The time-depth of the Romance language family (ca. 2,000 years) yields an abundance of similarities among languages descended from Latin: Spanish, French, Italian, and so forth. The time-depth of Lehi is not much greater (2,600 years), yet no similar abundance of accepted linguistic evidence for Lehi’s presence in the Americas has emerged. Is this because of a lack of evidence or a lack of looking? We cannot know until we look. The relative absence of effort in Native American languages relevant to Book of Mormon research is a huge void in Latter-day Saint scholarly endeavor. This paper discusses the value of and need to void this existing void, and presents from one Native American language family an example of the possibilities.
Looking Over vs. Overlooking
Native American Languages:
Let’s Void the Void

Brian Darrel Stubbs

Abstract: The time-depth of the Romance language family (ca. 2,000 years) yields an abundance of similarities among languages descended from Latin: Spanish, French, Italian, and so forth. The time-depth of Lehi is not much greater (2,600 years), yet no similar abundance of accepted linguistic evidence for Lehi’s presence in the Americas has emerged. Is this because of a lack of evidence or a lack of looking? We cannot know until we look. The relative absence of effort in Native American languages relevant to Book of Mormon research is a huge void in Latter-day Saint scholarly endeavor. This paper discusses the value of and need to void this existing void, and presents from one Native American language family an example of the possibilities.

Our traditional approach to language-related research regarding the Book of Mormon has been fairly thorough and productive in traditional directions, but an established imbalance in that approach has left a void in what should be an important sphere of Latter-day Saint research: linguistic analysis of Native American languages. Though the void is understandable for the past—because of limited data and too few scholars—both limits are now changing sufficiently to allow efforts toward voiding this void.

As believers in the Book of Mormon, we adhere to the actuality that parties accompanying Lehi and Mulek left Jerusalem and
arrived in the Americas some 2600 years ago and that their descendants are among the Native Americans. The writings of John Sorenson and others suggest that descendants of those immigrant parties and the geographical locations they originally occupied were much less than the pan-American assumptions of earlier generations.\(^1\) The immense linguistic variety in the Americas suggests the same. Some 2,000 Native American languages comprise nearly 100 separate language families. That diversity leaves little doubt that many peoples besides the groups of Lehi and Mulek contributed to pre-Colombian populations and languages. Nevertheless, whatever the original parameters of geography and language for the Book of Mormon peoples, it is not unreasonable to expect that evidences of Hebrew or possibly Egyptian may survive in some languages of the Americas.

Thus far the focus of Book of Mormon language research has been Hebrew, Egyptian, and the translated English text. This logical starting place, subject to careful thought and study, has yielded enlightening results; nevertheless, another dimension awaits attention. Though the number of Latter-day Saint scholars knowing Hebrew, Egyptian, or related languages has increased, we hardly suffer from an overabundance of those knowledgeable in ancient Near Eastern languages. In terms of employability or marketability of that knowledge, some individuals may feel part of an overabundance, but in a strict academic sense for collective research purposes, in light of what remains to be done, our resources are still fairly limited, especially if we consider the other sphere of research that remains quite untouched: Native American languages.

What was the language of Mormon and Moroni? Debates among Latter-day Saint scholars center on Hebrew and Egyptian; however, both may be near misnomers for the Lehi languages of A.D. 400. Between Lehi and Moroni was a span of approximately 1,000 years, and between Moroni and European contact was a lit-

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tle more than 1,000 years. Thus Moroni was about midway
between Lehi and European contact. The extent that Book of
Mormon groups had been in contact with or had mixed with non-
Hebrew speakers by Moroni’s time would likely parallel the
degree of change in the languages of Lehi’s posterity by A.D.
400. No known Native American language is very similar to
Hebrew (or Egyptian). Suppose that the American language(s)
most similar to Hebrew were identified and that the amount of
change from Hebrew was interpolated over the more than two
millennia since Lehi’s arrival. If the Lehi languages of A.D. 400
had undergone about half the lexical and grammatical change
observable in the Native American language(s) most similar to
Hebrew, that amount of change would leave Moroni’s and the
Lamanites’ language(s) of A.D. 400 more significantly different
from either Hebrew or Egyptian than most suspect. Old English,
largely because of foreign influences over the last 1,000 years, is
essentially a foreign language to modern English speakers, though
both forms are called “English”; and the language differences
between Lehi’s Hebrew and the languages of his posterity 1,000
years later may have exceeded the changes in English in a similar
length of time. Therefore, if Native American languages are not
much further removed in time from Moroni than was Lehi, maybe
the contemporary end of the timeline can provide as many clues
as Lehi’s end, if not a greater number and clearer clues. Thus why
not investigate both ends of the language spectrum?

In any case, we know practically nothing about the languages
in Moroni’s day, but we do know something about the Hebrew
and Egyptian of the Old World that Lehi left, and we have hun-
dreds of languages in the New World where he arrived. Why is
nearly all of our Book of Mormon-related language research con-
fined to only one of two ends of the language spectrum? The two-
language end is certainly easier to deal with than the 2,000-
language end, but that cannot be perpetual justification for a body
of scholars in search of truth to ignore indefinitely a huge reser-
voir of research potential—Native American languages. An
adjustment now seems desirable. In fact, the present may be an
optimum time for some to consider this larger sphere of research,
since just now substantive quantities and qualities of data are
accumulating for comparative research in many Native American languages.

Since research in this "larger picture" requires a combination not common in scholarly preparation, most interested persons would need to expand their backgrounds. Three prerequisites—a knowledge of Hebrew or other Near Eastern languages, a foundation in historical linguistics, and a knowledge of a Native American language family—qualify one for the work, so to speak. For those who already know Hebrew, adding a background in historical linguistics would allow investigation of a Native American language family with some potential for results. For linguists accomplished in Native American languages, adding Hebrew or related languages to their language repertoire would provide a similar package of prerequisites. Perhaps this oblique invitation might better apply to young prospective scholars still in the stage of preparation than to established scholars already set in research specialities.

Though I want to encourage, I must also, in all fairness, first caution against romanticized expectations of swift results. The realm of research in Native American languages is infinitely fascinating, but for mortals possessing a mere lifetime, infinite fascinations can also be frustrations. Though most scholarly accomplishment requires sizable portions of a lifetime, contrast the required language base for research endeavor in the ancient Near East vs. the Americas. A knowledge of half a dozen languages (Hebrew/Phoenician, Arabic, Aramaic, Egyptian or Coptic, Akkadian, and Greek) provides one with a fairly complete array of ancient Near Eastern languages. Would that six languages could do the same for a specialist in Uto-Aztecan, Hokan, or Penutian (each consisting of ca. 30 languages), or for one interested in proposed relationships between Uto-Aztecan, Penutian, and Kiowa-Tanoan (involving three language families totaling more than 60 languages), or for one like myself interested in a dozen language families, totaling a few hundred languages.

A second caution worth mentioning is that one not assume that Native American languages are less complex or easier to learn than Hebrew, Arabic, or Egyptian. Let me express my own opinion on the matter. Though Ara may have a richer lexicon than recorded for most Native American languages (phonological, morphological, and, to that point, Native American languages are easier to learn than, for example, Athapaskan language), Ute, Cora, Kiowa-Tanoan languages. On one American languages are so complicated, Quechua, and Muskogean and probably easier to learn than Penutian.

A third caution not to be overblown: language families are, for the most part, clear-cut, and problem-free as some family has unresolved problems (e.g., cognates of the Semitic lexicon, while 50% are complicated by disparate innovations, cognates are words from the same word in a language family. Penutian are still hypotheses, even if the convincing system of Penutian.

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2 This opinion is based upon the Navajo-speaking mission; five years of years of Spanish, two years of German, Aramaic, and Sanskrit. Beyond languages presently compiling the largest Tewa dictionary the White Mesa Pueblo, Hopi, Papago, Nahuatl, Quechua, Chocó brief perusals of dozens of other languages, published "The Labial Labyrinth in Uto-Aztecan Linguistics" 61/4 (1995): 132. In Uto-Aztecan" is scheduled to be published. I have a third article in preparation for UTAI, and I am pre-Cow Vocabulary of Uto-Aztecan work on comparative UA linguistics, as noticed thus far in the literature; and I for Language Puzzle of the Ancient Pueblo
STUBBS, LET’S VOID THE VOID

ion on the matter. Though Arabic (but not necessarily Hebrew) may have a richer lexicon than what has been preserved or recorded for most Native American languages, the structural complexities (phonological, morphological, and syntactic) of many, if not most, Native American languages leave Hebrew, Arabic, and Egyptian easier to learn than, for example, Navajo (or any other Athapaskan language), Ute, Cora, most Hokan, most Penutian, or Kiowa-Tanoan languages. On the other hand, not all Native American languages are so complex: for example, Hopi, Tarahumara, Quechua, and Muskogean languages are no more difficult and probably easier to learn than Arabic or Egyptian.

A third caution not to be overlooked is that Native American language families are, for the most part, linguistically more complex than Semitic. Few language families on earth are so neat, clear-cut, and problem-free as Semitic. Though every language family has unresolved problems (e.g., exceptions to sound correspondences, etc.), such problems apply to perhaps less than 10% of the Semitic lexicon, while 50% of the Uto-Aztecan cognate sets are complicated by departures from the understood sound correspondences (cognates are words in related languages descended from the same word in a former parent language). Hokan and Penutian are still hypotheses, since no one has yet been able to produce a convincing system of sound correspondences for either group. Though most linguists see sufficient similarity within each

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2 This opinion is based upon the following experience: two years on a Navajo-speaking mission; five years of Hebrew; three years of Spanish; three years of Arabic; two years of German; one year each of Ancient Egyptian, Aramaic, and Sanskrit. Beyond languages backed by college credit, I am also presently compiling the largest Tewa dictionary in existence and a dictionary on the White Mesa Ute dialect. I have also studied to varying degrees Tarahumara, Hopi, Papago, Naaua, Quechua, Choctaw, and Samoan, and I have engaged in brief perusals of dozens of other languages. As a Uto-Aztecanist, I have published “The Labial Labyrinth in Uto-Aztecan,” in The International Journal of American Linguistics 61/4 (1995): 394-420; “The Comparative Value of Tubar in Uto-Aztecan” is scheduled to be published in a memorial volume for Professor Wick Miller; I have a third article “The Elusive Liquids of Uto-Aztecan” in preparation for IJAL; and I am presently completing a book entitled A Comparative Vocabulary of Uto-Aztecan Languages, which will be the largest work on comparative UA linguistics, adding comment and cognate sets to all noticed thus far in the literature; and I have started another book entitled The Language Puzzle of the Ancient Pueblo or Anasazi.
group to think that they are separate groups of related languages, neither is yet a proven language family. I recently heard Margaret Langdon, the foremost Hokanist for decades, say, “Some days I wonder if Hokan is a fantasy.” As for elusiveness from definitive linguistic analysis, Indo-European is somewhere between Semitic and most Native American languages families. One difference is that a virtual army of linguists has contributed solutions to Indo-European over the last century and a half, while Native American language families typically attract perhaps ten to twenty linguists working on individual languages and three or four interested in comparative work on the language family as a whole.

These observations hint at the volume of data and difficulties an Americanist faces; and in an effort to be both an Americanist and a Semitist, which I see as the only total approach to Book of Mormon language matters, one can feel overwhelmed and wonder at the imbalance—that nearly all interested Latter-day Saint scholars seem to focus on the two-language end, while ignoring the equally important 2,000-language end.

In any case, we must be cautious in our expectations of what we might find and in our interpretations of those findings. Even if a connection between Hebrew (or Egyptian) and a Native American language family were established, it would not necessarily prove the Book of Mormon, since a Semitic element, if found, could possibly have arrived independent of Lehi and Mulek. On the other hand, a lack of a connection would not necessarily disprove it either, since lack of a Near East language element could be because of language loss or change among a people, as has happened often in the histories of language groups. For example, Aramaic had replaced Hebrew as the common vernacular among the Jews by Jesus’ time, and the Iberian populations adopted Latin under Roman rule. Yet the language of a conquering people does not always prevail. In the Iberian Peninsula the Germanic Visigoths actually adopted the language of the people they conquered, speaking later forms of Latin. Most Native Americans now speak English or Spanish, though hardly of Indo-European ancestry. Many more examples could be cited. In other words, language and lineage may or may not have much to do with each other.

Nevertheless, a language like Semitic found among American languages has the plausibility of the sacred records. Beyond that, if some tribal names match Hebrew forms of Book of Mormon if written records were discovered, we might have something like Semitic and New World languages, not to align with events or peopling the land and a new set of questions.

In any case, we are admonish...
Nevertheless, a language element traceable to Northwest Semitic found among American languages would only strengthen the plausibility of the sacred record's historicity in ancient America. Beyond that, if some tribal names or place names were found to match Hebrew forms of Book of Mormon peoples or places, or if written records were discovered and deciphered, and their language found to be something linguistically between Old World Semitic and New World languages, or their deciphered contents were to align with events or peoples mentioned in the Book of Mormon text, then it would be refreshing to have some answers and a new set of questions.

In any case, we are admonished to “study and learn, and become acquainted . . . with languages, tongues, and people” (D&C 90:15), and comparative linguistic research among Native American groups should hold a higher priority among Latter-day Saint scholars than it has, since those efforts can apply or relate to so many interests relevant to Book of Mormon scholarship. Yet it seems fair to say that serious comparative linguistic investigation with respect to the Book of Mormon has been a void in Latter-day Saint endeavor. Not only is it relevant to the other disciplines focusing on the Book of Mormon, but comparative linguistic research may prove to be the very key to answers thus far evading other modes of investigation. It has the potential of giving us the basic vocabulary of certain ancient American groups; relative percentages of Hebrew and Egyptian; possible identification of dialects, ethnic compositions, and places of departure; and more.

Also worth noting is the relative strength of comparative linguistic evidence. The nature of comparative linguistic evidence provides large bodies of data—several thousand words per language—that is nonforgeable. Ruins and buildings yield some facts, though who built them is not always one of the facts revealed. Words of a translation can be debated endlessly, and written records can feasibly be forged, but no one can fabricate a language family of several Native American tribes speaking a variety of related languages.

In spite of the potential, it is important to note that no American Indian language has yet been shown to descend from or relate to a Near Eastern language, at least to the satisfaction of the linguistic community. My research of over a hundred languages and...
several language families thus far has convinced me that no Native American language so obviously and solely descends from Hebrew or Egyptian in the way that Spanish, French, and Italian so clearly descend from Latin. Nevertheless, even though no pervasive appearance of Hebrew in the Americas has surfaced, hints of Hebrew occur in a number of language families.

Some language families contain more similarities to Hebrew than could be attributed to chance, while other language families tease with enough promising leads to merit further investigation. However, in all such cases, if a Near Eastern linguistic element should prove verifiable, it seems clear that this element has mixed heavily with other languages quite dissimilar to Hebrew or Egyptian, because all Native American languages have many features very different from Hebrew and Egyptian. This accords well with Sorenson’s views of “others in the land.” Nonetheless, some languages may contain a Hebrew component. Because of the immensity of American linguistic diversity, the nature of responsible linguistic investigation, and a current severe shortage of those interested and prepared to investigate, progress in rigorously sifting and tracing the leads will necessarily be slow. Nonetheless, an example of the possibilities is in order.

The language family that I have dealt with most is Uto-Aztecan (UA), in which I have identified substantial similarities with Hebrew. A short preview of the growing case for a Hebrew element in UA seems appropriate for students of the Book of Mormon. Let me emphasize the word element, for UA languages are very different from Hebrew in many ways. In other words, in addition to a Hebrew element in UA, any Hebraist learning or reading a UA language can readily see more differences than similarities, supporting the other half of my thesis, that this Hebrew element is mixed heavily with non-Near Eastern elements.

In addition to numerous lexical similarities, some features of Northwest Semitic morphology are still productive in UA, i.e., are still functionally active, such as the masculine plural suffix and niqṭal prefix, while much more is fossilized, i.e., nonfunctional “frozen” patterns are detectable such as the feminine plural, qīṭīl

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3 Sorenson, “When Lehi’s Party Arrived in the Land, Did They Find Others There?” 1-34.

4 Among Latter-day Saint scholars regarding the validity of the Semitic data c Uto-Aztecanists, I know of no others besi be difficult for nonspecialists to assess connections, it may be well to mention the five Uto-Aztecanists (linguists w lingustics) and four of the five were qu quality of the evidence—two spoke very hardly speak at all after seeing it; and generally, but offered no substantive r Aztec linguistics, see n. 2.
far has convinced me that no Native American or, and solely descends from that Spanish, French, and Italian so evertheless, even though no pervasive tongue has surfaced, hints of language families.

Obtain more similarities to Hebrew once, while other language families leads to merit further investigation. A Near Eastern linguistic element is clear that this element has mixed quite dissimilar to Hebrew or Egyptian languages have many features of Egyptian. This accords well with the land. Nevertheless, some brew component. Because of the static diversity, the nature of responding to a current severe shortage of those stimatge, progress in rigorously sift-necessarily be slow. Nonetheless, an order.

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Arrived in the Land, Did They Find

__STUBBS, LET'S VOID THE VOID__

forms, hiqṭṭl and huqṭl forms, etc. With that in mind, consider a few of some 1,000 identified similarities between Hebrew and Uto-Aztecan.

A Hebrew Element in Uto-Aztecan

The UA language family consists of the following languages:

<table>
<thead>
<tr>
<th>Branch</th>
<th>Language (abbreviation)</th>
<th>Locale</th>
</tr>
</thead>
<tbody>
<tr>
<td>North UA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western</td>
<td>Mono (Mn); Northern Paiute (NP)</td>
<td>CA, OR, NV</td>
</tr>
<tr>
<td>Numic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central</td>
<td>Panamint (Pn);</td>
<td>NV</td>
</tr>
<tr>
<td>Numic</td>
<td>Shoshone (Sh);</td>
<td>NV, UT, ID, WY</td>
</tr>
<tr>
<td></td>
<td>Comanche (Cm)</td>
<td>TX</td>
</tr>
<tr>
<td>Southern</td>
<td>Kawaiisu (K); Chemehuevi (Ch);</td>
<td>S. CA</td>
</tr>
<tr>
<td>Numic</td>
<td>Southern Paiute (SP); Ute (U)</td>
<td>UT, CO</td>
</tr>
<tr>
<td>Takic</td>
<td>Cahuilla (Ca); Luiseño (Ls); Serrano (Sr); Cupeño (Cp); Gabrieleno (Gb)</td>
<td>S. CA</td>
</tr>
<tr>
<td>single-language branches</td>
<td>Tubatulabal (Tb)</td>
<td>S. CA</td>
</tr>
<tr>
<td>South UA</td>
<td>Hopi (Hp)</td>
<td>AZ</td>
</tr>
<tr>
<td>Tepiman</td>
<td>O’odham/Papago/Pima (Od)</td>
<td>AZ, Mex</td>
</tr>
<tr>
<td></td>
<td>Northern Tepehuan (NT)</td>
<td>Mex</td>
</tr>
<tr>
<td></td>
<td>Southern Tepehuan (ST)</td>
<td>Mex</td>
</tr>
<tr>
<td>Cahitan</td>
<td>Yaqui (Yq); Mayo (My)</td>
<td>Mex</td>
</tr>
</tbody>
</table>

Among Latter-day Saint scholars are a few Semitists, to whom queries regarding the validity of the Semitic data can be directed. As for Latter-day Saint Uto-Aztecanists, I know of no others besides myself. Therefore, because it may be difficult for nonspecialists to assess the merit of proposed linguistic connections, it may be well to mention that I have privately shared this material with five Uto-Aztecanists (linguists who have studied and published in UA linguistics) and four of the five were quite overwhelmed at the quantity and quality of the evidence—two spoke very highly of it; two, in surprise, could hardly speak at all after seeing it; and the fifth did not like the proposal generally, but offered no substantive refutations. For publications in Uto-Aztecan linguistics, see n. 2.
Sonoran  Tarahumara (Tr); Guarijio (Wr)  Mex
Tubar (Tbr); Eudeve (E)  Mex

Corachol  Cora (Cr); Huichol (Hch)  Mex

Aztecan  Nahuatl (N)  Mex

For a pronunciation guide to the sounds as represented in this paper, see the appendix, Orthography and Pronunciation (pages 43-45), which I encourage the reader to consult now. Abbreviations other than those listed above are found at the end of the appendix. Sources for lexical items from the various Native American and Semitic languages are listed in the bibliography. A proto-language is a hypothesized parent language from which a group of related languages descended; an asterisk (*) before a form or word signifies that it has been reconstructed by linguists as an unattested ancient or intermediate form in the parent language on the basis of comparisons of related words (cognates) in the descendant languages.

Among the most interesting discoveries are certain similarities of UA forms to archaic vowing patterns in Northwest Semitic, the branch to which Hebrew belongs.

1. plural suffix  -îm  -*ima
2. passive/rfl/recp prefix  ni-  *na-
3. perfect of yîb  sit/dwell  yâšâb  *yasipa

UA morphemes show some similarity with Masoretic Hebrew, though nothing exact: -îm and -ima; ni- and na-; yâšâb and yasipa. However, the facts that Hebrew -îm came from an earlier *-ima; the Hebrew niqṭal (or nipṭal) prefix ni- from an earlier *na-; and Hebrew yâšâb from an earlier *yašiba, all establish a nearly perfect identity between pre-Hebrew (proto-Northwest Semitic) and proto-UA forms:

<table>
<thead>
<tr>
<th>Hebrew</th>
<th>UA</th>
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<tbody>
<tr>
<td>-îm</td>
<td>*-ima</td>
</tr>
<tr>
<td>ni-</td>
<td>*na-</td>
</tr>
<tr>
<td>yâšâb</td>
<td>*yasipa</td>
</tr>
</tbody>
</table>

NW Sem  UA
plural suffix  *-ima  *-ima
reflexive/reciprocal prefix  *na-  *na-
sit, dwell  *yašiba  *yasipa

*IMA/*-ima: For NW Sem *-ima, see Sabatino Moscati, ed., An Introduction to the Comparative Study of the Semitic Languages (Wiesbaden: Harrassowitz, 1964), 88 and 97, and John Syllabic Transcription, ed. Frank Moore C 296. For UA, the plural suffixes in a repre as follows:

| Cp | -im |
| Ca | -em |
| Yq and My | -im |
| Wr | -ima |

All UA languages having this suffix show /e, i/; and some show a high front vowel (i, u) suffixed to words ending in a vowel and consonant. UA languages tend toward CVC usually level to something between the two, which process would explain the reduction similar probably happened in the other UA m, leaving -m or -mV in most UA langua front vowel in at least four UA languages Uto-Aztecanists have ignored. If the vowel way, a round vowel (o, u) would be more likely high front vowel before m strongly suggest m that was lost in the other languages. It plausible since all variations from that c final a lowering i to e in Ca, and preceding As for N, Karen Dakin, "Phonological Ch Mood Systems," International Journal of 71, demonstrated that N -me came from a following (morpheme divisions are Wi Textos y Vocabulario," 1989):

| sg. su'ka-ni | pl. su'ki-ma |
| sg. neha-ni | pl. nehi-ma |
| sg. ola-ni | pl. ori-ma |

A morpheme division that includes (least as reasonable) would yield sg. -ani at *na-: Joshua Blau, A Grammar Harrassowitz, 1976), perhaps the foremost the earliest vowing of the niqṭal prefix examples that illustrate all three uses of th passive (ibid., 51). Though reflexive and r the prefix in UA and passive is the most the three meanings are employed in Semitic or notions of reflexive, reciprocal, and par example, Spanish se is employed for all event could be described with either "he
of Mormon Studies 5/1 (Spring 1996)

Guarjio (Wr) Mex
leve (Eu) Mex
ol (Hch) Mex

The sounds as represented in this
ography and Pronunciation (pages
reader to consult now. Abbrevi-
above are found at the end of the
items from the various Native
es are listed in the bibliography. A
ed parent language from which a
enced; an asterisk (*) before a
has been reconstructed by linguists
mediate form in the parent lan-
ions of related words (cognates) in
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<table>
<thead>
<tr>
<th>Hebrew</th>
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<tbody>
<tr>
<td>-im</td>
<td>*-ima</td>
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<tr>
<td>ni-</td>
<td>*na-</td>
</tr>
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</table>

well yāṣab *yasipa

Similarity with Masoretic Hebrew,
and -im; ni- and na-; yāṣab and
Hebrew -im came from an earlier
nip’al) prefix ni- from an earlier
an earlier *yāṣiba, all establish a
n pre-Hebrew (proto-Northwest

<table>
<thead>
<tr>
<th>NW Sem</th>
<th>UA</th>
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<tbody>
<tr>
<td>*-ima</td>
<td>*-ima</td>
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<tr>
<td>*na-</td>
<td>*na-</td>
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<tr>
<td>*yāṣiba</td>
<td>*yasipa</td>
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</tbody>
</table>

*-ina, see Sabatino Moscati, ed., An
y of the Semitic Languages (Wiesbaden:

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Harrassowitz, 1964), 88 and 97, and John Huenernagard, Ugaritic Vocabulary in
Syllabic Transcription, ed. Frank Moore Cross (Atlanta: Scholars Press, 1987),
296. For UA, the plural suffixes in a representative sample of UA languages are
as follows:

<table>
<thead>
<tr>
<th></th>
<th>-im</th>
<th>Hp</th>
<th>-m</th>
<th>N</th>
<th>-me</th>
<th>*-ma</th>
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<tbody>
<tr>
<td>Cp</td>
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<tr>
<td>Ca</td>
<td>-em</td>
<td>Sr</td>
<td>-m</td>
<td>Hch</td>
<td>-mm</td>
<td></td>
</tr>
<tr>
<td>Yq and My</td>
<td>-im</td>
<td>Tbr</td>
<td>-m</td>
<td>K</td>
<td>-mi</td>
<td></td>
</tr>
<tr>
<td>Wr</td>
<td>-ima</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All UA languages having this suffix show m; some show a vowel after the m (a, e, i); and some show a high front vowel (i, e) before the m. Yq and My have -m suffixed to words ending in a vowel and -im suffixed to words ending in a consonant. UA languages tend toward CVCC patterns; thus, two adjacent vowels usually level to something between the two or the second often is eliminated, which process would explain the reduction of -im to -m after vowels. Something similar probably happened in the other UA languages that have no vowel before m, leaving -m or -MV in most UA languages. However, the presence of a high front vowel in at least four UA languages is a reality to be reckoned with that Uto-Aztecanists have ignored. If the vowel before m were exsorscent in some way, a round vowel (o, u) would be more likely, but not i or e. The presence of a high front vowel before m strongly suggests an original high front vowel before m that was lost in the other languages. A reconstruction of *-ima seems most plausible since all variations from that can be attributed to vowel leveling—final a lowering i to e in Ca; and preceding i raising a to e or i in some languages. As for N, Karen Dakin, “Phonological Changes in Nahuatl: The Tense, Aspect, Mood Systems,” International Journal of American Linguistics 45/1 (1979): 48–71, demonstrated that N -me came from an earlier *-ma. Wr has pairs like the following (morpheme divisions are Wick Miller’s in “Guarjio: Gramatica, Textos y Vocabulario,” 1989):

- sg. su’ka-ni | pl. su’ki-ma | to sew
- sg. nehni-ni | pl. nehi-ma | to hand over
- sg. ola-ni | pl. ori-ma | to shell corn

A morpheme division that includes the preceding vowel (which seems at least as reasonable) would yield sg. -ani and pl. -ima.

*-na: Joshua Blau, A Grammar of Biblical Hebrew (Wiesbaden: Harrassowitz, 1976), perhaps the foremost Hebrew linguist-grammarians, renders the earlier vowel of the nigtal prefix as na- rather than ni-. He also lists examples that illustrate all three uses of the na- prefix: reflexive, reciprocal, and passive (ibid., 51). Though reflexive and reciprocal are the most common uses of the prefix in UA and passive is the most common use in biblical Hebrew, all three meanings are employed in Semitic and two of the three in UA. The semantic notions of reflexive, reciprocal, and passive often overlap in languages; for example, Spanish se is employed for all three uses, and in English the same event could be described with either “he burned himself” (reflexive) or “he got
Furthermore, the verbal forms of both Northwest Semitic and UA contain semantic dimensions of *yašība, which means "sit" and "dwell" in both families. That the UA vowel patterns are quite equivalent to proto-Northwest Semitic voweling patterns is striking. The Hebrew Old Testament text as we have it, also known as the Masoretic text, was voweled by the Masoretes some 1,200 to 1,300 years after Lehi and Mulek left Jerusalem. Thus that form of Hebrew known as biblical Hebrew is only one dialect of ancient

*yašība/*yasipa: Verbs of temporary state in Semitic (such as *yašība “sit”) generally exhibited i as the medial vowel of the perfect (Moscati, Comparative Study of the Semitic Languages, 122). However, the medial i later changed to a in most Hebrew verbs because of the closed stressed syllable created by the perfect suffixes (Blau, Grammar of Biblical Hebrew, 36; William Gesenius, Gesenius’ Hebrew Grammar, ed. E. Kautzsch and trans. A. E. Cowley, 2nd ed. [London: Oxford University Press, 1910], 120). Medial i is still apparent in the Aramaic form yātīh and Ugaritic ʾatīh. In addition, the short final vowels of proto-Semitic were lost in Hebrew (Moscati, Comparative Study of the Semitic Languages, 122, 170; Blau, Grammar of Biblical Hebrew, 30). Thus, UA showing *yasipa in light of pre-Hebrew *yašība, even though classical Hebrew has yāšāb, is rather astounding. The UA forms are as follows:

| SP  | wi-ton?noi | vt. shake | na-wi-ton?noi | shake oneself up |
| SP  | paqî | vt. bath | na-vaqî | bathe oneself |
| Hp  | ʾqāla | vt. greet s.o. | naa-ʾqāla | cheer oneself up |
| Hp  | wîisi | brush, broom | naa-wiisi | comb one’s hair |
| Hp  | qōy-qa | to start a fire | naa-qōy-na | burn oneself |
| Tr  | co- | vt. hit with the fist | naa-co- | fight with each other |
| Tr  | paba- | vt. throw rocks at | na-paba- | throw rocks at each other |

Arabic (South Sem) -īna/ Aramaic -īr
Akkadian (East Sem) -īm/ Ugaritic -ūma/
pre-Heb/NW Semitic -īn UA

One can see that n and not m aj suffix in Arabic and Aramaic, while m. Only Northwest Semitic show Northwest Semitic as Hebrew does. *Semitic for the plural suffix. The co more specifically to Hebrew. Proto-corresponds to Hebrew y, and Ugaritic initial w or y, all of which suggest Ugaritic, and South Semitic all sl intersection of these two sets (y and the verb “sit/dwell,” though UA sho UA ṣ for Hebrew ṣ (c proto-Semitic ples also points to Hebrew.

6 See *yašība in n. 5.
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...rms of both Northwest Semitic and
tones of *yašība, which means “sit”.
That the UA voweling patterns are
...text as we have it, also known
eled by the Masoretes some 1,200 to
ulek left Jerusalem. Thus that form
Hebrew is only one dialect of ancient

\[ \text{na-vaqt} \] bathe oneself
\[ \text{na-ṯwf-toun} \] shake oneself
\[ \text{naa-ʔqala} \] cheer oneself up
\[ \text{naa-wissi} \] comb one’s hair
\[ \text{naa-qilq-na} \] burn oneself
\[ e \text{ fist na-co-} \] fight with each other
\[ s \text{ at na-paba-} \] throw rocks at each other

...arachic features do turn up sporadically.

It is worth noting that the above items help point to Northwest
Semitic (as opposed to other branches of Semitic or Semitic
generally) and sometimes, specifically Hebrew, as having the closest
affinity to UA.

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Hebrew, and is a very late dialect at that, far removed from Lehi
and David. Though the consonants of the text, written much ear-
lier, are more reliable, the voweling patterns of the Masoretic dia-
lect of Hebrew are as far removed in time from Lehi’s Hebrew as
U.S. Southern English is from Old English, which two forms of
English are also 1,200 years apart and are very different. Hebrew,
as we know it, lost the short final vowels of proto-Semitic, but as
seen in 1 and 3, those vowels are apparent in UA. However, not all
UA forms preserve the phonology so well, for in most cases UA
has phonologically reduced Semitic forms greatly; nevertheless,
arachic features do turn up sporadically.

- \text{masculine plural} & - \text{sit/dwell} \\
\hline
\text{Arabic (South Sem)} & \text{-ūna/-īna} & \text{waṭaba} \\
\text{Aramaic} & \text{-īn} & \text{yāṭib} \\
\text{Akkadian (East Sem)} & \text{-ū/ī} & \text{ašabu} \\
\text{Ugaritic} & \text{-ūma/-ima} & \text{ʔaḥib} \\
\text{pre-Heb/NW Semitic} & \text{*-īma} & \text{*yašiba} \\
\text{UA} & \text{*-ima} & \text{*yasipa} \\

One can see that \( n \) and not \( m \) appears in the masculine plural
suffix in Arabic and Aramaic, while East Semitic lacks both \( n \) and
\( m \). Only Northwest Semitic shows \(-ūma\). Ugaritic belongs to
Northwest Semitic as Hebrew does. So these all point to Northwest
Semitic for the plural suffix. The forms for “sit/dwell” point even
more specifically to Hebrew. Proto-Semitic and South Semitic \( w \)
corresponds to Hebrew \( ū \), and Ugaritic and East Semitic lack either
initial \( w \) or \( ū \), all of which suggests Hebrew. Likewise, Aramaic,
Ugaritic, and South Semitic all show \( ɪ \) (\( ṭ \)) rather than \( ū \); the
intersection of these two sets (\( ū \) and \( ū \)) points only to Hebrew in
the verb “sit/dwell,” though UA shows the pre-Masoretic vowel \( ɪ \).\(^6\)
UA \( ə \) for Hebrew \( ə \) (< proto-Semitic \( *ə \)) to be seen in later examples
also points to Hebrew.

\(^{6}\) See *yašība in n. 5.
For the data below, the left column generally contains a Hebrew form (an occasional Arabic or other Semitic form will be specified in the notes), and on the right are UA forms. Consider additional lexical similarities:

<table>
<thead>
<tr>
<th>Heb/Sem</th>
<th>UA</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. bārāq</td>
<td>lightning</td>
</tr>
<tr>
<td>5. *kiliyāh/koliyāh</td>
<td>kidney</td>
</tr>
<tr>
<td>6. kātēp/katp</td>
<td>shoulder</td>
</tr>
<tr>
<td>7. sōkem/sīkm</td>
<td>shoulder</td>
</tr>
<tr>
<td>8. ādām</td>
<td>man</td>
</tr>
</tbody>
</table>

⁷ Wick R. Miller, Uto-Aztecan Cognate Sets (Berkeley: University of California Press, 1967), abbreviated as (UACS). UACS #262 lightning: My berok-iria; Yq and My berok/bé'ok; Añders Lionnet, Los Elementos de la Lengua Cahta (Mexico City: Universidad Nacional Autonoma de Mexico, 1977); NT vipídosudami; ST vipgi; Od vipiği; Od bebek "thunder." In these words Hebrew b appears to correspond to UA *p, as it usually does, except in initial position. However, considering that the vowels have assimilated to the consonants' point of articulation (bārāq > berok, raising and fronting before alveolar r, and raising and back before uvular g), the NT -dor- and Yq/My -rok- syllables help show nicely the presence of all three consonants: a bilabial, r, and k/q. The two Od forms may be Tepiman dialect variants or borrowings within Tepiman. Nevertheless, Od bebek "thunder" shows nicely all three consonants as expected for Sem brq, with a slight semantic change.

⁸ SP kani "kidney" and Hr kele-vosna "kidney" suggest PUA *kali. That form is possible in Northwest Semitic. Aramaic has both kolya and kulya. The Hebrew form appears only in the pl. kōlāy, with a presumed singular of kolya, though the sg. is unattested. Nevertheless, a number of UA forms show a where Massoretic Hebrew shows t.

⁹ In light of Hebrew kātēp "shoulder" and Ar katip/katp "shoulder," consider Od kotva/kotva "shoulder"; Wr tepoβa "back" and "shoulder"; and Tr no-eap "push with the shoulder." Wr alone shows the Sem vowel, though it is missing the first consonant; however, Tr is nearly missing the first consonant, but shows the frequently occurring *for k in clusters, which makes the Wr clearer since it is nearly identical to Tr-Tr. Tr/Wr *tep/k tap. Nevertheless, all three Semitic consonants are well represented in their expected forms: UA *k, *t, *p.

¹⁰ Hebrew šekem/sīkm "shoulder": Ph sikkam-pi "shoulder blade"; Sh sikkam-pi "shoulder blade"; Mn sikhupi "shoulder blade"; WM Ute sku-pi "shoulder"; Sr sīk "shoulder"; Ls sōkia "shoulder"; Ca and Cp sek a "shoulder": Tr and Wr seka "arm, hand"; NT ika "arm"; My koxim-im "arms(s)"; Yq kōnim "arm"; Hp sikapci "scapula of sheep"; Hp sīkaci "shoulder blade."

¹¹ Hebrew ādām "man"; NT odami "person"; Od o'odham "person, tribesman, man"; ST odan "man"; Yq and My *bow "man, person," pl. *bow-im; Tr o'wi "man"; Tr owi "male, macho"; Wr of "male, macho."
left column generally contains a rabic or other Semitic form will be the right are UA forms. Consider

UA
berok lightning
*kali kidney
*kotpa shoulder
*sika/sikku shoulder
*otam man, person

Cognate Sets (Berkeley: University of d as (UACS). UACS #262 lightning: My k; Andres Lionnet, Los Elementos de la
idad Nacional Autonoma de Mexico, 1977); 1gi; Od bebedi “thunder.” In these words UA *p, as it usually does, except in initial
sat the vowels have assimilated to the dąq > berok, raising and fronting before before uvular q), the NT -δος- and Yq/My
presence of all three consonants: a bilabial, e Tepean dialect variants or borrowings bebedi “thunder” shows nicely all three
with a slight semantic change.

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less a number of UA forms show a where

“shoulder” and Ar kaṭi/tan “shoulder,” Wt τελόβα “back” and “shoulder”; and Tr r alone shows the Sem vowel, though it is,
Tr is nearly missing the first consonant, or k in clusters, which makes the Tr clearer tr/wr *tep/*tap. Nevertheless, all three

Av: Penn “shoulder blade”; Sh ṭaḥpi “shoulder blade”; WM Ute σκοτπι “shoulder”; Ca and Cp sek’a “shoulder”;
“arm”; My koxt-im “arm(s)”; Yq kõnimim ; Hs sikak “shoulder blade.”

*otam “person”; Od o’dham “person,
qu and My bòw “man, person,” pl. bòwach; Wt of “male, macho.”

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9. mayim/mēm water *mēme-t ocean
10. sippah smooth, *sipa shave, scrape
11. *siggōb squirrel *sikku squirrel

The rounding effect of the aleph or glottal stop causes the initial vowel to be o (cf. 52–64). The Tepiman languages (NT and Od) preserve all else fairly well. Yq and My often have r and 3 alternations (cf. berok/be’ok “lightning”) and with intervocalic d easily being perceived as intervocalic r (as it is in English), it only remains to explain m > w (odam > orom > o’ow). In Tbr the intervening vowel was lost to create an alveolar-nasal cluster (dm) in which the alveolar became a nasal (n), and the m a w, which was probably nasalized in this now extinct UA language; for *m becomes a nasalized v in Ute very often. From that Tr and Wt owl “male” were probably derived, whether by similar development as Tbr or by borrowing from Tbr.

12 Cp mēme-t “ocean” and Ls mōma-t both fit a reconstruction of *mēme-t “ocean,” since the Ls o does correspond to Cp e.

13 Hebrew sipa(y) “sweep bare, smooth”; Gesenius gives “scrape off” in later Hebrew qįṭṭīl sippāh “plane off”; Mn sipa “shave”; Cs sīb “scrape,
shave”; Tr sīp “shave”; Hn sipaw-ta/sipsa “shave.” Not only does the i vowel in UA suggest a qįṭṭīl form rather than qal, but p in Hn instead of v also suggests qįṭṭīl with its doubled medial consonant; otherwise, intervocalic p in Hn allomorphically becomes v. A note convenient at this point is that lamad-he verbs (those which end with h in Hebrew writing) will be represented rmy/ramah, even though the final h in written Hebrew is basically an orthographic device to demonstrate a final vowel sound. However, h is not the third consonant and never was pronounced unless it is mappiq with a dot in it. This is quite apparent in the Hebrew and Arabic forms of rmy: rama(y), ramīti ṭay’r, rama(y) ṭay’r, ramītu ṭay’r. Nevertheless, even in English transcriptions that final h has become something of an orthographic institution among Semitists that we shall momentarily conform to.

14 The Hebrew Old Testament constitutes the majority of ancient Hebrew texts. Because not all spoken vocabulary would have found its way into the ancient text(s), certain items in other Semitic languages found to correspond to UA are worth noting, since those items could well have been in the spoken Hebrew language regardless their lack in an ancient text. The word for “squirrel” is an example. There is no word for “squirrel” in the Old Testament text; it simply did not occur in the writings of the scribes and prophets. However, the Arabic word for “squirrel” sînjab would correspond to Hebrew siggōb (< *sīnğa) and curiously we find UA sīkku “squirrel,” exactly as expected with the typical raising of vowels, loss of final consonant, and even the geminated medial consonant.

When n is the first element in a consonant cluster, Hebrew typically assimilates it to double the second consonant, whereas Arabic does not:
12. sippōr bird ~cipu(r) bird

Sound Correspondences

Linguists have found that even though sounds change over time, the changes are not haphazard; sounds change in consistent patterns, such that a sound in one language will quite consistently correspond to a particular sound in a related language. For example, the sound correspondences of English in the Indo-European language family include f = *p (i.e., f is from an original p or reconstructed proto-Indo-European *p); th = *t; and h = *k; and all three show a general trend of stops (p, t, k) becoming fricatives (f, th, h):

<table>
<thead>
<tr>
<th>English</th>
<th>Latin</th>
</tr>
</thead>
<tbody>
<tr>
<td>father</td>
<td>pater</td>
</tr>
<tr>
<td>foot</td>
<td>ped-</td>
</tr>
<tr>
<td>three</td>
<td>tres</td>
</tr>
<tr>
<td>thin</td>
<td>tenuis</td>
</tr>
<tr>
<td>hound</td>
<td>kan-is</td>
</tr>
<tr>
<td>heart</td>
<td>kord-is</td>
</tr>
<tr>
<td>hundred</td>
<td>kentum</td>
</tr>
</tbody>
</table>

Though many details remain to be worked out, a comparison of Hebrew or Semitic with Uto-Aztecan produces a fairly consistent pattern of sound correspondences, which is perhaps the most

<table>
<thead>
<tr>
<th>Ar</th>
<th>Heb</th>
<th>Ar</th>
<th>Heb</th>
</tr>
</thead>
<tbody>
<tr>
<td>antu</td>
<td>ṭanhu</td>
<td>ḥin</td>
<td>bint</td>
</tr>
</tbody>
</table>

In addition, long ā of Arabic and proto-Semitic correspond to ṣ in Hebrew; therefore, an Arabic form of sinjāb “squirrel” would yield siggōb in Hebrew. And SP sikkū “squirrel” is exactly what we would expect with the usual rising of vowels in UA and loss of a final segment. Some might argue s or ū (sh), but Arabic’s s’ (sin) can correspond to either Hebrew samech or shin; it hardly matters, however, since all three Semitic s’s (ś’, ś, s) merge to UA s.

15 Hebrew sippōr “bird, small bird.” Tr ciburi “chicks, baby birds”; Od sipug “bird, cardinal”; Ca and Cp cip (in compound words for birds); Wr cu’rakī “bird.” Od s does correspond to UA c; therefore, Od sipu < UA *cipu. The final g in Od is probably related to the final -ki syllable in Wr, both of which are probably another morpheme of an older compound.

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important linguistic criterion for between languages. Some of the correspondences are as follows:

<table>
<thead>
<tr>
<th>Arabic</th>
<th>Hebrew</th>
</tr>
</thead>
<tbody>
<tr>
<td>*b</td>
<td>b</td>
</tr>
<tr>
<td>*p</td>
<td>p</td>
</tr>
<tr>
<td>*r</td>
<td>r</td>
</tr>
<tr>
<td>*c</td>
<td>c</td>
</tr>
<tr>
<td>*h</td>
<td>h</td>
</tr>
<tr>
<td>*γ</td>
<td>γ</td>
</tr>
<tr>
<td>*s</td>
<td>s</td>
</tr>
<tr>
<td>*d</td>
<td>d</td>
</tr>
<tr>
<td>*z</td>
<td>z</td>
</tr>
<tr>
<td>*t</td>
<td>t</td>
</tr>
<tr>
<td>*δ</td>
<td>δ</td>
</tr>
</tbody>
</table>

Similar to the sound correspondences in the Indo-European language family, Hebrew b in predictable (dageshed)

16 See n. 17 below.
17 The correspondence of bilabials occurs often: in Indo-European (Greek p, L w, kv), Spanish dialects, etc. Where my Spanish dialect had such pronunciations as huevo “egg”), and gweso (< hueso “bone”).

In the phonology of the Masoretic c or /s/ when following vowel remained the voiced bilabial stop when position or when following another consonant Hebrew dageshed b’s correspond to UA *p, and thus merged with *p. However, a doubled pp often also cc doubled bb. The Wr form for bird in 13 abov is a typical reflex of kw in a cluster (will requires more investigation; nevertheless, Hebrew allophone is to the upper left corner the probability of a correspondence with lower right corner, the more likely is a corr
*cipu(ri) bird

: even though sounds change over time, sounds change in consistent ways; sounds change in consistent ways within a language will quite consistently show in a related language. For examples of English in the Indo-European *p (i.e., f is from an original p or *pean *p); th < *q; and h < *k; and of stops (p, t, k) becoming fricatives in to be worked out, a comparison between Semitic-UA correspondences is as follows:

<table>
<thead>
<tr>
<th>Proto-Semitic</th>
<th>Arabic</th>
<th>Hebrew</th>
<th>UA</th>
</tr>
</thead>
<tbody>
<tr>
<td>*b</td>
<td>b</td>
<td>b</td>
<td>kw/p</td>
</tr>
<tr>
<td>*p</td>
<td>p</td>
<td>p</td>
<td>p</td>
</tr>
<tr>
<td>*r</td>
<td>r</td>
<td>r</td>
<td>y/f</td>
</tr>
<tr>
<td>*t</td>
<td>t</td>
<td>t</td>
<td>w/o/u</td>
</tr>
<tr>
<td>*h</td>
<td>h</td>
<td>h</td>
<td>ho/w/o/u</td>
</tr>
<tr>
<td>*x</td>
<td>x</td>
<td>x</td>
<td>w/o/u</td>
</tr>
<tr>
<td>*z</td>
<td>z</td>
<td>z</td>
<td>c</td>
</tr>
<tr>
<td>*s</td>
<td>s</td>
<td>s</td>
<td>c</td>
</tr>
<tr>
<td>*d</td>
<td>d</td>
<td>d</td>
<td>c</td>
</tr>
<tr>
<td>*t</td>
<td>t</td>
<td>t</td>
<td>c</td>
</tr>
<tr>
<td>*z</td>
<td>z</td>
<td>z</td>
<td>c</td>
</tr>
<tr>
<td>*δ</td>
<td>δ</td>
<td>δ</td>
<td>t</td>
</tr>
</tbody>
</table>

Similar to the sound correspondence of Latin kw with Greek p in the Indo-European language family, UA kw corresponds to Hebrew b in predictable (dageshed) positions. One exception to

16 See n. 17 below.
17 The correspondence of bilabials (b, p, w) and labio-velars (kw, gw) occurs often: in Indo-European (Greek p, Latin kw), Uto-Aztecan (*kw > b, bw, w, kw), Spanish dialects, etc. Where my wife, Silvia Camelo, grew up, the Spanish dialect had such pronunciations as gweno (< bueno “good”), gweso (< hueso “egg”), and gweso (< hueso “bone”).

In the phonology of the Masoretic dialect of Hebrew, Semitic b became spirant or fricative v when following vowels and not doubled. Its pronunciation remained the voiced bilabial stop when geminated (dubbed) or in initial position or when following another consonant. Interesting in regard to UA is that Hebrew dageshed b’s correspond to UA *kw, but non-dageshed b’s correspond to UA *p, and thus merged with Sem p, which also corresponds to UA *p. However, a doubled pp often also corresponds to UA *kw, as does the doubled bb. The WR form for bird in 13 above (WR cu’rukî) is an example, since *u is a typical reflex of kw in a cluster (with r, in this case). The whole matter requires more investigation; nevertheless, it generally appears that the nearer a Hebrew allophone is to the upper left corner in the paradigm below, the greater the probability of a correspondence with UA *kw, and the nearer it is to the lower right corner, the more likely is a correspondence with UA *p (> p/w).
kw is the Tepiman branch of UA, in which Tepiman b corresponds to UA *kw; thus Tepiman b also corresponds to Hebrew b. Similar to the correspondence of r to y in English creoles, Mayan, Athapaskan, and other language families, Hebrew/Semitic r corresponds to PUA *y for most UA languages. The correspondences for Hebrew *r yield y in most UA languages, r in a few, and d in the Tepiman branch. The vowel i (as in free) is very similar phonologically to y, as realized in repeating the sequence aia quickly, which comes to sound like aya. With those two sound changes in mind (Hebrew b > UA *kw; Hebrew r > UA *y), consider the following:

13. bîl/båsal boil, ripen *kwasî boil, cook, ripen
14. dabbî (Ar) keep locked *cakwa lizard
    dabb/sâb (Ar/Heb)
    *cakwa lizard

A thorough treatment of the labial complexities from a strictly Uto-Aztecan point of view is treated in Stubbs, “The Labyrinth in Uto-Aztecan,” 374–420.

18 A clear correspondence of r to y exists in the Mayan language family.

Lyle Campbell, Quichean Linguistic Prehistory (Berkeley: University of California Press, 1977), 97–100. A less clear correspondence of r to y exists in Athapaskan. Harry Hoijer, Studies in Athapaskan Languages (Berkeley: University of California Press, 1963), 19:

Ingalk: sru̇ bear srâ summer zrun black
Kutchin: syf bear syfâ summer zrei black
Navaajo: sâs bear sî summer zin black

English creoles show similar phenomena: for > fo, fi, foe. Derek Bickerton, Roots of Language (Ann Arbor: Karoma, 1981), 61. So to find an r to y correspondence in the Hebrew-UA connection is not so unusual; nevertheless, though y is the reflex in most of UA, UA *y corresponds to Tepiman d, and r itself appears on occasion in some of the Sonoran languages.

19 Arabic dabh “lizard” and dabb “take hold of, keep under lock, to bolt”; Hebrew sâb “lizard” (< *sabb). (Keep in mind Ar d = Hebrew s.) This is an unusual semantic pair from the same root, which I assume to be understood in the lizard’s grasp being perceived like a lock. Nevertheless, regardless of the semantic connection, UA has the same unusual pair of meanings as Semitic: Ca ca'wta (< *cakwa) “lizard” and N ca'kwa “to enclose, lock up.” Consider also Ls çakwi hold, catch; Cp çakwe “grab, cling to”; Eu capa- “grab,” and Od šâku “hold in the palm,” for Od š = UA c.

20 Hebrew bâsâr “flesh” has a secondary 23:20. In UA it means “tail” in most language, NT. Interestingly, Coptic sat/sât means both language with a similar semantic combination in Lambdin, Introduction to Sudanic Coptic (Max 1983), 266.

21 Hebrew šabbâr (qîtâl impf stem) “to ta break off, tear down, ruin”; Ca sakov “to i”
22 Hebrew dabbâr (qîtâl impf) “to spe SP tikwa “to tell a story. Also of interest, fr dâghâr “word, thing.” Consider Tr tabriti “thing” also the UA *kw correspondence for Hbn correspondence for intercultural nongenital
23 Sem krr/krr (a derived form of kri dance,” SP kiya “to have a round dance.”
24 At mrr/marr “go, travel.” UA *miya Sr mi, miazTo; Tb mi; Od med (remember Od
25 The three diverse semantic dimesnic meaning “select, choose”; the noun Hebrew Hebrew bar “grain.” UA has three similar sets in N kwâ “take”; the meaning of land in UA *khi Tr, Wr, My, Tbr, Cr, and a grain in UA *kwâk Gb, Sr, Hr. In some of those languages, the kw morphemes.
26 Aramaic and late Hebrew šâfiyâ “comb”; Tb siuk “to comb”; Ute šâwi “to comb” 27 Hebrew bâšîr/bâsâr “to enclose, cut kwocayal “to wrap around”; Od bâsî “to come
UA, in which Tepiman b corresponds to Hebrew b. Similar to y/i in English creoles, Mayan, Sume families, Hebrew/Semitic r correspond UA languages. The correspondence in most UA languages, r in a few, ch. The vowel i (as in free) is very as realized in repeating the sequence sound like ay. With those two sound -UA *kW; Hebrew r > UA *y/i, con-

*bwa'yi boil, cook, ripen
d *cakwa lock
*e *cakwa lizard

STUBBS, LET'S VOID THE VOID

15. bāsār flesh, penis *kwasiy tail, penis, flesh
16. šabbēr break *sak'wi break, mess up, sak'way
17. dabbēr speak *tik'wi tell, say
18. krr go in circles, *kiya have a round dance
19. mrr go *miya go, travel, run
20. brr/bar(r) purify, select *kiya land, earth, *kiya grain
21. ūṣ comb, card *siyuk comb
22. bsr cut off, enclose *kwacy wrap around, to corner

20 Hebrew bāsār “flesh” has a secondary meaning of penis (Ezekiel 16:26; 23:20). In UA it means “tail” in most languages, “penis” in Hg, and “flesh” in NT. Interestingly, Coptic sat' Set means both “tail” and “penis,” a Near Eastern language with a similar semantic combination as is found in UA. Thomas O. Lambdin, Introduction to Sahidic Coptic (Macon, GA: Mercer University Press, 1983), 266.
21 Hebrew šabbēr (qīṭṭel impf stem) “to break, break in pieces”; Hg sakwiya “break off, tear down, ruin”; Ca sakway “to mess up” SP āk'wi “crush.”
22 Hebrew dabbēr (qīṭṭel impf) “to speak, talk.” Mn tik'wi “tell, say”; SP tik'wina to tell a story. Also of interest, from the Sem root is a noun Hebrew dābār “word, thing.” Consider Tr ab'ab “thing,” and N tep “small thing.” Note also the UA *kw correspondence for Hebrew doubled bb, and the UA *p correspondence for intervocalic ungeminated Hebrew b (cf. n. 18 above).
23 Sem kkr/kkr (a derived form of krr; see BDB 502) “go in circles, dance,” SP kiya “to have a round dance.”
24 At mrr/mastra “go, travel,” UA *miya “go”; Mn miya; Sh mia; Ute miya; Sr mi, misato; Tb miy, Od med (remember Od d < UA *y).
25 The three diverse semantic dimensions of Semitic bhr are the verbal meaning “select, choose”; the noun Hebrew bar “field,” Ar barr “land,” and Hebrew bar “grain.” UA has three similar sets of meanings: the verbal meaning in N kwi “take”; the meaning of land in UA *kwiya “land, earth, dirt” in Ls, Od, Tr, Wr, My, Trb, Cr; and a grain in UA *kwiya “acorn” in SP, Ute, Cp, Ls, Gb, Sr, Hg. In some of these languages, the kw is combined with other suffixed morphemes.
26 Aramaic and late Hebrew špšaraq “to comb, card”; UA *siyuk “to comb”; Ts zik “to comb”; Ute šapa “to comb”; perhaps Ca šyavis “comb.”
27 Hebrew bsr/bsar “to enclose, cut off, make inaccessible.” Ute kwocay “to wrap around”; Od biš “to corner.” Od b corresponds to UA *kw.
23. bó in it *kwo > in, at28 ko/bo

Semitic roots generally consist of three consonants, which employ a variety of vowelizing patterns for various noun and verb forms. Unless it is a non-qal (not a simple stem) form, only the three consonants will be listed. In the first example of the Hebrew b- UA *kw correspondence, note that Hebrew bśli means both “boil” and “ripen,” and that UA kwasi also means “cook, boil, ripen.” Among the UA correspondences for proto-UA *kw are b in the Tepiman branch, bw in Yq and My, and w in Tr and others, but kw in most UA languages; thus Yq bwase, Od bahi, Tr wasi, and kwasi for most other languages means “cook, boil, ripen.”

As for r > r, note the similar pattern of the Semitic roots ending with double rr consistently matching UA iya (18–20). That the Semitic root brr and the corresponding UA forms kwha have similar sets of three diverse meanings is worth noting: “choose”/“take”; “land”/“land”; “grain”/“acorn.” A similar semantic correspondence appears in Sem dabbal/UA cakwa as both semantic dimensions of “lizard” and “lock/imprison” occur in both language families. Also be aware that Sem and Ar d, s, and s all correspond to Hebrew š and UA c (ts, which is the modern Hebrew pronunciation of š).

The devoicing of Hebrew voiced stops has generally merged them with the voiceless stops in UA: non-dageshed29 Hebrew b and Hebrew w both > UA *p; Hebrew d and Hebrew t both > UA *t; Hebrew g and Hebrew k both > UA *k.

24. gēbīm locust *kēpi locust30
25. danī (Ar) low *tani below31
26. dāyēq siege-wall *tīyiqa wall32
27. daqāl (Ar) palm tree *taku palm tree33

and Od s/s to UA *c. So the consonants all correspond perfectly, though the vowels have other possible explanations.

28 Hebrew bó “in it” actually consists of two parts: the consonant b “in” can be prefixed to any noun or pronoun meaning “in something”; the -o is a suffix for third person singular masculine nouns.

29 See n. 17.

30 Hebrew gēbīm “locust” (C *gēbīm). SP qā:vi “locust” (C *kēpi).
31 Ar dani “low.” N lani “below”; and perhaps UACS #35 *tena “below.”
32 Hebrew dāyēq “siege-wall.” Hq tīyiqa “wall.”

33 Hebrew deqel “palm tree”; Ar daqāl ‘My, Tr, Wr, Eu, Trb, and Hch. We would norm two are close; either a Spanish-speaking or Spanish influence changing t to u could explain.

34 Hebrew dqerdaqar “pierce.” UA tekī Od čekid “vaccinate, drive a stake”; Ca čekik consonant, since Od d corresponds to UA t corresponding to UA t before high vowels.

35 Hebrew hēš and hēši “arrow.” UACS Od ṣas arrowhead, Sb ṣāc. Od Š and Sr c both are all these forms plus others show initial hu/ha fo quite nicely to UA *huc(i), exactly as expected.

36 Hebrew ḥrk “set in motion”; Ar ḥarw 3yōg-at/3yōk “be moving”; Hp hoyo (sg.), Hq hoyo (pl.).
37 Hebrew ḥpp “rub, cleanse.” Tr ḥba “bathe”; Yq ḥba “bathe”; My ḥba “bathe”; Hq ḥba “cover or smear” (with c).
38 Hebrew ḥmr “to play the pipe.” Tp ḥmr “to play the pipe.”

39 Hebrew ḥll “to cough.” UACS #35 ḥtah “to cough.” Tp ḥtah “to cough.”
40 Hebrew ṣrh “cry, roar.” Tp ṣāy “yel.

41 Hebrew impf yismah “sprout” (of to grow). Nouns in various UA languages meaning explanation.

42 Hebrew šl “rush.” N colōd “flee, run
*kwo > in, at 28
ko/bo

consist of three consonants, which patterns for various noun and verb (not a simple stem) form, only the. In the first example of the Hebrew note that Hebrew bâl means both UA kwaśl also means “cook, boil, spondences for proto-UA *kw are b Yq and My, and w in Tr and others, s; thus Yq bwasê, Od bâhi, Tr wasi, guages means “cook, boil, ripen.”
lar pattern of the Semitic roots endly matching UA iya (18–20). That corresponding UA forms kwiya have erse meanings is worth noting:
and; “grain”/“acorn.” A similar pears in Sem ȣâbba/UA cakwa as of “lizard” and “lock/imprison” es. Also be aware that Sem and Ar ãl, Hebrew s and UA c (ts, which is the n of s).

voiceless stops has generally merged s in UA: non-dageshed 29 Hebrew b Hebrew d and Hebrew t both > UA oth > UA *k.

*kipi locust 30
*tani below 31
all *tiyîqa wall 32
*âe *taku palm tree 33

means all correspond perfectly, though the ations.
consists of two parts: the consonant b “in” noun meaning “in something”; the -o is a culine nouns.

*gekim). SP qìi “locust” (< *kipi).
clow; and perhaps UACS #35 *tena “below.” ” Hp ñiîqa “wall.”

STUBBS, LET’S VOID THE VOID

28. dqr/ðaqar pierce *tikîy cut, stick in 34

Both of the Hebrew pharyngeals generally cause rounding.
The Hebrew voiceless pharyngeal fricative h corresponds to UA ho/ho (usually in initial position) or a round vowel o/u/w without the h quality.

29. hêš arrow *huc arrow 35
30. hrk/hârak vi. move *hoyok vi. move 36
31. hpp rub, cleanse *upa bathe 37
32. hmr smear *humay smear 38
33. hîl play the pipe *ululú play the flute 39
34. ðhî (Ar) cough *ohohó cough 40
35. sîh cry, roar *cayau cry, yell 41
36. ñmh/ûšmah sproat *icmo-lini sproat, grow 42
37. sîl rush *coloa flees 43

33 Hebrew deqel “palm tree”; Ar dâqal “palm tree.” UA *taku “palm tree” in My, Tr, Wr, Eu, Tbr, and Hch. We would normally expect ã instead of u, but the two are close; either a Spanish-speaking ear not hearing the distinction or Spanish influence changing ã to u could explain it.
34 Hebrew dâqâl “pierce.” UA *teki “cut”; N têki “cut”; H pêki “cut”; Od têkid “vaccinate, drive a stake”; Ca ñêki/ñêki “stick in.” Od shows the third consonant, since Od d corresponds to UA ã and Hebrew r, as well as Od c corresponding to UA ã before high vowels.
35 Hebrew hêš and héš “arrow.” UACS #9 arrow: SP uc; Hp ho-hi; NT ui; Od ūs arrowhead; Sr hese. Od ã and Sr ã both equate to final c; Hp o = PUA *u; and all these forms plus others show initial hu/ho for the pharyngeal h; thus, all add up quite nicely to UA *huc(h), exactly as expected for Sem hëš(h), since in hypothetical *huce(h), the second vowel of a diphthong seldom survives.
37 Hebrew hpp “rub, cleanse.” Tr ñbâ “bathe”; Wr ñip “bathe”; Eu ñbâ “bathe”; My ñbba “bathe”; Hch ñîva “bathe.” Hch i = PUA *u.
38 Hebrew hmr “cover or smear” (with asphalt). Ca humay “smear, paint.”
39 Hebrew hîl “to play the pipe.” Tb lâlu/ñâlu “play the flute,” and others.
40 Ar ñhû/ñhah “to cough.” UACS #105 to cough: Hp ñhûh-ñ-ta; Ca ñhûh; Tb ñhû/ñhûh; and others.
41 Hebrew sîh “cry, roar.” Tb cayu “yell.”
42 Hebrew impf yûšmah “sproat” (of trees, grass); N icmo-lini “sproat, grow.” Nouns in various UA languages meaning “grass” also fit, but require more explanation.
43 Hebrew sîl “rush.” N color “flee, run swiftly.”
The Hebrew voiced pharyngeal—the Semitic ʾēn—is a deep back guttural (voiced pharyngeal fricative) that simply yields rounding in UA—o, u, w—like the other pharyngeal.

38. ʾṣq  cry out *coak  cry
39. ʾṣg c  be mad *siko[  feel envy, suffer
40. ʾṣ  delight in *ta-soa  cherish, value, love
41. b  swallow *kwilo  taste
42. rega c  (in a) moment *rīko  shortly, soon
43. ʾṣwʾr  hair/be hairy *suw/swi  hair
44. naʾr  boy *nowi  have a son
45. yaʾr  forest *yuy  evergreen tree
46. ʾdʾk  to go out *tuk  go out (of fire)
47. ʾps c  to bruise *pācoāl/pāciwi  to bruise
48. ʾiyʾālāh  go up *wal  go up

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44 Hebrew ʾṣq̱  “cry, cry out, call.” UACS #114 ʾcoak  “to cry.”
45 Hebrew ʾṣg̱  “be mad.” N sikoa “feel envy, suffer.”
46 Hebrew ʾṣ  “delight in.” N ʾaa-soa “love, value, cherish.”
47 Hebrew b  “swallow.” Hp kwilo “to taste”; Tb welah “swallow” (UA *kw = Tb w).
48 Hebrew rega c  “(in a) moment.” Tr rekā “soon, in a short time.”
49 Hebrew ʾṣwʾ  “hair.” As ʾaʾr  “hair”; ʾaʾr  “be hairy.” UA *swi “hair” in several languages.
50 Hebrew naʾr  “boy, young man”; naʾr  “girl.” Tr nowi “have a son”; Tr no “son”; Wr nu ʾnūhun “child”; UACS #474a ʾnawi “girl”: Pn naviccibi; Tb ʾnāwi; Ls nawi; Cn nawi-mal.
51 Hebrew yaʾr  “forest, wood.” Ca yuyi-l “California Juniper”; Ca yuyiwaš “pines with long needles”; SP ywĕl “long-needled pine” (w > v in SP); Hp yo-yolo “chimpmunk” (< tree-inmards).
52 Hebrew ʾdʾk  “to go out” (of fire). UA *tuk “to go out” (of fire); SP tkwa; Ca nq; Od cuk. Also UA *tuk “become dark, night.” “Black” in several languages.
53 Hebrew ʾps c  “to bruise.” N pāco “to bruise”; N pāciwi “be bruised.”
54 Hebrew ʾyʾālāh  “to go up, ascend, climb.” Ca wel “rise up high, grow”; Tb ʾol “get up, fly”; Hp ʾolaq “upward” (-olaq = toward); N wal “come/hither”; however, in Nahautl compounds the general meaning of “go up, increase” is left after subtracting the meaning of the other compounded element:

N walkisa “come up” (of sun, or out of water) (N kissa come out);
N waleASI “to fall from a high place” (N wesi fall);

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49. maʾālāh  stairs, ascent
50. ʾgz  grow old (of women)
51. dʾwʾdaʾ (Ar) to name

Note the consistent pattern that and third consonants in Hebrew (4 (“hair, boy, forest”). Most interest is “be hairy” yields a unique set Hebrew words meaning “hair,” “b grain”), and a “buck-goat” (as a same three semantic categories are sowi: sowi “hair”; sowi wa “a poor sowi-t “jackrabbit”; sowi wa “deer.” Besides a three-way semantic correspondence as expected: ʾs > s; ʾ > o/w; r > r.

The Semitic ʾaleph or glottostop effect in UA, as it is in Semitic on N tusawwala.

52. ʾārī  lion wo
8. ʾādam  man *o

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N wallaši “to augment, increase” (N laši
Consider also, in connection with the t smoke, sacrifice” (participle maʾālāh), Wr m
Hebrew maʾal “upward, above” and Tr moʿup
55 Hebrew maʾālāh “steps, stairs, ascent” “to have an ascent or climb” (of a road, p...
56 Ar ʾagaza “to grow old” (of women; wegaza “to grow old” (of women); Od ok “ol...
57 Ar dʾwʾdaʾ “to call, summon, name” common UA word has either a nominal or languages.
58 Hebrew ʾārī “lion.” Wr wori “mourn...
ngeal—the Semitic *ain—is a deep ingle fricative) that simply yields e the other pharyngeal.

*pâcoä/*
*pâciwi
*wal go up

out, call.” UACS #114 *coak “to cry,”
*soo “feel envy, suffer.”
*soa “love, value, cherish.”
*pâo “taste”; Tb welēkh “swallow” (UA em.” Tr rekō “soon, in a short time.”
irṣa “hair”; &ha “be hairy.” UA *suwi
man”; maṣra “girl.” Tr nowi “have a son”; Tr
UACS #472a *naawi “girl”: Pn nawicibi; Tb
*ud.” Ca yuyi-l “California Juniper”; Ca
SP püvi “long-needed pine” (w v in SP);
*fire. UA *tuk “to go out” (of fire): SP tkwa;
“become dark, night.” “Black” in several
*pâcoä “to bruise”; N pâciwi “be bruised.”
up, ascend, climb.” Ca wel “rise up high,
*miq “up-toward” (*miq = toward); N wal
: compounds the general meaning of “go up, e meaning of the other compounded element;
* out of water) (N kisa come out);
place” (N weci fall);

49. maʕālāh stairs, ascent iʔmola stairs
50. ʕgz grow old *wɪgaca grow old
(of women)
(of women)
51. dʕw/daʕ (Ar) to name tũwa name

Note the consistent pattern that when c and r are the second and third consonants in Hebrew (43–45), that UA shows nwi/ny (“hair, boy, forest”). Most interesting about 43 is that the root ʕr “be hairy” yields a unique semantic combination in three Hebrew words meaning “hair,” “barley” (as “hairy or bearded grain”), and a “buck-goat” (as a hairy animal). Note that the same three semantic categories are contained in the Hopi stem sowi: sowi “hair”; sowiwa “a poor grade of corn” (hairy grain); sowi-t “jackrabbit”; sowiʔwa “deer” (both as hairy animals). Besides a three-way semantic correspondence, all three consonants agree as expected: ś > s, ʕ > n/w, r > i.

The Semitic aleph or glottal stop (ʕ) is also prone to rounding effect in UA, as it is in Semitic on occasion (e.g., Ar sa’ala, and V tasawwala).

52. ʔārī lion wori mountain lion
8. ʕadjān man *otam man, person
Od, NT, ST

N wallalā “to augment, increase” (N ʔalā “to be placed, situated”);
Consider also, in connection with the hiqil meaning of “cause to go up in smoke, sacrifice” (participle maʕāleḥ), Wr molo “to make smoke.” Consider also Hebrew maʕal “upward, above” and Tr mo “up, upward.”

53 Hebrew maʕālāh “steps, stairs, ascent.” Wr iʔmola “stairs”; Wr iʔnolan-i “to have an ascent or climb” (of a road, path).
54 Ar ʕagaza “to grow old” (of women); ʕagāz “old woman, old man.” Tr węgaca “to grow old” (of women); Od őks “old woman.” The Semitic and Tr verbs not only match phonologically and semantically in “grow old,” but specifically of “women.” The Od form may also be a likely match in that Od ő corresponds to UA ʕ; thus, outside of a vowel reduction between the two consonants, Od as well as some of the following may be connected with this root also: UACS #473 ʕok “woman”; NT őks; Cr ʔika-ri “old woman”; Hch ʔikā. Perhaps also N oık-ʔi “man,” if originally “old man.”

55 Ar dʕw/daʕ “to call, summon, name.” UACS #300 *těwa “name”; this common UA word has either a nominal or verbal reflex in a number of UA languages.
56 Hebrew ʔārī “lion.” Wr wori “mountain lion”; cognate forms also in Tbr, Yq, and My.
53. ṭs man *wisi person Tr^59
54. ṭš- woman *witi woman Hp^60
55. gâ'/gâ'āl buy, redeem *kowa buy^61
56. qr^3 (Heb/Ar) call, cry te-koyoā howl N koyo-λ coyote N^62
57. pl^3/pâlā be wonderful *palaw be pretty Ca
58. nb (Ar) tell, inform navo- learn by hearing Hp
59. pâ'āh corner, sideburn powa/po'ā hair (several
60. *pa'î (Ar) mouse puwe/-pu'î- 
61. qâ'āz nut *woko pinion pinenet and tree (several)
62. ya-āmîn he believes yawamin believe Sr
63. ya-āmîn-ô he believes it yawayno believe it Gb
64. kam^2 (Ar) truffle kamo-λi sweet potato N; kama'ātu(m) kamwah sweet potato Cr
65. tirmania truffle tūmā/timôn potato Hp^65

The two forms for believe (62–63) are especially striking. First of all, seven segments (vowels or consonants) are present in the Hebrew form—four consonants and three vowels. All seven segments (of the third person masc. sg. Hebrew form ya-āmîn) match exactly as expected in the Sr form (yawamin). With four consonants and three vowels, the probability of a word as lengthy

59 Hebrew ṭs “man”; with negatives “no one.” Tr ṭesi (<*wisi) “someone”; with negatives “no one.”
60 Hebrew ṭš/ṭš- “woman, wife.” Hp ｗiti “wife.” All quite as expected, if from the possessed form ṭš-, since š in clusters disappears but often leaves its trace in the vowel i. Perhaps SP wiči “great grandmother.”
61 Hebrew gâ'/gâ'āl “redeem, pay for.” N kowa “buy”; Ca ʾāhwe “buy.”
62 Hebrew and Ar qr^3 “call, cry.” N te-koyoā “howl”; N koyo-λ “coyote.”
63 Hebrew pl^3 “corner, sideburn.” UA *powa/po’ā “hair” in several
languages.
64 Ar *pa'î “mouse.” Mn puwe-; SP pu'-; Ute pu'aw'; Sr pa's; Hp pōhsa all meaning “mouse.”
65 The term tirmania “truffle” is probably not of Semitic origin, but it is a Mediterranean term for a kind of truffle, whatever its origin. Charles Heimisch, The Encyclopaedia Americana (New York: Americana Corporation, 1962), s.v. “truffle.”

66 N cawa “spin”; Od ʒō(m) “sew a s
67 Hebrew hît “thread, cord”; Ar ṭay Sr wiek^2-t; Mn wihs; My witeri, wî; Hch reflex for Sem t would be UA c; UA shows phonological mean; as well, UA within it

as the Sr form, in light of 12 pr
d vowels, aligning with the Hebrew and a half million (1/12 x 5 x
2,592,000). The Gb form lost a profoundly compelling for a Heb
ferent meaning: “believe it,” inst
person singular object to a verb yields “he believes him/it.” And i
(“believe it”) and exactly the F
meaning that includes an object. F
might mention that most of the di
UA is fossilized rather than prodi
ized Hebrew morphology, the fas
 astounding in themselves.

Note also the two Near East wo
UA words for potato. Tirmania is an
East word for truffle. Though exactly the same thing, they are appeneded to a root system growing
words for potato similar to two

Somewhat similar to the corre
German ss in foot/fuss and street/
emphatic ʂ (see the appendix) both
sometimes s, though s/c alteratio
also. Following are examples of er

66. ṭl (Ar) sprinkle/
drizzle
67. ʿabatîf/ biṭîf (Ar) melon
68. ṭwî/ ṭawâ (Ar) spin (thread)
69. ʾf/m taste, eat
70. ṭūt/xayît thread, twine
as the Sr form, in light of 12 proto-UA consonants and 5 PUA vowels, aligning with the Hebrew form by chance is one in two and a half million (1/12 x 12 x 12 x 12 x 12 x 5 x 12 = 1/2,592,000). The Gb form lost only m (yawain < yawanin), but profoundly compelling for a Hebrew connection is its slightly different meaning: “believe it,” instead of “believe.” To add a third person singular object to a verb in Hebrew, -o is suffixed, which yields “he believes him/it.” And in Gb we have both the meaning (“believe it”) and exactly the Hebrew suffix (-o) to match the meaning that includes an object. Fossilized as the morphology is, I might mention that most of the discernible Semitic morphology in UA is fossilized rather than productive. And as examples of fossilized Hebrew morphology, the Sr and Gb pair (62 and 63) are astounding in themselves.

Note also the two Near East words for truffle that are similar to UA words for potato. *Timania* is not a Semitic word, but is a Near East word for truffle. Though the truffle and potato are not exactly the same thing, they are both fleshy edible nodules appended to a root system growing underground, and UA has two words for potato similar to two Mediterranean words for truffle.

Somewhat similar to the correspondence of English t and German ss in foot/feet and street/strasse, Hebrew emphatic t and emphatic s (see the appendix) both generally correspond to UA c, sometimes s, though c/s alternations are common within UA itself also. Following are examples of emphatic t:

66. **tīl (Ar)** sprinkle/ drizzle **cōlōlo** sprinkle/ start raining (Hp)
67. **bītīḥ (Ar)** melon **baci** pumpkin (Tr)
68. **tawā (Ar)** spin (thread) **cawa** spin (thread)66
69. **tām** taste, eat **cu’mi** sip (Wr)
70. **hāt/xayt** thread, twine **wic** string67

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66 N cawa “spin.” Od ṣās(m) “sew a seam on.”
67 Hebrew ḥāt “thread, cord”; Ar xayt “thread, twine.” UACS #419 string: 
Sr wix; Mi wisi; My witeri, wix; Hch wita; Wi wohi “cord.” The expected reflex for Sem t would be UA c; UA shows t, c, and s, of which c is somewhat a phonological mean; as well, UA within itself has many c/s or c/t alternations.
71. ḥaṭab (Ar) firewood  *ucakwí resin, pitch* 68
72. maṭṭeh branch, rod ko-maci firewood 69
73. tāḥal dip s.th. čakwí- soak s.th. (N)

Hebrew initial r corresponds to UA r in initial position, except in Tr, in which it remained r:

74. r’y/ra’āh see  *tīwa see, find (several languages)
75. rāḥab/rbb shoot (an arrow) *tokwa snap (of bow)* 70
76. r’m to thunder *tom thunders, cloud, winter* 71
77. rbt (Ar) to tie, bind *tapic to tie* 72
78. raḍa’i sky *tuku sky (several languages)
79. rś* bad, wicked *tśw cause/do bad* 73
80. rājul (Ar) man *tīhoy man* 74

Many Semitic roots of medial semivowel can show both w or y; the UA forms agree with y.

68 For Od ušabi “resin, pitch,” the š of Od corresponds to UA c, so all is as expected, though most non-dagesh Hebrew b’s would be p/v in Od rather than b (=UA g’w).
69 Hebrew maṭṭeh “staff, rod, branch.” Hp komaci “firewood” (*ku/kko = fire). 70 Two closely related roots, Hebrew rbb/rāḥab/rbb “shoot” and Hebrew rhy/raba “shoot” compare with Ute tōkwa “snap” (of bow) for the doubled b and Ch tavi “hit, stone s.th.” for the second form, as well as perhaps Hp tīwa “throw” and several other UA languages.
71 Hebrew r’m “to thunder”; Hebrew rāṭam “thunder,” n. Sh tōmpai “thunder”; Ca tawwa-l “thunder”; Od toṣhām “thunder”; words for “thunder,” “cloud,” and “winter” seem to overlap in UA. (Hp L < *w) UACS #93 *tōm “cloud”: Mn tō “cloud”; Mn tō-yakqa “thunder”; Cs tomac- “cloud”; Ls tōma-wat “thunder”; ST tawə; Wr tōmə “cloud.” Miller also compares these forms with UACS #467 *tomo “winter” (several languages).
72 Ar rḥaba/raḥab “to tie, bind.” UACS #438 *tapi/tapic “to tie”: SP tahpica:- Cr rātapi ʾste; Hch -tapi “knot, tie a knot.”
73 Hebrew rś* “be wicked, guilty.” Tr rasewa “fornicate”; Tr rasewa-me “permissive person”; Th rāswun “cause s.o. evil”; Tr tī “be bad”; SP ṭissu’al-na’š “not heeding, paying no attention”; perhaps Tr risiwa/risoa “pain, suffering, hardship.”
74 Ar rajul “man” (<*ragal). Tr rəhoy “man”; Wr tīhō “man”; Od ce’bı’ “man”; Kiowa təgul “young man.” The three UA forms (Tr, Wr, Od) point to *tīhoy, suggestive of Sem ragul, with a change of g > h, and l > y/le like r

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81. rōṣ head
82. ḍənāb-ōt rabbits

The velar and uvular stops—glottal stop (?) or nothing in initia-
ters.

83. kānāp wing *
84. kinnim gnats *
85. geled/gild skin *č*
86. gill/goll “roll”/“ball” *č*
87. qārūb “near, soon” *ą*
88. qereb midst, inside *ą*
89. maṭtšīs “mortar, *ą*
90. kākī grinding stone
91. -kem, -kum you, your sg. *ą*

The term for grinding stone (languages; in fact, the Aztec word n (which happens often but is not treated consonant’s sound change could use str however, are common and consistent. Most *tīhoy “man” is Kiowa təgul “young ma consonants, including the g and l (initial vowel assimilating to the second.
75 Hebrew rōṣ “head”; Ar ra’as “head,” short paper does not allow treatment of all and 54 are additional examples that are corresponding to Numic c.
76 Hebrew kānāp “wing.” UACS #4 “feather”): Tr ḫara; Hch ḫana; SP ḥəɾəp among others. SP and Tb show the third consonant second.
77 Hebrew kinnim “gnats.” UACS #2 Cm ḫimim; Cr ḫana.
78 Hebrew geled/gild- “skin.” Od te-
79 Hebrew gill/goll “to roll”; gullāh gel/galal (ball of) “dung.” Hp ḥol “loop, tire”; Hp ḥiḥi “bend”; Od ḥa “ball, sphere
80 Hebrew qereb = “inside.” Tepiman
The velar and uvular stops—k, q, and g—often reduce to glottal stop (ʔ) or nothing in initial position or in consonant clusters.

83. kānāp wing 84. kinn̠am gnats 85. geled/gild skin
86. glō/golla roll/ball 87. qār̃b near, soon
88. qereb midst, inside 89. makt̄es mortar,
90. kā/kī you, your sg. 91. k-em, kum you, your pl.
92. mor head 93. mor-to head(s) (several languages)
94. ʾanap wing 95. ani mosquito
96. ʾel d skin 97. ʾayobe soon (Tr)
98. ʾir̄ap in the middle of 99. ʾamta- grinding stone,
100. ʾem you, your sg. 101. ʾim you, your pl.

The term for grinding stone (89) is found throughout UA languages; in fact, the Aztec word me'la-λ is the source for metate,
borrowed into Spanish and English. Though *mata is the usual reconstruction, the forms Tr ma'ta, Wr mahta, Od maccud, and My matta all suggest a consonant cluster, with Tr showing something very much like k, since k in a cluster becomes a glottal stop very often, not only in this connection, but in English (dictate > di'tet), Polynesian, and many other languages. In addition to the word for mortar or grinding stone matching quite well, two verbs in UA languages match the Hebrew perfect and imperfect, respectively. Hebrew maktēš is a nominal form from the verb kīs “pound, Bray, grind”: Aramaic kōtaš; Hebrew kātaš. The imperfect stem in Hebrew is -ktōš and no less than 17 UA languages have forms showing *tus “grind,” which is exactly what we would expect with the general rising of vowels (though Hebrew o < *u of proto-Semitic) and the disappearance of k in a cluster (-ktōš > tūs > tus), as it also disappeared in the noun forms (maktēš > ma'ta). In addition, consider Yq kīte “grinding flour” and Yq kititasu “make into pieces.” Though this stem does not exhibit the qītīl form in the Masoretic text, the Yq forms match qītīl forms of the perfect.

Consider the likelihood of all this matching by chance:

<table>
<thead>
<tr>
<th>Hebrew</th>
<th>singular</th>
<th>plural</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tb</td>
<td>imbi</td>
<td>imt</td>
</tr>
<tr>
<td>Ch</td>
<td>ʾīmi</td>
<td>ʾīm</td>
</tr>
<tr>
<td>Hp</td>
<td>ʾīm</td>
<td>ʾīm</td>
</tr>
<tr>
<td>Yq</td>
<td>ʾempo</td>
<td>ʾēm</td>
</tr>
<tr>
<td>SP</td>
<td>immi-</td>
<td>mw</td>
</tr>
<tr>
<td>Cp</td>
<td>i-ļ-e-ļ'e</td>
<td>īm</td>
</tr>
<tr>
<td>Ca</td>
<td>ʾe</td>
<td>ʾer</td>
</tr>
<tr>
<td>Hp</td>
<td>ʾī-</td>
<td>ʾīm</td>
</tr>
<tr>
<td>Cr</td>
<td>mu'ē</td>
<td>mu</td>
</tr>
<tr>
<td>Yq</td>
<td>-a'ē</td>
<td>-a'ē</td>
</tr>
<tr>
<td>My</td>
<td>ʾe</td>
<td>ʾer</td>
</tr>
<tr>
<td>Heb/Sem</td>
<td>ʾkāl- k(i)</td>
<td>kes</td>
</tr>
</tbody>
</table>

Given k > 2, those UA language singular and plural distinction as correlate with something similar to as English pl. you replaced sg. ti such that sg. and pl. you in Eng originally only plural, likewise hal line appear to derive both their s from the plural as seen by an abun- ral in Hebrew (and UA). Howe- below the line—are to have ma- tion, as seen by lack of final in- clusion of final m's in the plural.

Though UA second person Hebrew suffix pronouns, one U independent/subject pronouns an pronouns for second person plu- forms:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>92. Ar/PrSem</td>
<td>ʾantum (indep pmn)</td>
</tr>
<tr>
<td>Heb</td>
<td>ʾatto (indep pmn)</td>
</tr>
<tr>
<td>Ar/PrSem</td>
<td>-tum (sbj pmn on pf)</td>
</tr>
<tr>
<td>Heb</td>
<td>-tem (sbj pmn on pf)</td>
</tr>
<tr>
<td>Tarahumara</td>
<td>tumuhe (sbj pmn)</td>
</tr>
</tbody>
</table>

Pronouns

In any comparative study, pronouns are an important consideration. Elaborating on the second person pronouns cited above (90 and 91), we note that the UA second person pronouns correspond to the suffix (object and possessive) pronouns of Hebrew. Consider a more complete array of forms:
Though *mata is the usual na'ta, Wr mahta, Od maccud, and ant cluster, with Tr showing some in a cluster becomes a glottal stop, but in English (dictate > other languages. In addition to the tone matching quite well, two verbs in Hebrew kā'as; Hebrew kā'as. The imper- 2nd no less than 17 UA languages with vowels (though Hebrew o he disappearance of k in a cluster o disappeared in the noun forms consider Yq kitte “grinding flour” iees. Though this stem does not Masoretic text, the Yq forms match all this matching by chance:

<table>
<thead>
<tr>
<th>Yq</th>
<th>singular</th>
<th>plural</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tb</td>
<td>imbi</td>
<td>imbūmu</td>
</tr>
<tr>
<td>Ch</td>
<td>ili</td>
<td>mimi</td>
</tr>
<tr>
<td>Hp</td>
<td>ām</td>
<td>āma</td>
</tr>
<tr>
<td>Yq</td>
<td>āempo</td>
<td>āme'ēe</td>
</tr>
<tr>
<td>SP</td>
<td>immi-</td>
<td>mwīmmwi</td>
</tr>
<tr>
<td>Cp</td>
<td>i-ē/fe'ē</td>
<td>imi-ēme/-em'ēm</td>
</tr>
<tr>
<td>Ca</td>
<td>āe</td>
<td>āem</td>
</tr>
<tr>
<td>Hp</td>
<td>āi-</td>
<td>āmi- (possessive pronouns)</td>
</tr>
<tr>
<td>Cr</td>
<td>μu'ē</td>
<td>μu'ēn</td>
</tr>
<tr>
<td>Yq</td>
<td>-a'ē</td>
<td>-a'em (enclitic pronouns)</td>
</tr>
<tr>
<td>My</td>
<td>-ē</td>
<td>-ēm (enclitic pronouns)</td>
</tr>
<tr>
<td>Heb/Sem</td>
<td>-kā/-k(i)</td>
<td>-kem/*-kum</td>
</tr>
</tbody>
</table>

Given k > 2, those UA languages below the line show a similar singular and plural distinction as Hebrew. The others appear to correlate with something similar to what happened in English; just as English pl. you replaced sg. thou as second person singular, such that sg. and pl. you in English both derive from what was originally only plural, likewise half the UA languages (above the line) appear to derive both their second person sg. and pl. forms from the plural as seen by an abundance of m, which signifies plural in Hebrew (and UA). However, some UA languages—those below the line—appear to have maintained the singular-plural distinction, as seen by lack of final m in the singular forms, but inclusion of final m’s in the plural forms.

Though UA second person pronouns generally parallel Hebrew suffix pronouns, one UA language shows both the independent/subject pronouns and the above object/possessive pronouns for second person plural. Consider the Tarahumara forms:

92.

| Ar/PrSem | ʔantum (indep prn) | -kum (obj/suffix prn) |
| Heb      | ʔattem (indep prn)  | -kem (obj/suffix prn) |
| Ar/PrSem | -tum (sbj prn on pf v) |
| Heb      | -tem (sbj prn on pf v) |
| Tarahumara | tumuhe (sbj prn) | emi (dative/obj prn) |
The above are a profound match of subject pronouns (left column) and object pronouns (right column) for Semitic and Tarahumara. In addition to the subject pronoun suffixes for perfect verb forms, Hebrew also has prefixes on imperfect verb forms, and the second person singular Hebrew prefix is identical with the Nahuatl second person singular prefix (ti-):

93. Hebrew | Nahuatl
---|---
verb stem -rbaș | -koč
you sg. ti-rbaș | you sg. ti-koč

The above verb, by the way, also corresponds. The consonant cluster in Hebrew causes a dagesh (doubled) $b$, which in turn corresponds to UA $kw$, and $r$ (which is $yi$ in UA) after $i$ is basically invisible, and the vowel reduces or assimilates to the $kw$, as happens often in UA itself. Thus Hebrew $ti$-$rbaș > *ti$-$kwec > *ti$-$kw > N ti$-$koc$.

Unlike other UA languages, whose pronouns agree more with Hebrew independent and suffix pronouns, Nahuatl singular pronouns parallel Semitic imperfective verb prefixes, as if derived from a verb form:

94. NW Sem sg. | NW Sem pl. | Nahuatl
---|---|---
1st person $e/-a$- | $i/-na$- | ne$wa$ I
2nd | $ti/-ta$- | $ti/-ta$- | te$wa$ you
3rd | $yi/-ya$- | $yi/-ya$- | ye$wa$ he

Note the pattern of $n$ as first person, $t$ as second person, and $y$ as a third person consonant in both Nahuatl and Semitic, though the 1st person singular verb prefix in Semitic is an exception. Moving from second person to first person pronouns, consider some UA first person singular pronouns (I, me, my):

95. Independent (I) suffix (object and possessive: me, my)
Heb $^2$ān$ī$, $^2$ānōki $-nî$, $-î$
Ch nî
SP nî
Tb nik
Hp n$^p$ i-
Ca ne$^3$
Od $^2$ānî
Tr ne

96. One other first person pro addition to independent pronoun object/possessive suffixes, Hebrew nouns in the form of $tî$ “me,” Though I have not noticed any “me”—is quite comparable to the of Tr $tî$ “me,” only missing the $f$ lack first segments in comparative

Many third person pronouns a

97. sg. he/she/him, his | Semitic hu/huwa/hi/hiyal/-ô
SP $u$-wa
Yq hu (that) $h$
Ca he-, hi-
Hp

These four languages represent UA—Numic, Sonoran, Takic, actions of third person pronouns in by demonstratives, thus eliminating, however, many of those demonstratives similar to Semitic third person pro pronominal systems of UA “have cation, so that definitive reconstruction research.”

That is exactly $c$ Semitic-looking elements are to be items, though mixed considerably $t$ characteristics—thus again the conclusion kind.

**Var-consecutive Fossilized i**

98. A partial and oversimplified secursive in Hebrew is that a prefix stems to past. Most Nahuatl verbs $t$ o- and dropping the last vowel:

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96. One other first person pronoun in Tr is highly specific. In addition to independent pronouns, subject-of-verb prefixes, and object/possessive suffixes, Hebrew also has nonaffixed object pronouns in the form of ṣṭi “me,” ṣṭo “him,” ṣṭa “her,” etc. Though I have not noticed any of the others, the first—ṣṭi “me”—is quite comparable to the Tr accusative (object) pronoun of Tr ti “me,” only missing the first segment (ο), but Tr tends to lack first segments in comparative UA as well.

Many third person pronouns appear similar as well:

97. sg. he/she/him, his  pl. they/them/their
   Semitic hu/huwa/hi/hiya/-ə  hēm/hum/-ām
   SP  ụnwa  humwi
   Yq  hu (that)  hume (those), əm, -ame
   Ca  he-, hi-  hem-
   Hp  əm

These four languages represent four separate branches of UA—Numic, Sonoran, Takic, and Hopi respectively. The functions of third person pronouns in UA languages are often served by demonstratives, thus eliminating older third person pronouns; however, many of those demonstrative pronouns (that/those) are similar to Semitic third person pronouns. As Langacker notes, the pronominal systems of UA “have undergone extensive modification, so that definitive reconstruction will have to await extensive research.”81 That is exactly correct; nevertheless, numerous Semitic-looking elements are to be found in UA pronominal systems, though mixed considerably with other, non-Semitic characteristics—thus again the conclusion of substantial mixing of some kind.

Vav-consecutive Fossilized in Nahuatl

98. A partial and oversimplified explanation of the vav-consecutive in Hebrew is that a prefixed wa- changes imperfect verb stems to past. Most Nahuatl verbs form the past tense by prefixing o- and dropping the last vowel:

**peława**
undress
(o- pław-
undressed
(if not 3rd sg., insert pron.)
neki
want
(chew)
(posoni
boil
(o-poson-
boiled, bubbled
(of liquid)

In Hebrew, the jussive is used with the vav-consecutive, and the jussive also drops existing final vowels in Hebrew and Arabic, as do the Nahuatl verbs with prefixed o-:

<table>
<thead>
<tr>
<th>Heb prefix</th>
<th>Heb wa- juss</th>
<th>Ar indic</th>
<th>Ar juss</th>
</tr>
</thead>
<tbody>
<tr>
<td>yisbeh take captive</td>
<td>wa-yisb took captive</td>
<td>yaktub write</td>
<td>yaktub</td>
</tr>
</tbody>
</table>

For wa- to become o- is natural enough. Consider Spanish *ojalá* “would that” from Arabic *wa-sa'a-allah* “and if God wills.” Therefore, the Hebrew vav-consecutive and the Nahuatl past tense have these things in common: they both prefix rounded elements (wa- and o-), then a pronominal prefix, then the stem, then they both drop final vowels, and they both change an imperfect stem to perfect (loosely stated).

99. Another curious set in UA which parallels Hebrew morphology has to do with the Hebrew root *nk/y/nk* “to smite.” This stem does not appear in the simplest or *qal* form in Hebrew much, but is very commonly used in the *hiqufil* and *huqatal* in Hebrew. Forms parallel to the Hebrew participles of *hiqufil* and *huqatal* are also common words in UA languages.

The Hebrew participles are *makk* (< *mankey*) “smiter, smiting” and *mukke* “(one) smitten.” One of the most pervasive stems in UA is *muki* “die, be sick, dead” found in no less than 13 UA languages (UACS #128a), which matches the passive (*huqatal* participle *makke*) both phonologically and semantically. In addition are words in several UA languages reconstructing to *mek* “kill” (UACS #128d) and *mak* “hit” (UACS #233), which again parallel the Hebrew active participle (Hebrew *makke*), both phonologically and semantically. The Cahuita pair show both in the same language: Ca *muk*- “get sick, die”; Ca *mek-“kill.” (Again note the general rising of vowels in the changes from Semitic to UA.)

Another dimension of the Hebrew verb is “punish, send judgment.” In light of that compare the Nahuatl *na-* form: N *miki*

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82 Hugh W. Nibley, “Lehi and the i” Mormon, 3rd ed. (Salt Lake City: Deseret...
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“die”; N na-miki “bring upon oneself, incur a fine or punishment.”

The similarities (lexical, morphological, and semantic combinations) between UA and Semitic number about 1000. Therefore, this brief summary contains only 10% of them. One question that naturally comes to the mind of an Hebraist or Semitist is the lack of some of the basic words, such as šemēš “sun” and yād “hand.” Three possibilities come to mind. First, as emphasized throughout this paper, UA is not solely descended from Hebrew in any sense, but rather appears to have a Northwest Semitic element that has mixed heavily with non-Semitic elements. Second, UA could be more a Mulekite base with a Lehite overlay (both in addition to whatever else). We know next to nothing about the composition of the Mulekite group. We do not know whether they built a ship or hired one. If the latter, the crew or those aboard were likely an international mix—perhaps Phoenicians, Greeks, and Arabs—and if so, the Mulekite language within a generation could well have been a creole or hybrid of who knows how many languages. That would be one possible explanation among many for the Nephites’ inability to understand them after only four centuries. The river Sidon being named after the Phoenician capital Sidon speaks for a Phoenician element among them, since Sidon is hardly part of the ancient Israelite domain. Third, we do not know Lehi’s nor Ishmael’s dialect; that eventual knowledge is bound to be surprising in some ways. Nibley elaborates the Aralu-like qualities of the Lehi-Ishmael party: that Ishmael’s name is reminiscent of the father of the Arabs; that Manasseh, of all the tribes, mixed and associated with the Arabs more frequently than any of the twelve tribes; and the Arabic nature of names like Lehi, Laman, Lemuel, and Sam. Nibley’s observations and the surprising proportion of Arabic vocabulary in UA are mutually consistent with each other.

Returning to the whereabouts of some basic Hebrew vocabulary, a look at UA occasionally suggests that some basic vocabulary could have been replaced by semantic extensions of other Semitic vocabulary. For example, the common Semitic word laīla

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“night” is not found. However, the UA word for “night” (found in many UA languages) is *tuk, and it also means “black,” “dark,” and the “fire went out.” Hebrew *d’k means “to go out” (of a fire), and phonologically the match is exactly as expected: devoicing of d > t; round vowel for the pharyngeal *ain; and k. When the “fire goes out” at night, it is then “dark, black, night,” and the word from Hebrew *d’k appears to be the source of UA *tuk “night” (as well as “dark, black, fire go out”). Many are the examples of such extensions of some Hebrew words into new semantic domains.

Another array of curiosities involves the UA words for “man.” All four of them are traceable to Semitic, but they occur in exactly the opposite frequency typical of Hebrew. The most frequent word for “man” in Hebrew is ְזָקַר, which is found in only Tr wesi (*wēsi) and only in a certain phrase with a negative, meaning “no one, no man,” which is one of the typical uses of Hebrew ְזָק. The second most common word in Hebrew is ְזַקְמ, and that is found in about five UA languages (*ottam). (Keep in mind for both ְזָק and ְזַקְמ, that the initial ְיְלֶפֶּה or glottal stop is a source of rounding in UA.) Least common in Hebrew is ְזָקַר “male/man” (Ar ְזָקָר, Aram ְזָקָר), while most common in UA is *taka “man.” Hebrew ְז is a merger of two proto-Semitic consonants, *z and *d, that appear in Arabic as z and d, and in Aramaic as z and d. Interestingly, some evidence suggests that UA also distinguishes these as UA *c and *t, respectively; thus the stop t in UA corresponds to proto-Semitic d.

<table>
<thead>
<tr>
<th>Heb/Sem</th>
<th>UA</th>
</tr>
</thead>
</table>
| 100. zākār (Ar ְזָקָר; Aram ְזָקָר) | *taka | man
| 101. ẓāqēb (Ar ְצָקֵב) | *ṭārepid | wolf
| 102. zaqan/ziqun (Akk) | *ṭi’n | mouth

83 UA *taka “man” in several languages.
84 Hebrew ẓāqēb “wolf”; Ar ְצָקֵב “wolf.” SP tīva “wolf”; Th tībaic “wolf”; Cr tā’lak “wolf”; Hch tālak “wolf”; and perhaps Od see’s “wolf,” though Od should show c rather than s for UA t.
85 Hebrew zaqan “beard, chin”; likewise Ar ְזָקָן and Akk ְזִקְנָא. Several UA languages show *te(n) “mouth”; however, again Tr shows the crucial glottal stop as a vestige of the lost uvular in a cluster: TrRetail

**Egyptian**

Of great interest are some Egyptian words. For example, both the H Egyptian word for “lion” appears that the glottal stop (ʼ) or Semitic some round vowel, since both correspondences:

52. Heb ְארֵי lion U
103. Eg ְמִי lion U
Cpt ְמי lion U

Ancient Egyptian, like many exhibited only consonants (i or UA word mawīya “mountain languages, and it shows all three very nicely. Also of interest is Egyptian in which vowels were vocal stop also resulted in roundin, ְמי “lion.” Though not altogether characters that yield rounding in the c exhibit a similar tendency in the Coptic:

<table>
<thead>
<tr>
<th>Egyptian</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td>ḫbs</td>
<td>clothe</td>
</tr>
<tr>
<td>htp</td>
<td>happy, at peace, set</td>
</tr>
<tr>
<td>s</td>
<td>back</td>
</tr>
<tr>
<td>s’y</td>
<td>sand</td>
</tr>
<tr>
<td>s’</td>
<td>great</td>
</tr>
<tr>
<td>ḥn</td>
<td>live/life</td>
</tr>
<tr>
<td>ṭfr</td>
<td>bag, enclose</td>
</tr>
</tbody>
</table>

86 See nn. 74 and 82.
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Fourth and most curious is UA *tihoy “man,” suggestive of the most common Ar word for man: rajul.86

Egyptian

Of great interest are some UA lexemes that may match Egyptian. For example, both the Hebrew word for “lion” and the Egyptian word for “lion” appear in UA languages. Keep in mind that the glottal stop (ʔ) or Semitic ʾaleph corresponds to UA w or some round vowel, since both of these words show that correspondence:

52. Heb ʾārî lion UA *wori mountain lion
103. Eg mʾi lion UA *mawiya mountain lion
        Cpt mui lion

Ancient Egyptian, like many ancient Near Eastern languages, exhibited only consonants (i or y recorded as a consonant). The UA word mawiya “mountain lion” is found in several UA languages, and it shows all three consonants of the Egyptian word very nicely. Also of interest is that in Coptic—a later form of Egyptian in which vowels were written—one can see that the glottal stop also resulted in rounding (u) as is typical in UA: Coptic mui “lion.” Though not altogether consistent, the same consonants that yield rounding in the change from Hebrew to UA often exhibit a similar tendency in the change from ancient Egyptian to Coptic:

<table>
<thead>
<tr>
<th>Egyptian</th>
<th>Coptic</th>
</tr>
</thead>
<tbody>
<tr>
<td>ʰbš</td>
<td>höves</td>
</tr>
<tr>
<td>htp</td>
<td>hōtep</td>
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<tr>
<td>s ⁹</td>
<td>soi</td>
</tr>
<tr>
<td>sʾy</td>
<td>sō</td>
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<td>s</td>
<td>oʾō</td>
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<td>cʾnḥ</td>
<td>ʾoneh</td>
</tr>
<tr>
<td>ʾrf</td>
<td>ʾorev</td>
</tr>
</tbody>
</table>

86 See nn. 74 and 82.
However, exceptions also exist: Eg *r“sun,” Cpt re “sun.” Consider other similarities between Egyptian and UA:

104. Eg nmi travel, *nīmīwander, go about
105. Eg rm young, of animals Tr rana brood, litter, child
(Remember that initial r is UA i, except it remained r in Tr.)
106. Eg nb all, every Tr nepi a lot, too much
107. Eg r sun *tawe sun, day pa-top/ (pa=water)
108. Cpt tevet fish pa-tap/ (pa=water)

For items 105 and 107, remember that Tr r = Hebrew r = UA *i in initial position; therefore, the Tr form rawe “day” is equivalent to UA *tawe found in Eu, Yg, My, Wr, and Hp, all of which match nicely the Egyptian word r“sun,” with the expected w for the pharyngeal ‘ain. In regard to item 108, we might mention that v is an alternate form of p in both Coptic and UA.

Other Egyptian examples exist, but these are sufficient to show that if UA was, in part, a Lehite language, then a certain amount of Egyptian vocabulary worked its way into the spoken language, just as Latin words entered English via Latin as a liturgical or written language of religious record. The proportions of Egyptian are not great compared to the amount of Hebrew, as we would expect; nevertheless, any Egyptian vocabulary at all is significant.

Book of Mormon Peoples

One may also wonder if there is any evidence in UA to suggest that UA peoples may be in part remnants of Book of Mormon peoples. From a number of possibilities, consider two.

1. Hopi masaw/masawi “supreme deity, supernatural judge” fits nicely the three consonants of mašših or maššiah (Messiah). The final h is the pharyngeal h, which yields w or rounding in UA; therefore, outside of the missing vowel i, all else and especially the three consonants are as expected.

2. The word for Nephite in Hebrew would be nep̄înēfî, depending on how much the Nephite language was subject to the spirantization (of *p to f) ev imposed their dialect or allophones are split: some show a single s to v rather than f, while others show spirantization evident in the phonetics occurred when this American Indian was imposed on them. Since some UA languages do show the spirantization evident in the UA (though slightly different) spirantization is not something that is all UA languages. Either way, the sound is p or v in UA, not f as in the NPM. Has both p and f. In addition, the UA *i is an alternate form of *a in both Coptic and UA.

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In Egyptian and UA:

- nimi: wander, go about
- r rana: brood, litter, child
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- l nepi: a lot, too much
- tawe: sun, day
- pa-top/a-tap: fish (pa=water)

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- e in Hebrew would be nepi/nefi,
Nephite language was subject to the
spirantization (of *p to f) evident by the time the Masoretes
imposed their dialect or allophonic variants on the text. UA
languages are split; some show a similar spirantization of Hebrew *p
to v rather than f, while others retain p. This would suggest that
the spirantization evident in the Masoretic dialect may not have
occurred when this American dialect of Hebrew left Palestine,
since some UA languages do not show it, but that a similar
(though slightly different) spirantization occurred later in some
UA languages also. Either way, the intervocalic form of Hebrew p
is p or v in UA, not f as in the Masoretic dialect, though Egyptian
has both p and f. In addition, the -ite ending of English biblical
nationalities is a mistaken adoption of the feminine adjectival
ending showing -i and is incorrect. In Hebrew, words featuring
persons of an ethnic group simply use the suffix -i (as the vowel
in free); for example, a Moabite is moabi, an Ammonite is
ammoni, an Israelite is israeli, as said of Israelis in modern Israel
today. Thus a Nephite would be nepi/nepi/nepi (a long vowel at the
end, however one chooses to represent it). Plural Nephites
would contain the plural suffix -im or earlier -ima, and would thus
be nepiyitim or with a typical reduction of that long string of fairly
identical high front vowels (i/y) and the older ending as is found
in UA (-ima), we would have nepima or nepima. Pima happens to
be the tribal name of two UA groups in the Te Yankee branch of
UA and is missing only the first syllable ne- of what would other-
wise be the expected plural form of Nephites in Hebrew.87
Another name for a group in the same branch (Te Yankee) of UA is
nevome. Remember that the final a of our UA reconstruction
*-ima is often e or i in most UA languages. Likewise, for a vowel
to assimilate to a round vowel (i > o) when adjacent to one bilabial
is common enough, and here i is caught between two bilabials (v
and m), which would make the change i > o even more likely;
furthermore, v is a form of UA *p between vowels. In essence, the

87 Another etymology has been suggested for Pima; as Dunnigan puts it,
“The most frequently cited folk etymology for the origin of the word Pima is that
it is a corruption of the O’odham expression pe ‘am’naat, literally ‘I don’t
know.’ Supposedly, this was the native’s answer to the first interrogations in
Spanish”; quoted from Timothy Dunnigan, “Lower Pima,” in Handbook of
Institution, 1983), 229.
UA tribal name Nevome is easily derivable from Nepima (Nephites).

Though it is too early to say definitively, the above tribal names (e.g., nevome < *nepima) and several other factors suggest a possibility worth considering: could the UA peoples be in part surviving Nephite or Mulekite populations in the land northward or in northern extensions of the land northward, since the UA tribes form a fairly contiguous chain from Mexico City northward up through western Mexico to the US Southwest? Of course, few, if any, UA areas would be the areas that the Book of Mormon authors referred to as having “large bodies of water and many rivers” and “houses of cement” (Helaman 3:3–4, 7; 6:6; 7:1); nevertheless, some of them, at least, could be northern extensions of the areas spoken of. In 55 B.C. some 5,400 families departed out of Zarahemla for the land northward, and Hagoth built ships to transport more to the land northward (Alma 63:3–4). Nearly a decade later in 46 B.C. “An exceedingly great many . . . went forth unto the land northward. . . . And they did travel to an exceedingly great distance” (Helaman 3:3–4). Consider the following factors:

1. If Mesoamerica is the area of Book of Mormon history, as proposed by Sorenson (88) and most Latter-day Saint archaeologists, north of that is a fairly unbroken continuum of UA speaking groups stretching from Mexico City northward to Southern California and the US Southwest. The Aztecs arrived (or was it returned?) well after Book of Mormon times, but what of the closely related Cora, Huichol, and other UA languages just north of Nahua-speaking areas? Even if the Mexico City area was inhabited late by UA speakers, points just north have long been UA areas.

2. Hagoth’s ships launched into the west sea to sail to the land northward (Alma 63:5), and it is precisely the western coastal and mountainous areas of western Mexico that UA peoples inhabit. The existence of a regular timber-shipping industry along the western coasts of a land northward (Helaman 3:10) from anywhere in Mesoamerica would have the western coast of

Mexico, the habitat of UA west coast of the land northward.

3. The Anasazi culture peoples (Hopi) and other UA peoples (Mesa Verde, Rio Grande, and archaeological of Christ, which date accord northward expansion.

4. The Pima and O’odham are the most likely candidates as the culture, though that is yet debatable. There are connections with Mexico than the Anasazi, perhaps 300 years.

5. Some Uto-Aztecanists suggest that the Aztecs did not have a traditional name, keeping neat the tongue of east coast UA would be the top of the Gulf of the origin of the northern UA lan

6. No matter who built the Southern UA languages hav (sami). The word adobe was in Dictionaries in the 1800s and Joseph Smith would have used the term adobe. If not, his use of adobe would include adobe. And if that is the case, they assumed the northern extensions of those UA areas.

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88 Sorenson, An Ancient American Setting.

89 I heard Wick Miller cite that conference with other Uto-Aztecanists since Wick Miller was probably the untimely death.

90 Adobe is a borrowing into English from Arabic, Coptic, and Egyptian printed in English is 1834, after the book became a commonly used word in E. Smith’s time. OED 1:123.
Mormon Studies 5/1 (Spring 1996)

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Stubbs, Let’s Void the Void

Mexico, the habitat of UA speakers, as a likely candidate for the
west coast of the land northward.

3. The Anasazi culture of the US Southwest includes UA
peoples (Hopi) and other UA relatives (Tanoan pueblos in New
Mexico), and archaeologically the Anasazi appear about the time
of Christ, which date accords well with Hagoth and the times of
this northward expansion.

4. The Pima and O’odham of Arizona (UA groups) are the
most likely candidates as the continuation of the Hohokam cul-
ture, though that is yet debated. The Hohokam are known for
their connections with Mexico, though they date a little earlier
than the Anasazi, perhaps 300 B.C.

5. Some Uto-Aztecanists suggest that the linguistic center of
gravity for the northern half of the UA language family is near
the California-Arizona border just above the mouth of the
Colorado River that empties into the Gulf of Baja California (see
fig. 1).89 If some Nephite ships happened to sail farther north-
ward than usual, keeping near the coastline, they would likely go
inside the tongue of Baja California, and the ultimate destination
would be the top of the Gulf of Baja California, near the point of
origin of the northern UA languages.

6. No matter who built the houses of cement, nearly all the
Southern UA languages have a common word for “adobe”
(sami). The word adobe was not in the 1830 edition of Webster’s
Dictionary, and Joseph Smith may not have been familiar with the
term adobe. If not, his use of cement may refer to or at least partly
include adobe.90 And if that is so, could not the pueblo builders,
who anciently were as much in Mexico as the US Southwest, be
northern extensions of those who built houses of cement?

89 I heard Wick Miller cite this view, whether his own opinion or in
conference with other Uto-Aztecanists, I am not sure. Nor am I sure it matters,
since Wick Miller was probably the foremost Uto-Aztecanist until his recent
untimely death.

90 Adobe is a borrowing into English from Spanish, though ultimately
from Arabic, Coptic, and Egyptian probably; nevertheless, its first occurrence in
print in English is 1834, after the Book of Mormon’s publication, and it did not
become a commonly used word in English until several decades after Joseph
Smith’s time. OED 1:123.
7. Wilford Woodruff expressed that the Nephites of New Mexico were in part Mulekite populations.
8. The rugged mountainous homeland of the Southern Ute was strategically located to provide thousands of hiding places beyond reach of, or not involved in, the final destruction of the Nephites. It is from these areas that the Nephites appear to have spread.

9. And last, but hardly least, the Nahuatl term *nevome* may be in part remnants of Book of Mormon language.

Conclusions

In conclusion, UA, like Hebrew and other languages, is a language family with similarities to Hebrew, and the English translation of the Book of Mormon focuses on Latter-day Saint culture. The relationship between these languages remains largely untapped, despite the obvious shared language roots.
7. Wilford Woodruff expressed a view that the pueblo builders of New Mexico were in part Nephites.\footnote{Wilford Woodruff in a letter to John Taylor and Council, dated 15 September 1879, expressed this view. "Nephites Found in New Mexico," in A Book of Mormon Treasury (Salt Lake City: Bookcraft, 1959), 222–27.}

8. The rugged mountains of western Mexico appear to be the homeland of the Southern UA groups. If the Nephite-Mulekite populations were in these mountains around A.D. 400 when Lamanites were striving to hunt down and kill all Nephites, the ruggedness of the terrain would be a wonderful protection and provide thousands of hiding places. Or this area may have been beyond reach of, or not involved in, all that happened through the final destruction of the Nephites. The linguistic evidence suggests that it is from these areas that many of the Southern UA languages appear to have spread.

9. And last, but hardly least, are a few UA tribal names such as nevome (ç *nepima “Nephites”) that suggest the UA peoples may be in part remnants of Book of Mormon peoples.

Conclusions

In conclusion, UA as a language family exhibits more similarities with Hebrew than could be attributed to coincidence; nevertheless, that Hebrew element is obviously mixed with other language elements very different from Hebrew. The Hebrew features, along with other factors, combine to suggest that the formation or spread of UA peoples may have involved Book of Mormon peoples in part, and, more specifically, perhaps Nephite or Mulekite populations that had spread northward from lands more central to the Book of Mormon record.

A more balanced approach to Book of Mormon language research could be immensely beneficial in the long run. Hebrew, Egyptian, and the English translation have thus far been the sole focus of Latter-day Saint scholars publishing on Book of Mormon language matters. Exclusive concern with those three areas of interest has left Latter-day Saint scholarship at an impasse on many points, while the huge arena of Native American languages remains largely untouched by Latter-day Saint scholars, though obviously these languages must be dealt with eventually.
While the English text has yielded important insights to our analysts, only when Latter-day Saint scholars delve into Native American languages as well can we consider a comprehensive approach to Book of Mormon language matters to be underway. The neglected dimension of research (in Native Americana) could well prove to be the key to many questions impossible to answer by means of Hebrew, Egyptian, and the English text alone.

The hints and leads exist, but they must be searched and worked rigorously. Responsible linguistic investigation of Native American languages in conjunction with Near Eastern languages should be a natural realm of research for Latter-day Saint scholarship and interests. We claim and proclaim knowledge of some ancient American groups, yet our void of attention to Native American languages for a century and a half subsequent to those claims could border on embarrassment if allowed to continue. A people’s language is a window to their past and is often the most voluminous repository of hard data relevant to their origins and past. In light of the potential of Native American languages, it seems time for a change—a change from overlooking them to looking them over in linguistically competent ways. True, the required research investment would be considerable. Comparable to the difference between miles and light-years, the effort would better be measured in units of linguist-lives than in man-hours. Nevertheless, rather than all interested scholars dipping for linguistic depth in the phrasings of the English translation, would that a few explore the ocean of Native American languages and acquire the necessary background to enter this forgotten realm of research and help void the void.

STUBBS, LET’S VOID THE VOID

Orthography

The phonetic representation standard linguistic phonology. The Vowels

- as in father, saw, rod
- e roughly as in fame, say, r
- i as in see, reed
- o as in foe, so, road
- u as in Sue, rude
- i high central vowel, not in l
- θ the schwa or midcentral vowel
- ü midfront rounded vowel a

Long vowels will be represented.
Nasalized vowels will be un

The vowels of Masoretic Hebrew both be represented as e, since earlier Semitic vowels (i and a) painfully specific regarding Mas.

of them are phonological variant only three vowels—a, i, u—in pr

Vowels are described according mouth when pronounced; thus i

front central back

high i ů u
mid e θ o
low a

Consonants

Most consonants are pronounced
nevertheless, a full presentation of
Appendix

Orthography and Pronunciation

The phonetic representation used in this paper is fairly standard linguistic phonology. The phonetic symbols are as follows:

Vowels
- $a$ as in father, saw, rod
- $e$ roughly as in fame, say, raid
- $i$ as in fee, see, reed
- $o$ as in foe, so, road
- $u$ as in Sue, rude
- $\ddot{i}$ high central vowel, not in English, a high schwa
- $\partial$ the schwa or midcentral vowel, as in but, cut, come
- $\ddot{o}$ midfront rounded vowel as in German and Hopi

Long vowels will be represented with a macron as in ā, ī

Nasalized vowels will be underlined: ā.

The vowels of Masoretic Hebrew—segol $\epsilon$ and cere $e$—will both be represented as $e$, since both are substantial alterations of earlier Semitic vowels ($i$ and $a$ usually), and it is pointless to be painfully specific regarding Masoretic vowels anyway, since many of them are phonologica variants of a late dialect that come from only three vowels—$a$, $i$, $u$—in pre-Hebrew or Northwest Semitic.

Vowels are described according to the tongue’s position in the mouth when pronounced; thus $i$ is high-front, the schwa $\partial$ is mid-central, etc.

\[
\begin{array}{ccc}
\text{front} & \text{central} & \text{back} \\
\text{high} & i & \ddot{i} & u \\
\text{mid} & e & \partial & o \\
\text{low} & a & & \\
\end{array}
\]

Consonants

Most consonants are pronounced more or less as in English; nevertheless, a full presentation of consonants follows:
Explanations and additional sounds
The c is a ts sound, very common in UA, as in hats.
The palato-alveolars have the hashmark:
č = ch as in chop; ĵ as in judge; š = sh as in shop; ž = zh as in azure.
The pharyngeals of Semitic are represented by:
h voiceless pharyngeal fricative (as opposed to English h);
c voiced pharyngeal fricative, the Semitic ‘ain, as in Sa‘udi Arabia.
The velar nasal η as in sing.
The dental fricatives: δ as in breathe and they, and ď as in breath and think.
λ is the lateral stop tl of Nahuatl, which corresponds to UA *t.
ît is the emphatic t of Hebrew and Semitic.
Hebrew emphatic ś is a merger of three proto-Semitic consonants that are still distinguished in Arabic; that is, Arabic ś ص, d ض and ż Ꟛ all correspond to Hebrew ś.
Three s sounds in Semitic are all distinguishable in Hebrew; however, they all merged to simply s in UA:

<table>
<thead>
<tr>
<th>proto-Semitic</th>
<th>Hebrew</th>
<th>Arabic</th>
</tr>
</thead>
<tbody>
<tr>
<td>ś₁</td>
<td>š</td>
<td>shin</td>
</tr>
<tr>
<td>ś₂</td>
<td>š</td>
<td>sin</td>
</tr>
<tr>
<td>ś₃</td>
<td>s</td>
<td>samech</td>
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</tbody>
</table>

The beged-kafat letters, which spirantized in non-dageshed positions in the Masoretic dialect (b > v, p > f, etc.) will not show that spirantization in this paper, since it is not a feature of proto-or original Hebrew and may not apply to other dialects of ancient Hebrew. Some of the UA languages show similar spirantization;

Abbreviations other than those
Akk = Akkadian
Ar = Arabic
Aram = Aramaic
Cpt = Coptic
Eg = Egyptian
Heb = Hebrew
Impf = imperfect
Indep = independent
Masc = masculine
N = noun
Obj = object
Pf = perfect
Pl = plural
Pron = pronoun
PrSem = proto-Semitic
PUA = proto-Uto-Aztecan
Rcp = reciprocal
Rfl = reflexive
Sbj = subject
Sg = singular
Sem = Semitic
S.o. = someone
S.th. = something
UA = Uto-Aztecan
UACS = Uto-Aztecan Cognates
Ug = Ugaritic
V = verb
Vi = verb intransitive
Vt = verb transitive
others do not. Likewise, Arabic \( f \) will also be represented in its original form *\( p \) since that is how it remains in UA.

Abbreviations other than those listed in the text

- Akk = Akkadian
- Ar = Arabic
- Aram = Aramaic
- Cpt = Coptic
- Eg = Egyptian
- Heb = Hebrew
- impf = imperfect
- indep = independent
- masc = masculine
- n = noun
- obj = object
- pf = perfect
- pl = plural
- prn = pronoun
- PrSem = proto-Semitic
- PUA = proto-Uto-Aztecan
- recp = reciprocal
- refl = reflexive
- sbj = subject
- sg = singular
- Sem = Semitic
- s.o. = someone
- s.th. = something
- UA = Uto-Aztecan
- UACS = Uto-Aztecan Cognate Sets
- Ug = Ugaritic
- v = verb
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<td>sin</td>
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<td>s</td>
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</tbody>
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\( \hat{\mathrm{h}} \) spirantized in non-dageshed \( (b > v, p > f, \text{ etc.}) \) will not show since it is not a feature of proto-

apply to other dialects of ancient ges show similar spirantization;
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