

Lipizzans

Breed Organization

Lipizzan Association of North America LANA
Website: www.lipizzan.org

The United States Lipizzan Registry USLR
Website: www.uslr.org

Native Country

United States Of America

Breed Description

Lipizzans are not very tall, the largest stands about 16 hands, but their proud carriage, muscular bodies and elastic, powerful movements make them appear much larger than they really are. Lipizzans are late maturing and long lived, many times to 35 or more years of age. Lipizzans display elegance and nobility as soon as they are born. They are born black or bay and slowly turn "white" by the time they are five to eight years of age. Lipizzans are actually grey; their dark skin hidden under a white coat is not revealed unless they are wet or bear a large scar. They are not fully grown in size until they are seven and do not reach full maturity until almost ten years of age. At one year of age, most Lipizzans look shockingly small compared to a Thoroughbred of the same age.

In addition, by the time they are eight months of age most Lipizzans begin to go through the most awkward, ugly duckling stage from which they do not usually emerge until they are about three years old. During this period of awkwardness a typical Lipizzan is barely recognized as a member of his breed. He looks more like a molting mule. In Austria the young Lipizzans are turned out in the alps where no tourists can view them until they are brought back at the age of three. That is when the elegance a Lipizzan possessed at birth returns and is increasingly manifested, even through old age, until the day he dies.

The Lipizzan has a head-heavy, lethargic stance when found in the paddock. When he is turned out or ridden, there is an unforgettable display of fiery animation, with head held high, neck arched, nostrils flared and an inborn ability to leave the ground with incredible power and grace. Then, when approached by a person with a kind word, there is yet another transformation, almost instantaneously, to a docile, gentle horse. He displays obedience and a desire to understand and please, yet without losing his proud bearing and superior presence. Lipizzans are of sound, heavy bone and lameness is rare. They are extremely adaptable to frequent or rapid changes in their environment and their feed. It is their easy going nature and adaptability that makes them very easy keepers. These are, no doubt, the same qualities which enabled the breed to survive some thirty years of being protectively marched around Europe to various hiding places. Lipizzans are a joy to ride with their soft, broad backs and lively gait. Their powerful hindquarters allow them to carry themselves with a natural balance. They have a natural sense of rhythm and maintain a very even tempo in all paces without constant adjustment on the part of the rider. They are extremely quiet and steady under saddle.

The stallions are extremely docile and easily handled. They are, in fact, easier to manage than the mares. Respect, once earned by the handler, will always be there with the Lipizzan stallions. The mares, on the other hand, tend to be a little bossy in a motherly way and must be reminded from time to time that they cannot pull parental rank on the handler.



They rarely shy at anything, and if they do, strangely, it is not for the reasons most horses shy. When a Lipizzan is startled there is no feeling of fear or trembling. His back does not hollow out and leave the rider without a place to sit; rather, a Lipizzan collects himself--his hind legs step under his body, his back elevates, seating his rider even more securely in the saddle. The neck arches, insisting that the rider take up more rein. The horse begins piaffe (a powerful trot in place full of cadence and rhythm) with exhilarating power and boldness. He feels like a coiled spring just waiting for the command to capriole through the air. If instead the rider gives to the horse the smallest amount of rein, the piaffe extends to the passage (a slow motion floating trot). This they do naturally. The Lipizzan makes even a beginning rider believe, just for a moment, that he's an old, respected riding master.

He will respond with willingness and heart when respectfully asked to do so, even by the most inexperienced horseperson ... but woe to the person who believes "a horse is a horse" and attempts to display an egotistical desire to bully or intimidate the Lipizzan. When they are truly afraid or their sense of justice is violated by brutality, they stand their ground, look the opponent in the eye, and "royally" prepare for battle--the very purpose for which they were first bred 400 years ago.

The number of half-Lipizzans now registered has grown to over 150. The half-Lipizzan owners are considering possibilities for forming their own registry. Crossbreeding has become popular, not only in Europe, but in the United States and Mexico. In Mexico and some parts of the U.S., Lipizzans are crossbred to quarter horses to produce excellent working cow horses. When bred to Thoroughbreds, they produce exceptional event horses. Arabs are frequently bred to Lipizzans to produce slightly heavier boned Arab-looking horse. Lipizzans consistently impart their prepotent qualities of intelligence, temperament, and soundness, (and, in almost all cases, color). It remains to be seen if they impart their longevity to other breeds. Lipizzans will not only continue to gain popularity as more people come to know them, but also as a foundation breed to produce a superior all-around American warmblood sporthorse--and possibly an American warmblood pony breed.

Lipizzan horses excel in dressage, especially at the upper levels. Most all Lipizzans are outstanding in competition and in upper level movements such as piaffe, passage, and canter pirouettes, with a brilliance not usually seen in other breeds. These abilities are inborn to the Lipizzan.

They excel not only as driving and dressage horses, but for jumping, cutting, reining, endurance, trail, vaulting, and of course for pleasure. They are used extensively on the East Coast for handicapped riding programs. In spite of their royalty, they are truly an all-around horse capable of performing whatever task is required.

History

Lipizzans represent over 400 years of select breeding, founded upon selections of superior horses gathered from all over the world. They not only possess beauty and nobility, but also a rare combination of courage, strength, ability, temperament, and intelligence.

The Lipizzan breed had its beginning in 1580 when Archduke Charles II established the studfarm in Lipizza (Lipica), using the best imported Spanish horses, Andalusians, Barbs and Berbers bred to the local Karst horses. The Karst horses were white in color, small, slow to mature, and extremely tough. Most people have the false idea that Lipizzans inherited their high stepping gait from the Spanish horse. It was, however, the Karst horse who gave the Lipizzan its high stepping gait.

In the late 1700's the horses were moved three times during the Napoleonic Wars. Napoleon gained possession of the horses for a while and bred his Arab stallion, VESIR, to the Lipizzaners. Seven Arab stallions were used to develop the breed during the period from 1807 to 1856. They were: SIGLAVY, TADMOR, GAZLAN, SAYDAN, SAMSON, HADUDI, and BEN AZET. From 1792 to 1815, the Kladruby horse helped to develop two of the Lipizzan lines (Maestoso & Favory). By 1880 there were 341 Lipizzan horses at the Lipizza studfarm. Of all the sires used in the 18th and 19th centuries, only six founded the original stallion lines of the Lipizzan breed: SIGLAVY, NEAPOLOTANO, MAESTOSO, FAVORY, PLUTO, and CONVERSANO. Later, in Croatia and Hungary, the TULIPAN and INCITATO lines were developed. Until 1916, the Lipizzan studfarm always remained a private possession of the Habsburg monarchy. Up to this time, the expansion of the breed had been affected over the centuries by military conflicts. Whenever warfare threatened the Lipizza stud, the horses were moved away. During

these moves, individual horses would occasionally be given or sold to other studs. From these horses came other small Lipizzan studs, usually within the boundaries of the Austrian empire.

During World War I, the breeding stock was relocated to Laxenburg near Vienna. The foals were placed in the other imperial studfarm, Kladrub. After World War I, central Europe was reorganized. The large Austrian-Hungarian empire was divided into several new republics, and every new state inherited the possessions of the former monarchy. The breeding stock of the imperial studfarm of Lipizza (1580-1916) itself was divided among three different countries. At the time, only 208 Lipizzans were known to be left in existence. The main part (109 horses) went to Italy, to which the village of Lipizza and its surroundings had been awarded. The 1913-1915 foals remained at Kladrub, which was then owned by the Czechoslovakian state. In 1919, the republic of Austria became the owner of the rest of the breeding stock and the stallions of the Spanish Riding School. Following World War I, in addition to Italy, Czechoslovakia, and Austria, other new states which continued the breeding of the Lipizzan horse were Hungary, Rumania, and Yugoslavia.

In 1943, the Lipizzan breed was again threatened with extinction when the mares and foals from Austria, Italy, and Yugoslavia were transferred to Hostau in Czechoslovakia by the German High Command. Through the heroic efforts of the Spanish Riding School's director, Alois Podhajsky, the school was saved yet the performance stallions were not returned to the school until 1955. In 1945, the perpetuation of the breed was guaranteed by the American army, under the command of General Patton, which retrieved the mares and returned them to Austrian soil.

Today Lipizzans are found beyond the borders of what was once the Austrian-Hungarian Empire. With less than 3,000 purebred Lipizzans in the world, the breed is considered rare, and the number of foals born each year is correspondingly small. Extreme care is taken by those involved in the production of Lipizzan horses to insure that the purity of the breed is preserved. Much effort has been expended to develop educational programs to foster voluntary adherence to the traditional breed goals and objectives.

In the late 20th century, the Lipizzan has proven to be a successful competitor at all levels of competition dressage and driving, as well as continuing to be the ultimate mount for classical horsemanship. The breed has also proven to be suitable for other equestrian disciplines including pleasure riding. Owners and breeders are dedicated to the Lipizzan breed because they appreciate its rarity, cultural importance, romantic history, and its traits of intelligence, classical beauty, and harmonious, athletic way of moving.

The first Lipizzans to be privately owned and to be brought to the United States were brought over in 1937 by the Austrian born opera singer, Madame Maria Jeritza. Jeritza brought her two stallions and 2 mares to California and her husband (Winfield Sheehan) produced a movie in 1938 with the Lipizzan PLUTO II-1 and Neapolitano Conversana (known as "Emperor") based on Felix Salten's book "Florian." Then in 1945, General Patton brought back from the Austrians, the stallion PLUTO XX and several mares. When the Army disbanded its cavalry, they and their offspring were auctioned off at the Kellogg Remount Station in 1949. Some went to circuses.

In 1955, millionaire Tempel Smith (Tempel Steel) of Chicago, Illinois, imported 20 Lipizzans from Austria, 11 from Hungary, and 6 from Yugoslavia. He devoted 15 years, until his death in 1980, importing and breeding his herd to over 400 horses. Since Tempel Smith's death, most of the herd has been disbursed. Tempel Farms still breeds a small number of Lipizzans each year, and George Williams continues to successfully show Lipizzans for Tempel Farms.

In 1959 a New York brewery imported 8 Lipizzans. Lipizzans and Lipizzan-Arab crosses were used for the chariot races in the movie Ben Hur. In 1961 Evelyn Dreitzler, of Washington, imported 20 Lipizzans and began a breeding program at Raffyn Farms. However, in 1975, a dam broke and tragically killed 28 of her Lipizzan horses. In 1976, one of her 15-year old Lipizzan stallions, PLUTO CALCEDONA, made his film debut as Buffalo Bill's horse in a Paul Newman movie.

Until about 1981, Lipizzans were very difficult to acquire. Now they are growing rapidly in numbers all over the United States. Disneyland owns a number of Lipizzan mares; the Marine Corps uses them in their Color Guard; and, even former President Reagan has one in San Simeon, California.

The number of Lipizzans in California is estimated to be 100. Current estimates are: 600 in the United States; less than 2000 worldwide, ranging from newborn to 35 or more years of age. There are now more than 20 breeders in California, Oregon, Washington, and Arizona. Although Lipizzans are increasing in numbers and are available for purchase at reasonable prices, most people don't advertise them for sale because they are usually approached by buyers soon after a foal is born. People buy Lipizzans because they want a special, unique horse. More and more people are discovering Lipizzans and their calm disposition, trainability, and versatile gaits.

Behavior

The Lipizzan will respond with willingness and heart when respectfully asked to do so, even by the most inexperienced horseperson ... but woe to the person who believes "a horse is a horse" and attempts to display an egotistical desire to bully or intimidate the Lipizzan. When they are truly afraid or their sense of justice is violated by brutality, they stand their ground, look the opponent in the eye, and "royally" prepare for battle - the very purpose for which they were first bred 400 years ago.

Physical Characteristics - General Equine Information

Horses are prey animals with a well-developed fight-or-flight instinct. Their first response to threat is to startle and usually flee, although they are known to stand their ground and defend themselves or their offspring in cases where flight is not possible, or when their young are threatened. They also tend to be curious; when startled, they will often hesitate an instant to ascertain the cause of their fright, and may not always flee from something that they perceive as non-threatening. Through selective breeding, some breeds of horses are quite docile, particularly certain large draft horses. However, most light horse riding breeds were developed for speed, agility, alertness and endurance; natural qualities that extend from their wild ancestors.

Horses are herd animals, with a clear hierarchy of rank, led by a dominant animal (usually a mare). Horses are also social creatures who are able to form companionship attachments to their own species and to other animals, including humans. They communicate in various ways, including vocalizations such as nickering or whinnying, mutual grooming, and body language. Many horses will become difficult to manage if they are isolated. When this behavior occurs while being handled by human, the horse is called "herd-bound". However, through proper training, it is possible to teach any horse to accept a human as a type of companion, and thus be comfortable away from other horses.

When confined with insufficient companionship, exercise or stimulation, horses may develop stable vices, an assortment of bad habits, mostly psychological in origin, that include wood chewing, wall kicking, "weaving" (rocking back and forth) and other problems.

Age: Depending on breed, management and environment, the domestic horse today have a life expectancy of 25 to 30 years. It is uncommon, but a few horses live into their 40s, and, occasionally, beyond. The oldest verifiable record was "Old Billy," a horse that lived in the 19th century to the age of 62. In modern times, Sugar Puff, who had been listed in the Guinness Book of World Records as the world's oldest then-living pony, died at age 56.

Regardless of a horse's actual birthdate, for most competition purposes, horses are considered a year older on January 1 of each year in the northern hemisphere and August 1 in the southern hemisphere. The exception is endurance riding, where the minimum age to compete is based on the horse's actual calendar age.

The following terminology is used to describe horses of various ages:

Foal: a horse of either sex less than one year old. A nursing foal is sometimes called a suckling and a foal that has been weaned is called a weanling. Most domesticated foals are weaned at 4-6 months of age

Yearling: a horse of either sex that is between one and two years old.

Colt: a male horse under the age of four.

Filly: a female horse under the age of four.

Mare: a female horse four years old and older.

Stallion: a non-castrated male horse four years old and older. Some people, particularly in the UK, refer to a stallion as a "horse." A Ridgling or "Rig" is a stallion which has an undescended testicle. If both testicles are not descended, the horse may appear to be a gelding, but will still behave like a stallion.

Gelding: a castrated male horse of any age, though for convenience sake, many people also refer to a young gelding under the age of four as a "colt."

In horse racing the definitions of colt, filly, mare, and stallion or horse may differ from those given above. In the United Kingdom, Thoroughbred horse racing defines a colt as a male horse less than five years old and a filly as a female horse less than five years old. In the USA, both Thoroughbred racing and harness racing defines colts and fillies as four years old and younger. A very rough estimate of a horse's age can be made from looking at its teeth.

Sleep Patterns: Horses are able to sleep both standing up and lying down. They are able to doze and enter light sleep while standing, an adaptation from life as a prey animal in the wild. Lying down makes an animal more vulnerable to predators. Horses are able to sleep standing up because a "stay apparatus" in their legs allows them to relax their muscles and doze without collapsing. Unlike humans, horses do not sleep in a solid, unbroken period of time. They obtain sleep by means of many short periods of rest. Horses may spend anywhere from four to fifteen hours a day in standing rest, and from a few minutes to several hours lying down. Total sleep time in a day may range from several minutes to a couple of hours. Horses require approximately two and a half hours of sleep, on average, in a 24-hour period. Most of this sleep occurs in many short intervals of about 15 minutes each.

Horses must lie down to reach REM sleep. They only have to lie down for an hour or two every few days to meet their minimum REM sleep requirements. However, if a horse is never allowed to lie down, after several days it will become sleep-deprived, and in rare cases may suddenly collapse as it involuntarily slips into REM sleep while still standing. This condition differs from narcolepsy, though horses may also suffer from that disorder.

Horses sleep better when in groups because some animals will sleep while others stand guard to watch for predators. A horse kept entirely alone will not sleep well because its instincts are to keep a constant eye out for danger.

Size: The English-speaking world measures the height of horses in hands, abbreviated "h" or "hh," and is measured at the highest point of an animal's withers. One hand is 4 Imperial inches, or, as defined in British law, 101.6 mm. Intermediate heights are defined by hands and inches, rounding to the lower measurement in hands, followed by a decimal point and the number of additional inches between 1 and 3. Thus a horse described as 15.2 hh tall, means it is 15 hands, 2 inches, or 62 inches/1.57 m in height.

The size of horses varies by breed, but can also be influenced by nutrition. The general rule for cutoff in height between what is considered a horse and a pony at maturity is 14.2 hands high. (abbreviated "h" or "hh") (147 cm, 58 inches) as measured at the withers. An animal 14.2h or over is usually considered a horse and one less than 14.2h is a pony.

However, there are exceptions to the general rule. Some smaller horse breeds who typically produce individual horses both under and over 14.2h are considered "horses" regardless of height. Likewise, some pony breeds, such as the Pony of the Americas or the Welsh pony, share some features of horses and individual animals may occasionally mature at over 14.2h, but are still considered ponies.

The difference between a horse and pony is not simply a height difference, but also a difference in phenotype or appearance. There are noticeable differences in conformation and temperament. Ponies often exhibit thicker manes, tails and overall coat. They also have proportionally shorter legs, wider barrels, heavier bone, shorter and thicker necks, and short heads with broad foreheads. They often have calmer temperaments than horses and also a high level of equine intelligence that may or may not be used to cooperate with human handlers.

Light riding horses such as Arabians, Morgans, or Quarter Horses usually range in height from 14.0 (142 cm) to 16.0 hands (163 cm) and can weigh from 386 kilograms to about 540 kg (850 to 1200 lb). Larger riding horses such as Thoroughbreds, American Saddlebreds or Warmbloods usually start at about 15.2 hands (157 cm) and often are as tall as 17 hands (172 cm), weighing from 500 kg to 680 kg (1100 lb to 1500 lb). Heavy or draft horses such as the Clydesdale, Belgian, Percheron, and Shire are usually at least 16.0 (163 cm) to 18.0 hands (183 cm) high and can weigh from about 680 kg up to about 900 kg (1500 lb to 2000 lb). Ponies cannot be taller than 14.2h (147 cm), but can be much smaller, down to the Shetland pony at around 10 hands (102 cm), and the Falabella which can be the size of a medium-sized dog. However, while many miniature horse breeds are small as or smaller than a shetland pony, because they are bred to have a horse phenotype (appearance), their breeders and registries classify them as very small horses rather than ponies. The largest horse in history was a Shire horse named Sampson, later renamed Mammoth, foaled in 1846 in Bedfordshire, England. He stood 21.2½ hands high (i.e. 7 ft 2½ in or 2.20 m), and his peak weight was estimated at over 3,300 lb (approx 1.5 tonnes). The current record holder for the world's smallest horse is Thumbelina, a fully mature miniature horse affected by dwarfism. She is 17 inches tall and weighs 60 pounds.

Reproduction and Development: pregnancy lasts for approximately 335-340 days and usually results in one foal (male: colt, female: filly). Twins are rare. Colts are usually carried 2-7 days longer than fillies. Females 4 years and over are called mares and males are stallions. A castrated male is a gelding. Horses, particularly colts, may sometimes be physically capable of reproduction at approximately 18 months but in practice are rarely allowed to breed until a minimum age of 3 years, especially females. Horses four years old are considered mature, though the skeleton usually finishes developing at the age of six, and the precise time of completion of development also depends on the horse's size (therefore a connection to breed exists), gender, and the quality of care provided by its owner. Also, if the horse is larger, its bones are larger; therefore, not only do the bones take longer to actually form bone tissue (bones are made of cartilage in earlier stages of bone formation), but the epiphyseal plates (plates that fuse a bone into one piece by connecting the bone shaft to the bone ends) are also larger and take longer to convert from cartilage to bone as well. These plates convert after the other parts of the bones do but are crucial to development.

Depending on maturity, breed and the tasks expected, young horses are usually put under saddle and trained to be ridden between the ages of two and four. Although Thoroughbred and American Quarter Horse race horses are put on the track at as young as two years old in some countries (notably the United States), horses specifically bred for sports such as show jumping and dressage are generally not entered into top-level competition until a minimum age of four years old, because their bones and muscles are not solidly developed, nor is their advanced training complete. For endurance riding competition, horses may not compete until they are a full 60 calendar months (5 years) old.

Skeletal System: horses have, on average, a skeleton of 205 bones. A significant difference in the bones contained in the horse skeleton, as compared to that of a human, is the lack of a collarbone--their front limb system is attached to the spinal column by a powerful set of muscles, tendons and ligaments that attach the shoulder blade to the torso. The horse's legs and hooves are also unique, interesting structures. Their leg bones are proportioned differently from those of a human. For example, the body part that is called a horse's "knee" is actually the carpal bones that correspond to the human wrist. Similarly, the hock, contains the bones equivalent to those in the human ankle and heel. The lower leg bones of a horse correspond to the bones of the human hand or foot, and the fetlock (incorrectly called the "ankle") is actually the proximal sesamoid bones between the cannon bones (a single equivalent to the human metacarpal or metatarsal bones) and the proximal phalanges, located where one finds the "knuckles" of a human. A horse also has no muscles in its legs below the knees and hocks, only skin and hair, bone, tendons, ligaments, cartilage, and the assorted specialized tissues that make up the hoof (see section hooves, below).

Digestion: a horse is a herbivore with a digestive system adapted to a forage diet of grasses and other plant material, consumed regularly throughout the day, and so they have a relatively small stomach but very long intestines to facilitate a steady flow of nutrients. A 1000 pound horse will eat between 15 and 25 pounds (approximately 7-11 kg) of food per day and, under normal use, drink 10 to 12 gallons (about 38-45 litres) of water. Horses are not ruminants, so they have only one stomach, like humans, but unlike humans, they can also digest cellulose from grasses due to the presence of a "hind gut" called the cecum, or "water gut," that food goes through before reaching the large intestine. Unlike humans, horses cannot vomit, so digestion problems can quickly spell trouble, with colic a leading cause of death.

Teeth: horses are adapted to grazing. In an adult horse, there are 12 incisors (six upper and six lower), adapted to biting off the grass or other vegetation, at the front of the mouth. There are 24 teeth adapted for chewing, the premolars and molars, at the back of the mouth. Stallions and geldings have four additional teeth just behind the incisors, a type of canine teeth that are called "tushes." Some horses, both male and female, will also develop one to four very small vestigial teeth in front of the molars, known as "wolf" teeth, which are generally removed because they can interfere with the bit.

There is an empty interdental space between the incisors and the molars where the bit rests directly on the bars (gums) of the horse's mouth when the horse is bridled.

The incisors show a distinct wear and growth pattern as the horse ages, as well as change in the angle at which the chewing surfaces meet. The teeth continue to erupt throughout life as they are worn down by grazing, and while the diet and veterinary care of the horse can affect the rate of tooth wear, a very rough estimate of the age of a horse can be made by looking at its teeth.

Hooves: the critical importance of the feet and legs is summed up by the traditional adage, "no foot, no horse." The horse hoof begins with the distal phalanges, the equivalent of the human fingertip or tip of the toe, surrounded by cartilage and other specialized, blood-rich soft tissues such as the laminae, with the exterior hoof wall and horn of the sole made essentially of the same material as a human fingernail. The end result is that a horse, weighing on average 1,000 pounds, travels on the same bones as a human on tiptoe. For the protection of the hoof under certain

conditions, some horses have horseshoes placed on their feet by a professional farrier. The hoof continually grows, just like a large fingernail, and needs to be trimmed (and horseshoes reset, if used) every six to eight weeks.

Senses: the senses of a horse are generally superior to those of a human. As prey animals, they must be aware of their surroundings at all times. They have very large eyes (among land animals only the ostrich has a larger eye), with excellent day and night vision, though they may have a limited range of color vision. The side positioning of the eyes gives the horse a wide field of vision of about 350°. While not color-blind, studies indicate that they have difficulty distinguishing greens, browns and grays. Their hearing is good, and the pinna of their ears can rotate a full 360 degrees in order to pick up sound from any direction. Their sense of smell, while much better than that of humans, is not their strongest asset; they rely to a greater extent on vision.

A horse's sense of balance is outstanding; the cerebellum of their brain is highly developed and they are very aware of terrain and placement of their feet. Horses' sense of touch is better developed than many people think; they immediately notice when a fly or mosquito lands on them, even before the insect attempts to bite. Their sense of taste is well-developed in order to determine the nature of the plants they are eating, and their prehensile lips can easily sort even the smallest grains. Horses will seldom eat most poisonous plants or spoiled food unless they have no other choices, although a few toxic plants have a chemical structure that appeals to animals, and thus poses a greater risk of being ingested.

Gaits: all horses move naturally with four basic gaits: the walk, trot or jog, canter or lope, and gallop. Besides these basic gaits, some horses pace, instead of trot. In addition, there are many "ambling" gaits such as the slow gait, rack, fox trot running walk, and tölt. These special gaits are often found in specific breeds, often referred to as "gaited" horses because they naturally possess additional gaits that are approximately the same speed as the trot but smoother to ride. Technically speaking, "gaited horses" replace the standard trot (which is a 2 beat gait) with one of the four beat gaits.

Horse breeds with additional gaits that often occur naturally include: the Tennessee Walking Horse which naturally performs a running walk; the American Saddlebred which can be trained to exhibit a slow gait and the rack; Paso Fino, which has two ambling gaits, the paso corto and paso largo; the Peruvian Paso, which exhibits the paso llano, and sobreandando; and Icelandic horses which are known for the tölt. The fox trot is found in several breeds, most notably the Missouri Foxtrotter. Standardbreds, depending on bloodlines and training, may either pace or trot.

Horse Care: horses are animals that were evolved to graze. They eat grass or hay, sometimes supplemented with grain. They require a plentiful supply of clean water, a minimum of 10 to 12 gallons per day. Although horses are adapted to live outside, they require shelter from the wind and precipitation, which can range from a simple shed or shelter to an elaborate stable.

Horses require annual vaccinations to protect against various diseases, need routine hoof care by a farrier, and regular dental examinations from a veterinarian or a specialized equine dentist. If horses are kept inside in a barn, they require regular daily exercise for their physical health and mental well-being. When turned outside, they require well-maintained, sturdy fences to be safely contained. Regular grooming is also helpful to help the horse maintain good health of the hair coat and underlying skin.

Equine Benefits: horses are trained to be ridden or driven in many different sporting events and competitions. Examples include horse shows, gymkhana and O-Mok-See, rodeos, endurance riding, fox hunting, and Olympic-level events such as three-day eventing, combined driving, dressage, and show jumping. Although scoring varies by event, most emphasize the horse's speed, maneuverability, obedience and/or precision. Sometimes the equitation, the style and ability of the rider, is also considered.

Sports such as polo and horseball do not judge the horse itself, but rather use the horse as a partner for human competitors as a necessary part of the game. Although the horse assists this process and requires specialized training to do so, the details of its performance are not judged, only the result of the rider's actions -- be it getting a ball through a goal or some other achievement. Examples of these sports of partnership between human and animal also include jousting (reenacting the skills used by medieval knights), where the main goal is for one rider to dismount the other, and buzkashi, a team game played throughout Central Asia, the aim being to capture a goat carcass while on horseback.

The most widely known use of horses for sport is horse racing, seen in almost every nation in the world. There are three types: "flat" racing; steeplechasing, i.e. racing over jumps; and harness racing, where horses trot or pace while pulling a driver in a small, light cart known as a sulky. Most race horses in the developed world are Thoroughbreds, a breed which can reach speeds up to 40 mph/70 km/h. In the case of a specialized sprinting breed, the American

Quarter Horse, speeds over 50 mph have been clocked. In harness racing, performed by Standardbred horses, speeds over 30 mph have been measured. A major part of the economic importance of horse racing, as for many sports, lies in the gambling associated with it.

There are certain jobs that horses do very well, and no amount of technology appears able to supersede. Mounted police horses are still effective for crowd control. Cattle ranches still require riders on horseback to round up cattle that are scattered across remote, rugged terrain. Search and rescue organizations in some countries depend upon mounted teams to locate people, particularly hikers and hunters, who are lost in remote areas.

Some land management practices such as cultivating and logging can be efficiently performed with horses. In agriculture less use of fossil fuels, reduced soil compaction and degrading of soil structure can be seen over time with the use of draft animals such as horses. In forestry, logging can be done with horses and can result in reduced damage to soil structure and less damage to trees due to more selective logging.

Horses can also be used in other areas where it is necessary to avoid vehicular disruption to delicate soil. Examples include areas such as a nature reserve. They may also be the only form of transport allowed in wilderness areas. They are also quieter than motorized vehicles. Peace officers such as rangers or game wardens may use horses for patrols, and horses may also be used for clearing trails or other work in areas of rough terrain where vehicles are less effective.

In less affluent countries such as Romania, Kyrgyzstan, and many parts of the Third World, horses, donkeys and mules are routinely used for transport and agriculture. In areas where roads are poor or non-existent and fossil fuels are scarce or the terrain rugged, riding horseback is still the most efficient way to get from place to place.

People with disabilities obtain beneficial results from association with horses. The movement of a horse strengthens muscles throughout a rider's body and promotes better overall health. In many cases, riding has also led to increased mobility for the rider. Horses also provide psychological benefits to people whether they actually ride or not. The benefits of equestrian activity for people with disabilities has also been recognized with the addition of equestrian events to the Paralympic Games and recognition of para-equestrian events by the FEI.

Hippotherapy and therapeutic horseback riding are names for different physical, occupational and speech therapy treatment strategies that utilize equine movement. In the hippotherapy environment, a therapist uses the horse's movement to provide carefully graded sensory input, whereas therapeutic horseback riding uses specific riding skills.

"Equine-assisted" or "equine-facilitated" psychotherapy uses horses as companion animals to assist people with psychological problems. Actual practices vary widely due to the newness of the field; some programs include Therapeutic Horseback Riding and hippotherapy. Non-riding therapies simply encourage a person to touch, speak to and otherwise interact with the horse. People appear to benefit from being able to be around a horse; horses are very sensitive to non-verbal communication and are an ideal resource for working with individuals who have "tuned out" human therapists.

Equine Assisted Learning (EAL), Equine guided education, or equine assisted professional development, is another relatively new field of experiential learning for corporate, professional and personal development. There also have been experimental programs using horses in prison settings. Exposure to horses appears to improve the behavior of inmates in a prison setting and help reduce recidivism when they leave. A correctional facility in Nevada has a successful program where inmates learn to train young mustangs captured off the range in order to make it more likely that these horses will find adoptive homes. Both adult and juvenile prisons in New York, Florida, and Kentucky work in cooperation with the Thoroughbred Retirement Foundation to re-train former racehorses as pleasure mounts and find them new homes. Horses are also used in camps and programs for young people with emotional difficulties.

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