains](#) as a whole was 22% higher on FieldTurf than on natural grass. While MCL sprains did not occur at a rate significantly higher than on grass, rates of ACL sprains were 67% higher on FieldTurf."^[101] [Metatarsophalangeal joint](#) sprain, known as "[turf toe](#)" when the big toe is involved, is named from the injury being associated with playing sports on rigid surfaces such as artificial turf and is a fairly common injury among professional American football players. Artificial turf is a harder surface than grass and does not have much "give" when forces are placed on it.^[102]

See also

[\[edit\]](#)

- [International Association for Sports Surface Sciences](#)
- [List of college football stadiums with non-traditional field colors](#)
- [Poly-Turf](#)
- [The Flying Grass Carpet](#)

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[\[edit\]](#)

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