## HEALTH & SCIEN

## This script's an original

■ Mexican artifact is the oldest known in the West and hasn't yet been linked to other writings, scientists say

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WASHINGTON - An ancient slab of green stone in-scribed with insects, ears of corn, fish and other symbols is indecipherable so far, but one message is clear. It is the earliest known writing in the Western Hemisphere.

The ancient Olmec civilization, which occupied the Mexican Gulf Coast, probably produced the faintly etched symbols around 900 BC, or roughly three centuries before what previously had been proposed as the earliest examples of writing in the Americas.

"We are dealing with the first," clear evidence of writing in the New World," said Stephen Houston, a Brown University anthropologist. Houston and his U.S. and Mexican colleagues detail the tablet's discovery and analysis in a study appearing this week in the journal Science. The pattern of symbols cover-

ing the face of the rectangular block also represents a previous-ly unknown ancient writing system. The text contains 28 distinct glyphs or symbols, some of which are repeated three and four times. The writing system does not appear to be linked to any known later scripts and may represent an etymological dead end, according to the study.

Other experts not involved in the study agreed with Houston and his colleagues that the horizontally arranged inscription shows patterns that are the hallmarks of true writing, in-cluding syntax and languagespecific word order.

"That's full-blown, legitimate text — written symbols taking the place of spoken words, said William Saturno, a University of New Hampshire anthropologist and expert in Me-



Signs carved into tortoise shells unearthed in 1999 may be the earliest written words.

soamerican writing.

The text is roughly arranged in rows across the block's face, which is almost exactly the dimensions of a standard legal pad. The face is smooth and slightly concave, which suggests it may have been worn down as it was inscribed and erased multiple times, Houston said.

3000 BC PRESENTADAY PRAQ

Cuneitorm, wedge-shaped pictograms formed by pen and clay, used by Sumerians. Egyptians borrow idea for their hieroglyphics.

There is little hope of deciphering the meaning of the text. The small size of the block and faintness of the inscription imply the text was not a public document but instead was meant for intimate reading, Houston said. Some suggested it may have had a ritual use.

Villagers in the Mexican state

Sanskrit is used. It forms basis for modern languages of India, such as Hindi, Bengali and Punjabi.

of Veracruz discovered the ta let sometime before 1999 wh quarrying an ancient Olm mound. The study's author traveled to the site this year examine and photograph block. Based on other materia believed to have been four with the slab, the team conclusion ed it is roughly 2,900 years of

## Sources from the Past

## The Popol Vuh on the Creation of Human Beings

The Popol Vuh outlines traditional Maya views on the creation of the world and human beings. The version of the work that survives today dates from the mid-sixteenth century, but it reflects beliefs of a much earlier era. According to the Popol Vuh, the gods wanted to create intelligent beings that would recognize and praise them. Three times they tried to fashion such beings out of animals, mud, and wood, but without success. Then they decided to use maize and water as their ingredients.

id here is the beginning of the conception of humans, and of the search for the ingredients of the human body. othey spoke, the [gods] Bearer, Begetter, the Makers, todelers named Sovereign Plumed Serpent:

"The dawn has approached, preparations have been made, and morning has come for the provider, nurturer, forn in the light, begotten in the light. Morning has some for humankind, for the people of the face of the arth," they said. It all came together as they went on hinking in the darkness, in the night, as they searched and they sifted, they thought and they wondered.

And here their thoughts came out in clear light. They sought and discovered what was needed for human lesh.... Broken Place, Bitter Water Place is the name: the yellow corn, white corn came from there....

And these were the ingredients for the flesh of the human work, the human design, and the water was for the blood. It became human blood, and corn was also used by the Bearer, Begetter. . . .

And then the yellow corn and white corn were ground, and Xmucane did the grinding nine times. Corn was used, along with the water she rinsed her hands with, for the creation of grease; it became human fat when it was worked by the Bearer, Begetter, Sovercign Plumed Serpent, as they are called....

It was staples alone that made up their flesh.

These are the names of the first people who were made and modeled.

This is the first person: Jaguar Quitze. And now the second: Jaguar Night. And now the third: Mahucutah.

And the fourth: True Jaguar.

And these are the names of our first mother-fathers. They were simply made and modeled, it is said; they had no mother and no father. We have named the men by themselves. No woman gave birth to them, nor were they begotten by the builder, sculptor, Bearer, Begetter. By sacrifice alone, by genius alone they were made, they were modeled by the Maker, Modeler, Bearer, Begetter, Sovereign Plumed Serpent. And when they came to fruition, they came out human:

They talked and they made words.

They looked and they listened.

They walked, they worked. . . .

And then their wives and women came into being. Again, the same gods thought of it. It was as if they were asleep when they received them, truly beautiful women were there with Jaguar Quitze, Jaguar Night, Mahucutah, and True Jaguar. With their women there they became wider awake. Right away they were happy at heart again, because of their wives.

Celebrated Seahouse is the name of the wife of Jaguar Quitze.

Prawn House is the name of the wife of Jaguar Night. Hummingbird House is the name of the wife of Mahucutah.

Macaw House is the name of the wife of True Jaguar. So these are the names of their wives, who became ladies of rank, giving birth to the people of the tribes, small and great.

SOURCE: Dennis Tedlock, trans. Popol Vuh: The Definitive Edition of the Mayan Book of the Dawn of Life and the Glories of Gods and Kings. New York: Simon and Schuster, 1985, pp.163-65, 167.

Discuss the extent to which this account of human creation reflects the influences on Maya society of both agriculture and the untamed natural world.