



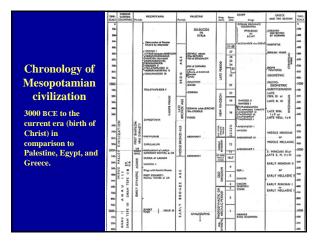


Sites yield an abundance of terra cotta figures of woman with exaggerated hips and breasts, indicating concerns of fertility as a fundamental principle of survival for agro-pastoral communities.

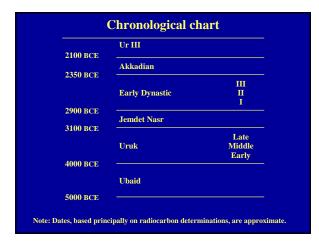
This type of fertility symbol (mother goddess) appeared in the Near East at the end of the 9th millennium and continued for several more millennia.

Gaston Lachaise Standing Woman (Heroic Woman) 1932 (cast 1981)









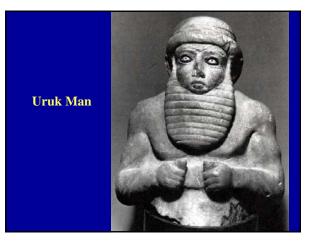


Sumeria 3500-2000 BCE

Lost Culture—Unknown to Herodotus (484–425 BCE) City of Ur Writing Developed 3000 BCE (cuneiform)

Sumer and Akkad, 3500–2000 BCE





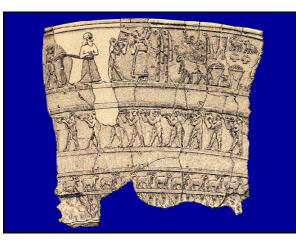


Sumerian Agriculture Canals and Irrigation Systems Ziggurats



An early shaduf, Akkadian period, 3rd millenium BCE Source: Singer et al. (1954)



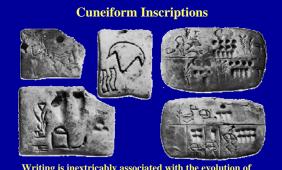






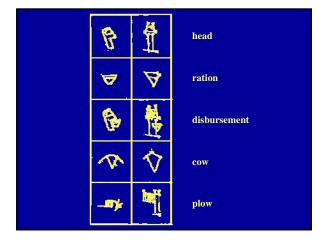






Writing is inextricably associated with the evolution of agriculture.

These 5 Sumerian clay tablets dating to 3000 BCE appear to be associated with crops and livestock.





2100 BCE Oldest Prescription



The Disputation Between the Hoe and the Plow

Hoe picked a quarrel with the Plow. Hoe and Plow—this is their dispute.

Hey! Hoe, Hoe, Hoe, tied up with string; Hoe, made from poplar, with a tooth of ash; Hoe, made from tamarisk, with a tooth of sea-thorn; Hoe, double-toothed, four-toothed; Hoe, child of the poor, bereft even of a loin-cloth;

Hoe cried out to Plow

- "O Plow, you draw furrows—what is your furrowing to me? You make clods—what is your clod making to me?
- You cannot dam up water when it escapes.
- You cannot heap up earth in the basket.
- You cannot press clay or make bricks.
- You cannot lay foundations or build a house.
- You cannot strengthen an old wall's base.
- You cannot put a roof on a man's house.
- O Plow, you cannot straighten a street.
- O Plow, you draw furrows—what is your furrowing to me? You make clods—what is your clod-making to me?"

The Plow cries out to the Hoe

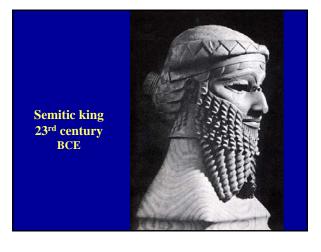
- "I, I am Plow, I was fashioned by the great powers, assembled by noblest hands!
- I am the mighty registrar of God Enlil!
- I am the faithful farmer of Mankind!
- At the celebration of my harvest-festival in the fields,
- Even the King slaughters cattle for me, adding sheep!
- He pours out libations for me, and offers the collected liquids! Drums and tympans sound!
- The king himself takes hold of my handle-bars;
- My oxen he harnesses to the yoke;
- Great noblemen walk at my side;
- The nations gaze at me in admiration,
- The Land watches me in Joy!

Terra Cotta Wagons 2500 BCE

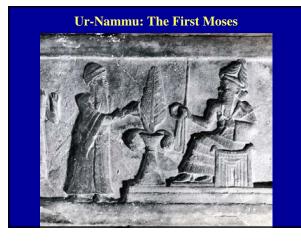


Two-wheeled carts drawn by asses or oxen were developed at the end of the 4th millennium for use on flat land.

Over uneven terrain goods were transported on the backs of asses which could cover 20 km per day.



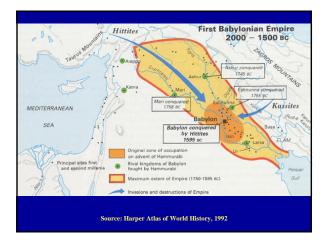




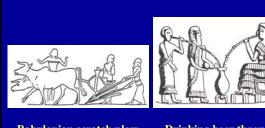
The Legendary Sargon I (2334–2279 BCE)

Founded the Akkadian-Summerian Empire

"The river bore me away and bore me to Akki the irrigator (who) received me in the goodness of his heart and reared me in boyhood. Akki, the irrigator made me a gardener. My service as a gardener was pleasing to Istar and I became King"







Babylonian scratch plow with seed drill.

Drinking beer through tubes from a Syrian seal.

Source: Singer et al. (1954).



Terra cotta and kitchen imprints from city-state of Mari (1800 BCE)

Moulds may have been used in the production of bread and pastries, and perhaps for cheese.

Hammurabi (1795–1750 BCE) King of Babylon Code of Hammurabi Nebuchadnezzar (villain in the Book of Daniel)



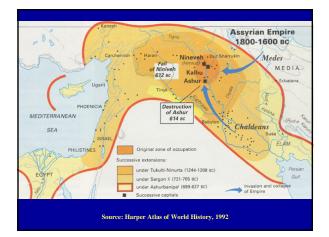
The Laws of Hammurabi

A Sampling of Laws Relating to Agriculture

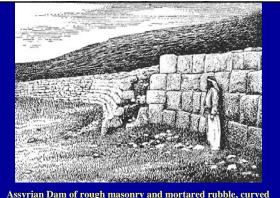
- 64 If a man gives his orchard to a gardener to pollinate (the date palms), as long as the gardener is in possession of the orchard, he shall give to the owner of the orchard two thirds of the yield of the orchard, and he himself shall take one third.
- 65 If the gardener does not pollinate the (date palms in the) orchard and thus diminishes the yield, the gardener [shall measure and deliver] a yield for the orchard to the owner of the orchard in accordance with his neighbor's yield.



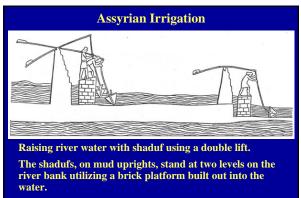








Assyrian Dam of rough masonry and mortared rubble, curved to withstand the flow of the river Khosr above Nineveh



From the palace of Sennacherib at Nineveh, Mesopotamia 7th Century BCE.



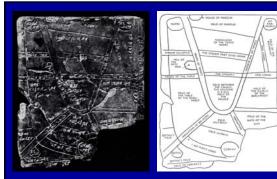


Ziggurat of Aqua Quaf, 1400 BCE

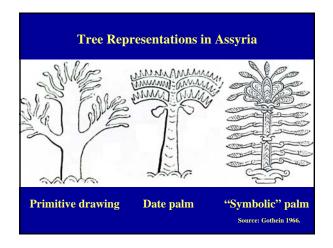
Source Science 293:32 (2001).

Hanging Gardens of Babylon. A 19th century conception.

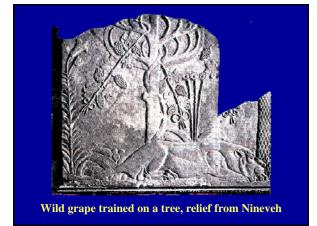
Source: Berrall (1966).



Map of fields and irrigation canals near Nippur, Mesopotamia from cuneiform tablet, ca 1300 BCE (left). Translation (right).



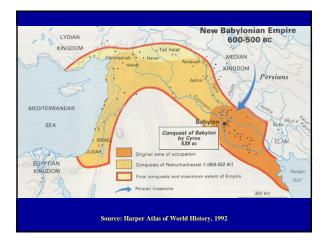




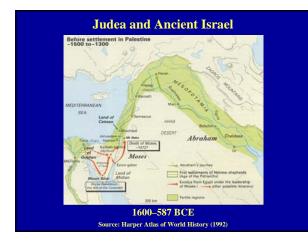


Ivory plaque 800 BCE in Syria (left) based on Egyptian presence. Compare with Egyptian painting (right).

The Nile gods of Upper and Lower Egypt symbolically binding stalks of papyrus into the same bundle to represent the unification of Egypt.













Biblical Sourcebook of Agriculture

And Noah began to be a husbandman, and he planted a vineyard, and he drank of wine. (Genesis 9:20–21)

...and they shall beat their swords into plowshares and their spears into pruning hooks; nations shall not lift up sword against nation; neither shall they learn war any more. (Isaiah 2:14)