

Horses never forget human friends

Research shows horses also understand words better than expected

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Horses reacted positively to trainers they recognized as friendly, even after not seeing them for eight months.

By Jennifer Viegas

[DiscoveryNews](#)

updated 3/17/2010

Human friends may come and go, but a horse could be one of your most loyal, long-term buddies if you treat it right, suggests a new study.

Horses also understand words better than expected, according to the research, and possess "excellent memories," allowing horses to not only recall their human friends after periods of separation, but also to remember complex, problem-solving strategies for ten years or more. The bond with humans likely is an extension of horse behavior in the wild, since horses value their own horse relatives and friends, and are also open to new, non-threatening acquaintances.

"Horses maintain long-term bonds with several members of their family group, but they also interact temporarily with members of other groups when forming herds," explained Carol Sankey, who led the research, and her team.

"Equid social relationships are long-lasting and, in some cases, lifelong," added the scientists, whose paper has been accepted for publication in the journal *Animal Behavior*. Ethologist Sankey of the University of Rennes and her colleagues studied 20 Anglo-Arabian and three French Saddlebred horses stabled in Chamberet, France. The scientists tested how well the horses remembered a female trainer and her instructions after she and the horses had been separated up to eight months.

The training program for the horses consisted of 41 steps associated with basic grooming and medical care. For example, the horses had to remain immobile in response to the verbal command "reste!" which is French for "stay." The horses also had to lift their feet, tolerate a thermometer inserted into the rectum and more. When a horse did as it was instructed, the trainer rewarded it with food pellets.

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With tasty rewards, the horses "displayed more 'positive' behaviors toward the experimenter, such as sniffing and licking," the researchers wrote. Horses do this as a sign of affiliation with each other, so they weren't necessarily just seeking more food.

The scientists added, "Horses trained without reinforcement expressed four to six times more 'negative' behaviors, such as biting, kicking and 'falling down' on the experimenter." Nevertheless, after the eight months of separation, the horses trained with food rewards gravitated towards the same experimenter. The horses also seemed to accept new people more readily, indicating they had developed a "positive memory of humans" in general.

"From our results, it appears that horses are no different than humans (in terms of positive reinforcement teachings)," according to the researchers. "They behave, learn and memorize better when learning is associated with a positive situation."

While people often train dogs in this way, also using verbal commands, Sankey and her team point out that "the majority of horse-riding training is based on tactile sensations -- pressure from bits, movements of riders' legs, weight change in the saddle."

The 10 smartest animals Since "horses are able to learn and memorize human words" and can hear the human voice better than even dogs can, due to their particular range of hearing, the scientists predict trainers could have success if they incorporate more vocal commands into their horse training programs.

Jill Starr is president and founder of Lifesavers Wild Horse Rescue, a non-profit that provides refuge, training and adoption placement for otherwise slaughter-bound wild mustangs and domestic horses.

Starr told Discovery News that she's observed horses responding well to verbal commands, such as "trot," but she still feels "horses and people get along better if the person doesn't chatter, since this causes the individual to have greater awareness of body language that is more familiar to horses."

She, however, agrees that horses are loyal, intelligent and have very long-lasting memories - of both good and bad experiences.

Starr said, "Horses can be very forgiving, but they never forget."

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