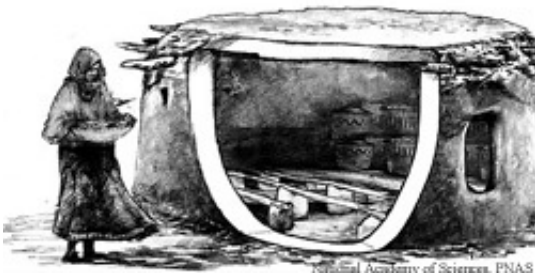


Study describes evidence of world's oldest known granaries

June 22 2009



(PhysOrg.com) -- A new study coauthored by Ian Kuijt, associate professor of anthropology at the University of Notre Dame, describes recent excavations in Jordan that reveal evidence of the world's oldest known granaries. The appearance of the granaries represents a critical evolutionary shift in the relationship between people and plant foods.

Anthropologists consider food storage to be a vital component in the economic and social package that comprises the Neolithic period, contributing to plant [domestication](#), increasingly sedentary lifestyles and new social organizations. It has traditionally been assumed that people only started to store significant amounts of food when plants were domesticated.

However, in a paper appearing in the June 23 edition of the *Proceedings of the National Academies of Sciences*, Kuijt and Bill Finlayson, director, Council for British Research in the Levant, describe recent excavations at Dhra' near the Dead Sea in Jordan that provide evidence of granaries that precede the emergence of fully domesticated plants and large-scale sedentary communities by at least 1,000 years.

"These granaries reflect new forms of risk reduction, intensification and low-level food production," Kuijt said. "People in the Pre-Pottery Neolithic Age (11,500 to 10,550 B.C.) were not using new food sources, but rather, by developing new storage methods, they altered their relationship with traditionally utilized food resources and created the technological context for later development of domesticated plants and an agro-pastoralist economy.

"Building granaries may, at the same time, have been the single most important feature in increasingly sedentism that required active community participation in new life-ways."

Designed with suspended floors for air circulation and protection from rodents, the granaries are located between residential structures that contain plant-processing installations.

The new studies are a continuation of earlier research by Kuijt. As a graduate student from 1987-1995, he worked on and directed several field projects in Jordan that focused on the world's first villages during the Neolithic Period. As part of this research, he did several days of excavation at Dhra' with a Jordanian researcher. This was followed by several other field projects and by research from 2000 to 2005 with Finlayson.

"These granaries are a critical first step, if not the very evolutionary and technological foundation, for the development of large agricultural

villages that appear by 9,500 to 9,000 years ago across the Near East," Kuijt said. "In many ways food storage is the missing link that helps us understand how so many people were able to live together. And much to our surprise, it appears that they developed this technology at least a 1,000 years before anyone thought they did."

Source: University of Notre Dame ([news](#) : [web](#))

Citation: Study describes evidence of world's oldest known granaries (2009, June 22) retrieved 19 April 2024 from <https://phys.org/news/2009-06-evidence-world-oldest-granaries.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.