

VISIBLE LANGUAGE



Ornamental peg with trilingual text (Old Persian, Babylonian, Elamite).
Persepolis, Iran. Achaemenid period. OIM A29808B (CATALOG No. 61)

VISIBLE LANGUAGE

INVENTIONS OF WRITING
IN THE ANCIENT MIDDLE EAST AND BEYOND

edited by

CHRISTOPHER WOODS

with the assistance of

GEOFF EMBERLING & EMILY TEETER

ORIENTAL INSTITUTE MUSEUM PUBLICATIONS • NUMBER 32
THE ORIENTAL INSTITUTE OF THE UNIVERSITY OF CHICAGO

Library of Congress Control Number: 2010932119

ISBN-10: 1-885923-76-7

ISBN-13: 978-1-885923-76-9

©2010 by The University of Chicago. All rights reserved.

Published 2010. Printed in the United States of America.

The Oriental Institute, Chicago

Oriental Institute Museum Publications No. 32

Series Editors • Leslie Schramer and Thomas G. Urban

Series Editors' Acknowledgments

Rebecca Cain, Thomas R. James, Plamena Pehlivanova, Foy Scalf, and Natalie Whiting assisted in the production of this volume. Dawn Brennan, at press time, provided much needed help.

This volume has been published in conjunction with the exhibition
Visible Language: Inventions of Writing in the Ancient Middle East and Beyond.

Published by The Oriental Institute of the University of Chicago

1155 East 58th Street

Chicago, Illinois 60637 USA

oi.uchicago.edu

Front Cover Illustration: Perforated Tag (Catalog No. 41) and Inlay for Small Cosmetic Box (Catalog No. 72) on an Early Dynastic Lexical List (Catalog No. 56) and Cippus (Healing Statue) (Catalog No. 82);
Back Cover: Arrowhead Inscribed in Proto-Canaanite (Catalog No. 91)

Cover Design by Diane Hanau-Strain

Publication of this book was made possible by the generous support from
The Women's Board of the University of Chicago

Printed by M&G Graphics, Chicago, Illinois

The paper used in this publication meets the minimum requirements of American National Standard for
Information Service — Permanence of Paper for Printed Library Materials, ANSI Z39.48-1984

TABLE OF CONTENTS

Foreword. <i>Gil J. Stein</i>	7
Preface. <i>Geoff Emberling</i>	9
Contributors	11
Time Line of Writing	13
Introduction — Visible Language: The Earliest Writing Systems. <i>Christopher Woods</i>	15
Cuneiform in Mesopotamia and Anatolia	
1. Iconography of Protoliterate Seals. <i>Oya Topçuoğlu</i>	29
2. The Earliest Mesopotamian Writing. <i>Christopher Woods</i>	33
<i>Object Descriptions: Catalog Nos. 1–58</i>	51
3. Adaptation of Cuneiform to Write Akkadian. <i>Andrea Seri</i>	85
<i>Object Descriptions: Catalog Nos. 59–62</i>	94
4. The Rise and Fall of Cuneiform Script in Hittite Anatolia. <i>Theo van den Hout</i>	99
<i>Object Description: Catalog No. 63</i>	107
Bibliography for Cuneiform Essays	109
Egyptian Writing	
5. The Conception and Development of the Egyptian Writing System. <i>Elise V. MacArthur</i>	115
Egyptian Myth of the Creation of Writing	115
<i>Object Descriptions: Catalog Nos. 64–79</i>	122
6. The Earliest Egyptian Writing. <i>Andréas Stauder</i>	137
7. Egyptian Hieroglyphic Writing. <i>Janet H. Johnson</i>	149
<i>Object Descriptions: Catalog Nos. 80–82</i>	152
Orientation of Hieroglyphs. <i>Julie Stauder-Porchet</i>	154
Writing in Nefermaat. <i>Julie Stauder-Porchet</i>	155
The Potency of Writing in Egypt. <i>Emily Teeter</i>	156
8. Hieratic. <i>Kathryn E. Bandy</i>	159
<i>Object Descriptions: Catalog Nos. 83–84</i>	161
9. Demotic. <i>Janet H. Johnson</i>	165
<i>Object Description: Catalog No. 85</i>	169
10. Ptolemaic Hieroglyphs. <i>François Gaudard</i>	173
<i>Object Description: Catalog No. 86</i>	176
11. Coptic. <i>T. G. Wilfong</i>	179
<i>Object Descriptions: Catalog Nos. 87–88</i>	180
Bibliography for Egyptian Essays	183

Alphabetic Writing

12. Invention and Development of the Alphabet. *Joseph Lam* 189
Object Descriptions: Catalog Nos. 89–94 196

Anatolian Hieroglyphs

13. Anatolian Hieroglyphic Writing. *Ilya Yakubovich* 203
Object Descriptions: Catalog Nos. 95–99 208

China

14. The Beginnings of Writing in China. *Edward L. Shaughnessy* 215
Object Description: Catalog Nos. 100–101 221

Mesoamerican Hieroglyphs

15. The Development of Maya Writing. *Joel Palka* 225
Object Description: Catalog No. 102 230

Concordance of Museum Registration Numbers

- Art Institute of Chicago..... 231
Semitic Museum, Harvard 231
Oriental Institute of the University of Chicago 231
Smart Museum of Art, University of Chicago..... 232
Vorderasiatisches Museum, Berlin 232
Yale Babylonian Collection..... 232

Checklist of the Exhibit 233**Illustration Credits** 235**Glossary of Linguistic Terms.** *Monica L. Crews* 237

4. THE RISE AND FALL OF CUNEIFORM SCRIPT IN HITTITE ANATOLIA

THEO VAN DEN HOUT

Why, when, and how does a society start to write? And when they do, from where do they get their script? In many cases these early steps toward literacy are shrouded in darkness, because when our earliest sources begin to flow, writing is already there and usually societies were not interested in recording for us the why, where, and how. The interesting thing about Anatolia is that we may be able to answer some of the above questions.

ANATOLIA: THE EARLY YEARS

When written sources begin to flow in Anatolia early in the second millennium BC, at first its society becomes visible only indirectly through the lens of a network of merchants from Assur. This commercial network consisted of several trading posts and hubs spread throughout central Anatolia and extended along some major routes all the way to their hometown in Assyria. With few interruptions this network lasted from about 2000 into the 1730s. The most important center was the city of Kanes (also known as Nesa). In their dealings with the local population and in contacts with their firms back home, these traders used their own Assyrian language written in a simple form of cuneiform script. It used few word-signs and comprised just over 100 signs with a syllabic value (e.g., *a*, *i*, *ku*, *id*, *tup*). The tablets have a very characteristic look with their rulings and the right slant of the signs (fig. 4.1). Over twenty thousand records have been found thus far.

The Assyrians lived in close proximity with the local Anatolians, they mingled and married, and there is even evidence for some level of bilingualism in the local population. Certain mistakes made in the Assyrian documents betray how sometimes local Anatolians would use the Semitic language and its script. They themselves mostly spoke the Indo-European languages Hittite and Luwian, others the non-Indo-European and non-Semitic Hattian. Yet

when the network came to an end and the merchants returned home for good, they took the language and the script with them, never to return. There is no evidence that the Anatolians ever felt the urge to use the script systematically for their own purposes, let alone to record their own languages.

One of the reasons the Anatolians do not seem to have been ready for a script of their own may be that in this period Anatolia formed no political unity. The area was a conglomeration of small independent and probably largely self-sufficient city-states in a mountainous landscape that favored

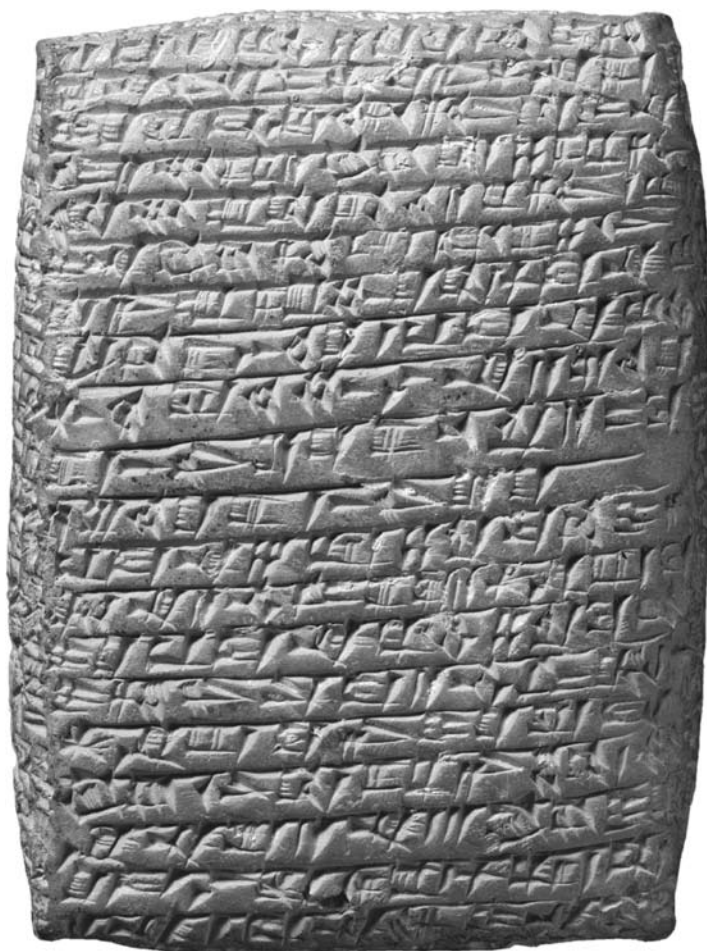
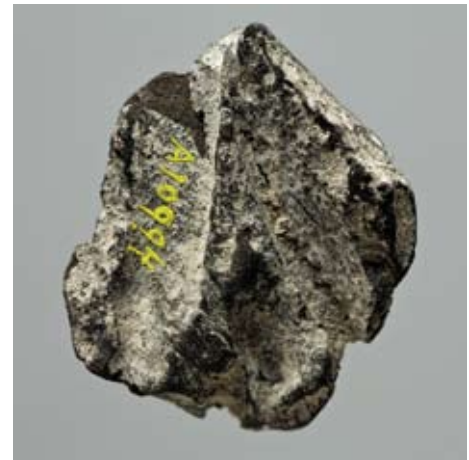


FIGURE 4.1. Old Assyrian clay tablet. Kanes, Turkey. 19th–18th century BC. OIM A2531



FIGURE 4.2. (a) Bulla with abstract shapes and (b) reverse suggesting it was used to seal a leather(?) bag. Clay. Alishar Höyük. 4.0 x 3.0 x 1.5 cm
OIM A10994



geographical isolation. With small local economies and no international relations to speak of, there was little need for long lines of communication. For their local administration they had developed a system of symbols that did not represent speech, but which could be used for surprisingly detailed and efficient bookkeeping. In this system a symbol, that is, an animal or a piece of vegetation, a ceramic shape, a geometric pattern, or other abstract looking design (fig. 4.2), probably stood for a person or a group of individuals, just as we might recognize an elephant or a donkey symbolizing a political party or just as we immediately associate an illegible scribble as the signature of a person we know.

The impression of that symbol on a lump of clay attached to a container with goods showed who had been responsible for filling the container or for taking goods out and closing it again most recently. This is best illustrated by the seal impressions found at the fourth-millennium BC site of Arslantepe near Malatya. It shows how all withdrawals from a store-room over what may have been the equivalent of a fiscal year or period could be followed in great detail, including who made them. Clay lumps or *bullae* with such symbols impressed in them have been found in many places in Anatolia, among them in Kanesh and the later Hittite capital Hattusa. The later hieroglyphic script used in Anatolia stands in the same tradition in that it draws on the same material surroundings for the inspiration of its symbols (see 13. *Anatolian Hieroglyphic Writing*, this volume). Such systems probably sufficed for the internal administration of most of the cities and towns in Anatolia.

The first-known effort to unite many of the hitherto independent settlements into a kingdom of sorts was made by Anitta, king of Kanesh around 1750, just before the end of the Assyrian presence in Anatolia. It may be no surprise then that he is the first local ruler we know of, who put up an inscription. Although the original has not been preserved, we have later copies in Hittite, but there is uncertainty as to whether it was originally written in that language or in Assyrian. Doubt is in order, because of a spearhead with the Assyrian inscription “Palace of Anitta, Great Prince.” Was this a first step toward some form of internal administration, using Assyrian cuneiform and language? A small clay document, likewise in Assyrian, with his name points in the same direction (fig. 4.3). It lists a number of dignitaries, the first among whom is “Anita, Prince,” who have appended their seal to some unnamed object.

This makes it likely that the publicly displayed inscription just mentioned likewise used the same medium. If this was indeed the beginning of using the Old Assyrian cuneiform by the local Anatolian government for internal purposes, it was nipped in

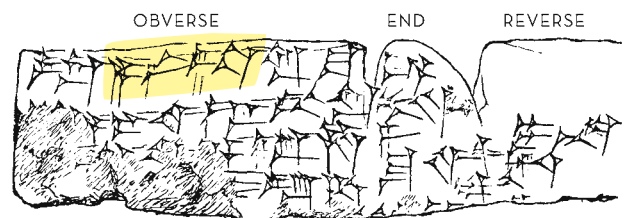


FIGURE 4.3. Anitta's name (yellow) on a small tablet from Alishar Höyük. Field no. b1600. Scale 1:1

the bud: in the time of Anitta the Assyrian network was already on the wane and when it came to its end, Anitta's short-lived kingdom and Anatolia reverted to their illiterate and oral ways. We have to assume that all those centuries since the Assyrians had started their trading the Anatolians observed

them using the cuneiform script but felt little to no need to adopt it systematically for themselves. Their own administrative system fully satisfied their needs and the collapse of Anitta's kingdom put an end to what may have been a first attempt at implementing the script.

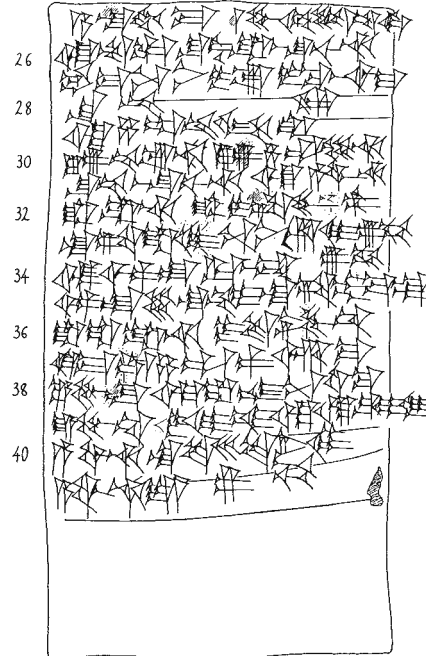
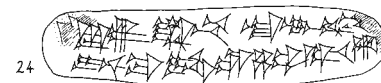
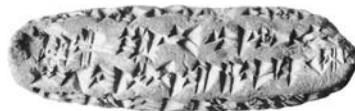
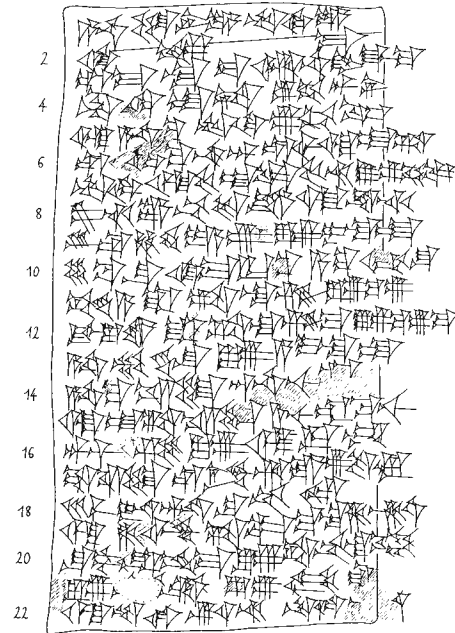


FIGURE 4.4. Letter in Syrian cuneiform script from the Hittite ruler Hattusili I to the Syrian ruler Tunip-tessub. Scale 1:1

THE BEGINNINGS OF A HITTITE STATE

Less than a century later the political landscape of Anatolia had thoroughly changed. Around 1650 Hattusa had become the capital of the young Hittite state under Hattusili I. With central Anatolia already in his power he focused his attention on northern Syria. Here lay the powerful kingdom of Yamhad with its capital Aleppo. A variant of (Semitic) Akkadian was spoken there and a different kind of cuneiform writing than the Old Assyrian one was used for state business. Upon entering the world of international diplomacy, Hattusili had to rely on foreign scribes if he wanted to correspond with his peers in Syria: a letter sent by him to a local Syrian ruler by the name of Tunip-tessub uses the local Syrian variant of Old Babylonian cuneiform *and* language and has come to down to us in almost pristine condition (fig. 4.4).

We also know he erected in Hattusa a gold statue — probably of himself — inscribed with his “manly deeds” over a period of five years. The statue has not been preserved but we do have a late copy of the text in both an Akkadian and a Hittite version. The entry for his second year runs as follows:




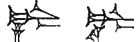
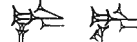













In the following year I went to (the city of) Alalakh and destroyed it. Thereafter I went to (the city of) Warsuwa, and from Warsuwa I went to (the city of) Ikakali. From Ikakali I went to (the city of) Tashiniya. I destroyed these lands, but I took their goods and filled my palace with goods. (Güterbock and Otten 1960, no. 2 i 15–21)

It so happens that the site of Alalakh, that is, the archaeological level (Level VII) that Hattusili claims to have destroyed, has yielded over 300 tablets. Hattusili’s statement about his campaign and the proven use by him of the Syrian script and dialect supports the traditional view that it was he who re-introduced cuneiform in Anatolia. But it may not have been one campaign of a single king that achieved this. Not only Hattusili but also his grandson and immediate successor Mursili I extensively campaigned there. Likewise, it may also have been Aleppo or some other site in the Syrian area that formed the inspiration for the later typical Hittite variant of cuneiform. However, Alalakh is practically the only site where cuneiform tablets from this area and period have come to light and its script is very similar to the later Hittite one.

The Syrian cuneiform for which Alalakh is representative ultimately came from Babylon and shows the typical traits of a peripheral area that is no longer subject to the standardizing pressures of the center. Syrian scribes developed certain variant sign forms that were distinctly non-Babylonian. As table 4.1 below shows, the new shapes even became the most popular: the newer variants appear on average in 75 percent of the cases.

Judging by the extant evidence, cuneiform writing in the days of Hattusili I and Mursili I was a relatively rare phenomenon, perhaps reserved for special occasions. We already saw Hattusili’s diplomatic correspondence with a local Syrian king and the propagandistic inscription on his own statue. Besides these we have in a late thirteenth century

TABLE 4.1. Comparison of Babylonian standard and Syrian (Alalakh) less and most frequent sign forms

Sign Value	Babylonian Standard	Alalakh	
		Babylonian Standard Forms (ca. 25%)	New Syrian Sign Forms (ca. 75%)
AL			
AZ/UK			
IK			
LI			
QA			
SAR			

copy his so-called Testament in both Akkadian and Hittite. In it he instructed his entourage to obey and support his grandson Mursili and toward the end of the text he stipulated:

My words, too, I have given you and let them read this [tabl]et out loud to you every month so that you will instill my [wor]ds and my wisdom in (your) heart! (Weber 1921, no. 16 iii 56–58)

This shows how he was already aware of the long-term use of script: by having his advice written down, his words were sure to outlast him and his wisdom would be preserved for ever. As said, only the letter to Tunip-tessub (in Akkadian) is a contemporary document, the inscription on the statue and the Testament we have only in late copies in both Akkadian and Hittite. Some rare instances of writing from their successors are also preserved in late copies only. Why do we see so much Akkadian in these early sources?

Comparisons with societies that adopt scripts from others with a different language show that writing initially is done in the language of the other society. This is due to the fact that the “imported” scribes usually are not versed in the language of their host society and teach the first local generation in their own language. Only gradually do they start experimenting to write in the local language and the transition can last one or more generations. One of the oldest contemporary documents from the days of Hattusili or Mursili written in the Syrian script and in the Akkadian language already contains a sentence in Hittite and a few isolated Hittite words inserted in the text.

The difficulty of adapting a foreign script used to write a foreign language to one’s own is not to be underestimated. Some of the oldest texts in Hittite betray through uncommon and irregular spellings of words the struggle of early scribes to express the sounds of their mother tongue by means of the foreign script. Where the two languages, Akkadian and Hittite, sounded alike, there was no problem: the same cuneiform signs could be used. But where there were real differences, creative solutions had to be found. Akkadian, for instance, distinguished between voiced and voiceless consonants, like the difference between (voiced) *b* and (voiceless) *p* in English *bet* vs. *pet*. Hittite, on the other hand, did not: most probably it had within a word an opposition between so-called “short” and “long”

consonants. A long *t*, for instance, is a *t* where the tongue is held against the upper teeth just a little longer before it is released than in a short one. English does not have this, but one can hear such a long *t* in Italian *otto* “eight.” Using the Syrian cuneiform, Hittite scribes eventually decided to simply ignore the voiced/voiceless contrast that came with the script, but spelled short consonants single and long ones double: compare *p* vs. *pp* in Hittite *apa* “that one” vs. *appa* “back, behind.”

Despite its relatively modest volume, the writing activity in the century between Hattusili and Mursili (ca. 1650/1600 BC) and king Telipinu (late sixteenth century) was enough to sustain a



FIGURE 4.5. Bronze ax bearing a graffito of King Ammuna. The inscription is in Akkadian using Hittite sign forms. Scale of photograph 1:2

development from the originally Syrian variant of the cuneiform script known from Alalakh to what eventually became the typical Hittite cuneiform variant. In this new Hittite script, the 75 percent to 25 percent ratio between the new peripheral Syrian variants vis-à-vis the traditional Old Babylonian shapes (see above table 4.1) that we know from Alalakh became even more pronounced: the peripheral variants became the typical Hittite ones to the virtual extinction of the Babylonian forms, although they may never have been given up completely. This development is understandable from the point of view of the new local generations. Their Syrian teachers brought in the mix of standard and newly developed forms, but having to learn already a few hundred cuneiform signs, the local students were probably not keen to memorize more than one shape per sign.

The end of this development may already have been reached by around 1550 BC. We have a graffito on a bronze ax of king Ammuna from that period (fig. 4.5). It is still in Akkadian but the inscription already shows the familiar Hittite sign forms. The slightly later reign of king Telipinu toward the end of the sixteenth century probably served as a real catalyst. He issued an unprecedented range of official documents, from land grants, the first diplomatic treaty, a new “constitution” to a fiscal reform. It is very well possible that also the first codification of Hittite Laws into two series was written down at his behest. Again, most of these documents were still written in Akkadian, but the law collection was in the Hittite language only.

FROM AKKADIAN TO HITTITE

After this, Akkadian was used less and less and the fifteenth century was the last one to see internal records written in that language. By the time Tudhaliya I ascended the throne around 1420, Akkadian was restricted to international diplomatic documents and all internal record keeping was done in Hittite exclusively (fig. 4.6).

By this time, too, a professional chancellery must have emerged and the growing number of records both produced in the capital and received from the far corners of what had become the Hittite “Empire” prompted an efficient organization of

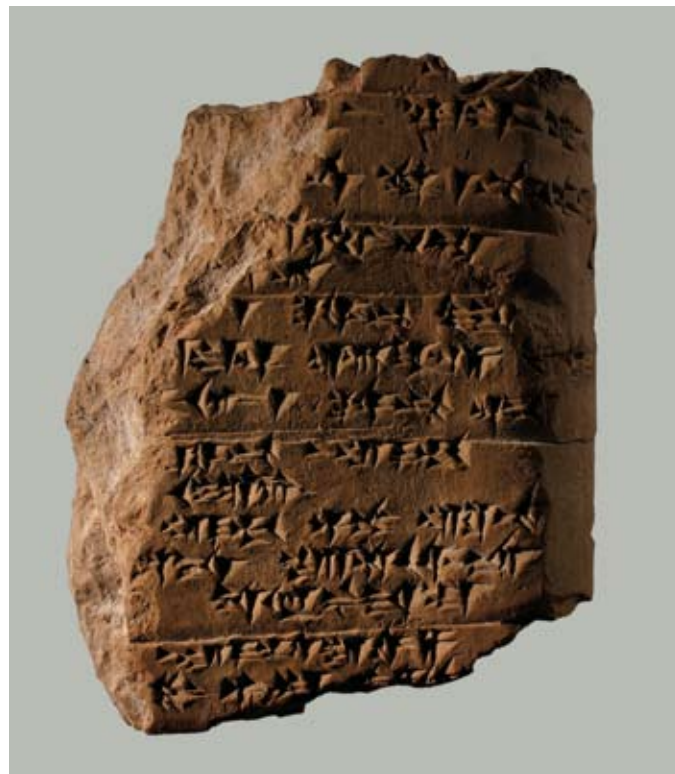


FIGURE 4.6. Fragment of a Hittite tablet. Hattusa.
Scale 1:1. OIM A6004

those records. A lot of tablets concerning daily administration of incoming and outgoing goods and services to the state were discarded regularly and after a brief period. Others had a more long-term relevance and some, especially those of a legal nature, were stored indefinitely. Tablets that got damaged were copied as were certain compositions of which more than one copy was deemed necessary. Initially, in the time when writing was still something special, tablets may have been kept in temples and were stored alongside other “treasures” as was the practice in church treasuries in early medieval Western Europe. But with the increasing production of records a system developed with a so-called record center atop the royal acropolis (Turkish *Büyükkale*) for all documents considered of longer-term importance, and at least two scribal centers in the lower city near some of the gates and the endless storerooms where all goods received were packed in chests and baskets or poured into huge pithoi and underground silos (fig. 4.7).

The further development of the Hittite cuneiform scripts illustrates the vicissitudes of the empire that around 1400 had grown out of the former



FIGURE 4.7. Storage pithoi at Hattusa near Temple 1

kingdom. The script used in the fifteenth century had evolved in relative isolation and had weeded out most “unnecessary” variants of the Syrian cuneiform it had adopted. But now that the empire had taken its rightful place alongside the other major powers of Egypt, Babylon, Assyria, and Mittani, it became increasingly drawn into the international diplomatic world where the Babylonian language and script were the standard. It may have been through these increased contacts that the standard Babylonian forms gained new prominence in Hittite society. What had once been the “new” forms from the peripheral Syrian scribal milieu now became the “old” forms in the Hittite system, and the original old Babylonian standard shapes once again became fashionable (table 4.2).

TABLE 4.2. Sign values for “old” and “new” shapes in Hittite cuneiform

Sign Value	Hittite “Old” Shapes	Hittite “New” Shapes
AL		
AZ/UK		
IK		
LI		
QA		
SAR		

By the late thirteenth century toward the end of the empire the “new” shapes all but eclipsed the “old” ones. Judged by the fact that, for instance, “old” LI was used in certain texts in a royal name only, shows how they could be felt as old fashioned, that is, hearkening back to older, long-established scribal traditions, and therefore also festive or solemn.

THE END

The Hittite language and the cuneiform script were the official medium of the empire’s internal record keeping, but the Hittite language’s dominant status did not necessarily match the linguistic make-up of the country. Because of its huge mountain ranges and rugged terrain, Anatolia was riddled with isolated areas, each with its own dialect or language. The most important of these was Luwian, a sister language of Hittite. Over the centuries the parts of the population that spoke Luwian probably increased, to the extent that by the thirteenth century most of the population spoke Luwian and Hittite may no longer even have been anybody’s mother tongue. Anatolian Hieroglyphs had reached the full status of a script by 1400 BC and they became the preferred medium for the Luwian language. Hittite kings employed the hieroglyphic script and Luwian language for ever lengthier and mostly propagandistic inscriptions meant for the population at large. Meanwhile, the scribes in the empire’s offices continued to compose annals, prayers, depositions, oracle reports, cultic scenarios, and the like in Hittite and cuneiform. This meant, however, that once the empire’s power structure broke down around 1200, the support for both the Hittite language and its cuneiform script fell away and they disappeared without a trace.

CONCLUSIONS

Coming back to the questions posed at the beginning, why, when, and how a society starts to write, we can say that the rise of the Hittite cuneiform script depended on the need the ruling class perceived and on the availability of a script. Initially, at least, there was little internal administrative need

and their “choice” of a script was not motivated by efficiency or pedagogical principles. For a period of about two centuries they lived in close proximity and daily interaction with the Assyrian merchants who used writing intensively. Even though some Anatolians mastered both their language and the script, when the Assyrians left, nothing happened. The Assyrian writing system, despite its relative simplicity, was not adopted. About a century later, around 1650 BC, the Hittites settled for the much more complex Syrian variant of cuneiform. It was the need that came with a state that grew too big for purely oral communication and for its eagerness for international prestige that compelled them to adopt a script of their own. In keeping with other societies the Hittites started writing in the language that came with the script they adopted and only gradually started experimenting with their own language.

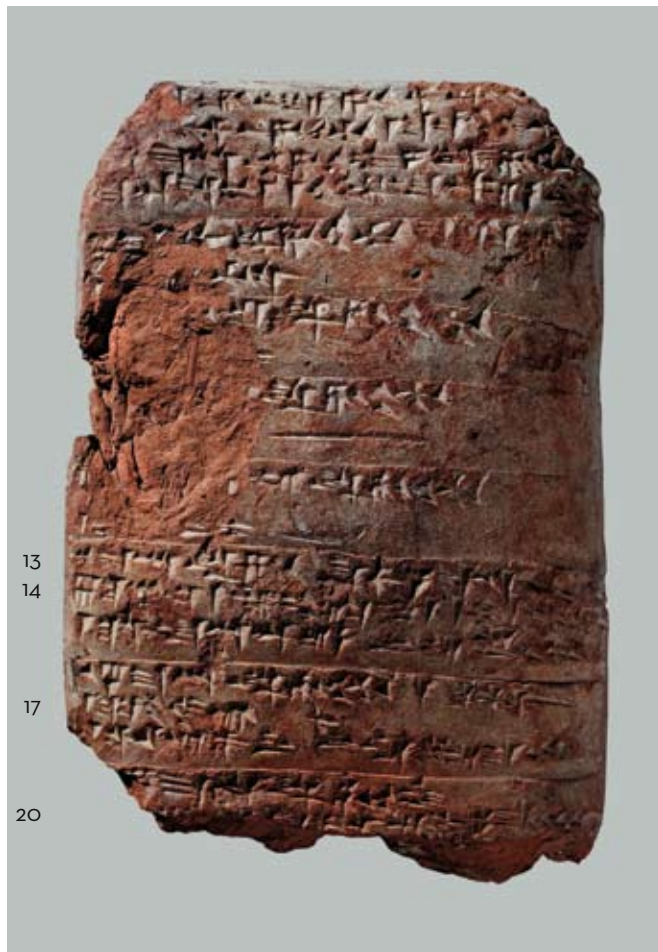
The fall of the Hittite cuneiform script was a question of political sustainability. The cuneiform

script and the Hittite language had become the official medium for all internal and external communication of the Hittite state and its ruling elite. The use of the Akkadian language was restricted to diplomatic purposes. However, due to political developments the linguistic make-up of Anatolia changed and Hittite became an increasingly artificial language that ultimately was nobody’s mother tongue. The consequence of this was that when around 1200 BC the state disintegrated, the bottom fell out from under the system that had supported the Hittite language with its cuneiform script: with the language the cuneiform script vanished for ever from Anatolia.

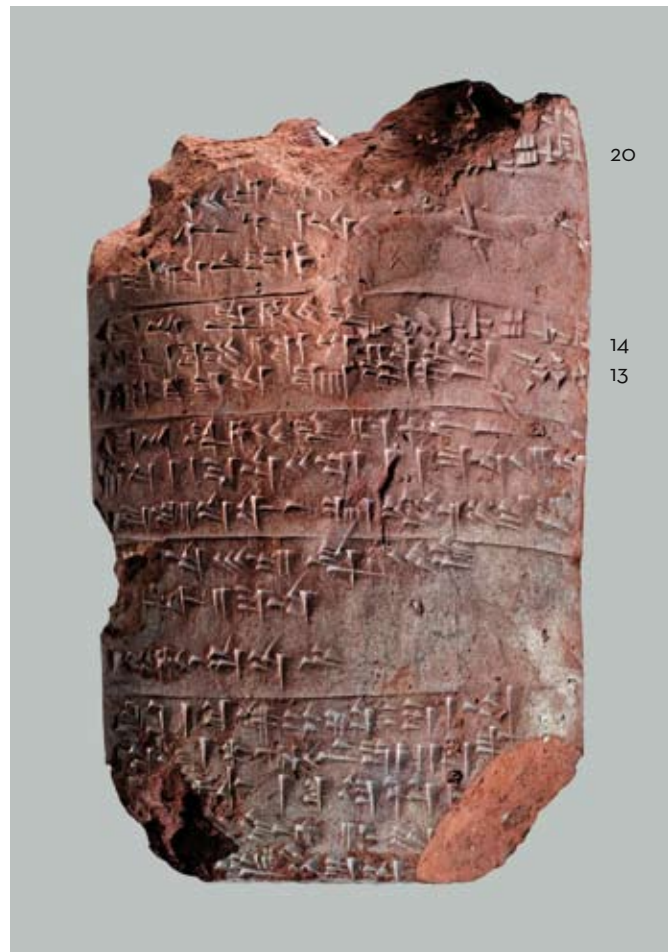
* * * * *

For the symbols used at Arslantepe, see Frangipane 2007. For an extended version of the history of Hittite cuneiform, see van den Hout forthcoming. For further reading, see Bryce 2002 and 2005.

OBJECT DESCRIPTION: CATALOG NO. 63



63, obverse



63, reverse

63. HITTITE INVENTORY OF WOOL AND WOOLEN GARMENTS

Clay
Thirteenth century BC
Turkey, Hattusa
11.0 x 7.0 x 3.2 cm
NBC 3842

This tablet contains a list of tax payments by twelve individuals to the Hittite state. The text dates to the thirteenth century BC. All payments are made in dyed wool and ready-made textiles. Divided into twelve sections or paragraphs by horizontal lines, each paragraph lists the specific

payments of a single person. The last line of each paragraph gives the name of the taxpayer preceded by the vertical wedge Υ marking male names. Sometimes the name is followed by a city name for further identification.

On the obverse (compare lines 13–14, 20) the scribe sometimes uses the right edge to finish the last word of a line. In obverse line 14, however, although already on the right edge, he squeezes in an entire extra tax item and ends up writing on the reverse. It is unclear whether he was reluctant to devote a whole extra line to this one payment before the name of the tax payer or if he had forgotten it initially and was forced to add it afterwards. Since elsewhere in the text (compare



63, top

obverse line 17, reverse line 13) he does give the last tax item its own line, the latter may be the case.

The final paragraph gives the total of all payments listed on the tablet and continues on to the lower edge of the reverse. TvdH

PUBLISHED

Beckman and Hoffner 1985, Finkelstein 1956.



63, side

BIBLIOGRAPHY FOR CUNEIFORM ESSAYS

- Abusch, Tzvi
 1981 "Notes on a Pair of Matching Texts: A Shepherd's Bulla and an Owner's Receipt." In *In Honor of Ernest R. Lacheman on His Seventy-fifth Birthday, April 29, 1981*, edited by M. A. Morrison and D. I. Owen, pp. 1-9. Studies on the Civilization and Culture of Nuzi and the Hurrians 1. Winona Lake: Eisenbrauns.
- Algaze, Guillermo
 1989 "The Uruk Expansion: Cross-cultural Exchange in Early Mesopotamian Civilization." *Current Anthropology* 30: 571-608.
 1993 *The Uruk World System: The Dynamics of Expansion of Early Mesopotamian Civilization*. Chicago: University of Chicago Press.
- Alizadeh, Abbas
 2006 *The Origins of State Organizations in Prehistoric Highland Fars, Southern Iran: Excavations at at Tall-e Bakun*. Oriental Institute Publications 128. Chicago: The Oriental Institute.
- Amiet, Pierre
 1966 "Il y a 5000 ans, les Elamites inventaient l'écriture." *Archeologia* 12: 16-23.
- Archi, Alfonso
 1992 "Transmission of the Mesopotamian Lexical and Literary Texts from Ebla." In *Literature and Literary Language at Ebla*, edited by P. Fronzaroli, pp. 1-40. Florence: Dipartimento di Linguistica Università di Firenze.
- Baker, Heather D.
 2004 "OIP 122 12: Some Remarks." *Nouvelles Assyriologiques Brèves et Utilitaires* 2004/4, no. 90.
- Beckman, Gary, and Harry A. Hoffner, Jr.
 1985 "Hittite Fragments in American Collections." *Journal of Cuneiform Studies* 37/1: 1-60.
- Biggs, Robert D.
 1967 "Semitic Names in the Fara Period." *Orientalia* 36: 55-66.
- Bonechi, Marco, and Jean-Marie Durand
 1992 "Oniromancie et magie à Mari à l'époque d'Ébla." In *Literature and Literary Language at Ebla*, pp. 151-62, edited by P. Fronzaroli.
- Florence: Dipartimento di Linguistica Università di Firenze.
- Borger, Rykle
 2004 *Mesopotamisches Zeichenlexikon*. Münster: Ugarit-Verlag.
- Bryce, Trevor
 2002 *Life and Society in the Hittite World*. New York: Oxford University Press.
 2005 *Kingdom of the Hittites*. Oxford: Oxford University Press.
- Buccellati, Giorgio
 1981 "The Origin of Writing and the Beginning of History." In *The Shape of the Past: Studies in Honor of Franklin D. Murphy*, edited by Giorgio Buccellati and Charles Speroni, pp. 3-13. Los Angeles: University of California Press.
 1996 *A Structural Grammar of Babylonian*. Wiesbaden: Harrassowitz.
- Burnstein, Stanley M.
 1978 *The Babyloniaca of Berossus*. Sources and Monographs on the Ancient Near East 1. Malibu: Undena.
- Charpin, Dominique
 1987 "Tablettes présargoniques de Mari." *Mari, annales de recherches interdisciplinaires* 5: 65-127.
 1998 "Les textes cunéiformes de Mari à l'époque proto-dynastique." In *En Syrie: Aux origines de l'écriture*, edited by P. Talon and K. Van Lerberghe, pp. 53-56. Leuven: Brepols.
- Civil, Miguel
 1969 *The Series lú = ša and Related Texts*. Materials for the Sumerian Lexicon 12. Rome: Pontificium Institutum Biblicum.
 1973 "The Sumerian Writing System: Some Problems." *Orientalia* 42: 21-34.
 1982 "Studies on Early Dynastic Lexicography 1." *Oriens Antiquus* 21: 1-26.
 1984 "Bilingualism in Logographic Written Languages: Sumerian in Ebla." In *Il Bilinguismo a Ebla*, edited by L. Cagni, pp. 75-97. Naples: Istituto Universitario Orientale.
 1992 "Cuneiform." In *International Encyclopedia of Linguistics*, Volume 1, edited by W. Bright, pp.

- 322–25. New York and Oxford: Oxford University Press.
- Collon, Dominique
- 2005 *First Impressions. Cylinder Seals in the Ancient Near East*. London: British Museum Press.
- Cooper, Jerrold
- 1973 “Sumerian and Akkadian in Sumer and Akkad,” *Orientalia* NS 42: 239–46.
- 1996 “Mesopotamian Cuneiform: Sumerian and Akkadian.” In *The World’s Writing Systems*, edited by P. T. Daniels and W. Bright, pp. 37–57. New York and Oxford: Oxford University Press.
- 1997 “Sumerian and Akkadian.” In *The World’s Writing Systems*, edited by P. Daniels and W. Bright, pp. 37–59. New York and Oxford: Oxford University Press.
- 1999 “Sumerian and Semitic Writing in Most Ancient Syro-Mesopotamia.” In *Languages and Cultures in Contact: At the Crossroads of Civilizations in the Syro-Mesopotamian Realm*, edited by K. Van Lerberghe and G. Voet, pp. 61–77. Proceedings of the 42nd Rencontre Assyriologique Internationale. Leuven: Uitgeverij Peeters en Departement Oosterse Studies.
- 2004 “Babylonian Beginnings: The Origin of the Cuneiform Writing System in Comparative Perspective.” In *The First Writing: Script Invention as History and Process*, edited by S. D. Houston, pp. 71–99. Cambridge: Cambridge University Press.
- Delougaz, Pinhas, and Helene J. Kantor
- 1996 *Chogha Mish*, Volume 1: *The First Five Seasons of Excavations, 1961–1971*, edited by Abbas Alizadeh. Oriental Institute Publications 101. Chicago: The Oriental Institute.
- Dolce, Rita
- 1978 *Gli intarsi Mesopotamici dell’epoca protodinastica*. Serie Archeologica 23. Rome: Istituto di Studi del Vicino Oriente.
- Durand, Jean-Marie
- 1985 “La situation historique des *šakkanakku*: Nouvelle approche.” *Mari, annales de recherches interdisciplinaires* 4: 147–72.
- 1992 “Unité et diversité au Proche-Orient à l’époque amorrite.” In *La circulation des biens, des personnes et des idées dans le Proche-Orient ancien*, edited by D. Charpin and F. Joannès, pp. 97–128. Paris: Éditions Recherches sur les Civilisations.
- Edzard, Dietz Otto
- 1994 “Ebla ou la grande surprise de l’histoire du Proche-Orient ancien.” *Akkadica* 88: 18–29.
- 1997 *Gudea and His Dynasty*. The Royal Inscriptions of Mesopotamia, Early Periods, Volume 3/1. Toronto: University of Toronto Press.
- 1998 “Le développement de l’écriture cunéiforme: le fonctionnement de l’écriture sumérienne.” In *En Syrie: Aux origines de l’écriture*, edited by P. Talon and K. Van Lerberghe, pp. 33–39. Leuven: Brepols.
- Englund, Robert K.
- 1993 Review of *Before Writing*, Volume 1: *From Counting to Cuneiform*, by D. Schmandt-Besserat. *Science* 260: 1670–671.
- 1996 *Proto-Cuneiform Texts from Diverse Collections*. Materialien zu den frühen Schriftzeugnissen des Vorderen Orients 4. Berlin: Gebr. Mann.
- 1998 “Texts from the Late Uruk Period.” In *Mesopotamien: Späturuk-Zeit und Frühdynastische Zeit*, edited by J. Bauer, R. K. Englund, and M. Krebernik, pp. 15–233. Orbis Biblicus et Orientalis 160/1. Freiburg: Universitätsverlag; Göttingen: Vandenhoeck and Ruprecht.
- 2004 “The State of Decipherment of Proto-Elamite.” In *The First Writing: Script Invention as History and Process*, edited by S. D. Houston, pp. 100–49. Cambridge: Cambridge University Press.
- 2009 “The Smell of the Cage.” *Cuneiform Digital Library Journal* 2009/4: 1–27.
- Englund, Robert K., and Jean-Pierre Grégoire
- 1991 *The Proto-Cuneiform Texts from Jemdet Nasr*. Materialien zu den frühen Schriftzeugnissen des Vorderen Orients 1. Berlin: Gebr. Mann.
- Englund, Robert K., and Hans J. Nissen
- 1993 *Die lexikalischen Listen der archaischen Texte aus Uruk*. Ausgrabungen der Deutschen Forschungsgemeinschaft in Uruk-Warka 13. Berlin: Gebr. Mann.
- 1994 *Archaic Administrative Texts from Uruk: The Early Campaigns*. Archaische Texte aus Uruk 5. Ausgrabungen der Deutschen Forschungsgemeinschaft in Uruk-Warka 15. Berlin: Gebr. Mann.
- 2005 *Archaische Verwaltungstexte aus Uruk: Vorderasiatisches Museum II*. Archaische Texte aus Uruk 6. Ausgrabungen der Deutschen Forschungsgemeinschaft in Uruk-Warka 16. Berlin: Gebr. Mann.
- Falkenstein, Adam
- 1936 *Archaische Texte aus Uruk*, Volume 1. Leipzig: Otto Harrassowitz.

- Finet, André
- 1979 "Bilan provisoire des fouilles belges du Tell Kan-nas." In *Archaeological Reports from the Tabqa Dam Project, Euphrates Valley Syria*, edited by D. N. Freedman, pp. 79-96. Annual of the American Schools of Oriental Research 44. New Haven: American Schools of Oriental Research.
- Finkelstein, J. J.
- 1956 "A Hittite *mandattu*-Text." *Journal of Cuneiform Studies* 10/3: 101-05.
- Frangipane, Marcella, et al., editors
- 2007 *Arslantepé – Cretulae: An Early Centralised Administrative System before Writing*. Rome: Università di Roma "La Sapienza."
- Frankfort, Henri
- 1939 *Cylinder Seals: A Documentary Essay on the Art and Religion of the Ancient Near East*. London: MacMillan.
- 1955 *Stratified Cylinder Seals from the Diyala Region*. Oriental Institute Publications 72. Chicago: University of Chicago Press.
- Friberg, Jöran
- 1978 *The Early Roots of Babylonian Mathematics*, Volume 1. Göteborg: Göteborg University.
- 1979 *The Early Roots of Babylonian Mathematics*, Volume 2. Göteborg: Göteborg University.
- 1997/98 "Round and Almost Round Numbers in Proto-literate Metro-mathematical Field Texts." *Archiv für Orientforschung* 44/45: 1-58.
- Gelb, Ignace J.
- 1952 *A Study of Writing: The Foundations of Grammatology*. Chicago: University of Chicago Press.
- Glassner, Jean-Jacques
- 2003 *The Invention of Cuneiform: Writing in Sumer*, translated by Z. Bahrani and M. Van De Mieroop. Baltimore: Johns Hopkins University Press.
- Gragg, Gene B.
- 1996 "Mesopotamian Cuneiform, Other Languages." In *The World's Writing Systems*, edited by P. Daniels and W. Bright, pp. 58-72. New York and Oxford: Oxford University Press.
- Green, Margaret W.
- 1980 "Animal Husbandry at Uruk in the Archaic Period." *Journal of Near Eastern Studies* 39: 1-35.
- 1981 "The Construction and Implementation of the Cuneiform Writing System." *Visible Language* 15: 345-72.
- 1986 "Archaic Uruk Cuneiform." *American Journal of Archaeology* 90: 464-66.
- Green, Margaret W., and Hans J. Nissen
- 1987 *Zeichenliste der archaischen Texte aus Uruk*. Ausgrabungen der Deutschen Forschungsgemeinschaft in Uruk-Warka 11. Berlin: Gebr. Mann.
- Greengus, Samuel
- 1979 *Old Babylonian Tablets from Isbchali and Vicinity*. Publications de l'Institut historique-archéologique néerlandais de Stamboul 44. Istanbul: Nederlands Historisch-Archaeologisch Instituut.
- Güterbock, Hans G., and Heinrich Otten
- 1960 *Keilschrifttexte aus Boghazköi*, Volume 10. Berlin: Gebr. Mann.
- Haayer, G.
- 1986 "Languages in Contact: The Case of Akkadian and Sumerian." In *Scripta Signa Vocis: Studies about Scripts, Scriptures, Scribes and Languages in the Near East Presented to J. H. Hespers by His Pupils, Colleagues and Friends*, edited by H. L. J. Vantiphout et al., pp. 77-84. Groningen: Egbert Forsten.
- Hackman, George G.
- 1958 *Sumerian and Akkadian Administrative Texts*. Babylonian Inscriptions in the Collection of James B. Nies 8. New Haven: Yale University Press.
- Hallock, Richard T.
- 1940 *The Chicago Syllabary and the Louvre Syllabary AO 7661*. Assyriological Studies 7. Chicago: University of Chicago Press.
- Hasselbach, Rebecca
- 2005 *Sargonic Akkadian: A Historical and Comparative Study of the Syllabic Texts*. Wiesbaden: Harrassowitz.
- Hilgert, Markus
- 1998 *Cuneiform Texts from the Ur III Period in the Oriental Institute*, Volume 1: *Drehem Administrative Documents from the Reign of Šulgi*. Oriental Institute Publications 115. Chicago: The Oriental Institute.
- Huehnergard, John
- 1997 "Akkadian." In *The Oxford Encyclopedia of Archaeology in the Near East*, edited by E. Meyers, pp. 44-49. New York and Oxford: Oxford University Press.

Ismail, Farouk; Walther Sallaberger; Phillippe Talon; and Karel Van Lerberghe

- 1996 *Administrative Documents from Tell Beydar (Seasons 1993–1995)*. Subartu 2. Brussels: Brepols.

Johnson, G.

- 1988–89 “Late Uruk in Greater Mesopotamia: Expansion or Collapse?” *Origini* 14: 595–613.

Jordan, Julius

- 1931 *Zweiter vorläufiger Bericht über die von der Notgemeinschaft der Deutschen Wissenschaft in Uruk unternommenen Ausgrabungen*. Philologisch-historische Klasse 4. Berlin: Akademie der Wissenschaften.

Krebernik, Manfred

- 1994 Review of *Zeichenliste der archaischen Texte aus Uruk*, by M. Green and H. Nissen. *Orientalistische Literaturzeitung* 89: 380–86.
- 2007 “Zur Entwicklung des Sprachbewusstseins im Alten Orient.” In *Das geistige Erfassen der Welt im Alten Orient: Sprache, Religion, Kultur und Gesellschaft*, edited by C. Wilcke, pp. 39–61. Wiesbaden: Harrassowitz.

Krecher, Joachim

- 1992 “UD.GAL.NUN versus ‘Normal’ Sumerian: Two Literatures or One?” In *Literature and Literary Language at Ebla*, edited by P. Fronzaroli, pp. 285–304. Florence: Dipartimento di Linguistica Università di Firenze.

Krispijn, Theo

- 1991–92 “The Early Mesopotamian Lexical Lists and the Dawn of Linguistics.” *Jaarbericht “Ex Oriente Lux”* 32: 12–22.

Labat, René

- 1995 *Manuel d'épigraphie akkadienne (signes, syllabaire, idéogrammes)*. Paris: Paul Geuthner. 1st edition 1948.

Lieberman, Stephen J.

- 1980 “Of Clay Pebbles, Hollow Clay Balls, and Writing: A Sumerian View.” *American Journal of Archaeology* 84: 339–58.

Liverani, Mario

- 2006 *Uruk: The First City*, edited and translated by Z. Bahrani and M. Van De Mieroop. London: Equinox.

Luckenbill, Daniel D.

- 1917 “The Chicago Syllabary.” *American Journal of Semitic Languages and Literatures* 33: 169–99.

Michalowski, Piotr

- 1980 “Sumerian as an Ergative Language,” *Journal of Cuneiform Studies* 32: 86–103.
- 1987 “Language, Literature and Writing at Ebla.” In *Ebla 1975–1985: Dieci anni di studi linguistici e filologici*, edited by L. Cagni, pp. 165–75. Dipartimento di Studi Asiatici, Series Minor 27. Naples: Istituto Universitario Orientale.
- 1990 “Early Mesopotamian Communicative Systems: Art, Literature, and Writing.” In *Investigating Artistic Environments in the Ancient Near East*, edited by A. C. Gunter, pp. 53–69. Washington, DC, and Madison: Arthur M. Sackler Gallery, Smithsonian Institution.
- 1994 “Writing and Literacy in Early States: A Mesopotamianist Perspective.” In *Literacy: Interdisciplinary Conversations*, edited by D. Keller-Cohen, pp. 49–70. Cresskill: Hampton.
- 1996 “Mesopotamian Cuneiform: Origin.” In *The World's Writing Systems*, edited by P. T. Daniels and W. Bright, pp. 33–36. New York and Oxford: Oxford University Press.
- 1998 “L'adaptation de l'écriture cunéiforme à l'akkadien.” In *En Syrie: Aux origines de l'écriture*, edited by P. Talon and K. Van Lerberghe, pp. 41–47. Leuven: Brepols.
- 2008 “Sumerian.” In *The Ancient Languages of Mesopotamia, Egypt, and Aksum*, edited by R. Woodard, pp. 6–46. Cambridge: Cambridge University Press.

Milano, Lucio

- 1998 “La diffusion de l'écriture en Syrie: Ebla.” In *En Syrie: Aux origines de l'écriture*, edited by P. Talon and K. Van Lerberghe, pp. 57–59. Leuven: Brepols.

Nissen, Hans J.

- 1966 *Zur Datierung des Königsfriedhofes von Ur: Unter besonderer Berücksichtigung der Stratigraphie der Privatgräber*. Bonn: Rudolf Habelt.
- 1977 “Aspects of the Development of Early Cylinder Seals.” In *Seals and Sealing in the Ancient Near East*, edited by M. Gibson and R. Biggs, pp. 15–24. Bibliotheca Mesopotamica 6. Malibu: Undena Publications.
- 1986 “The Archaic Texts from Uruk.” *World Archaeology* 17: 317–34.
- 1988 *The Early History of the Ancient Near East 9000–2000 B.C.*, translated by E. Lutzeier with K. J. Northcott. Chicago: University of Chicago Press.
- 1993 *Die lexikalischen Listen der archaischen Texte aus Uruk*. Archaische Texte aus Uruk 3. Ausgrabun-

- gen der Deutschen Forschungsgemeinschaft in Uruk-Warka 13. Berlin: Gebr. Mann.
- 1998 "L'invention de l'écriture cunéiforme: Les tablettes archaïques d'Uruk." In *En Syrie: Aux origines de l'écriture*, edited by P. Talon and K. Van Lerberghe, pp. 21–31. Leuven: Brepols.
- 2001 "Cultural and Political Networks in the Ancient Near East in the Fourth and Third Millennia BC." In *Uruk Mesopotamia and Its Neighbors: Cross-cultural Interactions in the Era of State Formation*, edited by M. Rothman, pp. 149–80. Santa Fe: School of American Research Press.
- Nissen, Hans J.; Peter Damerow; and Robert K. Englund
- 1990 *Frühe Schrift und Techniken der Wirtschaftsverwaltung im alten Vorderen Orient: Informationsspeicherung und -verarbeitung vor 5000 Jahren*. Franzbecker: Braunschweig.
- 1993 *Archaic Bookkeeping: Early Writing and Techniques of the Economic Administration in the Ancient Near East*. Chicago: University of Chicago Press. Translation of Nissen, Damerow, and Englund 1990.
- Oppenheim, A. Leo
- 1959 "On an Operational Device in Mesopotamian Bureaucracy." *Journal of Near Eastern Studies* 18: 121–28.
- Pettinato, Giovanni
- 1981 *Testi lessicali monolingui della biblioteca L. 2769*. Materiali epigrafici di Ebla 3. Naples: Istituto Universitario Orientali di Napoli.
- 2003 "Le lingue semitiche di Ebla, Mari e Tell Beydar nel panorama linguistico del Vicino Oriente Antico del III millennio a.C." In *Semitic and Assyriological Studies Presented to Pelio Fronzaroli by Pupils and Colleagues*, edited by A. Catagnoli and C. Picchi, pp. 520–31. Wiesbaden: Harrassowitz.
- Pittman, Holly
- 1994a *The Glazed Steatite Glyptic Style: The Structure and Function of an Image System in the Administration of Protoliterate Mesopotamia*. Berliner Beiträge zum Vorderen Orient 16. Berlin: Dietrich Reimer.
- 1994b "Towards an Understanding of the Role of Glyptic Imagery in the Administrative Systems of Proto-literate Greater Mesopotamia." In *Archives Before Writing* (Proceedings of the International Colloquium, Oriolo Romano, October 23–25, 1991), edited by P. Ferioli, E. Fiandra, G. G. Fissore, M. Frangipane, pp. 177–206. Turin: Ministero per i Beni Culturali e Ambientali Ufficio Centrale per i Beni Archivistici.
- Pollock, Susan
- 1999 *Ancient Mesopotamia: The Eden that Never Was*. Cambridge: Cambridge University Press.
- Porada, Edith
- 1977 "Of Professional Seal Cutters and Nonprofessionally Made Seals." In *Seals and Sealing in the Ancient Near East*, edited by M. Gibson and R. Biggs, pp. 7–14. Bibliotheca Mesopotamica 6. Malibu: Undena Publications.
- Reiner, Erica
- 1966 *A Linguistic Analysis of Akkadian*. Janua Linguarum, Series Practica 21. The Hague: Mouton.
- Sachs, Abraham
- 1976 "The Latest Datable Cuneiform Tablets." In *Kramer Anniversary Volume: Cuneiform Studies in Honor of Samuel Noah Kramer*, pp. 376–98, edited by B. Eichler. Alter Orient und Altes Testament 25. Neukirchen-Vluyn: Neukirchen.
- Sallaberger, Walther
- 1998 "L'écriture cunéiforme à Tell Beydar: Liens culturels et expression locale." In *En Syrie: Aux origines de l'écriture*, edited by P. Talon and K. Van Lerberghe, pp. 49–52. Leuven: Brepols.
- Salvini, Mirjo
- 1993 "Un documento del re ittita Ammuna." *Studi micenei ed egeo-anatolici* 32: 85–89.
- 1994 "Una lettera di Hattusili I relativa alla spedizione contro Hahhum." *Studi micenei ed egeo-anatolici* 34: 61–80.
- Sampson, Geoffrey
- 1985 *Writing Systems: A Linguistic Introduction*. Stanford: Stanford University Press.
- Scheil, Vincent
- 1929 "Tablettes pictographiques." *Revue d'Assyriologie et d'Archéologie Orientale* 26: 15–17.
- Schmandt-Besserat, Denise
- 1992 *Before Writing*. Volume 1: *From Counting to Cuneiform*. Austin: University of Texas Press.
- Schmidt, Erich F.
- 1932 *Researches in Anatolia*, Volume 4: *The Alishar Hüyük Seasons of 1928 and 1929*, Part 1. Oriental Institute Publications 19. Chicago: University of Chicago Press.
- 1939 *The Treasury of Persepolis and other Discoveries in the Homeland of the Achaemenians*. Oriental Institute Communications 21. Chicago: University of Chicago Press.

- 1957 *Persepolis 2. Contents of the Treasury and other Discoveries*. Oriental Institute Publications 69. Chicago: University of Chicago Press.
- Soden, Wolfram von
- 1995 *Grundriss der akkadischen Grammatik*. Rome: Editrice Pontificio Istituto Biblico.
- Stein, Gil J., and Adnan Mısıır
- 1994 "Mesopotamian-Anatolian Interaction at Hacinebi, Turkey: Preliminary Report on the 1992 Excavations." *Anatolica* 20: 145–89.
- Steinkeller, Piotr
- 1984 "Observations on the Function and Use of the Uruk Clay Bullae and Numerical Tablets." Paper Read at the 194th Meeting of the American Oriental Society.
- 1995 Review of *Zeichenliste der Archaischen Texte aus Uruk* by M. Green and H. Nissen. *Bibliotheca Orientalis* 52: 689–713.
- 1998 "Inana's Archaic Symbol." In *Written on Clay and Stone: Ancient Near Eastern Studies Presented to Krystyna Szarzyńska on the Occasion of Her 80th Birthday*, edited by J. Braun et al., pp. 87–100. Warsaw: Agade.
- Strommenger, Eva
- 1980 *Habuba Kabira: Eine Stadt vor 5000 Jahren: Ausgrabungen der Deutschen Orient-Gesellschaft am Euphrat in Habuba Kabira, Syrien*. Mainz am Rhein: Philipp von Zabern.
- Studevent-Hickman, Benjamin
- 2007 "The Ninety-degree Rotation of the Cuneiform Script." In *Studies in Honor of Irene J. Winter by Her Students*, edited by J. Cheng and M. H. Feldman, pp. 485–513. Culture and History of the Ancient Near East 26. Leiden and Boston: Brill.
- Szarzyńska, Krystyna
- 1987–88 "Some of the Oldest Cult Symbols in Archaic Uruk." *Jaarbericht van het Vooraziatisch-Egyptisch-Genootschap* 30: 3–21.
- 1996 "Archaic Sumerian Standards." *Journal of Cuneiform Studies* 48: 1–15.
- van den Hout, Theo
- Forthcoming "The Ductus of the Alalakh VII Texts and the Origin of the Hittite Cuneiform." In *Proceedings of the Leiden 2009 Conference on Paleography*, edited by Elena Devecchi et al.
- Vanstiphout, Herman L. J.
- 1989 "Enmerkar's Invention of Writing Revisited. In *DUMU-E₂-DUB-BA-A*." In *Studies in Honor of Åke W. Sjöberg*, edited by H. Behrens, D. Loding, and M. T. Roth, pp. 515–24. Occasional Publications of the Samuel Noah Kramer Fund 11. Philadelphia: The University Museum.
- 2003 *Epics of Sumerian Kings: The Matter of Aratta*. Writings from the Ancient World 20. Atlanta: Society of Biblical Literature.
- von der Osten, Hans Henning
- 1934 *Ancient Oriental Seals in the Collection of Mr. Edward T. Newell*. Oriental Institute Publications 22. Chicago: University of Chicago Press.
- Walker, C. B. F.
- 1987 "Cuneiform." In *Reading the Past: Ancient Writing from Cuneiform to the Alphabet*, introduced by J. T. Hooker, pp. 15–70. Berkeley: University of California Press.
- von der Way, Thomas
- 1987 "Tell el-Fara'in-Buto, 2." *Mitteilungen des Deutschen Archäologischen Instituts, Abteilung Kairo* 43: 241–60.
- Weber, Otto
- 1921 *Keilschrifturkunden aus Boghazköi*, Volume 1. Berlin: Staatliche Museen.
- Weisberg, David B.
- 1991 *The Late Babylonian Texts of the Oriental Institute Collection*. Bibliotheca Mesopotamica 24. Malibu: Undena Publications.
- Woods, Christopher E.
- 2010 "The Morphographic Basis of Sumerian Writing." In *Linguistic Method and Theory and the Languages of the Ancient Near East*, edited by A. Stauder and C. Woods. Chicago: University of Chicago Press (forthcoming).
- Yoffee, Norman
- 2005 *Myths of the Archaic State: Evolution of the Earliest Cities, States, and Civilizations*. Cambridge: Cambridge University Press.
- Zimansky, Paul
- 1993 Review of *Before Writing*, Volume 1: *From Counting to Cuneiform*, by D. Schmandt-Besserat. *Journal of Field Archaeology* 20: 513–17.