

Lagoon dries up as drought grips Peru's southern Andes

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View of the drying Cconchaccota lagoon in the Apurimac region of Peru, Friday, Nov. 25, 2022. For climate experts the lagoon could have dried up because it was less than a meter deep, depended exclusively on rainwater and was under strong solar radiation. Credit: AP Photo/Guadalupe Pardo

From her home under the baking sun of Peru's southern Andes, Vilma Huamaní can see the small Cconchaccota lagoon, the axis of her community's life. It has been a source of trout, fun for children eager to swim, beauty as flamingos flew from over the mountains and water for thirsty sheep.

Nowadays, all Huamaní sees of the lagoon 4,100 meters (13,120 feet) above sea level is a plain of cracked and broken soil surrounded by yellow grass.

"It has totally dried up," she said.

The rainy season in this part of South America should have started in September, but the area is experiencing its driest period in almost a half century, affecting more than 3,000 communities in the central and southern Andes of Peru.

A light rain last week—only the second in almost eight months—prompted residents to set bowls outdoors to collect some water. The drops lifted dust as they hit the ground, and by the next morning, the sun had evaporated the scant moisture.

Dead sheep and lambs so weak they can barely stand can be found among sparse yellow grass. The planting of potatoes, which is the only crop that grows in Huamaní's village, has been delayed, leading many to expect food shortages in the coming months because people are already feeding themselves from their dehydrated potato reserves.

"Every day, I ask—I hope—the rain falls ... when there is rain the grasses grow, the potatoes (grow)," said Huamaní, 38, who moved with her four children from Peru's capital, Lima, to Cconchaccota in 2020 in an effort to flee the coronavirus pandemic.



An emciated sheep walks on the dry bed of the Cconchaccota lagoon in the Apurimac region of Peru, Friday, Nov. 25, 2022. The lagoon located at 4,100 meters above sea level has been a source of trout, fun for children eager to swim, beauty as flamingos flew from over the mountains and water for thirsty sheep. Nowadays, however, an ongoing drought has dried up the lagoon. Credit: AP Photo/Guadalupe Pardo

The absence of rain in part of the Andes occurs as a result of the La Niña phenomenon, present in 2022 for the third consecutive year, according to the United Nations' meteorological agency. The drought is also hitting parts of Bolivia, Paraguay and Argentina.

Yuri Escajadillo, a climatologist with Peru's National Meteorology and

Hydrology Service, said an index used to measure droughts qualified the region as "extremely dry."

"It is a record value," Escajadillo said.

In Cconchaccota, there is no drinking water, sewage or telephone service. People drink water they get from a nearby spring, though it sometimes dries up, too.

Residents say their appeals to local authorities for help went unanswered for more than two months.

So, Grisaldo Challanca, a young farmer, used his cellphone to record videos and prepare a report about the drought. He posted it on a Facebook page after he climbed to about 4,500 meters above sea level to get an internet connection.



Girls carry a dying sheep, at the Cconchaccota community in the Apurimac region of Peru, Saturday, Nov. 26, 2022. Because of the ongoing drought dead sheep and lambs so weak they can barely stand can be found nearby among sparse yellow grass. Credit: AP Photo/Guadalupe Pardo

The long-delayed response from the regional authorities arrived last week with the delivery of packages of fodder oats for the surviving sheep, cattle, alpacas and llamas.

"The animals are all bone," said John Franklin Challanca, a 12-year-old shepherd, whose family has lost 50 sheep.

The Andes is one of the world's most sensitive regions to climate migrations because of droughts, tropical storms and hurricanes, heavy rains and floods, according to the latest report by the United Nations' Intergovernmental Panel on Climate Change.

"Global warming has caused glacier loss in the Andes from 30% to more than 50% of their area since the 1980s. Glacier retreat, temperature increase and precipitation variability, together with land use changes, have affected ecosystems, water resources and livelihoods through landslides and flood disasters," the report says, adding that summer rainfall appears to be decreasing in the southern Andes.



A woman collects potatoes before sowing, at the Cconchaccota community in the Apurimac region of Peru, Saturday, Nov. 26, 2022. Because of the ongoing drought, the planting of potatoes, which is the only crop that grows in the village has been delayed, leading many to expect food shortages in the coming months as residents are already feeding themselves from their dehydrated potato reserves. Credit: AP Photo/Guadalupe Pardo



Residents harvest potatoes at a field near the Cconchaccota community, in the Apurimac region of Peru, Saturday, Nov. 26, 2022. Because of the ongoing drought, the planting of potatoes, which is the only crop that grows in the village has been delayed, leading many to expect food shortages in the coming months as residents are already feeding themselves from their dehydrated potato reserves. Credit: AP Photo/Guadalupe Pardo



Residents carry fodder for their animals at the Cconchaccota community in the Apurimac region of Peru, Friday, Nov. 25, 2022. The delivery of packages of fodder oats for the surviving sheep, cattle, alpacas and llamas is the long-delayed response from the regional authorities to the ongoing drought. Credit: AP Photo/Guadalupe Pardo



A woman stands near a spring next to a dead sheep at the Cconchaccota community in Apurimac region of Peru, Friday, Nov. 25, 2022. Residents drink water from that nearby spring that sometimes dries up. Credit: AP Photo/Guadalupe Pardo



Women pray during a religious service at the only evangelical church in the Cconchaccota community, in the Apurimac region of Peru, Saturday, Nov. 26, 2022. A woman at the prayer service said that the ongoing drought is a punishment “for the sins of man” and a clear sign that the end of the world is soon to come. Credit: AP Photo/Guadalupe Pardo



Residents harvest potatoes at the Cconchaccota community in the Apurimac region of Peru, Saturday, Nov. 26, 2022. A climatologist with Peru's National Meteorology and Hydrology Service, said an index used to measure droughts qualified the region as "extremely dry." Credit: AP Photo/Guadalupe Pardo



Girls play with a block of ice pieced together from sleet that fell the day before on the Cconchaccota community, in the Apurimac region of Peru, Saturday, Nov. 26, 2022. Peasants of the Andes in various regions of Peru and Bolivia are praying for rain amidst an ongoing drought. Credit: AP Photo/Guadalupe Pardo



Girls play with ice pieced together from sleet that fell the previous day on the Cconchaccota community, in the Apurimac region of Peru, Saturday, Nov. 26, 2022. The rainy season in this part of South America should have started in September, but the area is experiencing its driest period in almost half a century, affecting more than 3,000 communities in the central and southern Andes of Peru. Credit: AP Photo/Guadalupe Pardo



A man turns over the soil for planting potatoes at the Cconchaccota community in the Apurimac region of Peru, Saturday, Nov. 26, 2022. Because of the ongoing drought, the planting of potatoes, which is the only crop that grows in the village has been delayed, leading many to expect food shortages in the coming months as residents are already feeding themselves from their dehydrated potato reserves. Credit: AP Photo/Guadalupe Pardo



Standing with her daughter, a woman weaves next to fodder brought to feed the starving animals of the Cconchaccota community, in the Apurimac region of Peru, Friday, Nov. 25, 2022. The fodder is the long-delayed drought response from the regional authorities to feed for the surviving sheep, cattle, alpacas and llamas. Credit: AP Photo/Guadalupe Pardo



Dry earth crusts on the bed of the Cconchaccota lagoon in the Apurimac region of Peru, Friday, Nov. 25, 2022. For climate experts the lagoon could have dried up because it was less than a meter deep, depended exclusively on rainwater and was under strong solar radiation. Credit: AP Photo/Guadalupe Pardo

Small farmers in various parts of the Andes in Peru and Bolivia are praying for rain. Prayers are held on the shores of Lake Titicaca, which is shared by both countries, and on mountains that Indigenous communities consider gods.

In the only evangelical church in Cconchaccota, Rossy Challanca said the drought was a punishment "for the sins of man" and a clear sign that the end of the world is soon to come.

But for climate experts, the lagoon could have dried up because it was less than a meter (3 feet) deep, depended exclusively on rainwater and was under strong solar radiation.

Wilson Suárez, professor of mountain hydrology and glaciology at Peru's La Molina National Agrarian University, said those factors constitute "an ideal cocktail" for the small lagoons in the high Andean areas to dry up.

"This has to put them on notice that times are changing," Suárez said of residents who have long depended on the lagoons for watering their livestock. "A drought is not easy to handle ... the climate is changing."

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