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INTERMEDIATE BIBLICAL HEBREW GRAMMAR

A Student's Guide to Phonology and Morphology

Eric D. Reymond



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To Robin, Lucy, and Oliver

ἀρχὴ γὰρ αὐτῆς ἡ ἀληθεστάτη παιδείας ἐπιθυμία "The beginning of wisdom is open yearning for instruction" (Wis 6:17).

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Abbreviations

Grammatical Abbreviations

1cp	first common plural
lcs	first common singular
2fp	second feminine plural
2fs	
	second feminine singular
2mp	second masculine plural
2ms	second masculine singular
3fp	third feminine plural
3fs	third feminine singular
3mp	third masculine plural
3ms	third masculine singular
abs.	absolute
acc.	accusative
adj(s).	adjective(s)
Aram.	Aramaic
cohort.	cohortative
const.	construct state
du.	dual
esp.	especially
fem.	feminine
fp	feminine plural
fs	feminine singular
gen.	genitive
impv.	imperative
inf(s).	infinitive(s)
intrans.	intransitive
l(l).	line(s)
masc.	masculine
mp	masculine plural

ABBREVIATIONS

ms	masculine singular
nom.	nominative
pl.	plural
ptc(s).	participle(s)
sg.	singular
spec.	specifically
suf.	suffix
trans.	transitive

Other Abbreviations

AfAsL	Afroasiatic Linguistics
ĂfO	Archive für Orientforschung
ÅKM	Abhandlungen für die Kunde des Morgenlandes
ANEM	Ancient Near Eastern Monographs
ANESSupp	Ancient Near Eastern Studies Supplement Series
AOAT	Alter Orient und Altes Testament
AOS	American Oriental Series
BA	Biblical Aramaic
BDB	Brown, F., S. R. Driver, and C. A. Briggs. <i>Hebrew Lexicon</i> of the Old Testament. Oxford: Oxford University Press, 1906.
BH	Biblical Hebrew
BHS3	Biblia Hebraica Stuttgartensia. Edited by Elliger, K. and
	W. Rudolph. 3 rd edition. Stuttgart: Deutsche Bibelgesell- schaft, 1987.
BHT	Babylonian Hebrew (Pronunciation) Tradition
BibOr	Biblica et Orientalia
BSOAS	Bulletin of the School of Oriental and African Studies
BZAW	Beihefte zur Zeitschrift für die alttestamentliche Wissen- schaft
С. Ар.	Josephus Contra Apionem
CEŴAL	<i>Cambridge Encyclopedia of the World's Ancient Languages.</i> Edited by Roger D. Woodard. Cambridge: Cambridge University Press, 2004.
DCH	<i>The Dictionary of Classical Hebrew</i> . Edited by David J. A. Clines. 8 vols. Sheffield: Sheffield Academic, 1993–2007.

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ABBREVIATIONS

DJBA	Sokoloff, Michael. A Dictionary of Jewish Babylonian Ara-
	<i>maic of the Talmudic and Geonic Periods</i> . Ramat Gan: Bar Ilan University Press, 2002.
DJD	Discoveries in the Judaean Desert
DJPA	Sokoloff, Michael. A Dictionary of Jewish Palestinian Ara-
DJFA	maic of the Byzantine Period. 2nd ed. Ramat-Gan: Bar
	Ilan University Press, 2002.
DSS	Dead Sea Scrolls
EHLL	<i>Encyclopedia of Hebrew Language and Linguistics</i> . Edited by Geoffrey Khan. 4 vols. Leiden: Brill, 2013.
Ges ¹⁸	Hebräisches und Aramäisches Handwörterbuch über das
003	Alte Testament. Edited by Wilhelm Gesenius et al. 18th
	ed. Berlin: Springer, 2012.
GKC	Gesenius' Hebrew Grammar. Edited by E. Kautzsch.
GILO	Translated by A. E. Cowley. 2nd ed. Oxford: Oxford Uni-
	versity Press, 1910.
HALOT	Koehler, Ludwig and Walter Baumgartner. The Hebrew
	and Aramaic Lexicon of the Old Testament. Translated by
	M. E. J. Richardson. 5 vols. Leiden: Brill, 1994–2000.
HAR	Hebrew Annual Review
HBH	A Handbook of Biblical Hebrew. Edited by W. Randall
	Garr and Steven E. Fassberg. 2 vols. Winona Lake, IN:
	Eisenbrauns, 2016.
HdO	Handbuch der Orientalistik
HGhS	Bauer, Hans and Pontus Leander. Historische Gramma-
	tik der hebräischen Sprache des Alten Testamentes. 2 vols.
	Halle: Niemeyer, 1922.
HSK	Handbücher zur Sprach- und Kommunikationswissen-
	schaft
HSM	Harvard Semitic Monographs
HSS	Harvard Semitic Studies
IPA	International Phonetic Alphabet
JAOS	Journal of the American Oriental Society
JBL	Journal of Biblical Literature
JBS	Jerusalem Biblical Studies
JHS	Journal of Hebrew Scriptures
JNES	Journal of Near Eastern Studies
JNSL	Journal of Northwest Semitic Languages

Joüon	Joüon, Paul. <i>A Grammar of Biblical Hebrew</i> . Translated and revised by T. Muraoka. 2 vols. Rome: Pontifical Biblical Institute, 1993.
JPS	Tanakh: The Holy Scriptures: The JPS Translation accord-
)13	ing to the Traditional Hebrew Text
JSJ	Journal for the Study of Judaism
JSJSup	Journal for the Study of Judaism Supplement
JSPSup	Journal for the Study of the Pseudepigrapha Supplement
J51 5up	Series
LBH	Late Biblical Hebrew
LSAWS	Linguistic Studies in Ancient West Semitic
LSAWS	Liddell, H. G., R. Scott, and H. S. Jones. A Greek-English
LOJ	<i>Lexicon</i> . Revised edition. Oxford: Clarendon, 1968.
LXX	Septuagint
MT	Masoretic Text, specifically the Leningrad Codex, as rep-
101 1	resented in BHS3
NJB	New Jerusalem Bible
NRSV	New Revised Standard Version
NWS	Northwest Semitic
OED	Oxford English Dictionary. 2nd ed. Oxford: Oxford Uni-
OLD	versity Press, 1992.
Or	Orientalia NS
OrGand	Orientalia Gandensia
Orientalia	Orientalia: Papers of the Oriental Institute (Moscow)
OTWSA	Oud Testamentiese Werkgemeenskap van Suid-Afrika, Pre-
01//0/1	toria
pers. comm.	personal communication
PIASH	Proceedings of the Israel Academy of Sciences and
1 11 1011	Humanities
PLO	Porta Linguarum Orientalium
PNWS	Proto-Northwest Semitic
PS	Proto-Semitic
RBS	Resources for Biblical Study
RH	Rabbinic Hebrew
SLIH	The Semitic Languages: An International Handbook.
	Edited by Stefan Weninger, Geoffrey Khan, Michael
	P. Streck, and Janet C. E. Watson. HSK 36. Berlin: de
	Gruyter Mouton, 2011.
SP	Samaritan Pentateuch

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ABBREVIATIONS

SSLL STDJ TDOT	Studies in Semitic Languages and Linguistics Studies on the Texts of the Desert of Judah <i>Theological Dictionary of the Old Testament.</i> Edited by G. Johannes Botterweck and Helmer Ringgren. Translated by John T. Willis et al. 15 vols. Grand Rapids: Eerdmans, 1974–2006.
THT ThWQ	Tiberian Hebrew (Pronunciation) Tradition <i>Theologisches Wörterbuch zu den Qumrantexten</i> . Edited by HJ. Fabry and U. Dahmen. Stuttgart: Kohlhammer, 2011–.
UF	Ugarit-Forschungen
VT	Vetus Testamentum
VTSup	Vetus Testamentum Supplement Series
WS	West Semitic
ZA	Zeitschrift für Assyriologie
ZAH	Zeitschrift für die Althebraistik
ZDMG	Zeitschrift der Deutschen Morgenländischen Gesellschaft

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Preface

Transliteration, Etymological Bases, and Basic Terms

In the course of describing Biblical Hebrew (BH), I will often transliterate the relevant Hebrew word or phrase. In relation to the Tiberian Hebrew pronunciation tradition (THT), I will attempt to represent the word(s) according to their phonemes. A phoneme is a "unit of sound in a language ... that can distinguish one word from another" (OED). The pair of sounds represented by the letters /l/ and /r/ are examples of two phonemes in English. The two sounds are similar (both are called liquid consonants), but English speakers hear them as meaningfully discrete sounds. This means that we can create and use individual words that differ in only this one feature. For example, we immediately recognize that "lace" and "race" are different words. Even if we did not understand the words already, we would assume that two words which differed only in this one consonant were distinct words with different meanings, as with the imaginary words "lupish" and "rupish." Some languages, by contrast, do not distinguish these liquid consonants as distinct phonemes. Japanese, for example, has a single liquid consonant phoneme, which is commonly realized somewhat like our /r/.¹ For this reason, pairs of distinct words like "lace" and "race" (or "lupish" and "rupish") would not typically appear in Japanese.

Each phoneme, however, can be articulated in a number of different ways, depending on various factors such as where it occurs in a word and the character of surrounding letters. In English, for instance, the exact pronunciation of the /l/ phoneme is different depending on the preceding vowel. To pronounce the /l/ in the word "fall," the tongue is low, toward the base of the mouth, whereas in the word "fell," it is considerably higher, in the middle of the mouth. Such distinct pronunciations of a single pho-

^{1.} See, e.g., Laurence Labrune, *The Phonology of Japanese*, Phonology of the World's Languages (Oxford: Oxford University Press, 2012), 92–94.

neme are called allophones. The allophones are different realizations of a single phoneme.

Since in my transliteration of THT, I will indicate only phonemes, I will not distinguish between allophones in Hebrew, like spirantized and nonspirantized begadkepat letters. A bet with a dagesh will be transliterated exactly like a single bet without a dagesh: b. Nor will I attempt to discriminate between vowels accompanied by matres and those without matres. A gamets in the interior of a word will be represented in the same way as a word-final gamets with mater he: שָׁמְרָה šåmrå (< *šāmərā) "she guarded." Furthermore, as this example indicates, when transliterating a word in the Masoretic Text (MT; i.e., Leningrad Codex B19a), I will make a distinction where relevant between the phonemes as they would have been perceived by the Tiberian Masoretes and the vowels and consonants of pre-Masoretic times. The transliteration of words from the era(s) preceding that of the Tiberian Masoretes will also avoid any indication of obvious allophones (like the begadkepat distinctions) or matres, though, it should be admitted, the knowledge of what specifically constituted a phoneme in this period is harder to determine. Because this earlier pre-Masoretic pronunciation is not explicitly indicated by the vowel symbols in the texts that we possess, such transliterations are preceded by an asterisk. An asterisk does not imply that a form is from Proto-Semitic (PS) or Proto-Northwest Semitic (PNWS), but simply that it is not explicitly reflected in the orthography of the Tiberian Masoretes. Moreover, not every word or example is reconstructed back to its PS/PNWS form. Such reconstruction is done only where relevant. Usually, where a given word's development is fully traced, the starting point is the hypothetical form of the word after PNWS and before the Canaanite evidenced in the Amarna correspondences (ca. 1350 BCE). In these cases, I will usually present the nouns/adjectives with the nominative case vowel (*-*u*).

When I transliterate words as preserved in the MT, I will generally use the following system of transliteration: *hireq* and *hireq* yod = *i*, sere and sere yod = *e*, segol = ε , patakh = *a*, qamets = a, holem = *o*, qibbuts and shureq = *u*. Shewa is not transliterated because it was not recognized as a phoneme; also, I will not transliterate epenthetic vowels, like the furtive patakh or the short vowel (e.g., $/\varepsilon/$ or /a/) in the second syllable of absolute singular nouns like $\exists x \notin t \in melk$) "king."² One will also notice that I do not dis-

^{2.} See Geoffrey Khan, "Syllable Structure: Biblical Hebrew," EHLL 3:670-73.

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tinguish between long and short vowels.³ In addition, I will represent the letter *sin* (\boldsymbol{v}) as /s/ in transliterations of THT. This system of transliteration, it should be noted, does not exactly correspond to the pronunciation of THT, which was a good deal more complex.

Overall, the description of the language that follows in this book pertains to a version of Hebrew that precedes the time of the Tiberian Masoretes. This is the era (very roughly the Second Temple era) when many of the features we are familiar with as "Biblical Hebrew" (e.g., the spirantization of *begadkepat* consonants; merging of /ś/ and /s/; compensatory lengthening) likely developed. Usually, but not always, a word in transliteration that precedes the same word in Hebrew letters (often in parentheses) is indicating the form from the Second Temple era. The version of Hebrew described here is an ancestor of the Tiberian Masoretic pronunciation and vocalization, but not identical with it. Due to this lineage, there is often a correlation between the symbols of the Tiberian vocalization system and the vowels of this pre-Masoretic version of Hebrew, such that one will frequently observe the following correspondences: *hireq* = *i*, *hireq* $yod = \overline{i}$, sere = e or \overline{e} , shewa = \overline{a} or zero (i.e., no vowel), segol = ε or e, patakh = a, qamets = \bar{a} or o, holem = o or \bar{o} , qibbuts = u or \bar{u} , and shuruq = \bar{u} . Although it is counterintuitive, it is only the latter set of correspondences that coincide with the typical transliteration of BH. That is, the Hebrew of the Bible is typically transliterated (and pronounced) in a way that does not explicitly reflect the pronunciation implied by the vowel symbols. For this pre-Masoretic version of Hebrew (from the Second Temple era), I will still transliterate $\sin(\psi)$ as /s/ since already by the middle of the first millennium BCE the phoneme /ś/ had begun to be pronounced as /s/. Nevertheless, when indicating forms of a given word from before 500 BCE I will indicate the phoneme as /ś/.

Since the vocalization of the Masoretes so regularly and neatly corresponds to the Hebrew of this era (i.e., the Second Temple era), it is not necessary to transliterate every word from the Masoretic Hebrew spelling into a romanized version. Only in the discussion of the vowels (in ch. 3) is it necessary to transliterate all the words, in order to clearly distinguish Masoretic from pre-Masoretic pronunciations. Thus, in that chapter the

^{3.} Vowel length was not regularly used to distinguish words in THT. See Geoffrey Khan, "Tiberian Pronunciation Tradition of Biblical Hebrew," *ZAH* 9 (1996): 14–15; he writes: "Meaningful contrasts between words were not usually made by differences in vowel length alone" (14).

features discussed are always illustrated with transliterated versions of the words, with the Masoretic Hebrew spellings in parentheses. If nothing else, this should reinforce the idea that the Masoretic pointing/vocalization represents only one stage in a very long linguistic development.

The reconstruction of the history of any dead language is fraught with uncertainties. The reconstructions of particular Hebrew words in the various stages before they reached their form in the MT are quite hypothetical. I have tried to adhere to generally accepted ideas, but, due to the nature of the evidence, much remains uncertain. This is particularly true in relation to the history of the vowels and their development.

In addition, because the present work seeks to introduce students to the historical study of Biblical Hebrew, especially as a means of providing greater access to ancient Hebrew literature, I have generally avoided documenting all previous scholarship on the various phenomena described (including all competing interpretations). Instead, I have usually opted to follow the most recent conclusions by scholars as presented especially in the *Encyclopedia of the Hebrew Language and Linguistics*, where readers can find further discussion as well as references to more in-depth and detailed studies. The chronological sequence of linguistic developments presented especially in chapter 3 should be viewed as particularly tentative.

In cases where I am entirely unsure what vowel to reconstruct for a given word in a pre-Masoretic era, I use *V* to represent simply "vowel." The symbols < and > indicate linguistic developments and derivations, respectively. They function, in essence, like arrows. The notation "x > y" indicates that x became y; conversely, "y < x" indicates that y derives from x.

In describing the morphology of BH, I will use the standard transliteration of the root **qtl* in its earliest form. The root is realized in BH with a *tet*, $\forall qtl$ is its *tet* is a later development of the root. The earlier (nonemphatic) /t/ was pronounced as *tet* (/t/) due to the influence of the preceding emphatic *q*. This root, **qtl*, will be used to indicate the etymological bases of nouns and verbs, which reflect the early forms of nouns and verbs. In these cases, the form will be preceded by an asterisk (e.g., **qatl*).

When I refer to a word's "stem," I refer to that part of a word that remains consistent throughout its inflection. For example, the word, the word, matter" is inflected with many suffixal components, including suffixal morphemes like *- $\bar{i}m$ (to make the plural form דְּבְרִים) and the set of possessive pronouns like *- \bar{o} (to make the expression). The

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stem of דְבָרִים and דְבָרָים. The stem vowels of both the plural form and the singular form with the third-person masculine singular suffix are * ∂ - \bar{a} (represented with the symbols *shewa-qamets* in THT). For the verbal form דֹבָרָקבוּ "they will write," the stem is can and the vowel of the stem is simply * ∂ , while for הָגַדְקָ "you told," the stem is and the vowels of the stem are *i-a*. The verbal categories *qal*, *piel*, *hiphil*, and so on are referred to as conjugations.

It is assumed that students know what the construct state is. This is not the only state for a noun, however. A noun that is not in the construct state and is not accompanied by a suffixed pronoun is said to be in the absolute state. This is essentially the form of the word found in a dictionary entry.

The word "pause" refers to a place in a verse where a person reading or reciting would extend the pronunciation of a word. This typically results in a longer form of the word, one in which the vowels are often not reduced or elided and sometimes where the vowels are lengthened. A word that appears in such a place is said to be "in pause" or to be a "pausal form." Pause usually is marked by the *atnach* symbol, (in the middle of the verse), the *silluq* symbol, (at the end of a verse) and sometimes by the *zaqef* symbol, '(at the quarter point and three-quarter point of the verse). A word that is not in pause, that is most of the words of a verse, is said to be "in context" or to be a "contextual form." These forms often reflect vowel reduction and/or elision of vowels. All words are either pausal or contextual.

We will refer to open and closed syllables. An open syllable has the sequence consonant + vowel; a closed syllable has the sequence consonant + vowel + consonant. We will also refer to the tonic syllable, that is, the syllable that bears the tone, accent, or stress.⁴ This will also be called the accented syllable or the stressed syllable. The syllable that precedes the tonic syllable is the pretonic syllable. The syllable that precedes the pretonic is the propretonic syllable. In syllable that precedes the pretonic is the tonic syllable. In syllable. The syllable that syllable, it is also a closed syllable. The preceding consonant and vowel, -ֻ-, is the pretonic syllable; it is an open syllable. The initial - $\frac{1}{2}$ is the propretonic syllable; it is also an open syllable.

It is also helpful to identify here four types of irregular nouns and their salient characteristics: geminate nouns (e.g., עָם "people"), segolate nouns

^{4.} Although tone, accent, stress can refer to different linguistic phenomena, they are used here synonymously.

(e.g., מֹלָך "king"), a subcategory of which are middle-weak nouns with a diphthong (e.g., זית "olive"), and etymological III-vav/yod nouns, also commonly called III-he nouns (e.g., הֹזָה "seer"). Geminate nouns are those that have a doubled consonant as part of their base, something revealed whenever a pronominal suffix or suffixal morpheme is attached to their stem: חָצִים "people" and עַמִים "peoples"; עָמִים "arrow" and הַצָּים "arrows"; statute" and הְקִים "statutes." The gemination is explicit in the nouns with the feminine morpheme: חקה "statute." Segolate nouns are those that have three different root consonants (i.e., no geminated root consonants) and that, in their historical singular form, had a single vowel (*qatl, *qitl, *qutl). With the exception of some III-vav/yod segolates, the masculine segolate nouns are all accented on their first syllables in the absolute (e.g., לֹכָת "king," לָכָל "book," and לָדָשׁ "holy thing"), thus distinguishing them from most other nouns, which are accented on their last syllable (e.g., "word"). The etymological base vowel of the segolates (*qatl, *qitl, *qutl) is typically revealed in forms bearing a pronominal suffix: מלבי "my king," סָפָרִי "my book," קִדְשִׁי "my holy thing." Feminine segolate nouns can be identified by their initial syllable, which is a closed syllable that begins with a root consonant (e.g., מַלְכֵה "queen," where the initial mem is a root consonant and the first syllable is *mal*-). Almost universally, the plural forms of the absolute segolate nouns exhibit the sequence of $*a-\bar{a}$ in their stem (realized in THT spelling as shewa-gamets): מלכים "kings" and queens." Middle-weak nouns with a diphthong lose the diphthong מלכות in construct or with a pronominal suffix or suffixal morpheme: זָיָת "olive" and מוֹתִי "olives"; מוֹתִי "death" and מוֹתִי "my death." Etymological III-vav/ yod nouns exhibit an */e/ (> segol in THT) as a final vowel in the masculine absolute, קצה "end," but an */ā/ (> gamets in THT) in the feminine absolute, קצה "end." The final */e/ and he mater (in the masculine) are absent with a pronominal suffix or suffixal morpheme: קצֹהוּ "his end."

As for verbal forms, the label *qåtal* refers to what is often referred to as the suffix-conjugation or perfect; *yiqtol* refers to the prefix-conjugation or imperfect; *wayyiqtol* to the *vav*-consecutive imperfect and *waqåtal* to the *vav*-consecutive perfect. The jussive/preterite verb form is referred to as the short-*yiqtol*. Other verbal forms are referred to by their traditional labels (imperative, cohortative, infinitive construct, infinitive absolute, participle, and passive participle).

The following book presumes a certain familiarity with Biblical Hebrew. In particular, it presumes some knowledge of how the Hebrew

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noun and verb inflect. Since students coming into an intermediate or advanced Hebrew class often have different backgrounds, it will be useful for some students to review the basics of Hebrew morphology. In the appendix, I have gathered a number of different guidelines that aid in producing the basic nominal and verbal forms.

1 Introduction

1.1. What Is Biblical Hebrew?

When we speak about Biblical Hebrew what do we mean? Of course, we refer to the language of the Hebrew Bible/Old Testament (HB/OT). But behind this common label hides an often unacknowledged fact: the language we learn in "Biblical Hebrew" class is not really the language known to the Bible's writers and early readers.¹ In relation to phonology, we often learn the pronunciation of the consonants and vowels that is current in modern Israel today. When we learn the forms of certain words, we learn how some speakers and readers in the first millennium CE read and spoke Hebrew.

For example, when we speak of the pronunciation of *het* as equivalent to the *ch* in the North American English pronunciation of "Chanukkah" or in the Scottish pronunciation of "loch," we reflect of course a pronunciation for the letter typical of modern, Israeli Hebrew. This pronunciation, contrary to what one might assume, developed at the earliest in Europe in the early second millennium CE.² Needless to say, this is well after the HB/ OT had been written. In a similar manner, when we learn that the word for "king" was pronounced *melek* (IPA ['mɛlɛɣ]), with the accent on the first of two syllables, we are learning the form of the word that perhaps became part of the literary register of "Biblical Hebrew" only in the first

^{1.} This, of course, is not a new observation; Alexander Sperber made this point many years ago in his *A Historical Grammar of Biblical Hebrew: A Presentation of Problems with Suggestions to Their Solutions* (Leiden: Brill, 1966), 17, though his analysis of how the contemporary articulation of the language differs from that of antiquity is not followed in the present work.

^{2.} See Ilan Eldar, "Ashkenazi Pronunciation Tradition: Medieval," *EHLL* 1:188; Nimrod Shatil, "Guttural Consonants: Modern Hebrew," *EHLL* 2:169, 171.

millennium CE. Even then, speakers likely did not conceive of such words as having two syllables, in the same way that modern students do not consider a word with furtive *patakh* (e.g., רָּוָת) "spirit") to have two syllables.³

Curiously and perhaps counterintuitively, we do not even learn precisely the pronunciation of the vowels known to the scribes and scholars who innovated the vowel marks that lie beneath (and sometimes above) the consonants. For example, when we speak of the twofold pronunciation of *qamets* as either "long /ā/" or "short /o/" we reflect the modern pronunciation, which derives from Sephardic tradition.⁴ Although this basically reflects a pronunciation of BH current at the turn of the eras, it does not reflect the manner in which the Masoretic scribes pronounced Hebrew.⁵ When the Masoretic scribes used the *qamets* symbol, it marked what was for them, in their oral tradition, not two vowels, but a single vowel: /å/, the "aw" in North American English "paw" (i.e., IPA [ɔ]).⁶

As I hope will be obvious, learning about the language in the time that it was used to write and copy the Bible (and also about the language's development) has many benefits for the student of the Hebrew scriptures. In the first place, it allows one to get closer to the text, allowing readers to perceive more clearly the sound and rhythm of the biblical language (both in its ancient and medieval realizations). This can be both inspirational as well as instructive. In some cases, perceiving the earlier pronunciation(s) of the language can help explain apparent ambiguities in the lexicon. For example, the word הָפָר in the *qal* means "to dig, search for" and the word הַפָּר in the *qal* means "to be ashamed." Although the verbs appear identical in many of their forms (e.g., הָפָר; they will search" Deut 1:22 and הַפָּר "they will be ashamed" Ps 40:15), it is likely that the two words were distinguished in their pronunciation during most of the first millennium BCE. The first root ("to dig, search") may have been real-

^{3.} See, e.g., Choon-Leong Seow, A Grammar for Biblical Hebrew, rev. ed. (Nashville: Abingdon, 1995), 13.

^{4.} Joshua Blau, *Phonology and Morphology of Biblical Hebrew*, LSAWS 2 (Winona Lake, IN: Eisenbrauns, 2010), 108–9.

^{5.} See "Qamets in the Tiberian Hebrew Tradition" in ch. 3 §16.

^{6.} The shift in quality from what was previously $|\bar{a}|$ to $|\hat{a}|$ (= [5]) was simultaneous with the shift of short /o/ or /u/ to $|\hat{a}|$ (= [5]). The exact pronunciation of the vowel in terms of its length is much more complicated; see Khan, "Tiberian Pronunciation Tradition," 4.

ized with a lighter, less guttural sound than the second ("to be ashamed"): *hāpərū versus *hāpərū.⁷

In addition, knowledge of the history of Hebrew helps explain certain pairs of Hebrew roots, like נטר/נצר both of which seem to derive from a PS/PNWS root *ntr* "to guard." At the least, knowing the link between such roots can aid in the acquisition of vocabulary. For example, it seems helpful to link in one's mind the more common (and hopefully therefore more easily remembered) verb נער ינטר "נער" (which appears with this simple sense at least three times in the Song of Songs, and with the nuance "to preserve anger" in another five passages).⁸ Knowing the link between the two roots also helps explain the etymology of the noun מַטָּרָה "guard, target" (which often occurs in the expression הַעַרָה מַטָּרָה

Pairs of antonyms with similar sounds can also be explained by means of historical phonological developments in the language, as with $\dot{\varphi} = \dot{\varphi} = \dot{\varphi} = \dot{\varphi} + \frac{1}{2} \dot{\varphi} + \frac{1}{2} \dot{\varphi} = sekl < *sikl$ "folly" (Qoh 10:6) versus $\dot{\varphi} = sekl < *sikl$ "prudence" (1 Sam 25:3) and the pair $\dot{\varphi} = s\bar{v}\bar{v}\bar{c}r$ "who are stubborn" (Isa 65:2) versus $\dot{\varphi} = s\bar{v}\bar{v}\bar{c}r < *s\bar{o}r\bar{e}r$ (Esth 1:22). Although sharing a common pronunciation in THT, these pairs of words were earlier distinguished. Such an explanation may also help the student to remember the sense of such pairs. Even if one already knows the vocabulary items individually, it is useful to set them side-by-side and consider them together.

Recognizing commonly occurring variations among roots can help explain other incongruities in the lexicon as well as facilitate sight reading. For example, being alert to the fact that sometimes the same basic root or verb will appear with different sibilants (e.g., *tsade* and *zayin*) makes reading Ps 68:4–5 all the easier (יעלינו "they will rejoice" [v. 4] ... וְעָלִזוּ "rejoice!" [v. 5]). Being aware of the possibility of byforms between certain weak root classes (e.g., II-*vav/yod* and I-*vav/yod*) can also sometimes

^{7.} See below for an explanation of the difference between /ḥ/ and /ḥ/. Similarly, for the first half of the first millennium BCE (if not for a period after), the absence of spirantized allophones for the *begadkepat* letters would mean that words like *nimša*h "he is anointed" (1 Chr 14:8) would be distinct from **nimšak* "he is postponed" (cf. תַמַשָׁן, Ezek 12:25).

^{8.} Although נטר in the sense "to preserve anger" can be explained as derived from another root entirely, it seems likelier that this is simply a nuance of the verb נטר; one can compare, e.g., the use of שמר "to guard" in a similar sense, parallel with נטר, in Jer 3:5, as well as alone in Amos 1:11.

help one quickly identify a possible meaning of a word, such as for וַתְּנִילֵהוּ (from נוק or נוק: Exod 2:9), especially where the context is clear (as in Exod 2:9, which contains the phrase וְהֵינָלְהוּ "and nurse it!" from the more common נוקנילֵקוּ is translated "she nursed it."

Cognizance of the phonology of ancient Hebrew can help explain certain translations, if not provide the grounds for new interpretations. Note, for instance, the translation of גער (in 1 Sam 28:16) "your adversary" in JPS and "your enemy" in NJB, NRSV. The word, however, looks like a defective spelling of the phrase "your cities," that is, a spelling without the *yod mater* (גער (גער (iter the translation for the translation)). The dictionaries (like *HALOT*, Ges¹⁸) suggest that גער (iter the translation the Aramaic equivalent to Hebrew גער (iter the suggestion depends (at least partially) on understanding the relationship between Aramaic v and Hebrew λ . Do other words exhibit this correspondence? If so, how frequently do such correspondences occur in the lexicon of Biblical Hebrew?

Learning more about the morphology of Hebrew in the era of the Bible's authors is also helpful. Such knowledge makes the inflection of words more comprehensible and, thus, easier to remember. If a student learns that through the first millennium BCE the word for "king" was most likely pronounced something like **malk* and not "*melek*," the forms of the word with pronominal suffix are more comprehensible: עַלְכָּר **malkā* "my king," עַלְכָּר **malkāh* "her king," גַּלְכָּר לַיָּרָ <**malkēnū* "our king." In addition, understanding that nouns as seemingly disparate as שַׁלְכָּר "stench," and עָנִי "poverty" all derive from the **qutl* base helps us predict, for example, their consistent form with suffixes: for example, specific to example, their consistent form with suffixes: for example, '<**qodšō* < **qudšahu* (Isa 52:10), עָׁנָי (stench) -

The following book is intended for the intermediate or advanced student who wishes to learn more about the history of the Hebrew language, specifically its phonology and morphology. But, not all historical aspects of the language are treated. I concentrate most on those aspects that will encourage a student to better remember the words and their inflection. Students should not expect to learn every detail in the book; it is most important to learn the general principles. The specific examples that can be memorized are outlined at the end of each chapter.

In addition, this book intends to provide students with a "full" picture of the language's morphology by providing tables of the inflection of individual words for most classes of nouns/adjectives as well as tables that set similar verbal inflections side by side. The nouns/adjectives are classified primarily according to their historical bases which usually reflect common manners of inflection. These tables can also be used by the student as an easy resource in vocalizing unpointed Hebrew texts. Ultimately, it is hoped that the study of the book will provide the student greater access to the texts of the Bible and to other early Hebrew writings.

1.2. Varieties of Ancient Hebrew

Before moving on to studying the sounds and forms of Biblical Hebrew, we should pause and consider the varieties of the Hebrew language in antiquity. In the first half of the first millennium BCE (1000-500 BCE), one can imagine a variety of dialects and subdialects of Hebrew spread across the southern Levant. Ultimately, these dialects, in contact with Phoenician to the north and Aramaic to the east, would have exhibited different traits, partially dependent on their proximity to these other languages.⁹ The northern varieties of Hebrew, as attested in inscriptional material, do, in fact, seem to attest certain features common to Phoenician, but distinct from the Hebrew of the southern region, that is, Judah. For example, the word "wine" is found in ostraca from Samaria written yn in the absolute state, reflecting presumably a resolved diphthong, yen, while the same word is found in Judean texts spelled with a medial yod, presuming the preservation of the diphthong, yyn = *yayn.¹⁰ Scholars, especially Gary A. Rendsburg, have found traces of similar features in portions of the Bible.¹¹ The dialect of the Balaam or Deir 'Alla inscription, on the other hand, evidences traits that are similar to Hebrew, though it mainly contains Aramaic-like features, reflecting in one way or another its presumed place of composition (and discovery): Transjordan (i.e., just east of the Jordan River, close to Aram-Damascus).¹² It is no wonder, therefore, that

^{9.} On the dialect continuum of Syria-Palestine, see W. Randall Garr, *Dialect Geography of Syria-Palestine*, 1000–586 B.C.E. (Philadelphia: University of Pennsylvania, 1985), 205–40.

^{10.} See ibid., 38–39, and below "Triphthongs and Diphthongs," §3.12.

^{11.} See Gary A. Rendsburg, "A Comprehensive Guide to Israelian Hebrew," *Or* 38 (2003): 5–35 and the references cited there.

^{12.} See Holger Gzella, "Deir 'Allā," *EHLL* 1:691–93. The inscription's mixture of traits may reflect an archaic, rural dialect; the dialect geography between the Canaanite west and Aramaic east; the shift in political dominance from Israel to Damascus. Note also Garr, *Dialect Geography*, 223–24; John Huehnergard, "Remarks on the Classification of the Northwest Semitic Languages," in *The Balaam Text from Deir 'Alla Re*-

within the Bible itself we find numerous small differences between books, sources, and authors that are commonly dated to the first half of the first millennium BCE.

In addition to the different dialects reflective of geographic location, different varieties of the literary language are perceptible within the Bible. The Hebrew of the biblical corpus itself is typically divided into four different epochs: Archaic Biblical Hebrew, Standard Biblical Hebrew, Transitional Biblical Hebrew, and Late Biblical Hebrew.¹³ The first three of these are commonly located between the years 1200-500 BCE. Standard Biblical Hebrew represents the language of most books of the Bible. Archaic Biblical Hebrew is exemplified in the the Song of Deborah (Judg 5), which contains much material that is typically considered both extremely old as well as reflective of northern Hebrew (e.g., some *qåțal* 2fs [suffix-conjugation] verb forms end with *-tī [as in Aramaic]: לְמָתִי "you [Deborah] arose" Judg 5:7).14 Transitional Biblical Hebrew is found in works that were composed close to or during the exile, such as Jeremiah.¹⁵ Late Biblical Hebrew is found in books such as Daniel and Ezra, and is exemplified by numerous linguistic shifts that have parallels in the Dead Sea Scrolls and in rabbinic literature.¹⁶

Still, the vocalization of the text as we have it in the MT has likely been made uniform to a degree that largely masks most dialectical and many chronological differences.¹⁷ So, for example, the archaic/northern/

evaluated: Proceedings of the International Symposium Held at Leiden, 21–24 August 1989, ed. J. Hoftijzer and G. van der Kooij (Leiden: Brill, 1991), 282–93; and Na^cama Pat-El and Aren Wilson-Wright, "Deir 'Allā as a Canaanite Dialect: A Vindication of Hackett," in *Epigraphy, Philology, and the Hebrew Bible: Methodological Perspectives on Philological and Comparative Study of the Hebrew Bible in Honor of Jo Ann Hackett*, ed. Jeremy M. Hutton and Aaron D. Rubin, ANEM 12 (Atlanta: SBL Press, 2015), 13–23.

^{13.} On the periodization of Biblical Hebrew and the difficulty of diachronic analysis, see Aaron Hornkohl, "Biblical Hebrew: Periodization," *EHLL* 1:315–25. Specific articles pertain to each of these varieties of the literary language.

^{14.} Instead of קמָת See Hornkohl, "Biblical Hebrew: Periodization," 1:318. See also Agustinus Gianto, "Archaic Biblical Hebrew," *HBH* 1:19–29; Alice Mandell, "Biblical Hebrew, Archaic," *EHLL* 1:325–29.

^{15.} Aaron D. Hornkohl, "Transitional Biblical Hebrew," *HBH* 1:31–42; Hornkohl, *Ancient Hebrew Periodization and the Language of the Book of Jeremiah*, SSLL 74 (Leiden: Brill, 2014).

^{16.} See, e.g., Avi Hurvitz, "Biblical Hebrew, Late," *EHLL* 1:329–38; Matthew Morgenstern, "Late Biblical Hebrew," *HBH* 1:43–54.

^{17.} See Hornkohl, Ancient Hebrew Periodization, 19-20.

Aramaic-like *qåṭal* second feminine singular ending *-*tī* found vocalized in Judg 5:7 seems also to be reflected in the consonantal text of other parts of the Bible, but frequently not in the vocalization (e.g., יְלָלְרָתִי "go down!" Ruth 3:3 and יְלָלְרָתִי "you went" Jer 31:21).¹⁸ In addition, even the consonantal text seems not to have been immune from alteration. It is likely that the spelling of words was also made uniform at a certain time, perhaps in the exilic era or just after.¹⁹ Notice, for example, that the third masculine singular suffix on most nouns is almost uniformly marked with a *vav mater* in the MT, though in epigraphic sources from preexilic times, the same suffix is almost uniformly written with a *heh mater*. The *heh mater* as marker of the third masculine singular suffix becomes regular in epigraphic sources only in the postexilic era. This implies, of course, an updating of the orthography of biblical texts in the exilic or postexilic era.

In the second half of the first millennium BCE (ca. 500–1 BCE), in addition to LBH, one finds evidence of still other varieties of the language.²⁰ The Hebrew of the DSS evidences (in certain texts) traits that are distinct from any other dialect of Hebrew, while still maintaining a close proximity in other ways to earlier (Biblical) Hebrew.²¹ Many of these texts were presumably written and certainly were copied in circa 200–1 BCE. Other loosely contemporary dialects were also written. The Hebrew evidenced in early rabbinic writings such as the Mishnah is foreshadowed in a few DSS (e.g., 4QMMT and 3Q15 [the Copper Scroll]). Later Judean Desert texts (e.g., the Bar Kochba texts from the 100s CE) exhibit a slightly different version of Hebrew.²² In addition, Samaritan Hebrew was likely a distinct dialect (based on various textual, social, and political factors),

21. See, e.g., Elisha Qimron, *Hebrew of the Dead Sea Scrolls*, HSS 29 (Atlanta: Scholars Press, 1986); Eric D. Reymond, *Qumran Hebrew: An Overview of Orthography, Phonology, and Morphology*, RBS 76 (Atlanta: Society of Biblical Literature, 2014); Steven E. Fassberg, "Dead Sea Scrolls: Linguistic Features," *EHLL* 1:663–69; Jan Joosten, "The Hebrew of the Dead Sea Scrolls," *HBH* 1:83–97.

22. See Uri Mor, Judean Hebrew: The Language of the Hebrew Documents from Judea between the First and Second Revolts (Jerusalem: Academy of the Hebrew Language, 2016) (in Hebrew); also Mor, "Bar Kokhba Documents," *EHLL* 1:254–58.

^{18.} See GKC §44h.

^{19.} See ibid., 72-73.

^{20.} See Gary A. Rendsburg, "Biblical Hebrew: Dialects and Linguistic Variation," *EHLL* 1:338–41; Geoffrey Khan, "Biblical Hebrew: Linguistic Background of the Masoretic Text," *EHLL* 1:304–15; Khan, "Biblical Hebrew: Pronunciation Traditions," *EHLL* 1:341–52.

though its details only become clear from evidence recorded in the early twentieth century CE (specifically the oral reading tradition of the Samaritan Pentateuch).²³ Nevertheless, this version of Biblical Hebrew seems to reflect traits from a much earlier era, as demonstrated by the second feminine singular *qåțal* (suffix-conjugation) verb forms regularly ending with *-*ti*, as in the paradigmatic verb $f\bar{a}qadti.^{24}$

During the first millennium CE, in addition to the varieties of Rabbinic Hebrew, there were preserved different pronunciation traditions of Biblical Hebrew, including ones from the regions of Tiberias, Palestine, and Babylon.²⁵ The latter two are primarily known to us through their unique pointing and vocalization systems (the Palestinian and Babylonian) which reveal a different articulation of the vowels from that known to us from the Tiberian Masoretic system.²⁶

Furthermore, for all times and places, we must recognize that the manner in which individuals read and spoke varied by context. An individual in a ritual context would speak in a manner very different from how he or she would speak in the context of discussing the weather with a friend. Similarly, that same individual would speak of the weather in one way, but probably write about it in yet another. Due to such variables, words were likely articulated in subtly different ways and sometimes these were reflected in the orthography while in other cases they were not.

^{23.} Moshe Florentin, "Samaritan Hebrew: Biblical," *EHLL* 3:445–52; Florentin, "Samaritan Tradition," *HBH* 1:117–32.

^{24.} Ze'ev Ben-Hayyim, A Grammar of Samaritan Hebrew: Based on the Recitation of the Law in Comparison with the Tiberian and Other Jewish Traditions (Jerusalem: Magnes; Winona Lake, IN: Eisenbrauns, 2000), 108. Ben-Hayyim notes that, although this trait might have been preserved due to Aramaic influence, it likely originates in Hebrew (103–4).

^{25.} See Khan, "Biblical Hebrew: Pronunciation Traditions," 1:341–52; Khan, "Tiberian Reading Tradition," *EHLL* 3:769–78; Yosef Ofer, "The Tiberian Tradition of Reading the Bible and the Masoretic System," *HBH* 1:187–202; Shai Heijmans, "Babylonian Tradition," *HBH* 1:133–45; Joseph Yahalom, "Palestinian Tradition," *HBH* 1:161–73.

^{26.} Note too the Tiberian-Palestinian tradition (see Holger Gzella, "Tiberian-Palestinian Tradition," *HBH* 1:175–85).

2 Phonology of Ancient Hebrew: Consonants

In this chapter I first describe the values for the graphic symbols familiar to us from an elementary study of Biblical Hebrew. The inventory of phonemes that these letters represent is slightly more complex than is often presented in an elementary Hebrew course. Next I describe the consonantal phonemes common to PS and PNWS before describing various relationships between roots and words based on correspondences between these phonemes. The vowels will be addressed in the next chapter.

2.1. Classical and Tiberian Biblical Hebrew Consonants

The number of Hebrew consonantal phonemes thought to exist for the majority of the first millennium BCE is probably the following, together with the Hebrew/Aramaic letters used to represent them. Also included in a separate column to the right, for comparison, are the phonemes of Tiberian Hebrew (ca. 800 CE); the spirantized allophones of the *begadkepat* letters are in parentheses. It should be recognized at the outset that we do not know precisely the articulation of the various phonemes; the values presented below are merely approximations.

Phonemes of Classical Biblical Hebrew, ca. 800 BCE	letter	Phonemes of (Tiberian) Biblical Hebrew, ca. 800 CE	
)	ж)	
b	ב	b (v)	
g	z	д (к)	
d	Т	d (<u>d</u>)	

 Table 2.1. Consonantal Phonemes of Biblical Hebrew

h	л	h
W	٦	W
Z	T	Z
<u></u> <u></u>	п	ķ
<u> </u>	п	ķ
ţ	υ	ţ
у	۲	у
k	2	k (χ)
1	ک	1
m	מ	m
n	د	n
S	ס	S
<u>ر</u>	ע	c
ġ	ע	c
p	٩	p (f)
ş	Y	Ş
ķ	ק	q
r	ר	r
<u> </u>	Ф	S
š	ש	š
t	л	t (<u>t</u>)

Most of the transliteration symbols for the phonemes are recognizable from a basic knowledge of our modern languages. In some cases, however, a brief explanation is helpful. The /[?]/ (IPA [?]) is the glottal stop, the momentary halting of the air flow that goes through the glottis (the opening between the vocal chords), expressed, for example, in the Cockney English pronunciation of "better," *be*²*uh*, as well as in some varieties of North American English as in the pronunciation of "Bat Man" *ba*²*man*, "atmosphere" *a*²*masfeer*, "delightful" *dalie*²*ful*.¹ Spirantized *gimel* in Tiberian Biblical Hebrew was pronounced like the Parisian French *ar* (i.e., a

^{1.} See David Eddington and Michael Taylor, "T-Glottalization in American Eng-

voiced uvular fricative; see the IPA audio example B).² The spirantized *dalet* $(/\underline{d}/ = IPA [\eth])$ in THT would have been realized as the "th" in North American English "this." The /h/ (IPA [x]), the voiceless velar fricative, represents the sound found in the North American English pronunciation of "Chanukkah" (IPA [xanəkə]) and "chutzpah" (IPA [xʊtspə]).³ This sound is very close to the voiceless uvular fricative IPA $[\gamma]$, though the $[\chi]$ is its own sound; it is the pronunciation of spirantized *kaph* in THT.⁴ The degree to which ancient Hebrew speakers could distinguish the two sounds (i.e., IPA [x] and [y]) is an open question. The sound of /h/ (IPA [ħ]) is a "lighter" sound than /h/, but more forceful (and easier to hear) than simple /h/ (IPA [h]). The *ayin* (IPA [s]) has been likened to "the guttural noise made by a camel being loaded with its pack saddle."5 For /g/, the voiced velar fricative, see the IPA audio example for [y]. It sounds like a combination of a /g/ and an $/^{c}/$. The /q/ represents the sound of a uvular stop; see the IPA audio example under [q]. It is pronounced deeper in the throat than /k/. In Classical Hebrew the *qoph* letter represented an

4. See Khan "Tiberian Pronunciation Tradition," 8. Others, however, view spirantized *kaph* as a velar fricative, i.e., IPA [x]. Edzard lists two possibilities for spirantized *kaph* in Tiberian Hebrew: "[x or χ]" ("Biblical Hebrew," 482). If spirantized *kaph* represents [x], then the /h/ phoneme might have been realized as a uvular fricative, i.e., [χ]. These are the explicit equivalences suggested by Aron Dolgopolsky, *From Proto-Semitic to Hebrew: Phonology, Etymological Approach in a Hamito-Semitic Perspective*, Studi Camito-Semitici 2 (Milan: Centro Studi Camito-Semitici, 1999), 67.

5. C. Huart, *Littérature arabe* (Paris: Colin, 1902), 139; cited and translated by Joüon \$5l. Joüon also note the possibly onomatopoeic Arabic word *u*^c*u*^c "vomiting" (citing W. Wright et al., *A Grammar of the Arabic Language*, 3rd ed. [Cambridge: Cambridge University Press, 1896–1898], 1:295).

lish," *American Speech* 84 (2009): 298; and John Goldsmith, "Two Kinds of Phonology," http://tinyurl.com/SBL0395b.

^{2.} See Khan, "Tiberian Pronunciation Tradition," 4. Audio examples are available from the University of Victoria website: https://web.uvic.ca/ling/resources/ipa/charts/IPAlab/IPAlab.htm.

^{3.} For the phonetic transliterations, see *OED*, s.v. That the /h/ phoneme was realized as [x] is suggested by Gary A. Rendsburg, "Ancient Hebrew Phonology," in *Phonologies of Asia and Africa*, ed. Alan S. Kaye (Winona Lake, IN: Eisenbrauns, 1997), 1:71 and Lutz Edzard, "Biblical Hebrew," *SLIH*, 482–83. This seems to have been the articulation of the equivalent consonant in Ugaritic (Josef Tropper, *Ugaritische Grammatik*, AOAT 273 [Münster: Ugarit-Verlag, 2000], 121; Dennis Pardee, "Ugaritic," *CEWAL*, 292) and in Proto-Semitic (John Huehnergard, "Afro-Asiatic," *CEWAL*, 142).

emphatic /k/.⁶ (For a description of emphatics, see below.) The exact pronunciation of *resh* in the first millennium BCE is unknown. In THT it may have been articulated back in the throat, as a voiced uvular roll/trill (IPA [R]), but near alveolars (/d/, /z/, /ş/, /t/, /t/, /s/, /l/, /n/) or *shewa* as a voiced alveolar roll/trill (IPA [r]), essentially the same as the Spanish pronunciation in the word *perro* ("dog"); consult the audio examples online.⁷ The /ś/ represents a lateral fricative (IPA [ɬ]). It is a sound between an /s/ and an /l/. Imagine holding a piece of candy to the roof of your mouth with your tongue and saying the word "slow"; the sound you produce in pronouncing the /sl-/ is close to /ś/. The phoneme is thus distinct from the /s/-sound which was represented by *samek* (IPA [s]). The spirantized *tav* in THT, /t/, would have been realized as in North American English "thin" (cf. /d/ in "this").

The emphatics were, in PS, pronounced with a following glottal stop $(t = IPA [t^2]; s = [s^2]; k = [k^2]$ as in Ethiopic and Modern South Arabian).⁸ In PNWS and later Hebrew, they were perhaps pharyngealized (i.e., pronounced with a following *ayin* sound: $t = IPA [t^s]$), or perhaps they remained glottalized, that is, pronounced with a following glottal stop, or even velarized (pronounced with a following /ġ/ sound: $t = IPA [t^y]$).⁹

2.2. Begadkepat

The spirantized versions of the *begadkepat* consonants were allophones, that is alternative pronunciations, of the relevant phonemes. These generally appear in THT after a syllable that ends with a vowel. They do not imply a different meaning for a word. The word "house" would have been pronounced *bayit* when preceded by a consonant but as *vayit* when imme-

^{6.} It can be pointed out here for the sake of clarity that the prototypical root *qtl* might be more accurately transliterated *ktl* for this reason. The spelling with "q" is used instead out of convention.

^{7.} See Khan "Tiberian Pronunciation Tradition," 11–12.

^{8.} See Rendsburg, "Ancient Hebrew Phonology," 73.

^{9.} John Huehnergard ("Features of Central Semitic," in *Biblical and Oriental Essays in Memory of William L. Moran*, ed. Agustinus Gianto, BibOr 48 [Rome: Pontifical Biblical Institute, 2005], 167–68) specifies that pharyngealization may have been a feature of the even earlier Central Semitic. See also Joüon \$5i; Rendsburg "Ancient Hebrew Phonology," 75–76; P. Kyle McCarter, "Hebrew," *CEWAL*, 324; Blau, *Phonology and Morphology*, 68; Leonid Kogan, "Proto-Semitic Phonetics and Phonology," *SLIH*, 60–65.

diately preceded by a prefixed particle like בְּבַיָת (e.g., הְבָרַת 'in" (e.g., יָשָׁלוּ 'in a house" Exod 12:46). When a word ending in a vowel (e.g., יאַמָלוּ 'they went up (to)" or אַמָלוּ 'you will go up (to)") precedes such a *begadkepat* phoneme, the letter could be pronounced in either way; thus, the word "house" could be pronounced *bayit* (see, e.g., Hos 4:15) or *vayit* (see, e.g., Judg 1:22). Whether pronounced *bayit* or *vayit*, the word denoted "house"

Since spirantization of consonants is triggered due to an immediately preceding vowel, it is assumed that where the spirantized consonant comes after a consonant an immediately preceding vowel has been lost or elided. For example, in the construct singular form בְּרְכַת "blessing of," the spirantized *kaph* reflects the earlier presence of a vowel before the *kaph*: **barakatu* > **barakat* > **barkat* (בִּרְכַת >). This, of course, presupposes that the *begadkepat* letters spirantized before vowel reduction became widespread (and then continued to be pronounced as spirantized consonants even when they were no longer preceded by a vowel). This sequence of developments also helps explain why the *kaph* in the expression "מֵלְכֵּי "my king" is not spirantized (it developed from **malkiyya*), but the *kaph* in "kings of" is (it developed from **malakay*).

The spirantized pronunciation of the six *begadkepat* phonemes appeared probably sometime in the second half of the first millennium BCE.¹⁰ When exactly this took place is, however, unclear. Many scholars suggest that it took place approximately in 400 BCE.¹¹ By contrast, some, like P. Kyle McCarter, suggest it was later. McCarter writes that spirantization may have taken place "in the second half of the first century BC," though he cautions in relation to the *begadkepat* allophones that "their existence before the Common Era is not unambiguously documented."¹²

Part of the question relates to when /h/ and /g/ disappeared from the language (for which see below).¹³ The spirantized pronunciation of *gimel*

^{10.} For evidence from Greek transliterations, see Gerard Janssens, *Studies in Hebrew Historical Linguistics Based on Origen's Secunda*, OrGand 9 (Leuven: Peeters, 1982), 45–50.

^{11.} See Gotthelf Bergsträsser, *Hebräische Grammatik* (Leipzig: Hinrichs, 1918– 1929), 1:§6m; Rendsburg "Ancient Hebrew Phonology," 75; Edzard, "Biblical Hebrew," 483.

^{12.} McCarter, "Hebrew," 330.

^{13.} Another related question is the time of spirantization in Aramaic since the spirantization in Hebrew is thought to derive from Aramaic. On Aramaic, see Klaus

(IPA [B]) and *kaph* (IPA [χ]) was very close to the pronunciation of /ġ/ (IPA [χ]) and /ĥ/ (IPA [χ]), respectively. Therefore, if spirantization took place before /ġ/ merged with /^c/ and before /ĥ/ merged with /ĥ/, then one would expect confusion between these sounds and frequent misspellings of *gimel* for *ayin* (= /ġ/) and *ayin* for spirantized *gimel* as well as *khet* (= /ĥ/) written for spirantized *kaph* and *kaph* for *khet*. Since this does not happen with any regularity, one might conclude with McCarter that spirantization did not take place before circa 50 BCE.¹⁴

Beyer, *Die aramäischen Texte vom Toten Meer* (Göttingen: Vandenhoeck & Ruprecht, 1984–1994), 1:126–28 and note Steiner's arguments described below, n. 15.

^{14.} Although the DSS do evidence at least three cases of misspellings related to *khet* and *kaph* (אחלו corrected to אמלו "they will eat" 4Q514 1 I, 6; הכול to הכול "the sand" 4Q225 2 I, 6; ניחוח^כם "the sand" 4Q225 2 I, 6; ניחוח^כם "your pleasing sacrifice-odor" 4Q270 7 I, 18), only the last involves an etymological /b/. See Reymond, *Qumran Hebrew*, 70–71.

^{15.} Richard C. Steiner, "Variation, Simplifying Assumptions, and the History of Spirantization in Aramaic and Hebrew," in *Sha^carei Lashon: Studies in Hebrew, Aramaic, and Jewish Languages Presented to Moshe Bar-Asher; Vol I: Biblical Hebrew, Masorah, and Medieval Hebrew*, ed. A. Maman, S. E. Fassberg, and Y. Breuer (Jerusalem: Bialik Institute, 2007), *52–*65. Steiner notes (*55–*56) that some Caucasian languages distinguish [χ], [x], and [h]. Furthermore, he notes (*54) that in Samaritan Hebrew, one does not see the spirantization of *gimel* and *kaph*, which might imply that these consonants spirantized at a later time. He also cites similar possible evidence for Syriac. His article emphasizes that different consonants spirantization occurred in Aramaic only very late.

^{16.} The examples אחלי and ניחוח^cם from the DSS are compatible with this hypothesis. 4Q514 is dated to the mid-first century BCE and 4Q270 to the first half of the first century CE (see B. Webster, "Chronological Index of the Texts from the Judaean Desert," in *The Texts from the Judaean Desert: Indices and an Introduction to Discoveries in the Judaean Desert Series*, ed. E. Tov et al., DJD 39 [Oxford: Clarendon, 2002], 400 and 426).

reduction took place at the very latest in the first century BCE, spirantization must have taken place in an earlier era.

2.3. Classical Hebrew /h/, /ġ/, /ś/

The inventory of Classical Biblical Hebrew phonemes listed above is three greater than the number of graphic letters used to represent these sounds. This resulted in some letters representing more than one phoneme. Specifically, three letters were used to represent two phonemes each. The *khet* represented the phonemes /h/ (IPA [h]) and /h/ (IPA [x]). The *ayin* represented /^c/ (IPA [ς]) and /ġ/ (IPA [χ]). The *sin/shin* letter represented /ś/ (IPA [4]) and /š/ (IPA [f]). (Recall that the dot that distinguishes *sin* from *shin* is a medieval invention.) The existence of the phonemes /h/, /ġ/, and /ś/ is thought to have existed in the Late Bronze Age Canaanite, as implied by names and words in the El Amarna texts as compared to Egyptian transcriptions.¹⁷ The evidence for these phonemes in the first millennium BCE as well as their approximate time of merger is explained below.

The existence of a lateral fricative sound (/ś/) is suggested by words appearing in Hebrew with a *sin* and in other languages with an /l/. Note, for example, Hebrew equip "Chaldeans" versus Akkadian *kaldu* and Greek $\chi a \lambda \delta a_{101}$; Hebrew equip "balsam" versus Akkadian *baltammu* and Greek $\beta a \lambda \sigma a \mu o v$.¹⁸ The lateral fricative phoneme probably was lost and merged with the /s/ of *samek* some time in the mid-first millennium BCE, based on the relatively common misspellings of etymological /ś/ with *samek* in exilic and later writings (e.g., סֹכְרָים "hiring" Ezra 4:5 versus the expected spelling שׁכְרָים in 2 Chr 24:12)¹⁹ and of /s/ with the *sin/shin* letter (e.g., wicting "folly" Qoh 1:17 vs. the expected spelling of no 2:3 and

^{17.} Daniel Sivan, Grammatical Analysis and Glossary of the Northwest Semitic Vocables in Akkadian Texts of the 15th–13th c.B.C. from Canaan and Syria, AOAT 214 (Kevelaer: Butzon & Bercker; Neukirchen-Vluyn: Neukirchener Verlag, 1984), 50–52.

^{18.} This and other evidence is described by Richard C. Steiner, *The Case for Fricative-Laterals in Proto-Semitic*, AOS 59 (New Haven: American Oriental Society, 1977) and Steiner, "Addenda to *The Case for Fricative-Laterals in Proto-Semitic*," in *Semitic Studies in Honor of Wolf Leslau on the Occasion of his Eighty-Fifth Birthday, November 14th, 1991*, ed. Alan S. Kaye (Wiesbaden: Harrassowitz, 1991), 1499–1513; and with more recent evidence by Kogan, "Proto-Semitic Phonetics and Phonology," 71–80.

^{19.} Note also גָּרְסָת "is crushed" (Ps 119:20) and וַיָּגְרֵס (Lam 3:16) vs. גָּרְסָוּת "grits" (Lev 2:16); הַחַרְסָוּת "potsherds" (Jer 19:2) vs. מָרְמָט "fotsherd" (passim); מָרְמָט (Mikhmas" (Ezra 2:27 and Neh 7:31) vs. מָרָמָט (passim); see Joshua Blau, On Pseudo-

passim).²⁰ Students should be aware that, due to the commonness of these misspellings, the dictionaries (BDB, *HALOT*) sometimes will list verbs according to their etymology. Thus, if one encounters a word spelled with *sin* and cannot find it in the dictionary under this letter, one should look the word up under *samek*.

The merger of /ġ/ and /ʿ/ is thought to have taken place, according to Blau, in the spoken language some time after the Septuagint (= LXX) translation of Genesis (slightly before ca. 200 BCE) and in the reading tradition some time later; Steiner suggests that the merger had taken place at least by the first century CE.²¹ Note, for example, the following correspondences that suggest an etymological /ġ/ was still recognized by the LXX translators of the Pentateuch: אָסְטְסָאָם for עָמָרָה Gomorrah"; אָמגָם for עָמָרָ "Gaza"; אָסעָס for דָיָשָׁרָ (an "omer" measure).²² By contrast, etymological /ć/ was not represented with a corresponding Greek letter, as seen in שִׁמָרָ for יַשָּלָר "Jacob."²³ It should be noted, however, that the evidence for the existence of /ġ/ in early Hebrew is not as strong as that for /ḫ/; some of the evidence is ambiguous and there is some contradicting evidence.²⁴ All the

21. Joshua Blau, *On Polyphony in Biblical Hebrew*, PIASH 6/2 (Jerusalem: Israel Academy of Sciences and Humanities, 1982), 39–40, 70; Richard C. Steiner "On the Dating of Hebrew Sound Changes (*H > H and *G >) and Greek Translations (2 Esdras and Judith)," *JBL* 124 (2004): 247, 266; Steiner, "Variation, Simplifying Assumptions," *56 n. 15.

22. Blau, *Polyphony*, 33–35. Further evidence is provided by Steiner "On the Dating of Hebrew," 229–67.

23. Blau, Polyphony, 21.

24. See ibid., 19–20, 36, 39, 70; Dolgopolsky, *From Proto-Semitic to Hebrew*, 65–69, 154; Steiner, "On the Dating of Hebrew," 232; Kogan, "Proto-Semitic Phonetics and Phonology," 116. Geoffrey Khan ("Some Parallels in Linguistic Development between Biblical Hebrew and Neo-Aramaic," in *Semitic Studies in Honour of Edward Ullendorff*, ed. Geoffrey Khan, SSLL 47 [Leiden: Brill, 2005], 92–93) emphasizes three points: (1) the existence of the relevant phonemes in one dialect (e.g., that of the LXX)

Corrections in Some Semitic Languages (Jerusalem: Israel Academy of Sciences and Humanities, 1970), 114–20.

^{20.} Note also גָשָׁרָ "turned back" (2 Sam 1:22) vs. גָסָאָרָ (passim); שָׁאָרָ "will clap" (Job 27:23) vs. יָשָׁרָ (Job 34:37 and passim); שָׁעָרָ (Job 17:7 and three other times in Job) vs. יָסָאָר "anger" (passim). For more explanations, see Blau, *Pseudo-Corrections*, 120–25. Some cases are ambiguous, as with שור "to hedge" (Job 1:10, Hos 2:8) vs. יסוד סוד (Job 3:23, 38:8); אָשׁרָה "hedge" (Prov 15:19) vs. יְסָאָרָה "hedge" (Mic 7:4); "to hedge" (Jab 2:2) vs. יסָעָרָה "storm" (Isa 28:2) vs. יסָעָרָה "storm" (Passim); אַשָּרָה "storm" (Passim); see Blau, *Pseudo-Corrections*, 115–16.

same, it seems likely that /ġ/ was articulated in some registers and dialects of Biblical Hebrew in antiquity before the Common Era.

The merger of /ḫ/ and /ḥ/ began, according to Steiner, in circa 100 BCE in the spoken language and circa 100 CE in the reading tradition.²⁵ Note, for example, the following correspondences that suggest an etymological /ḫ/ was still recognized by the LXX translators of the Pentateuch: χορραι for אָרָקָרָן "Horite," χαρραν for הָרָן "Harran," χετ/χεται for הֹרָי "Heth"/"Hittite"; and ραχηλ for רָחֵל "Rachel."²⁶ By contrast, etymological /ḥ/ was not represented with a corresponding Greek letter, as seen in ἰσαακ for יָצָתָרָ

The fact that the letter *khet* likely represented the phoneme /h/ (along with /h/) for most of the first millennium BCE means that the pronunciation for at least some words in the modern classroom, although not reflecting THT, may, in fact, be the same as an even earlier pronunciation. Thus, the pronunciation of \dot{r} (Rachel" in the contemporary classroom as [raxel] is closer in some ways to the earlier first millennium $r\bar{a}h\bar{e}l$ [Ra:xe:l] than the medieval rahel [Ro:he:l].

Recognizing the existence of these three phonemes, /h/, /ġ/, and /ś/, helps explain some of the paradoxes of the Biblical Hebrew lexicon, especially the existence of some antonymous words with similar spelling. Two distinct pronunciations /s/ and /ś/ suggest that early speakers could distinguish words like אָל (= sɛkl < *sakl) "folly" (Qoh 10:6) and עָׁכָל (= sɛkl < *sikl < *sikl) "prudence" and similarly the *hiphil* forms of the two related verbs הִסְבָּלְתִי (< *hiskaltī) "I have acted like a fool" (1 Sam 26:21) and '= (< *hiskaltī < *hiskaltī) "I understand" (Ps 119:99).²⁸ Note also הָשָׁבָלְתִי (to be stubborn" (e.g., סוֹרָר >sōrēr "who are stubborn" Isa 65:2) and "to act as a prince" (e.g., שׁׁרָר *sōrēr < *sōrēr "one who rules"

does not necessitate the existence of the same phonemes in other dialects (e.g., that which led eventually to the Tiberian tradition); (2) conceivably the different pronunciations of Greek names reflect allophones in the underlying Hebrew dialect; (3) the articulation of Greek names may have retained a more antique pronunciation than other words in the language. In relation to this last point, however, note the pronunciation of the common noun טָׁמָר

^{25.} Steiner, "On the Dating of Hebrew," 266.

^{26.} Blau, *Polyphony*, 62. Blau lists many examples from the LXX. Further evidence is provided by Steiner "On the Dating of Hebrew," 229–67.

^{27.} Blau, Polyphony, 52.

^{28.} On the phonemic contours of segolate nouns, see the subsection "Segolate Nouns" in ch. 4 18.

Esth 1:22); סתר niphal "to hide" (e.g., וַיִּסְתֵר < *wayyissāter < *wayyissatir "he hid" 1 Sam 20:24) and שתר niphal "to break out" (e.g., וַיִּשְׁתְרוּ *wayyissātərū < *wayyiśśatirū "they broke out" 1 Sam 5:9).²⁹

Similarly, two distinct pronunciations for *ayin* suggest why speakers for most of the first millennium BCE could distinguish $= \forall rb$ "to stand as surety, to barter" (e.g., לַשָּׁרָב, $< la'r\bar{o}b$ "to barter" Ezek 27:9) and $= \forall rb$ "to turn to evening" (e.g., לַשָּׁרָב, $< lagr\bar{o}b$ "to turn to evening" Judg 19:9); ישָר (ar niphal "to hoe" (e.g., יַשָּׁרָר, < ye^cāder "it will [not] be hoed" Isa 5:6) and יש (to be lacking" (e.g., גַּשָּׁרָר, < migdar "[nothing] was lacking" 1 Sam 30:19).

The distinction between these phonemes should also inform any discussion of wordplay and double entendre. Although wordplay may be only approximate (i.e., between words that merely sound similar, not identical), it is still the case that at least some speakers would have been able to distinguish more words than might at first be obvious.

In the lists above, it is assumed that a distinct pronunciation would help scribes distinguish words that were graphically identical. This is not to deny, however, that ancient Hebrew, like other languages, contained what are sometimes called "contradictanyms" or "Janus words," that is, words with the same sounds but opposite meanings (as in English "to cleave," meaning "to divide" and "to cleave" meaning "to stick to").³⁰ Note,

^{29.} It should be noted that many of the examples are cited from works that do (or, at least, might) date from the latter half of the first millennium BCE when /ś/ and /s/ had merged; therefore, the writers of Qohelet, Esther, etc., might not have been aware of the phonetic difference between these words. Nevertheless, presumably these words existed in the first half of the first millennium BCE and, if so, earlier writers would have been able to distinguish them. It goes without saying, of course, that there was a distinction in this early period not only between /s/ and /ś/, but also between these phonemes and /š/, facilitating distinctions between the above words and "שׁרל" to be childless," "שׁרל" to make abundant" (only once in Jer 15:11 *qere*).

^{30.} This category of words has many unofficial labels. Dictionary.com lists "antilogy," "autoantonym," "contranym," "contronym," "enantiodrome," "Janus word." The label "contradictanym" is also sometimes found, as in Ben Schott, *Schott's Original*

for example, the two words אָָסֶד "shame" and לָּסָד "loving-kindness" have nearly opposite meanings.³¹ In other cases, the very same word or phrase expresses apparently contradictory senses (like in English "to dust," i.e., to clear of dust, as in "dusting" the shelf, or to introduce dust, as in "dusting" a cake with sugar). Note, for example, the Hebrew phrase אין "to lift iniquity" can mean either to bear guilt (i.e., bear responsibility for) or to forgive an offense.³²

It should also be kept in mind that the exact etymology of many words is uncertain. Steiner notices, for example, that the Hebrew name "delta" may derive potentially from *hbr* or *hbr*.³³ Finally, given the numerous variables in language, even with a clear etymology, it is not certain that in any given word a particular phoneme would be pronounced according to its historical pronunciation. One may note, for example, that in Akkadian etymological /h/ is usually not realized as a consonant. Thus, the etymological root **bhr* "to choose" is usually realized in Akkadian as a verb *bēru* "to choose." However, in cases where Akkadian has borrowed a word from Aramaic, the etymological /h/ is articulated instead as /ĥ/, as in the alternative form for the same verb *behēru* "to select."³⁴ Similarly,

33. Steiner, Fricative-Laterals, 44, 74.

34. For the examples from Akkadian, see Kathleen Abraham and Michael Sokoloff, "Aramaic Loanwords in Akkadian—A Reassessment of the Proposals," *AfO* 52

Miscellany (New York: Bloomsbury, 2002), 40. The two meanings of "cleave" correspond to two different roots, according to the *OED*.

^{31.} Note also דמם "to be silent" and דמם "to wail" (following HALOT; cf. Ges¹⁸); and הוה "to fall" (+ הָוָּה "destruction") and הוה "to become." The mergers of the phonemes discussed above meant, of course, an increase in the number of contradictanyms, like (sekl < *sakl) "folly" and שֵׁכֵל (sekl < *sikl) "prudence."

hilb "milk" appears for etymological **hlb*. Tropper notes that a nearby sibilant or sonorant in an Akkadian root seems to effect a phonetic shift from etymological /h/ to /b/, as in *rahāṣu* "to flood, wash" from PS **rhṣ*.³⁵ All things considered, then, it is often difficult to be absolutely sure how the relevant consonants of a word were pronounced in Classical Hebrew. Therefore, when transliterating words I have marked with an asterisk words including the phonemes /h/ and /ġ/. The articulation of /ś/, on the other hand, is clear from the consistent distinction in spelling in early Hebrew (i.e., words with /ś/ are usually spelled with a *sin/shin* and not a *samek*).

Students may get a better idea about the scholarly opinion about the etymology of words spelled with *khet* and *ayin* by consulting the dictionary *Ges*^{18,36} Generally speaking, one may get a picture of the etymological root consonants by consulting cognate words in the other Semitic languages. For /ḫ/ and /ġ/ the most helpful languages include Ugaritic, Akkadian, and Arabic.

^{(2011): 28, 33.} Note the criticisms in Michael P. Streck, "Akkadian and Aramaic Language Contact," *SLIH*, 416–24. Similarly, note the appearance of /h/ for Aramaic /h/ in some dialects of Arabic (see Jan Retsö, "Aramaic/Syriac Loanwords," in *Encyclopedia of Arabic Language and Linguistics*, ed. K. Versteegh et al. [Leiden: Brill, 2005– 2009], 1:181).

^{35.} Josef Tropper, "Akkadisch *nuhhutu* und die Repräsentation des Phonems /h/ im Akkadischen," *ZA* 85 (1995): 65. John Huehnergard ("Akkadian h and West Semitic *h," in *Studia Semitica*, ed. Leonid Kogan, Orientalia 3 [Moscow: Russian State University Press, 2003], 102–19) criticizes Tropper's conclusions and suggests that the evidence points to an otherwise unknown PS phoneme IPA [x] that developed into /h/ in Akkadian and /h/ in West Semitic. See also Alexander Militarev and Leonid Kogan, *Semitic Etymological Dictionary*, 2 vols., AOAT 278 (Münster: Ugarit-Verlag, 2000–2005), 1:lxxiii–lxxv.

^{36.} The etymological identifications in this dictionary are easy to read and comprehend. In many cases, one finds a "?" and no etymological root is suggested. *HALOT* also contains frequent references to etymological root consonants. More thorough treatments for some words are found in, e.g., Militarev and Kogan, *Semitic Etymological Dictionary*; Leonid Kogan, "Proto-Semitic Lexicon," *SLIH*, 179–258; and David Cohen, *Dictionnaire des racines sémitiques, ou attestées dans les langues sémitiques*, 10 vols. (Leuven: Peeters, 1994–).

2.4. Pronunciation of Gutturals

Although the guttural consonants seem to be weakened in their pronunciation in at least some spoken dialects of ancient Hebrew by the first century CE, the gutturals continue to be distinguished in most reading traditions of BH.³⁷ One gets a sense of the relative degree to which gutturals weakened in the first century BCE by considering how often words with gutturals are misspelled in the DSS. Since *aleph* is intrinsically the most difficult of the gutturals to articulate, especially in certain positions (e.g., at the end of a syllable or word), words containing *aleph* (as well as *resh*) are the most frequently misspelled. Next in frequency are words spelled with *he*, also a consonant inherently difficult to articulate at the end of words and syllables. Words containing *ayin* are less frequently misspelled and words with *khet* are usually spelled correctly. Furthermore, evidence from the LXX, the Secunda, and Jerome's transcriptions provides indirect evidence for the existence of gutturals.³⁸

2.5. Proto-Semitic/Proto-Northwest Semitic */t/, */d/, */ś/, */t/

In addition to the phonemes listed above in the chart, PS and PNWS are thought to have contained four other phonemes.³⁹ These include the voiced and unvoiced dental fricatives (/t/ and /d/ respectively), the emphatic lateral fricative (/ $\frac{1}{2}$ /),⁴⁰ and the emphatic interdental (/t/).⁴¹ These phonemes

40. The PS/PNWS emphatic lateral fricative is transliterated often according to the transliteration of the Arabic letter to which it corresponds etymologically (/d/). This practice is problematic for several reasons. First, the Arabic letter is only in some dialects realized phonetically as an emphatic voiced dental stop/plosive (/d/); the "classical pronunciation [of $d\bar{a}d$, i.e., /d/ or (ض is as lateral emphatic spirant (thus a sound distantly related to 1)" (Gotthelf Bergsträsser, *Introduction to the Semitic Languages: Text Specimens and Grammatical Sketches*, trans. Peter T. Daniels [Winona Lake, IN: Eisenbrauns, 1983], 162). Second, the symbol /d/ does not clearly indicate

^{37.} See the analysis in Reymond, Qumran Hebrew, 71-114.

^{38.} Note, e.g., the spellings of /h/ and /ģ/ with χ and γ in the LXX, described above, as well as spellings with two short vowels in sequence in the Secunda (e.g., $\nu \epsilon \epsilon \mu \alpha \nu$ corresponding to נָאָרָן "enduring" Ps 89:38) (see Alexey Yuditsky, "Transcription into Greek and Latin: Pre-Masoretic Period," *EHLL* 3:805).

^{39.} Technically, the phonemes in the above chart do not always represent their presumed articulation in PS/PNWS. See below for another chart that illustrates the assumed phonemes in these earlier strata of the language.

early on merged with other Hebrew/Canaanite phonemes in the following manner: */t/ > /t/ (tav); */d/ > /z/ (zayin); */ś/ > /ș/ (tsade); */t/ > /ș/ (tsade).⁴² The dental fricatives (/t/ and /d/) are the same sounds as those realized in Tiberian Hebrew as the spirantized versions of the *tav* and *dalet*. Yet, unlike in Tiberian Hebrew, in PS/PNWS these were phonemes and, thus, meaningfully distinct from /t/ and /d/, respectively. A verb pronounced with a /d/ (e.g., **dky* [> דָּכָה] "to crush") would be recognized as a verb entirely distinct from another otherwise identical word with a /d/ (e.g., **dky* [> דָּכָה] "to be bright"). The emphatic lateral fricative and interdental (/ś/ and /t/) are simply emphatic versions of previously described phonemes (i.e., they were articulated like the previously described phonemes /ś/ and /t/ followed by a glottal stop in PS/PNWS).

Since these phonemes (*/t/, */d/, */s/, */t/) are reflected to varying degrees in Ugaritic, Aramaic, and Arabic, it is presupposed that they were part of the common ancestor to these languages, in other words, the hypothetical Central Semitic as well as Proto-Northwest Semitic. Nevertheless, it would seem, based largely on the El Amarna tablets, that by the middle of the second millennium BCE they had at least partially disappeared from the southern dialect of NWS spoken in Syria/Palestine.⁴³ Specifically, the El Amarna texts suggest that */s/ had shifted to /s/; that */t/ also had shifted to /s/; that */d/ had perhaps shifted to /z/ (the Sumero-Akkadian cuneiform leaving things ambiguous); that */t/ remained in pronunciation, something revealed not through the cuneiform texts, but through Egyptian transcriptions of names and regular nouns/verbs.⁴⁴ Some scholars (e.g., Rendsburg), suggest that Classical Hebrew of Transjordan (that of the Gileadites) did contain etymological */t/, though the evidence for

the lateral nature of the PS/PNWS phoneme. Due to such confusions, many contemporary scholars of Semitic languages prefer to render the PS emphatic lateral fricative phoneme as $/\frac{1}{2}$.

^{41.} The transliteration of the PS/PNWS emphatic voiceless interdental (/t/) is often transliterated /z/, based on the transliteration of the corresponding Arabic letter. The Arabic letter, however, is only in some dialects realized as an emphatic /z/; in other dialects it is realized as an emphatic voiced interdental fricative (whose IPA symbol is $[\delta^2]$) (Huehnergard, "Afro-Asiatic," 144; Bergsträsser, *Introduction to the Semitic Languages*, 161–62). One can also transliterate the /t/ phoneme as / θ /.

^{42.} For a concise presentation and analysis of the evidence from the various dialects in Syria/Palestine, see Garr, *Dialect Geography*, 23–30.

^{43.} Pardee, "Ugaritic," 389.

^{44.} Sivan, Grammatical Analysis, 38, 41, 43.

this (even he admits) is slight, existing primarily in the Shibboleth incident in Judg 12:6.⁴⁵ In any case, even he agrees that there is no evidence for this phoneme for most Classical Hebrew dialects.

Cognizance of these phonemes is primarily useful for the student of Hebrew in learning and understanding the vocabulary of other related languages like Aramaic and Ugaritic (as well as Arabic and other Semitic languages). All the same, knowledge of these also helps make sense of the Biblical Hebrew lexicon. For example, knowing that Hebrew /s/ can derive from PS/PNWS /s/, */t/, and */s/ helps to explain how dictionaries can distinguish between otherwise similar words, like ארר/צור "to bind" (related to Arabic *sarra* "to tie, bind" < PS/PNWS **srr*) and "ערר/צור" to attack" (related to Arabic *darra* "to harm, injure" < PS/PNWS **srr*).

Moreover, the fact that the PS/PNWS emphatic interdental, */t/, corresponds to /ṣ/ (= צ) in Hebrew and to /t/ (= ט) in Aramaic helps explain the existence of synonymous pairs of roots in Biblical Hebrew like נצר נער guard" (the expected realization of the PS/PNWS root **ntr* in Hebrew) and נטר "to guard" (the expected realization of the same root in Aramaic). The verb נטר and its associated noun מַטָּרָה from another Canaanite dialect that experienced the same shift of */t/ > /t/ as in Aramaic).⁴⁶ Learning such correspondences can help the student build her vocabulary; this is particularly useful where one of the roots is relatively common (as with גניר).

In addition to explaining the lexicon and assisting in vocabulary learning, knowledge of these correspondences can sometimes assist in comprehending and evaluating various interpretive proposals. As noted above,

^{45.} Rendsburg, "Ancient Hebrew Phonology," 69–70. He assumes that the story is based around the dual realization of the word "stream" as *sibbolet* by the Ephraimites (according to Israelite pronunciation norms) and *tibbolet* by the Gileadites (according to Transjordanian norms, which are etymologically more accurate, the word going back to a PNWS *tbl* root). Rendsburg's explanation is complicated due to the apparent Arabic cognates (*sabal* meaning "flowing rain" and *sublat* "wide spread rain," cited in *HALOT*), which suggest that the Proto-Hebrew root of the word "stream" is *šbl* and the PS/PNWS root is *sbl*. See Joshua Blau, "Weak' Phonetic Change and the Hebrew *sîn*," *HAR* 1 (1977): 109.

^{46.} As Holger Gzella remarks in relation to preexilic biblical material: "One cannot simply attribute an isolated word or form to Aramaic with any degree of certainty based on a single linguistic hallmark, because the true extent of dialect diversity in Iron-Age Syria-Palestine remains unknown" (A *Cultural History of Aramaic: From the Beginnings to the Advent of Islam*, HdO 111 [Leiden: Brill, 2015], 96).

contemporary dictionaries of Biblical Hebrew list the word עָלָד as an Aramaic loanword "enemy," etymologically related to Hebrew עָר "enemy." The word is listed as occurring as עָלֶד (in 1 Sam 28:16) and עָלָיד (Ps 139:20).⁴⁷ In these passages, one can also find other explanations (e.g., עָלָיד may be a misspelling of עָלָיד and עָלָיך may be a misspelling of אָלָיד In part, deciding on the likelihood that these letters are examples of an Aramaic loanword (or an Aramaic-like word) involves being familiar with similar lexical pairs.

Note the corresponding roots in Biblical Hebrew that relate to the following PS/PNWS phonemes:

emphatic interdental (*/ț/)

- נטר "to guard" (the expected realization in Hebrew) versus נטר "to guard, preserve anger" (the expected realization of the same root in Aramaic) (+ מַטָרָה "guard, target")
- *hiphil* "to shadow" (Ezek 31:3) versus טלל piel "to shadow" (Neh 3:15)
- שען "to travel" (Isa 33:20) versus טען "to load" (Gen 45:17)
- קוט "to feel loathing" versus קוט "to feel loathing"

^{47.} See, e.g., BDB.

^{48.} See, e.g., BDB and HALOT.

^{49.} Note also the pair קמץ "to grasp" (Lev 2:2) vs. קמט "to grasp" (Job 16:8), though the etymological link is less clear. In the case of שָׁטֶל "flood" and שָׁצֶר "outpouring" (Isa 54:8), the words might reflect different realizations of a common PS/ PNWS root (e.g., the *shaphel* conjugation of *twp* [= עוד in Hebrew and עוד in Aramaic]; for which see C. J. Labuschagne, "Original Shaph'el Forms in Biblical Hebrew," *OTWSA* 13 [1971]: 51–64, as cited in *HALOT* s.v. "עָּטֶרָ"). In relation to עָּשֶׁעָ, note also the RH verb with the same consonants meaning "to cut, slash," which root with two initial sibilant consonants seems incongruous. Alternatively, BH שָׁטֶר might simply be a mistake for שָׁטֶר since in its one occurrence it appears adjacent to שָׁטֶר "wrath." That two adjacent words might affect each other's pronunciation is suggested by the form of אום מוש יונו אווי הוו אי אַמרשבת בליעל מחשבר (Ezek 43:11; similarly note the *qere* of 2 Sam 3:25: אַמרשבת בליעל יום, slash; also בליעל מחשבר ליס אום אי נוס אי אַרוון אַרימון אַרימון אַרימון אַרימון אַרימון אַרימון וו אַנעל אין אווי אַרימון אַרימון אַרימון אַרימון אַרימון אַרימון אַרימון וו אַנעל אין אַרימון אַרימון אַרימון אַרימון אַרימון אַרימון אַרימון וו אַנעל אין אַרימון אַרימן וו אַמרשבר אַריעל יום אי גמרשבר" (Ezek look like they are etymologically related might not be. The verbs that look like they are etymologically related might not be. The verbs אינט "to lift" and נעל hiphil "to tear, save, rescue" may be from distinct roots.

voiced dental fricative (*/t/)

- שרש "to engrave" (the expected realization in Hebrew) versus הרת "to engrave" (the expected realization in Aramaic; Exod 32:16 and in the DSS)
- פתר "interpretation" (Qoh 8:1 and in the DSS) versus פתר "to interpret" and פתרון "interpretation"⁵⁰
- שנה "to repeat, speak again" versus תנה *piel* "to recount" (Judg 5:11; 11:40)⁵¹

the unvoiced dental fricative $(*/\underline{d}/)$

- זלל "to be foolish, rash" *hiphil* "to treat disrespectfully" (the expected realization in Hebrew) versus דלל "to be insignificant" (the expected realization in Aramaic) (+ דָלָה "weak, poor," דָלָה "weak, poor population")⁵²
- נזר dedicate" versus נדר "to vow"⁵³
- עזר "to help" versus עדר "to help" (1 Chr 12:34)

the emphatic lateral fricative (*/ś/)

- נתץ "to pull down" (the expected realization in Hebrew) versus niphal "to be broken" (the expected realization in Aramaic; Job 4:10)
- רבע "to lie down, stretch out" versus רבע "to lie down"
- רעץ "to destroy" versus רעע "to smash"⁵⁴
- רצה "to be pleased with" versus רעה in nouns like רצה "longing."⁵⁵

^{50.} The etymology of these words is complex. See H. J. Fabry and U. Dahmen, "פשר", *TDOT* 12:152.

^{51.} Note also עָשׁר "to be rich" אָ עָתָרָת וו עָתר (const.; Jer 33:6). In other cases, there is not necessarily any connection between semantically similar words with corresponding consonants, as with שור "to watch, lie in wait" and תור די "to spy out, explore."

^{52.} Conceivably these are etymologically different roots. See the brief discussion of similar roots in Kogan, "Proto-Semitic Phonetics and Phonology," 96–97, with references.

^{53.} See the article by J. Boyd, "The Etymological Relationship between *ndr* and *nzr* Reconsidered," *UF* 17 (1986): 61–75.

^{54.} Note also the possibly related רצץ "to oppress."

^{55.} Note also מחק "to destroy" in Judg 5:26, which matches an early Aramaic orthography where /ś/ was marked by p, and the more common מחץ "to destroy," characteristic of Hebrew. See Holger Gzella, "מחה" *ThWQ* 2:638; Christian Stadel,

Phonemes	
Consonantal	
2. PS/PNWS	
Table 2.2	

	bilabial	labiodental	labiodental (inter)dental	alveolar	palatal	velar	uvular	pharyngeal	glottal
voiceless \Rightarrow		 voiced, for each column 	ach column						
plosive	p b			t d		k g	(b)		^
nasal	ш			u					
trill							R		
affricate				ts dz					
fricative		(f) (v)	ţ d	s [> š/h] (((š)	ĥ	(χ) (b)	, Ý	h
lateral fricative				°,					
approxi- mant					y	M			
lateral approxi- mant									
emphatic			ţ	ț ^t ș ś		ķ			
Note: For th /r/, / ^t s/ for / Huehnergan	Note: For this chart, the usual Semiti /r/, /ts/ for /s/, /dz/ for /z/, and /ţ/ for . Huehnergard, "Afro-Asiatic," 142–43.	usual Semitic , and /ţ/ for /ẓ tic," 142-43.	transliterations /. Letters in pa	s are used, with rentheses are J	the exceptio phonemes or a	ns of / ^t ş/ for w allophones att	hat is often /ș ested in at leas	Note: For this chart, the usual Semitic transliterations are used, with the exceptions of $/t_{s}/$ for what is often $/s/$, $/s/$ for $/d/$ (or $/\delta/$), $/R/$ for $/r/$, $/t_{s}/$ for $/s/$, $/d_{z}/$ for $/z/$, and $/t_{z}/$ for $/z/$. Letters in parentheses are phonemes or allophones attested in at least one stage of Hebrew; see Huehnergard, "Afro-Asiatic," 142–43.	r /ð/), /R/ for Hebrew; see

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It is important to note that the words and roots listed in the preceding section and following sections (I assume) are not examples of scribal errors or misspellings (e.g., due to a scribe's confusion between the graphic similarity of *ayin* and *tsade*).⁵⁶ Related languages attest similar kinds of plurality in their lexicons so it is a fair guess that Hebrew also contained such pairs of words.⁵⁷ Of course, it is entirely conceivable that some rare attestations of words are due to scribal lapse. The working assumption here, however, is that they are not.

The inventory of PS/PNWS consonantal phonemes is presented in the table on page 34. The correspondences of the various early phonemes to Hebrew, Ugaritic, and Aramaic phonemes and letters are presented in the following table.

[&]quot;Aramaic Influences on Biblical Hebrew," *EHLL* 1:162. In addition, note the possible correspondence between געוק "to press" (4 מוּצָק "distress" Isa 8:23) vs. עוק "to press" (Amos 2:13) (4 מוּעָקה "distress" Ps 66:11; עָקָה "pressure" Ps 55:4).

^{56.} For a few examples of scribal errors, see \$10 below, "Variation of Orthography and Pronunciation within Roots and Words."

^{57.} Sometimes a particular root appears more often in one particular dialect or register and the parallel root appears in another dialect or register (e.g., the verb זעק "to cry out" occurs primarily in later books of the Bible, while the parallel root צעק "to cry out" occurs primarily in earlier books of the Bible).

PS/PNWS	Biblical Hebrew ca. 800 BCE	Biblical Hebrew ca. 400 CE	Ugaritic	Old Aramaic ca. 800 BCE
Phoneme →		\leftarrow how it was w	ritten (for polyp	phonous letters)
))	>))
b	b	b	b	b
g	g	g	g	g
d	d	d	d d	d T
d	Z	Z	<u>d</u> /d <u>d</u> /d/z	₫ T
h	h	h	h	h
W	W	W	W	W
^d z	Z	Z	Z	Z
ķ	ķΠ	ķ	ķ	ķΠ
ĥ	ĥΠ	ķ	ĥ	ĥΠ
ţ	ţ	ţ	ţ	ţΰ
у	у	у	у	у
k	k	k	k	k
1	1	1	1	1
m	m	m	m	m
n	n	n	n	n
^t s	S	S	S	S
c	v ک	C	c	v ک
ġ	ġ y	C	ġġ	ģ y

Table 2.3. Correspondences of Phonemes⁵⁸

^{58.} Note the following references: Huehnergard, "Afro-Asiatic," 142–43; Kogan, "Proto-Semitic Phonetics and Phonology," 54–151; Pardee, "Ugaritic," 292; Stuart Creason, "Aramaic," *CEWAL*, 396–97; Frederick Mario Fales, "Old Aramaic," *SLIH*, 566; Holger Gzella, "Imperial Aramaic," *SLIH*, 575–76. In Imperial Aramaic, the interdentals (/d/, /t/, /t/) merged with the dentals (/d/, /t/, /t/); the Aramaic reflex of /s/ (perhaps an "emphatic lateral spirant" [so Fales] or "voiced velar or uvular affricate" [so Gzella]) became /^c/.

р	р	р	р	р
^t ş	ş	ş	ş	ş
ķ	ķ	q	ķ	κ ק
r	r	r	r	r
ś	ś U	s W	š	ś U
Ś	ş	ş	ş	ş? ۲
$s^{[PS]} > \check{s}/h^{[NWS]}$	š U	š U	š	š W
t	t	t	t	t
t	š W	š W	t	<u>t</u> ۳
ţ	ş	ş	z∕ġ z∕ġ	ţυ
				•

In order to remember these unfamiliar PS/PNWS phonemes, one can associate them with the following Hebrew words:

- /d/ as in *daqanu; Hebrew إجرا "beard" versus Aramaic بجرا
- /h/ as in *harranu; Hebrew הָרָן "Harran" versus Akkadian harrānu and Greek LXX to Gen. χαρραν. Note also *hattiyyu; Hebrew החתי "Hittite" versus Ugaritic ht and hty and Akkadian hattû and LXX χεται
- /ġ/ as in *ġazzatu; Hebrew עַזָּה "Gaza" versus Greek γαζα and Arabic ġazzat
- /ś/ as in *kaśdu; Hebrew בַּשְׂרִים "Chaldeans" versus Akkadian kaldu and Greek χαλδαιοι
- /ś/ as in *'arśu; Hebrew אֶרָץ "land" versus Aramaic
- /t/ as in *talmūtu; should be in Hebrew "צַלְמוּת" shadow" but is reanalyzed as צַלְמָוָת "shadow of death" versus Ugaritic *zlmt* and *glmt*
- /t/ as in *talgu; Hebrew שֶׁלֶג "snow" versus Aramaic הִלַג

2.6. Proto-Semitic/Proto-Northwest Semitic /w/

At some early stage in the history of Canaanite, what was /w/ in PS and PNWS shifted to /y/ at the beginning and end of roots. So, what was **watiba* "to dwell" became **yašaba* and then **yāšab* (> יָשָׁרָ); similarly **yišlawūna* became **yašqu*" "they will be at ease" (Job 12:6), even though the /w/ is still attested in the *qåtal* form שָׁלָוּהַזי "I am at rest" (Job 3:26). Medial

/w/, on the other hand, became */ū/ (e.g., קום, "to arise").⁵⁹ The exceptions to this shift are relatively rare (e.g., יָלָד child" vs. יָלָל "child, boy"; and עָנָו מוּן מוּנוֹר מיי מוּנוֹר מיי מוּן מוּנוֹר מיי מוּנוֹר מייי מוּנוֹר מיי מוּנוּ מוּנוֹר מיי מוּנוּ מוּ

2.7. Correspondences between Weak Roots

In the lexicon of Biblical Hebrew, it is easy to see that certain combinations of consonants have the same or similar meanings. In fact, it is often the case that three classes of weak roots (i.e., II-*vav/yod*, III-*vav/yod*, and geminate roots), have semantically similar verbs.⁶⁰ In most cases, the verbs seem to be byforms of each other.⁶¹ Note, for example, the following correspondences between root-types:

II-vav/yod and III-vav/yod roots

- בוז and בזה to despise²⁶²
- to attack" and גרה piel "to stir up strife"⁶³

II-vav/yod and geminate roots

- and משׁשׁ "to feel, grope"⁶⁴
- צור "to bind" and צרר "to confine, besiege"
- צור and צור "to attack"
- רמם "to rise" and רמם "to exalt oneself"⁶⁵

61. One can sometimes identify roots that have developed out of other roots, as with נפוח "to breathe, blow" (Central Semitic *pwh*), which developed apparently from a reanalysis of the verb נפח "to breathe, blow" (Common Semitic *nph*) as a *niphal* or N-stem conjugation. See John Huehnergard and Saul Olyan, "The Etymology of Hebrew and Aramaic *ykl* 'To Be Able;" *JSS* 58 (2013): 17.

62. Contrast בזו "to plunder" and the related noun בזו "plunder."

63. Contrast גרר to sojourn" and גור to fear" as well as גרע "to drag away," *niphal* "to chew cud." Note also שוט (Ps 40:5) and שטה "to turn aside" and the respective roots assumed for שוא שוט (ruin" (< šwy) and שָׁאָיָה "ruin" (< š'y).

64. Contrast משה "to draw out (from water)."

65. Contrast רמה "to throw, shoot" and רמה *piel* "to betray." Note also דוך "to crush" (Num 11:8) and דכך as evidenced in דַרָּ "crushed" as well as דכץ *piel* "to crush"; מכך to plaster" and טתוח "to be smeared" (Isa 44:18); מוך "to be poor" and מכך שׁר מכך be low"; מוך "to fence in" and שׁר לי נבא שׁכך "to cover" (Exod 33:22); and perhaps also שׁר שׁר

^{59.} In the same way, medial /y/ became */ī/ (e.g., שָׁים "to set").

^{60.} Many of the examples below are drawn from Jerzy Kuryłowicz, *Studies in Semitic Grammar and Metrics*, Prace Językoznawcze 67 (Wrocław: Zakład Narodowy imienia Ossolińskich, 1973), 10–12.

III-vav/yod and geminate roots

- דמה "to cease," *niphal* "to be destroyed" and דמה "to be silent, dumb," *niphal* "to be destroyed"⁶⁶
- זכה "to be clear" and זכך "to be clean, pure"
- חרה "to be hot, angry" and חרה "to burn"⁶⁷
- ידה and ידה "to throw"
- *hiphil* "to cause to melt" and מסה niphal "to melt"
- *piel* "to uncover" and ערה "to strip"⁶⁸
- *niphal* and קלל niphal "to be contemptible"
- קצק and קצה "to cut off"⁶⁹
- and רבה "to be numerous"
- רדה "to rule" and רדד "to subjugate, conquer"
- שגה and שגה "to go astray."⁷⁰

There are also cases where these weak root-classes overlap with I-*vav/yod* and I-*nun* roots. Note also the correspondences between I-*vav/yod* roots and I-*nun* roots.⁷¹

I-vav/yod and II-vav/yod roots

יגר and גור to be afraid"⁷²

- 67. Contrast הְוַר "to be white."
- 68. Contrast עור "to awake."

69. Note also the frequently occurring nouns: קַצָּה/קַצֶּה/קַצֶּה/קַצֶּה/קַצֶּה/קַצֶּה/קַצֶּה/ (all from קַצָּר) and "end" (from קנץ). Contrast קוץ "to loathe," קיק "to awake" (intrans.), and קיק hiphil "to awake" (trans.).

70. Note also גוו "to cut off" (Ps 71:6) (+ גָּוִית "hewn") and גוו "to shear" (+ גַּוֹ (shearing"); כלה "to cease" and כלל "to complete, perfect" (+ כלה "all"); מצה "to slurp" and מצץ "to lap" (Isa 66:11).

71. The one correspondence between I-*vav/yod* and III-*vav/yod* roots may be due to reanalysis: הגה *hophal* (2 Sam 20:13) "to be expelled" and הגה "to remove." Examples of correspondences between I-*vav/yod* and geminate roots are also relatively rare: יחם *piel* "to conceive" (+ הַמָּה "heat") and המש "to be hot" (הַמָּה "heat, sun"); *יחי niphal* "to be insolent" (perhaps Isa 33:19) and יעז "to be strong"; היחי *hiphil* "cause to touch" (perhaps Judg 16:26) and משׁשׁ/מושׁ "to feel, grope"; רַקק hop 16:26) and "to spit."

72. Contrast גור "to sojourn" and גור "to attack" as well as גרר "to drag away," *niphal* "to chew cud."

[&]quot;to set" (though the latter might really be a mirage, שָׁתוּ of Pss 49:15 and 73:9 being an alternative form for שָׁתוּ, influenced perhaps by the similarly spelled secondand first-person forms שָׁתּי and יָשָׁתוּ).

^{66.} Note also דום as suggested by דומה "silence."

- יטב and יטב "to be good"
- יַעָר/עַיֵר "to be weary" (+ יָעָר weary")
- יקץ "to awake" (intrans.) and קיץ hiphil "to awake" (trans.)⁷³

I-nun and and II-vav/yod roots

- נסך "to pour" and סוך to anoint oneself"⁷⁴
- and נפח "to breathe, blow" ⁷⁵
- נפץ and נפץ "to be scattered"⁷⁶
- עוץ and צוץ "to shine, blossom"⁷⁷

I-nun and III-vav/yod roots

- נבל "to languish, fall, be worn out" and בלה "to wither, crumble"
- *niphal* "to be scattered," *hiphil* "to expel" and נדח "to drive off" (+ החה *niphal* "to be expelled")

I-*nun* and geminate roots

- *niphal* "to be scattered," *hiphil* "to expel" and *niphal* "to be expelled"⁷⁸
- עסך "to weave" and "כך" to weave"⁷⁹
- עקב "to bore through, slander" and קבב "to curse"⁸⁰

^{73.} Contrast קצין and קצין "to cut off," and קוף "to loathe." Note also יגור *hiphil* "to exchange" (perhaps Jer 2:11) and מור "to change"; יגוק "to suck? (perhaps Judg 16:26) and מור "to feel, grope"; יגוק "to suck? and יגוק "to suck? (Exod 2:9); יניק "to advise"; יצת "to kindle" and יצון *hiphil* "set on fire" (Isa 27:4); יצון "to trap with a snare" and יון ילו דיא "to trap with a snare" (Isa 29:21) (+ יון *hiphil* "to be ensnared"). In addition, note that the verb יון meaning "to make ashamed" (e.g., הַבִּישׁוּת) and the other formed as though from יבש meaning "to be ashamed" (e.g., הַבַּישׁוּת).

^{74.} Contrast נסך/סכך "to weave" and סכך "to cover."

^{75.} Note also יפח (Jer 4:31).

^{76.} Note also פצק *poel* "to shatter" and contrast פצה to open (the mouth)."

^{77.} Note also נקר "to gouge (the eyes)" and קור "to bore, dig" (perhaps 2 Kgs 19:20, Isa 37:25); נקש *niphal* "to be ensnared" and קוש "to lay a snare" (Isa 29:21) (+ "יקש "to trap with a snare").

^{78.} Note also דחה "to drive off."

^{79.} Contrast סכך "to pour" and סוך to anoint oneself," סכך "to cover."

^{80.} Note also the root יקב presumed in the word יֶקֶב "wine vat."

I-vav/yod roots and I-nun roots

- נצב hithpael and נצב "to take a stand"
- יקע and נקע "to turn away in disgust"
- יקש "to trap with a snare" and נקש niphal "to be ensared."81

Note especially that geminate roots often correspond to II-*vav/yod* and III-*vav/yod* roots, less often with the others. Also, I-*vav/yod* and I-*nun* roots correspond most often with II-*vav/yod* roots.

Another common variation between synonymous roots is evidenced in the pairs of III-*aleph* and III-*vav/yod* roots. In these cases, often a *lamed* or *resh* is the second root consonant. Note the pairs, listed in alphabetical order: ירא ירא ירא "to shoot"; ליס versus סלה "to weigh"; ליס שלה "to be wonderful" versus מלא "to be separate"; ירא versus מלה "to occur"; ליס versus הלא "to hang."⁸² It may appear that the primary difference between the members of these pairs is only a *mater*, that is, an *aleph* used as a *mater* to mark a preceding */ā/ as in Aramaic versus a *he mater* (e.g., גַקָרָה)" "has been met" Exod 5:3 vs. נְקָרָה "thas been met" Exod 3:18). Given the sparse attestation of some roots, this may be correct in certain instances. However, most ancient readers conceived of the roots (and associated verbs) as independent entitites, as revealed in certain unambiguous verbal forms like מו (Job 4:14), which is unambiguously III-*vav/yod*, and "ני thefell me" (Job 4:14), which is unambiguously III-*aleph*.

Some examples of correspondences without a *lamed* or *resh* include: מושל and דכה and דכה both *piel* "to crush"; אבה מחבה חבה *niphal* "to hide oneself"; *ו*ברא *niphal* "be wiped out" (+ נְשָׁא "stricken" Isa 16:7) and נכא ito strike," *niphal* "to be struck"; לַשָּׁה and נְשָׁה to lend on interest"; אנה מו שׁגה to grow, increase."⁸³

A further set of correspondences is found between I-*aleph* and I-*vav/* yod roots. The clearest examples are relatively few: אֶחָד "one" and יחד "to be united" (+ יחד "only one," מָחַד "together"); אלה "to wail" (Joel 1:8; +

^{81.} Note also קוֹש "to lay a snare" (Isa 29:21). Note as well the following corresponding roots: יאה (Jer 10:7) and גאה "to be pretty, fitting"; יפח (Jer 4:31) and גנאה 'to breathe."

^{82.} Not all such pairs seem synonymous or related, as with כלא "to restrain" and כלה "to finish." Another superficially similar example might be כלה "to fear," though the latter is also listed by BDB under the root רהה. It occurs once, as הִרְהוּ (Isa 44:8).

^{83.} Note also קיה and קיה "to vomit."

"to go straight" and ישׁר "to go straight" and ישׁר "to go straight." In addition, note the correspondences in sense and form between to gather" (אָסָר "to gather" Ps 104:29) and יסף "to add," hiphil "to add, do again" (הַסָר "do [not] add" Deut 13:1).⁸⁴ Finally, note how some I-aleph words appear to be I-vav/yod, like המֹסָר "bond."

It should be quickly added, of course, that not all of the pairs of verbs listed above are necessarily related to each other etymologically (e.g., בלה/נבל). It will not be surprising that such historically unrelated pairs are often not exact synonyms of each other. However, even verb pairs that do seem to be related etymologically do not always express the exact same sense (e.g., הרה/חרר).

Cognizance of the above correspondences is useful to intermediate students in several ways. First, it is helpful to memorize certain verbs together, as with נצב and נצב described above, since they can appear together and form one paradigm.⁸⁷ Second, when sight-reading, one can

86. Note also גור is used for the *qåṭal* but גור for the *yiqṭol* and imperative. The roots מו דחה and דחח in the *niphal* appear only in the *yiqṭol* (and perhaps in the participle), while the root ובדח in the *niphal* appears only in the *qåṭal* and participle.

87. Notice that most vocabulary aids used by students to memorize Biblical Hebrew words list the verbs separately. Larry A. Mitchel (A Student's Vocabulary for Biblical Hebrew and Aramaic [Grand Rapids: Zondervan, 1984]) lists נעב on p. 16 but יעב on p. 23 without cross-reference; George M. Landes (Building Your Biblical Hebrew Vocabulary: Learning Words by Frequency and Cognate, RBS 41 [Atlanta: Society of Biblical Literature, 2001]) lists יעב on p. 73 but יעב on p. 84 without cross-reference; Miles V. Van Pelt and Gary D. Pratico (The Vocabulary Guide to Biblical Hebrew

^{84.} In addition, note אסר "to tie, bind (as prisoner)" and יסר "to discipline."

^{85.} Although it is conceivable that the *niphal* forms like נְצָר should really be derived from נְצְרָה (cf. יצת from נְצְרָה), note the cognate evidence from other languages for נצר as well as the BH nouns/adjectives like נָצָר "pillar, overseer" that attest to this root. Similarly, יקי supplies *qal* forms and קיץ *hiphil* forms.

sometimes make an educated guess about the meaning of a word based on knowledge of another word or root. For example, when one encounters unfamiliar verbal forms like וְהַנְיֵקְהוּ (Exod 2:9) in the context of "nursing" (and nurse it!" Exod 2:9), one can make an educated guess that the unfamiliar verb (i.e., נִיק or נִיק or solution by form of , with the same sense "she nursed it." It must be kept in mind, of course, that not all weak roots are related to each other. Although בזה both mean "to despise," the geminate root בזה means something different, "to plunder."

In addition, the correspondences between different types of weak roots listed above are also reflective of broader similarities between the same root classes, especially in the inflection of the verbal paradigms. For example, although there are relatively few semantic correspondences between I-*vav*/*yod* and I-*nun* roots, it is not uncommon for *yiqtol* forms from I-*vav*/*yod* roots to exhibit assimilation of the first root consonant such that they look as though they derive from I-*nun* roots. Thus, we find אָצֶיך "I will pour" (Isa 44:3) from דָיָצָי; also יַנָּיצָר "he formed" (Gen 2:19) from weak roots helps a reader identify and quickly look up relevant verbs in the dictionary. These correspondences are addressed with greater detail in the chapters on morphology.

2.8. Correspondences between Roots with Similarly Articulated Consonants

In the above sections, I have listed pairs of words and roots that are not only semantically similar, but are also (for the most part) etymologically related, derived presumably from a single PS/PNWS root or word or from a biconsonantal "core."⁸⁹ In the following section, I also list semantically similar words and roots. These too are often related etymologically, but sometimes are not. Occasionally, an easy historical explanation is offered (as for the pair שָׁמִיר/וְמֵיר/וְמֵיר where the former seems influenced from Aramaic). However, the historical links between many roots and words

[[]Grand Rapids: Zondervan, 2003]) list נצב on pp. 26, 116, 190, 208, 220 but יצב on pp. 34, 183, 215, 224 without cross-reference.

^{88.} More regularly, the form of 3fp/2fp III-*vav/yod* roots (e.g., תִּרְאֶׁינָה "they will see" Isa 17:7) have informed the paradigms of II-*vav/yod* (הָעוּפֶֿינָה "they will fly" Isa 60:8) and III-*aleph* roots (הִמְעָאון "they find" Deut 31:21).

^{89.} For the term, "core," see Joüon §84.

(if they exist) are often rather complex and I have avoided explaining how each word or root in a pair might be related. In essence, it is most important for the intermediate student to recognize the possible interconnections between words/roots in order to facilitate the acquisition and retention of vocabulary and in order to better evaluate proposed translations and interpretations. Let me stress again that the listing of words together does not necessarily imply an etymological or historical link between them.

One of the most frequent correspondences between consonants is that between sibilants, especially when the sibilant is followed by resh or a guttural. Note the roots with correspondences between *zayin* and *tsade*: יזעק "to cry out" and צעק "to cry out"; זעיר "little" and זעק "little"; זרב "little" זעיר "little" זעיר אניר אניר pual "be scorched" (Job 6:17) and צרב niphal "be scorched" (Ezek 21:3) (+ צרֹבת "burning" Prov 16:27 and צרֹבת "scar, inflammation" Lev 13:23, 28). Correspondences between *tsade* and *sin* are somewhat fewer: צחק "to laugh" and שׂחק "to laugh" (as with the different realizations of the name "Isaac" יצחק vs. רמס); as are those between *tsade* and *samek*: ישחק "to act violently toward" and המץ "be ruthless" (Ps 71:4); נוץ (Lam 4:15) and to be dispersed," niphal دוס "to be dispersed," niphal "to scatter," niphal "to be scattered" (Nah 3:18). There are a few sets of roots that exhibit correspondences between several different sibilants: עלץ, עלס ,עלז all mean "to rejoice"; שפן, צפן, ספן (Deut 33:19) all mean "to hide;"91 נתס (Job 30:13), נתש all mean "to tear up" or "tear down."92

In some of these cases, a straightforward historical explanation may be possible (e.g., borrowing from Aramaic in the case of וְשָׁיך), though in other cases such explanations become rather complex.⁹³ In rare cases, the

^{90.} The parsing reflects that of *HALOT*. BDB parse גָצוּ of Lam 4:15 not as from נצה but from גצה "to fly (?)." This makes sense of the accent on גנוץ, which is not penultimate as we would expect if it were from נוץ. *HALOT* cites *HGhS* 398e, which lists other examples of irregular accenting for the sake of "rhythm."

^{91.} See Steiner, Fricative-Laterals, 118 nn. 3, 6.

^{92.} Note also the etymologically related נתע *niphal* "to be broken." Correspondences between *samek* and *sin*, if they occurred, would be obscured by the merger of originally distinct /s/ and /ś/ and their subsequent confusion in spelling (see above).

^{93.} For Aramaic borrowing, see Max Wagner, *Die lexikalischen und grammatikalischen Aramaismen im alttestamentlichen Hebräisch*, BZAW 96 (Berlin: Töpelmann, 1966), 49–50. Note Steiner's description of how שחק and שחק are related to each other, and perhaps also to לעג "to mock" (*Fricative-Laterals*, 111–20, esp. 112) and cf. Blau, *Polyphony*, 4. Similar senses sometimes lead speakers to select similar-sounding

meaning of the two words is only remotely related and any connection between them seems likely to be purely accidental: שׁרף "to smelt" and שׁרף "to burn."⁹⁴ In still other cases, the similarity in sounds between two different words might have encouraged their use in similar contexts. The word "to gird" is used naturally enough with the etymologically related אזר "to gird" in 2 Kgs 1:8, though in Job 12:18 the noun אזר is instead the object of the verb אסר "to bind."

Sometimes one observes parallels between roots with an emphatic and corresponding nonemphatic consonant. Note, for example, the many correspondences between tet and tav: חתף and חתף (Job 9:12) "to catch, seize"; טעה (Ezek 13:10) and תעה "to wander, err"; טפל "to smear" and in הַפָּל "whitewash"; לְשָׁט in הָשָׁט "bow, archery" (Ps 60:6) and in קשת "bow."⁹⁵ Note the correspondences between *kaph* and *qoph*: לשת rel "to crush" and דקק piel "to crush" and the associated nouns/ adjectives: דָּק "crushed" (of dust) (Ps 90:3); דָד "crushed"; דָּק "thin, small, fine" (of dust in Isa 29:5).96 Borrowing from Aramaic may explain some of these pairs of words (e.g., לְשָׁת and לֹשָׁט). One can also find pairs of what appear to be etymologically unrelated words that exhibit vaguely similar meanings: זכן "to be pure" (+ דָן "pure" and זכן "glass" Job 28 :17) and to refine"; בהה "to be dim" (said of eyes) (+ בָהָה "dim") and ההה "to be blunt" (said of teeth); מכֹרַה "origin" and מָקוֹר source, spring"; תכן piel "to slaughter" and שחת piel "to arrange"; שחט "to slaughter" and piel "to annihilate, destroy."

Other correspondences include those of the gutturals. Correspondences involving *aleph* and *ayin* include גאל *niphal* "to be defiled" and געל "to loathe," *niphal* "to be defiled"; פָּתָאָם "suddenly" and פָּתָאָם "suddenly" and מָאָר hithpael (Gen 24:21) and שׁאָה piel "to make repulsive"

roots to express these senses, and, conversely, similarly formed roots sometimes lead speakers to assume a common sense shared between them (Blau, *Phonology and Morphology*, 52–53).

^{94.} The semantic correspondences between other roots and words is even more remote: זָהָר hophal "to gleam," said of bronze (Ezra 8:27), and גָהב "gold"; also זהר hiphil "to shine" (+ הַהַר 'shining") and צָהְרַיָם "noon."

^{95.} Note also שכת *hiphil* "to keep silent" (Deut 27:9) and שכת "to be quiet," *hiphil* "to keep quiet," which also shows the variation in sibilants.

^{96.} Note also דוך "to pound" (Num 11:8) and the related noun מְּלְכָה "mortar" (Num 11:8). Note also the semantically and phonetically similar רָק "thin" (said of cows) in Gen 41:19, 20, 27 (vs. דָק in Gen 41:3, 4). The word רַק is phonetically similar to another word used in relation to cattle: רָך "tender" (said of a calf in Gen 18:7).

(Amos 6:8) and תעב "to loathe."⁹⁷ Those involving *aleph* and *he* include אדר *niphal*: "to be glorious" and הדר *niphal* " be honored"; אָוָה "desire" and להה לאה (Gen 47:13) "to languish."⁹⁸

Sometimes roots with bilabial consonants evidence correspondences, as with bet and pe: בוֹר piel "to scatter" and פור "to scatter"; נשׁך "to subdue" and נשׁר hiphil "to subdue" (Lam 3:16); נשׁר to blow."⁹⁹ The consonants mem and pe correspond in the pair עפש niphal "to blow."⁹⁹ The consonants mem and pe correspond in the pair עפש niphal "to escape," piel "to deliver" and שלט "to escape," piel "to deliver." Note also the apparent correspondences between bet and vav in גַר "the back of a person" (Ps 129:3) and גווגו "the back of a person"; in באב "to be faint" (+ קריי faint" Job 41:14) and דוה "to be sick" (Lev 12:2; + דָרָ הָיָר faint"; יָרָי "illness"); and in תַאָרָה "longing" (Ps 119:20; also "to desire" Ps 119:40, 174) and תַאַרָה "longing"; the correspondences between pe and vav in גופָה/גַר body" and "kody."¹⁰⁰

In other cases there are semantically similar words that differ in their velar consonants, as in סגר "to shut up," *niphal* "be shut up" and סכר *niphal* "be shut up."¹⁰¹ Rarely they differ in their sonorants like *mem* and

^{97.} Note also the correspondences between nonetymologically related אָפָר "ashes" and ירא "to fear" and ירע "to quiver."

^{98.} Other correspondences between roots seem accidental: נְחֵרָה/נַֹחֵר "snorting" vs. עובר "to growl"; שוּהָה "pit" and שוֹאָה "destruction."

^{100.} Note also דוב *hiphil* "to make faint" (Lev 26:16; דוב "atrophy" Job 33:19). Note the use of גופָה in 1 Sam 31:12 and גופָה in the parallel account in 1 Chr 10:12. Another root pair might be עבת *piel* "to twist, pervert" (Mic 7:3; + עבת "rope") and *yiel* "to twist, pervert" (which verb derives ultimately from עות "to do wrong," *piel* "to twist").

^{101.} Note also נְקָבְּעָת "cup, bowl" and קַבְּעָת "cup"; נגף "to strike" and נגף "official, attendant" and פְּלָגָה/פְּלַגָה יסבן "official"; פָּלָגָה district" and פְּלָגָה (in 2 Chr 35:5) "subdivision (of family/tribe)."

nun, שטם "to have animosity toward" and שטם "to act as adversary"; and lamed and resh, אָלָמָן "palace" (Isa 13:22) and אָרָמוֹן "palace."¹⁰²

Some words experience metathesis of root consonants. This results in two synonymous words with the same root consonants, but in different sequences: בַּלְהָה "dismay, terror" and the metathesized version בַּלְהָה "terror"; זְעָוָה "terror" and the metathesized version זְעָוָה "terror"; נבשה/בבשה/בבשה/בבשה/בבשה (Lev 5:6) "lamb"; נאקה "to groan" (+ נאקה "groan") and the metathesized version אנק "to groan" (+ אָנָקָה "groan"); עלג to mock, stammer" and עלג "stammerer" (Isa 32:4); פרץ and פרץ, both meaning in the gal "to urge someone"; שׁלמה "garment" and the metathesized form שׁלמה "garment." In other cases, the apparent metathesis may really reflect two individual roots, as with הפר (Qoh 10:6); מָכֵל stupidity" and הפר "folly" (Qoh 10:6); הפר "to be ashamed" and חרף "to reproach" (+ הרפה "rebuke, shame"); and the pair "interpretation." Sometimes the etymology is unclear: ערף means "to drip" (+ עריף and ערפל cloud") as does רעף. The correspondence of עיף and עיף "to be weary" may be due to the existence of byforms between root-classes, as suggested above.

Recognition of the preceding relationships is important not only in helping to build vocabulary (and to distinguish similar sounding but distinct words), as mentioned above in chapter 1, but also in helping to comprehend various proposed emendations to the biblical text, even if a definitive evaluation of these interpretations is difficult to make. For example, in 1 Sam 21:14, we read the verb form וְּיָהָן: often this is understood as the *piel* form of הַוֹה (a byform of הַאָּה) and is translated "he marked" (see *HALOT*). On the other hand, the LXX rendering "he pounded" (ἐτμπάνιζεν) has suggested the reconstruction יוֹלָיָן* "he knocked" (from other evidence, its likelihood increases in the context of etymologically unrelated word pairs that seem to show a fluctuation between *vav* and other bilabial consonants. Similarly, one may better weigh different possi-

^{102.} Note also בחן "to test" and בחר usually "to choose" but "to test" in Isa 48:10 בחן corresponds to בחן in 1QIsa^a). See Wagner, Aramaismen, 33–34; E. Y. Kutscher, The Language and Linguistic Background of the Complete Isaiah Scroll, STDJ 6 (Leiden: Brill, 1974), 223. For more possible examples, see Aloysius Fitzgerald, "The Interchange of L, N, and R in Biblical Hebrew," JBL 97 (1978): 481–88. See also David Testen, "The Significance of Aramaic r < *n," JNES 44 (1985): 143–46. Perhaps also the pair Card Testen" (Deut 32:34) and "Card Testen," to gather" (Deut 32:34) and "Card Testen" (Card Testen) "Card Testen" (Deut 32:34) and "Card Testen" (Card Testen)" (Leut 32:34) and "Card Testen" (Card Testen)" (Card Testen) "Card Testen" "Card Testen" (Card Testen) "Card Testen" "Card Testen"

bilities, for example, whether *HALOT* may be correct in suggesting a connection between אבק "they swirled" (Isa 9:17) and the *niphal* verb אבק "to wrestle" (Gen 35:24–25), or whether BDB may be correct in construing the same verb (i.e., אבך) as a byform of הפך, akin to the *hithpael* of this verb in Judg 7:13, where it seems to describe a rolling motion.¹⁰³

2.9. Correspondences between Etymologically Unrelated Roots

In the examples that follow, there is often no specific etymological connection between the words, even when the meanings are very close. In many cases, the connection between words is likely due to "lexical contamination."¹⁰⁴ This is a phenomenon in which roots and words "similar in sound and form ... tend to attract each other," even though the roots/words are otherwise unrelated.¹⁰⁵ It should also be recognized that the identification of common meanings is a subjective one and that another reader may organize the words in different ways.

^{103.} It might be noted that further complicating the evaluation is the fact that in the DSS and in later Hebrew we find evidence for the root אפך as a byform of הפך (see Reymond, *Qumran Hebrew*, 189).

^{104.} See Blau "Śin," 68. The term is from Y. Malkiel, "Weak Phonetic Change, Spontaneous Sound Shift, Lexical Contamination," *Lingua* 11 (1962): 263–75. Blau also refers to it as "blending of synonymous or semantically related roots" (*Phonology and Morphology*, 52). Other explanations are also available; see Florin-Mihai Dat, "Métathèse et homonymie en hébreu biblique," *Suvremena lingvistika* 67 (2009): 1–21.

^{105.} See Blau "Śîn," 68.

^{106.} See ibid., 68 n. 3 and Kuryłowicz, *Studies*, 6. This list does not even exhaust the set of words having to do with spreading, dividing, and tearing that begin with *pe* and a liquid consonant: *קופן פלח piel* "to pierce, cut in pieces"; *ibid niphal* "to be divided," *piel* "to split." In addition to these, note the semantically similar words that begin with *pe hiphil* "to wipe out" (Deut 32:26); פוש "to disperse"; פוש "to scatter," *niphal* "to be scattered"; *משה* "to spread."

^{107.} Although the root צנע occurs only once in the Hebrew Bible, it occurs four times in Ben Sira and over ten times in the DSS.

first and last consonants correspond: פּתח "to open (the eyes)" and מּתח "to open."¹⁰⁸ In still other cases, the relevant consonants appear in different places and sequences, as with the words with *qoph* and *dalet* that describe burning: יקד "to burn"; יקד "to burn"; ידלק "to set fire to." In some cases, it is partially due to nominal morphology that the words look and sound similar, as with فַתַת and שַׁתַת "pit"; I have avoided listing most examples of this sort.

Note the following clusters of roots and words that seem semantically and phonetically close, only some of which are etymologically related.¹⁰⁹

- aleph-nun: mourning, lamenting, groaning: אנה "to mourn" (+ אַנָּהָ אָנִיָה אָנִיָה "mourning"); אַגָּוָחָה "imourning"); אַגָּוָחָה אנח "ito groan" (+ אנח"); אַנָּחָה אוון hithpoel "to murmur, complain"; אנק "to groan" (+ אנק "groan"); גאַקה "to groan" (+ אַנַקה)
- gimel-bet: convex, concave things: אַרְגָב "heap"; גַב "back of a person, brow"; גָבָיַע "pit"; גָבה "cistern"; גבה "to be high"; גָביע, bowl"; גָביע "high point"¹¹¹
- gimel-zayin: cutting: גזה "to cut"; גזה "to shear"; גזר "to cut, divide," niphal "be destroyed"¹¹²
- *he:* exclamations: הָאָ "lo"; הָאָה (joy); הָה "ah, alas"; הוֹ "ah, alas"; הוֹ "ah, alas"; הוֹ "ah, alas"
- he-mem: being tumultuous and loud: הום "to confuse"; המה "to be upset, groan"; נָהָמָה "to disturb"; נהם "to growl" (+ המם "growl")¹¹³

^{108.} Cf. also פצה "to open (the mouth)."

^{109.} Some of the examples are drawn from Dat, "Métathèse et homonymie," 12–16. There is overlap in certain rare cases between sets of words (e.g., נהם appears in the set containing *he-mem* and *nun-he*).

^{110.} Note also perhaps נוח "to sigh" (Hab 3:16). Furthermore, note the parallels to the roots listed below containing the letters *nun-he* that indicate groaning, lamenting, and other inarticulate sounds (נהק ,נהם ,נהק ,נהם ,נהק ,נהם , המם , המם , המם , המם , המם).

^{111.} Note also 13/13 "the back of a person." English has a similar set of words with overlapping senses and sounds: gibbous, convex.

^{112.} Note also the possible case of the byform גרז (spec. גָּוְבְׁזְתִּי I am cut off " Ps 31:23), unless this is a simple scribal slip.

^{113.} Note the parallels to the roots listed above containing the letters *aleph-nun* and those below containing *nun-he*, all of which indicate groaning, lamenting, and other inarticulate sounds: נהק, אנק, אנק, אנק, אנק.

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- *zayin-resh*: scattering: בזר "to scatter," and דרע "to scatter," and דרע "to sow, scatter seed," פזר "to scatter, sprinkle," פזר "to scatter"
- *khet-bet:* binding: הבק "cord"; הבק *piel* "to clasp, embrace"; הבר "to unite, be joined"; הבש "to bind up, saddle"¹¹⁴
- *khet-tsade:* cutting, dividing: או העב "to divide, cleave"; העה "to divide"; או העה "to divide"; העץ "to divide"; העץ "to divide"; או העץ הרץ (to cut, sharpen")
- *lamed-lamed:* being insignificant, mocking: דלל "to be insignificant," to be foolish, rash" *hiphil* "to treat disrespectfully"; ללל "to be insignificant," *piel* "to curse"; *hiphil* "to mock"; *hiphil* "to mock"
- *lamed-ayin:* mocking, stammering: לעב *hiphil* "to mock" (2 Chr 36:16); לעג "to mock, stammer"; לעז "to speak in an incomprehensible manner"; עלגע "to talk wildly"; עלגע "stammerer" (Isa 32:4)¹¹⁶
- *mem-khet*: destroying: מחה "to wipe out"; מחץ "to wound severely"; מחק "to annihilate"¹¹⁷
- *nun-dalet*: expelling, putting to flight: נדד "to flee," *hiphil* "to put to flight"; נדה *piel* "to drive away, postpone"; *וברח "niphal* "to be scattered," *hiphil* "to expel"; נדף "to scatter, destroy"¹¹⁸
- *nun-he*: groaning, lamenting, and other inarticulate (nonhuman) sounds: גָהְיָה, גָבְהֹי, גָרָי "to wail, lament"; נהה "to lament" (גָהָיָה, גָרָי "lamentation"); גָהַקָּהָר (to growl" (+ הָהָמָה "to bray"); גָה לו bray");

^{114.} The letter *khet* in these words likely represents /ḥ/ (based especially on the Ugaritic cognates), but for הבר חבר there is limited contradictory evidence from Arabic and Akkadian. In relation to הבק, note דבק "to cling, keep close."

^{115.} The cognate evidence for *khet* in these words is often contradictory. Nevertheless, it seems the *khet* in חצר represents /h/, though the *khet* in חצץ and חצץ represents /h/ (see Ges¹⁸). Note the parallels to roots with the letters *qoph-tsade* listed below that denote cutting: קצע, קצע, קצע, קצע, ארש פון.

^{116.} Arabic cognates (listed in HALOT) suggest /^c/ for ayin in לעג, לעב and /ġ/ for ayin in לעג, לעב

^{117.} Note also מחא "to clap hands." It is often assumed that most, if not all, of these roots are related to each other from the earlier root **mhś* (see Gzella, "מחה", 2:638).

^{118.} In relation to גדח הנדח, note הנדח "to drive off"; החה *niphal* "to be expelled" (all with /ḥ/), as well as נסח "to tear away," *niphal* "to be forcibly removed" (with /ḥ/). In relation to הדף note also הדף to push away."

^{119.} Note also הגה "to growl, mutter" and the following words containing a *khet*: נבח "to bark" (Isa 56:10); נְחֵרָה/(Job 39:20) נָחֲרָה (Jer 8:16) "snorting." Note the parallels to the roots listed above containing the sequence *aleph-nun* that indicate mourning,

- *nun-vav*: shaking, waving, wandering: נוד "to sway, shake (the head), be homeless"; נוט "to tremble" (Ps 99:1); נוט "to tremble, wander without home," *hiphil* "to shake (the head)"; נוס "to move back and forth"¹²⁰
- *nun-qoph:* boring, digging, cutting: נָקִיק "cleft"; נָקיק "cleft"; נָקיק "to cut, tear"; נקר "to gouge out (eyes)"¹²¹
- *nun-tav*: tearing, breaking: נתח *piel* "to cut up" (+ י piece of meat"); מושל "to tear"; נתט *niphal* "to be broken" (Job 4:10); נתץ (Job 4:10); נתץ "to pull, break down"; נתק "to pull down, tear"; נתש "to pluck up, root out"¹²²
- samek-khet: removing: נסח "to tear down" niphal "be removed";
 "to drag away"; סחב "to sweep away"
- *pe-resh:* spreading, dividing, tearing: פרד "to spread," *hiphil* "to separate"; פרק "to tear (a garment)"; פרס "to break (bread)"; פרק "to break down, breach (a wall), spread out"; פרק "to tear apart"; *hiphil* "to break (a covenant)"; פרש "to spread out (a garment, scroll)"
- *pe-tsade*: smashing, destroying: נפץ "to smash"; נפץ *piel* "to smash"
 (Mi 3:3); פצט "to split (the earth)" (Ps 60:4); פַצט "to crush" (פָּצַע
 + "wound"); *poel* "to smash"¹²³
- *qoph-dalet*: burning: יקד "to burn"; יקד "to burn"; קדח "to set fire to"
- qoph-tsade: cutting, extremity: קצם "to cut (wood), shear (sheep)"
 (+ אָדָאָה (days)" (also קצה (days)" (also קצָה קַצָּה (Lev 14:41);
 קצר (to cut off" (+ קַצָר ("end"); קצר ("to be short," piel "to shorten (days)")¹²⁴

lamenting, groaning (נאק אנק אנק, אנה) and those containing *he-mem* that indicate being tumultuous and loud (נהם, המם, המם).

^{120.} In relation to נוד, note רוד "to roam, wander" (+ מְרוּד) "homelessness"). In relation to גוט, note מוט to totter" and שוט "to roam about."

^{121.} Note the parallels to the roots below with *qoph-resh* that indicate boring, digging: קור, דקר, דקר, דקר, דקר.

^{122.} Note also the similarities between these roots and the following: נסח "to tear down," *niphal* "to be forcibly removed" and נסע "to tear out (door, peg), journey on."

^{123.} Cf. נפץ "to scatter" and נפץ "to scatter."

^{124.} Note the parallels to the roots listed above containing the sequence *khet-tsade* that indicate cutting and dividing: חרץ, חצה, חצה, חצה.

- *qoph-resh:* digging, boring: דקר "to pierce"; נקר "to gouge out (eyes)," *pual* "to be quarried"; עקר "to uproot"; קור dig" (+ קור "source, spring")¹²⁵
- resh-gimel: churning, being upset, creating strife: גרה "to attack"; גרה "to stir up strife"; גרה "to shake" (with earth as subject), "to be distressed"; אוז "to stir up (sea)," hiphil "to make peace"; and גרה "to be restless" (Ps 2:1; + בָּשָׁה/S 55:15/בְּשָׁא)¹²⁶
- *resh-ayin*: trembling, shaking: ירע "to tremble, fear"; נער "to shake (e.g., leaves, garment)"; רעם "to tremble"; רעם "to quiver"; רעם "to thunder"; רעם "to quake"
- shin-khet: lowering: הוה hishtaphel "to bow down"; שוח "to sink" (+ שׁחה); הוה "to bow down" שׁחה); שׁחה)
- shin-lamed: drawing off or out: גשׁל "to slip off (sandal)"; שׁלף "to slip off (sandal), draw (sword)"; שׁלל "draw out (sheaves) (+ שׁוֹלָל "barefoot")¹²⁹

The above represents only a sampling of the most obvious examples; below are further examples. It is probably not possible to remember all such correspondences within the BH lexicon. The most essential thing to retain from these lists is the existence of such correspondences. Each word will usually have its own nuance and be used in a unique manner, but the general sense is sometimes easier to remember and can often be useful when sight-reading.

A few generalizations can be made about the above groupings. Roots connected with inarticulate sounds (frequently associated with mourning and lamenting) often include the letter *he* or *aleph* and either *mem* or *nun*. Presumably this is connected to the numerous interjections with the letter *he*, which are themselves presumably based in onomatopoeia. Roots

^{125.} Note also the phonetically similar ברה "to dig." Note the parallels to the roots above with *nun-qoph* that indicate boring, digging: גָקִיק, נָקָיַ, נָקָיַם.

^{126.} Note also גרשׁ "to toss up, churn (mud from sea)," listed as a root separate from גרשׁ "to drive away" in *HALOT*.

^{127.} In relation to \mathbf{r} , note \mathbf{r} "געש" to shake." The words above are often associated with fear; note the semantically and phonetically close ערץ "to dread." In all the roots *ayin* may represent the /^c/ sound, though in געש", it may instead represent /ġ/.

^{128.} The *khet* in these roots represents different sounds, to judge from the comparative evidence: /ḥ/ in חוה and שׁחה but /ḥ/ in שׁוח.

^{129.} Note perhaps also שלה "draw out (soul)" (Job 27:8). See Blau, "Śin," 1 and Kuryłowicz, Studies, 6.

that indicate cutting often have *tsade* accompanied by either *khet* or *qoph*. The letter *qoph* with either a *nun* or *resh* often occurs in roots denoting boring and digging. *Lamed* and *ayin* often appear in roots connected with mockery.

Oftentimes only two roots with similar meanings correspond in their consonants. Those that correspond in their initial consonants include:

- בדד "to be separated" and בדל *hiphil* "to separate"
- to mix, confuse" and בלע "to confuse"
- לָהָט + flame" (Gen 3:24) (להט + להט + להט + להט (Gen 3:24) (להט + להט + לה + להט + להט
- נשק "to bite" and נשק "to kiss"
- עוה "to do wrong," piel "to twist" and עות piel "to bend"
- פגע "to meet, encounter" and פגע "to meet, encounter" (cf. נגע hiphil "to touch, reach" and נגע to approach")
- קשה "to be hard," *hiphil* "to harden (heart)" (+ קשה "stubborn") and קשה *hiphil* "to harden (heart)" (Isa 63:17)
- שׁאָה "to roar" (+ שָׁאָגָה "roaring") and שׁאָה "to roar" (+ שָׁאָוֹן + "roar")
- שקד "to watch (over)" and שקד niphal/hiphil "to look down upon."¹³⁰

Those that correspond in their final two consonants include:

- דבק "to cling to" and הבק "to embrace"
- ינס sacrifice" and טבח "to slaughter" (+ שהט "to slaughter for sacrifice")
- סתם "to seal" and סתם "to stop up"
- התת "to shatter, be terrified" and כתת "to crush"
- ענע hiphil "to make humble" and צנע hiphil "to make humble" (Mic 6:8)
- אהב +) (Ps 119:131) and תאב "to long for" (+ אהב +) יאב
- שפל "to fall" and שפל "to sink"
- ממך "to support" and תמך "to grasp, support"

^{130.} Another pair of rarely occurring roots is עצה "to shut the eyes" (Prov 16:30) and שנה "to shut the eyes" (*qal* Isa 33:15 and *piel* Isa 29:10).

- נשׁע "to rebel" (+ שָּׁשָׁע "crime") and רשׁע "to be guilty, wrong" (+ לשׁע "offense")
- שָׁלְוָה, שָׁלָוָה, שָׁלָוָה, שָׁלָוָה, שָׁלָוָה, שָׁלָוָה, יַשָּלָוָה, שָׁלָוָה, יַשָּלָוּם "quietness, ease") and
 שׁלם "to be healthy, complete," *hiphil* "to make peace" (+ שָׁלוֹם "welfare, peace")

Those that correspond in their first and last consonants include:

- ידה "to cast, throw" and ירה "to cast, throw"¹³¹
- ינה be violent," *hiphil* "to oppress" and יגה "to suffer," *hiphil* "to cause suffering"
- נהר light" (+ נְהָרָה "light" Job 3:4) and נהר "light" נור in גור "light" and "מנוֹרָה
- נסך "to pour out" and נתך to pour forth" (+ מסך to mix, pour")
- עלף and עטף "to wrap oneself, to faint"¹³²
- נס open (the eyes)" and פקח "to open."

Those words whose consonants appear in different places and sequences include:

- לעט "to swallow" (Gen 25:30)
- שָׁלָגָה/פְּלַגָה (in 2 Chr 35:5) (in 2 Chr 35:5)
 "subdivision (of family/tribe)"
- עיף/יעף "to be faint" and עטף "to be faint"
- קוץ "to loathe" and שׁקוּץ *piel* "to detest" (+ שָׁקוּץ "abhorrence,"
 * שֶׁקַץ "abomination").¹³³

Sometimes semantically similar roots and words contain only approximately similar sounds, as with the words associated with baldness and shaving that begin with a voiced velar consonant (/g/ or /k/) and end with a *khet* (presumably all representing /h/): גָּבַח "bald head," גָּבָ

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^{131.} Note the possible confusion of ירה in 4Q169 (4QpNah) 3–4 IV, 2, listed by *HALOT*.

^{132.} Note also עטה "to wrap oneself." The *ayin* in עטה and עלף may represent /ġ/, while the *ayin* in עטף may represent /[¢]/.

^{133.} The verb קצף "to be furious" seems semantically and phonetically close to שקץ/קוץ (note also נכרה ינוס "to loathe"). Note the antonymous relationships between כרה "to sell"; and שתה "to dry up" and שתה "to drink."

headed," קְרָח "bald" (+ קרח קווא קרח ינט shave one's head"), and אַלח piel "to shave" (the head, beard, etc.), the two last roots (גלח/קרח) both containing a liquid as a second root consonant. In a similar way, note the sequence of *nun* followed by a bilabial consonant (/b/, /m/, /p/) in the verbs related to blowing and breathing: נפח "to breathe, blow"; נשׁם *niphal* "to breathe"; "to blow"; נשׁם "to breathe, pant"; גלים לוס blow."¹³⁴ Words associated with binding and restraining often contain a sibilant and *resh*, as in אזר to gird on"; אזר ענים "to bind"; עצר "to restrain, lock up"; אזר "to bind, restrict." Verbs that indicate languishing, drying out, weakening often have a *lamed* accompanied by a bilabial and/or an *aleph*: אבל "to languish" to languish, wither."

As with the other roots and words listed above, the relevant letters can occur in any order. Note in particular the set of words connected to hiding: מסמיני (to hide" (+ מָטְמוֹן (הַרָּשׁיָל) מסמי "to hide"); and the words related to flowing: גר "inphal "to flow"; גהר "to flow, stream" (גהר "to flow, drip"; גָּהָר +) "to flow, drip"; גָּהָר +) "to flow מון מוני מסמי (to hide"); and the words altered be familiar to the student, as with היה "to be" (to be").

^{134.} Another word of the same semantic field is expressed with similar sounds: אָאָרָ "to gasp, pant."

^{135.} Note also the initial-nun verbs נבע "to flow" and נזה "to spurt." Note the initial *khet* (the exact realization of which is often obscure) followed by a final *resh* in verbs denoting searching and digging: חפר "to dig, search for"; חקר "to search, examine"; חתר "to dig, row" (+ note the similarity with הפש" to search for, examine"). Note to turn, change" and הפך "to pass away" הפך "to turn, change" and הלף "to pass away" hiphil "to change"; צעק/זעק "to cry out" (+ צעקה/זעק "cry") and שוע piel "to cry out" (+ הועה "cry"); חבק "to embrace" and השק "to be attached to = to love" (cf. Aram. to mix, pour," נסך "to pour out," מסך "to mix, pour," נאץ to pour out," נתך "to mix, pour," מאס "to pour forth," מַצוּק "to anoint oneself," and צוק to melt, pour out" (+ מַצוּק "molten pillar"); סכן "reach, attain"; סכן to approach, "נגע "to reach, attain"; סכן and סגן and סכן מסכן "official" and נָשָיא ("ruler, tyrant" (+ נָשָׁיא "prince"); מָמֵל "image, statue" and בַּסָל "idol, image" and שמד "image"; גמת "to destroy," niphal "to be destroyed" and שמד niphal "to be destroyed," hiphil "to exterminate," as well as שחת niphal "to be destroyed," hiphil "to annihilate, ruin, destroy"; רוח pual "to be wide" (+ רָוָם "width, space") and "to creep" and "רחב (to be broad, wide" (+ רָתָב "wide space," רָתָב "breadth"); רמש "to creep" and "to swarm"; ספק/שפק "to be satiated" and שפק "to be sufficient (+ לפק/שפק "sufficiency"); שׁקט "to be quiet" and שׁתק "to be silent" (+ perhaps סכת hiphil "to be quiet" Deut 27:9).

and חיה "to live." Many correspondences have already been listed above in the footnotes (e.g., קמץ, קבץ, קמץ, קמץ).¹³⁶

In certain rare cases, correspondences between roots and words may be due to their origin through onomatopoeia, as with רקק/ירק (Lev 15:8) "to spit" and לקק/לעע to lick up." Note also the verb לחך to lick up" that is a separate root, but similar in sound to לקק.

The benefit to the intermediate student of being at least familiar with some of these sets of words should be obvious. Recognizing the meanings associated with a pair of consonants can help one learn and remember vocabulary, even if not every word of a set is remembered and even if the nuances of particular words are not thrown into relief. We must remember, however, that similarity in sound does not always mean a similarity in meaning.¹³⁷

In addition, being sensitive to these groups of related words helps us understand the biblical text. The similarities between these words were not ignored by the ancient writers, who sometimes used these words together, as with $\Box r$ to bow down" and $\Box r$ to bend" in Isa 46:1, 2. In other passages, the similarities between the various roots seem to have led to confusion. In 2 Kgs 17:21, we find the form מרין, which reflects a *ketiv/qere* distinction. The *ketiv* reflects the root $\Box r$, an otherwise unknown byform of $\Box r$ (which appears in the *piel* "to drive away, postpone" only twice, Isa

^{136.} Even more vague associations can be noticed. E.g., note the numerous verbs having to do with breaking or shattering that involve a *tsade* as a final root consonant: נפץ "to smash"; נרק "to tear down"; פעי "to break into pieces"; יבי "to break"; ידע "to destroy"; ידע "to oppress, smash" or words connected to dripping that end with a *pe*: רעף "to leak, shed (tears)"; יַרָין "drop" (Ps 72:6); נטף "to drip"; ידעף "to drip"; ידעף "to drip." Note the number of verbs denoting opening the lips or mouth that begin with a *pe*: ידעף "to escape," *hiphil* "to open (lips)"; ידע "to open (the mouth)"; פטק "to spread (the lips)." The examples are easily multiplied. Just among words beginning with *tsade*, note the numerous words having to do with dryness: ידע "to be dried out" (? Gen 41:23); and the numerous words having to do with screaming (with a guttural following the *tsade*): "to cry out, rejoice"; שנחק "to cry out" (Isa 42:11; + "ניק").

^{137.} Sometimes it seems even lexicographers were influenced by the similarity in sound. So, e.g., BDB glosses נגן as "touch (strings), play a stringed instrument," just before the more common verb נגע "to touch," though *HALOT* glosses the former as simply "to play a stringed instrument." No evidence is presented in BDB to explain the gloss "touch."

66:5; Amos 6:3), while the *qere* (together with the ancient translations) reflects the more common verb נדח in the *hiphil* "to expel."

2.10. Variation of Orthography and Pronunciation within Roots and Words

Some of the examples from preceding sections may be due to a particular scribe's or author's personal predilections, the peculiar ways that one scribe or author wrote or pronounced Hebrew. In some cases these may reflect dialectal peculiarities. Although both $\gamma \psi \tau$ and $\gamma \psi \psi \tau$ ("to cry out") occur throughout the Bible, $\gamma \psi \tau$ appears just once in the Pentateuch, but six times in Nehemiah and 1–2 Chronicles, as well as throughout the DSS; $\gamma \psi \tau$ occurs, on the other hand, over fifteen times in the Pentateuch, but just twice in Nehemiah and 1–2 Chronicles and never in the nonbiblical DSS; $\gamma \psi \tau$ can safely be considered characteristic of LBH.¹³⁸

Some variations in spelling/pronunciation no doubt reflect simple scribal mistakes. These are clearest where a particular spelling does not make sense as with Hos 5:11: אָ "commandment (?)" for אָיָא "something worthless"¹³⁹ and אָיָן in (1 Kgs 7:45), the *ketiv* reflecting "the tent" (= (*הָאֵׁהֶל), which makes no sense, and the *qere* reflecting "these" (= גָּאַהֶל).¹⁴⁰ Often, the scribal mistakes mirror phenomena described above. Thus, אָ versus אָיָן is similar to the variation between sibilants; the *ketiv* and *qere* alternatives in הָאֵהָל reflects metathesis of the *he* and *lamed*. In some cases, determining what is a scribal mistake from what is a true trait of a dialect or register of the language can be hard. Note, for example, the single instance of the root אָיָן הָלאָרָ "to extinguish" or is it a simple mistake?

In other cases, the evidence from the MT and DSS seems to suggest that variations in the orthography/pronunciation reflect developments in the language during the course of the first millennium BCE. A particularly clear example of this is the cases where *aleph* replaces an etymological *vav*

^{138.} See Reymond, *Qumran Hebrew*, 188; Kutscher, *Isaiah Scroll*, 34. For a lengthy description of these byforms, see Hornkohl, *Ancient Hebrew Periodization*, 78–82.

^{139.} Friedrich Delitzsch, *Die Lese- und Schreibfehler im Alten Testament* (Berlin: de Gruyter, 1920), 125. Note also לְהַשִׁיב "to return" in 2 Sam 8:3 for presumably לְהַצִיב as found in 1 Chr 18:3 and with velar consonants וַיָּצִקוּ "they poured" in 2 Sam 15:24 for וַיָּצָקוּ "they set" (ibid.).

^{140.} Emanuel Tov, *Textual Criticism of the Hebrew Bible*, 3rd rev. ed. (Minneapolis: Fortress, 2012), 233.

or yod, as with פָּתָאיָם "simple" in the plural: פָּתָאיָם "simple" Ps 116:6 and passim (the ketiv presuming $pta'im < *p \partial t \bar{a}' \bar{i}m$ and the gere presuming pasture of " (Ps 23:2) (Ps 119:130);¹⁴¹ נאוֹת pasture of " (Ps 23:2) and passim instead of גוֹת (Zeph 2:6). This kind of dissimilation may also appear in התאו "you will mark" (in Num 34:7, 8) (as though from האה) for התוו * "you will mark" (from תווה).¹⁴² In other words, etymological vav and *yod* were replaced by a glottal stop in certain positions within words. Words in which this took place were spelled with *aleph* in the Second Temple era and this was preserved in the consonantal text of the MT. On the other hand, the oral tradition known to the Masoretes either preserved the earlier articulation of these words with *vav/yod* or it revocalized these words according to their perceived etymology. The reverse phenomenon, of vav or yod appearing for etymological aleph, is rarer: דוֹאג "Doeg" (in Ps 52:2) instead of דויג (in 1 Sam 22:18); and רבאות "ten thousands" (in Dan 11:12 and Ezra 2:69) for רבות * ribbowot.¹⁴³ In all these cases, the spellings represent phonetic variations of a single root and, so, are usually listed under just one root. Sometimes, however, dictionaries do list the roots separately (as in תאה and תווה).

2.11. Chapter Summary

Historical Details

- In Classical Hebrew, ⊓ represented two phonemes /h/ and /h/; 𝒴 represented /^c/ and /ġ/; 𝒴 represented /š/ and /ś/.
- Classical Hebrew contained byforms reflecting different PS/ PNWS phonemes (e.g., נטר/נצר "to guard"), different root classes (e.g., בזה/בוז "to despise"), and different realizations of a basic sound (e.g., bilabials: נשׁף/נשׁב "to blow").

^{141.} This dissimilation of /y/ > /³/ likely helps preserve the syllable structure of the word (see Reymond, *Qumran Hebrew*, 127–31). Note also חַלָאָים Song 7:2 for דְלָיִים, and אַפָּיִים Ps 104:12 for עָפָיִים אַפָּייָם. This phenomenon also occurs with final *yods* that are not part of the root, as with הַהַגְרִיאִם "the Hagarites" (1 Chr 5:19, 20) for הַהַגְרִייִם, and הַאָרָבִיאָם "the Arabians (2 Chr 17:11) for הָעָרְבִיאַים.

^{142.} Cf. וְהָתְוִיתָ "he marked" 1 Sam 21:14 (for expected וְהַתְוִיתָ *) and וְהַתְוִיתָ "you set a mark" Ezek 9:4.

^{143.} See Reymond, Qumran Hebrew, 123–24. Note also דְּנִיֵאל < *dāniyyēl/*dānīyēl "Daniel" Ezra 8:2 and passim vs. דָנָאָל < *dānī'ēl in Ezek 14:14 and passim.

3. Classical Hebrew often expressed a common idea through similar sounding but etymologically distinct roots (e.g., the words having to do with spreading, dividing, tearing that begin with *pe-resh*).

Learning Tips

- Memorize weak roots together in order to remember their similarities and disparities (e.g., בזה/בוז means "to despise," but בזה means "to plunder").
- Memorize the most common examples of alternation between similarly articulated consonants (e.g., צעק/זעק "to cry out"; / צָעָיר "to cry out"; / זַכַד "to be pure" and דָק "to refine"; זַכן "thin, small, fine," and יַם "to refine"; הדר/אדר "to be pure" and זק honored"; און "power, wealth" and הדר/אדר "wealth")
- Memorize the most common examples of metathesis that result in new words (i.e., בַּלְהָה/בֶּהְלֶה "terror, calamity"; זַעַוְה/זְוָעָה "terror"; אַנְק/נאק "lamb"; אַנָק/נאק "to groan" [+ אַנָקה/שִׂקָה "groan"]; גָאָקָה "garment").
- 4. Use the similarities between the sounds of words to help remember rarer words one encounters while reading (e.g., נות בזר/בזר piel "to scatter"; קרח *niphal* "to shave one's head"; and גלח *piel* "to shave" [the head, beard, etc.]). This is particularly useful when you know one of the words already.
- 5. Memorize, when practical, the sequences of letters and their semantic associations (e.g., *pe-resh:* spreading, dividing, tearing).

3 Phonology of Ancient Hebrew: Vowels

As is the case with the consonants, the vowels of Biblical Hebrew differed in their articulation in different eras. However, the historical development of the vowels is more complex than that of the consonants. We begin with the vowels of the Tiberian tradition, then move backward in time to the vowels likely present at circa 200 BCE–100 CE and the correspondences between all these later vowels and the much earlier PS/PNWS set of vowels.

As stated in the preface, the central focus of this study is a form of Biblical Hebrew in Second Temple times that is an ancestor to THT. Although it may seem merely speculative to attempt to reconstruct the vocalic dimension of BH for a period in which vowels were not explicitly or consistently committed to writing, I believe it is useful. Tracing the possible development of vowels provokes us to think about the language's evolution at this crucial period of its history with more precision. Moreover, identifying common vocalic shifts allows us to perceive the underlying similarities between sets of words that we would otherwise not associate with each other. This, in turn, can make their memorization easier.

Several matters should be explained before going further. In relation to vowels, we will distinguish two general characteristics: quality and length. Quality refers to the character of the sound as determined by the manipulation of the tongue, lips, and mouth. The /i/, for example, is produced with the tongue pushed up, toward the roof of the mouth, while the /a/ is produced with the tongue low, where it usually rests. Length refers to the duration of the sound, that is, the length of time it is pronounced.¹ In other words, a long /i/ has the same place of articulation in the mouth as

^{1.} This is slightly different from how the term is used in primary and secondary education (in the USA), where a "short vowel" often has an entirely different manner of articulation than the same vowel when it is "long" (e.g., the "short a" in "bat" = IPA [bæt] tongue low vs. the "long a" in "ape" = IPA [ep] tongue slightly raised).

a short /i/, but the long / \bar{i} / is pronounced for a longer time. Usually a long vowel is indicated with a macron (e.g., / \bar{i} /); another way of transliterating a long vowel is with the ":" symbol used with IPA symbols: / \bar{i} / = [i:].

As just mentioned, the pronunciation of /a/ requires the tongue to lie flat, at the bottom of the mouth. The mouth is relatively open in the pronunciation of this vowel. Thus, the /a/ is often characterized as a low or open vowel. An /i/ or /u/ requires the tongue to be raised toward the roof of the mouth. Furthermore, the /i/ is produced with the tongue pressed toward the top front of the mouth and the /u/ with the tongue pressed toward the top back. The /i/ and /u/ are both high vowels, the /i/ being a high front vowel and the /u/ a high back vowel.² The common place of articulation of /i/ and /u/ means that they often will behave in a similar way, unlike the /a/ vowel. Vowels that are articulated with the tongue half-way between the bottom and roof of the mouth are called midvowels and can be described in relative terms to each other. For example, the sound of /e/ (IPA [e]; the "e" in "hey") is higher than ϵ / (IPA [e]; the "e" in "pet"); similarly, /o/ is higher than /a/ and lower than /u/. In Hebrew, there is evidence not only of the lengthening of vowels (e.g., $*/a/ > */\bar{a}/)$, but also of the lowering of vowels (i.e., */i / > /e/, $*/i / > /\epsilon/$, and */u / > /o/), as explained below.

The relative place of articulation for the vowels of BH is represented in the chart below.



Table 3.1. Place of Articulation for the Vowels of Biblical Hebrew

^{2.} In addition, it is common to see references to these vowels (/i/ and /u/) as "close" vowels, meaning that the tongue is pressed close to the roof of the mouth. This is a somewhat confusing term since, in relation to vowels, we often refer to closed syllables. In any case, "close" is the opposite of "open."

There are three /i/-class vowels: /i/, /e/, and / ϵ /; one /a/-class vowel: /a/; and three /u/-class vowels: /u/, /o/, and /a/.

The last syllable of many verbal forms is also accented in THT:

- the third-person forms of the qåtal (e.g., *kātab [> בָּתַבּה] "he wrote,"
 *kātabā [> בָּתַבָה] "they wrote")
- all forms of the *yiqtol* except the third- and second-person feminine plurals (e.g., **yiktob* [> יְכָתּבוֹן "he will write," **yiktəbū* [> יְכָתָבוֹן "they will write")
- all forms of the imperative except the feminine plural (e.g., *kətob
 [> כָּתָבוּ (בְּתָבוּ : "write!")
- infinitives (e.g., *kətōb [> כָּתב] "writing" and *kātōb [> פָּתוֹב]
 "write")
- participles (e.g., *kōtēb [> לַתַב] "one writing").

On the other hand, most second- and first-person *qåṭal* verbs are penultimately stressed (e.g., **kātabtā* [> בְּתַׁבְתּ] "you wrote" and **kātabtī* [> בַּתַּבְתָּ

As for construct forms, no syllable is considered tonic (though in THT construct forms are supplied with accent/cantillation marks). Nor is

^{3.} Note that in singular nouns with pronominal suffixes the final syllable is usually accented (e.g., *dəbārī [> יְּבָרָה], *dəbārō [> דְּבָרָה], *dəbārēnu [> דְּבָרָה], versus *dəbārēnū [> דְּבָרָין]). In plural nouns with pronominal suffixes, the penultimate syllable is often accented, though not exclusively (e.g., *dəbārekā [> דְּבָרֶין], *dəbārehā [> דְּבָרָין], *dəbārēnū [> דְּבָרָין], *dəbārenū [> דְּבָרָין], *dəbārenū [> דָבָרָין], *dəbārēnū [> דָבָרָין], *dəbārenū [> דָבָרָין], *dəbārēnū [> דַבָרַין], *dəbārēnū [> דַבָרַין], *dəbārēnū [> דַבָרַין], *dəbārēnū [> דַבָרַין]).

any considered pretonic, even if the noun following the construct form is accented on its first syllable.

An important source of information on the vowels is that provided by the transcriptions of Hebrew words in the LXX and in the second column of Origen's Hexapla. The words transcribed in the LXX are generally names, but some common nouns are also transcribed. Since such transcriptions were not governed by standard rules of grammar, they were easily misspelled in the course of the LXX's transmission.⁴ The second column of Origen's six-column Hexapla is conventionally referred to as the Secunda. It was a full transcription of the Hebrew Bible into Greek letters. The multi-volume Hexapla is now lost. The Secunda, itself, exists only in extremely small fragments and in a medieval palimpsest that preserves portions of only some transcriptions of a few psalms.⁵

Although the Secunda is commonly associated with Origen and although it formed the second column of his Hexapla, he is not necessarily its author. This is implied especially by the fact that the values of the Greek letters do not seem to match the pronunciation of Greek letters at the time of Origen, in the first half of the third century CE.⁶ At this time, for example, the $\bar{e}ta$ (η) was pronounced as / \bar{i} /; this value for $\bar{e}ta$ is calculated to have become dominant in the literary register already by circa 150 CE.⁷ This is clearly not what the Secunda presupposes. The Greek transcription of the Hebrew preserved in the Secunda seems to presuppose, in fact, a version of Greek pronunciation that dates no later than the first century CE.⁸ In earlier Greek, including at the time of the LXX translation of Genesis, the

6. See Janssens, Studies in Hebrew Historical Linguistics, 20.

7. See W. Sidney Allen, *Vox Graeca*, 3rd ed. (Cambridge: Cambridge University Press, 1987), 63–64, 70–71.

8. Allen (*Vox*, 74) notes that Dionysius of Halicarnassus distinguishes *ēta* from *iōta* in the first century BCE.

^{4.} See Yuditsky, "Transcriptions into Greek and Latin Scripts," 3:803.

^{5.} See G. Mercati, *Psalterii Hexapli Religuiqae, pars, prima, Codex rescriptus Bybliothecae Ambrosianae O. 39 SVP: Phototypice expressus et transcriptus.* Rome: Pontifical Biblical Institute, 1958; and Alexey Yuditsky's new readings ("New Readings of MS O39 from the Ambrosian Library" [Heb.], *Leshonenu* 68 [2008]: 63–71). In addition, note the fragments, e.g., in C. Taylor, *Hebrew-Greek Cairo Genizah Palimpsests from the Taylor-Schechter Collections, Including a Fragment of the Twenty-Second Psalm according to Origen's Hexapla* (Cambridge: Cambridge University Press, 1900), 10–11.

ēta represented a long $/\bar{e}/.^9$ But, presumably in the following centuries (up to ca. 100 CE), the *ēta* moved closer in articulation to $/\bar{e}/$, on its way to being pronounced as $/\bar{1}/.^{10}$ As for *epsilon*, we assume a pronunciation /e/ (IPA [e]), meaning that in the Secunda *ēta* and *epsilon* were distinct primarily in length.¹¹ This distinction, however, does not necessarily reflect the vowels of the Hebrew tradition that the Secunda seeks to transcribe.

In what follows I often assume that the underlying Hebrew midvowel to which the $\bar{e}ta$ corresponds is $/\bar{e}/$ and the underlying vowels to which the *epsilon* corresponds are /e/ and $/\epsilon/.^{12}$ More generally, I assume that the Hebrew pronunciation that the Secunda attempts to render is contemporary with the pronunciation of Greek letters implied by it (i.e., ca. 100 BCE–100 CE). It should be admitted here that although we will rely on the Greek transcriptions to inform our understanding of the development of Hebrew, they do not represent the direct antecedent to THT; rather, each exists as an independent tradition.

3.1. Tiberian Biblical Hebrew Vowels

The vowel phonemes known from Tiberian Biblical Hebrew (dating to ca. 800 CE) are listed below in the chart.¹³ Each vowel's approximate pronun-

^{9.} Geoffrey Khan, "The Historical Background of the Vowel *sere* in Some Hebrew Verbal and Nominal Forms," *BSOAS* 57 (1994): 135–37, esp. 136 n. 14.

^{10.} Ibid., 137.

^{11.} Khan (ibid.) notes that in the Secunda *epsilon* "was pronounced [e]." Khan (141) cautions not to assume that the Secunda tradition is the "direct forbear of the medieval Tiberian pronunciation tradition" and notes that it is not clear whether the shift in quality that resulted in two /i/-class vowels, $|\varepsilon|$ and |e|, is evidenced in the Secunda. As stated above, I assume for this study that *ēta* and *epislon* were distinct in quantity, not quality.

^{12.} The epsilon also occurs where I assume a sophisticated pronunciation of Second Temple Hebrew had /i/ (e.g., νεβαλ "one terrified" Ps 30:8, cf. גָּבְרְדָּוֹ, βρεδεθι "in my descent" Ps 30:10, cf. בְּרְדָוֹ, וּבּעשׁׁׁׁׁסִט "they will guard" Ps 89:32 cf. [pausal] (יָשָׁמֹרוּ); for the examples, see Alexy Eliyahu Yuditsky, "Hebrew in Greek and Latin Transcriptions," HBH 1:111 and Einar Brønno, Studien über Hebräische Morphologie und Vokalismus auf Grundlage der mercatischen Fragmente der zweiten Kolumne der Hexapla des Origenes, AKM 28 (Leipzig: Brockhaus, 1943), 35. As in the penultimate example, epsilon even appears where THT lacks a vowel.

^{13.} See Khan, "Tiberian Pronunciation Tradition," 13–23.

ciation is made clear to us by the medieval Hebrew grammarians.¹⁴ The phonemes are listed according to their place of articulation, beginning in the front of the mouth and working backward toward the throat.

Name of Vowel Symbols	Phonemes of (Tiberian) Biblio Hebrew, ca. 800		<i>matres</i> typical of the MT	Contemporary USA Classroom Pronunciation
hireq	i "ski"	i or ī	(۲)	i and 1 "ski/hit"
tsere	e "hey"	ē	(ה)/(י)	e
shewa	_	- and ə		- and ə
segol	ε "pet"	e	(ה)	ε and e
patakh	а	а		a or a
qamets	å [IPA ɔ] "pav	"ā or o	(ה)	a or o
holem	0	ō	(1)	0
shureq	u	ū	1	u
qibbuts	u	u (and ū)		u

Table 3.2. Vocalic Phonemes of Tiberian Biblical Hebrew

The symbols used to represent the sounds seem mostly self-explanatory, but this is somewhat deceiving. One should note the values described below. Of the symbols that might be unfamiliar, note that the "å" and "ɔ" symbols represent the "aw" sound in the North American pronunciation of the word "paw" (i.e., IPA [pɔ]). The two symbols "a" and "a" represent two slightly distinct sounds, the first heard in the British pronunciation of "handle" and the second in the pronunciation of the word "car."¹⁵ The " ε " symbol represents the "e" in "pet" (IPA [pɛ1]), while the "e" represents the sound of "e" in "hey" (IPA [heɪ]). The *shewa* symbol, "ə", represents a muttered vowel; when pronounced by the Masoretes it was articulated as /a/.¹⁶ The IPA [1] symbol represents the sound of "i" in the word "hit." The symbol "i" in the chart, however, represents a different sound, the sound

^{14.} Ibid. See also Geoffrey Khan, "Karaite Transcriptions of Biblical Hebrew," *HBH* 1:147-60.

^{15.} See OED, s.v.

^{16.} See Geoffrey Khan, "Shewa: Pre-Modern Hebrew," EHLL 3:544.

of "i" in the English word "ski" (IPA [ski]) and the sound of "ee" in "street" (IPA [strit]).¹⁷

In the above chart, one will notice that for the Tiberian Masoretes there was no significant distinction between long and short vowels. The *qamets* did not represent a long /ā/ sound, but rather the sound of /å/ (= the "aw" in "paw"). Thus, the distinction between *qamets* and *patakh* was not one between long and short /a/, but between /å/ and /a/, sounds that are made in different parts of the mouth.¹⁸ This was even the case where *qamets* corresponds to a historical short /u/, as in the word ¬ŗ= håkmå (< *hukmatu) "wisdom."

Although it is true that depending on its place in a word, a vowel might have been pronounced for a longer or shorter time, vowel length was generally not used to distinguish different words.¹⁹ This is one major distinction between the Hebrew of the Tiberian Masoretes and earlier Hebrew. In the earlier phases of Hebrew (including the dialect of Canaanite that became Hebrew), a word or form with a long vowel would mean something different from a word or form with a corresponding short vowel. For example, the base **qatil* would imply an adjectival form while the base **qātil* would imply a participle (often a substantivized verbal adjective). Thus, *'*aminu* (>*'āmēn > ' \dot{x} ''foster-father''). Similarly, even in later, Second Temple times, the length of a vowel could imply a different sense for a word, as is presumed based on distinctions like *dam (> \Box) "blood" and *dam (> \Box)" "blood"

^{17.} For audio examples, see the website https://web.uvic.ca/ling/resources/ipa/ charts/IPAlab/IPAlab.htm from the University of Victoria (British Columbia).

^{18.} Similarly, the difference between *segol* and *tsere* is not the difference between short and long /e/, but rather a difference in the quality of vowels.

^{19.} Khan, "Tiberian Pronunciation Tradition," 14–15. Note one possible exception: אָרָלָה "food" and אָרָלָה "she ate" (see ibid., 20). In the Tiberian tradition, length was based, in part, on where the vowel occurred in a word. In a tonic syllable, the short vowels /i/, /ɛ/, /a/, and /u/ became long (i.e., IPA [i:], [ɛ:], [a:], [u:]). A similar thing happened when the following letter was a guttural or a *yod*, *lamed*, or *nun*. It should be emphasized, however, that although the pronunciation was lengthened, the symbol associated with the vowel remained the same. That is, a lengthened /a/ was still written with a *patakh*. Although the length of vowels was not commonly used to differentiate meaning, Khan does note that to discern the underlying phonological system of THT, one must discriminate between long vowels that are "invariably long" and those only long due to where they occur in a word. See Khan, "Vowel Length: Biblical Hebrew," *EHLL* 3:981–85.

of.^{"20} For the Tiberian Masoretes, however, these words and forms were distinguished especially by the different qualities of vowel: *`amen* versus *`omen* and *dam* versus *dam*. The loss of vowel length as a meaningful characteristic seems to have taken place sometime near the middle of the first millennium CE, just prior to the time of the Masoretes, as implied by the fact that Jerome testifies to the existence of distinctions between vowel length.²¹

Several other details of the above chart deserve attention. Note the disparity between the phoneme marked by *segol* in Tiberian Hebrew and the manner in which it is commonly transliterated. The common transliteration of *segol*, as "e," partially masks the fact that the vowel for the Tiberian Masoretes ($|\epsilon|$) was qualitatively different from *tsere* (|e|); at the time of the Masoretes, the two vowels were made in distincts parts of the mouth (|e| is pronounced with the tongue more raised than in the pronunciation of $|\epsilon|$). Despite their common transliteration by a single Roman letter, the two vowels (*segol* and *tsere*) are often distinguished in the classroom, corresponding with the basic phonemes of the Tiberian Masoretes.²²

A similar disparity relates to the *qamets*. The vowel marked by the *qamets* in THT (/a/ = IPA [$_{0}$]) is distinct in its quality from the vowel implied by its common manner of transliteration (i.e., /a/ or /o/), not to mention how it is usually pronounced in the classroom. The distinction between /a/ and /o/ in the modern classroom derives from contemporary Modern Israeli Hebrew, which descends ultimately from Sephardic tradition.²³ Although this differs from the tradition of the Tiberian Masoretes, the distinction between a *qamets* that sounds like /a/ and a *qamets* that sounds like /o/ does have a legitimate BH pedigree, as described below.

Finally, notice that for the Masoretes the absence of a vowel and the presence of a muttered vowel (i.e., a *shewa* vowel) were, according to their system, phonologically identical.²⁴ Although the Masoretes, according to their own descriptions, pronounced a muttered vowel (phonetically [a]),

^{20.} The distinction in length may be reflected in the Secunda where $i \tau$ is transcribed ιαδω (Ps 89:26) and = is transcribed βιεδ (Ps 31:9). The Greek letter *epsilon* in the Secunda sometimes corresponds to *patakh* in THT, but not to *qamets*.

^{21.} See Tapani Harviainen, "Transcription into Latin Script: Jerome," EHLL 3:823.

^{22.} Though etymological III-*vav/yod* roots that end in *segol* are routinely pronounced as if they contained *tsere*.

^{23.} See Blau, Phonology and Morphology, 109.

^{24.} Khan, "Shewa," 3:544.

they did not conceive of this vowel as part of a separate syllable. It represented essentially an epenthetic vowel, that is, a vowel secondarily inserted into the word, not unlike a furtive *patakh* (on which, see below).²⁵ Where the *shewa* would be pronounced after a guttural it had a specific quality (indicated through the *khatef*-vowels, also called composite vowels: *khatef-patakh*, *khatef-segol*, *khatef-qamets*). But, such a vowel was not part of its own syllable. For this reason, these vowels are not typically indicated in this book in the transliteration of words in THT.

If an /i/-class or /u/-class vowel precedes a guttural at the end of the word, often a *patakh* will appear between this vowel and the following guttural (e.g., גָּבִיעָ "bowl," and רוּחַ "spirit"). This is the furtive *patakh*. Here, again, the vowel did not initiate a new syllable (and is ignored in transliteration).²⁶

The reason that we do not follow the Tiberian Masoretic pronunciation model more closely in our classrooms is not only due to the influence from the pronunciation of the living, modern language. It is also due to the complexity of the pronunciation tradition. The precise articulation of the Tiberian tradition was even difficult for near contemporaries of the Masoretes to master.²⁷

Here, it should be remarked again that the Tiberian pronunciation represents only one tradition among many. As mentioned before, the Babylonian and Palestinian traditions both differ from the Tiberian in various ways.²⁸ For example, the Babylonian and Palestinian have no vowel symbol corresponding to THT *segol.*²⁹ Furthermore, the various transcriptions into Greek and Latin do not correspond exactly with the Tiberian tradition, each transcribed text exhibiting its own peculiarities.

^{25.} Ibid.; Khan, "Syllable Structure," 3:666.

^{26.} The furtive *patakh* is not attested in the Secunda, though it does seem to be reflected in transcriptions in the LXX (like voɛ for נֹת "Noah" Gen 5:29) (Yuditsky, "Transcription into Greek and Latin Script," 3:805).

^{27.} See Khan, "Tiberian Reading Tradition," 3:770, who writes: "It appears that the Tiberian pronunciation was not fully known even to the medieval grammarians of Spain ... (eleventh century C.E.)."

^{28.} See Khan, "Biblical Hebrew: Pronunciation Traditions," 1:341–52; Heijmans, "Babylonian Tradition," 1:133–45; Yahalom, "Palestinian Tradition," 1:161–73; Gzella, "Tiberian-Palestinian Tradition," 1:175–85.

^{29.} The Palestinian tradition has a single symbol to mark what are in THT ϵ and ϵ , while the Babylonian has a single symbol to mark what are in THT ϵ and a.

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3.2. Classical Biblical Hebrew Vowels

The documentation of vowels for the early periods of Biblical Hebrew is complicated by the fact that the orthography did not typically indicate vowels in the interior of words. What we assume about these early eras (e.g., ca. 800 BCE) is in large measure based on historical reconstruction of the language. In the early part of the first millennium BCE, when many of the early biblical texts were first composed, it is assumed that Hebrew had the same vowels as in PNWS, in addition to a few others (e.g., $/\bar{e}/, /\bar{o}/)$ which emerged due to various linguistic developments described below. Still, it is hard to say anything definite about the nature of vowels in this era due to the lack of evidence.

Toward the end of the first millennium BCE, the inventory would have been slightly larger.³⁰ The chart on page 71 contrasts the PS/PNWS vowels with the corresponding vowels presumed for Hebrew at circa 200 BCE–100 CE, when we have a slightly better guess as to their articulation. In this chart, the historical long vowels and their reflexes are listed first and then the short vowels.³¹

The vowels of PS/PNWS are assumed based on comparative evidence (e.g., Ugaritic and Arabic) and historical reconstruction.³² The vowels of Hebrew from circa 200 BCE–100 CE are based on, among other things, historical considerations, spellings in the DSS, transcriptions in Greek, and later pronunciation traditions. Given the nature of this evidence (which is often contradictory), the isolation of individual phonemes is difficult. For example, it is unclear to what degree the various vowels were allophones of each other. Was /e/ simply an allophone of /ɛ/? Or, was /ɛ/ an allophone of /a/?³³ Was there, in addition to the short midvowel /ɛ/, perhaps also /ɛ/?

The sequence of vowels for the late Second Temple era listed in the table below is one less than the sequence sometimes assumed for pre-Masoretic Hebrew. The vowel $\bar{|e|}$ may have existed as a reflex of certain

^{30.} We assume, e.g., that vowel reduction had not taken place in the earlier period.

^{31.} Some ambiguity pertains to some of the vowels in the second column; see below. Column 3 is informed by but not identical to the chart in Yuditsky, "Hebrew in Greek and Latin Transcriptions," 1:103. For a summary of correspondences between the vowels of the Secunda and those of THT, see Brønno, *Studien*, 453–63.

^{32.} See, e.g., Huehnergard, "Afro-Asiatic," 142–43; Kogan, "Proto-Semitic Phonetics and Phonology," 119.

^{33.} See Blau, Phonology and Morphology, 113.

Phonemes of PS/ PNWS	Vowels of Bibli- cal Hebrew, ca. 200 BCE–100 CE	Common Real- ization in the Secunda	Phonemes of (Tiberian) Biblical Hebrew, ca. 800 CE	Name of Vowel Symbol	Contemporary USA Classroom Pronunciation
ī	ī	ı and ει	i	hireq	i
a	ū	З	0	holem	0
ū	ū	on	n	shureq, qibbuts	n
	e pue -	(ι and ε [?])	T	shewa	e and -
	i	ι and ε	i	hireq	i and I
	ω	ω	ω	segol	ε and e
	e		e	tsere	e
	ē	ų			
	- and e	(ι and ε [?])	I	shewa	- and e
а	а	α and ϵ	а	patakh	а
	ā	α	å [IPA ɔ]	qamets	a or a
	- and e	(ι and ε [?])	I	shewa	- and e
:	n	0	n	qibbuts	n
Ъ	0		å [IPA ɔ]	qamets	0
	Ō	З	0	holem	0

Table 3.3. Vowels of Biblical Hebrew

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triphthong contractions, especially at the ends of III-*vav/yod* words (e.g., **yabniyu* > *yibn* $\bar{\epsilon}$ "he will build").³⁴ Since the final vowel of such words is represented in the Secunda by a short vowel, *epsilon*, I assume that at some point in the first millennium, the vowel had shortened (i.e., **yibn* $\bar{\epsilon}$ > *yibn* ϵ = γ *i* ϵ).

The existence of *shewa* |a| (or a muttered vowel) in the Hebrew of the era of circa 200 BCE–100 CE is suggested by numerous pieces of evidence. For the evidence and arguments, see §3.6 below, "Vowel Reduction."

3.3. Developments of Individual Vowels³⁵

The hypothetical transformations of the vowels are summarized initially, and then a more detailed presentation is given. Following this, more specific phenomena are described.³⁶ The goal of the illustrations here and below is not to give the student a comprehensive picture of the development of ancient Hebrew vowels (for which one may consult more in-depth treatments, such as Blau's *Phonology and Morphology of Biblical Hebrew*), but rather to introduce the student to the basic underlying developments and to give the student the rudimentary framework that will enable them to absorb the language's morphology and predict the inflection of nouns and verbs. Again, the hypothetical nature of the identification of vowels should be emphasized.

The historical long vowels remained long vowels; their length did not change. Their qualities were, for the most part, also stable over time. The

36. Much of the following chapter, as well as material in chaps. 4–6 is informed by John Huehnergard, "Biblical Hebrew Nominal Patterns," in Hutton, *Epigraphy, Philology, and the Hebrew Bible*, 25–64; Joshua Fox, *Semitic Noun Patterns*, HSS 52 (Winona Lake, IN: Eisenbrauns, 2003); and *HGhS*. In addition, I have benefited from attending historical Hebrew lessons in my training under Dennis Pardee at the University of Chicago and from consulting the unpublished manuscript by Thomas O. Lambdin and John Huehnergard, "The Historical Grammar of Classical Hebrew: An Outline" (2000), as well as earlier realizations of the same manuscript.

^{34.} See, e.g., Joseph Lam and Dennis Pardee, "Standard/Classical Biblical Hebrew," *HBH* 1:8.

^{35.} The earliest forms of nouns and adjectives (including participles and infinitives) reconstructed in this section are represented with word-final historical short vowels; these word-final vowels mark the nominative case in the hypothetical second millennium version of Canaanite (see ch. 4 §2, "Case and Number in Second Millennium Northwest Semitic").

vowels /ī/ and /ū/ continued to be articulated in the same way from earliest times to latest times in almost every environment (e.g., *yamīnu > *yāmīn [> יָמָזין" "right hand" and *katūbu > *kātūb [> בָּתוּב] "written"). The PS/ PNWS */ā/, however, shifted in quality to */ō/ (e.g., *šāpiṭu > *šōpēṭ [> "judge"). This is called the Canaanite Shift and is described in greater detail below. Even here, the */ō/ that is the result of the Canaanite Shift is very stable; it does not change in length or further alter in its quality (e.g., *šōpəṭīm [> שׁבָּמִים).

The historical short vowels also evidence stability, but primarily in just one environment. In closed unaccented syllables, the short vowels generally did not change. Short */i/ remained */i/:

- *hiţtīma > *hişsīm (> הִצִּים) "arrows"
- *sipriyya > *siprī (> סְפָרִי) "my book"
- *dimʿatu > *dimʿā (> דְמַעָה) "tears."

Short */a/ remained */a/:

- *'ammīma > *'ammīm (> עַמִים) "peoples"
- *malkatu > *malkā (> מַלְבָה) "queen."

Short */u/ remained */u/ before geminated consonants:

- *huqqīma > huqqīm (> חָקִים) "statutes"
- *muṣṣalu > *muṣṣāl (> מָצָל) "one torn out" (hoph. part. נצל).

But, in a closed nontonic syllable followed by two different consonants, */u/ lowered to */o/:

- *hukmataha > *hokmātāh (> הָכְמָתָה) "her wisdom"
- *kulu ha"arśi > *kol hā'ārş (> جَלْ-הָאָָרָץ) "all the land."

In THT, this */o/ lowered further to /å/ (e.g., הְבְמְתָה = hָמֹkmåtåh).³⁷ There are some exceptions, but the regularity of these correspondences in closed, unaccented syllables should be noted.

^{37.} For more on this, see \$16 below, "*Qamets* in Tiberian Hebrew Tradition." See also Joshua Blau, *A Grammar of Biblical Hebrew*, 2nd ed., PLO 12 (Wiesbaden: Harrassowitz, 1993), 37.

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The historical short vowels evidence some consistency in their development based on the type of syllable in which they appear. Three types of syllable can be isolated: what are (in THT) the tonic syllable, the pretonic syllable, and those syllables that are both nontonic and nonpretonic.

- 1. In a tonic syllable, the historical short vowels usually lengthened and/ or lowered in articulation, in both open and closed syllables:³⁸
 - 1.1. */i/ vowel
 - 1.1.1. */i/ > */ē/
 - *zaqinu > *zāqēn (> إِجْ) "elder"
 - *yiqqaħinī > *yiqqāħēnī (> יָקָהַׁנִי) "he will take me"
 - 1.1.2. */i/ > /e/
 - **libbu* > **lebb* > *leb* (= לָב) "heart"
 - *kabida > *kabid > *kābed (ج ב ד) "it is heavy"
 - **yudabbiru > *yədabber* (> יַדָבֶר) "he will speak"
 - 1.1.3. */i/ > $/\epsilon/$
 - *qirbu > *qɛrb (= כֶּלֶרָב) "midst"
 - *<u>tibtu > *šibt > *šɛbt (</u> (שֶׁבֶת =) "dwelling" (inf. const. ישׁב)
 - *yāţibtu > *yōšibt > *yōšɛbt (יוֹשֶׁבָת <) "one dwelling"
 - 1.2. */a/ vowel: */a/ > */ \bar{a} /
 - *dabaru > *dābār (> דָבַר) "word"
 - *barakatu > *bərākā (> בָּרַכָה) "blessing"
 - 1.3. */u/ vowel
 - 1.3.1. */u/ > */ō/
 - *gadulu > *gādōl (גָדוֹל <) "great"
 - **šumuru > *šəmōr* (> שָׁמֹר) "guarding" (inf. const.)
 - 1.3.2. */u/ > */o/
 - $*^{c}uzzu > *^{c}ozz > coz (> ty)$ "strength"
 - *qudšu > *qodš (> לֶּדֶשׁ) "holiness"
 - *yašmuru > *yišmur > *yišmor (> יָשָׁמֹר) "he will guard"
 - *š(u)mur > *šəmor > (> שׁמֹר) "guard!" (impv.).³⁹

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^{38.} Lowering occurs in the case of an */i/ that becomes */e/ and a */u/ that becomes */o/.

^{39.} Note also the verbs of other conjugations: *piel *baqqiša > *biqqeš* (> בָּקַשׁ) "he sought"; **yubaqqišu > *yəbaqqeš* (יְבָקָשׁ) "he will seek"; *hiphil *hapqida > *hipqīd* (יְבָקִיד <) "he appointed"; **yapqidu > *yapqīd* (> בָּקִיד) "he will appoint"; **yapqid > *yapqid (בָּקִיד*) "he will appoint"; **yapqid > *yapqed* (> בָּקִיד) "may he appoint."

One frequent exception is evident in the forms of *qåțal* verbs where the /a/ vowel did not lengthen:

- *šamara > *šāmar (> שָׁמַר) "he guarded"
- *šamarta > *šāmartā (> שָׁמַרְהָּ) "you guarded."
- 2. In an open pretonic syllable, short */i/ and */a/ lengthened to */ē/ and */ā/:

2.1. */i/ > */ \bar{e} /

- **libabu* > **lēbāb* (> לֵבָב) "heart"
- *kabidīma > *kəbēdīm (> בָּבָדִים) "heavy"
- *hibīna > *hēbīn (> הַבִין) "he understood" (hiphil qåtal בין

2.2. */a/ > */ā/

- *dabaru > *dābār (> דָבָר) "word"
- *dabarīma > *dəbārīm (> דָבָרִים) "words"
- *dabarahu > *dabarō > *dəbārō (> דָבָרוֹ) "his word"
- *barakatu > *bərākā (> בָּרָכָה) "blessing"
- *barakatiyya > *barakatī > *barkātī (> בְּרְכָתִי) "my blessing"
- *šamara > *šamar > *šāmar (> שְׁמַר) "he guarded")
- *šamarta > *šāmartā (> שָׁמַרָהַ) "you guarded"
- *šamarti > *šāmart (> שָׁמַרְהָ
- *šamartu > *šāmartī (> نْغِמْרِתَי
- **yaqūmu > *yaqūm > *yāqūm (> יָקוּם)* "he will arise"
- *yabīnu > *yabīn > *yābīn (> יָבִין) "he will understand"
- *laqaḥanī > *ləqāḥanī (> 'לָקַהַׁנִי') "he took me"
- *yiqqaḥinī > *yiqqāḥēnī (> 'יֵקֵהָׁנִי') "he will take me."40

In contrast to */i/ and */a/, historical short */u/ usually reduced in open pretonic syllables:

2.3. */u/ > */a/ or ø

- **bukuru > *bəkōr* (> בְּכֹר) "firstborn"
- *mutay > *mətē (< מְתֵי) "men of"
- *yašmurihu > *yišmərēhū (> יִשָּׁמְרָהוֹ) "he will guard him"
- *šumur > *šomōr (> שׁמֹר) "guarding"

^{40.} The above occur in open pretonic syllables. In closed pretonic syllables, the vowel must remain short (as is true for all closed, unaccented syllables), and the quality of the vowel is less likely to change (e.g., *šəmartɛm [> שָׁמָרַתָּם]).

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*šumurahu > *šomrō (> שָׁמְרוֹ) "his guarding."41

The primary exceptions to these tendencies occur where a short */i/ is preceded by a syllable that is closed or that contains a historical long vowel that does not reduce. In these cases, the /i/ reduces to *shewa* or elides:

- *šāpiţīma > *šōpiţīm > *šōpəţīm (> שֹׁפָטִים) "judges"
- *wayyittinihū > *wayyittənēhū (> וְיָתְגֵֹהוּ
- *wayyubaqqišihū > *waybaqšēhū (> וַיְבַקִשָּׁהוּ) "he sought him."

In other cases, the reduction of the pretonic vowel seems to be the result of the shifting place of stress in the verb.⁴² Note that the stem vowel in *qåțal* and *yiqtol* verb forms reduces or elides where the stem is followed by a single vowel morpheme (e.g., *- \bar{i} , *- \bar{a} , *- \bar{u}):

- *šamarat > *šāmarā > *šāmərā (> שָׁמְרָה) "she guarded"
- *šamarū > *šāmarū > *šāmərū (> שָׁמְרוֹ) "they guarded"
- **tittinīna > *tittinī > *tittənī* (אָתְנִי <) "you will give"
- *yašmurūna > *yišmurū > *yišmərū (> ישׁמְרוֹ) "they will guard"
- *yišlahūna > *yišlahū > *yišlahū (> ישׁלְחוֹ) "they will send"
- *yubaqqišūna > *yəbaqqišū > *yəbaqšū (> יָבַקָשׁוֹ) "they will seek."

Also, the same unexpected reduction is found with the noun + second-person masculine singular suffix:

*dabaraka > *dəbārakā > *dəbārəkā (> דְבָרָדָ) "your word."

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^{41.} In general, this seems to reflect the tendency for any two historical high vowels (that is, /i/ and /u/) that appear in sequence to dissimilate, such that the first is no longer a high vowel (see W. Randall Garr, "Pretonic Vowels in Hebrew," *VT* 37 [1987]: 143, 150).

^{42.} See §5, "Lengthening of Pretonic */i/ and */a/ Vowels and the Place of Stress," below. Another general exception to the rule that pretonic /u/ reduces to *shewa* is where the short */u/ vowel has been reanalyzed as a historical long vowel (e.g., *gadulīma > *gadolīm > *gadolīm [striftica] (great").

- 3. In open syllables that are both nontonic and nonpretonic, the historical short vowels reduce to *shewa* or elide entirely:
 - **ginabīma > *'ănābīm (> עַנַרִים) "grapes"
 - *dabarīma > *dəbārīm (> דָבְרִים) "words"
 - **barakatiyya > *barakatī > *barkātī > (> בּרְכָתי*) "my blessing"⁴³
 - *laqaḥanī > *ləqāḥanī (> לְקָהַׁנִי) "he took me"
 - *buqarīma > *bəqārīm (> בְּקָרִים) "mornings"
 - *yubaqqišūna > *yubaqqišū > *yəbaqšū (> יָבַקִשׁוֹ) "they will seek."⁴⁴

When exactly each of these developments took place is hard to know, but they are all reflected in one way or another in the Secunda. It is possible that vowels lengthened and/or lowered in the First Temple era, though this is hard to demonstrate given the nature of the evidence.⁴⁵ The lengthening of */i/ and */a/ in pretonic syllables must have taken place at the latest by circa 250 BCE, since the LXX of Genesis attests long vowels in its transcriptions of names: *qidar > *qēdār > Kŋδap "Kedar" (cf. כָּרָר, note also circa 250 BCE, since the reduction of pretonic */u/ is presupposed

^{43.} In cases where two nontonic/nonpretonic open syllables both contain a short vowel, as in **barakatiyya*, the second of the two short vowels elides entirely and the first often shifts to /i/ in THT and in the Babylonian Hebrew (pronunciation) tradition (BHT).

^{44.} In closed unaccented syllables, however, the vowel must be short and is relatively stable, as explained above.

^{45.} As a comparison, note that in the first part of the first millennium BCE Phoenician (with which Hebrew shares many traits) experienced a shift from */a/ to / \bar{o} / (or /o/) in accented open syllables (found mostly in nouns, but not in verbs [except the 3ms suffix-conjugation form]), as evidenced, e.g., in the name "Ahirom" in cuneiform script *hi-ru-um-ma* (from Tiglath-Pileser III's *Annals* 27, l. 2) and the corresponding name in Greek ειρωμος (from Josephus, *C. Ap.* 1:105). If Phoenician experienced such a shift in nouns (but not verbs) in the era 1000–500 BCE, then it is conceivable that Hebrew did too, though we assume a raising of /a/ to /o/ for Phoenician and a lowering of /i/ to /e/ and /u/ to /o/ for Hebrew. For the connection of the Hebrew and Phoenician evidence, see Garr, *Dialect Geography*, 34, who characterizes the similarity in terms of lengthening; for the examples, see Stanislav Segert, *A Grammar of Phoenician and Punic* (Munich: Beck, 1976), 74 and Jo Ann Hackett, "Phoenician," *CEWAL*, 371, who notes the Phoenician vowel as short /o/.

^{46.} Blau, *Phonology and Morphology*, 124. Blau (128) suggests this emerged in the Second Temple era as a means of distinguishing Hebrew from Aramaic (where pretonic vowels in open syllables reduce); for more description, see ibid., 123–32.

in some words in the Secunda (e.g., **zukur* > $\zeta \chi o \rho$ "remember!" Ps 89:48 [cf. יקר־]).⁴⁷ The reduction of short vowels in open nontonic/nonpretonic syllables to *shewa* is usually thought to have taken place sometime in the second half of the first millennium BCE.⁴⁸ The lack of clear evidence for vowel reduction in the first half of the first millennium BCE supports this.⁴⁹ The mixed evidence from the DSS, the Secunda, and Jerome suggests perhaps that short vowels were gradually lost over the course of the Second Temple era.

But the above rules and tendencies can help a student reproduce the proper vocalization and form of words. For *yish-me-'roo*, the vowel of "-*me-*" must be */ə/ since it is in an open pretonic syllable, where we expect a *shewa* and where we do not find (barring some exceptions) /ɛ/. The word *de-va-'reem* must reflect **da-bā-rīm* > דְּבָרִים and *de-va-'ro* must reflect **da-bā-rō* > דִבְרִים. That is, the "*de-*" must reflect a *shewa* since it is an open nontonic/nonpretonic syllable, where one finds only *shewa* and long vowels. The vowel of "-*va-*" must be */ā/ (>/å/) since it is in an open pretonic syllable, where we do not find */a/ and where we expect */ā/ (>

^{47.} Brønno, Studien, 46.

^{48.} See Sandra L. Gogel, *A Grammar of Epigraphic Hebrew*, RBS 23 (Atlanta: Scholars Press, 1998), 33; cf. T. Muraoka, *A Grammar of Qumran Aramaic*, ANESSupp 38 (Leuven: Peeters, 2011), 31–33.

^{49.} See §6 below, "Vowel Reduction."

^{50.} The mark ' precedes the accented syllable.

/å/). The following paragraphs will detail further the phonological developments outlined above.

3.4. Lengthening and Lowering of Vowels in Tonic Syllables

With respect to historical */i/ and */u/ vowels in tonic syllables, it seems that these short vowels sometimes lowered in their articulation but did not lengthen (i.e., */i/ > */e/, */i/ > / ϵ /, and */u/ > */o/).⁵¹ As implied by the Secunda, this phenomenon appears primarily in nouns where the short vowel is followed in its historical form by two word-final consonants, that is, in geminate nouns:

- **libbu* > **lebb* > λεβ (cf. (cf. בֹב) "heart" Ps 32:11
- $*^{c}uzzu > *^{c}ozz > o\zeta$ (cf. $\forall y$) "strength" Ps 30:8
- *maginnu > *magenn > μαγεν (cf. (מָגָן) "shield" Ps 18:31
- *ma^cuzzu > *ma^cozz > μαοζ (cf. τίμα) "stronghold" Ps 31:3

and in segolate nouns:

- *sitru > *setr > σεθρ (cf. מַׁמֶר) "secret" Ps 32:7
- *bukru > *bokr > βοκρ (cf. בֹקר) "morning" Ps 46:6.⁵²

In addition, the Septuagint evidences similar nouns with *epsilon: νεδερ* [cf. בָּלֵמֶק 'jar'' (1 Sam 1:24) and εμακ [cf. בְּלֵמֶק 'Emak'' or "valley" (Josh 13:19).⁵³ Contrast the realization of */i/ as /ē/ in words without geminated historical consonants in the Secunda:

- *' $ilu > *'\bar{e}l > \eta\lambda$ (cf. \Re) "God of" Ps 29:3
- *mahiratu > *məhērā > אַקאָרָאָם (cf. מְהֵרָה) "in haste" Ps 31:3
- *nikaru > *nēkār > vŋχap (cf. נֵכָר) "foreigner" Ps 18:46.54

^{51.} See the summary of correspondences between the vowels of the Secunda and those of THT in Brønno, *Studien*, 453–54.

^{52.} Examples are drawn from Brønno, *Studien*, 25 (note also ιεθεν), 120, 122, 144, 149, 175, 177.

^{53.} See Khan, "Sere," 140.

^{54.} The construct state of the noun does not seem to be a relevant factor; note the absolute form with the same vowel: $\alpha\eta\lambda$ vs. הָאָל "the God" Ps 18:31. The examples are again from Brønno, *Studien*, 59, 110, 155, 161. Short */u/ does not typically occur

The lowering of historical short vowels without lengthening also occurs regularly in finite verbal forms in context:

- *yittinu > *yitten > ובטטע (cf. יָהֵן) "he will give" Ps 18:33
- *yudabbiru > *yədabber > ιδαββερ (cf. יְדַבֵּר) "he will speak" Ps 49:4
- *'irdupu > *'erdop > ερδοφ (cf. אֶרְדוֹף) "I will pursue" Ps 18:38.⁵⁵

Participles and infinitives (being verbal adjectives and nouns) attest the vowels associated with nongeminate nouns and adjectives (i.e., $\bar{e}ta = /\bar{e}/$ and $\bar{o}mega = /\bar{o}/$):

- * 'āziru > * 'ōzēr > ωζηρ (cf. 'Ų' (view cf. 'view c
- *(wa)mušallimu > *(ū)məšallēm > ουσαλημ (cf. וּמְשַׁלֵם) "and one preserving" Ps 31:24
- *(*li*)muşu'i > *(*li*)mşō > λαμσω (cf. לָמְצָא) "to find" Ps 36:3.⁵⁶

In addition, finite verbal forms with pronominal object suffixes, attest lowering and lengthening in the tonic syllable:

*'imhuśihum > 'emhōşēm > 'emhōşēm > εμωσημ (cf. אֶמְקַצֵם)
 "I struck them" (Ps 18:39).⁵⁷

Although it might not appear obvious at first, the distribution of vowels in THT seems to confirm an earlier distinction wherein finite verbal forms

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as /ō/ in similar environments since it tends to reduce or elide (e.g., *bukur > $\beta \chi \omega \rho$ [cf. [בְּכוֹד] "firstborn" Ps 89:28 [Brønno, *Studien*, 161]). Note also the lengthening and lowering implied in the LXX: נָקָד for צָּקָד sheep-raiser" in 2 Kgs 3:4.

^{55.} Examples are drawn from Brønno, *Studien*, 25 (note also ιεθεν), 32, 71. Pausal forms show some variation, but frequently attest *ēta* and *ōmega* (see Khan, "Ṣere," 137–38). Note, e.g., pausal *yuḥallilūna > *yəḥallēlū > ιαλληλου (cf. יָחַלֵּלוֹ) "they will profane" Ps 89:32 (see Brønno, *Studien*, 71). In the MT, one finds a similar discrepancy between forms that seem to be linked with a following word or phrase and exhibit /ɛ/ (e.g., יְהָלֶל לוֹ, "he will speak to me" Hab 2:1; 'הָלֶך לוֹ, "being born to him" Gen 21:5) and corresponding forms with /ɛ/ where there sometimes is and sometimes is not a prosodic link with what follows.

^{56.} Brønno, Studien, 56, 59, 84.

^{57.} Brønno, *Studien*, 32. The theme vowel in the Secunda form agrees with that of the Aramaic cognate, *mhq*, as attested, e.g., in Jewish Palestinian Aramaic and Jewish Babylonian Aramaic (see *DJPA* and *DJBA*).

had short vowels in their stem and nonfinite forms had long vowels. Note, for example, the distinction between the finite *niphal* form נָאֶבָוֹ "he is faithful" and the participial form נָאֶבָוֹ "one who is faithful." The finite form implies a pre-Masoretic short */a/ and the participle a long */ā/. This implies an analogous distinction between finite forms and nonfinite forms, even in other conjugations (e.g., יָאָרָדוֹן < *yitten "he will give" vs. נָתו < *nōtēn "one giving"; and יִבוֹן < *'erdop "I will pursue" vs. יְתוֹן < *radōp "pursuing"). Furthermore, although we might at first assume that finite forms like יָתוֹן and */u/ vowels, where the stem vowel is /a/ in analogous yiqtol forms, the vowel that appears in THT is not *qamets*, but *patakh*: יִשִׁלָח will send." This implies that the *tsere* in יָתוֹן and the *holem* in יָתִיָּשׁׁרָ an earlier short /e/ and /o/, respectively.⁵⁸

Finally, a small group of words evidences the further lowering of */i/ to /ɛ/, especially where the historical */i/ is followed by two consonants in a row. In particular, this relates to some **qitl* nouns, feminine singular participles, and *qal* infinitives construct from I-*vav/yod* roots (and I-*nun* roots): **qirbu* > **qerb* (= (أَنَا اللَّٰ الللَّٰ اللَّٰ اللَّلَٰ اللَّذَ اللَّاللَٰ اللَّٰ اللَّٰ اللَّٰ اللَّٰ اللَّٰ اللَّٰ اللَّٰ اللَٰ اللَّٰ اللَٰ اللَّٰ اللَّٰ اللَّٰ الْ

^{58.} There is also some limited orthographic evidence that the historical /i/ vowel in finite forms was realized in a manner different from how it was realized in nonfinite forms. For example, *piel* finite forms of III-*khet* roots have a *patakh* in context (e.g., קישָׁלֵי "he will send away" Exod 3:20), reflecting an earlier short vowel, but have a *tsere* in pause (ישָׁלֵח) Isa 45:13), where we would expect an earlier long vowel. On the other hand, the same vowel in the participle and infinitives is often written both in context and in pause with a *tsere*, implying an earlier long vowel. Note especially the contextual forms: ישָׁלֵח "one sending away" (Exod 8:17); inf. cstr.: ישָׁלֵח "making sacrifices" (1 Kgs 12:32); inf. abs.: ישָׁלֵח "sending away" (1 Kgs 11:22). The exception here is the infinitive construct of ישׁלָח שׁ which has a *patakh* (perhaps to distinguish it from the infinitive absolute [?]). But, the other seven contextual forms of the *piel* inf. const. of III-*khet* roots have *tsere*. If the finite and nonfinite verbal forms had the same vowel length in the earlier Second Temple era, then we would expect a common realization of the last stem vowel in all the forms.

^{59.} Although it is difficult to explain all the exceptions and although there are probably multiple causes, one explanation for this vowel in **qitl* nouns involves the quality of the second root consonant. If the second root consonant of a monosyllabic word is relatively sonorous (i.e., /l/, /m/, /n/, /r/), then the historical */i/ became /ɛ/ (e.g., **qirbu* > **qerb* [> לָבֶר (e.g., **qirbu* > **qerb* [> לַבָּר (e.g., **qirbu* > **qerb* [> לַבָּר (e.g., **qirbu* > **qerb* (became *to Samuel Iwry*, ed. Ann Kort and Samuel Morschauser (Winona Lake, IN: Eisenbrauns, 1985), 139–40. Other nouns, like Toww" (a byform

such vowels are represented with a *qamets* in THT (e.g., יוֹשֶׁבֶת "one dwelling" Josh 2:15 and שֶׁבָת "to dwell" Isa 40:22).⁶⁰ There is no clear evidence of the shift */i/ to /ɛ/ in such forms in the Secunda.⁶¹

A similar shift of historical */i/ to */ɛ/ and then to THT /a/ may be reflected in other types of nouns and especially in verbs like the *piel qåṭal*: **dabbirta* > **dibbɛrtā* (> *dibbartå* = דָּבַרָתָּ) "you spoke" (see §8 below, "'Phillipi's Law' and Similar Changes").

The pronominal affixes for verbs הָּם - and וָּהָ- and for nouns - בֶּם - and וֹהָ- and for nouns - בֶּם - and imarking the second-person masculine and feminine plural, reflect a similar lowering from */i/ to /ɛ/, though the context of this shift is different from that of the above words (i.e., it does not appear in a syllable followed by two consonants).

The relevance of the above comparisons with the Secunda, of course, presumes some correspondence between the Hebrew implied by this transcription and that which led to THT. It is also conceivable that these traditions reflect entirely independent vocalic developments. For the present work, however, I assume some connection between the Hebrew of the Secunda and the tradition that led to THT. I primarily indicate the historical */i/ and */u/ vowels in geminate and segolate nouns as */e/ and */o/ respectively (i.e., without lengthening). Because we focus on the contextual forms of words from the late Second Temple era, I indicate the historical */i/ and */u/ vowels in the stem of finite verbal forms in the same manner (i.e., as */e/ and */o/).

3.5. Lengthening of Pretonic */i/ and */a/ and the Place of Stress

Historical short vowels in open pretonic syllables often lengthened in BH. It is especially the case that */a/ lengthened to $*/\bar{a}/$ (before shifting to /a/ in THT). The historical */i/ vowel somewhat less frequently lengthened (and

of גָּדֶר), formed on analogy to words like גָּדֶר). In still other cases, a given word might have had byforms from earliest times (e.g., **dark* vs. **dirk* > דֶּרֶדְ "path" [see Huehnergard, "Biblical Hebrew Nominal Patterns," 39]).

^{60.} In some cases, **qitl* segolates reveal a *qamets* in pause in the first syllable, as with מָׁתָר "hiding place" vs. מָׁתָר in context.

^{61.} Note some of the limited evidence from the Secunda that seems to suggest the realization of an /a/ vowel: νεεμαναθ (cf. נָאֱמֶׁנֶת) "something trustworthy/enduring" Ps 89:19; σαθιβηκι (cf. שָׁאֵתִי בְחֵיקִי) "my carrying in my breast" Ps 89:51; βρεδεθι (cf. בָּאֲמָנִי הַחֵיקִי) "in my descent" Ps 30:10 (for the examples, see Brønno, Studien, 56, 107).

lowered) to */ē/, while */u/ often did not lengthen, but instead reduced to *shewa* (see §6, "Vowel Reduction"). These tendencies have been remarked on above.

In the inflection of the *qåtal* verb, most forms exhibit the pretonic lengthening of the first */a/ vowel: *šamar > *šāmar (> שׁמר). Where this historical /a/ vowel is in the propretonic syllable, it reduces to shewa: *šamartumu > *šəmartem (> שמרתם). However, in the third-person feminine singular and third-person common plural, it appears that the pretonic /a/ vowel is reduced to *shewa* and the propretonic */a/ is lengthened: *šāmarā > *šāmərā (שׁמָרה) and *šāmarū > *šāmərū (שׁמָרוּ). These inconsistencies are likely due to the shifting place of the stress in the history of Hebrew verbs.⁶² When pretonic vowel lengthening was taking place, there was a full vowel in the second syllable and this penultimate syllable was accented, resulting in the pretonic lengthening of the first stem vowel (**šamarat* > **šā*[']*marā* and **šamarū* > **šā*[']*marū*). The penultimate accent is reflected in the pausal forms of these words (e.g., שׁמֹרוֹ Num 9:23). Only later (presumably close to the end of the Second Temple era) did the accent then shift to the last syllable, resulting in the reduction of the second */a/ vowel (*sāmə'rā [> שָׁמְרָה], and *sāmə'rū [> שָׁמְרָה]).63 In the Secunda, the transcription consistently reflects the reduction of these short vowels to zero (e.g., מססמ [cf. עַשָּׁשָה] "becomes dark" Ps 31:10 and ταμνου [cf. טמנו "they hid" Ps 31:5).64 Although the orthography of the

^{62.} Geoffrey Khan, "Pretonic Lengthening: Biblical Hebrew," EHLL 3:226.

^{63.} Blau (*Phonology and Morphology*, 128) argues that what began as *ša-'marat shifted to *ša-'ma-rā (due to loss of taw) and then to *šā-'ma-rā (due to pretonic lengthening in Second Temple times) and then to *šā-mə-'rā (with the shift of accent to the final syllable sometime later, when pretonic vowels no longer were lengthened but reduced, as in Aramaic). See his long description of stress and syllable structure in ibid., 123–29; and the description of the sequence of these changes at pp. 144–48. Alternatively, one may explain these forms by suggesting that the accent on third-person forms was initially on the first syllable; the long vowel of the first syllable (which is assumed from the THT *qamets*) is due to tonic lengthening/lowering (see Bergsträsser, *Hebriäsche Grammatik*, 116–18). One can imagine the development: *¹šā-ma-rā (due to vowel reduction of nontonic/nonpretonic vowels) > *šā-mə-'rā (shift in stress, akin to the shift in stress presumed for *wəqåțal* forms that show no vowel reduction, like <code>j "and observe" Deut 6:3).</code>

^{64.} See Brønno, Studien, 19 and 22. Exceptions are only found in II-guttural roots where the MT contains a *khatef* vowel: ρααθα [cf. [רְאֲחָה] "she saw" Ps 35:21; μααδου

DSS does not usually allow one to discern the theme vowel of *qåṭal* forms, the vowel is rarely indicated with a *mater*, implying its preservation and a penultimate accent for the verb (e.g., יכולו, yākōlū [cf. יָבְלוּ] "they did [not] prevail" 11Q5 [11QPs^a] at Ps 129:2).⁶⁵

It seems likely that other verbal forms were similarly accented on their penultimate syllable and only subsequently did the theme vowel reduce when accent shifted from the penultimate to the final (i.e., ultimate) syllable:

- *yašmurūna > *yišmurū > *yišmərū (> יָשָׁמְרוּ) "they will guard"
- *yišlahūna > *yišlahū > *yišlahū (> יָשָׁלְחוֹ) "they will send"
- **tittinīna > *tittinī > *tittənī (> י*קרני) "you will give"
- *yubaqqišūna > *yubaqqišū > *yəbaqšū (> יְבַקָשׁוֹ) "they will seek."66

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[[]cf. מְעָדוֹ "it brings down" Ps 18:37; נְנְחֲתָה [נְנְחֲתָה] "it brings down" Ps 18:35 (ibid., 19, 22, 64).

^{65.} See also the plene writing of the *qåțal* of the same verb in a fragmentary context in 4Q385 6a II + 6c, 9 and 4Q401 14 II, 4.

^{66.} Some of these forms, of course, may also be interpreted as reflecting the reduction of pretonic */i/ where the propretonic vowel cannot reduce (as in שׁׁפָּטִים "judges") as well as reflecting the tendency for pretonic /u/ to reduce. Nevertheless, since the historical */a/ vowel also reduces in this same position (e.g., ישָׁלְחוֹ, "they will send"), it seems more likely that the reduction of the pretonic theme vowel is due to the movement of stress/accent from the penultimate to the ultimate (i.e., last) syllable.

^{67.} See Brønno, Studien, 35. Note also $*yir^cas\bar{u} > iepa\sigmaoo (cf. יִרְשָׁשׁוּ)$ "they will shake" Ps 46:4.

^{68.} See Brønno, *Studien*, 35 and Yuditsky, "Hebrew in Greek and Latin Transcriptions," 2:67. Presumably the elision of the vowel has led to the emergence of an epenthetic vowel before the second root consonant in other forms: e.g., *(*wa*)*yiśmahūna* >

vowels (discussed in the following subsection), in the Hebrew of the Second Temple era, there seems to have been some variation in where such verbal forms were accented.

In the inflection of nouns, one also finds incongruity in the singular noun with second-person masculine singular suffix. In all the other forms of the noun (both masc. and fem.) that bear a nonheavy pronominal suffix, the pretonic vowel is lengthened and the propretonic is reduced according to the tendencies outlined above: **dabarik* > **dabārēk* (> דְּבָרֵך) "your word." The pausal form of the singular noun with second-person masculine singular suffix also exhibits the expected correspondences between syllables and vowels (i.e., **dabaraka* > **dabārakā* > *dbå*'*rekå* = \exists בְּבָרֵך word"). In the contextual form, however, the propretonic vowel seems to have been lengthened and the pretonic reduced to *shewa*: **dabāra*'*kā* (> \exists בְּבָרֶך your word" and *ʿ*ăṣāta*'*kā* (> בָּבָרָך) "your counsel." This also can be explained as due to the shifting place of stress within the word. The stress must have been over the penultimate syllable when pretonic vowels were lengthening and then the stress shifted and the suffix altered its form, such that what was once a penultimate short /a/ reduced to *shewa*:

- *dabaraka > *dəbā'rakā > *dəbārə'kā (> דָבַרָדָ)
- *'iṯataka > *'ăṣā'takā > *'ăṣātə'kā (> עַצָּתָדָ).⁶⁹

3.6. Vowel Reduction

Usually, vowel reduction is learned as a phenomenon affecting *qamets* and *tsere* vowels in the transformation of singular nouns into plurals (or from absolute forms into construct forms or forms with suffixes), as if a *qamets* of an absolute noun reduced to *shewa* in the plural (or construct or with suffixes). But, this is not how vowel reduction is described from a historical perspective. Vowel reduction affected pronunciation of Hebrew vowels long before */ā/ shifted to /å/ (*qamets*). In this context, it is not correct to say that the *qamets* reduces; instead, the vowel that reduces is the histori-

^{*(}wə)yisməhū [> *(wə)yismhū] > *(wə)yisimhū > נכסבעסט and סטבובסמעסט "(and) they will rejoice" (Ps 35:24, 27 [cf. ווְיָשָׁמְחוּ]).

^{69.} It is interesting to note that the Secunda reflects an /a/ vowel before the suffixed *kaph* and usually no /a/ vowel after the *kaph*. This is reminiscent of the Aramaic 2ms pronominal suffix. For more on this, see ch. 4 §5, "Peculiarities of Some Possessive Suffixes."

cal short vowel that in other positions would eventually lengthen and then become *qamets*. For example, the singular form of "word" developed from a form with two short vowels in its stem, **dabaru*, into one with two long vowels, **dābār*, before becoming $dabar = \neg \neg \neg$. The plural developed from a similar base: **dabarīma*, though in this form the first /a/ vowel did not lengthen into /ā/, but it instead reduced to *shewa*, resulting eventually in the form **dabārīm* and then *dbårim* = ¬¬¬.

Moreover, when we speak of vowel reduction, we speak of one of two phenomena. The full, short vowel may reduce to a *shewa* (that is, a muttered vowel). Or, the full short vowel reduces to nothing; that is, the full vowel elides.

In general, */i/, */a/, and */u/ became muttered vowels (i.e., *shewa*) or elided entirely in open syllables that were both nontonic and nonpretonic. A historical */i/ reduced to *shewa* or elided in an open pretonic syllable when the vowel in the preceding syllable could not reduce (either because it was historically long or because it was in a closed syllable; e.g., **šāpiţīma* > **šōpiţīm* > **šōpaţīm* [> שָׁפָּטִים] "judges"; **mazbiḥāt* > **mizbaḥōt* [> חַיָּבָרוֹת] "altar").⁷⁰ In addition, the */u/ vowel often reduced to *shewa* in open pretonic syllables (e.g., **bukur* > **bakōr* [> בָּבָרֹר] "firstborn" and **yašmurihū* > **yišmarēhū* [> יַשָׁמֵרֶׁהוּ [> יַשָׁמֵרָּהוּ

It might be pointed out here that where */u/ reduces, it is often (though not always) followed by another high vowel, an /i/- or /u/-class vowel. It seems that often there was a tendency to dissimilate two high vowels in a row, that is, to make two high vowels dissimilar to each other. For example, in cases where we presume the sequence of historical vowels **u*-*u*, we often find instead **a*- \bar{o} (e.g., $\forall acrior$).⁷¹

^{70.} Note also *'awwirīm > *'iwrīm (>עָוְרִים) "blind"; and *passiḥīm > *pisḥīm (> סָחָרִים) "limping"; and the piel inf. const. plus suffix, as in *dabbiraha > *dabbərāh (> דָבְרָה) "her speaking." The loss of gemination in some forms of the plural is described below in \$15, "Loss of Gemination and Shewa."

^{71.} See ch. 4 §11, "Nouns with Three Root Consonants, One of Which Is Geminated" and Garr, "Pretonic Vowels in Hebrew," 143, 150. Several idiosyncracies and apparent anomalies should be mentioned. The *niphal* masc. pl. ptc. of מצא does not attest pretonic lengthening in most of its occurrences: הַנְמְצָאִים "those found" (vs. once as הַנְמְצָאִים in Ezra 8:25, in pause). Garr (ibid., 153) notes that the participle with unexpected reduction of the pretonic vowel always precedes some phrase (like a prepositional phrase) to which it is closely associated. He also cites the cases of "those prophesying."

Where short */a/ or */i/ vowels occurred in two open syllables sideby-side, both syllables being nontonic and nonpretonic, then the second short vowel elided:

- *malakaykum > *malakēkim > *malkēkem (> מַלְבֵיבֶם) "your kings" (Jer 44:21)
- *šibaţaykum > *šibaţēkim > *šibţēkem (> שָׁבְטֵיבֶם) "your tribes" (passim).

In the cases where */a/ was the vowel that remained, it often shifted to /i/ in THT (see the following subsection for more on this):

- *dabaray > *dabrē (דְּבְרֵי <) "words of" (passim)
- **barakat > *barkat (> בְרְכַת)* "blessing of" (passim).

Finally, there are also the cases where what seems to be the pretonic vowel reduces where we do not expect such reduction: **šāmarū* > **šāmarū* (> שָׁמְרוּ) "they guarded"; **yišlaḥū* > **yišlaḥū* (> יִשָּׁמְרוּ) "they will send"; and **dabā'rakā* > **dabāra'kā* (> דְּבְרְדָ). As explained in the preceding section, these likely reflect the changing place of stress (near the close of the Second Temple era).

As stated above (in §3, "Development of Individual Vowels"), there is no clear evidence for vowel reduction in the First Temple era.⁷² Furthermore, we should admit that short vowels in open, nontonic and nonpretonic syllables may have initially reduced to a muttered vowel and then, at a later time, been entirely lost.⁷³ Also, some variation in pronunciation (between a short vowel, a muttered vowel, and no vowel) seems implied by a variation of spelling in the DSS, in the Secunda, and in the MT itself.⁷⁴ The presence

^{72.} Cuneiform inscriptions from the First Temple era are difficult to interpret (see Alan Millard, "Transcriptions into Cuneiform," *EHLL* 3:838–47). Still Michael D. Coogan (*West Semitic Personal Names in the Murašû Documents*, HSM 7 [Missoula, MT: Scholars Press, 1976], 107) concludes that the Akkadian Murašû documents do not reveal any evidence for vowel reduction. See also Gianto, "Archaic Biblical Hebrew," 1:22.

^{73.} Aramaic may have lost short vowels gradually over the same span of time; see Stephen A. Kaufman, "On Vowel Reduction in Aramaic," *JAOS* 104 (1984): 87–95.

^{74.} Notice, as a comparison, that contemporary English words can be pronounced with similar variation, as with "family," which the *OED* transcribes (for the USA pronunciation): [fæm(ϑ)li], presuming a pronunciation with an elided vowel (*fam-ly*) or a

of a short vowel in certain places presumes it was accented (e.g., **yišlahū* and **yišmurū* [> ישׁמְרוֹ "they will guard"); in this way, the variation in spelling also reflects a variation in the place of accent (see 5, "Lengthening of Pretonic */i/ and */a/ Vowels and the Place of Stress," above).

In the DSS, where we suppose the sequence full vowel + aleph + $/\bar{o}/(or /\bar{u}/)$ (e.g., מאור $m\bar{a}'\bar{o}r$ "light"), the aleph is almost never lost.⁷⁵ But in cases where the aleph is preceded by what we would expect to be a reduced short vowel + aleph + $/\bar{o}/(or /\bar{u}/)$, the aleph (and preceding *shewa*) are occasionally elided (e.g., $\bar{u}\bar{a},\bar{a}$ "and contempt" [4Q175 25] for אונאצה $*\bar{u}n\bar{a};\bar{a};$ and $\Gamma \bar{u}\bar{v}\bar{a}$ "what was seen" [11Q19 LXVI, 9] for אונאצה * $r\bar{a}'\bar{u}\bar{v}\bar{a}$.⁷⁶ This implies that all historical short vowels in open propretonic syllables likely reduced, even where the aleph is preserved.

Whether short vowels in such syllables sometimes reduced to a muttered vowel or uniformly elided is another question. I assume that the vowels usually became muttered vowels and only in certain cases elided. This is based on the tendency toward unconventional (i.e., non-Masoretic) phonetic spelling in the DSS on the one hand, and the consistent (though not universal) preservation of *aleph* before historical short vowels in propretonic syllables on the other. Examples of misspellings such as a constrained of the syllables of the other.

muttered vowel (*fa-mə-ly*), though it also can be articulated with a full vowel (*fa-mi-ly*) when pronounced slowly and emphatically.

^{75.} See Reymond, Qumran Hebrew, 137-38.

^{76.} In the second example, the vowel reduction and subsequent elision of the muttered vowel + aleph reflect the word's inflection. The cases where one finds the elision of the historical short vowel as well as the *aleph* are relatively uncommon (e.g., רובן, *rūbēn* "Reuben" in 4Q221 4, 9 vs. THT רובן). One exception is שרית šērīt "remainder" (vs. THT שארית), which occurs in about ten of its forty occurrences without aleph (e.g., 1QS V, 13). Conceivably, the latter word (and others phonetically similar to it: באר "flesh" and באר "well") had lost the *aleph* in the vernacular already by the time of the scrolls (cf. שָׁרִית "remainder" in 1 Chr 12:39; משרו miššērō "from his flesh" 4Q386 1 II, 4; שיר šēr "flesh of" 4Q477 2 II, 8; בירות bērōt "wells" 11Q20 XII, 25). A similar loss of a muttered vowel + aleph in THT is ראשים "heads" for an expected ראָשים*; in the DSS, however, there is only one case of the plural absolute spelled without *aleph* (4Q171 1 + 3-4 III, 5). (The *aleph* is elided elsewhere only in the const. pl., e.g., רשי "heads of" 4Q328 1, 1.) See Reymond, Qumran Hebrew, 79; Blau, Phonology and Morphology, 55; Blau, On Pseudo-Corrections, 28-29. Other examples may reflect other phenomena: תקרוא *tiqqārū* "you will be called" (1QIsa^a at Isa 61:6) for the pausal form in MT תקראו may reflect confusion of III-vav/yod and III-aleph roots, a phenomenon among the DSS especially prominent in 1QIsa^a (see Reymond, *Oumran Hebrew*, 189-90).

uncommon. Much more common is to find the *aleph* preserved, as in the plural form מאורות (= məʾõrōt) "lights."⁷⁷

On the other hand, among the DSS, spellings of *yiqtol* forms with object suffixes (e.g., **yišmorkā* > יָשָׁמָרָדָּ "he will guard you") sometimes imply the presence of the historical stem vowel and sometimes imply its elision. Where a *mater vav* appears after the second root consonant, we assume the preservation of the historical vowel as in THT (e.g., *watrcan or yišmorkā* or *yišmorkā* "he will guard you" 1QS II, 3). In other cases, however, a *mater vav* appears after the first root consonant and we assume the elision of the historical vowel and the secondary emergence of an epenthetic vowel (e.g., *watrcan or yašomrakā* or *yašomrakā* "he will guard you" 11Q5 [11QPs^a] at Ps 121:7 for MT (...)?

Contradictory evidence is also found in the Secunda. The regular elision of short vowels is implied in many spellings (e.g., ταμνου [cf. [טָמְנוּ "Hey hid" Ps 31:5; ασσωμριμ [cf. [הַשׁמְרִים] "those who guard/give attention to" Ps 31:7; βνη [cf. [בְּנַי Sons of "Ps 29:1; οιβαυ [cf. [אָוֹיְבָיוּ] "his enemies" Ps 89:43).⁷⁹ Nevertheless, in a substantial number of cases, where we would expect to find an elided vowel we find a full vowel (e.g., ιεφφολου [cf. [יִפְּלוּ, 18:39; βανη [cf. [בַּני] "sons of" Ps 18:46).⁸⁰ Among these, at least some *epsilon* and *iōta* vowels may mark a muttered vowel, as in:

- οϊεβαϊ (cf. אוֹיָבֵי) "my enemies" (Ps 18:38)
- σεμω (cf. שָׁמוֹ) "his name" (Ps 29:2)
- γεδουδ (cf. [LTI]) "troop" (Ps 18:30)
- λεβουσι (cf. לְבוֹשׁי) "my clothing" (Ps 35:13)
- עוסטטג (cf. כסוס) "like a horse" (Ps 32:9).⁸¹

^{77.} Reymond, *Qumran Hebrew*, 51–56, 77–87. Neither for מאורות nor for many other similar words do we see frequent unconventional spellings (i.e., * $m\bar{o}r\bar{o}t > \alpha$ אוארות or > מוארות*), which we might otherwise expect based on the unconventional spellings of other words (see the preceding footnote).

^{78.} See ibid., 209-21 for a review of the evidence and possible explanations.

^{79.} Yuditsky, "Transcription into Greek and Latin Script," 3:807. Yuditsky (808) writes that "Short vowel elision is quite common in the Hexapla." See also Khan, "Shewa," 3:551.

^{80.} According to Brønno (*Studien*, 322–41), in 184 out of 270 examples vocal *shewa* in the MT corresponds with the absence of a vowel in the Secunda. See also Alexey Yuditsky, "Reduced Vowels in the Transcriptions from Hebrew in the Hexapla" (Hebrew), *Leshonenu* 67 (2005): 121–41.

^{81.} See Khan, "Shewa," 3:550–51. Khan (550) writes: "Both [epsilon and iōta] seem

Even the MT provides contradicting evidence. Where we usually find an elided vowel (e.g., שָׁמְחֵי "those rejoicing of [mind]" Isa 24:7) we sometimes find a full vowel (e.g., שְׁמְחֵי "those rejoicing at [my calamity]" Ps 35:26). Alternatively, where we expect an elided vowel (e.g., קַלְלָת [< *qalalatu] "curse of [God" Deut 21:23) sometimes we find a muttered vowel (e.g., הָלֶלָת "curse of [Jotham]" Judg 9:57).⁸²

Strangely, one of the latest pieces of evidence, the transcriptions and descriptions from Jerome, give no consistent evidence for muttered vowels or elided vowels.⁸³ In the version of Biblical Hebrew reflected in Jerome's transcriptions, short vowels are generally retained. This, at the least, would seem to reflect the fact that the reduction of vowels did not follow a clean, linear path from full vowel to zero. The variation in the place of stress and in vowel reduction may reflect not only different dialects or pronunciation traditions, but also different registers spoken by single individuals.

3.7. "Attenuation" and Similar Changes

A relatively common shift in vowel quality is that of */a/ to /i/ (in what is sometimes referred to as "attenuation").⁸⁴ Most often this takes place where historical */a/ is followed by two consonants in a row. The shift */a/ to */i/ occurred in the first syllable of *qåṭal piel* verbs and *qåṭal hiphil* verbs, as well as in some nouns:

to reflect a realization close to that of the Palestinian and Sephardic *shewa*"; he suggests that the *alpha* that marks a historical /a/ vowel where THT has a *shewa* may be an archaism. Brønno (*Studien*, 327) notes various other factors, including the absence of a vowel in the Secunda, even where we really need one in order to pronounce the form, implying that not all vowels were transcribed. On the other hand, Yuditsky believes that "short vowels have either preserved their original quality or been elided" ("Transcription into Greek and Latin Script," 3:807); cf. Yuditsky, "Reduced Vowels," 121–41, where he offers more thorough explanations for his thesis.

^{82.} Furthermore, note the presence of a muttered vowel (derived from an earlier short vowel) in other traditions of Biblical Hebrew, like that presumed for (Proto-) Samaritan: **mal'ak* > **måla'ak* > **måla'ak* > **måla'ak* = [*må'lå'k*] "angel" (cf. THT מָלָאָד). See Florentin, "Samaritan Tradition," 1:123.

^{83.} Yuditsky, "Transcription into Greek and Latin Script," 3:807; Khan, "Shewa," 3:551; Harviainen, "Transcription into Latin Script," 3:823.

^{84.} Aaron Koller ("Attenuation," *EHLL* 1:231–32) notes that this is not a true "law" since there are too many exceptions, but rather "the results of disparate processes."

- *dabbira > *dibber (> דְּבֵר in pause) "he spoke"
- *hašlika > *hišlīk (> הָשָׁלִיךָ) "he threw"
- * *awwiru* > * *iwwēr* (> עור) "blind."

Since this shift is attested widely in different traditions, it is assumed to be a relatively early phenomenon.⁸⁵ In all the cases above where an initial */a/ shifted to /i/, the second syllable of the word contained an etymological */i/ vowel. This shift may be due to the initial */a/ assimilating in pronunciation to the following */i/. In addition, perhaps this development was encouraged by the fact that it helped to disambiguate otherwise similar forms in the *piel* and *hiphil*, like the infinitive construct (and in the case of the *piel*, the ms impv. and inf. abs.).

Another early shift of */a/ to /i/ occurs in the prefix of *qal* short-*yiqtol*, *wayyiqtol*, and *yiqtol* forms. The early PNWS forms **yiqtal*, **yaqtul*, and **yaqtil* are characterized by vowels that are distinct between the prefix and stem.⁸⁶ At some point early in the history of Hebrew or of its ancestor, the vowel of the prefix in **yaqtul* and **yaqtil* forms shifted to /i/: **yiqtul* and **yiqtil*, perhaps on analogy to **yiqtal*.⁸⁷ Weak roots still sometimes evidence this /a/ vowel, as with **yaqum* > **yāqom* > "yāqom > "yāqūmu > *yāqūm > "yāqūm > "yāqum > "yāqūm > "yāqum > "yāqum > "yāqum > "yāqum > "yāqum > "yāqum > "yāgum >

Sometimes similar developments of */a/ > /i/ are associated primarily with THT, and appear to have occurred relatively late in time, emerging perhaps in the mid-first millennium CE. For example, the shift of */a/ > /i/ in the prefix component to *mem*-preformative nouns (e.g., **madbaru* > **madbār* > *midbår* [= מִדְבָּר] "desert") seems at least superficially simi-

^{85.} The same shift in vowel (/a/ > /i/) is found in the same contexts (*piel, hiphil* verbs, etc.) in other pronunciation traditions (e.g., Babylonian and Palestinian), as well as in the Secunda, where it is represented by *epsilon*; note the *piel* ελλελθ [cf. הְסַלֵּרָהָ] "you profaned" (Ps 89:40); the *hiphil*: εσθερθα [cf. הְסַלֵּרָהָ] "you hid" (Ps 30:8) (the examples are from Yuditsky, "Hebrew and Greek in Latin Transcriptions," 1:111). It is even implied in the orthography of the DSS (e.g., *הראתי "I showed" in 4Q158 4, 6, if this is not a case of metathesis for הראיתי "See Reymond, *Qumran Hebrew*, 39–40.

^{86.} This is the Barth-Ginsberg Law; see Rebecca Hasselbach, "Barth-Ginsberg Law," *EHLL* 1:258–59.

^{87.} See also, e.g., Blau, *Phonology and Morphology*, 221. The identical shift happened in *wayyiqtol* and *yiqtol* forms.

^{88.} Note also I-guttural roots like עשה that attest /a/ in the prefix: עשה "let him do."

Another rather late development is the shift of */a/ to /i/ in cases where the original */a/ was followed in the next syllable by an */a/ that elides (e.g., **dabaray* > **dabrē* [> *dibre* = דְּבְרֵי] "words of" passim; **barakat* > **barkat* [> *birkat* = בְרַבַת "blessing of").⁹¹ The evidence is limited from the Secunda, but may reflect the preservation of /a/ in this context (i.e., $\delta \alpha \beta \rho \gamma$ "words of" Ps 35:20; cf. (דְּבְרֵי).⁹²

Similarly, the shift of */a/ to /ε/ (as in *malku > *malk > mɛlk [= מָּלֶד] "king") is peculiar to THT.⁹³ In BHT and the Secunda, the vowel of these segolate nouns is usually /a/ (e.g., *gabr > γαβρ corresponding to žֶּבֶר

91. The reason words like **malkēkɛm* (> מִלְבִיכֶם) "your kings" preserve the /a/ vowel is due presumably to the influence of forms like מַלְבִי

92. See Brønno, Studien, 151. The feminine attests epsilon: βσελαθαχ corresponding to בְּצָרְקָתְדָ "in your righteousness" (Ps 31:2; ibid.), though this is likely a reflex of the preceding sibilant (see Yuditsky, "Transcription into Greek and Latin," 3:810) or (perhaps) the nonsonorous second root consonant (Huehnergard, "Biblical Hebrew Nominal Patterns," 39).

93. See Huehnergard, "Biblical Hebrew Nominal Patterns," 38–39; Lambdin, "Philippi's Law Reconsidered," 135–45. One assumes the same development for the second syllable of the byform of feminine *mem*-preformative nouns (used often as the construct form): **mamlaktu* > **mamlekt* (> מַמְלֶבֶת) "dominion of." By contrast, Joüon (§ 29e) suggests the development of the /ɛ/ of the stem in מָלֶד is due to assimilation to the epenthetic vowel: **malku* > **malɛk* > **mɛlɛk*. See also W. Randall Garr, "The *Seghol* and Segholation in Hebrew," *JNES* 48 (1989): 109–16.

^{89.} See, e.g., McCarter, "Hebrew," 329. He refers to the phenomenon as " $qatqat \rightarrow qitqat$ dissimilation."

^{90.} Brønno, *Studien*, 173. Note also *madbår* in the Samaritan Tradition (SP Exod 14:11; cf. THT מְדָבָר); *madbår* in the Old Babylonian Tradition (Deut 9:28; cf. THT מְדָבָר). For the examples, see Florentin, "Samaritan Tradition," 2:73; Heijmans, "Babylonian Tradition," *HBH* 2:91.

Ps 89:49).⁹⁴ A similar shift of */a/ to THT /ɛ/ is implied in a wide variety of other places. Note too the same shift in *hiphil* short-*yiqtol* and *wayyiqtol* forms from III-*vav/yod* roots: **tarb* > *terb* = גֿעָרָב (Ps 71:21) [*hiphil* רבה and **wayyarb* > *wayyerb* = גֿעָרָב (2 Sam 18:8) [*hiphil* רבה]. A related phonetic shift may also be reflected in energic verb forms: **yašmuranhū* > **yišmərannū* > *yišmrennu* = יָשָׁקֶרֶנוּ guard him" (Exod 21:29).⁹⁵

^{94.} Brønno, *Studien*, 173. Note also *napaš* (in the Old Babylonian Tradition at Deut 10:22 corresponding to בָּׁלָשָׁ), as presented in Heijmans, "Babylonian Tradition," 2:92. It is also conceivable that in **qatl* nouns that have a relatively nonsonorous second root consonant (i.e., not /l/, /n/, /m/, /r/), the historical */a/ vowel shifted to */i/ in forms with suffix, as with **sadqī* > **sidqī* (> צָּדְקִי) "my righteousness" vs. the expected development in the absolute, **sadq* > **sedq* (> אָנָדְקִי) (see Huehnergard, "Biblical Hebrew Nominal Patterns," 39). On the other hand, in the Secunda, the tendency is for sibilants to shift historical */a/-class vowels to /ɛ/, as in ɛσð corresponding to דֶּלָק (< **hasd*) "piety" (Ps 32:10) and in σεδχι corresponding to 3:27) (see Yuditsky, "Transcription into Greek and Latin," 3:810).

^{95.} The evidence from the Secunda is slender but seems to presuppose a shift from */a/ to /ε/ in energic forms: αωδεννου corresponding to אָרוֹדָבוּ "I will praise you" (Ps 28:7); note also αιωδεχχα, which corresponds to דָיוֹדָדָ "will he praise you" (Ps 30:10), though the transliteration seems to presuppose an energic form, * הַיוֹדָדָ (see Brønno, Studien, 195–97).

^{96.} Given the environments in which it occurs, it seems to have been a shift that affected words relatively late (at least after the lengthening of vowels in the tonic and pretonic syllables). See Steven Fassberg, "Dissimilation," *EHLL* 1:766–67.

lar transformations: *kaḥḥāš (> בֶּחָשָׁ) "lying," *bahhālā (> בֶּהָלָה) "horror," *lahhābā (> לֶהְבָה) "flame." Among nouns with suffixes, note the relatively frequent (*'aḥḥayhu >) *'aḥḥāw (אֵחַיו <) "his brothers."

In still other cases, it is hard to know the reason for the vowel shift. Note, for example, the shift presumed in the vowel between the stem and suffix in pausal forms, like **dabaraka* > **dabārakā* (> *dbårekå* = דָּבֶגֶר) "your word" (Gen 30:34).⁹⁷ Unlike the examples discussed above, in this case the historical */a/ is not followed by two consonants.

3.8. "Philippi's Law" and Similar Changes

In many other cases, historical short */i/ became /a/ (in essence, the reverse of attenuation). It will be obvious to students, at the intermediate level, that often the presence of a guttural or *resh* will affect the vowel that precedes or follows it. Often, */i/ shifts to /a/ (e.g., **di*^c*tu* > *da*^c*t* [= יַבָּׁעַת =] "knowledge" and **pāriḫtu* > **pōraḫt* [> יַבָּתַת =] "one sprouting"). Presumably this tendency for the gutturals to attract the /a/ vowel is a relatively early phenomenon.⁹⁸

A relatively late shift consists of the historical short */i/ becoming /a/ in construct forms and in the stem of some verbal forms. As indicated above (in §4, "Lengthening and Lowering of Vowels in Tonic Syllables"), it is assumed that */i/ initially became */ ϵ / in these forms before then becoming /a/.

^{97.} Cf. the contextual form דְּבְרָץ (in 1 Sam 9:10). In the Secunda, one finds that the 2ms suffix on singular nouns in pause is usually marked with - $\alpha\chi$, as in $\alpha\mu\mu\alpha\chi$ corresponding to דָעָאָץ "your people" (Ps 28:9); but it appears once as - $\alpha\chi\alpha$, in $\iota\epsilon\sigma\alpha\chi\alpha$ corresponding to דָשָׁעָץ "your salvation" (Ps 18:36) (see Brønno, *Studien*, 288); - $\alpha\chi$ is also the most common form of the suffix on contextual nouns (ibid., 341). Similarly, on plural nouns both pausal and contextual, the 2ms suffix is usually marked with - $\alpha\chi$, as in $\phi\alpha\nu\alpha\chi$ corresponding to τ ָשָׁעָץ "your face" (Ps 30:8) (ibid., 199). By contrast, most cases of the 2ms suffixes on *yiqtol* verbs, whether in pause or context, are - $\epsilon\chi$, as in $\omega\delta\epsilon\chi$ corresponding to τ אוֹדָר "I will praise you" (Ps 35:18) but also pausal τ (Ps 30:13) (ibid., 195).

^{98.} At the least, the /a/ vowel occurred near gutturals in the late Second Temple era, as suggested by various transcriptions, including from the Secunda. Note the theme vowel in $\theta \epsilon \beta \alpha \rho$ corresponding to אָבָער "it will burn" Ps 89:47 and the epenthetic vowel represented by $\delta \alpha \rho$ corresponding to אָבָער "it will burn" in didiot" Ps 49:11 (Brønno, *Studien*, 28, 139). In other cases, sometimes */i/ lowered to /ɛ/ (e.g., הֶלְכָּם "their portion" Gen 14:24).

- *zaqinu->*zaqin->*zaqin-(>zqan-= וָקַן) "elder of"
- *zaqinta > *zāqɛntā (> zåqantå = וְלַכְנָת) "you are old"
- *yālidtaha > *yōlɛdtaha (> yoladtåh = יָלַדְתָה) "one who bore her"
- *dabbirta > *dibbɛrtā (> dibbartå = דְּבַרְתָּ) "you spoke"
- *haggidta > *higgedtā (> higgadtå = بَذِرَهَ) "you told"
- *tilikna > *tēlɛknā (> telaknå = הַלְבָנָה) "they will go."99

This shift is often described as a development of */i/ > /a/ in stressed syllables and is labeled "Philippi's Law."¹⁰⁰ Notice in relation to the forms above that the historical */i/ is, in each case, followed by two consonants in the interior of a word (assuming that the construct form יקר would be pronounced with a following word).¹⁰¹ The phenomenon, it should be noted, admits of many exceptions (e.g., **likna* > **leknā* [> יָקרָ "go!" and **libbu* > **leb* [> ±*leb* [> ±/2] "heart"). Although the shift */i/ > /a/ used to be considered an extremely early phenomenon, it is now usually thought to be relatively late (at least where it occurs in the above listed forms), appearing in different distributions in different reading traditions, but not in the Secunda.¹⁰² In the Secunda, the historical */i/ is usually realized as *epsilon*, which likely

101. The shift of */i/ to $|\epsilon|$ in contextual forms but to |a| in pausal forms is also found in fs ptcs. and in inf. const. of the I-*vav*/*yod* and I-*nun* roots. See above §4, "Lengthening and Lowering of Vowels in Tonic Syllables."

^{99.} See Lambdin, "Philippi's Law Reconsidered," 142. The shift in words such as און איז may be due to analogy with nouns of the *qatal base (See Huehnergard, "Biblical Hebrew Nominal Patterns," 43 n. 41, who cites Thomas O. Lambdin pers. comm.). Also, *'abbida > *'ibbid > *'ibbed (אָבָד) "he destroyed" (in context), due to dominance of /a/ in stative and passive verbs (?); see Joüon § 52c.

^{100.} See John Huehnergard, "Philippi's Law," EHLL 3:70–71 and Steven E. Fassberg, "Two Biblical Hebrew Sound Laws in Light of Modern Spoken Semitic" in Nicht nur mit Engelszungen: Beiträge zur semitischen Dialektologie, Festschrift für Werner Arnold zum 60. Geburtstag, ed., Renaud Kuty, Ulrich Seeger, and Shabo Talay (Wiesbaden: Harrassowitz, 2013), 97–99. The mnemonic "Philippi-Philappi" is sometimes used to remember the rule. Note still other isolated examples like *bint > *bitt (> דֹם) "daughter"; *pitt (> דֹם") "piece" vs. בָּתִים.

^{102.} Lambdin, "Philippi's Law Reconsidered," 143. Khan ("*Sere*," 139–40) suggests that the Secunda is an outlier and that other traditions (like that presumed for the LXX) evidence this shift to /a/ earlier than the Secunda. Blau (*Phonology and Morphology*, 134) views it as occurring after pausal lengthening had ceased to operate. The orthography of the DSS only makes explicit an /i/ vowel in these forms, though these forms can perhaps be attributed to Aramaic influence: והוליכתי "I will lead" (1QIsa^a at Isa 42:16) vs. והוליכתי.

reflects a Hebrew /i/, /e/, or /ε/.¹⁰³ Note the *piel* ελλελθ (cf. הַלַּרָהָ) "you profaned" (Ps 89:40); the *hiphil*: εσθερθα (cf. הָסָתַּרָהָ) "you hid" (Ps 30:8).¹⁰⁴

3.9. Canaanite Shift and Historical */ā/

The term "Canaanite shift" refers to the shift of */ā/ to */ō/.¹⁰⁵ This shift is attested in the indigenous language used by some Canaanite correspondents in the Amarna letters, letters written on behalf of various city rulers (like the ruler of Jerusalem) to the Egyptian pharaoh Akhnaten (ca. 1350s–1330s BCE). The letters are written in Sumero-Akkadian cuneiform in the Akkadian language (an East Semitic language, where the historical /ā/ was preserved). Nevertheless, sometimes the scribes would include words from their own Northwest Semitic dialect, where */ā/ had shifted to /ō/. Thus, in the cuneiform Akkadian script, *a-nu-ki* is written for what was presumably pronounced as '*anōki* "I," a pronoun that derives from an earlier form *'*anāku*.¹⁰⁶ Similarly, *a-bu-ti-nu* was pronounced something like '*abōtinu* "our fathers" (from an earlier *'*abātinu*) and *sú-ki-ni* like *sōkini* "steward" (from an earlier **sākinu*).¹⁰⁷ Eventually, this vowel would be represented with *holem* by the Masoretes: μ_{i} and μ

^{103.} Writing in relation to verb forms such as רָאָן, Khan ("Şere," 139) notes that, although Tiberian *patakh* sometimes corresponds to *epsilon* in the Secunda, this is never the case with verbal forms like רָאָן: he writes: "Since *alpha* is never used in the final syllable of the verbal forms in question, it is likely that the *epsilon* here was intended to represented [sic] a closer vowel." In the case of verbal forms like those above, the Secunda represents the last stem vowel with *epsilon* in all but one case (out of twelve examples): $\mu \alpha \gamma \alpha \rho \beta \alpha$ (cf. רָאָרָקָה). "You threw" Ps 89:45, which form seems like a *qal* (see Brønno, *Studien*, 64–68, 88). Not counted are the two *hithpael* forms (ibid., 107), which attest /a/-vowels perhaps reflecting the tendency for /a/-class vowels in this conjugation.

^{104.} Cf. the *hiphil* 3ms: בּרְעָים "he thundered," Ps 29:3, corresponding to הְרְעָים. For the examples, see Yuditsky, "Hebrew and Greek in Latin Transcriptions," 1:111.

^{105.} Blau (*Phonology and Morphology*, 48) argues that this only took place in accented syllables. However, Fassberg ("Two Biblical Hebrew Sound Laws," 95–97) has recently argued that it is more likely that all $*/\bar{a}$ / vowels shifted to $*/\bar{o}$ /.

^{106.} Sumero-Akkadian cuneiform has no independent symbols to mark the /o/ vowel and so scribes used the symbols for /u/.

^{107.} For more examples, see Sivan, *Grammatical Analysis*, 29–34. Serpent incantations from the Pyramid Texts may suggest that the Canaanite Shift took place by at least the third millennium BCE (see Richard C. Steiner, *Early Northwest Semitic Serpent Spells in the Pyramid Texts*, HSS 61 [Winona Lake, IN: Eisenbrauns, 2011], 46).

Most commonly, the */ō/ (< */ā/) appears in the first syllable of the *qal* active participle: * $\bar{s}amiru > *\bar{s}om\bar{e}r (> שָׁמֵר)$, and in the ending of feminine plural nouns/adjectives: * $barak\bar{a}tu > *barak\bar{o}t (> בָּרְכוֹת)$. Note also the base **qatāl*, on which are formed nouns like * $l\bar{a}s\bar{o}n (> centre cent$

It should be noted that in some exceptional words and forms a PS $*/\bar{a}/$ is not realized as $*/\bar{o}/$, but seems to remain $*/\bar{a}/$ and in THT is realized as $/\dot{a}/$ (i.e., *qamets*). In these cases, the reason may be influence from Aramaic or an Aramaic-like dialect. In ancient Aramaic, historical $*/\bar{a}/$ remained $*/\bar{a}/$. Influence from Aramaic gradually became stronger and stronger over the course of the first millennium BCE. All the same, some words probably migrated from Aramaic (or another similar dialect) in earlier periods.

Note the following examples, where the $*/\bar{a}/derives$ from a historical long $*/\bar{a}/:$

- *yiqāru > *yəqār (> יָקַר) "honor"
- *kitābu > *kətāb (> בָּתָב) "book"
- *maṣādu > *məṣād (> מַצָּד) "mountain refuge"
- *sVpāru > *səpār (> יָׁפָר) "calculation"
- *qarābu > *qərāb (> קָרָב) "war."¹¹⁰

In these cases, the Aramaic influence is seen not only in the retention of $*/\bar{a}$ /, but also in the pretonic reduction of the historical short vowels */i/ and */a/. Such reduction is characteristic of Aramaic but uncharacteristic

^{108.} Other bases like *qattāl are less common.

^{109.} In the construct form with the *maqqef*, the short */u/ lowered further in quality to /å/ in THT, as reflected in 'דָּקָ'; with suffixes the vowel sometimes appears as a short */u/: *huqqī (> הָקָי). Similarly with the word "all": *kol (כל <) and *kullō (הַקּי)

^{110.} See Stadel, "Aramaic Influence on Biblical Hebrew," 1:162–65; and Hornkohl, *Ancient Hebrew Periodization*, 152–58.

of Hebrew, where pretonic */i/ and */a/ usually lengthen to */ \bar{e} / and */ \bar{a} / (as described above). Other examples of */ \bar{a} / possibly derived from Aramaic influence include those Hebrew words exhibiting Aramaic infinitival patterns, like those of the D-stem infinitive * $qatt\bar{a}l\bar{a}$ and the H-stem infinitive * $haqt\bar{a}l\bar{a}$:

- *bahhālā (> בָּהָלָה) "horror"
- *baqqārā (> בַּקָרָה*) "care"
- *baqqāšā (> בַּקָשָׁה<) "request"
- *nahhāmā (> גַּחָמָה) "comfort"
- *hakkārā (> הַבָּרָה) "recognition"
- *hănāḥā (> הַנְחָה) "resting"
- *hănāpā (> הַנָפָה) "waving"
- *hassālā (> הַצָּלָה) "deliverance."¹¹¹

In all these cases, the $*/\bar{a}/$ does not reduce in construct or in other positions with suffix:

- *kətāb (< כָּתַב־) "writing of [the law]" (Esth 4:8)
- *baqqārat (> בָקָרַת) "care of [the shepherd]" (Ezek 34:12)
- *baqqāšātēk (> בַקָּשָׁתַך) "your request" (Esth 5:6).¹¹²

In addition, II-*vav*/*yod* roots also attest what at first glance appears to be a historical $*/\bar{a}$ / which developed due to various triphthong contractions:

- *ġawabu > *ġāb > *ʿāb (> עָב <) "cloud"
- *rawamatu > *rāmā (> רְמָה) "high place"
- *qawamu > *qām (קם <) "one who arises"
- *<u>t</u>awabu > *šāb (> يُقَدَّ (שָׁב <) "one who returns."¹¹³

^{111.} Stadel, "Aramaic Influence on Biblical Hebrew," 1:162–65. Huehnergard ("Biblical Hebrew Nominal Patterns," 51) suggests these might derive instead from **qattalat*, based on Akkadian evidence.

^{112.} Stadel, "Aramaic Influence on Biblical Hebrew," 1:162-65.

^{113.} For the adjective רְמָה, see Fox, Semitic Noun Patterns, 162; for the participles, see ibid. Another example may be the plural of עיר, "*city*," *ayarīm* > *"carīm* > (cf. עָרִים, "cities" in Judg 10:4), but note that Huehnergard and others have suggested an alternative explanation of suppletion, from another root, ערר, "Biblical Hebrew Nominal Patterns," 32 n. 22 with literature).

As in the cases of the apparent Aramaisms above, in these Hebrew words the $^{*}/\bar{a}/$ does not reduce:

- * *`ābē* (> עָבִי (Ps 18:12))
- *rāmātēk (> רְמָתֶך) "your high place" (Ezek 16:31)
- *qāmēhem (> קַמֵיהֵם) "those rising against them" (Exod 32:25)
- *šābē (שָׁבֵי <) "those returning from [transgression]" (Isa 59:20).¹¹⁴

This */ā/ is analogous to the */ē/ that appears in words like **mēt* (> מָת (**mētē* [> מָת יֹשׁ (* ad ones of ").¹¹⁵ Huehnergard and others categorize these words as from the Proto-Hebrew base **qal* and **qil* respectively.¹¹⁶ All things being equal, the */ā/ resulting from contractions should have become /ō/ in Hebrew through the Canaanite Shift, suggesting a sequence of changes like the following: **qawama* > **qāma* > **qama* (time of Canaanite Shift) > **qām* > 117

In only very rare cases does a historical short */a/ not reduce in an open syllable. The most notable example is found in the *niphal yiqtol* and related forms, like the imperative: **hiššamirū* > **hiššāmərū* (הָשָׁמְרוּ) "be attentive!" (Exod 19:12).

3.10. Loss of Final Short Vowels

Most words in the precursor to Hebrew in the second millennium BCE would have ended with a short vowel. Singular nouns and adjectives would have ended in case vowels consisting of a single short vowel (e.g., **malku* "king" in the nominative case vs. **malka* "king" in the accusative case).¹¹⁸ Verbs, too, often ended in short vowels, as with the *yiqtol* form **yašmuru*

^{114.} Note also the potential parallel * $\bar{a}r\bar{e}$ (אָרָי <) "cities of [the Levites]" Lev 25:32 (see the preceding footnote).

^{115.} See Huehnergard, "Biblical Hebrew Nominal Patterns," 29 and his article "Features of Central Semitic," 176–78.

^{116.} See Huehnergard, "Features of Central Semitic," 176–78; Huehnergard, "Biblical Hebrew Nominal Patterns," 29.

^{117.} Further inconsistencies are found in other traditions; in Samaritan Hebrew, e.g., the PNWS */ā/ does not shift to /ō/ in various words where the shift does happen in THT: [ānāki] (cf. אָנֹכִי "I"; [lā] (cf. לאֹ") "no" (see Florentin, "Samaritan Tradition," 1:124).

^{118.} See ch. 4 §4, "Inflection of Basic Masculine and Feminine Nouns," for an elaboration of the case system.

"he will guard" (vs. short-*yiqtol *yašmur*). At some point near the beginning of the first millennium, these short vowels were lost from the ends of words. This contributed to a number of further changes that are documented below, including the obsolescence of the case system (**malk* could function as a nominative or accusative), and the general loss of distinction between the regular *yiqtol* and the short-*yiqtol*.

3.11. Feminine Singular *- $at > *-\bar{a}$

In the second millennium BCE, the feminine morpheme on singular nouns was often -*at*. Thus, a typical word like "queen" **malkā* (> מַלְכָּה would have had the form **malkat* followed by a case vowel (e.g., **malkatu*). By the first millennium BCE, case vowels were lost and the feminine morpheme *-*at* had shifted to *-*a* and later *-*ā*. In essence, the *taw* was lost and the preceding vowel was preserved as short and later lengthened.¹¹⁹ Cognizance of this earlier form for feminine singular nouns is helpful since it explains the form of feminine nouns in construct and with suffixes. It is helpful to remember that words with endings are often closer to their historical, etymological forms.¹²⁰ Thus, one finds the construct form *malkat* (= מַלְכָּתוֹ מַלְכָּתוֹ mulkātəkā (> מֵלְכָּתוֹ **malkātəkā* (> מֵלְכָּתוֹ

3.12. Triphthongs and Diphthongs

At a relatively early date, by at least the beginning of the first millennium BCE, certain sequences of vowels and semivowels (i.e., /w/ and /y/) had contracted.¹²² We have just described the early resolution of triphthongs in II-*vav/yod* roots that are eventually realized in BH as $^{*}/\bar{a}/$ and then /a'/.

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^{119.} See Geoffrey Khan, "Compensatory Lengthening," EHLL 1:501.

^{120.} Words in construct are similar to words bearing suffixes since the construct word is essentially attached to the following word. The linking of words means that the second (nonconstruct) word essentially functions like a suffix to the first word.

^{121.} Cf. אָהֶבְתִד "his love" and אָהֵבְתִד "your love."

^{122.} The two sounds /w/ and /y/ are called semivowels because they share qualities of both vowels and consonants. Note the examples of resolved diphthongs and triphthongs assembled by Sivan, *Grammatical Analysis and Glossary*, 12–19 (from the second millennium BCE) and Millard, "Transcriptions into Cuneiform," 3:838–47 (from the first millennium BCE).

In general, triphthongs that ended with */a/ became */ \bar{a} / and then /a/ in THT; triphthongs that ended with a short */i/ or */u/ developed into */ $\bar{\epsilon}$ /, which then became / ϵ / by the time of the Secunda. In the latter case, the exact sequence of changes is hard to trace.¹²³

- **banaya > *banā > *bānā* (> בָּנָה) "he built" (passim)
- *yabniyu > *yibnē > yibne (= יִבְנָה) "he will build"
- *yagluwu > *yagluyu > *yiglē > yigle (= יְגָלָה) "he will reveal")
- *ma'śayu > *ma's $\bar{\varepsilon}$ > ma's ε (= מַעֲשֶׁה) "deed."

Where a triphthong ended in a long vowel, that long vowel eclipsed the preceding vowel and semivowel and the long vowel is all that remains:

- *yagluwūna > *yagluyūna > *yigluyū > *yiglū (> יָּגְלוֹ) "they will reveal"
- *qašiyīma > *qāšīm (> קָּשִׁים) "hard"
- *qašiyātu > *qašiyōt > *qāšōt (> קָשׁוֹת) "hard."

For nouns, one assumes a contraction with a case vowel (e.g., see * ma^c śayu above).¹²⁴ That the contraction of triphthongs involved case vowels implies the early date of these contractions since the case vowels (and all final short vowels) dropped off words relatively early in the history of Hebrew (by around the first millennium BCE).¹²⁵

^{123.} The contraction of triphthongs should result in a long vowel (e.g., $/\bar{e}/$). This seems to be evidenced in cuneiform transcriptions of Hebrew names (from ca. 800s–600s BCE), as with *mi-na-si-i*, *me-na-se-e*, *me-na-si-i*², *mi-in-se-e*, *mu-na-se-e*, and *me-na-se-e* (for מִנְשָׁה "Manasseh"), where the sequence of consonant-vowel + vowel signs implies a long, final vowel (see Millard, "Transcriptions into Cuneiform," 3:840–41). This is also suggested by the transcription of III-*vav/yod* words in the LXX with final *ēta* (representing /*ē*/); see Khan, "*Şere*," 136–37. Were these resolved triphthongs always pronounced /*ē*? In any case, the Secunda represented the vowel in question with *epsilon* (e.g., $\mu \alpha \sigma \varepsilon$ [cf. $\alpha \sigma \sigma$]" "refuge" Ps 46:2).

^{124.} On case vowels, see below in chapter 4 §4, "Inflection of Basic Masculine and Feminine Nouns." See, e.g., Blau, *Phonology and Morphology*, 98.

^{125.} Although some words, such as דָו "alive," בָּו "command!" (the apocopated form of the *piel* imperative), and דָן "line," might seem at first to be exceptions, these actually attested geminated *vavs/yods* (e.g., **hayyu*) at the time when the language had case vowels. The gemination of the consonant preserved the historical vowels (see Blau, *Phonology and Morphology*, 99–100).

Diphthong contraction (i.e., */ay/ > */ē/ and */aw/ > */ō/) is seen in THT in the inflection of short words such as יָיָן "wine," בָּיָת "house," זַיִּת "olive," בָּיָת "death," and also in verbs:

- *yaynu > *yayn > *yēn (> "") "wine of"
- *baytiyya > *baytī > *bētī (> ביתי) "my house"
- *mawtu > *mawt > *mot (> mot (> mot of")
- *hawšiʿa > *hōšīʿ (> הוֹשִׁיע) "he delivered" [hiphil ישׁע]
- *haytiba > *hētīb (< הֵיטִיב (הֵיטִיב) "he treated well" [hiphil יטב].

One frequently sees contraction of diphthongs in the plural noun plus pronominal suffix (e.g., **dabaraykumu* > **dabrēkɛm* [> דְּבְרֵיכֶם] "your words"). Only exceptionally does the /ay/ diphthong appear to have contracted to short /e/: **dabarayka* > **dəbārekā* (> דְּבְרֵיךָ) "your words" and **dabarayha* > **dəbārehā* (> דְּבְרֵיָרָהָ

For the southern version of Classical Hebrew of the first part of the first millennium BCE the diphthongs /ay/ and /aw/ would have been preserved, presumably even when unaccented. This is suggested by the spelling of certain words in texts dating to the 700s–580s BCE. For example, in Hebrew letters from Arad (ca. 600 BCE) and Lachish (586 BCE), the word "wine" is spelled with a medial *yod*, *yyn*, both in the absolute state and in the construct state, implying the preservation of a diphthong: **yayn*.¹²⁷ Since *matres* are not predictably found within words in inscriptions to indicate / \bar{e} / at this time, it is easier to argue that the second *yod* of *yyn* is a true consonant, not a *mater* for a resolved diphthong.¹²⁸ The THT version of the word in the absolute, $\prod_{i=1}^{n}$, is essentially the same, with an epenthetic vowel, /i/, inserted between the final two consonants (though in construct the diphthong resolves, as noted above). In addition, Neo-Assyrian cuneiform transcriptions sometimes reveal the presence of diphthongs, as in the

^{126.} Is it perhaps a case of dissimilation (i.e., **dabarayaha* > **dabarāhā* > *dbårɛhå* [= דְבָרֻׁהָ [= הָבָרָים]), akin to the dissimilation in הָהָרִים (see §7 above, "'Attenuation' and Similar Changes")?

^{127.} On the dates, see Shmuel Ahituv, *Echoes from the Past: Hebrew and Cognate Inscriptions from the Biblical Period*, trans. Anson Rainey, Carta Handbook (Jerusalem: Carta, 2008), 59, 92. The word *yyn* is found in Lachish letter 25 and Arad 1, 2, 3, 4, 8, 10, 11. See also F. W. Dobbs-Allsopp et al., eds., *Hebrew Inscriptions: Texts from the Biblical Period of the Monarchy with Concordance* (New Haven: Yale University Press, 2005).

^{128.} For the evidence, see Gogel, Grammar of Epigraphic Hebrew, 66-67.

transliteration of "Hosea" (THT הוֹשָׁע *a-ú-se-*' (reflecting something like **hawše*').¹²⁹ In later times (probably by the middle of the first millennium BCE), these diphthongs were preserved only in stressed position. Thus, "wine" was **yayn* in the absolute, but **yēn* in construct or with pronominal suffixes.

In the north, however, it seems that these diphthongs had contracted early on, even in the accented syllable of the absolute noun. The same word "wine" is found in inscriptions from the north (in Samaria), dating approximately to 780–740 BCE; in these texts the diphthong did resolve as implied by the spelling with just one *yod*: *yn* (**yēn*) "wine."¹³⁰ A reduction of diphthongs is also found in dialects and languages of NWS even further north, as in Phoenician and Ugaritic. This small disparity between the northern and southern dialects of Hebrew is not preserved in the MT, but it is useful to know that within the time that the biblical texts were being written distinct dialects coexisted. Moreover, the resolution of accented diphthongs appears to have survived into Samaritan Hebrew, where, for example, "water" appears as [mem] (cf. THT \Box).¹³¹

131. See Florentin, "Samaritan Tradition," 1:123. Note, too, that *ay > $*\bar{i}$ in certain environments; see Richard C. Steiner, "On the Monophthongization of *ay to \bar{i} in Phoenician and Northern Hebrew and the Preservation of Arachaic / Dialectal Forms in the Masoretic Vocalization," *Orientalia* 76 (2007): 73–83.

^{129.} See Millard, "Transcriptions into Cuneiform," 3:840. Note that the same name is also spelled without a diphthong as \dot{u} -se-³. In addition, the name of a Samarian, אָחִיָּהוּ, is spelled aħi-i-ú, presuming a pronunciation something like aħħiyyō, where the he of the earlier -yahū has elided and the resulting diphthong has resolved (see ibid., 3:841).

^{130.} On the date, see Ahituv, *Echoes from the Past*, 259; and Dobbs-Allsopp et al., *Hebrew Inscriptions*, 423. The word *yn* is found in Samaria Ostraca 5, 12, 13, 14, 53, 54. See Garr, *Dialect Geography*, 38–39. Na'ama Pat-El ("Israelian Hebrew: A Re-Evaluation," *VT* 67 (2017: 227–63) emphasizes that there is counterevidence for this dialectal trait (i.e., the preservation of the diphthong /ay/ seems to be evidenced in the orthography of *byt* "house of" in two inscriptions from the north [from Beth Shean, Bshn 1:2, and Tell Qasil, Qas 2:1]; and the apparent resolution of the diphthong in the orthography of *qs* (< **qys*) "summer" in a southern text [Gezer Calendar, Gez 7]). As Pat-El herself observes, however, the spellings with the diphthong in the north (with *byt*) are part of names and thus "less convincing" (ibid., 244 n. 49). See Garr (*Dialect Geography*, 38–39) for possible explanations of *byt* and for another anomaly from the south. Despite the inconsistencies with other words, the spelling of the word "wine" appears to reflect this distinction between the north and south regularly.

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3.13. Compensatory Lengthening

Compensatory lengthening refers to the lengthening (and sometimes lowering) of a vowel due to the loss of a following consonant. This is found not only in later varieties of Hebrew, but is already presupposed in the Canaanite pronunciation reflected in certain spellings of words in the Amarna correspondence, mentioned above (ca. 1350–1330 BCE). For example, the word "head," based on comparative evidence, would have been **ra*²*šu* in an early stage of the language. The word is found spelled with the first-person common plural pronominal suffix in the Amarna letters: *ru-šu-nu* "our head," reflecting the pronunciation $r\bar{o}su$ for the word without suffix.¹³² This presumes the development of **ra*²*šu* > **r* \bar{a} *šu* (compensatory lengthening) > * $r\bar{o}$ š (Canaanite shift) (>Visite (2000).

Compensatory lengthening continued to operate in specific environments at specific times. Generally, compensatory lengthening is associated with guttural consonants (as well as *resh*), where these consonants should be pronounced at the end of a syllable. Compensatory lengthening was especially common before geminated gutturals, where the first of the two gutturals was lost and the preceding vowel lengthened. In essence, the difficulty of extending the articulation of a guttural consonant after a short vowel led to the shortening of the consonant and the lengthening of the vowel. Stated in another way, the loss of one component of a word (a consonant) led to its replacement with another component (the length of the vowel) such that the word retained its basic syllable structure and rhythm. Blau suggests that this took place in the syllable that bore the stress.¹³⁴

^{132.} See Sivan, *Grammatical Analysis*, 29–30. The final /u/ vowel is the nominative case vowel.

^{133.}A similar development pertains to the word *sú-ú-nu*, pronounced *sōnu* "small herd animal" and eventually written געאן. See also Fox, *Semitic Noun Patterns*, 78. See more on this word in ch. 4 §18, "Segolate Nouns."

^{134.} Blau, Phonology and Morphology, 87.

yēḥāšeb* (> יֵחְשֵׁב) "it will be considered," but the same vowel remain short in the *piel qåṭal* (šaḥḥita* >) **šiḥḥet* (> שָׁחֵת) "he destroyed"?¹³⁵

At least some of these inconsistencies can be explained by noting the place of articulation of the three short vowels and by postulating a specific sequence of developments related to the pronunciation of gutturals (+ *resh*). The short */i/, being a front vowel, is furthest in its place of articulation from the gutturals. It lengthens/lowers least often. On the other hand, short */u/, being a back vowel, is closest in its place of articulation to the gutturals; it lengthens/lowers most often. As for the gutturals themselves, they seem to have ceased gemination at different times.

At the earliest stages, the *aleph* and *resh* ceased being geminated (and, in the case of *aleph*, ceased being pronounced within a word in certain environments [e.g., $*ra^3 \check{s}u$]) and this led to compensatory lengthening before *aleph* and *resh*.¹³⁶ As a consequence, compensatory lengthening is most common before these letters, resulting in the development of long-vowel versions of each of the short vowels:

- */i/>*/ē/ as in (*birrika >) *bērek (> בָרָד) "he blessed";
- */a/ > */ā/ as in (*yubarriku >) *yəbārek (> יָבָרָדָ) "he will bless";
- */u/ > */ō/ as in (*yuburraku >) *yəbōrak (> יָבֹרָד) "he will be blessed."¹³⁷

At a later time, *ayin* ceased being pronounced as a geminated consonant.¹³⁸ Due to the relative lateness of this cessation and/or due to the inherent qualities of this consonant, compensatory lengthening appears only sporadically with *ayin* and only in association with certain vowels. The vowel */i/ often did not develop into */ē/ (e.g., the initial vowel in **bi*^{cc}*ira* > **bi*^{cc}*er* [> *bi*^c*er* = ¬*j*] "he kindled"). Short */a/ only sometimes developed into */ā/, as evidenced by contrasting the *piel yiqtol* form **yuba*^{cc}*iru* > **yəba*^{cc}*er* (> **yba*^c*er* =) "*i*" "the will kindle" with the *piel* infinitive construct (= inf.

^{135.} For more examples, see Sperber, Historical Grammar, 434.

^{136.} On compensatory lengthening and its development, see Blau (*Phonology and Morphology*, 83) and Khan ("Compensatory Lengthening," 1:501).

^{137.} Similarly with *aleph*, note $*b\bar{e}^{2}er$ (> בָּאָר) "he explained"; $*b\bar{a}^{2}er$ (> בָּאָר) "explain!" Still, there are cases where compensatory lengthening did not take place: $*ba^{2}er$ (> בָּאָר) "clearly." Often the *piel* of נאץ "to spurn" does not evidence compensatory lengthening.

^{138.} I assume that this is after $/^{c}/$ and $/\dot{g}/$ had merged.

abs.) of the same verb *ba^{cc}ira > *bā^cēr (> בָּעֵר) "to kindle."¹³⁹ However, one regularly finds compensatory lengthening of historical */a/ before *ayin* in the definite article (e.g., *ha^{cc}īru > *hā^cīr [> הָעָיר] "the city" and *ha^{cc}abdu > *hā^cabd [> *hā^cabd [> הָעָיר] "the servant"). In contrast to /i/ and /a/, the vowel */u/ regularly develops into */ō/, as with pausal (*mubu^{cc}irtu >) *məbō^cārt (> məbō^cārt (>) "was kindled."

At the same time or a little later, *he* ceased being geminated. Neither */i/ nor */a/ regularly lengthen before this guttural (e.g., [**mihhara* >] **mihhar* [> **mihar* = מָאָר (מְאָר (אַרָּרָלים) (מָרָר (אַרָּרָלים) (מָרָר (מַאַרָר (מַרָר (

Finally, *khet* ceased being geminated.¹⁴¹ Compensatory lengthening is relatively rare with this consonant (**yaḥḥilnū* > **yiḥḥalnū* [> *yiḥalnu* = יְחַלָּגוֹ ('ִחַלְּגוֹ = '׳ִחַלְּגוֹ = '׳ִחַלְּגוֹ "I will hope" and **haḥḥušku* > **haḥhošk* [> *haḥošk* = יָּמָלָגוֹ "I muḥhāmā [> nuḥåmå = 'µִחָמָגוֹ " ('usas not comforted"). This reflects the fact that it ceased gemination only at a very late date.¹⁴² The label "virtual doubling" is used to describe the apparent gemination of *ayin*, *he* and *khet* in some of the above THT forms, where compensatory lengthening is not in evidence. Although it is "virtual" for THT, and thus the letters are not marked with a *daghesh* by the medieval scribes, the gutturals *ayin*, *he*, and *khet* were likely really geminated in the last centuries of the first millennium BCE, and *khet* likely into the Common Era.

Nevertheless, a consistent place where one does see compensatory lengthening, even with *ayin* (perhaps also $/\dot{g}/$), *he*, and *khet*, is with pre-

^{139.} Not all verbs with middle *ayin* attest this clear distinction in the paradigm between finite and infinitive forms. The point is that sometimes you find compensatory lengthening, though usually you do not. Note, e.g., that the verb $\pi v v r$ "to abhor" occurs in the *piel* twelve times in *yiqtol*, participial, and infinitival forms and attests compensatory lengthening of */a/ to */ \bar{a} / only four times (once in a ptc., once in a *yiqtol* form, and twice in a *wayyiqtol* form); it does not attest the lowering/lengthening of */i/ in the three attested *qåtal* forms.

^{140.} The singular absolute form of the second to last word is based on the numerous attestations of the plural with suffix, e.g., מַאָּהָבָי.

^{141.} I assume that this is after /h/ and /h/ had merged.

^{142.} Note that the Secunda may reflect the gemination of *khet* by way of lack of compensatory lengthening in σεωθι corresponding to שָׁחֹוֹתִי "I bowed down" (Ps 35:14) (see Yuditsky, "Transcription into Greek and Latin," 3:806).

fixes containing the sequence *-in-*, either those associated with the *niphal yiqtol* or the *min* preposition. Thus, one sees the historical */i/ vowel of the *niphal yiqtol* prefix regularly realized as *tsere* (implying an earlier */ \bar{e} /) in verbs beginning with not only *aleph* and *resh*, but also with *ayin*, *he*, and *khet*:

- *yē'ākel (> יָאָבָל') "it will be eaten"
- *tērā'ε (הָרָאָה <) "it will appear"
- *yēʿāsɛ (> יַיָשָׁשָׁה) "it will be done"
- *yēhāpek (> יָהָפַד') "it will be turned"
- *yēhāšeb (> יָהָשֶׁב) "it will be considered."¹⁴³

Note also the relatively consistent presence of $*/\bar{e}/$ with the *min* preposition:

- *mē'īš (> מָאִישׁ) "from a man"
- *mērāhōq (< מֵרָחֹק) "from a distance"
- *mēġarb (عَيْنِي ح) "from evening"
- *mēhayyōm (< מָהַיּוֹם) "from the day"
- *mēḥālāb (> מִחְלָב) "than milk."¹⁴⁴

Note the set of geminate nouns/pronouns that begin with *he* and exhibit compensatory lengthening in the singular with the definite article:

- (*harru/*hahharru) > *har/*hāhār (> הָהָר/הַר) "(the) mountain"
- (*himm/*hahhimm) > *hēm/*hāhēm (> جَيْفُ (جَيْفُ رَضْ اللَّهُ (جَيْفُ مُعْلَى اللَّهُ * hey")
- (*himma/*hahhimma)>*hēmā/*hāhēmmā (> הָהֶמָה/הֶמָה) "they"
- (*hinna/*hahhinna) > *hēnā/*hāhēnnā (> بِشَدِه / شَدِه) "they".

All the examples above derive from environments where the guttural (or *resh*) was initially doubled. Compensatory lengthening also took place where the guttural came at the end of an accented syllable, but where it was not doubled. For example, in the verbal form **maşa²ta* > **maşāta* > **maşātā* (\dot{q} ¥māşātā (\dot{q} ¥māşātā (\dot{q} ¥māşātā (\dot{q} ¥māşātā)) "you found," the second syllable experiences com-

^{143.} Curiously, this does not occur with the *qåṭal* of גוחם, which appears as נִתַּם (< **niḥham* < **ninḥam*) "he was comforted."

^{144.} Note, however, the consistent presence of *hireq* in מְחוֹץ "from the outside."

^{145.}Similarly, note the independent pronoun "they" with definite article הָהָם, but cf. הָהוּא ,הַהִיא (Joüon, § 35d).

pensatory lengthening when the *aleph* dropped from pronunciation. It is retained in writing presumably because it is retained in pronunciation in other parts of the paradigm, like *maṣa'ū > *māṣa'ū > *māṣa'ū ((כְּמָצָאוּ) "they found."

Vowels lengthened to compensate for the absence of a geminated guttural (or *resh*) do not reduce, even in a propretonic syllable. This helps explain the difference between such forms as **pārātō* (> إَجْرَةَ ()) "his cow" (Job 21:10) and **šanātō* (> (שְׁנָתוֹ) "his year" (Num 6:12). If one just knew the singular absolute form of both nouns (**pārā* [> إَجْرَةَ and **šānā* [> إَجْرَةَ (), one might believe that they derive from the same base and that they should inflect in a similar manner. However, **pārā* (> إَجْرَةَ () is really a geminate noun (from an earlier **parratu*) while **šānā* (: שְׁנָה) is not (it is from an earlier **šanatu*). A vowel compensatorily lengthened at the end of a word will even be retained in construct: (**mawṣa*'>) **mōṣā hammayim* (> الْعَابَ اللَّهُ اللَّعَامَ "the spring of water" (2 Kgs 2:21); and (**kussi*'>) **kissē bēt yisrā*'ēl (

Given the precedent of *ra'šu > *rāšu > *rōš (> שָׁשָׁ) "head" where the lengthened */ā/ shifts to */ō/ as part of the Canaanite Shift, one may also wonder: Why did the forms *maṣāta and *mōṣā not shift to *māṣōtā and *mōṣō through the Canaanite Shift? One explanation is that the syllable -şa'(-) was not accented and so did not experience compensatory lengthening when the Canaanite Shift was taking place. Only at a later time did the accent move to the syllable -ṣa'- and result in the shift to -ṣā-. Notice also that the initial syllable in the word *ma'kalu > *ma'kāl (> 'ṣā-, `food" does not experience compensatory lengthening at all. Again, presumably this reflects the fact that the initial syllable was never accented.

In the Secunda, vowels are compensatorily lengthened in the manner reflected in THT.¹⁴⁷ In the DSS, the frequency of spelling mistakes involving gutturals parallels the frequency with which gutturals ceased being geminated. That is, words with *aleph* and *resh* are relatively often misspelled (often where the relevant letter is left out); words with *ayin* are misspelled slightly less often; and words with a *khet* are only very rarely misspelled.¹⁴⁸

^{146.} In contrast to, e.g., מוֹשָׁב בְּנֵי יִשְׂרָאָל "the dwelling of the children of Israel (Exod 12:40); עָקָשׁ־לָב (crooked of mind" (Prov 17:20).

^{147.} Khan, "Compensatory Lengthening," 1:502-503.

^{148.} Reymond, Qumran Hebrew, 71-114.

3.14. Epenthesis

At a relatively late date (in the last centuries of the first millennium BCE into the first centuries CE), vowels were sometimes added between consonants at the end of words to help break up clusters of consonants.¹⁴⁹ In most cases no vowel had previously existed where the epenthetic vowel appeared. The end result in the following forms is usually a sequence of two short vowels in the MT only the first of which was present in earlier varieties of Hebrew: (1) singular segolate nouns (e.g. לֵאָלָה "king" and "master"); (2) *qal* infinitives construct from I-*vav*/*yod* and I-*nun* roots (e.g., לֵאָלָה "dwelling"); (3) feminine singular participles (e.g., לֵאָלָה "one flalling" and בֹּמְלָח "iet him build").

Another example of epenthesis is the furtive *patakh* that appears between a high or midvowel (/i/, /e/, /o/, /u/) and a following guttural (e.g., strength"). Epenthetic vowels also sometimes occur after gutturals in some verbs (e.g., the /ă/ of יָשָׁמָד "he will stand" and the second /a/ of יָשָמָד "they will stand"). Even the vocal *shewa* functions as an epenthetic consonant, as in the case of יִשְׁמְרוּ "they will guard," where the *shewa* breaks up the cluster of *mem* followed by *resh*. In none of these cases, however, did the Masoretes consider the epenthetic vowel as constituting its own syllable.¹⁵⁰

In separate traditions, the epenthetic vowel comes before the cluster of consonants, not between them, as reflected, for example, in the Secunda (e.g., *[wə]yisimhū > ובסבעסט and סטבובסמעסט "(and) they will rejoice" Ps 35:24, 27; cf. [וְיָשְׁמְחוֹ]) and in BHT (e.g., *tiqirbu* "you will approach" Lev 18:6).¹⁵¹ Even the name of Jeremiah in the LXX reflects this tendency: ובסבעומג < *yirimyāhū (cf. יָרְמְיָהוֹ) where the second shewa constitutes the epenthetic vowel).¹⁵²

^{149.} See Geoffrey Khan, "Epenthesis: Biblical Hebrew," EHLL 1:831-33. Epenthetic vowels are attested in some LXX transliterations (e.g., γομορ corresponding to "omer measure" [Exod 16:16]) as well as in some DSS forms (e.g., γομορ corresponding to "work of" 1QIsa^a at Isa 59:6, corresponding to לפעל but not in most forms in Origen (e.g., γαβρ corresponding to (פָעָל). See, e.g., Kutscher, Isaiah Scroll, 502; Qimron, Hebrew of the Dead Sea Scrolls, 37; Reymond, Qumran Hebrew, 181-88; John Huehnergard, "Segholates: Pre-modern Hebrew," EHLL 3:520-22.

^{150.} Geoffrey Khan, "Shewa," 3:544; Khan, "Syllable Structure," 3:666

^{151.} Heijmans, "Babylonian Tradition," 1:142.

^{152.} See Khan, "Epenthesis," 1:832.

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3.15. Loss of Gemination and Shewa

When certain geminated consonants follow a *shewa*, the gemination may be optionally lost together with the *shewa*, at least in THT. For example, **min* + *lama*'lā > **millama*'lā > **milma*'lā > "from above" versus **millamat*tā > **millama*'lā > **milma*'lā > "from below"; *'*iwwēr* > "blind" but *'*iwrīm* > "blind" but *'*iwrīm* > "tim he phenomenon is associated with several colloquial phrases, created ostensibly for mnemonic purposes, including "Skin 'em alive" and "Skin 'em Levi." Although these may help one remember that the set of consonants that may lose gemination in this way includes sibilants ("s"), liquids ("l," "m" and "n"), as well as *vav* ("v"), one might be forgiven for believing that *kaph* ("k") and *bet* ("v") are also included in this set of consonants. They are not. A more useful mnemonic makes explicit the consonants that are part of this set.¹⁵⁴

3.16. Qamets in the Tiberian Hebrew Tradition and Earlier Vowels

The articulation of *qamets* in THT, as indicated above, was /å/ (= IPA [5]). This vowel developed from two different historical vowels. The PS/PNWS short /a/ shifted to a long /ā/ at some point in the first millennium BCE. Its further transformation into /å/ took place sometime in the first millennium CE. Simultaneously, PS/PNWS short /u/ shifted first to /o/ in certain environments and then shifted further to /å/, making it identical in its articulation to the etymological */a/. Since the Tiberian Masoretes heard only one sound, they represented these two historical vowels with one symbol, the *qamets*. If we followed the Tiberian tradition more closely in our classroom pronunciation, we would not distinguish between *qamets gadol* (/a/) and *qamets qaton* or *qamets khatuf* (/o/). As mentioned earlier, our classroom pronunciation is influenced by modern Israeli Hebrew, which is, in turn, influenced by Sephardic tradition, which preserved the distinction between /a/ and /o/.

^{153.} Cited in Joüon, §18m. Note the similar loss of gemination and elision of the vowel "e" in the two alternative pronunciations of the participial form of English "listen": *lis-sen-ing* vs. *lis-ning*.

^{154.} I use the phrase "Shy queens swim alone," which, although not based in a colorful biblical act of mutilation, does include all the relevant letters (except *tsade*): *shin*, *yod*, *qoph*, *nun*, *samek/sin*, *vav*, *mem*, *lamed*.

That the two vowels (*/ā/ [<*/a/] and */o/ [<*/u/]), which would eventually be represented by *qamets* in the Tiberian tradition, were still distinguished in the first millennium BCE is reflected in, among other places, the orthography of the Dead Sea Scrolls. Note, for example, that nouns that are spelled with an initial *qamets* in THT but which we pronounce with an initial /o/ are spelled with a *vav mater* in the Scrolls. Consider the instances in the Temple Scroll (11Q19), where we find, for example, *A*ictic food" in LIX, 7 (cf. אָרָלָה in THT); חורבה "ruin" in LIX, 4 (cf. קרָבָּה in THT). By contrast, the verbs that are spelled with an initial *qamets* but which we pronounce as /a/ are spelled universally without a *vav mater*. In the same scroll (11Q19), we find, for example, אסרה "she binds" in LIII, 16 and passim (cf. אָסָרָה in THT); אָכָלָה "in THT);

3.17. Pausal Forms

As mentioned in the preface, pausal forms usually occur at the end of a verse (marked with the silluq symbol,), in the middle of the verse (marked by the *atnach* symbol,), and sometimes at the quarter point and three-quarter point of the verse (marked by the *zaqef* symbol,). Often pausal forms are accented on the penultimate syllable. If the word in pause is inflected in a way that would typically result in reduction of the historical short vowel in the penultimate syllable, the vowel is preserved and was (earlier) long: ישׁבֿתו "it will not stop" (Gen 8:22); ישׁבֿתו "they will go forth" (Gen 17:6); הִסְחָרו "you will trade" (Gen 42:34); דְּבָרֶך "your word" (Gen 30:34); שָׁלָחו "send!" (2 Kgs 2:17; cf. contextual שָׁלָחוּ). Also, in pause a short /a/ vowel that is accented will lengthen to $*/\bar{a}/$ as reflected in אָבֹתי as well as in אָבֹלִת "you eat" (Gen 3:11); אָבֹתי "my fathers" (Gen 49:29); and דְבַרֹיָד "your words" (1 Kgs 1:14). That such lengthening is not just a phenomenon connected with the Tiberian tradition but has roots in earlier stages of Hebrew is hard to determine but seems implied by the spellings in the Secunda (e.g., ובקע וישמרו], and ומאחאסע [יהללו] [Ps 89:32]).¹⁵⁵ Pausal forms of **qațl* segolates sometimes exhibit the original vowel, lengthened: לָםָשׁ "soul" (Job 3:20).¹⁵⁶ Conventionally it is believed

^{155.} Khan (*"Sere,*" 142) writes that *"Pausal lengthening of the stressed vowel took place sometime before the general lengthening of stressed vowels."*

^{156.} This commonly occurs with other nouns, but curiously, this does not happen with others like מֶׁלֶך "king," which exhibit both *segols* in pause. Steven Fassberg ("Why Doesn't *Melex* Appear as *Ma:lex* in Pause in Tiberian Hebrew?" [Hebrew], *Lešonenu*

that the pausal forms represent a slightly more archaic version of words. This is true especially as regards vowel reduction in verbs and the place of stress. That is, the pausal forms reflect the preservation of penultimate vowels in verbs and penultimate word stress, both of which would have been part of an earlier stage of Hebrew. However, as the above examples demonstrate, pause does not result in the retention of short vowels in propretonic syllables, nor in the preservation of vowels that are reduced already in the absolute form (e.g., אָבָראָל "and border" Josh 15:47). Furthermore, it is not always the case that the penultimate vowel that is lengthened in pause reflects the quality of the etymological vowel. Contrast *'ākilatu > micsilau >

3.18. Chapter Summary

Historical Details

- 1. The vowels of the Tiberian system are not exactly the ones we typically use in class. Nor do the vowels of the Tiberian system (or the ones we use in class) mirror exactly the vocalic system of earlier phases of Hebrew.
- Historical long vowels remained long in Biblical Hebrew (*/ō/ [< PNWS */ā/], */ī/, */ū/).
- 3. Historical short vowels */a/, */i/, and */u/ lengthened and/or lowered in tonic syllables in most nouns and some verbs: *dabaru > *dābār (> ; בָרָ כָּרָ) "word" and *barakatiyya > *barkātī (> *birkātī > 'בָרָ כָּרָ) "my blessing"; *kabida > *kābed (> ; בְרָכָתִי) "it is heavy" (qal 3ms qåṭal/ms adj.) and *yaktubu > *yiktob (> ; יִכְהּוֹב) "he will write." (Note the exceptions: in many verb forms, historical /a/ remained /a/, e.g., *kataba > *kātab [: יִבָּרַב] "he wrote," *yikbad [> ; יִבוֹב] "it will be heavy").

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^{64 [2002]: 207–19)} has proposed that this is in order to avoid a pronunciation of the word that would make it too close to the word "Moloch."

^{157.} Notice also that although the verbs in pause often seem to reflect a more archaic morphology (שְׁמֵחָהוּ "it gladdened him" Jer 20:15 instead of i-), such archaic features may in fact be secondary, as is suggested in places where a *nun* does not assimilate (e.g., הָנְצְרֵרָנָ, "you guard me" Ps 140:2). For more on pause, see the article (with references) by Steven E. Fassberg, "Pausal Forms," *EHLL* 3:54–55.

- 4. Historical short */a/ and */i/ lengthened to */ā/ and */ē/ respectively in pretonic open syllables: *dabaru > *dābār (> דָבְרִים) "word," *dabarīma > *dəbārīm (> דְבָרִים) "words," *kabidīma > *kəbēdīm (> בְּבַרִים) "heavy"; *kataba > *kātab (בְּבַרִים) "he wrote" and *yaqūmu > *yāqūm (> יָקוֹם <) "he will arise."
- 5. Historical short vowels reduced to shewa or elided in open syllables that were both nontonic and nonpretonic: *dabarīma > *dabārīm (> דְּבָרִים) "words" and *barakatiyya > *barkātī (> birkåti = בָרָבָתִים) "my blessing."
- 6. Compensatory lengthening occured most regularly with *aleph* and *resh* and then, in order of decreasing frequency, with *ayin*, *he*, and *khet*. If a vowel was compensatorily lengthened, it did not reduce in an open propretonic syllable.

7.	A very hypothetical sequence	of some of	of the phenomena dis-
	cussed above is presented here:		1
	Canaanite Shift		ca. 1500 BCE
	Triphthong contraction		ca. 1500 BCE
	Loss of final short vowels		ca. 1000 BCE
	Feminine *- <i>at</i> > *- <i>a</i> > *- <i>ā</i>		ca. 1000–500 BCE
	Tonic lengthening/lowering		ca. 800–300 BCE
	Merger of /ś/ and /s/		ca. 600–400 BCE
	Pretonic lengthening/lowering		ca. 500–300 BCE
	Spirantization		ca. 500 BCE-200 CE
	Vowel reduction		ca. 400 BCE-400 CE
	Compensatory lengthening of		
	geminated gutturals		ca. 300 BCE-100 CE
	Epenthesis		ca. 300 BCE-200 CE
	Merger of /ġ/ and /ʿ/		ca. 200 BCE-1 BCE
	Merger of /ĥ/ and /ĥ/		ca. 100 BCE-200 CE.

Learning Tips

- 1. Memorize the basic rules for syllables and vowels for Biblical Hebrew, especially the fact that:
 - 1.1. a nontonic open syllable can have only a *shewa* (**lamməlākīm* [> לְמְלָרִים' (for the kings") or a long vowel (**lamməlākīm* [> [לַמְלָרִים])
 - 1.2. a nontonic closed syllable can have only a short vowel (**lamməlākīm* [> לַמָּלָכִים])

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- 1.3. often, a tonic syllable will have a long vowel (reflected in THT by qamets, tsere, hireq, holem, shureq) (*lamməlākīm [> לַמָּלָכִים])
- 1.4. often, a pretonic open syllable will contain */ā/ or */ē/ (THT qamets or tsere) (*lamməlākīm [> לַמָּלָכִים]).
- Remember that when a word bears a pronominal suffix or morpheme at its end, it typically will exhibit a form closer to its older, historical form. This is mentioned in relation to the shift from */-at/ of feminine singular nouns to */-ā/, where the earlier ending emerges in the construct and with suffixes (e.g., מַלְבָּתָה "her queen" [< *malkatah]), but this also occurs with geminate nouns (e.g., חַקִים "statutes" [< *huqqīma]) and with singular segolate nouns with suffixes (e.g., מַלְבָּתִים "my king" [< *malkiyya]), as detailed in the next chapter.
- Learn the basic rudiments of the PS/PNWS vowel system: three long vowels (*/ī/, */ā/, */u/) and three short vowels (*/i/, */a/, */u/).
- 4. Learn to recognize the origin of most Tiberian vowels:
 - 4.1. *hireq* (with *yod*) usually derives from */ī/ while *hireq* (without *yod*) derives from */i/
 - 4.2. *tsere* derives from */i/ (or the contraction of */ay/)
 - 4.3. *segol* derives from */i/ (or from */a/ in segolate nouns like מֶׁלֶה)
 - 4.4. patakh and qamets derive from */a/ (unless the qamets occurs in a closed, unaccented syllable, in which case it derives from */u/, as in הְרֵמָה "wisdom")
 - 4.5. shureq derives usually from */ū/
 - 4.6. *qibbuts* usually derives from */u/ and somewhat less often from */ū/
 - 4.7. a muttered vowel (*shewa*) may derive from any short vowel in a historical open syllable.
- 5. Mnemonic Aids
 - 5.1. "Shy queens swim alone"—the consonants (+ *tsade*) that optionally lose their *daghesh* when followed by a *shewa*.
 - 5.2. הָהָרִים exhibits the shift of historical */a/ to /ɛ/.

4 Morphology of Ancient Hebrew: The Noun

4.1. Morphology of the Hebrew Noun

In Biblical Hebrew, the morphology of the noun overlaps with the morphology of adjectives, with that of some adverbs, as well as with that of *qal* participles and infinitives. Here and in the charts that follow in chapter 6, these categories of words will be treated together. Moreover, the following pages categorize these words according to which abstract pattern they belong (i.e., **qal*, **qil*, **qul*, etc.), patterns that reflect their etymological bases. The abstract patterns, however, are not necessarily identical to their earliest forms. This pertains especially to II-*vav/yod* roots. For example, the *qal* participle of II-*vav/yod* roots is categorized under **qal* (e.g., **qam*) not **qatal* (**qawam*) or **qāl* (**qām*).¹ At the same time, the abstract patterns represent a form of the words long before the vowel reduction and lengthening associated with BH (e.g., Ţ*qatal* or *qāţāl* or *qāţāl*).²

It should be admitted at the beginning that attributing a given noun to a particular base is difficult because the different traditions of Hebrew often do not reveal consistency. What appears to be of the *qatl base in THT (e.g., גָפָן "vine") appears to be of the *qutl base in the DSS (גופן) in 1QIsa^a at Isa 34:4).³ In truth, even the Hebrew Bible reveals different bases

^{1.} This follows the method of Huehnergard, "Biblical Hebrew Nominal Patterns," 29-30. If the vowel was long in the immediate ancestor to BH, it would have presumably become $/\bar{o}/$ through the Canaanite Shift. Still, such forms would have contained a long vowel in an earlier version of Northwest Semitic (see ibid., 29 n. 7).

^{2.} As noted in the preface, the paradigmatic root is *qtl (and not *qtl), since the form with *tav* is likely the earliest form of this root (reflected in, e.g., Akkadian, Arabic, and Ethiopic).

^{3.} See Reymond, Qumran Hebrew, 171-74.

for what seems to be the same word: לֹמָת "lack" (**qatl* or **qitl*) versus לֹמָר "lack" (**qutl*).⁴ When comparative evidence from other languages is considered, categorization becomes even more complex. In what follows, I make an educated guess about the base of the words informed especially by Hebrew evidence. It seems possible that at least for some words there were byforms from earliest times (e.g., לָּגֶרָ "way" < **dark* and/or < **dirk*).⁵

Although learning the base of words along with their meaning and inflection seems like an added burden for the student, these base patterns are rather limited in number and offer at least two advantages to the intermediate student. First, learning the basic outline of the system will allow the student to more easily remember vocabulary. For example, learning that short words ending in *tav*, like דָּעָה , are often from I-*vav/yod* roots helps to recall that this word is from ידע and means "knowledge." Second, nouns of a common base pattern inflect in the same way; thus, learning that the segolate nouns (those of the **qatl*, **qitl*, and **qutl* bases) exhibit the sequence of vowels **a*- \bar{a} in the absolute plural allows one to predict the correct plural form for a diverse set of nouns including יָּלֶכָה "queen," בָּמֶכָה "king," הַמְעָה "sickness," דְּמָעָה "tears," and the same, it should be recognized that it is likely impossible to remember all the details laid out in the following pages.

4.2. Case and Number in Second-Millennium Northwest Semitic

In addition to those phonological developments mentioned in the preceding chapter, morphological developments mark a distinction between second-millennium BCE Canaanite languages and first-millennium BCE Hebrew. First, the earlier languages or dialects would have had three numbers: singular, dual, and plural. Although Hebrew preserves some examples of the dual (e.g., יָרָוֹת "two hands" vs. "(multiple] hands"), this would have presumably been a more productive category in the second millennium BCE and would have also been reflected in verbal morphology, through which it would have been possible to communicate not only the ideas "s/he wrote" and "they wrote," but also "two (people) wrote."

In addition, the earlier second-millennium NWS languages had a case system. This system allowed speakers to distinguish three basic functions

^{4.} See the list of similar forms in Sperber, *Historical Grammar*, 30–31. Similarly, the MT evidences many words that differ essentially only in their gender (ibid., 22–30).

^{5.} Huehnergard, "Biblical Hebrew Nominal Patterns," 39.

of nouns in a sentence. Nouns that functioned as the grammatical subject of a verb were marked as distinct from nouns that functioned as the grammatical object of the verb and these were both distinct from nouns that were the last in a construct chain or that came after prepositions.⁶ In outline, the case system for this version of proto-Hebrew would be similar to the case system known from Ugaritic.⁷ The grammatical subject of a sentence is said to be in the nominative case, the grammatical object in the accusative case; the word after a construct form or after a preposition is in the genitive case. With respect to Ugaritic, on masculine singular absolute nouns, final short -u marked the nominative, -i marked the genitive, and -a the accusative (e.g., *malku, *malki, *malka "king"); on masculine dual absolute nouns final -āmi marked the nominative and -ēmi (from < *-aymi) marked the genitive and accusative (*malkāmi, *malkēmi [< *malkaymi] "two kings").8 Feminine nouns in the singular and dual absolute had endings analogous to those of the masculine singular and dual absolute, though the feminine nouns incorporated the feminine morpheme -at or -t. As for the plurals, on masculine plural absolute nouns -ūma marked the nominative and -īma marked the genitive/accusative (*malakūma, *malakīma "kings"); on feminine plural absolute nouns -ātu marked the nominative and -āti the genitive/accusative.9 The case vowels also appeared on nouns in the construct state. For the singular noun, they were the same as the absolute form; for the dual and the masculine plural,

^{6.} In the sentence, וֹיָד אֶת־הַפְּלִשְׁתִי אֶל־מִצְחוֹ "he (i.e., David) struck the Philistine (i.e., Goliath) on his forehead" (1 Sam 17:49), the grammatical subject is "he (i.e., David)"; the grammatical object is "the Philistine (i.e., Goliath)"; the word "his forehead" follows the preposition "on."

^{7.} The vowels of Ugaritic are known not only from Sumero-Akkadian cuneiform transliterations of Ugaritic words, but also the Ugaritic cuneiform script that marks the vowel following any *aleph* consonant; i.e., in Ugaritic cuneiform there is one symbol for *aleph* followed by /a/, another symbol for *aleph* followed by /i/, and a third symbol for *aleph* followed by /u/. For examples of ancient word lists from Ugarit written in Sumero-Akkadian cuneiform, where individual words are listed in different columns according to language (like a primitive dictionary), see John Huehnergard, *Ugaritic Vocabulary in Syllabic Transcription*, 2nd ed., HSS 32 (Winona Lake, IN: Eisenbrauns, 2008).

^{8.} The endings on the dual are also attested, respectively, as *-āma* and *-ēma* (see ibid., 298–99, 402). I have based this paradigm on that of Pierre Bordreuil and Dennis Pardee, *A Manual of Ugaritic*, LSAWS 3 (Winona Lake, IN: Eisenbrauns, 2009), 32.

^{9.} Alternatively, there was just one vowel within the stem of such plural nouns: **malkūma*, **malkīma* (see Bordreuil and Pardee, *Manual of Ugaritic*, 34).

the construct forms lost the final *-mi* or *-ma*: dual *-ā* (nom.), *-ē* (< **-ay*) (gen./acc.) and masculine plural *-ū* (nom.), *-ī* (gen./acc.).¹⁰ It is likely that in the southern dialect of NWS spoken near the end of the second millennium BCE, the diphthongs were still preserved, unlike in Ugaritic. Thus, the dual genitive/accusative ending on a masculine dual noun would have been *-aymī* in the absolute and *-ay* in the construct.

Presuming a stem **dabar*, one may postulate the following hypothetical paradigm for the absolute and construct forms, based on the Ugaritic paradigm for nouns. The * \bar{a} reflects the PS/PNWS vowel, before the Canaanite Shift.

		Masculine	absolute	
	singular		dual	plural
nom.	*dabaru	nom.	*dabarāmi	*dabarūma
gen.	*dabari	gen./acc.	*dabaraymi	*dabarīma
acc.	*dabara			
		Feminine	absolute	
	singular		dual	plural
nom.	*dabaratu	nom.	*dabaratāmi	*dabarātu
gen.	*dabarati	gen./acc.	*dabarataymi	*dabarāti
acc.	*dabarata			
		Masculine	construct	
	singular		dual	plural
nom.	*dabaru	nom.	*dabarā	*dabarū
gen.	*dabari	gen./acc.	*dabaray	*dabarī
acc.	*dabara			
		Feminine c	construct	
	singular		dual	plural
nom.	*dabaratu	nom.	*dabaratā	*dabarātu
gen.	*dabarati	gen./acc.	*dabaratay	*dabarāti
acc.	*dabarata			

10. See ibid.

In essence, the inflected forms of the noun were composed of the stem (**dabar*) followed by the appropriate suffixal morpheme.

At some point close to the end of the second millennium BCE, the final short vowels on nouns and verbs ceased being pronounced. As described above in chapter 3, this meant that there was no longer a distinction in the singular noun between the different cases. This, in turn, led to the obsolescence of the entire case system (even though it would have been possible to continue distinguishing certain forms in the dual and plural, e.g., where the form ended with a long vowel). In short, speakers used fewer forms to communicate. Instead of having two forms to express the masculine plural absolute, speakers used just one. They ended up using the form that had previously marked the genitive/accusative case (i.e., **dabarīm* [< **dabarīma*]). Similarly, instead of four forms to express the masculine dual and plural construct, speakers used just one. Again, they ended up using the form that once marked the genitive/accusative case, specifically the form that once marked exclusively the dual (i.e., **dabaray*).

The new forms and their relationship to the preceding paradigm can be more easily grasped from looking at the following chart that duplicates the earlier paradigm, though in the following the obsolete aspects of the paradigm have been crossed out. Forms that are identical to other forms are put in parentheses after their first appearance.

		Masculine	absolute	
	singular		dual	plural
nom .	*dabar u	nom .	* dabarāmi	* dabarūma
gen .	(*dabar i)	gen ./ acc .	*dabaraym i	*dabarīm a
acc .	(*dabar a)			
		Feminine	absolute	
	singular		dual	plural
nom .	*dabarat u	nom .	* dabaratāmi	*dabarāt u
gen .	(*dabarat i)	gen ./ acc .	* dabarataymi	(*dabarāt i)
acc .	(*dabarat a)			
		Masculine	construct	
	singular		dual	plural
nom .	*dabar u	nom .	* dabarā	* dabarū

gen .	(*dabar i)	gen ./ acc .	*dabaray	* dabarī
acc.	(*dabar a)			
		Feminine c	onstruct	
	singular		dual	plural
nom .	*dabarat u	nom .	* dabaratā	*dabarāt u
gen .	(*dabarat i)	gen ./ acc .	* dabaratay	(*dabarāt i)
acc .	(*dabarat a)			

The absolute form of masculine plural nouns in the genitive/accusative case developed into the absolute form of masculine plural Hebrew nouns: *dabarīma > *dabarīm > *dəbārīm > דְבַרִים (words." In a similar way, the genitive/accusative ending for dual nouns in construct (*-ay) became the standard ending for masculine plural nouns in construct in Hebrew as well as for masculine plural nouns with pronominal suffixes. That is, what would have been *dabaray "two words of" (in the gen./acc. case) became the basis of the plural construct: *dabaray "(multiple) words of," which through the process of diphthong contraction and vowel reduction would have subsequently become * dabre and then in THT (as well as BHT) דְּבָרִי. This same form was used also for the plural form with pronominal suffixes: *dabarayya "my two words" (in the gen./acc. case) became *dabaray and then **dəbāray* "my (multiple) words," before finally becoming דברי.¹¹ Due to the ubiquity of this *yod* in the masculine noun, even feminine plural nouns bear the same *yod*, though this has no precedent in the earlier morphology of NWS: *barakātaka > בָּרְכוֹתִיך "your blessings."

As illustrated below, the singular noun with pronominal suffixes also seems to retain some vestige of the older morphology. The initial vowels of the pronominal suffixes likely derive from the earlier case vowels on the singular noun. Thus, the vowel of the genitive case seems to have led to the initial $/\bar{e}/$ of the first-person common plural suffix: **dabar* + *i* + $n\bar{u} >$ **dabarin* $\bar{u} >$ **dabārēn* \bar{u} (> \bar{f} , \bar{f} , \bar{f} , \bar{u}) "our word."

This historical explanation also helps make sense of the form of dual nouns in later Hebrew. The Biblical Hebrew absolute form (יְדָיׁיָם "two hands") derives from the genitive/accusative form of the absolute (i.e., **yadaym* vs. the abs. dual nom. **yadāmi*). The BH construct form (יְדָיׁ "two hands of") derives from the construct form of the genitive/accusative case

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^{11.} See Blau, Phonology and Morphology, 170.

(i.e., **yaday* vs. the const. dual nom. **yadayā*); the dual with suffix derives from the same historical form (**yadayya* > יָדִי "my two hands").¹² In Biblical Hebrew, the dual construct and the dual with pronominal suffix look like the corresponding masculine plural forms, such that sometimes they are confused. For example, יְדֵיהֶם will sometimes be translated by students as if it meant "their (multiple) hands" and not more specifically "their two hands." (The pl. would be יְדֵוֹתְם "their [multiple] hands"). The fact that the dual + suffix looks like the plural + suffix in BH is no coincidence; the masculine plural endings in BH derive from the earlier (second millennium BCE) dual endings.¹³

The transformation of the feminine forms is less confusing than that of the masculine. First, note that in the above charts, the vowel in the feminine plural morpheme is $*/\bar{a}$; by the time of Hebrew in the first millennium BCE (and likely much earlier), that vowel had shifted to $*/\bar{o}$ / through the Canaanite Shift. Thus, the plural absolute and construct forms would both be $*dabar\bar{o}t$ (not $*dabar\bar{a}t$). Other than this, however, the feminine nouns are easy to understand. In essence, with the loss of case vowels, the singular forms (both absolute and construct) sounded the same; similarly, all the feminine plural forms sounded the same.

Although the exact realization of these words might have been different in the early first millennium BCE, it is pedagogically useful to imagine them in this hypothetical way since it helps make sense of their later forms, especially in light of the phonological shifts described earlier. Each of these basic entities (i.e., sg. abs., sg. + pronominal suf., sg. const., pl. abs., etc.) experienced the phonological shifts described in the preceding chapter. For example, **dabarīm* "words," **dabarēnū* "our words," and **dabarē* (const.) "words of" all experienced vowel reduction of */a/ and */i/ to *shewa* in open syllables that were nontonic and nonpretonic, as well as lengthening of */a/ and */i/ vowels in open pretonic syllables. Thus, **dabarīm* became **dabarīm* (vowel reduction) and then *dabārīm* (pretonic lengthening) (> דָבָרִים).¹⁴ Similarly, **dabarēnū* became **dabarē-* became **dabrē-*

^{12.} These may be contrasted with the plural forms of the same word: abs. יָדוֹת "hands"; const. יְדוֹת'; suf. יְדוֹת'.

^{13.} It goes without saying that the BH dual endings also derive from the earlier second millennium BCE dual endings.

^{14.} These different shifts are imagined as occurring in this sequence simply for the sake of clarity.

(as reflected in $\delta \alpha \beta \rho \eta$ "words of" in the Secunda at Ps 35:20) which, in turn, became דָבְרֵי (perhaps due to analogy with other nominal forms).

4.3. Noun Patterns

As explained above, nouns/adjectives in this study are categorized according to their etymological base patterns, since this helps elucidate certain underlying semantic and inflectional similarities and allows the student who has learned these patterns to more easily inflect the related words.¹⁵ Hebrew nouns are categorized according to how many root consonants they attest and the number and nature of their vowels. (E.g., one category consists of nouns with two root consonants and a short vowel between them, another of nouns with two root consonants and a long vowel between them, yet another of nouns with three root consonants and a single short vowel between them, etc.) Each of these general categories is then broken down into subcategories, reflecting the etymological PNWS vowels, usually listed in the sequence according to the vowel: */a/, */i/, */u/ (e.g., **qal*, *qil, *qul; *qāl, *qīl, *qūl; *qatal, *qatil, *qatul; *qital, *qutal, *qutul). With each of these smaller subcategories are associated feminine forms, that are derived from these bases through the suffixing of a -t or *-at morpheme (e.g., *qalt and *qalat, *qilt and *qilat, *qālat, *qīlat, *qūlat; *qatalat, *qatilt and **qatilat*).

In most cases, each general category of noun exhibits a common inflection. For example, all segolate nouns/adjectives, that is, those of the base pattern *qatl (e.g., לָלֶך "king"), *qitl (שָׁלָר", book"), *qutl (שָׁלָר", exhibit the vowel sequence *a- \bar{a} (corresponding to the symbols shewa-qamets in THT) in the absolute plural. This also includes feminine forms and words from weak roots. Usually, where there is some distinction among the different subcategories of bases, it is the form with an */a/ vowel that exhibits idiosyncracies. Forms with an */i/ or */u/ vowel usually have similar inflections, reflecting the vowels' common place of articulation, with the tongue raised to the roof of the mouth.

In the charts in chapter 6, the various forms of nouns and adjectives (as well as *qal* verbal nouns and adjectives = infinitives and participles) are documented, beginning with the shortest (**qal*) and progressing to the

^{15.} Another method is to list the nouns/adjectives according to their realization in BH.

more complex (e.g., **qātil*). The pages that follow in this chapter, however, follow a different sequence. First, I illustrate the inflection of three of the most common nominal base patterns in both their masculine (**qatal*, **qatil*, **qital*) and feminine forms (**qatalat*, **qatilat*). Next, I detail the inflection of bases with just two attested root consonants (**qal*, **qil*, **qul*, etc.), before addressing other base patterns with three root consonants (e.g., **qatul*, **qatāl* and **qutul*, **qitāl*, **qutāl*). In the next sections, I address nouns with preformative and afformative elements. Next, common features of weak roots are isolated. Then, I address two idiosyncratic noun classes: geminate nouns (e.g., **qall*) and segolate nouns (e.g., **qatl*).

4.4. Inflection of Basic Masculine and Feminine Nouns (Tables 6.15, 6.16, 6.17)

Here and in what follows, a basic masculine noun refers to a noun of a strong root with one of the base patterns **qatal*, **qatil*, or **qital*. Although classified as "nouns," note that many words of these bases are better construed as adjectives (e.g., חָבָר "strong"; "cwise"; בְּבָד "heavy"; "weary"). In particular, the **qatil* base is associated with adjectives and the participle of stative verbs (e.g., בְּבֵד "one who is heavy"; "one who is old").

In most cases, the nouns of the **qatal*, **qatil*, or **qital* bases follow predictably the vowel shifts outlined in the previous chapter: loss of final short vowels, tonic-vowel lengthening/lowering, pretonic-vowel lengthening/lowering, vowel reduction in open syllables that are both nontonic and nonpretonic. As illustrated above, these vowel shifts affect both singular and plural forms, as well as nouns in construct and with suffixes. For construct forms (both sg. and pl.), nouns appear as though all their syllables are nontonic and nonpretonic. For singular nouns with suffixes, a vowel intercedes between the stem and the pronoun, likely deriving from the earlier genitive or accusative case vowel. For most plural nouns with pronominal suffixes, the genitive/accusative case ending of the masculine dual construct, *-*ay*-, intercedes between the stem and pronoun. Note the following examples, which represent a simplified way of reconstructing the forms.

```
*dabaru > *dābār (> דְּבָר) "word"
*dabaru > *dəbar (> דְּבַר <) "word of"
*dabar + i + ya > *dabariy > *dabarī > *dəbārī (> דְּבַר' ) "my word"
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```
*dabar + a + ka > *dabaraka > *dəbārakā > *dəbārəkā (> דְּבַרָדָ) "your
        word"<sup>16</sup>
    *dabar + i + ki > *dabarik > *dəbārēk (> דְּבָרֶךָ) "your word"
    *dabar + a + hu > *dabarahu (> *dabaraw) > *dəbārō (> דָברוֹ) "his
        word"17
    *dabar + a + ha > *dabarah > *dəbārāh (> דָּבַרָה) "her word"
    *dabar + i + nū > *dabarinū > *dəbārēnū (> דְּבַרֶנוּ) "our word"
    *dabar + ? + kum > * dabarkim > * dabarkem (> דברכם) "your word"<sup>18</sup>
    *dabar + ? + kin > *dabarkin > *dəbarkɛn (> דְבַרְבָן) "your word"
    *dabar + a + (hu)m > * dabaram > * dabarām (> Their word") "their word"
    *dabar + a + (hi)n > * dabaran > * dabaran (> Ţברן) "their word"
*dabarīma > *dəbārīm (> דָּבַרִים) "words"
*dabaray > * dabr\bar{e} (> dibre = דברי) "words of"
    *dabar + ay + ya > * dabaray > * dabāray (> דָברי) "my words"
    *dabar + ay + ka > *dabarayka > *dəbārekā (> דָברִיָד) "your words"<sup>19</sup>
    *dabar + ay + ki > *dabarayk > *dəbārayk (> דְבָרַיִד) "your words"
    *dabar + ay + hu > *dabarawhu (> *dabarawwu) > *dabaraw >
        *dəbārāw (> דָבריו) "his words"<sup>20</sup>
    *dabar + ay + ha > *dabarayha > *dəbārehā (> דְּבָרִיהָ) "her words"
    *dabar + ay + nū > *dabaraynū > *dəbārēnū (> דְּבַרִינוּ) "our words"
    *dabar + ay + kum > *dabaraykim > *dabrēkɛm (> dibrekɛm = דְּבְרִיכֵם)
        "your words"
    *dabar + ay + kin > *dabaraykin > *dabrēken (> dibreken = דבריכן)
        "your words"
    *dabar + ay + hum > *dabarayhim > *dabrēhɛm (> dibrehɛm = דְּבְרֵיהֵם)
        "their words"
    *dabar + ay + hin > *dabarayhin > *dabrēhen (> dibrehen = דְּבְרֵיהֵן)
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*dabar + ay + hin > *dabarayhin > *dabrehen (> dibrehen = (דְּבְרֵיהֶן) "their words"

^{16.} See ch. 3 5, "Lengthening of Pretonic */i/ and */a/ Vowels and the Place of Stress" and 5, "Peculiarities of Some Suffixes," below.

^{17.} See Garr, *Dialect Geography*, 103 and note the alternative explanations listed in Jeremy Hutton, "Epigraphic Hebrew: Pre-Roman Period," *EHLL* 1:838.

^{18.} The spirantized *kaph* of the pronoun would seem to imply a preceding vowel in this and the following form.

^{19.} One would expect $/\bar{e}/$ to be the result of a contraction of /ay/, as in the 1cp pronominal suf. See ch. 3 \$12, "Triphthongs and Diphthongs."

^{20.} See Garr, Dialect Geography, 108.

*sadaqatu > *sədāqā (> צדקה) "righteousness" *sadaqatu > *sadqat (> sidqat = צָרָקָת) "righteousness of" *sadaqat + i + ya > *sadqatiy > *sadqātī (> sidqåti = צָדְקָתִי) "my righteousness" *sadaqat + a + ka > *sadqataka > *sadqātakā > *sadqātəkā (> sidqåtkå = צְּדְקָתָד) "your righteousness" *sadaqat + i + ki > *sadqatik > *sadqātēk (> sidqåtek = צָּדְקָתָן) "your righteousness" *sadaqat + a + hu > *sadqatahu > *sadqātaw > *sadqātō (> sidqåto = שדקתו) "his righteousness" *sadaqat + a + ha > *sadqatah > *sadqātāh (> sidqåtåh = צַרְקָתָה) "her righteousness" *şadaqat + i + nū > *şadqatinū > *şadqātēnū (> şidqåtenu = צְּדְקַתְּנוּ) "our righteousness" *sadaqat + ? + kum > *sadqatkim > *sadqatkem (> *sidqatkem = צְדְקַתְכֵם) "your righteousness" *sadaqat + ? + kin > *sadqatkin > *sadqatken (> sidqatken = צְּדְקָתְכָן) "your righteousness" *sadaqat + a + (hu)m > *sadqatam > *sadqātām (>sidqåtåm = צָּדְקָתַם) "their righteousness" *sadaqat + a + (hi)n > *sadqatan > *sadqātān (> sidqåtån = צָדְקָתָן) "their righteousness" *sadaqātu > *sədāqōt (> צָּדַקוֹת) "righteousnesses" *sadaqātu > *sadqōt (> sidqot = צָּדְקוֹת) "righteousnesses of" *sadaqāt + ay + ya > *sadqōtay (> sidqotay = צָדְקוֹתֵי) "my righteousnesses" *şadaqāt + ay + ka > *şadqōtayka > *şadqōtekā (> şidqotekå = צָּדְקוֹתִׁיָדָ) "your righteousnesses" *sadaqāt + ay + ki > *sadqōtayk (> sidqotayk = צָּדְקוֹתַיָך) "your righteousnesses" *sadaqāt + ay + hu > *sadqōtawhu (> *sadqōtawwu) > *sadqōtaw > *sadqōtāw (> sidqotåw = צָרְקוֹתיו) "his righteousness" *sadaqāt + ay + ha > *sadqōtayaha > *sadqōtehā (> sidqotehå =

(צְּדְקוֹתִיהַ) "her righteousnesses"

- *sadaqāt + ay + nū > *sadqōtaynū > *sadqōtēnū (> sidqotenu = נְצָדְקוֹתֵׁינוּ) "our righteousnesses"
- *sadaqāt + ay + kum > *sadqōtaykim > *sadqōtēkem (> sidqotekem = אָדָקוֹתֵיכֶם) "your righteousnesses"

- *sadaqāt + ay + kin > *sadqōtaykin > *sadqōtēken (> sidqoteken = נאַדְקוֹתֵיבֶן) "your righteousnesses"
- *sadaqāt + a + (hu)m > *sadqōtām (>sidqotåm = צְּדְקוֹתָם) "their righteousnesses"
- *sadaqāt + a + (hi)n > *sadqōtān (> sidqotån = צְּדְקוֹתָז) "their righteousnesses"

In almost all the singular forms above, the tonic syllable has a long vowel and the pretonic syllable is open and also has a long vowel. Excluding the forms plus second-person masculine singular suffix, the exceptions occur with heavy suffixes that consist of the sequence consonant + vowel + consonant (e.g., \neg -). In these cases, the tonic syllable has a short vowel and the preceding syllable is closed with a short vowel. The stem of the noun with a heavy suffix often matches the stem of the construct form. In most plural nouns with suffix, the pretonic syllable is also open and has a long vowel. The exceptions again occur where the suffix is heavy.

The above discussion has focused on nouns with two */a/ vowels in their stem (i.e., of the pattern **qatal*), but the same developments and inflections also pertain to words with the patterns **qatil* and **qital*. In the case of nouns of the **qatil* base, the singular construct form usually is (somewhat unexpectedly) like that of nouns of the **qatal* base. Thus, the singular construct form of וְכָוֹ is וְכָוֹ is 'ielder of.'' The other forms of **qatil* base nouns, however, do not exhibit the shift of /a/ to /i/ (e.g., יוְכָנִים, etc.).²¹

Feminine singular nouns in the construct and with suffixes generally are either marked with final *-t* or final **-at*. The absolute form is the only form to end with $*-\bar{a}$ (> -a). Although it is not expected from its etymology, the feminine plural noun often incorporates the dual component **-ay*-before suffixes. We do not expect such a component since this is peculiar to masculine (dual) nouns (in the gen./acc. case), not the feminine. In fact, the third-person masculine plural and feminine plural suffixes often are not preceded by this syllable.

The feminine nouns (and adjs./stative ptcs.) of the *qatilat base are unusual in that they often do not exhibit vowel reduction of the histori-

^{21.} Singular nouns of the **qatil* base with suffixes are especially uncommon; nevertheless, note, e.g., יְרֵכָי "my thigh"; יְרֵכָי "your thigh"; יְרֵכִי "his thigh"; יְרֵכָי "her thigh"; יְרֵכָי "their shoulder." The plural forms are more common: יְרֵכָנִי, זְקַנִינוּ זְקַנֵי וְקַנְיָרָ

cal */i/ vowel. Thus, the noun בְּרֵכָה "pool" (pl. abs. בְּרֵכוֹת) exhibits no reduction in the singular construct form בְּרֵכָת or in the plural construct form גְּנֵכְתוּ Similarly, with suffixes, the */ē/ (corresponding to the symbol *tsere* in THT) appears in the propretonic open syllable: גְּנֵכְתוּ "his theft," גְּנֵכְתוּ "your full harvest." Note also with adjectives מְלֵאָת (abs. מְלֵאָת) and מְלֵאָת (abs. מְלֵאָת) and מְלֵאָת (abs. מְלֵאָת) and הַלֵאַת (abs. מְלֵאָת). There are exceptions to this, including the word מְלֵאָת (carcass," which usually appears with the expected vowel elision and shift of initial */a/ to /i/ (e.g., const. גָּבְלָתוֹ, וֹבְלָתוֹ).²² Note, however, the form גָּבֶלָתי

4.5. Peculiarities of Some Possessive Suffixes

Note that although most suffixes that occur on the single consonantal prepositions (i.e., \ddagger "in, with" and \ddagger "to") are analogous to those suffixes that occur on singular nouns, there are four slight distinctions between the two paradigms. In each case, the suffix on the preposition takes an */ā/ connecting vowel and the suffix on the noun takes */ē/ or no vowel:

- דָמָך "to you (fs)" versus יְמָד "your (fs) blood"
- יַדְׁנוֹ to us" versus יָדְׁנוֹ "our hand"
- דַמְכֵם "to you (mp)" versus לְכֵם (= dimkɛm) "your (mp) blood"
- יָדָם "to them (mp)" versus לָהֶם
 יָדָם their hand."23

The third masculine singular suffix occasionally appears with a *he mater*, instead of a *vav mater* (e.g., כָּלָה "all of it" 2 Sam 2:9). This seems to be an inheritance from an earlier orthography, reflected in First Temple era ostraca and inscriptions, where the third-person masculine singular pronominal suffix was uniformly written with a *he mater*. The earlier form of the suffix, *-*ahu* (which became *- \bar{o} [perhaps due to elision of the *he* and contraction of the two vowels]), helps explain the use of *he* as a *mater* for this pronominal suffix. All the same, note that word final *- \bar{o} was also marked with *he* in the infinitive absolute of III-*vav*/*yod* verbs (e.g., רָאָה", "seeing"), as well as in words like פּרָשָׁה "Pharaoh."²⁴

^{22.} Nouns of the **qitalat* base are rare.

^{23.} In addition, the 2fp and 3fp suffixes show a similar distribution between preposition and noun.

^{24.} See Eric D. Reymond, "The 3ms Suffix on Nouns Written with Heh Mater," in "Like 'Ilu Are You Wise": Studies in Northwest Semitic Languages and Literatures in

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The second-person masculine singular suffix on prepositions and nouns exhibits different vowels depending on whether it appears in context or pause. Most students learn the contextual form as part of the paradigm: קר "to you (ms)" and דָרָ "your (ms) blood." In pause, the preposition plus second-person masculine singular suffix is identical to the second-person feminine singular suffix (in pause or context): דָלָ "to you (ms in pause or fs in pause or context)." In pause, the singular noun plus second-person masculine singular suffix attests an /ɛ/ (instead of *shewa*) after the last consonant of the word's stem: דְּבֶלֶ "your (m.s.) blood"; דְבֶלֶ "your word"; יַעָּמָהָדָ" "your counsel."

According to the rules of vowel reduction outlined above, the contextual form of the noun plus suffix is a bit difficult to account for; that is, יִדָדָ < $y\bar{a}da'k\bar{a}$ seems to evidence vowel reduction in the pretonic syllable and vowel lengthening in the propretonic syllable. This likely reflects an earlier form with a full short vowel in the penultimate syllable, which was accented (*yadaka > *yaⁱdaka); the accent subsequently shifted to the final syllable and the formerly accented /a/ vowel reduced $(*y\bar{a}d\partial'k\bar{a})^{.25}$ That the historical form of the suffix contained a preceding full vowel, not shewa (e.g., *-aka) is suggested by the Secunda, where we find ιεσαγα (cf. קשעד [analogous to a pausal form, though in the MT it should be a contextual form]) "your salvation" (Ps 18:36) and elsewhere a shorter form, σεδκαχ (cf. צְּדָלֶך, in pause) "your righteousness" (Ps 35:28).26 It seems possible that a form like דְבָרָדְ would have been articulated as something like dəbārak (with ultimate accent) in the era from 200 BCE to 100 CE (especially since this seems to reflect RH). However, the presence of a long vowel after the *kaph* in this same time period (i.e., $*/\bar{a}$), like that implied by the THT *qamets*) is presupposed by the many spellings of the suffix in the DSS with a final he mater: דברכה "your word" (e.g., 1QH^a XII, 36), implying perhaps the articulation **dəbārakā*.

When feminine plural nouns attest a third-person masculine/feminine plural suffix, sometimes the heavy suffix characteristic of the masculine plural nouns is used (i.e., הָה - מָה - מָה), though in a majority of cases (especially in earlier texts) the simple nonheavy suffix typical of singular

Honor of Dennis G. Pardee, ed. H. Hardy, Joseph Lam, and Eric D. Reymond (Chicago: Oriental Institute of the University of Chicago, forthcoming).

^{25.} See the explanation above in ch. 3 §5, "Lengthening of Pretonic */i/ and */a/ Vowels and the Place of Stress."

^{26.} Brønno, Studien, 144-45.

nouns appears (i.e., הַ- and ן -). Some nouns attest both types of suffix: בְּנוֹתֵיהֶם "their daughters" (Judg 3:6) and בְּנֹתֶם (Gen 34:21). Although it is hard to predict which suffix will appear on which noun, the longer, heavy suffix tends to occur in later texts.²⁷ For example, the plural of "father" appears with the heavy suffix (אָבוֹתֵיהֶם) primarily in Ezra, Nehemiah, and Chronicles and with the shorter suffix (אָבוֹתֵיהֶם) throughout the MT.²⁸ On the other hand, certain words occur with primarily one suffix or the other: מָשָׁפְּחוֹתָם) and with the longer heavy suffix only three times (מָשָׁפְּחוֹתָם); contrast this with the distribution of "daughters": בְּנֹתָם occurs just once, but בְּנֹתָם occurs (with and without the *vav mater*) over twenty times.

In some cases the third-person masculine plural suffix appears with a following */ō/ vowel. This expanded form of the pronominal suffix appears on prepositions (e.g., לָמוֹ (to them" Deut 32:35), particles (אַינמוֹ "they are not" Ps 73:5), nouns (e.g., בִּרְיָמוֹ "their fruit" Ps 21:11), and verbs (e.g., שִׁימֵמוֹ "set them!" Ps 83:14).

4.6. Biconsonantal Bases (Tables 6.1, 6.2, 6.3, 6.4, 6.5, 6.6)

Words with just two obvious root consonants are relatively common in BH. The easiest to inflect are those with historical long vowels in their middle: *qāl, *qīl, *qūl. These words often have a mater to mark the long vowel, which never alters or reduces: עוֹבָל, (< *tāb), טוֹבָה, ידָין, "(my) judgment"; עוֹבָה, רוּחוֹת, רוּחוֹת, דוּהיי, דיין, דיין, ידין, ידין, ידין, "(my) judgment", רוּחוֹת, רוּחוֹת, דוּהיי, דיין, ידין, שוֹבּוֹת, טוֹבוֹת, טוֹבִיה, טוֹבִיה, טוֹבוֹת, רוּחוֹת, רוּחוֹת, רוּחוֹת, ידין, ידיע, ידער איזע, ידין, ידיע, ידיע, ידיע, ידין, ידין, ידין, ידין, ידין, ידין, ידין, ידין, ידיע, ידיע, ידיע, ידיע, ידין, ידיע, ידיע, ידיע, ידיע, ידין, ידין, ידין, ידין, ידין, ידין, ידין, ידיע, ידיע, ידיע, ידיע, ידיע, ידין, ידין,

Words from analogous bases with historical short vowels (**qal*, **qil*, **qul*) offer more variations, though they are comparatively fewer in number and follow the tendencies for vowels already outlined in chapter 3. However, note that the */a/ vowel developed in different ways in closed

^{27.} For the appearance of the different suffixes in earlier versus later BH, see most recently Hornkohl, *Ancient Hebrew Periodization*, 135–39.

^{28.} Ibid., 137.

unaccented syllables; it remained */a/ in construct forms (i.e., דָּמֶכֶם "blood of," יָד "hand of"), but seems to have been /i/ or /ɛ/ with suffixes (דְּמְכֶם, דִּמְכֶם).

Feminine nouns of this base, like אָמָה "maid servant," שָׁפָה "lip," and ישָׁנָה "year," are inflected normally in the singular (אָמָתָה "her handmaid"; שְׁפָתִם "their lip"; ישְׁנָתו "his year"). However, in the plural each of these nouns shows some irregularity. The word "maid servant" exhibits a *he* as a true consonant, אַמָהוֹת, while "lip" attests a final *tav* as a root consonant, שְׁנָתוֹם, "in addition to a regular feminine plural form, שָׁנָתוֹ

Most **qil* nouns attest predictable patterns (e.g., *'iśu > *'iṣ > *'ēṣ > (ײַץ). In the cases of ב and שָׁ, however, the */i/ reduces even in an open pretonic syllable: שָׁמ 'my son'' and 'שָׁמ' 'my name."²⁹ In general, the rarity of these types of nouns means that if one encounters an unknown masculine noun with two recognizable root consonants and an */ē/ vowel, most commonly this will be derived from a geminate root, **qill* (on which see below).

Feminine nouns of this base are often derived from I-*vav*/*yod* and I-*nun* roots. Specifically, nouns of the **qilat* base are often from I-*vav*/*yod* roots:

- דָּעָה (from ידע) "knowledge"
- יחם (from הַמָה) "rage"
- ילד from לילד (from 'ילד) "birthing"
- עָדָה (from יעד (from יעד) "assembly"
- יעץ from עַצָּה "advice"
- שׁנָה (from 'שׁנָה) "sleep"³⁰

Most nouns from the **qilt* base, on the other hand, are *qal* infinitives construct from either I-*vav*/*yod* or I-*nun* roots:

נגע (qal inf. const. נגע) "touching"³¹

^{29.} These words have been described as possibly consisting not of a consonant + vowel + consonant sequence (i.e., **bin*, **šim*), but rather as a vowel-less consonant cluster **bn*- and **šm*-. See Testen, "Significance of Aramaic r < *n," 143–46; Fox, *Semitic Noun Patterns*, 73 n. 13.

^{30.} Though contrast עָדָה "witness" from עוד.

^{31.} The /a/ vowels are a reflex of the guttural.

- נגש (qal inf. const. נגש (qal inf. const. גָשָׁת)
- ידע (qal inf. const. ידע) "knowing"
- עַשָׁת (qal inf. const. נטע) "planting"
- הלך (qal inf. const. לֶכֵת) "going"
- ענה or *'int from ענה (*'idt from עד) "time"
- עאת (qal inf. const. יצא) "going out"
- ירד (qal inf. const. ירד) "going down"
- ירש (qal inf. const. ירש (ירש) "inheriting"
- ישׁב (qal inf. const. ישׁב (qal inf. const. ישׁב)
- תת (< *tint; qal inf. const. נתן) "giving"

Note that many of these exhibit a vowel pattern like that of segolate nouns. This extends to forms with suffixes, where the etymological vowel is usually clear (e.g., שָׁבְתִי "my dwelling" Ps 27:4). There is a general tendency for *qal* infinitives construct to attest segolate or segolate-like vowel patterns.³²

There are very few words from the **qul* base. One is found in the plural noun מְתִים (< **mutīm*) "men," where the short */u/ vowel has reduced in an open pretonic syllable, as expected.

A subset of words from II-*vav/yod* roots exhibit an */ā/ or */ē/ (corresponding to the symbols *qamets* or *tsere* in THT) throughout their inflection; that is, there is no reduction of the vowel between the two root consonants.³³ Many of these words are attested as *qal* active participles of II-*vav/yod* roots. For example, the common root קום "to stand" attests a participle ק, the underlying vowel of which does not reduce though it appears in an open, nontonic/nonpretonic syllable, as in קמִיהֶם. In a similar way, the participle of מות "to die," attests a participle, מֵת " whose vowel does not reduce, even in the plural construct מֵתִי Nouns that seem to reflect a similar development include the plural of "city" (e.g., 'עֶרִים "cities of") and the nouns עָרַי (cloud" (עָרֵי) as well as "witness" (מֵרָי).³⁴

Students should remember that words exhibiting the vowel pattern * \bar{e} - \bar{a} (corresponding to the symbols *tsere-qamets*^{he} in THT), like דָּשָה, are often from I-*vav*/*yod* roots, while words with the pattern *a-a* or ε - ε (in

^{32.} See below on nouns of the *qutul base and on segolate nouns.

^{33.} See the comments in ch. 3 §9, "Canaanite Shift and Historical */ā/."

^{34.} On the plural of "city," see Huehnergard, "Biblical Hebrew Nominal Patterns," 32 n. 22 with literature.

THT) that end in a *tav* (e.g., ישׁת) are often *qal* infinitives construct from I-*vav*/*yod* or I-*nun* roots. Also, words (including participles) from II-*vav*/*yod* roots will usually exhibit an */ā/ or */ē/ (corresponding to the symbols *qamets* or *tsere* in THT) that does not alter or reduce in the word's inflection.

4.7. Nouns of the *Qatul and *Qatāl Bases (Tables 6.15, 6.16, 6.17, 6.19)

Nouns of these bases exhibit the same forms, such that it is hard to know at first blush to which base a word belongs. In general, words of the *qatul (fem. *qatulat) base are adjectives (e.g., גְּבֹהַה/גָּבֹהַ "high," גָּדוֹלָ "great," יְחוֹקָה/רָחוֹק (clean, קָדוֹש holy, יְחוֹקָה/רָחוֹק (rar, יָהוֹרָה), י mear), יָקרוֹב (near), while words of the *qatāl base (excluding words with an Aramaic or Aramaic-like form [on which see below]) are usually *qal* infinitives absolute (e.g., שמור "guard," בנוה "build").35 In other cases what appears to be a word from the **qatul* base appears in the plural with a doubled third root consonant and the /u/ vowel preserved: עַמִקִים/עַמֹק "deep." These words are categorized here as from a similar base: *qatull (see §11 below, "Nouns with Three Root Consonants, One of Which Is Geminated"). That words from the *qatul base never exhibit vowel reduction of the historical short */u/ vowel is unexpected based on the relatively regular reduction of pretonic short */u/ in other bases. Still, note the lowering of */u/ to */o/ implied in construct forms like גדל- "great of (loving-kindness)" Ps 145:8; and the ketiv of יָטָהור־ "pure of (heart)" Prov 22:11.

4.8. Nouns of the *Qutul, *Qitāl, and *Qutāl Bases (Tables 6.17, 6.21)

Nouns of these bases are inflected in an identical manner such that we may discuss them together. In order to determine the base of a given word, one must rely on comparative information or consult a dictionary. As examples, note the following: בְּכוֹר "firstborn" and הַלוֹם "dream" are of the *qutul base, as are most qal infinitives construct from strong roots (e.g., יְּבוֹע "guarding" and שָׁלוֹם "sending"). The nouns שָׁלוֹם "arm" and הַרוֹש "god" are of the *qitāl base and שֵׁלוֹם "plaza"

^{35.} The word גָּבֹה is not written with a *vav mater*, while the other words commonly are. All the same, the other words are also sometimes written defectively (without the *vav mater*). Such disparity does not reflect distinct etymological bases.

are of the *qutāl base.³⁶ Although identifying the precise historical base of words like these is difficult for the novice, inflecting these nouns is easy given the consistent vowel sequence *a-ō (corresponding to the symbols shewa-holem in THT). This sequence of vowels is found throughout the inflection of nonverbal nouns: the absolute (e.g., בְּכוֹר, construct singular (e.g., בְּכוֹר, construct plural (בְּכוֹרִי/בְּכֹרִית), and suffixed forms (sg. בְּכוֹרִי, pl. בְּכוֹרִי, pl. בְּכוֹרִי, pl. בְּכוֹרִי, pl. בְּכוֹרִי, pl. מָבוֹרִי, which usually exhibit the vowels one associates with *qutl segolate nouns. Note, for example, *šomrō > 10 "this guarding" (1 Sam 19:11) and *šolhī > יָשָׁלְחִי (Num 32:8) and compare these to the *qutl noun + suffix *qodšī > my sanctuary" (Lev 20:3).

Nevertheless, the *qal* infinitive construct with suffix reflects the **qutul* base in other ways. First, note that in forms like שָׁמְרוֹ "his guarding," the historical first */u/ vowel is preserved, but the second is not. This may reflect the tendency for pretonic */u/ to dissimilate and reduce (i.e., **šumurahu* > *šumrō > *šomrō [> שָׁמְרוֹ]). In addition, with the second-person masculine singular and plural suffix, *qutul base infinitives in context sometimes (especially after the *lamed* preposition but also without a preposition) attest a /u/-class vowel after the second root consonant (e.g., *lašumuraka > *lišmorkā > לְשָׁמָרָדָ "to guard you" Prov 6:24), while *qutl base nouns in context do not (e.g., *qudšaka > *qodšakā > *qodšakā > *qodšakā > "your holy" (your holy place" Isa 63:15). Furthermore, with other suffixes, *qutul base infinitives that have a *begadkepat* letter as a third root consonant regularly attest the spirantized allophone, implying the presence of a vowel after the second root consonant in an earlier form of the word (e.g., **puqudiyya* > **poqdī* > "my visiting" Jer 27:22; *nuqubahu > *noqbō > נָקָבוֹ "his blaspheming" Lev 24:16), while *qutl base nouns do not (e.g., *huškiyya > *hoškī > "my darkness" 2 Sam 22:29; *ruhbahu > rohbō > רחבו "its breadth" Exod 25:23).

As for feminine nouns of these bases, it is again difficult to determine their original base. Those of the **qutult* base (some of which might actually be of the **qutālt* base) include בְּתֹעֶת "tunic," נְחֹשֶׁת "copper," קָטֶׁרֶת "smoke."³⁷ The ending of these nouns resembles a **qutl* noun. Note, in particular, the presence of an epenthetic vowel (i.e., *segol* in THT) between

^{36.} Huehnergard, "Biblical Hebrew Nominal Patterns," 45, 48-49.

^{37.} Ibid., 45.

the last two consonants. The construct form is the same as the absolute (e.g., קְטָׁרֶת can mean "smoke" or "smoke of"). The form with suffixes attests a *qamets* (or *qibbuts*) in place of the *holem* (e.g., **naḥoštī* > גְּוְחָשָׁתִּי, גְוְחָשָׁתִי, גְחָשָׁתִי, גְחָשָׁתִי, וּחָשָׁתִי, גָרָחָשָׁתִי, וּהַוּהוּ nouns of the **qitālat* base, on the other hand, are inflected in a regular manner (e.g., <u>*</u>atterna "labor").³⁸

In this group of bases (*qutul, *qitāl, and *qutāl) the initial vowel is short and the second is long, either from its origin (*/ā/ > */ō/) or through later developments (*/u/ > */ō/). The pretonic /u/ vowel reduces, as expected. As noted above, there is a tendency for two high vowels in a word's stem to dissimilate, that is, to change such that the first high vowel becomes dissimilar to the second, in this case becoming *shewa*.³⁹ This tendency is present after the Canaanite shift has turned */ā/ to */ō/, since /ā/ is not a high vowel and, thus, would not trigger such dissimilation.

Students should remember that the vowel underlying the *holem* in the second syllable of most of these nouns (e.g., גָּדוֹל , הַלֹם , גָּדוֹל) does not shift or reduce in the inflection (the primary exception being in the *qal* inf. const.).

4.9. Nouns of the **Qātil* Base (Table 6.18)

Nouns of this base are primarily associated with *qal* active participles (e.g., לֹתָב "one who writes"; שׁמֵר "one who guards"). Nevertheless, in some cases, the nouns of this base are listed as individual words in dictionaries (e.g., בֹּהֵ "enemy"; בֹּהֵל "priest"; שׁׁפֵּט "judge"); still, they inflect just like participles.

Often the feminine singular form of the participle derives from the base * $q\bar{a}tilt$, which results in an ending that exhibits a vowel pattern like that of a segolate noun: * $y\bar{a}lidt > *y\bar{o}lidt > *y\bar{o}ledt > *j\bar{c}\psi$ "one who bears." In rare cases, the feminine singular participle exhibits a form derived from * $q\bar{a}tilat$ (e.g., בֹּעֵרָה, "one burning" Isa 30:33).

Usually, the */i/ of the stem (*qātil) reduces to shewa when it is in the pretonic syllable because the initial vowel cannot reduce: *hālikīma > *hōlikīm > *hōlakīm (> הֹלְכִים (הֹלְכִים) "those going"; *hālikāt > *hōlikōt > *hōlakōt (> הֹלְכוֹת). One irregularity, however, appears in the contextual form of the masculine singular *qātil noun with second-person masculine singu-

^{38.} Ibid., 48.

^{39.} See ch. 3 §5, "Lengthening of Pretonic */i/ and */a/ Vowels and the Place of Stress." See also Garr, "Pretonic Vowels in Hebrew," 143, 150.

lar suffix. The vowel after the second root consonant is either an /i/, /ɛ/, or /a/ in THT: אָׁרָדָ "your enemy" (Exod 23:4); יָשָׁרְדָ "one forming you" (Isa 43:1); דָּרַאָּרָ "one creating you" (Isa 43:1).⁴⁰ This reflects the elision of a vowel between the stem and the suffix (i.e., *'ōyibakā > *'ōyibkā > גָּיִבָּרָ אָיִבְרָאָרָ אָיָבָרָ The pausal form, on the other hand, does reflect a vowel between the stem and base (i.e., *'ōyibakā > 'ōyəbakā > 'oyəbɛkå = גָּיִבָּרָ אָיִבָּרָדָ sometimes does not reduce, helping to distinguish the substantival nature of the word (e.g., "ight and item "madness", גָּיָלָרָ "madness").⁴¹

In the feminine singular form with suffix, the short */i/ shifts to */ ϵ / then /a/ in THT: * $y\bar{a}lidtaha > *y\bar{o}ledtaha$ (> *yoladtah = יֹלַדְתָּהָ) "one who bore her"; * $y\bar{a}lidtVkum > *y\bar{o}ledtVkem > *y\bar{o}ladtakem$ (> ' $\dot{c}t\bar{c}\bar{c}\bar{c}\bar{c}$) "one who bore you." Nevertheless, the * $q\bar{a}tilat$ form of the feminine singular participle often expresses the historical */i/ vowel clearly: יֹלֵבָה.

4.10. Other Nouns with Long Vowels (without Gemination) (Tables 6.20, 6.21)

Many nouns with three root consonants derive from a base that includes a long vowel. Since historical long vowels never reduce, the inflection of these nouns requires little comment. Note, for example, the regular absolute forms of the *qal* passive participle which derive from the **qatūl(at)* base: אווי הָתוּבָה, בָּתוּבָה, בָּתוּבִה, בָּתוּבָה, בָּתוּבָה, בָּתוּבָה, בָּתוּבָה, קַתוּבַה 'that which is written.'' In the case of III-*vav/yod* roots, the *yod* appears as a third root consonant and the vowel sequence is preserved (e.g., בְּנוּיָה, בְּנוּיָה, בְּנוּיָה, "בָּנוּיָה, "מַמוּלָה").⁴² In addition, there are many nouns of this pattern: בְּתוּלָה ''remembrance,'' שָׁוּשָׁה'' (salvation, שָׁבוּשָה'' week,'' (week,'').

Words of the *qatīl(at) base are often classified as adjectives: דְּסִיד "pious"; יָמִין "south, right"; יָמִיל "complete"; יָמִין "pleasant"; יָמִין "little." However, a fair number are also commonly used as substantives to describe a type of person: מְשִׁיח "prisoner"; דָחִיר "chosen one"; מְשִׁיח "anointed one"; מָשָׁיח "prince"; יָשִׁיא "prince"; יָמִים "high official, eunuch"; סָרִיס "survivor"; שָׁרִיד "survivor." Other words from this base are associated with agriculture: אָסִיר

^{40.} Note also שֹׁלֵחֵד "one sending you" (1 Sam 21:3).

^{41.} See Garr, "Pretonic Vowels in Hebrew," 145.

^{42.} In relation to דְּנוּיָם, it was scribal convention not to include a vav or yod mater when such a mater would have come directly after a true vav or yod consonant.

"trimming of vines"; דָּרִישׁ "ploughing"; קָּצִיר "harvest."⁴³ Roots whose third root consonant is *vav/yod* attest the same vowel sequence, though without a final root consonant: יָבָק "innocent"; יָשָׁר "poor." The underlying historical vowel sequence (**a-ī*) is also reflected in the feminine singular, the masculine and feminine plural, and with pronominal suffixes, in each case where the historical III-*yod* is preserved through gemination: יָּבָרָי, וְעַרִיָּיַן, and so on.

Nouns of the *qutūl base often exhibit the reduction of the first */u/, as expected for a pretonic /u/ in an open syllable: גְּדוּד "territory"; גְדוּד "band"; גְדוּד "flies"; יְבוּל "produce." Note the plural nouns that indicate a period in a person's life: יְבוּל "youth (i.e., time of being young)"; בְּתוּלִים "virginity"; יְקוּגִים "old age"; גְעוּרִים "youth (i.e., time of being young)"; עַלוּמִים "youth (i.e., time of being young)."

Nouns that look to be of the **qātal* base may ultimately derive from other roots (e.g., בּוֹבְב "star" from **kwb*; עוֹלָם "eternity" perhaps from **`wl*; "child" from **`wl*) or from other languages (e.g., דוֹתָם "seal" is Egyptian in origin).⁴⁴

Nouns of the **qatāl* base often refer to occupations and may be connected to, in some remote way, a similar nominal form in Aramaic. Note, for example, אָמוֹן "craftsman"; בָּגוֹדָה "traitor"; אָמוֹן "oppressor"; אָמוֹן "metalsmith."⁴⁵

4.11. Nouns with Three Root Consonants, One of Which Is Geminated (Table 6.22)

Nouns from strong roots sometimes attest gemination of the second or third consonant. As for those that exhibit gemination of the second root consonant, their inflection is generally easy to predict since the gemination preserves the short vowel of the first syllable throughout the inflection. The vowel of the second syllable is lengthened or reduced, depending on the normal rules for vowel lengthening/reduction outlined above.

Of these words, nouns of the *qattal, *qattil, and *qattīl bases are perhaps the most common. Words of the *qattal base often indicate a

^{43.} See HGhS, 471pα-ra. Still other words do not fit into any of these categories: הָלִיבָה "going"; שָׁעִיר "billy-goat."

^{44.} See Huehnergard, "Biblical Hebrew Nominal Patterns," 49–50; also, Fox, Semitic Noun Patterns, 289–90.

^{45.} On words from this base, see Hornkohl, Ancient Hebrew Periodization, 148-52.

person who does the activity associated with the root (e.g., נָּגָר "thief"; יָּזָ "judge"; גַּגָר "sinner"; שָׁגָל "criminal"). Two frequent nouns of this base have a medial *resh* that results in compensatory lengthening of the initial */a/: שָׁרָשׁ "craftsperson" and שָּׁרָשׁ "horse rider."⁴⁶ Feminine nouns of the **qattalt* and **qattalat* base often have negative connotations: הַעָּלָד "terror"; בָּלֶר "drought"; "שָּׁאָ הוּשָׁאָר הַשָּׁאָ היין "scabs"; הַשָּׁאָ הוּשַׁאָר הַשָּׁאָ "terror"; בָּלֶה "terror"; הַשָּׁאָר הַשָּׁאָר הַשָּׁאָר הַשָּׁאָר הַשָּׁאָר היין "scabs"; יָבֶּלֶת "flame," Note also the medial guttural nouns 'ge הָרָים "flame," which exhibit the shift of */a/ to /ɛ/ in THT as in the word הַהָּרִים (see above).

The relatively common noun שָׁבָּת "sabbath" seems to be a masculine noun from this base; however, the final feminine /t/ morpheme has dropped off in the absolute (*šabbattu > *šabbāt). With suffixes it is preserved: אָבָתוֹ "his sabbath." The word שָׁבָּתוֹ "sin" exhibits compensatory lengthening in most singular forms (e.g., שָׁשָׁת, "cheir sin"), except in the construct and in related forms (e.g., שָׁשָׁת, "sin of" and שָׁבָּתוֹ "your sin"). In the plural, there is no compensatory lengthening because a vowel follows the *aleph*: *haṭṭa'ātu > *haṭṭa'ōt > *haṭṭā'ōt (> mׁ̪שִׁרָּתַ). But, another phonetic transformation is evidenced in the construct plural and in forms with suffixes: what should be a vocal *shewa* (derived from a historical short */a/ vowel) is elided, reflecting (all things being equal) the development: *haṭṭa'ātu > *haṭṭa'ōt > haṭṭōt (> muṣtīn). Note the peculiar spelling. Although both the plural absolute and plural construct are spelled in THT with a vav mater, the holem appears after the *tet* in the plural construct.

In some words, the historical */a/ presupposed by the THT *qamets* does not reduce, as in בַּקָּרָת (Ezek 34:12); בָּקָשָׁתִי "my request" (Esth 5:7 and elsewhere); בָּקָשָׁתוֹ "his request" (Ezra 7:6); הָרָשִׁי "engravers of" (2 Sam 5:11 and elsewhere); מַלְחֵיהֶם "their sailors" (Ezek 27:9); גָּחְמָתִי (Ps 119:50; Job 6:10). These nouns, thus, look like Aramaic words, which attest a long vowel /ā/ that derives from PS (e.g., Aramaic

^{46.} Although the word מָלָח "sailor" is often construed as a member of this base, derived from the Hebrew word for salt (מָלָח) like English "saltee" from "salt," it is rather a loanword, from Aramaic *mallāh* (or *mallāh*), which language also attests a verb *mlh/mlh* "to steer, guide." (The Aramaic word derives from Akkadian *malāhu* which is in turn derived from Sumerian). See, e.g., Aaron D. Rubin, "Sumerian Loanwords," *EHLL* 3:665–66.

^{47.} There are exceptions, of course, like חָרָבָה "dry ground," טַבַּעַת "seal ring," נָבָשָה/יָבָּשָׁה/

judges" Ezra 7:25 and קַטָּלְה [the D-stem infinitive] "to execute" Dan 2:14).48

Nonverbal words of the *qattil base have undergone a shift such that the initial */a/ has shifted to */i/: 'awwir > 'iwwēr > 'iwwēr > 'iwwēr אַלָּם "blind." As in this example, many words of this base describe aspects of a person's physique: chumb"; בַּהָר "bald"; גָּבָן "hunch-backed"; אָלָם "deaf"; בַּהָר "diam"; "able to see"; הַרָרָש "bald." In other cases, the word is a simple adjective: בָּאָר "arrogant" and "בָּקַש "twisted."⁴⁹ Often these words seem to have negative connotations. The same base supplies the forms of the *piel qåṭal*, דְבֵר "he spoke" (pausal), and infinitive construct, "בָּקָר "speak." Due to an affinity between the infinitive construct and the *yiqtol* (e.g., ''ָרָבָר,'), the *piel* infinitive construct has maintained the original first stem vowel.⁵⁰

Words of the **qattīl* base are often adjectives with positive connotations: אַבִּיר "strong"; אַבִיר "mighty"; אַבִּיר "strong"; כַּבִּיר "righteous." As with **qatīl* base words, some of these are used as substantives referring to persons: אַפִּיר "prisoner," שַׁלִיט "ruler."

Among the other bases with geminated middle consonants, mention should be made of the **quttul* base, which shifted to **qittul* and then to **qittol*, as in גְבוֹר "warrior," גְבוֹר "bird," and "שָׁבוֹר "drunk."⁵¹ Feminine nouns include שָׁבֹּלֶת "ear of grain."⁵² A similar shift took place with **quttul* nouns, which most commonly occur in the masculine plural: בְּבּוּרִים "first fruits"; בְּבּוּרִים "defamation"; בְּבָּרִים "atonement"; בְּבָּוֹרִים

Bases of nouns whose third consonant geminates are often associated with other, previously described bases. In part, this is due to the regular loss of gemination at the end of a singular absolute word. Thus, **qatall* nouns became **qatal* in this environment and then went through the same transformations that led from **dabar* to \neg _{$\overline{2}$}. Subsequently, these two cat-

^{48.} Stadel, "Aramaic Influences on Biblical Hebrew," 1:162–65. As noted above (ch. 3 §9, "Canaanite Shift and Historical $*/\bar{a}/"$), Huehnergard ("Biblical Hebrew Nominal Patterns," 51) suggests, based on Akkadian evidence, that such Hebrew words may ultimately derive from *qattal and *qattalat.

^{49.} As with feminine plural words of the *qātil base, where the pretonic */i/ lowers and lengthens in substantives and does not reduce, so also with some masc. pl. words of the *qattil base that function as substantives. Thus, one finds שָׁלָשִׁים "third generations" and "רָבָּעִים" fourth generations" (see Garr, "Pretonic Vowels in Hebrew," 145).

^{50.} See Huehnergard, "Biblical Hebrew Nominal Patterns," 52.

^{51.} See ibid., 53-54.

^{52.} See ibid., 54.

egories of nouns (i.e., **qatal* and **qatall*) became indistinguishable in the absolute. Words that exhibit the **qatall* base in their paradigm include: אָמַלִים (גַּמַלִים, גָּמַלִים), small" (גָּמַלִים, גָּמַלִים, etc.); גָּמַלים), 53

Similar mergers and confusion pertain to **qatull*, which became **qatul* and then **qātōl*, making the absolute singular of such words look identical to historical **qatul* nouns. Here evidence from other Semitic languages suggests that many color terms are etymologically **qatull* (e.g., אָדמים, אָדמים, אָדָמִים, אָדָמִים, אָדָמָים; and שָׁקֹרָה]; as well as שָׁקֹרָה]; as well as שָׁקֹרָה];⁵⁴

As for other bases, the base **qutull* exhibits the same dissimilation of high vowels found in other nouns discussed above. Thus, the initial */u/ vowel is reduced to *shewa*: לְאָׁמִים, As for the feminine base, **qutullat* is "found almost exclusively as an abstract action noun" (e.g., לְאָלָה, "redemption"; הְאָלָה, "dedication").⁵⁵

4.12. Aleph-, Yod-, Mem-, and Tav-Preformative Nouns

Biblical Hebrew attests numerous words formed, in part, by the supplementation of a consonant to the beginning of the root. One of the rarest of these prefixal consonants is the *aleph*: אָרָזָב "deceitful," אַרְמָנָה "widow," widow," אַרְמָנָה "grape bunch." In some cases, *aleph*-preformative words are byforms of words that begin with a consonant + *shewa* אָרָרוֹעַ/זְרוֹעַ anklet"/ אָנָקָר "arm," אָצָעָדָה "anklet"/ אָצָעָדָה "bracelet." Also rare are those nouns with a preformative *yod*: יָרִיב "oil," יָרִיב "adversary," and "cestence."

Mem-preformative nouns are the most frequent of this set and most fall into one of four categories, based on their historical vowels: **maqtal*, **maqtil*, **maqtul*, and **maqtāl*. For most strong roots, the historical short */a/ following the preformative *mem* has shifted to /i/ or /ɛ/ at a relatively late date (in the Common Era). Where the first root consonant is a guttural, however, the */a/ has often been preserved (מַעָשָׁה) "deed"); the same sometimes happens when the first root consonant is a *lamed*, *mem*, or *nun* (e.g., מָמָלְכָה "kingdom," מַמָלָבָה "gift"). In addition, nouns of II-*vav/yod* roots preserve the initial /a/ vowel (e.g., מָקוֹם "place"). There is also some incon-

^{53.} See ibid., 56.

^{54.} Fox, Semitic Noun Patterns, 285.

^{55.} Ibid.

sistency evidenced in the MT itself (e.g., מְכְמֹרֶת "net" Isa 19:8 and מַכְמֹרָיו "his nets" Ps 141:10).⁵⁶

Words of the **maqtal* base are the most frequent. With the strong roots or with gutturals, it is often clear what the relevant root consonants are and there is rarely confusion about whether or not the initial *mem* might be a root consonant. Note, for example, מְבְעָל, "food," מְבְעָר, "choice element," מְבְעָר, "fortified city," מְבְטָח "trust," מְבְעָר, "tower," מְבְעָר, "desert," מְבָעָר, "guard," מְבָעָר, "guard," מַבְעָר, "judgment." In all these cases, the inflection of the nouns is entirely predictable. The vowel of the initial syllable is in a closed syllable and so it never alters or changes from the lexical (or dictionary) form. The historical */a/ in the second syllable is entirely like the second short */a/ vowel in **dabar*. Note, for example, מִשְׁפָּטִים, as well as מִשְׁפָּטִים.

Feminine nouns of this base (i.e., **maqtalt*, **maqtalat*) are also easily recognizable with strong roots or roots with gutturals. Note that **maqtalt* nouns (e.g., מַאֲכֶׁלֶת "food," מָאֲכֶׁרָת "guard, obligation") seem to be fewer than **maqtalat* nouns (מַקָּלֶכָה "war," מַאֲכָלָה "war," מַאָלֶכָה "kingdom," מַאָלֶכָה "dominion"). Nevertheless, the two forms of feminine nouns are closely associated with each other since nouns of the **maqtalat* base appear to be of the **maqtalt* base in the construct and with suffixes (e.g., מַקְשָׁלָה [+ 3ms]; מַקְלֶכָה [const.] / מַקְלָכָה [+ 3fs]; מַקְשָׁלָה [const.] / מַקְלֵכָת [+ 3ms]). There is just one absolute plural form for these types of feminine noun: מַקַלָּכָתוֹת .

Words from I-*nun* roots are slightly more difficult to recognize as *mem*-preformative nouns since the same sequence of vowels may also reflect a **qattal* base. All the same, *mem*-preformative nouns from I-*nun* roots are comparatively common (e.g., מָקָה "wound" from נכה hiphil "to strike"; מָקָה "burden" from נחול נווֹל מָשָׂא "to lift"; מָקָה "gift" from מָשָּׁא "to give.").

Words from I-vav/yod roots exhibit a vav or yod mater after the mem prefix, reflecting the contraction of a diphthong. Thus, what was *mawtabu "dwelling place" has shifted to *mōšab, then *mōšāb and finally מוֹשָׁב גמוֹשָׁב D. Similarly, *mayšarīma "uprightness" shifted to *mēšarīm before then becoming *mēšārīm and then מֵישָׁרִים .

^{56.} See Sperber, Historical Grammar, 451.

Words from II-*vav/yod* roots have shifted to **maqāl* and then **māqāl*. For example, note מְרוֹם "entrance," מְרוֹם "place," מְקוֹר "source," מֶרוֹם "height." The historical */ā/ that shifted to */ō/ does not reduce or shift in the inflection of these nouns.

III-vav/yod nouns from the *maqtal/*maqtal(a)t base offer little confusion in their absolute singular forms: מַעֲלֶה "building," מַעֲלֶה "ascent," As explained above, the word-final vowel is the result of a triphthong contraction. Similar contractions have resulted in the loss of the final vowel of the original stem in the plural (and with suffixes) such that these nouns usually exhibit no trace of the third root consonant (e.g., מַעֲשֶׁה, מַעֲלָה, מַעֲשָׁה, מַעֲשָׁה, מַעֲשָׁה, מַעֵּלָה, מַעָשָׁים).

Words from other *mem*-preformative bases attest similar patterns to those outlined above for **maqtal*. Note **maqtil* and **maqtil(a)t* (مَدْوَ مَدْوَ مَا يَ اللَّهُ اللَّهُ مَا يَ اللَّهُ الللَّهُ اللَّهُ اللَّةُ الللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّ (from مَعْقَطُرَّارِ اللَّهُ اللَّةُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّ الْعُلْقُلْقُلْقُلْقُلْعُلْقُلْعُلْقُلْعُلْمُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّ (from مُعْقُطُرَابُ اللَّهُ اللَّ المَا اللَّا اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ عَلَيْ اللَّالَةُ عَلَيْ اللَّالَةُ اللَّالِي اللَّهُ اللَّ

Words associated with the **maqtul* base are relatively rare. It is noteworthy, however that several feminine nouns of this base (which derive from II-*vav/yod* roots) are byforms of **maqtal/*maqāl* nouns: מְנוֹחָ versus מְצוֹדָה; "resting place"; מְנוֹסָ versus מְנוֹסָ "mountain stronghold"; מְצוֹקָה versus מְצוֹקָה; "distress"; מְנוֹחַ distress." Words of the **maqtāl* base, on the other hand, are sometimes byforms of strong root **maqtal* nouns: מְבָחוֹר מָבָחוֹר versus מִבְחוֹר מָבָחוֹר weight." In other cases, no byform exists: מְלָשׁוֹל "song," מְלָשׁוֹל (stumbling."

Tav-preformative nouns are less frequent than the *mem*-preformatives. They also attest words from I-vav (תּוֹרָה "law") and I-yod (תַּיָמָן "south") roots. The same types of bases found with *mem*-preformatives are also found for *tav*-preformatives (e.g., **taqtalat* תּפָאָרָה "glory"; **taqtilat* תּוֹכֵחָה "rebuke" [also **taqtilt* תּוֹכֵחָת "rebuke"]; **taqtulat* from II-vav/yod roots תִּחַלָּה "return"). Note also the nouns from geminate roots: "beginning," תְּפָלָה "prayer." Moreover, the **taqtūl* base (e.g., אַרְמָלָה "pleasure," קוּנוּנִים "pleading," תַּנְחוּמִים "comforts") seems more common than the analogous **maqtūl* base (e.g., מַלְבוּשׁ "robe"). As can be seen from this brief list, these *tav*-preformative words are often feminine in gender and often express an act or abstraction. Like some *mem*-preformative words (מַצֶּבָה and מַצֶּבָה standing stone"), some *tav*-preformative nouns exhibit byforms; note especially הַפָּאֶרָה and הַפָּאָרָה "beauty." Inflection of these nouns is entirely predictable.

Students should remember especially that feminine *mem*-preformative nouns of the **maqtalat* pattern will often exhibit a **maqtalt* pattern in the construct and before suffixes (מַחֲשָׁבָת. vs. מַחְשָׁבָת [const.] and מַחֲשָׁבָת). In addition, notice that a *mater vav* or *yod* after a word-initial *mem* or *tav* often signals a I-*vav*/*yod* root (e.g., תּוֹרֶה/מוֹשָׁב, and הַיָּמָן/מֵישָׁרִים).

4.13. Nouns with Afformatives

Hebrew nouns attest a wide variety of afformative elements that attach to the stem of a noun. The most common is $*-\bar{o}n$ (< $*-\bar{a}n$), appearing as part of the base *qatalān, *qattalān and as part of a variety of other bases. The nouns from the **qattalān* base almost always appear only in the absolute singular; the other forms of the noun are based on *qatalan (e.g., icrit, "remembrance" vs. זָכָרוֹנָן [const.] and זָכָרוֹנָד as well as זָכָרוֹנות [abs. pl.] and וברעיבם). In this and most other words of this base, the initial historical */a/ has shifted to /i/ (אָןרוֹן "vision," נְקֵיוֹן "innocence," עָרוֹן "blindness," "destruction"), though there are exceptions (שָׁבָתוֹן "rest"). Words from II-vav/yod roots include ששוון "joy" and זדון "arrogance." In the inflection of these words, the historical */a/ of the first syllable reduces to shewa (e.g., ששון [const.] and ודונך). In some cases listed above, the IIIyod is preserved (e.g., (תַוֹיוֹן); in other cases, the III-yod has elided entirely and the second root consonant does not geminate (e.g., גאה from גאון from גאה "vision"; [חזה from] המה (turmoil, noise, crowd) המה (from המה "vision"; רצון (from רצה). The inflection of these III-vav/yod words is otherwise entirely regular. As can be seen from this list, most of these words are abstractions or intangible items.

Many adjectives are formed with the afformative *-ōn (<*-ān). These include יְקַרְמוֹן "poor," אֲהֲרוֹן "last," הַיּצוֹן "outside," עֶלְיוֹן "most high," הַקָּרוֹן "eastern," יְהָרוֹן "first," הִיכוֹן "middle." A variety of nouns also bear this suffix, including יִהְרוֹן "pupil of eye (lit., little person)," יָהָרוֹן The inflection of these nouns is entirely regular. The vowel of the initial closed syllable remains stable in BH (e.g., אַחֲרֹנִים and שַׁחֲרֹנִים "last"). A small minority of words contain an *-ān ending (> THT -ån) in the suffix instead of *-ōn, as though the word derives from Aramaic: בְּנְיָן "build-ing"; בְּנְיָן "property"; בְּרָבָן (formanic, these nouns exhibit shortening of the vowel of the afformative in the construct and with heavy suffixes (e.g., כָּרָבַן כָּכָם, [const.], בְּנָיָן).

Other frequently encountered afformatives include the *-*iyy* > *-*ī* gentilic ending (e.g., אָרָמִי "Aramaean," בְּנַעָנִי "Canaanite," עָבְרִי "Hebrew"). The ending is also a part of various other adjectives (e.g., אָרָמִי "cruel," אָרָזָרי, "free," אָרָזָרי "foreign," אָרָזִי "third"), some of which are used as substantives (e.g., יָבְרִי "foot soldier"). The inflection of these kinds of words usually results in the doubling of the *yod*: עָבְרִיִים, and עָבְרִיים, אָבָרִי Often in the masculine plural, the *-*iyyī*- sequence of vowels and *yod* contracted to simply *-*ī*-, as in עִבְרִים .Sometimes the feminine form of such a noun ends with *-*īt*: מִאָבְרִים "Moabite" (vs. מוֹאָבִיָה). In some cases, the *-*ī* afformative was attached to the *-*ōn* afformative, like "eastern," אָרָמוֹנִי "red."

Two endings are associated with abstract nouns, *-*it* (e.g., אַחָרָת, "end," הַתִּית "terror," הַאַחָרִית "beginning," הַאַּרִית "remnant") and *-*u*t (e.g., דְמוּת, "likeness," הַמוּת "unfaithfulness," בָּאשִׁרִית "childhood, youth," מַלְכוּת "likeness," בְּמוּת "kingship"). These words are regular in their inflection; usually the initial closed syllable means that there is little change in the stem with a suffix (e.g., אַחַרִיתָה, "its end"). In some cases, an */ā/ (> THT /å/) appears in the initial syllable and is present throughout the inflection (e.g., מַלוּתָנוּ "exile," חַזוּת, "our exile"; חַזוּת, "vision," חַזוּת, "your vision").

The last afformative element we address marks adverbs and seems to be derived from the old accusative ending */a/ followed by a word final *mem.*⁵⁸ This developed into Hebrew *-ām (> -åm) and is found on words like אָמְנָם/אָמְנָם (> -åm) and is found on words like פָּתָאם "truly," הָנָם "undeservedly," יוֹמָם "suddenly," יוֹמָם

^{57.} The gemination of *yod* is also found in *qatīl* base nouns/adjectives from III*vav/yod* roots: עַנָיָה. In these cases, the gemination helps preserve the preceding /i/ vowel. See Bergsträsser, *Hebräische Grammatik*, 1:102.

^{58.} See *IBHS*, 93 n. 29. This *mem* is often called enclitic. It has no discernible semantic value in other languages, like Ugaritic.

4.14. I-Aleph, I-Nun, and I-Vav/Yod Nouns

Nouns from I-*aleph* roots sometimes exhibit full vowels where we would otherwise expect a *shewa* or *khatef* vowel. For example, as explained above, the initial */i/ of the **qitāl* base usually is realized in BH as a *shewa* (e.g., the initial */i/ of the **qitāl* base usually is realized in BH as a *shewa* (e.g., "roit" "arm"). In the case of "still", "however, the */i/ has become */ē/. Similarly, the short */u/ shifts to a reduced vowel in most **qutūl* nouns (e.g., "territory"), but with a I-*aleph*, the */u/ shifts to */i/ and then to */ē/ (e.g., "source").⁵⁹

Nouns from roots with a *nun* or *vav/yod* as initial root consonant exhibit peculiar forms, which can sometimes make identifying their root difficult. This, in turn, creates difficulty in making an educated guess about the meaning of an unfamiliar word. In many instances, words from I-*nun* roots have lost the initial root consonant, such that they look like they are not from a I-*nun* root. This is sometimes the case with words of the **qilt* base (גנש "approaching" *qal* inf. const. (נגש), discussed above. Where the base has a preformative *mem*, the *nun* will often assimilate: מָכָה from גֹרָה) *hiphil* "to strike" and כָּהָדָן "gift" from נכה."

Words from I-vav/yod roots appear from the *qilat (יבָדָה "assembly") and *qilt bases (יבָדָה "going down" qal inf. const. ירד), as discussed above, where the first root consonant has totally disappeared. Where a preformative mem or tav attaches to the beginning of such a root, one can recognize the historical root consonant. A I-vav root will often attest an */ō/ vowel with vav mater (e.g., מוֹשָׁב "dwelling place" from ישׁב "to dwell"; ישׁב "thanksgiving" from מוֹשָׁב hiphil "to give thanks") and a I-yod root will attest */ē/ with a yod mater (יבָי "integrity" from מֵישָׁר "to be straight"; "south" from ימון hiphil "to go to the right").

4.15. II-Vav/Yod Nouns

Nouns of II-*vav/yod* roots often appear with a historical long vowel between their first and last consonants, as discussed above (e.g., ינֶת "good" from מוב "understanding" from (בין hough there are rare exceptions (e.g., 'iniquity"). Words from **qal* and **qil* bases attest */ā/ and */ē/ vowels throughout their inflection (e.g., the participles מַת and well

^{59.} See Huehnergard, "Biblical Hebrew Nominal Patterns," 49.

^{60.} On nouns with preformative elements, see above.

as the nouns עָב "cloud" and בר "מחש"). Note, for example, the construct form of the feminine singular participle of אור in the famous expression אבין וָבַת חָלָב וּדְבַשׁ "a land flowing with milk and honey."

4.16. III-Vav/Yod Nouns

With few exceptions, nouns from III-*vav/yod* roots are inflected in a similar way, regardless of base. Generally, masculine formed nouns will end with an /ɛ/, which is marked by a *he mater*. Thus, **qatal* nouns have the vowel sequence * \bar{a} -ɛ (in THT a-ɛ), as in תְוָה "(animal) breast"; תְּנָה "reed(s), stem(s)."⁶¹ Words of other bases often have a similar ending: **qatil* (מֵּטָי "innards" [cf. יְמָטָר]), **qātil* (מֵטָי "arrogant").⁶²

The inflection of these more regular III-*vav/yod* words that end in /ɛ/ is very easy to learn. In essence, the final triphthong resolves such that only the vowel of the final morpheme remains (e.g., **qašiyīm* > **qāšīm* > "*qāšīm* > " קַשָּׁה one who does"; the plural forms קָשָׁה and קָשָׁה the suffixed forms עָשָׁה (stiff) stem(s), " קָבָה "who made it."⁶³ This inflection reflects presumably the regular contractions of earlier triphthongs, as described above. One nuance in relation to the noun + possessive suffixes is the fuller form of the thirdperson masculine singular suffix, as seen on the word for "pasture": נְלָשׁר נְלָשָׁה "his pasture" (abs. נְלָשָׁה). Sometimes the third-person feminine singular has a similarly extended form: מָרָאָָה "its appearance" (Lev 13:20).

The construct singular is usually distinguished from the absolute by the distinction of */ē/ instead of /ɛ/, which in Tiberian Hebrew is realized as the difference between *tsere* and *segol*. In some words that contain an etymological short vowel in an open pretonic syllable (e.g., **qašiyu* > קָּשֶׁה" (hard, stiff"), the construct form will also be marked by the reduction of the initial vowel, as in the adjective קָּשֶׁה מָשָּׁה הַשָּׁהָ in the expression עָם־קְּשֵׁה־עָּרָף (Exod 32:9). In other cases, however, the initial syllable will not contain a vowel that reduces and the only signal that the word is in construct is the */ē/ in place of /ɛ/: עָּשָׁה הַשָּׁמָׁים "the maker of the heavens" (Ps 136:5).

^{61.} Huehnergard, "Biblical Hebrew Nominal Patterns," 44.

^{62.} Ibid., 44-53.

^{63.} Note too the plural forms with suffix: עָשִׁיו and קַנוֹתָם.

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The words and bases whose last stem vowel is long exhibit different endings. In each, the vowel sequence found in nouns of the strong root is also found in the III-vav/yod roots, making the identification of the word usually very easy: *qatūl (אָנוֹן "that which is built" qal passive ptc.); *qatūl "poor"); *qātōl (בָּוֹן" "building" qal inf. abs.). The inflection of these nouns is often similar to the inflection of the same bases with strong roots: בַּנוֹן , עֵנְיָה , אָנִיָּה , עֵנִיָּה , שָׁנִיָּה , שָׁנִיָּה , שָׁנִיָּה , שָׁנִיָּה , שָׁנִיָּה , שָׁנִיָּה אָנוֹן

4.17. Geminate Nouns with One Vowel in the Stem (Tables 6.7, 6.8)

Some geminate nouns attest a vowel between the second and third root consonants (e.g., לָבָב "heart"). Such nouns are entirely predictable in their inflection. Another group of geminate nouns has only a single vowel in their stem. These exhibit certain characteristics that make learning them together useful. Nouns of these bases have either a historical short */a/, */i/, or */u/: *qall, *qill, *qull; *qallat, *qillat, *qullat. We first consider the masculine forms and then the feminine.

The above masculine singular bases (**qall*, **qill*, **qull*) develop in slightly different ways in BH, depending on the vowel. First, note that the historical gemination at the end of the word is lost in the masculine absolute noun. This is due to the relative difficulty of pronouncing geminated consonants without a following vowel. During the second millennium BCE, when there was a case system, it would still be easy to articulate the gemination (e.g., *'ammu* "people"). With the loss of the case system, the final consonant and vowel were eventually both lost.⁶⁵

The vowels shift in different ways. The vowel */a/ usually remains stable, while */i/ and */u/ are lowered in quality. Thus, **ṭappu* "children" and **kappu* "palm" became, respectively, **ṭapp* > **ṭap* (> קַעָּ) and **kapp* >

^{64.} The gemination of *yod* in אָנָיָה, etc. helps preserve the preceding /i/ vowel. See \$13, "Nouns with Afformatives," above. In rare cases, a final III-*vav/yod* is preserved in other bases: **qatal* (אָנָיָה "humble"); **qātilat* (עָּטָיָה "one who wraps," הוֹמִיָה "one who moans/is tumultuous"); **qattal* (אָנָי "weak").

^{65.} A similar thing seems to happen in English too. In contemporary English, the noun "bed" derives from an Old English word that exhibited gemination of the "d": *bedd*. See, e.g., Rob Getz and Stephen Pelle, *The Dictionary of Old English* (Toronto: University of Toronto), s.v. bedd; http://tinyurl.com/SBL0395a. In Old English, the final gemination was preserved due to a case system consisting of final vowels/consonants (e.g., *beddes*). The gemination is lost entirely in contemporary English except in forms of the word where there is a following syllable; contrast "beds" with "bedding."

*kap (< קב). But, *qinnu "nest" and *libbu "heart" became, respectively, *qenn > *qen (< קן) and *lebb > *leb (לָב <); similarly, *kullu "all" and *huqqu "statute" became *koll > *kol (לל <) and *hoqq > *hoq (< לחק).

The construct form of the singular *qall nouns *tap/*kap is identical to the absolute form in almost all circumstances (e.g., כָּרָ "palm of"). But, the construct forms of the other two bases show some alternation. Usually, the construct form of the *qill base is the same as the absolute (e.g., כָּרַ "heart of"). Occasionally, with maqqeph the THT spelling with segol presumes a shift from */i/ to /ɛ/ (e.g., כָּרַ "heart of"); in other cases the historical */i/ shifted to /a/, at least in THT (e.g., כָּרָ "nest of"). The construct form of *qull nouns may also be identical to the absolute (e.g., כֹּר "all of" and כָּר "statute of"), but often with maqqeph, the */u/ is realized in THT as /å/ (e.g., כֹּר "all of").

Vowel lengthening affects the geminate **qall* base, at least in THT, though this is primarily restricted to where the second/third root consonant is a *mem*. Although \mathfrak{Q} is found regularly where it is followed by an attributive adjective or relative clause, the form 'am (= \mathfrak{Q}) is found (even in context) where it is followed by prepositional phrases and conjunctions. In addition, 'am always occurs when accompanied by the definite article.⁶⁶ The /a/ is even more regular in other geminate **qall* nouns that end with a *mem*: \mathfrak{Q} 'sea'' (< **yammu*) and \mathfrak{Q} 'complete'' (< **tammu*).⁶⁷

In contrast to the singular, the plural forms of the masculine geminate nouns are very straight forward. With the suffixed morpheme *-*īma*, the original vowel and gemination were retained so that the historical form and the realization in BH are very close: *'*ammīma* > *'*ammīm* > יָּנֶיָם יָעָמִים > **qinnīma* > **qinnīm* > יָנָים > and **huqqīma* > **huqqīm* > '*i*uq*īm* > '*i*uq*ī*'. In the construct plural, the historical vowel and gemination are also preserved, as they are in the noun with suffixes. For example, note: 'עַמִי 'peoples of,' 'uִמִי 'my statute(s). Even for the heavy suffixes, the historical form is often retained: כָּלָכֶם ''all of you.'' Occasionally, the historical */u/ will appear as /å/ in THT (e.g., חַקַרָם and הַקָּרָם ''your statute'').

^{66.} In this way, it is like a set of nouns that attest a *qamets* after the first root consonant in the singular only when accompanied by the definite article. Especially noteworthy are the geminate nouns אַבָּוֹ/גַן "(the) garden" (< *gann); הָבָּר/הַר "(the) mountain" (< *harr); הָקר/חַר "(the) festival" (< *hagg); הַפָּר/פַר "(the) bull" (< *parr). Note too הָאָרָוון/אָרָוון (the) ark" and the ubiquitous "(the) land."

^{67.} See Huehnergard, "Biblical Hebrew Nominal Patterns," 36.

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Variations from these basic patterns mostly involve roots with a geminated guttural root consonant, which causes compensatory lengthening. In particular, note the words *parru > *par > " \exists " "bovine" and the plural *parrīma > *parrīm > *pārīm > ; \forall , and the word *sarru > *sar > *sar > ; \forall "prince" and the plural *sarrīma > *sārīm > *sārīm > *sārīm > *sārīm > . When vowels are lengthened to compensate for a missing consonant, they never reduce (e.g., " ψ ," "princes of").

Feminine marked geminate nouns are generally easy to identify. Due to the fact that their absolute form already contains the historical vowel and gemination, it is easy to predict their inflection. For example, note and gemination, it is easy to predict their inflection. For example, note (const. אָמָה (const. אָמָה) "cubits"; אָמָה (const. אָמָה) "cubit" and אַמוֹת (const. אָמוֹת) "cubits"; פְּנַת (const. פְּנַוֹת (const. פְּנַוֹת) "statute" and פּנוֹת (const. חָקָה, suffix יַקָּוֹת (const. יָקָנוֹת) "statutes." Again, the only forms difficult to identify are those with guttural consonants, as with the masculine geminates discussed above. Note, in particular שָׁרוֹתֶיה "cow" and שָׁרָה "princess." The */ā/ (> THT /å/) that is the result of compensatory lengthening does not reduce (e.g., "שָׁרוֹת" "her princesses").

Students should remember that the inflected forms of these words usually always reflect their base (*qall, *qill, *qull), with preservation of the historical short vowel and gemination of the second root consonant. This makes identification and production of these words relatively easy. Identifying the masculine absolute singular as from a geminate root, however, is more tricky. Still, (excepting the extremely frequent if son" and by "name"), nouns with two apparent root consonants and a *tsere* or *holem* are more often than not from a geminate root.

4.18. Segolate Nouns (Tables 6.9, 6.10, 6.11, 6.12, 6.13, 6.14)

Segolate nouns are like geminate nouns in that they derive from bases with short vowels and two consecutive consonants at their end, though in the case of segolates these final, consecutive consonants are not identical: **qatl*, **qitl*, **qutl*. As with geminates, the segolates exhibit greater development in their absolute and construct forms than in their suffixed forms, which generally are quite similar to their historical bases. In particular, the **qatl* base seems to have gone through several stages of development, which (according to one model) involved a shift from **malku* to **malk* to *melk* (= $\pi k_{c} = \pi k_{c}$) "king." In THT, a vowel appears between the two final consonants, though this is an epenthetic vowel that does not constitute

its own syllable, analogous in this way to the furtive patakh.⁶⁸ Where the second root consonant is a guttural, the */a/ vowel is often still attested, as with *ba'l (> בֿעל) "lord." More predictably, *qitl and *qutl nouns seem to have developed along lines similar to geminate nouns: *sipru > sepr = שמל "book" and *buqru > boqr = בקר "morning."69 Nevertheless, it should be emphasized again that in different dialects and different eras a given segolate noun might have been articulated with different vowels. That is, what was a *qatl noun in one era might have been a *qutl noun in another (cf. גופן "vine" in the MT with גופן in 1QIsaa at Isa 34:4). As mentioned above, even the MT evidences different stem vowels for what appear to be the same word (e.g., הָסָר "lack" and "לָסָר "lack"). Furthermore, notice that there are often discrepancies between pausal and suffixed forms of the same word; for example, يَزِير "plague" appears with a *qamets* in pause (e.g., Lev 13:50, implying a * *qatl* base), but appears with a hiriq with suffixes (נְגָעָי) Ps 38:12, implying a *qitl base).⁷⁰ Note similarly, פָשָׁע "crime," יֹם "opening," הָׁדֶם "in front."⁷¹

Similar to geminates, the construct forms of singular segolate nouns are identical in almost every case to the absolute forms (לָאָלֶדָ) "king" and "king of"). Also, with suffixes the segolates, like the geminates, reveal a form closer to or identical with their historical base. Thus, "my king" began as **malkiyya* and developed to **malkī* (> מָלְבָּרִי); "my book" began as **sipriyya* and developed to **siprī* (> מָלָבְרִי). **Qutl* segolates offer a slight variation: "my morning" began as **buqriyya* and developed to **buqrī* then to **boqrī* (> יָבָקָרִי).⁷² Even heavy suffixes are attached to this historical base (e.g., מָלָבֶכֶם, "your king").

The plural forms of the segolates are easy to predict as well. Unlike other nouns whose plural form is based on the stem of the singular, most segolate nouns have separate bases for their plural forms. Thus, although the singular of "king" would have been **malku*, the plural seems to have

^{68.} See the discussion in chapter 3 §3, "Developments of Individual Vowels."

^{69.} Note the exceptions in THT where the historical */i/ became eventually /ɛ/ (e.g., *qirbu > *qɛrb [غָרָב <]).

^{70.} See ch. 3 §4, "Lengthening and Lowering of Vowels in Tonic Syllables." For consideration of comparative evidence, see Lambdin, "Philippi's Law Reconsidered," 135–45 and Huehnergard, "Biblical Hebrew Nominal Patterns," 38–39.

^{71.} The last word appears with *tsere*, as לָּדְמָה with the locative *he* (e.g., Num 34:3).

^{72.} The word is used for consistency; cf. קִדְשָׁי "my sanctuary" (Lev 20:3).

been **malakīma*, with two short */a/ vowels in the stem. The result is that the base form develops just as דְּבָרִים develops: **malakīma* > **məlākīm* > מָלָרִים. The other segolate plural bases develop similarly:

- *siparīma > *səpārīm > סְפַרִים
- *buqarīma > *bəqārīm > דְּקָרִים

The forms with nonheavy suffixes are again similar in their development to the plural of דָבָר with suffixes:

- *malakaynū > *məlākēnū > מִלְבֹינוּ
- *siparaynū > *səpārēnū > יְסְפְרֵינוּ
- *buqaraynū > *bəqārēnū > גּקַלִינו

With heavy suffixes and with the construct, by contrast, the historical vowel (or, in the case of **qutl* bases, the */o/ vowel) is retained:

- *malakay > *malkē > מַלְבֵי
- *malakaykum > *malkēkem > מַלְבֵיבֶם
- *siparay > *siprē > אָסָפְרֵי
- *siparaykum > *siprēkem > אָסָפְרֵיבֶם
- *buqaray > *buqrē > *boqrē > *ț
- *buqaraykum > *buqrēkɛm > *boqrēkɛm > "boqrēkɛm > "
 *boqrēkɛm > "boqrēkɛm > "

Feminine segolate nouns are identifiable in BH based on the following characteristics: the first syllable begins with a root consonant and is a closed syllable. Unlike masculine-formed segolates, the feminine-formed segolates are stressed on their second syllable. Since the initial syllable will always be closed and unaccented, it will always have a short vowel:

- *malkatu > *malkā > מַלְבָה (queen)
- *dimʿatu > *dimʿā > דָמִעָה (tears")
- *hurbatu > *horbā > הְרְבָה (waste.")

^{73.} These nouns are used for consistency and due to their lack of guttural consonants.

Like the masculine-based nouns, most feminine-based segolates attest the vowel sequence $*a-\bar{a}$ for the plural:

- *malakātu > *məlākōt > מַלַבוֹת
- *dimaʿātu > *dəmāʿōt > דַמַעוֹת
- *hurabātu > *hŏrābōt > הַרָבוֹת.

Two nouns deserve separate mention for the irregular forms of their plural. These are שָׁבָשׁ "holiness" and שֹׁבָשׁ "root." In each case, the stem of the plural form exhibits the sequence *à-à* (represented by *qamets-qamets*) in THT, which presumably reflects an earlier sequence **ŏ-ā*; it would seem, therefore, that what was a muttered vowel has lengthened into a full vowel in THT. The word "holiness" appears as קָדָשִׁים, and with suffixes יָשָרָשָׁי,⁷⁴ the word "root" appears in the plural only with suffixes ישָׁרָשָׁי. The word distance attests the more expected plural forms with the definite article and suffixes: הַקַדָשִׁים and הַקָּדָשָׁים. Once in 2 Chr 5:7, the word even occurs with a *shewa* beneath the *qoph*: הַקַדָשִׁים.

In only very rare cases does a segolate noun attest a plural base that is analogous to the singular, that is, **qatlīm*/**qatlōt*, **qitlīm*/**qitlōt*, **qutlīm*/**qutlōt*. It is this rarer plural pattern that is attested in THT in the

^{74.} The plural form of מָּדָשׁ with suffix shows a full *qamets* in exilic (קָדָשׁיּ Ezek 22:8, 26; 44:8, 13) and postexilic works (קָדָשִׁיו in 2 Chr 15:18), but the expected form with *khatef-qamets* appears in Genesis–2 Kings (e.g., קָדָשִׁיו Num 5:10 and 2 Kgs 12:19). A *metheg* accompanies the form with full *qamets* in Deut 12:26, קִדְשִׁיָם.

^{75.} The forms with suffix and *khatef-qamets* are all preceded by some particle, while those with just *qamets* in the first syllable are not preceded by a particle. At the same time, this pattern does not hold for the plural forms of ψ , with suffix, which always attest a *qamets* under the first consonant.

following words: רָחֲמִים (sg. רָחֲמִים) ('bowels''; יַּשְׁמְים (sg. יָשָׁמָים) ('sycamores''; יַשְׁמָים (sg. מָשָׁתָים) ('flax''; חָכְמוֹת (sg. הְכָמָה) ('wisdom.''⁷⁶ These nouns exhibit no medial */ā/ (> THT /å/) with suffixes (e.g., רַחֲמֶׁים and יַרְחֲמִים).⁷⁷

Weak root consonants (primarily *aleph*, *vav*, and *yod*) often result in masculine singular absolute forms that are unusual. In THT, they do not appear with one of the characteristic vowel sequences: ε - ε , *a*-*a*, *e*- ε , *e*-*a*, *o*- ε , *o*-*a* ($\neg \dot{\zeta} \not{\zeta} \not{\zeta}$, $\neg \dot{\zeta} \not{\zeta} \not{\zeta}$, $\neg \dot{\zeta} \not{\zeta}$, $\dot{\zeta} \not{\zeta} \not{\zeta}$, $\dot{\zeta} \dot{\zeta} \dot{\zeta}$, $\dot{\zeta} \dot{\zeta}$, $\dot{\zeta} \dot{\zeta} \dot{\zeta}$, $\dot{\zeta} \dot{\zeta}$, $\dot{\zeta}$

When *aleph* is a first root consonant, the form of the segolate sometimes exhibits a full vowel where analogous forms have a *shewa* or *khatef* vowel. For example, note אָהָלָי (sg. abs. אָהָלי) "his tents"; אָרְחֹתָי (sg. abs.) "his paths."

When an *aleph* is a second root consonant, the form of the word usually looks like a segolate noun from Aramaic, with the sequence *shewa-sere* for **qitl* bases (יאָב "well," אָב "wolf," הָאָב "pain," הָאָר "flesh") or *shewa-holem* for **qutl* bases (יאָב "stench," הָאָר "very," and הָלא "fullness"). Although it is conceivable that some of these words arrived in Hebrew as Aramaic loanwords, it also seems likely that many are the result of a more complicated process, where medial *aleph* was lost in pronunciation sometime in the first millennium BCE, but was retained in spelling with the result that the nouns appear in an Aramaic-like form in the MT.⁷⁸ Thus, what was earlier **mu'du* "much" and **ši'ru* "flesh" (with nom. case vowels) became, respectively, **mod* and **šēr*; the representation of the words presumed by THT, however,

^{76.} See Joüon § 96Ab.

^{77.} It seems that in other traditions of Hebrew, reflected in the transcriptions of Hebrew words in Greek in passages from the church fathers, this pattern for segolates was more common. Alexey Yuditsky ("On Origen's Transliterations as Preserved in the Works of the Church Fathers" [Hebrew], *Leshonenu* 69 [2007]: 306) cites as one example the transcription $\alpha \rho \beta \omega \theta$ for what is $\Pi \Gamma \Gamma$ "wastes" in the MT at Ps 9:7. For similar, but less clear examples in the Secunda, see ibid., 305 and Brønno, *Studien*, 136–38. This pattern is also the common realization of segolate plurals in Aramaic.

^{78.} Cf. Blau, Phonology and Morphology, 55; Blau, On Pseudo-Corrections, 28–29.

A similar elision took place even earlier with *qatl nouns that had a historical medial aleph: *ra'šu "head" and *sa'nu "flock" must have experienced elision of aleph and compensatory lengthening of /a/ (*rāš, *sān) before the Canaanite shift, as suggested by the spelling of these words among the Amarna tablets where the pronunciation is assumed to have been $r\bar{o}su$ and $s\bar{o}nu$, respectively.⁸¹ The spelling with aleph in alphabetic orthographies (e.g., $\forall \forall \forall \uparrow \uparrow$) and $\forall \forall \forall \forall \downarrow \forall \downarrow \downarrow$) was preserved presumably based on influence of its other forms, like the plural *ra'asīm, which seems to have experienced the loss of internal aleph much later, after vowel reduction and vowel lengthening: *ra'asīm > *ra'āsīm (> $\Box \forall \forall \downarrow \downarrow$). The loss of an aleph when preceded by a reduced short vowel is attested in a variety of forms in LBH and among the DSS.⁸²

If the middle root consonant is *vav*, the word appeared as all other segolates in pre-Masoretic Hebrew, with a short vowel followed by two different consonants (e.g., **mawt* "death"). In THT, of course, two vowels are represented graphically, the first of which is /a/ and the second of which

^{79.} Nevertheless, the phonetic realization was [še²e:r] and [mo²o:d] (see Khan, "Tiberian Reading Tradition," 3:774). The preservation of the *aleph* was perhaps due to a more conservative pronunciation in a higher register of the language in the first millennium BCE and its continued articulation into the first millennium CE is perhaps encouraged by the secondary insertion of an epenthetic vowel after the first consonant (cf. Blau, *Phonology and Morphology*, 55).

^{80.} Reymond, *Qumran Hebrew*, 185–86. Note the similar loss of *aleph* in words like שָׁבִית "remainder" in late books of the Bible, as reflected in the spelling שֵׁרִית in 1 Chr 12:39.

^{81.} See ch. 3 §9, "Canaanite Shift and Historical */ā/"; also, Sivan, *Grammatical Analysis and Vocabulary*, 71.

^{82.} See n. 76 in ch. 3 §6, "Vowel Reduction." Reymond, Qumran Hebrew, 77-87.

is an epenthetic /ɛ/: *mawt > מָׁוָח. If the middle root consonant is yod, the earlier form was as expected (e.g., *zayt "olive"); in THT again two vowels are graphically present, a-i: *zayt "olive"); in THT again two vowels are graphically present, a-i: *zayt > וויד ילים איז לא די גער איז לא די גער איז will often look like the uncommon plural form mentioned above (with a single vowel in the historical base of the stem): *mawtīma > *mōtīm > and *zaytīma > *zētīm > וויתים. In both cases, notice that the relevant diphthong (*/aw/ or */ay/) has contracted where it occurs in a syllable that does not bear the tone. Sometimes, II-vav/yod segolates will exhibit the more common vowel sequence *a-ā in the plural, in which the middle vav/ yod is treated as a regular consonant: מִיָלִים/חִיָלִים/מִיָלִים/מָיָלִים/מָיָלִים "syring"; יָּיָרָים/עָיָרִים/אָיָרִים/אָיָרִים/אָיָרִים/אָיָרִים/אָיָרִים/אָיָרִים/אָיָרִים/אָיַרָים "young donkey"; מַיָרִים/אָיָרָים/אָיַרָים/אַיַרָ

The construct forms of most of these nouns exhibit the same diphthong contractions seen in the absolute plural (*mawt [const.] > *mōt and *zayt [const.] > *zēt); here again, the original diphthong is not in a syllable that bears the tone. Occasional exceptions appear; for example, עָׁוָל "injustice" has the construct form $\dot{\psi}_{ij}$. This noun is also interesting in that its suffixed form does not exhibit diphthong contraction (i.e., עָׁוָל "injustice") and neither does its feminine cognate (i.e., עֵוְלָה "injustice").⁸⁴ Compare this feminine noun with the feminine nouns from II-yod roots: עֵׁיָבָה "meat" and "zayt"

When the third root consonant is a *vav* or *yod*, the segolate noun has yet another form. Excluding the familial terms אָר "father," אָר" "father-in-law," as well as a few other nouns that exhibit uncommon patterns, most III-*vav/yod* segolates appear as III-*yod* and had the vowel sequence **a-i* in the absolute masculine singular (e.g., **qatl/*qitl: הָרַי* "weeping," יְבָר "goat kid," יְחַי "jawbone," עַרִי "sickness," עַרִי "fatherion," "שָרַי "balsam").⁸⁶ These segolates exhibit most other traits common to strong-root segolates: their absolute singular form is the same as their construct singular form; they exhibit their original vowel in the singular with suffixes (שָׁרָי "their captivity," "his sickness," שָׁרָי "beauty");⁸⁷ these same nouns exhibited the

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^{83.} See Huehnergard, "Biblical Hebrew Nominal Patterns," 34–35.

^{84.} See ibid., 34 n. 26.

^{85.} See ibid., 35.

^{86.} The noun פָּתִי "simple" is also part of this group, but attests penultimate stress (as if in pause) in all its occurrences in the sg. abs. in the MT.

^{87.} For the shift of *yod* to *aleph*, see ch. 2 §10, "Variation of Orthography and Pronunciation within Roots."

common vowel sequence *ə-ā in the absolute plural (אַדְיִים, גְּדְיִים, אָדְיִים, אָדָיִים, אָדָיִים, אָדָיִים, אָדָיִים).⁸⁸ Notice that in both the suffixed and the plural absolute forms the final *yod* has become consonantal.

A minority of III-*yod* roots attest alternative forms. For example, the construct form of the plural would rarely retain the */ā/ (> THT /å/): גָּדְײֵי "kids of" and "רְשָׁא "jawbones of." The III-*aleph* noun הַסָּא "isin" follows the same pattern in the plural construct, הַסָאַייֶם, and even with the second-person masculine plural suffix, הַסָאַייֶם Note also those words that seem formed on analogy to other III-*vav/yod* nouns with final -ɛ in THT: בָּׁכָה "mourning," הָגָה "moaning," הָגָאָר

In the nouns אָבי "father," אָבו "brother," and הָשָׁם "husband's father-inlaw" an */-ī/ vowel is implied after the second root consonant in the singular construct and forms with suffixes (e.g., אָבִי "father of," אָבִי "his father"; "brother of," אָבִיך "vour brother"; אָבִי "father of," אָבִיך "brother of," אָבִיך "vour brother"; אָבִי "father of," אָבִי "his father"; cal reflexes of historical */a/ help to distinguish the construct from the noun plus first-person common singular suffix: אָבִי "father of" versus "my father." The */-ī/ vowel is either the remnant of a genitive vowel and/or a reflection of its third root consonant (reflecting an early shift from III-w to III-y). Huehnergard reconstructs the development of the Hebrew word: *'abwum > 'abūm > 'abum > '

The absolute plural of אָבו is feminine in appearance: אָבוֹת. The word in the plural mostly appears derived from a root *'hh, as with the absolute אַרִים and with suffixes: אָרִים "my brothers"; אָרִים "his brothers" (with the shift of */a/ to /ɛ/ in THT, as with the definite article in הָרָים "the mountains"). But, the construct plural appears to be from the root *'hw (אָרֶים), as does the form of the plural with heavy suffixes (אַרֶים).

Nouns that clearly reflect a derivation from III-*vav* roots are comparatively fewer. Those that seem obviously derived from III-*vav* roots attest in THT a full vowel in their initial syllable and a *shuruq* at their end: אָאָרוּ "reeds, meadow"; מָרוּ "swimming"; מָרוּ "formlessness"; מָרוּ

^{88.} The forms מְּתָיִם and מְּלָיִם are defective, but reflect the common scribal practice of not writing two vavs or yods when the first is consonantal and the second a mater. The words are also spelled plene: מֵלָיִים.

^{89.} See Huehnergard, "Biblical Hebrew Nominal Patterns," 37.

^{90.} Ibid., 35. Bordreuil and Pardee (*Manual of Ugaritic*, 294) tentatively propose an etymology for the similar Ugaritic word: *'*aḥawu* > *'*aḥū*.

^{91.} For this last pair, see Huehnergard, "Biblical Hebrew Nominal Patterns," 41.

Feminine-formed segolates from III-*yod* roots are relatively rare. Note, for example, בְּרִית "captivity," and those with final *-*īt*, בְּרִית "mourning," "covenant," אֲבִיָה "captivity," and final gemination, בְּרִית "ship."⁹² Of III-*vav* roots, note the noun שֵׁלְוָה "quiet," which exhibits a consonantal *vav*.⁹³ The feminine noun "sister" (אָחוֹת) also exhibits consonantal *yod* (from an earlier *vav*) in some of its plural forms with suffixes (e.g., יָאַרָיֹתַיו, s^{*2}ahyōtāw).⁹⁴

Although most *qal* infinitives construct derive from the **qutul* base, a substantial number attest a segolate or segolate-like vowel pattern. First, recall that the *qal* infinitive construct with suffix appears to be of the **qutul* base, though it is really of the **qutul* base (e.g., לְשָׁמְרוֹ "to guard him" 1 Sam 19:11; cf. the **qutul* noun: לְשָׁמְרוֹ "for his holy place" Ps 114:2).⁹⁵ In addition, note the many cases of I-*vav/yod* and I-*nun* roots of the **qilt* base that bear the sequence of vowels one associates with segolates (e.g., שֶׁבָּמו inf. const. of נגש "approaching" and גַּשְׁמוֹ "his approaching"; לְשָׁבָּמ *wֶׁבָּמו* inf. const. of ישׁב "dwelling" and שִׁבְּמוֹ his dwelling"). Also, several examples of infinitives construct appear to be from feminine segolate bases (e.g., **qatlat:* אַהַבָּה "loving"; **qitlat:* יָרָאָה" "fearing"; **qutlat:* anointing").

Students should pay close attention to this important and somewhat complex base. The masculine absolute singular forms of these nouns can appear with a variety of different vowels, the second of which is usually an epenthetic vowel that is unaccented and does not mark an independent syllable: בָּעָל "king," בָּעַל "lord," מַׁכָּר "book," מָלָך "ice," הָבָּע "morning," לַּעָל "injus-"deed," בָּעָל "king," בָּאָש "stench," מָלָר "death," מָלָר "ice," הָאָש "injustice," לָבָר "sickness," מָרָר "formlessness," שָׁרָי "void." Feminine segolate nouns are usually recognizable from the word-initial closed syllable (where the initial consonant is a root consonant). "מַלְבָּה "fears," מָלָבָה "waste," שִׁרָיָה "captivity," מָלָןה

Despite the apparent variety and discrepancies in the above singular forms, most of these nouns share the following characteristics:

^{92.} See ibid., 37, 42.

^{93.} Cf. the III-yod אַלִיָה "fat tail" (ibid., 35).

^{94.} Note the forms without yod (e.g., אחוֹתִיד). Cf. ibid.

^{95.} See the discussion of *qal* inf. const. in \$8, "Nouns of the **qutul*, **qitāl*, and **qutāl* Bases," above. Note also that some *qal* inf. const. attest patterns similar to those of the **qitl* and **qatl* base (e.g., מְכָרָם "their selling" Neh 13:15; יַקַעַר "your stamping" Ezek 25:6).

- 1. The absolute and construct forms are the same in the masculine singular and vary in the feminine singular only in their ending (*- \bar{a} in the absolute and -at in the construct).
- 2. The absolute plural (in both masculine and feminine nouns) exhibited the vowel sequence $*\partial \bar{a}$ in the stem.
- 3. In the singular noun with suffixes, the original short vowel is preserved in the first syllable.
- 4. In the construct plural the original short vowel is also preserved.

4.19. Suppletive Plurals and Construct Forms in Nouns

In Hebrew, unlike in some other Semitic languages (e.g., Arabic), the plural forms for most nouns are clearly derived from the singular forms (e.g., **dabar* + *īma* > **dabarīm* > *[דָרָרים*]. However, in some cases, one finds words where the singular form is from one base and the plural is from another. The only class of nouns where this happens regularly in Hebrew is the segolates (see above: **malk* vs. **malakīm*). Some rarer exceptions to this rule are listed here.

Some geminate nouns that have a single vowel in their stem in the singular attest two in the plural: אָלָלִים "shade" in the singular but אָלָלִים in the plural. Sometimes even segolate nouns do not attest their expected base in the plural. Nouns of the **qitl* base sometimes have plurals of the **qatil* base, as with הָטָיַלִים and בָּסִילִים "idol(s)"; אָטִיעִים/גָטַע (and גָּטָעָי) "plant(s)"; הָרִיטֿתַיו/הָרָס

In other cases, the construct form of a word seems to be derived from a base different from that of the absolute. This is regularly the case with *mem*-preformative feminine nouns, as remarked on above (מַחֲשֶׁבָה), const. מַחֲשָׁבָה), with 3ms מַחֲשָׁבָהוֹ "thought"). But, this also occurs with other words and bases. Note the following cases where the construct form appears to exhibit a segolate-base or a segolate-like word-final consonant cluster: אָרָדָ "doe of," the construct form of אַיָּלָע "long of," the construct form of אָרָדָ "thigh"; שָׁרָדָ "thigh of" and יָרָדָר אָרָדָ "thigh"; בָּתַרָ "thigh"; בָּתַרָ

^{96.} See John Huehnergard, "Qāṭîl and Qəṭîl Nouns in Biblical Hebrew," in Maman, Shaʿarei Lashon, *24 (with references). Perhaps also הַרָיטִים/הָוָרָט "bag(s)" (?); יצָן (< *sinn as suggested by אָנִים "hooks, barbs") אַנִינִים "thorns." See ibid., *8.

^{97.} See Fox, Semitic Noun Patterns, 109.

that many of the byforms that appear as construct forms are similar in pronunciation and vowel sequence to Aramaic segolates: גְּבַר "man of" (Ps 18:26) versus גָּבָל "man"; הָבַל "man"; הָבָל "room of" versus שְׁבַע "room (of)";98 שָׁבַע seven of" versus שָׁבַע "seven of" versus שָׁבַע "seven"; הָשָׁע "nine of" versus שָׁבַע

4.20. Aramaic-Like Forms

A wide variety of nouns attest Aramaic-like forms, as observed in passing in the previous pages. These may be true loans from Aramaic (as with נְצִיב "pillar, overseer") or words formed on analogy to other words, as with "fool," on analogy to "stupid."¹⁰⁰ Note also these other Aramaicinfluenced words: בְּתִר "writing," בְּתָב "exile," and some other nouns like "ftime."¹⁰¹

4.21. Chapter Summary

Historical Details

- In some early ancestor of Hebrew, there were three different cases in the singular (nom. [marked by word final -u], gen. [-i], and acc. [-a]) and two cases in the dual (nom. [-āmi], gen./acc. [-aymi]) and plural (masc. nom. [-ūma], masc. gen./acc. [-īma]; fem. nom. [-ātu], fem. gen./acc. [-āti]).
- 2. These case endings eventually contribute to the various noun forms we are familiar with from THT; for example, the masculine plural morpheme -*im* derives from the absolute masculine plural genitive/accusative ending -*ima*: **dabar* + *ima* > **dabarīma* > **dabarīm* > **dabarīm* > "*iabarīm* >

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^{98.} Huehnergard, ("Biblical Hebrew Nominal Patterns," 36) lists this as a *qitl noun, though it appears in most of its suffixed-occurrences (and in the const. pl.) with a *patakh* in the first syllable; only once does it have a *segol* (Joel 2:16).

^{99.} In these types of words, the last letter is often a sonorous consonant (often /l/, /n/, or /r/). Note also הָסָר "want of" const. (vs. אָמָר מָל מָלָ "offspring of" const. (vs. יָשָׁנָר (vs. גָּשָׁנָר). See Richard Steiner, "On the Origin of the Héðer ~ Haðár Alternation in Hebrew," AfAsL 3 (1976): 2; Fox, Semitic Noun Patterns, 137.

^{100.} See Huehnergard, "Qāțîl and Qəțîl Nouns in Biblical Hebrew," *25.

^{101.} See Fox, *Semitic Noun Patterns*, 284; Stadel, "Aramaic Influences on Biblical Hebrew," 1:162–65.

3. A word with any suffix or suffixal morpheme will usually reveal a form close to its etymological origin (e.g., the *tav* in גַּהָבָתִי [< *'ahbātī < *'ahbatiyya] "my love" and the vowel and gemination in עַמִי [< *'ammī < *'ammiyya] "my people").</p>

Learning Tips

- 1. For most masculine nouns (excluding segolates):
 - 1.1. The vowel sequence in the stem of the plural is the same vowel sequence one sees with nonheavy suffixes.
 - 1.2. The vowel sequence associated with the construct form is the same vowel sequence one sees with heavy suffixes.
- Most feminine singular nouns that end with -ā (הַ, -) in the absolute have -āt- (תַ, -) before nonheavy suffixes and -at- (תַ, -) before heavy suffixes (e.g., אָדָקָתְי/צְדְקָתִי/צְדְקָתָי/צְדְקָתָי). Most feminine singular nouns that end with הַ, in the absolute, have -ה- before all suffixes (תֹ, יֹלֶדְתָּה/יֹלֶדְתָה/יֹלֶדָתָה).
- For most feminine plural nouns, the vowel sequence in the stem of the construct plural is the same sequence found in the noun with suffixes (e.g., בְרְכוֹתֵי blessings of " and בְּרְכוֹתֵי "my blessings").
- 4. The historical */i/ vowel reduces to shewa in the pretonic syllable in the following bases: *qātil (שׁפְּטִים/שׁפֵט "judge[s]"); *qattil (ישׁפְטִים/שִּפֵט blind" and בְּבְרָה/דַבֵר "limping" as well as בְרָה/דַבֵר "her speaking" piel inf. cons.); *maqtil (מִזְבַח).¹⁰²
- 5. If a root seems to be missing one root consonant, consider the following clues:
 - 5.1. Words similar in form to עם "people," קו "nest," היק "statute" are likely geminates; their etymology is usually clear in the plural and with suffixes (עַמִים "peoples," עַמִים "my people"; היק "nests," הָצָי "my arrow"; הַקִים "statutes," הָצָי "my statutes").
 - 5.2. The vowel sequence *ē-ā (corresponding to the symbols tsereqamets^{he} in THT) in a word with two obvious root consonants (e.g., בְּשָׁה) usually implies a I-vav/yod root, while a-a or ε-ε in THT with a final tav (e.g., בַּשָׁה) often imply a qal infinitive construct from a I-vav/yod root.

^{102.} Though contrast מֵגֶפָה "plague."

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- 5.3. A vav or yod mater in the middle of a word or even at its end will often indicate a vav or yod root consonant (e.g., מּוֹשָׁב "dwelling place" from ישׁב and מֵישָׁרִים "integrity" from ישׁב and מוֹשָׁר from מִישָׁר קקום "good" from טוב (song" from ישׁר "place" from שָׁנִי and קִרִיבָה "poor" קוב "from שָׁנִי and ישָׁנִי from שָׁנִי and ישָׁנִי from מָרָיבָה (עדה misery" from ישָׁנָי).
- 5.4. Words that end in -ɛ are likely from III-vav/yod roots (e.g., עשה "one who does" qal active ptc. from עשה). But, this vowel appears only in the absolute singular; in the construct singular one finds *-ē (e.g., עשה "maker of"). There is no evidence of either -ɛ or *-ē with plural morphemes or pronominal suffixes. Instead, these endings seem to attach directly to the stem (e.g., עשה "(she] makes," עשה "(they] make," עשה "(they] make," אישה "who made it").
- 5.5. A word that begins with a *mem* and is followed by a geminated consonant likely is a *mem*-preformative noun from a I-*nun* root (e.g., מָבָה "wound" from נכה מַבָּה "gift" from ננתן
- 6. Among segolates, the historical short vowel (or something close to it) is preserved in the singular with suffixes (מַלְבִּי "my king," מַלְבִי "my book," מָלְבִי "my holiness"); and in the plural construct (קַדְשִׁי ,סִפְרֵי ,מַלְבִי); as well as in most forms of the feminine (מַלְבָּתִי "queen," מַלְבָּתִי "my queen"; דְּמְעָתִי "tears," דְמְעָתִי "my tears"; מְלְבָּתִי "wisdom," חָרַמָתוּ "my wisdom").
- 7. Segolate nouns come in a variety of forms.
 - 7.1. Masculine nouns usually have two Tiberian vowels with the accent on the first:
 - 7.1.1. *qatl: בָּעַל "king"; בַּעַל "master"; מְלֶך "midst," בַּעַל "house"; אָתן "spring, eye"; שָׁחו "swimming"; אָרו "reeds"
 - 7.1.2. **qitl*: אָבָח "book"; שָׁמַע "news"; אָבָח "room," אָבָח "sacrifice"; אָבָ "ornament"; פָאָר "simple"; cf. בָּאַר
 - 7.1.3. **qutl*: אָֿרַח (morning) בֿקָר (way); הְלִי (way) אַרַח (sickness) בֿאו "emptiness"; cf. בָּאשׁ
 - 7.2. Feminine nouns usually have a closed first syllable that begins with a root consonant:
 - 7.2.1. *qatlat: מַלְכָה "queen"; אַהַבָה "love, loving"
 - 7.2.2. *qitlat: דִּמְעָה "tear"; יְרָאָה "fear, fearing"

7.2.3. **qutlat*: אָמָאָה "wisdom"; אָהָרָה "purity"; אַמְאָה "impurity."

- 7.3. most absolute plural segolates exhibit the sequence of vowel symbols shewa-qamets in their stems: אַבָּרִים, הְכָרִים, הְכָרִים, הְכָרִים, הְכָרִים, הְכָרִים.
- 8. Mnemonic Aids
 - 8.1. **qatil* in construct: "I am heavy of mouth (בְּבֵד־פֶּה) and heavy of tongue (בְּבַד לְשׁוֹן) Exod 4:10
 - 8.2. **qātil* with suffix: "his enemies (אַיְבָים [pl. abs. איִבִים, sg. abs. איִבִים) lick the dust" Ps 72:9
 - 8.3. feminine noun with suffix:
 - 8.3.1. "I await your salvation (יְשׁוּעָהָד)" Gen 49:18
 - 8.3.2. "my hope is from him (מְמָנוּ הַקָוָתִי) Ps 62:6
 - 8.3.3. "in your goodness (טוֹבָתָד) you provide for the poor" Ps 68:11
 - 8.3.4. "trust in the lord with all your heart and do not rely on your own understanding (בִּינָה [abs. בִינָה])" Prov 3:5
 - 8.4. III-vav/yod nouns
 - 8.4.1. in construct: "a people, stiff of neck (קְשֵׁה־עָׂרֶף])" Exod 32:9
 - 8.4.2. with suffix: "the lord is my shepherd (לְשָׁה [abs. רֹשָׁי])" Ps 23:1
 - 8.4.3. "you repay each person according to his work (בְּמַעֲשֶׁהוּ [abs. מַעֲשֶׁה)" Ps 62:13
 - 8.5. Geminate nouns
 - 8.5.1. **qall*
 - plural: "the race does not go to the swift (קַלָּם] [sg.
) ... but time and chance occur to all of them" Qoh 9:11
 - dual/plural + suffix: "you will eat by the sweat of your brow (אָפָיד) אַפָּיד) אַפָּיד [lit., your two noses = your face; dual abs. אַפָּיד) " Gen 3:19
 - 8.5.2. **qill* + suffix: "I have escaped by the skin of my teeth (שָׁנִים, abs. sg. שָׁנִי)" Job 19:20 (pause (שָׁנִים)
 - 8.5.3. *qull + suffix: "the lord is my strength (עָזָי) and my shield" Ps 28:7

8.6. Segolate nouns

8.6.1. **qatl*

- singular construct: "the land of the living (הַחַיִים)" Job 28:13
- plural construct: "ends of (the) earth (אַפְסֵי אֶֶׁרֶץ)"
 Deut 33:17 (pause אָׁרֵץ)
- singular + suffix: "for his kindness is forever (חַסָדוֹ)" Ps 136
- singular + suffix: "let us make humans in our image (אַלָם abs. בְּצַלְמֵנוֹ)" Gen 1:26
- plural + suffix: "bone of my bones (עָּצֶם מֵעַצְמַי)" Gen 2:23

8.6.2. *qutl

- singular construct: "pride (גבה רוח lit. haughtiness of spirit) (goes) before a fall" Prov 16:18
- singular + suffix: "my holy mountain (הר קָדְשָׁי) Isa
 11:9
- *qutlat singular + suffix: "at their wits' (הְכְמָתָם) end (lit., all their wisdom was engulfed [תִּהְבַּלְּע])" Ps 107:27
- 8.6.3. III-*vav/yod* plural + suffix: "Surely our sicknesses (אַלְיָם [abs. pl. הְלָיָם or הְלָיִם, abs. sg. יוָלִים]) he lifts and our pains, he carries them. We consider him stricken, struck by God, and afflicted." Isa 53:4
- 8.7. Irregular nouns
 - 8.7.1. woman/wife (אָשָׁה):
 - construct: "wife of your bosom (אָשָׁת חֵיקָד)
 Deut 13:7 [pause [חֵילֵּך])
 - + suffix: "a person abandons his father and mother and clings to his wife (אָשָׁה [const. אָשָׁתוֹ])
 - 8.7.2. daughter (בתה <**bint*): "as the mother, thus is her daughter (בתה) "Ezek 16:44
 - - construct: "from the mouth of children (מִפּי עֹלְלִים) you founded a bulwark" Ps 8:3
 - + suffix: "Joab put the words into her mouth (בְּפִיהָ)" in 2 Sam 14:3
 - + suffix: "let another praise you, not your mouth (פָּיָה)" Prov 27:2

5 Morphology of Ancient Hebrew: Verbs

5.1. Terms for the Verb

The verb forms described below will be referred to in relation to the THT articulation in the *qal* third masculine singular of the Hebrew root *qtl*. Thus, what is sometimes referred to as the suffix-conjugation or perfect verb form will be referred to here as *qåtal*; the prefix-conjugation or imperfect will be referred to as *yiqtol*, the *vav*-consecutive imperfect as *wayyiqtol*, and the *vav*-consecutive perfect as *waqåtal*. The jussive/preterite verb form (on which see below) will be referred to as the short-*yiqtol* since in weak verb classes (especially II-*vav*/*yod*, III-*vav*/*yod*) and in the *hiphil* conjugation it is phonetically and graphically shorter than the comparable *yiqtol* form.¹

This language attempts to avoid the confusion inherent in many other labels, which connect the verbal form with just one function (e.g., "perfect," as though the *qåtal* form only represented perfect or perfective events). Since each form can express several different nuances, it makes sense to label each according to one generic phonetic contour.² Even here,

^{1.} Compare the *qal* short-*yiqtol* in its jussive function אָשָׁשָת "do [not] set" (Exod 23:1) with the *yiqtol* אָשָׁת "you will set" (Ps 21:4) (שׁית); compare also the *qal* short*yiqtol* in its preterite function יָשָׁשָׁ "he set" (Ps 18:12) with the *yiqtol* "he will set" (Gen 46:4) (שׁית). Similarly, contrast יָבָו "ilet him build" (Ezra 3:1) with יּבָנו "he will build" (2 Sam 7:13) (בנה) and the *hiphil:* הַשָּׁחֵת "may you [not] destroy" (Ps 57:1 and passim) with יָשָׁתוֹ "you will [not] destroy" (Deut 20:19).

^{2.} As an example of a single form being able to express different nuances, consider *qåṭal*. Although the *qåṭal* form may express the perfective nuance, it may also be used "to express events that are remote" and in this sense "its function then approaches that of the preterite" (Jan Joosten, "Verbal System: Biblical Hebrew," *EHLL* 3:923). In addition, it can express certainty in the present tense when used in a performative expression (e.g., יָנָתִרָּת) (see ibid.). It can even be used to express epistemic

however, the terms are not perfectly clear: the short-*yiqtol* will often be identical in form to the regular *yiqtol* and it seems possible that at least some (if not most) speakers would not have recognized an independent short-*yiqtol* form for most strong roots.³ As for the labels of other verbal forms, there is less confusion as to the function and form of the imperative, cohortative, participle, and infinitives; thus, these labels are used.

The language employed to describe the functions of the various verbal forms should also be addressed, as should the correspondences between verbal functions and verbal forms. The terms perfective and imperfective refer to aspect, that is, how a speaker views a given event, either as complete or incomplete, respectively.⁴ The perfective is typically communicated through the *qåtal* and *wayyiqtol*, the imperfective by *yiqtol*, *waqåtal*, and the participle. The term preterite implies a verb that indicates past time reference, irrespective of its aspect (i.e., whether or not the event is viewed as complete).⁵ It is typically communicated by the *qåtal*, *wayyiqtol*, and short-*yiqtol*.⁶ The term volitive refers to verbs that indicate

modality: "he might …" "he should …" "he could …" (see Jan Joosten, *The Verbal System of Biblical Hebrew: A New Synthesis Elaborated on the Basis of Classical Prose*, JBS 10 [Jerusalem: Simor, 2012], 208–12).

^{3.} Nevertheless, a variety of factors (including the consistent appearance of paragogic-*nun* forms in nonvolitive contexts, e.g., אָלָא תַּוָּק (you will not fight" 1 Kgs 12:24 and אָמָתוּן "you certainly will not die" Gen 3:4) imply that some sophisticated speakers/writers would have recognized the existence of such short-*yiqtol* forms, even for strong roots (at least in their jussive function in the high literary register of the language). Note also the regular distinction in word order; the short-*yiqtol* in its jussive function usually appears first in its clause, while the *yiqtol* usually appears in noninitial position (see Joosten, *Verbal System*, 12).

^{4.} More complex definitions and descriptions are available; see Joosten, Verbal System, 28–31.

^{5.} See David Crystal, *A Dictionary of Linguistics and Phonetics*, 6th ed. (Oxford: Blackwell, 2008), https://doi.org/10.1002/9781444302776.

^{6.} A more complex description of the various Hebrew forms and functions is found in Joosten, *Verbal System* and in John A. Cook, "The Hebrew Verb: A Grammaticalization Approach," *ZAH* 14 (2001): 117–43, and Cook, *Time and the Biblical Hebrew Verb*, LSAWS 7 (Winona Lake, IN: Eisenbrauns, 2010). For instance, Joosten writes that the *qåtal* and *wayyiqtol* express the same temporal and aspectual nuances, but *qåtal* functions to indicate "anteriority with respect to the reference time" and *wayyiqtol* indicates simply a past time (Joosten, *Verbal System*, 45); similarly, *qåtal* can indicate (in dialogue) something that happened before the dialogue started, but *wayyiqtol* is not used (independent of an initial *qåtal*) for this (ibid., 48). A participle too can be used in the same context as a *qåtal* form, though the participle implies that the action/event is

the volition of the speaker. In BH this function is expressed through the short-*yiqtol, waqåţal*, the imperative, and the cohortative. The short-*yiqtol* is sometimes called the jussive when it functions as a volitive; it occurs primarily in the third- and second-persons and thus can be translated by the English expressions "let it …," "let her …," "let him …," "may you …"⁷ The imperative, on the other hand, occurs only in the second-person and the cohortative only in the first-person. Because English does not have a form that corresponds to the cohortative, it must be translated periphrastically (like the short-*yiqtol* in its jussive function). The cohortative is often translated "let me …," "let us …," though it can also be translated by other phrases depending on the context.

Of all the forms and functions, the most uncommon is the short-*yiqtol* where it functions as a preterite. Commonly recognized short-*yiqtol* forms functioning as preterites from the Hebrew Bible include the following.

- יַשָׁת he set" from שִׁית (Ps 18:12 vs. וַיֹּשֶׁת in 2 Sam 22:12)
- אָשָׁרָ "you forgot" from שִׁיה (Deut 32:18, parallel to הָשָׁרָ "you forgot")

For most strong verbs the short-*yiqtol* merged entirely in its form with the regular *yiqtol* and, as mentioned above, one cannot distinguish the two by the form alone; only context can guide one's translation and understanding in these instances. In most cases, where one finds the negative particle אל followed by a verbal form, that verbal form should be identified as a short-*yiqtol* (in its jussive function). Identifying the short-*yiqtol* in its preterite function is more difficult. In Deut 32:10, one finds it is clear that it refers to an event from the past and should be construed as a short-*yiqtol*.⁸ Thus, we translate "he found him."⁹

contemporaneous with respect to the reference time and the *qåţal* that it was anterior (ibid., 51). In archaic texts, *qåţal* also indicates anteriority, but functions as a "present perfect" (ibid., 418); e.g., אָנָאוּני they have made me jealous" (Deut 32:21).

^{7.} Verb forms bearing the characteristics of the short-*yiqtol* are also rarely found in the first-person (e.g., אָשָׁר l bent" Hos 11:4 and נָשָׁאַר "let us [not] leave" 1 Sam 14:36).

^{8.} For the example, see Joosten, *Verbal System*, 74–75. The short-*yiqtol* with preterite function is also thought to be attested after certain particles, like אָ and טֶׁרֶם (see, e.g., Seow, *Grammar for Biblical Hebrew*, 225; see Joosten, *Verbal System*, 110 n. 81 for more references). Nevertheless, constructions with טרם מרם שראם better explained as having a prospective function, expressing that something "had not yet happened

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5.2. History of the Verbal Forms

This chapter treats the morphology of verbal forms, excluding for the most part those already treated in chapter 4 (i.e., *qal* infinitives and participles).¹⁰ The verbal paradigms treated here can be broken down into two basic categories: (1) *qåtal* forms and (2) all other forms (e.g., *yiqtol*, imperative). In most cases, the transformations experienced by the verb in its inflections are fewer and less dramatic than those of the noun and adjective. Nevertheless, some knowledge of the history of the forms helps one produce and remember the verb in its various articulations.

The Hebrew *qåtal* derives from adjectival forms, to which pronominal suffixes were attached.¹¹ This kind of construction is attested in Akkadian, where suffixes are applied to verbal adjectives and even nouns. For example, the Akkadian word for king is *šarrum*. To say "you (ms) are king" one adds the pronominal suffix *-āta* to the end of the stem: *šarrāta*. As with the nouns studied above, there were different basic vowel patterns that led to different verb forms in later West Semitic languages. In BH, there are basically two categories of *qåtal* verbs, active (expressed by the pattern **a-a* > **ā-a* [> *å-a*, e.g., <code>jcf</code> "he wrote"]) and stative (expressed by the vowel patterns **a-i* > **ā-e* [> *å-e*, e.g., <code>jcf</code> "he is old"] and **a-u* > **ā-o* [> *å-o*, e.g., "ch is able"]).

Cognizance of this history for Hebrew helps make sense of the forms of the Hebrew *qåţal*, that is, as a combination of a nominal base plus a pronominal element: **katab* + *ta* = **katabta* > **kātabtā* > *kåtabtā* = *ç*țַתְרָתָּ "you wrote." In addition, this background also helps explain the fact that many Hebrew adjectives and nouns have the same form in THT as the *qal* third masculine singular *qåţal* of the same root (e.g., זְכָו [<**zāqēn*] "elder" passim vs. זְכָו [<**zāqen*] "he was old," 1 Sam 4:18 [cf. Prov 23:22 with זָקַנָה "she is old"]; קוט" good" passim vs. מוויד ישנות אוויד ישנות

or that it would happen" (Joosten, *Verbal System*, 282). The constructions with to are more difficult to explain; Joosten (*Verbal System*, 109–11) highlights the problems with previous explanations.

^{9.} In LBH, the regular *yiqtol* is sometimes used in this way: דָּסִיעָ "you brought forth" (Ps 80:9); see Joosten, "Verbal System: Biblical Hebrew," 3:924. For more examples, see Sperber, *Historical Grammar*, 436.

^{10.} See especially the discussion of nouns of the **qilt*, **qutul*, and **qātil* bases, as well as the discussion of infinitives that appears in ch. 4 18, "Segolate Nouns."

^{11.} Huehnergard, "Afro-Asiatic," 152.

ירָע "it will be evil" Prov 24:18). That the *qåṭal* verb form developed from an adjectival/nominal form also helps make sense of certain tendencies, like the similarity between the noun + possessive suffix and *qåṭal* + object suffix. When an object suffix is attached to the third masculine singular *qåṭal* verb in Hebrew, the verb sometimes appears like a noun in its vowel pattern: הַקָּרָה "he explored it" (Job 28:27; cf. noun + suffix הָדָרָה "her majesty" Isa 5:14); הַדָּרָה "he saw it" (Job 28:27; cf. noun + "its stem" Exod 25:31). Similarly, with the *piel*: שָׁרְחָה "he sent her away" (Deut 24:4).¹²

The other verbal forms all seem linked in some way. The *yiqtol*, the short-*yiqtol*, and the *wayyiqtol* all derive ultimately from the PS form corresponding most closely to the short-*yiqtol*. For this reason note the identical shape of the stem of the three forms in the strong root: יִשְׁמֹר, מוֹשָׁמָר, The imperative (e.g., אַשְׁמְרָה, The infinitives and participle of the derived conjugations also share the vowel sequences of the short-*yiqtol* (and *yiqtol*) forms (as explained below).

In order to understand the history of BH verbal forms, it is necessary to take a step back and consider the verbal system of PS. In PS, as it is reconstructed, it is believed that there was one verbal form that expressed the durative sense and another that expressed the preterite (or perfective aspect). Both were characterized by prefixal morphemes. The durative sense was communicated through a form having the basic pattern like **yaqattal* "he kills" (cf. Akkadian *iparras* "he cuts off").¹³ No morphological counterpart is found in West Semitic (= WS). If it had continued into WS, then the BH *qal* future/modal function may have been articulated as a form such as **yaqaṭṭal* > χ^* .

In PS, the preterite (or perfective) function was expressed by a verb form having the basic pattern **yaqtul* "he killed"; this same verb form also had a jussive function "let him kill."¹⁴ This form became the BH short-

^{12.} Though the nominal forms with this pattern (e.g., עור "blind") do not typically take suffixes.

^{13.} John Huehnergard and Christopher Woods, "Akkadian and Eblaite," *CEWAL*, 254; Joosten, *Verbal System*, 13.

^{14.} In Akkadian, we find analogous verbal forms and functions. The preterite is expressed in forms like *iprus* "he cut off"; what is called the precative is analogous to the Hebrew jussive and has the same form as the preterite with an initial /l/: *liprus* "let him cut off." Joosten, *Verbal System*, 15. Joosten ("Verbal System," 3:921) refers to the

yiqtol. Like its PS ancestor, the BH short-*yiqtol* can function either as a preterite or as a jussive, but in BH the preterite function appears only rarely, and primarily in poetry.

In addition to the basic pattern **yaqtul*, the forms **yiqtal* and **yaqtil* also presumably occurred in PS and were present in PNWS. The three possible theme vowels of the stem are still reflected in BH in verb forms that derive from the short-*yiqtol* (in the following cases with jussive function): אָלָבר (do (not) remember (iniquity)" (Isa 64:8); אָלָבר (do (not) set (a hand on the lad)" (Gen 22:12); איל (may (no fugitive) go forth" (2 Kgs 9:15). Verbs that exhibit the **yaqtul* pattern often are active; verbs that exhibit the **yiqtal* pattern are often stative or contain a II- or III-guttural root consonant; verbs exhibiting the **yaqtil* pattern are usually I-*vav/yod* roots (plus הלך to go" and נחל נה give"). As observed above, the prefix vowel shifted to **/i/* in **yaqtul* and **yaqtil* forms at some point early in the history of the language, though the original **/a/* is still reflected in some weak roots, as with the short-*yiqtol* of **yaqum > *yāqom >* "*j*" (let him arise."¹⁵

This PS **yaqtul* form also lies behind BH *wayyiqtol*. The initial component of this form consists of the *vav* conjunction followed by the vowel /a/ and a following *-*n*- particle (or, conceivably another particle or even simply a doubling of the prefix of the verbal form in order to preserve the preceding /a/ vowel).¹⁶ The *yiqtol* component of the *wayyiqtol* is from the PS jussive/preterite **yaqtul*. It is, of course, the preterite function that was retained in this BH verbal form. Thus, at least from a historical perspective, labels like "*vav*-conversive imperfect" and "converted imperfect" are really misnomers since they imply either a transformation in function (from imperfective to perfective/preterite) or a transformation in form (from a longer to a shorter verbal stem). But, there really was no conver-

[&]quot;optative function of the preterite" and refers to the article by Amikam Gai, "The Connection between Past and Optative in the Classical Semitic Languages," *ZDMG* 150 (2000): 17–28; see esp. 20–23; see also Joosten, *Verbal System*, 211.

^{15.} See ch. 3 §7, "Attenuation' and Similar Changes."

^{16.} David D. Testen (*Parallels in Semitic Linguistics: The Development of Arabic la- and Related Semitic Particles*, SSLL 26 [Leiden: Brill, 1998], 193–96) summarizes the different proposals, including *vav* + ³*az* ("then") and Testen's own suggestion *vav* + *al.* More recently, Kryzstoff Baranowski ("The Biblical Hebrew *wayyiqtol* and the Evidence of the Amarna Letters from Canaan," *JHS* 16 [2016]: 12–13, https://doi.org/10.5508/jhs.2015.v15.a12) suggests that the prefix of the verbal component is doubled in order to preserve the distinctive /a/ vowel following the conjunction.

sion in function or form. Instead, the PS jussive/preterite **yaqtul* simply continued to be used as a preterite in BH when preceded by the combination *wa* plus doubled verbal prefix.

In fact, in contrast to what one might expect, it is actually the *yiqtol* that is the result of a conversion or transformation in function, not the *wayyiqtol*. In PS, verbal forms in subordinate clauses were marked with a final /u/ vowel. Thus, the PS jussive/preterite in a subordinate clause would appear as **yaqtulu*, **yiqtalu*, or **yaqtilu* (depending on the root).¹⁷ It was this form that was used to express the future or imperfective sense in WS and which became the BH *yiqtol*. In relation to when such forms were used, notice that the earlier **yaqtul* and **yaqtulu* forms seem to be reflected in the Amarna letters (i.e., in the letters sent from the rulers of Levantine cities like Jerusalem, ca. 1350 BCE).¹⁸

This history helps explain why in cases of weak roots the short-*yiqtol* and the *wayyiqtol* have a similar (if not identical) form (e.g., יָבֶגָה "let him build" and יִבְגָה "he built") that differs from the *yiqtol* (e.g., יִבְגָה "he will build"). In weak roots, the difference in forms is the result of different phonetic developments, as explained above.¹⁹ In general, the *yiqtol* is longer than the short-*yiqtol* in both its historical articulation and in its graphic representation. Compare the forms of II-*vav/yod* roots like *yiqtol* and *wayyiqtol* do not (**yāqum* > 'ִק*i*q*i*and **wayyāqum* > ¹⁰).²⁰

19. For example, in the case of the III-*vav/yod* verbs, the early triphthong sequence vowel-*yod*-vowel at the end of the *yiqtol* form **yabniyu* contracted to a single final vowel on the *yiqtol*: **yibn* \bar{e} > *yibn*e = יִבְּוָה. By contrast, the shorter sequence vowel-*yod* at the end of the short-*yiqtol* form **yabniy* eventually dropped off entirely: (**yabn* >) *yibn* = *i*, Phonetically, the latter form can be represented [jiven], though again the last vowel does not constitute a separate syllable. Stated another way, the *segol* in *i*, *i*, is the reflex of *-iyu* and constitutes the second syllable of the verb form, while the *segol* in *i*, is an epenthetic vowel, which does not reflect a separate syllable in THT or in PS.

20. The primary exceptions to this general principle are the 1cs *wayyiqtol* verbs. In III-*vav/yod* roots, first-person forms that are explicitly short-*yiqtol* and that lack

^{17.} Again, Akkadian offers an analogous morpheme, as with the subjunctive preterite *iprusu* "[who] cut off." (In Akkadian, the subjunctive verb forms are used in subordinate clauses.)

^{18.} See Anson Rainey, *Canaanite in the Amarna Letters: A Linguistic Analysis of the Mixed Dialect Used by Scribes from Canaan*, 4 vols., HdO 1.25 (Leiden: Brill, 1996), 2:221 and passim; see also Baranowski, "Biblical Hebrew *wayyiqtol*"; and Hélène Dallaire, *Syntax of Volitives in Biblical Hebrew and Amarna Canaanite Prose*, LSAWS 9 (Winona Lake, IN: Eisenbrauns, 2014), 184–90, 216–17.

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This general tendency of the *yiqtol* being acoustically and graphically longer than the short-*yiqtol* and the *wayyiqtol* is also found in the *hiphil*, where the *yiqtol* often has a *mater* (e.g., **yašlīku > *yašlīk > *jāglīm > "jiệģļī" ("he threw"). This superficial rule also applies to the various <i>hiphil* forms of the II-*vav/ yod* verbs (**yaqīmu > *yāqīm >* ";çīu ~ "he will raise" vs. **yaqim > *yāqem >* yiệţi" ("he thim raise" and **wayyaqim > *wayyāqɛm >* "ji" ("he raised") and III-*vav/yod* verbs (**yabniyu > **jēţī" ~ "he will cause to build" vs. **yabniy > *yabn > *yɛbn* = ji^{\$}; "iet him cause to build" and **wayyabniy > *wayyabn* > **wayyɛbn* = ^{*}jēţī" ~ "he caused to build").²¹

In an earlier era, a final *-na* would have distinguished the regular *yiqtol* of second feminine singular, third masculine plural, and second masculine plural (e.g., **takrutūna* "you will cut"). In fact, sometimes BH has pre-

^{21.} The *hiphil* of בנה is used for the sake of comparison; note, e.g., the forms that do occur: וַיָּרֶבָה "may you multiply" (Ps 71:21); וַיָּרֶב (he will multiplied" (2 Sam 18:8).

served the *nun* of this ending: **takrutūna > *tikrutūn > tikrōtūn* (> הִקִרְתׁתוּן [in pause]) "you will cut" (Exod 34:13). The short-*yiqtol* (and by extension *wayyiqtol*) always lacked this *nun* (יַשְׁכְרְתוּ) "you cut" Jer 34:15). After this final *nun* was lost (from most 2fs, 3mp, 2mp *yiqtol* forms), there was no longer a clear distinction between these short-*yiqtol* and *yiqtol* forms. Where the *nun* is preserved in the MT, it is called a paragogic *nun* (on which, see below).

As for the imperative, the basic PS form was akin to that of the shortyiqtol (minus the prefix), which, for our purposes we can represent through the examples: **šmur*, **škab*, **tin* (for the equivalent of the *qal* conjugation); alternatively the forms might have been realized as **šumur*, **šakab*, **nitin*.²² In either case, an initial muttered vowel is implied in the Hebrew masculine singular (e.g., שָׁמָר and שִׁמָר, but cf. [בּו מוֹ מוֹ מוֹ הַרָּ מַרָרָיָה) and in the far less common feminine plural (בּוָ מוֹ מוֹ מוֹ מַרָּ בְּבָה and שִׁמְרָרָיָ). The feminine singular (בּוָרָיָ מַרְבָרָ as well as שִׁמְרָרָי) and the masculine plural forms (e.g., בָּרָבָי as well as שִׁמְרָרִי) exhibit the reduction of the stem's historical short vowel (as in the corresponding forms of the short-*yiqtol* and *yiqtol*); those imperatives with three root consonants attest an /i/ vowel in the first syllable.²³

The cohortative likely derives from a form like PS **yaqtul* followed by a final *-*a* or *- \bar{a} .²⁴ In an earlier era, this was part of a complete verbal paradigm (with third- and second-person forms), each form of which ended in a similar way. In the MT, third-person forms are only very rarely found (e.g., אָבוֹאָה "let him hasten" Isa 5:19 and אָבוֹאָה "let it come" Isa 5:19).²⁵ As with the other vocalic morphemes at the end of the *yiqtol* form, this suffixed /a/-class vowel resulted in the reduction of the verb's theme vowel (e.g., אָלְבָה, "let me go" Gen 24:56 and אָלְבָה, "let us cut" Gen 26:28).

Several more details of *yiqtol* morphology can be explained easily by reference to the history of the language. As mentioned above, one not infrequently finds second feminine singular, third masculine plural, and second masculine plural *yiqtol* verb forms containing a final *nun* (i.e., a *nun* following the $-\bar{i}$ or $-\bar{u}$ morpheme).

^{22.} Huehnergard ("Afro-Asiatic," 152) posits for PS an epenthetic vowel (e.g., **kutub*) or prothetic glottal stop (**'uktub*) to resolve the consonant cluster.

^{23.}Note the evidence of the Secunda: סוְשָׁמִע "hear" (cf. שָׁמָע); see Brønno, Studien, 52.

^{24.} Alternatively, it is related to the energic forms. See Steven E. Fassberg, "Cohortative," *EHLL* 1:476–77.

^{25.} Ibid. See also Job 11:17.

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- אַדְבָקִין "you will cling" (Ruth 2:21)
- ישמעון "they will hear" (Deut 2:25)
- יהַמְיוּז "they roar" (Isa 17:12)
- אַכרֿתון "you will cut" (Exod 34:13)
- האהבון "you will love" (Ps 4:3)²⁶

The *nun* in these cases is referred to as a paragogic *nun* and occurs exclusively on such forms (i.e., 2fs, 3mp, 2mp *yiqtol* verbs).²⁷ There are many such examples.²⁸ How these function in BH and what significance they have for the verbal system are unclear and debated.²⁹

As explained above, this *nun* is actually part of the older paradigm of the *yiqtol*. In an older stage of the language, the second feminine singular and third and second masculine plural *yiqtol* forms would have regularly ended with this *nun* (i.e., *-īna*, *-ūna*, *-ūna*). By contrast, the second feminine singular and third and second masculine plural forms in the short-*yiqtol* (and *wayyiqtol*) lacked this final *nun*.

^{26.} Among BH verb forms, it is only the 3fp and 2fp that typically end in a *nun* (e.g., הִקְטֹלְנָה), which may reflect either the short-*yiqtol* or regular *yiqtol*. The 3fp and 2fp *yiqtol* and related forms are used for both indicative and jussive functions (e.g., אֵל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הַאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הָאָל־הַאָל־הַאָל־הָאָל־הַאָל־הַאָל

^{27.} The term "paragogic" often refers to "a letter or syllable added to a word" (*OED*). Technically, this is an inaccurate description of the *nun* in question since verb forms with this *nun* are closer to the earlier base forms of the nonvolitive *yiqtols*; however, it should be recognized that some scribes/speakers could have added such a *nun* to the *yiqtols* for phonological reasons or due to a perceived sense that these forms were more sophisticated or "correct."

^{28.} See IBHS, 514–17. Tamar Zewi (A Syntactical Study of Verbal Forms Affixed by -n(n) Endings in Classical Arabic, Biblical Hebrew, El-Amarna Akkadian and Ugaritic, AOAT 260 [Münster: Ugarit-Verlag, 1999], 114–39 and passim) lists and discusses each example.

^{29.} In addition to Zewi, *Syntactical Study*, see Stephen A. Kaufman, "Paragogic *Nun* in Biblical Hebrew: Hypercorrection as a Clue to a Lost Scribal Practice," in *Solving Riddles, Untying Knots: Biblical, Epigraphic, and Semitic Studies in Honor of Jonas C. Greenfield*, ed. Ziony Zevit, Seymour Gitin, and Michael Sokoloff (Winona Lake, IN: Eisenbrauns, 1995), 95–99; W. Randall Garr, "The Paragogic *nun* in Rhetorical Perspective," in *Biblical Hebrew in Its Northwest Semitic Setting: Typological and Historical Perspectives*, ed. Steven E. Fassberg and Avi Hurvitz (Winona Lake, IN: Eisenbrauns, 2006), 65–74; V. De Caen, "Moveable *Nun* and Intrusive *Nun*: The Nature and Distribution of Verbal Nunation in Joel and Job," *JNSL* 29 (2003): 121–32.

Proof that the origin of the *nun* is in a distinction between *yiqtol* and short-*yiqtol* paradigms comes from comparative evidence and inner-Hebrew evidence. In other languages like Aramaic and Arabic, a final *nun* on second feminine singular and third and second masculine plural verb forms marks the verb as nonvolitive (or as indicative). By contrast, the jussive or volitive forms lack the *nun* (and are, therefore, shorter than the nonvolitive forms). That the Hebrew forms with the so-called paragogic *nun* go back to such earlier (nonvolitive) *yiqtol* forms is supported by the fact that verbs with the paragogic *nun* are almost universally negated with $\dot{\kappa}$ in the MT, not with $\dot{\kappa}$ (which is associated especially with the short-*yiqtol* in its jussive function). In addition, paragogic-*nun* forms are only very rarely found as *wayyiqtol* forms.³⁰

Another feature of BH that is related to verbal endings and with which the paragogic *nun* is sometimes confused is the energic *nun*. In BH, the energic *nun* appears almost exclusively with *yiqtol* forms that take an object suffix.³¹ With the first- and second-person object suffixes, the energic *nun* usually assimilates into the following consonant of the pronominal suffix (e.g., *'ăbārikan + kā > *'ăbārikakkā [> אָבְרְכֶהַ "I will bless you" Gen 26:3).³² With third-person suffixes, assimilation usually happens in the opposite direction: the first consonant of the suffix assimilates backward into the *nun* (e.g., **tabārikan* + *hū* > * *tabārikannū* > "you will bless him" 2 Kgs 4:29). This assimilation is possible because no vowel ever followed the energic *nun*.³³

Like the paragogic *nun*, the energic *nun* occurs almost exclusively on the *yiqtol* (i.e., not on the short-*yiqtol* or *wayyiqtol*).³⁴ It is distinct from

34. The energic nun occurs only three times on a verb form preceded by the nega-

^{30.} There are only nine examples in the MT (see Joüon §44e). Note, too, that many verb forms from III-*vav/yod* roots that attest a paragogic *nun*, also preserve a third *yod* root consonant (e.g., יְחָזָיוֹן "they will [not] see" Isa 26:11). Also at Deut 8:13; Isa 17:12; 21:12; 31:3; 33:7; 40:18; 41:5; Pss 36:8, 9; 39:7; 78:44; 83:3; Job 19:2; 31:38. See also Zewi, *Syntactical Study*, 73.

^{31.} Note, however, some have proposed that certain forms that look like 3fp forms are actually energic forms without suffix, like הַשָּׁלְחָנָה "she sent" (Judg 5:26). See Joüon §61f. For all the examples of the energic *nun*, see Zewi, *Syntactical Study*, 75–114, 141–52.

^{32.} Contrast this with the nonenergic form: אֲבָרֶכְן "I will bless you" Gen 22:17.

^{33.} In pause the *nun* sometimes does not appear to assimilate, though this is extremely rare (e.g., יַעָבְעָׁבָוֹוּ "it will [not] pass" Jer 5:22; note also in Exod 15:2, Deut 32:10, and Ps 72:15; Zewi, *Syntactical Study*, 75 n. 57).

the paragogic nun in several ways. First, whereas the paragogic nun occurs only on forms with a final vowel morpheme (i.e., final /i/ or /u/), the energic nun occurs only on forms without a final vowel morpheme, including third and second masculine singular, third feminine singular, and first common singular and plural forms. Second, the energic nun occurs only between the stem and object suffix. It does not occur on verbal forms without an object suffix.³⁵ The energic *nun* is really part of an earlier and separate verbal paradigm, each verb form of which ended in *-an or *-n (e.g., **višmuran* "he will guard"). Again, it is other Semitic languages that suggest this origin. In Arabic, for example, the energic forms constitute two entire verbal paradigms, one a long form (ending *-anna*) and the other a short form (ending -an). Similar forms appear in Ugaritic with suffixes. In the end, BH only seems to reflect the short form. These energic endings in BH have no easily discernible semantic significance for the verbs to which they are attached.³⁶ One may note, however, that given the *nun*'s distribution, it can often be assumed that a verbal form with an energic ending is a regular *yiqtol* form.³⁷

The energic endings are usually easy to identify since they are often analogous to the forms of suffixes attached to the preposition *min*.

הַמָּגִי "from me" and יוֹעָדֶׁנִי "he will summon me" (Jer 50:44) [hiphil
 זיעד³⁸

tive particle אַל (all three occurrences appear in Job); the energic *nun* appears only nine times on a *wayyiqtol* form (seven out of the nine times in poetry). In a further sixteen cases (almost all in poetry), close proximity with volitive forms suggests that the verbal form with energic nun and suffix is really a short-*yiqtol* (e.g., Job 12:8). Contrast these figures with the 533 occurrences of the energic *nun* with the regular *yiqtol*. Cf. the *wayyiqtol* + suffix, אָשָׁלָחָרוי "so, he sent him" (Gen 37:14), with the regular *yiqtol* + energic *nun* + suffix: יִשְׁלָחָרוי "he would send him" (1 Sam 18:5). See Blau, *Phonology and Morphology*, 172.

^{35.} See n. 31 above for possible exceptions.

^{36.} See Zewi (*Syntactical Study*, 75–114, 141–52) for a thorough review of where and how these forms are used.

^{37.} This does not mean, however, that every form without an energic *nun* is a short-*yiqtol*; the regular *yiqtol* can also occur without an energic *nun*. But, note this significant tendency: in prose texts, the 3ms object suf. on a regular *yiqtol* will almost always have an energic *nun* before it (See Blau, *Phonology and Morphology*, 172).

^{38.} Often, however, the suffix has a *patakh*, as in הְּבְרֲלֵגִי "you will bless me" (Gen 27:31).

- אָצַעָּלֶדְ "I will command you" (Exod 7:2) [piel צוה]
- הַמָּאָנָה "from her" and יַקְטִירֶינָה "he will offer it" (Exod 30:7) [hiphil
 [קטר]
- אָמֶׁנוּ "from him" and הְבְרְכֶׁנוּ you will [not] bless him" (2 Kgs 4:29) [*piel* ברך]³⁹

Where one finds a *nun* between a third masculine plural or second masculine plural verbal stem and a suffix, it is usually identified as a paragogic *nun*, not an energic *nun* (e.g., יְשָׁחֲלָנְגִי "they will seek me" Prov 1:28; "מָשָׁחֲלָנְגִי and you will crush me" Job 19:2).⁴⁰ In cases like וּתְדַבְּאוּנִגַי assumes an earlier form with a historical short vowel after the *nun* (one assumes /a/ of the paragogic *nun*-ending, **yušaḥḥirūnanī*). The energic *nun* was not followed by a short vowel and, thus, would have resulted in assimilation.⁴¹ Despite the different origins, likely by the mid-first millennium BCE, the verbs with energic *nun* + suffix and those with paragogic *nun* + suffix were conceived of as part of a single paradigm. Note, for instance, that in Jer 5:22 a pausal verb with paragogic *nun* + suffix, "יַשַּרְלָנְהוּ cally parallel to) a pausal verb with energic *nun* + suffix, "יַשָּרְלָנָהוּ [not] pass it."

^{39.} Energic *nun* does not appear with most plural suffixes; there is only one example of the 1cp suffix (Hab 3:16), and none of the 2mp, 2fp, 3mp, 3fp.

^{40.} Note also יָמְצָאָנִגִי (pause) "they will serve you" Isa 60:7; יְמְצָאָנָגִי (pause) "they will find me" Prov 8:17. The energic *nun* is never followed by a vowel. Zewi (*Syntactic Study*, 116–17) lists some of the examples (though others can be found: Hos 5:15; Ps 63:4; Prov 8:17).

^{41.} Alternatively, examples like יְעָרְרָׁוָהוּ are representative of a second energic paradigm, like that in Arabic, which ended in -(*a*)*nna* (i.e., **ya*^c*burunnahū* > **ya*^c*burunnahū* > **ya*^c*barunhū*). Or, the above pausal forms like יְשַׁתְרָׁנִיָּ are due to a secondary archaizing formation of the energic paradigm.

presented in	n the follow	ving manner			
Time period	qåṯal	short- <i>yiqtol</i>	yiqtol	imperative	energic ⁴²
		third mas	culine singula	ır	
PNWS	*šamara	*yašmur	*yašmuru		*yašmuran
BH 100 BCE	*šāmar	*yišmor	*yišmor		*yišməren(+nū)
THT	šåmar	yišmor	yišmor		yišmrɛn(+nu)
		third fem	inine singula	r	
PNWS	*šamarat	*tašmur	*tašmuru		*tašmuran
BH 100 BCE	*šāmərā ⁴³	*tišmor	*tišmor		*tišmərɛn(+nū)
THT	šåmrå	tišmor	tišmor		tišmrɛn(+nu)
		second ma	sculine singul	ar	
PNWS	*šamarta	*tašmur	*tašmuru	*š(u)mur	*tašmuran
BH 100 BCE	*šāmartā	*tišmor	*tišmor	*šəmor	*tišmərɛn(+nū)
THT	šåmartå	tišmor	tišmor	šmor	tišmrɛn(+nu)
		second fer	ninine singula	ar	
PNWS	*šamarti	*tašmurī	*tašmurīna	*š(u)murī	*tašmurin
BH 100 BCE	*šāmart	*tišmərī	*tišmərī	*šimrī	-
THT	šåmart	tišmrī	tišmrī	šimrī	-
		first com	imon singular		
PNWS	*šamartu	* ² ašmur	*`ašmuru		* ³ ašmuran
BH 100 BCE	*šāmartī	* ² ešmor	* ² ešmor		-
THT	šåmarti	`ešmor	`ešmor		-
		third ma	sculine plura	l	
PNWS	*šamarū	*yašmurū	*yašmurūn	а	*yašmurun

In outline, then, the historical development of BH finite verbs can be presented in the following manner:

*yišmərū

yišmru

_

_

*yišmərū

yišmru

BH 100 BCE

THT

*šāmərū

šåmru

^{42.} One could also include a separate column for the earlier paradigm from which the cohortative derived: **yašmura*, etc.

^{43.} During this time period, this and similar forms were presumably also sometimes pronounced with a full vowel in the penultimate syllable, as reflected in some forms of the Secunda. The same applies to the 3cp *qåtal* and the 2fs, 3mp, and 2mp short-*yiqtol*, *yiqtol*, etc.

third feminine plural							
PNWS	*šamarā	*yašmurna	*yašmurna		_		
BH 100 BCE	-	*tišmornā	*tišmornā ⁴⁴		_		
THT	-	tišmornå	tišmornå		-		
		second m	asculine plur	al			
PNWS	*šamartumu	*tašmurū	*tašmurūna	*š(u)murū	*tašmurun		
BH 100 BCE	*šəmartɛm	*tišmərū	*tišmərū	*šimrū	-		
THT	*šmartɛm	tišmru	tišmru	šimru	-		
		second fo	eminine plura	ıl			
PNWS	*šamartinna	*tašmurna	*tašmurna	*š(u)murna	-		
BH 100 BCE	*šəmarten	*tišmornā ⁴⁵	*tišmornā	*šəmornā	-		
THT	*šmarten	tišmornå	tišmornå	šmornå	-		
		first co	mmon plural				
PNWS	*šamarnū	*našmur	*našmuru		*našmuran		
BH 100 BCE	*šāmarnū	*nišmor	*nišmor		*nišmərɛn(+nū)		
THT	šåmarnu	nišmor	nišmor		nišmrɛn(+nu)		

Although the above verbal forms are based on the strong root for the basic stem (BH *qal*), the other conjugations (*piel, hiphil*, etc.) would have attested similar features and paradigms. That is, the third masculine singular *hiphil qåțal* would have ended in an /a/ vowel, **hašmira*, just as the above third masculine singular form does. Similarly, the energic would also have occurred in the *hiphil*, **yašmiran*.

The most essential thing for students to remember from this history is the underlying correspondences between the short-*yiqtol, wayyiqtol, yiqtol,* imperative, and cohortative forms. Usually, these forms contain the same stem vowel(s) and inflect in a similar manner. From a pragmatic perspective, due to these correspondences, one can often predict the various forms of the verb based on a knowledge of just the third masculine singular and third masculine plural *yiqtol.* In addition, it is important to remember

^{44.} The 3fp *yiqtol* begins with *tav*, due presumably to an association of this letter with feminine marked verbs. The earlier form with prefix *yod* is reflected in only three forms in the MT (e.g., וַיָּשׁרְנָה "they went straight" 1 Sam 6:12; see Joüon \$44d).

^{45.} The 2fp short-*yiqtol* and regular *yiqtol* are the same. Note, e.g., אַל־תִּשְׁלַחְנָה "do not send" Obad 13 vs. לא תְחֵזִינָה "you will not see" Ezek 13:33.

the even closer connection between the short-*yiqtol* and *wayyiqtol*. In general (and as the label implies), the short-*yiqtol* and *wayyiqtol* are shorter than the regular *yiqtol*. In both strong and weak roots, the short-*yiqtol* and *wayyiqtol* do not typically attest the paragogic *nun* or the energic *nun*. Graphically, the theme vowel of short-*yiqtol* and *wayyiqtol* weak verbs is often not marked with a *mater*, though such marking is regular in the *yiqtol* (e.g., ^yק'd) (e.g., ^yq'd) roots, the short-*yiqtol* and *wayyiqtol* lack all trace of the third root consonant (e.g., ⁱt'g' ("he reveals") Job 36:15 and ⁱt'g' ("he will [not] reveal" 1 Sam 20:2).

5.3. Verb with Object Suffixes

Object suffixes on the *qåțal* are for the most part the same as those on the noun. The primary exceptions include the following: the first common singular suffix has a *nun* (e.g., שָׁלָחַׁוּיָ "he sent me" Num 16:28) and the third masculine singular suffix sometimes has a *he* (e.g., יְּבָרְגְׁתְהוּ Judg 9:54; and שָׁבָרְוֹהוּ "they did [not] serve him" Judg 10:6).⁴⁶ In other cases, the third masculine singular *qåțal* has a simple vowel, like the suffix on the noun (e.g., הָרָגוֹן הַרָּגוֹן הַרָּגוֹן "he killed him" Gen 4:25).⁴⁷ Sometimes, the vowel suffix is due to assimilation of *he* (i.e., **gamalat* + *hū* > **gəmālattū* > tige singular singular 10:24).

Often, if there is a full vowel between the *qåṭal* verbal form and suffix, it matches the vowel of the earlier PNWS form. For the third masculine singular and second masculine singular *qåṭal*, the vowel is an /a/-class vowel (cf. **šamara* and **šamarta*).

- עַשָּׁהוּ (Ps 95:5)
- שָׁלָחַנִי "he sent me" (Gen 45:5)
- שַׁלַחְהָנִי "you sent me" (Exod 5:22)

This is important to remember because it can sometimes help disambiguate otherwise similar forms. For example, עַנִיתָם (the 2ms of + ענה) +

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^{46.} The 3ms suffix on nouns also exhibits a *he* if the noun to which it is attached is from an etymological III-*vav/yod* root, e.g., שָׁלָהוּ "his field."

^{47.} This is perhaps derived from a form with an /a/ linking vowel (i.e., *haragahū [> *haragau] > *haragaw > *hărāgō > [הָרָגוֹ]); see Garr, Dialect Geography, 103 and note the alternative explanations listed in Hutton, "Epigraphic Hebrew," 1:838.

the 3mp object suf.) "you answered them" (Ps 99:8) has a *qamets* and is thus distinct from the second masculine plural *qåṭal* (without object suf.) "עַנִיתָם" (you did (not) answer" (Isa 65:12). Similarly, the /a/-class linking vowel of the *qåṭal* + object suffix is distinct from the /i/-class linking vowel of the imperative + object suffix. Compare, for example, the *qåṭal* form 'שָׁלְחֵׁנִי "he sent me" (Gen 45:5) with the imperatival form 'שָׁלְחֵׁנִי "send me!" (Isa 6:8); also with weak roots: 'עָבָּנִי "send me!" (Isa 6:8); also with weak roots: 'עַבָּנִי "ine singular /ō/ suffix (e.g., 'בִּרָנוֹ (1 Kgs 18:26). Because the third masculine singular /ō/ suffix (e.g., 'בִּרָנוֹ (e.g., 'הַבָּרָנוֹ) suffix (e.g., 'בִּרָנוֹ) is likely derived from a form with an /a/ linking vowel, one does not find it on forms ending in a historical /i/ or /u/ (e.g., 'בַּרָלָהוֹ). Imperatives and non-*qåṭal* forms also do not attest the third masculine singular /ō/ suffix since they usually attest an /i/ linking vowel (e.g., "עָרָהָלוֹ). Imperatives and non-*qåṭal* forms also do not attest the third masculine singular /ō/ suffix since they usually attest an /i/ linking vowel (e.g., 'עָרָהָלָהוֹ).

The second feminine singular *qåṭal* also seems to reflect its earlier vowel: יְלִדְהָׁנִי "you bore me" (Jer 15:10). The second masculine plural is the same: הְשֵׁלִיתִׁנוּ "you brought us up" (Num 20:5). Of course, the final /ū/-vowel of the third common plural is preserved before suffixes (e.g., הְשֶׁלִיתוֹ "they will eat it"; וְשָׁבוּם "they will capture them" in 1 Kgs 8:46 [שׁבה]). The primary exception to this general principle is the first common singular, which shows the vowel of its later articulation (*/ī/ not */u/): דְצִוּיָתֹיָן "I commanded you" (Gen 3:11).

With these object suffixes, the *qåtal* often reveals a vowel pattern within its stem similar to that of nouns + suffix. This is due to the common development of both categories of words. Thus, the addition of a suffix to the third masculine singular verb results in the initial sequence of vowels $*a-\bar{a}$. Note, for example, **haragahu > *haragō > *hărāgō > "he* killed him" (Gen 4:25). Note similarly the form הַקָרָה "he explored it" (Job 28:27). The vowel patterns of these verbal forms are analogous to those of דְבָרוֹ "his word" דברה and "her word." The initial sequence $*a-\bar{a}$ is also found in most other gal third-person verbal forms with object suffixes (e.g., הַרְגָׁתָהוֹ "she killed him" and עֵבִדוהו "they served him"). Unlike the third-person forms, the first- and second-person forms begin with the sequence *a-a (e.g., יְדָעָתוֹ "you do [not] know him" Deut 22:2). Remembering these vowel sequences is especially helpful for distinguishing quickly a third feminine singular verb from a second masculine singular or first common singular verb. With the weak root, the vowel sequence also resembles that of a noun: עניתם "he saw it" (Job 28:27; cf. קנה "its stem" Exod 25:31); עניתם "you answered them" (Ps 99:8; cf. בריתו his covenant" Deut 4:13).

INTERMEDIATE BIBLICAL HEBREW GRAMMAR

Usually the lexicon of BH is such that the *qåtal* form with object suffix is not homophonous with a noun plus possessive suffix. For example, when a third-person masculine singular object suffix is added to the *yiqtol* verb 'ידע, one gets the form 'יְדָעָ' "he knew him" (Deut 34:10); no noun exists that would result in the form 'יְדָעָ'. Instead, the same root attests nouns like אין "גער אוש" (knowledge" and 'יְדָעָ' "he spoke" and 'דְבָר' articulated in the *piel* (e.g., 'דָּבָר' he spoke" and 'דְבָר' "he ldid] not speak it" Deut 18:22) or as the *qal* in the participle (e.g., 'דָּבָר' his word."

Object suffixes on *yiqtol* verb forms are easily recognizable and are the same as those for the *qåţal*. If there is a full vowel linking the verbal form with the suffix, it is usually an /i/-class vowel, represented in THT by either *segol* or *tsere* (e.g., יָשָׁבְּטָׁנִי "he will judge me" 1 Sam 24:16; יִשָּׁבְטָׁנִי "you will send us" Josh 1:16), in contrast to the /a/-class vowel commonly found between a suffix and a third masculine singular or second masculine singular *qåţal* form.⁴⁹

For those prefix verbal forms that have an /o/ theme vowel, the underlying /u/ vowel generally reduced before suffixes (e.g., יָשָׁבְּטָׁנִי). This is consistent with the pattern we observed above, where a historical short */u/ will often reduce in the pretonic position.⁵⁰ In those cases, where the theme vowel of the *yiqtol* is /a/ (e.g., 'שָׁלֵל הוו the will send" and 'יִשָּׁלָ '' "he will send" and 'יִשְׁלֵל הוו the form with suffix will reflect */ā/; note, for example, i, '', '' you will send us" (Josh 1:16) and 'יִשְׁמְעַנִי "he will hear me" (Exod 6:12). This also follows the vowel pattern, noted above, where a pretonic historical */a/ in an open syllable is usually lengthened to */ā/.

With suffixal morphemes and pronominal object suffixes, the shortyiqtol and wayyiqtol have forms identical to those of the yiqtol. As mentioned above, however, in prose the regular yiqtol plus third masculine

^{48.} In a similar way, the *yiqtol* verb ילד with 2ms object suffix is יָלְדָהָ "he engendered him" (Deut 32:18). The root ילד attests nouns that, with the application of the 2ms suffix, would not result in an analogous form (e.g., גָּלֶד) with the 2ms would be יַלְדָלָדָהָ

^{49.} There are exceptions, of course: יִלְבָּלָי "lest it cling to me" Gen 19:19; יַלְבָּשָׁם "he will wear them" Exod 29:30; אַמִילַם "I will cut them off" Ps 118:10, 11, 12.

^{50.} An /i/-class theme vowel will also reduce to shewa with object suffixes (e.g., יְתָוֹ vs. יְתָוֹ "he will set me" Jer 9:1), again reflecting the tendency for pretonic /i/ to reduce in open syllables where the vowel of the propretonic syllable cannot reduce (cf. *šāpitīma > *šōpptīm > šōpptīm > "judges").

singular suffix usually exhibits an energic *nun: *-ɛnnū* (e.g. יִשְׁלְחֶׁנּוּ), while the short-*yiqtol* and *wayyiqtol* appear without it: **-ēhū* (e.g., וַיִּשְׁלְחָׁהוּ).⁵¹

The object suffixes attached to the imperative are again those associated with the other verb forms. Since the imperative is related to the *yiqtol*, it also attests an /i/-class linking vowel between verb and suffix. This is useful in distinguishing the imperative from the *qåtal*, as mentioned above (e.g., שָׁלָחֹנִי, "he sent me" vs. שָׁלָחׁנִי "he answered me" we we send me!" and שָׁלָחׁנִי "he answered me" vs. שָׁלָחׁנִי "answer me!"). Notice, however, that the third feminine singular object suffix often exhibits an /a/-vowel (e.g., לְּבְדָה, "take it!" 2 Sam 12:28; לַמָּדָה "teach it!" Deut 31:19).

With suffixes, the stem of the *qal* imperative exhibits different forms, in each case associated with the theme vowel of the verb in the *yiqtol*. The verbs with an /o/ theme vowel in the *yiqtol* are characterized by an /o/ vowel in the first syllable of an imperative + suffix form (e.g., יוֹכְרָיָי < **zokrēnī* < **zukrēnī* < **zukurini* "remember me" Judg 16:28). Verbs with an /a/ theme vowel in the *yiqtol* are characterized by the same sequence of vowels as found in the *qåţal* and suffix (e.g., שׁׁמְעֵנִי < **šəmāʿēnī* < **šamaʿini* "hear me!"). This reflects the same tendencies for pretonic /u/ to reduce and for pretonic /a/ to lengthen (in open syllables) noted above.

Where the masculine singular imperative takes the long form with final */ā/, the verbs with an /o/ theme vowel in the *yiqtol* attest the same pattern of vowel shift in their stem as with object suffixes: שָׁמְרָה "guard!" (Ps 25:20). But, verbs with an /a/ theme vowel show a different pattern. Usually, the imperative looks like a feminine **qåţal* segolate (e.g., שָׁמְעָה "hear!" Ps 17:1).⁵²

Students should remember that often the *qåṭal* + suffix contains an /a/-class vowel between the stem and suffix, but the *yiqṭol* and imperative contain an /i/-class vowel.

5.4. Verbs in the Non-*Qal* Conjugations (or Binyanim): General Comments

Certain consistencies between all strong and guttural roots in the different conjugations should be pointed out since this makes learning and predict-

^{51.} See Blau, Phonology and Morphology, 172.

^{52.} Sometimes, it reflects the same sequence of vowels as the *qåṭal* + suffix and imperative + suffix, that is, *ə-ā (e.g., רְפָאָה "heal!" Ps 41:5; שְׁמְעָה "hear!" and סְלָחָה "pardon!" Dan 9:19).

ing the various inflections comparatively easy. These consistencies, moreover, usually have historical explanations that have already been introduced elsewhere.

- In all conjugations (except the *qal*), the vowels of the name of the conjugation indicate the sequence of vowels in the third masculine singular *qåtal* (e.g., *niphal* implies **i-a* as in ⁵³. In the *pual*, *hophal*, and *hithpael* the sequence of vowels in the name are present throughout the entire paradigm (i.e., in the *qåtal*, [short-] *yiqtol*, *wayyiqtol*, impv., inf. constr., and ptc.).
- With the exception of the *hiphil*, all conjugations (including most *qal* active roots) exhibit a *shewa* in the penultimate syllable of the third feminine singular and third common plural *yiqtol* (e.g., *piel qåtal*: דְבְרָה).⁵⁴
- With the exception of the *hiphil*, all conjugations also exhibit a *shewa* in the penultimate syllable in the third feminine singular and third- and second-person masculine plural *yiqtol* (and related forms) (e.g., *piel yiqtol*: <u>יַד</u>ברו).⁵⁵
- 4. In all conjugations (including the *qal*), the last stem vowel of second- and first-person *qåṭal* forms is almost always /a/ (e.g., שָׁלַׁחְתִי ;[*qal*]; וְבַּרְתָ [*piel*]; הִקְרַבְתָ [*niphal*]; שָׁלַׁחְתִי ;[*niphal*]; שָׁלַׁחְתִי ;[*pual*]; וְהַתְחַזֹּקָתֶּם ;[*hophal*]).⁵⁶
- 5. If a conjugation attests an /a/-class vowel in the stem of the participle, it will always reflect */ā/ (e.g., נְלְחָם "one fighting" Exod 14:25). In the *niphal*, this can distinguish the masculine singular participle from the third masculine singular *qåṭal* (נְלָחָם vs. נִלְחַם vs.

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^{53.} An /a/-vowel in the name presumes a short /a/.

^{54.} These muttered vowels likely reflect secondary vowel reduction after the place of stress in verbs had shifted from the penultimate (e.g., **yiqtol*) to the ultimate syllable (**yiqtol*).

^{55.} The reduction is, again, likely due to a shifting place of the stress. For infinitive and participial forms (e.g., *piel* inf. const.: דְּבְרוֹ), this may reflect the tendency for historical */i/ to reduce in pretonic syllables where the vowel of the propretonic syllable cannot reduce.

^{56.} In the case of the *qal* and conjugations associated with passivity, the /a/ vowel reflects the original vowel and was likely present in the Second Temple era and earlier. In the case of the non-*qal* conjugations associated with an active voice, the /a/ is a result of a shift (from an earlier */ ϵ / [< */i/]) and may be of a relatively late date. See ch. 3 §3, "Development of Individual Vowels."

"he fought" 2 Kgs 13:12). This reflects the consistent presence of $*/\bar{a}/$ in the tonic syllable of nouns and adjectives, and contrasts with the short */a/ found in accented syllables in finite verbs.⁵⁷

5.5. Verbs in the Non-Qal Conjugations: Passive Qal

In Hebrew, most stems associated with an active voice have a passive counterpart. That is, the *piel* has the *pual* and the *hiphil* has the *hophal*. It is often assumed that the *niphal* is the passive of the *qal*, but this is not exactly true. The *niphal* often indicates a passive voice, but it also indicates a middle voice (i.e., a reciprocal and/or reflexive sense) and presumably this was closer to its earliest meaning. The *qal*, in fact, once had a passive version of itself, the biblical examples of which were later reinterpreted as instances of the *niphal*, *pual*, or *hophal*.⁵⁸ This passive *qal* stem, it should be pointed out, is entirely distinct from the verbal adjective that is referred to as the "*qal* passive participle" (e.g., "one guarded").

The passive *qal* conjugation, as it can be perceived today, had a *qåtal* form, a *yiqtol* form, and a participial form. The basic vowel sequence in the stem of the passive *qal* was **u-a*. It was distinguished from the *pual* (which had the same vowel sequence in its stem) by the fact that the passive *qal* did not exhibit doubling of the middle root consonant (as happens in the *pual*). The participle would have had the vowel sequence **u-ā* without a prefixed *mem*, while the *yiqtol* form would have had the form **yuqtal*, which would have made it virtually identical to the *hophal yiqtol*.⁵⁹

^{57.} Other more minor consistencies can also be found. In particular, verbs with an /a/ theme vowel in the *qal yiqtol* sometimes occur in other conjugations with an /a/ vowel in the contextual *qåtal* 3ms, where we might expect an /i/-class vowel. For example, אָבָד "he destroyed" (note *qal* אַבָד "he will perish"); אָבָד "he taught" (note *qal* אַבָד "he will learn"); יָלְמֵר "he sanctified" (note *qal signification also be found*. The will be holy"); יְלָמֵר "he will cause distress" (note *qal* "יָלָמָר "he is pressed"); "he treated with contempt" (note more minor solution (note *gal* "interaction"). See Journe SS 22c and 82d.

^{58.} For a recent summary of the passive *qal* stem, see Eric D. Reymond, "The Passive *Qal* in the Hebrew of the Second Temple Period, Especially as Found in the Wisdom of Ben Sira," in *Sibyls, Scriptures, and Scrolls: John Collins at Seventy*, ed. Joel Baden, Hindy Najman, and Eibert Tigchelaar, JSJSup 175 (Leiden: Brill, 2016), 2:1110–27.

^{59.} Though, the *hophal yiqtol* would have been expressed with a *he* at some earlier point, i.e., **yuhuqtal*. Cf. the *he* found in the *hiphil yiqtol* of some forms: אֲהוֹלֶנוּ "I will thank him" (Ps 28:7).

In any case, almost all the forms have been reanalyzed as true *niphal*, *pual*, or *hophal* forms in the Tiberian vocalization and thus, regardless of their etymology, their passive sense is usually clear.

Essentially, the passive *qal* is identified by looking for forms that appear to be *pual* or *hophal* but that are not attested in the respective active conjugations (i.e., *piel* or *hiphil*).

- לְקָה (< *luqaḥa) "he was taken" (Gen 3:23)
- יָקָת (< *yuqqaḥu) "it will be taken" (Gen 18:4)
- אָכָלוֹ (< *'ukalū) "they are consumed" (Nah 1:10)
- דָאָכָלו (< *tu'kalūna) "you will be consumed" (Isa 1:20)

In addition, in their contexts, the meaning of the verbs corresponds to that of the *qal*, not to any of the senses typical of the *piel/pual* or *hiphil/hophal* (i.e., $\underline{\gamma}_{2}^{*} =$ "it was taken," not "it was caused to be taken").

When the passive *qal* was lost from Hebrew is difficult to say, but at least it was lost by late Second Temple times. Its existence in the first half of the first millennium BCE is implied by various correspondences between 1-2 Samuel and 1-2 Chronicles. In the former, often one finds a passive *qal* form and in the latter a *niphal* (or something similar).

ילָדו "they were born" (2 Sam 3:5)	versus	(1 Chr 3:4) נוֹלַד
ילד "he was born" (2 Sam 21:20)	versus	(1 Chr 20:6) נוֹלַד
they were born" (2 Sam 21:22) ילָדוֹ	versus	נוּלְדוּ (1 Chr 20:8)

5.6. Verbs in the Non-Qal Conjugations: Piel

The *piel* (like the *pual* as well as the *hithpael*) is morphologically distinct in containing a historical doubling of the middle root consonant. For this reason, the *piel* is sometimes referred to as the D-stem or "Double" stem. (The *pual* is referred to as the Dp-stem or "Double passive" stem, and the *hithpael* as the tD-stem.) Nevertheless, it is not uncommon for the doubling of the second root consonant not to be represented in the orthography and/or not articulated in the ancient pronunciation. This occurs with guttural roots (e.g., הַכַחֲשׁוּן "you will renounce" Josh 24:27) and with III*vav/yod* roots, where one commonly finds the elision of the final syllable (e.g., ווָעָל not sof gemination also occurs in cases where the historical */i/ vowel of the second syllable has elided (e.g., **yubaqqišūna* > item)

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"let them seek" 1 Sam 16:16).⁶⁰ For these reasons, it is better not to rely on the doubling of the middle root consonant to identify this conjugation. Far more consistent are the vowel sequences associated with the *piel*.

The vowel sequence reflected in the third masculine singular *piel qåțal* is typically **i-e*; the short /*i*/ of the stem derives from /*a*/ (i.e., בְּקַשׁ < **biqqeš* < **baqqiša* "he sought"), making it analogous in its origin to nouns like עַוָּר (<*'*iwwēr* < *'*awwiru*) "blind," described above.⁶¹ The stem vowels of the *yiqtol* and other forms (i.e., **a-e*) more clearly correspond to this earlier vowel sequence.

Although the third masculine singular *qåţal* form is typically characterized as exhibiting the sequence of vowel symbols *hireq-tsere* in THT, the extremely frequent verbs דָבֶר "he spoke" and בָּבֶר "he atoned for," are realized instead with the sequence *hireq-segol* (= *i*- ε). This seems to reflect the fact that the verbs were so familiar that they were produced with a rushed pronunciation such that the verb was articulated without a clear stressed syllable, as though it were in construct with the following word (e.g., דָבֶר־לֶבֶר "he spoke to you").⁶² In other verbs, the pausal forms exhibit a *tsere* in THT, but a *patakh* in contextual forms, as with בָּבָר' (pause) אָבַר) (context) "he destroyed" and בַרַדָּר

A guttural as a third root consonant often results in the sequence *i-a* in context (e.g., בָּתַח "פָּתַח" fhe opened" Job 30:11), though in pause one finds the expected /i/-class vowel (i.e., בַּתַח" fhe opened" Job 12:18). With IIIaleph roots, however, the vowel usually reflects */ē/, as in מָּלֵא "fhe filled" (Exod 35:35), in this case long due to compensatory lengthening (**malli*'a > **milli*' > **millē*). In the verb בֵּרַדְּ (pause) /בָּרַדְ (context) "he blessed," the resh cannot double and so the preceding */i/ lengthens and shifts to */ē/.⁶³

The *piel yiqtol* is characterized by the vowel sequence **a-a-e* (e.g., יַדָּבֶר), as are the short-*yiqtol* and *wayyiqtol*. The vowels of the stem are

^{60.} The loss of gemination occurs with the "Shy queens swim alone" consonants, as described in ch. 3 §15, "Loss of Gemination and *Shewa*."

^{61.} The last vowel is represented by *epsilon* in the Secunda (e.g., סטא.ססבג [cf. נְקָאַץ] "and he will break" Ps 46:10) (see Brønno, *Studien*, 64). Alternatively, it is conceivable that the *piel qåţal* originated as **qattala*, as in Arabic.

^{62.} Such verb forms only rarely attest a *maqqef* and regularly bear cantillation marks. But, note that the pausal forms attests a *tsere:* יְדַבֶּר־בִּי. Note similar forms יְדַבֶּר־בִּי "he will speak to me" Hab 2:1; הַוָּלֵר לוֹ (was born to him" Gen 21:5).

^{63.} Note the long vowel, e.g., in the Secunda's ηρφου vs. הֵרְפוּ "they reproach" Ps 89:52 (Brønno, Studien, 64).

also the same as those of the imperative (דַבָּר). Although the vowels of the infinitive construct (קַבָּר), infinitive absolute (קַבָּר), and participle (מְדַבָּר) appear the same as those of the imperative in THT, the infinitives and participle presumably exhibited /ē/ as a final vowel, not /e/.⁶⁴

For the *piel*, the vowel of any prefix element is always *shewa*. The wordinitial vowel sequence **a-a* is quite consistent and typifies (and thus helps one to identify) the *yiqtol* and *wayyiqtol* since the second vowel of the stem (*/i/) will often be absent, as mentioned above (e.g., וַיָּצָו "he commanded" passim [גלה]; and יוִגל he uncovered" Isa 22:8 [גלה]).

Object suffixes on the *piel* usually do not dramatically affect the vowels of the stem, as in דְבָרוֹ "he spoke it" (Deut 18:22) and יָשָׁלְחֵם "he will send them" (Exod 6:1).

5.7. Verbs in the Non-Qal Conjugations: Hiphil

The *hiphil* conjugation is formally unique among the other conjugations for several different reasons and, thus, sometimes it exhibits exceptions to some general principles. The *hiphil qåţal* is characterized by the vowel sequence **i*-*i* (e.g., הָשָׁמִיר).⁶⁵ In contrast to all the other conjugations, the theme vowel is long, not short. For this reason, in the third feminine singular and third common plural, there is no reduction of the vowel (הְשָׁמִירָה) is 3fs; הְשָׁמִירָה is 3cp). Furthermore, unlike in the other conjugations, the stress or tone remains over this second syllable. Nevertheless, in the other parts of the *hiphil qåţal* paradigm, the historical */i/ vowel of the second syllable shifts to /a/ in THT (similar to the shift from historical */i/ to /a/ in the *piel* conjugation): for example, **higgidtā* > **higgedtā* > **higgedtā* > "you told." Application of object suffixes does not affect any of the vowels of the stem (e.g., הָשָׁמִירָה) "you assigned him" 1 Sam 29:4).

Although the conjugation is easily recognizable in the *qåṭal* due to the initial *he*, this component of the conjugation is not normally present in the *yiqtol* and related forms. There was once a *he* prefix in the *yiqtol*, presumably, but this dropped off in most cases. It is only rarely attested in the MT (e.g., הוֹשִׁיע "he will deliver" 1 Sam 17:47, Ps 116:6).⁶⁶

^{64.} This is based on the tendencies observed above in ch. 3 for finite forms in the Secunda to exhibit /e/ and verbal adjectives and participles to exhibit $/\bar{e}/$.

^{65.} In some cases in the *hiphil* the earlier */i/ is not marked with a *mater yod*.
66. Note also הוֹדָה Neh 11:17 and יְהוֹדָה Isa 52:5. See Joüon \$54b.

The other forms of the *hiphil* all attest an /i/-class vowel (*/ī/, */e/, or */ē/) in the verbal stem, and /a/ in the prefix (e.g., יַשָּׁמִיר and יַיַשָּׁמִיר), including the imperative, infinitive construct, infinitive absolute, and the participle. The short /a/ vowel of the prefix in the *hiphil yiqtol* may be contrasted with the /i/ found in the prefix of the *qåţal* form (**hišmīr* vs. **yašmīr*). It is likely that the original sequence of vowels in the *hiphil* was actually **a-i*, even in the *qåţal* (cf. Aramaic *haphel*: הַנְּפֵּק "he took out" Dan 5:2).⁶⁷

As in the *hiphil qåṭal*, the *hiphil yiqṭol* paradigm attests no reduction where one sees it in other conjugations, that is, in forms with a final vowel יהַשָּׁמִירִי,* in 2fs, יהַשָּׁמִירוּ זיי,* in 3mp, יהַשָּׁמִירוּ tone or stress remains on the penultimate syllable (like the *hiphil qåṭal* 3fs, 3cp). With object suffixes, again, there is no change in the stem vowels (e.g., יֶׁמָמִירָוּ, "he will make me stand" Ps 18:34).

The *hiphil* short-*yiqtol* and *wayyiqtol* forms are consistently distinct from the regular *yiqtol* forms, even in the strong root. The short-*yiqtol* and *wayyiqtol* forms attest an */e/ where the regular *yiqtol* has /i/. In the wayyiqtol we find ישבית "he put an end to" versus yiqtol ישבית "he will put an end to."68 This follows the pattern, as mentioned above, wherein the short-*yiqtol* and *wayyiqtol* forms are usually graphically shorter (if not also phonetically shorter) than regular *yiqtol* forms. But, this */e/ (and, by extension, the shorter form) is evidenced only where the verb has no suffixed element (i.e., no suffixed morphological component or object suffix): הַשָּׁחֵת "do [not] destroy" (Deut 15:3); וִיבְדֵל "he separated" (Gen 1:4). Where any type of suffix appears on the verb, the stem vowel of the verb is */ī/ (as in the regular yiqtol): השׁחיתהו "do [not] destroy him" (Isa 65:8); ויבדילו "they separated" (Neh 13:3).⁶⁹ In these cases, often the */i/ will not be represented by a yod mater (e.g., וישלבו "they threw" Gen 37:24). In addition, note that the first common singular wayyiqtol forms usually do not attest the */e/ theme vowel, but rather the */i/ associated with the regular *yiqtol*, sometimes without a *mater*: ואציל "I rescued"

^{67.} The shift from */a/ to /i/ is akin to the vowel shift found in the first syllable of the *piel* perfect and of most **qattil* nouns, as mentioned above.

^{68.} The theme vowel would presumably be represented by *epsilon* in the Secunda (cf. the impv. form בּבָאָ "take hold of" Ps 35:2, corresponding to הַחַוֹּק (see Brønno, *Studien*, 100).

^{69.} The respective verbal forms are still parsed or identified as short-*yiqtol* and *wayyiqtol*, despite their graphic similarity to the regular *yiqtol*.

(1 Sam 10:18) and וָאַצָל (Judg 6:9). If the third root consonant is a guttural, the theme vowel of the short-*yiqtol* and *wayyiqtol* is /a/ (e.g., וַיַּצְמַת "he made sprout" Gen 2:9), but the other forms are identical to the strong root.

Unlike in the other conjugations where the imperative and the infinitive construct are identical in graphic form (differing only in the length of the final stem vowel), in the hiphil the imperative and infinitive construct are actually distinct graphically and phonetically, at least when the imperative lacks a suffix or word-final morpheme. Both forms have an initial he followed by /a/; this /a/ is identical to the vowel found after the prefix in the *yiqtol*. For the theme vowel, the imperative reflects an */e/ in its stem: הרכב "mount!" (2 Kgs 13:16). The vowel sequence of the imperative, therefore, matches that of the short-viqtol and wayviqtol (e.g., וירכב "he made [him] mount" Gen 41:43); since the short-vigtol is like the imperative in indicating volition, it makes sense that the short-yiqtol and the imperative have a similar articulation. When it takes any type of suffix or word-final morpheme, however, the imperative attests */ī/ in its stem (sometimes without yod mater: הַגִּיְדָה "tell!" [hiphil נגד + paragogic he] vs. הגד "tell!"). The infinitive construct, by contrast, always attests an */ī/: "to destroy" (2 Sam 14:16). The hiphil masculine singular imperative is, however, graphically identical to the infinitive absolute (again differing in pre-Masoretic Hebrew only in the length of the stem vowel). This formal similarity also overlaps with a semantic similarity since the infinitive absolute sometimes functions as an imperative.

The similarities between the different verbal forms of the *hiphil* can sometimes lead to confusion and students should notice the following distinctions. First, the key feature that helps to distinguish the *qåtal* from the infinitives and imperative is the vowel that follows the initial *he*. Typically, if it is an /i/-class vowel, then the form is *qåtal*, but if it is an /a/-class vowel, then the form is either an infinitive or imperative.

- הְשָׁמִיעֲדָ "he made you hear" (Deut 4:36) versus הַשְׁמִיעֲד "cause us to hear!" (Isa 41:22)
- הַשְׁמִידוֹ "he destroyed it" (Deut 4:3) vs. הַשְׁמִידוֹ "to destroy him" (Deut 9:20) (inf.)
- הַשִּׁיב "he brought back" (Gen 14:16) vs. הָשָׁיב "to bring back" (1 Kgs 12:21) (inf.)

הָשָׁיבוֹ "he brought him back" (1 Kgs 13:20) vs. הֲשִׁיבוֹ "to bring him back" (2 Sam 12:23) (inf.) and הֲשִׁיבֵהוּ "bring him back!" (1 Kgs 22:26).⁷⁰

Ambiguity is found primarily in I-*vav* roots, where the initial *he* is always followed by an */ō/ vowel (e.g., הוֹרְדָׁהוּ "they brought him down" Gen 39:1 vs. הוֹרְדָׁהוּ "bring him down!" Gen 44:21 and cf. הוֹרְדָׁהוּ "my bringing down" Ezek 31:16).

Since the infinitive construct and imperative both share this initial ha- syllable, discriminating between them when they bear a suffix can sometimes be difficult. Usually, the type of suffix and especially the linking vowel between stem and suffix will reveal the correct identity of the form. If the vowel that links the verb to the suffix is an /i/-class vowel, then the form is likely an imperative. If the vowel is an /a/-class vowel, then the form is likely an infinitive construct. Compare הקריבהו "offer it!" (Mal 1:8) with הַקָרִיבוֹ (< *haqribahu) "his offering" (Lev 7:16). Nevertheless, note that the first-person suffixes on infinitives construct are sometimes identical to those of the *yiqtol* and imperative, especially when the suffix on the infinitive marks the object of the verb (e.g., הכעסני "to anger me" Jer 7:18; הְעָבְרֶנו "to let us pass through" Deut 2:30). Similarly, there is also ambiguity with the third feminine singular suffix (e.g., השׁחיתה "destroy it!" 2 Kgs 18:25; השחיתה "to destroy it" Isa 36:10). In these cases, only context can guide interpretation. Remember that a verb form preceded by a preposition will be either a participle or an infinitive construct. Finite forms of the verb (qåțal, yiqtol and impv.) are never preceded by a preposition.71

^{70.} Very rarely the scribes got confused. In Jer 52:3, one finds a form that must be an inf. cons., but which is pointed as though it were a *qåtal* הָשָׁלִיכוֹ "his throwing"; cf. הָשָׁלִיכוֹ "throw!" Gen 37:22.

^{71.} Finite forms are preceded by conjunctions. In Hebrew, as in English, there is some overlap between prepositions and conjunctions (e.g., $\forall y$ "until" can function as either a preposition or conjunction, just like the English equivalent). But, the prepositions that attach directly to the following word, \exists and \exists and \forall , never function as conjunctions and never attach to finite verbal forms.

INTERMEDIATE BIBLICAL HEBREW GRAMMAR

5.8. Verbs in the Non-Qal Conjugations: Niphal

The niphal gåtal is characterized by the pattern ni-a (e.g., נָשָׁמר), though the earlier form would have had /a/ in the prefix, as reflected in the historical form of I-vav roots, like *nawlada > nolad > נולד "he was born." The participle is like the *qåtal* but exhibits a long vowel (e.g., נָשָׁמר). The other forms, including the *yiqtol*, short-*yiqtol*, *wayyiqtol*, and imperative are characterized by the following sequence of vowels in the prefix and stem: $*i-\bar{a}-e_{i}$, as in השמר "she will be careful" (Judg 13:13).72 The infinitive construct is graphically the same in THT, differing only in pre-Masoretic Hebrew by the length of the final vowel: $*i-\bar{a}-\bar{e}$. The sequence of three full vowels under three consecutive graphic consonants is rather uncommon in BH and may be remembered for this reason alone. Such a sequence is possible because the first vowel always appears in a closed syllable (due to the assimilation of the *nun* of the conjugation) and because the following $*/\bar{a}/(<*/a)$ never reduces. What was **tinšamiru* shifted to **tiššāmer* and then to תשמר. The preservation of the $*/\bar{a}/(<*/a)$ is unusual, but serves to distinguish the niphal from the hithpael, which shares almost the same sequence of vowels; compare **i-a-e*, as in יְתָהַלֶּך "he will go around" (Prov 23:31).⁷³

In THT, the *niphal* masculine singular imperative and infinitive construct are identical in form. Again, the infinitive construct in pre-Masoretic Hebrew was distinguished by a final long vowel: **i*- \bar{a} - \bar{e} . In both the masculine singular imperative and infinitive construct, the first vowel of the sequence (/*i*/) is preserved through the addition of a word-initial *he*: הַשָּׁמַר. The distinct morphological components of the prefix are the /*i*/ vowel followed by an assimilated *nun* (*-*in*-).

At least for THT, it is often the case that the accent moves forward in the *wayyiqtol*, imperative, and infinitive construct such that the vowel reflected in the second syllable is often $\langle \epsilon \rangle$, not $\langle e \rangle$.

^{72.} The last vowel is represented by *epsilon* in the Secunda (e.g., θεσθερ [cf. [תּּסָתר] "you hide yourself" Ps 89:47) (see Brønno, *Studien*, 104–5; presumably a mistake for *θεσσαθερ).

^{73.} Since the *tav* of the *hithpael* will rarely assimilate into the first root consonant (e.g., אָבָאָוֹ, "they will be crushed" Job 5:4 [*hithpael* of רכא] and הַבָּשָּוֹ, "it will be covered" Prov 26:26 [*hithpael* of כסה]), the distinction in length between */ā/ and */a/ is important for distinguishing the two conjugations. The *tav* of the *hithpael* conjugation also assimilates with a following *tet* (אָמָאָא) "the will [not] defile himself" Lev 21:1), and rarely *nun* (אָנָאָא) it will be exalted" Num 24:7). See Joüon §53e.

- ויַלָּחֵם "he fought" (Josh 10:38)
- fight!" (Judg 9:38)
- הַלְּחֶם "to fight" (Num 22:11).

The *niphal* infinitive absolute is attested in a variety of forms (e.g., המול "to circumcise oneself" Gen 17:13; נְכְסוי "to long for" Gen 31:30; הַמְצָא "to be found" Exod 22:3) and is harder to predict for any given verb.

5.9. Verbs in the Non-Qal Conjugations: Pual and Hophal

These conjugations are the passive counterparts to the *piel* and *hiphil*, respectively. All verb forms (including the *qåtal* and the participle) are characterized by the sequence of vowels found in their respective names. Thus, the *pual* is characterized by the vowel sequence *u-a*. Like the *piel*, the vowel of any prefix element is always *shewa* (e.g., ישׁמָר).

The *hophal* is characterized by the vowel sequence **o-a* (e.g., הָשָׁמַר). A /u/-class prefix vowel is found in all forms, including in the infinitive construct where a *he* precedes the vowel (meaning that it is formally identical to the 3ms *qåtal*). Usually, the /u/-class vowel is realized as */o/, though in the case of I-*nun* roots the prefix vowel is /u/ (e.g., יָקָם "he will be avenged" Gen 4:24 [from ונקם]) and in the case of I-*vav/yod*, II-*vav/ yod*, and geminate roots it is */ū/ (e.g., הוֹשָׁב)]. This gives rise to a limited number of ambiguous forms, such as הוּנְרָד]). This gives rise to a limited number of ambiguous forms, such as the *hophal* of הַשָּׁב (Isa 44:26), which might otherwise be interpreted as the *hophal* of 74

5.10. Verbs in the Non-Qal Conjugations: Hithpael and Hishtaphel

The *hithpael* is also consistent across its different forms in its vowel sequence: **i-a-e* (or, **i-a-ē*).⁷⁵ In THT, the third masculine singular *qåṭal* is identical to the imperative and infinitive construct (i.e., יְהַתְהַלֵּד "he will walk around" Exod 21:19; הִתְהַלֵּד "walk around!" Gen 13:17; הַתְהַלֵּד "walking around" Zech 1:10), though in an earlier era the length of the

^{74.} The *qamets* in this form is unusual.

^{75.} As noted above in the discussion of the *niphal*, the */a/ in the stem is important in that it helps to distinguish the *hithpael* from the *niphal*, the latter which exhibits the sequence *i- \bar{a} -e.

final vowel would have distinguished the infinitive construct from these other forms. The *yiqtol* is characterized by its distinctive prefixes and suffixes, but the vowels of the stem are the same as those of the other finite verbal forms (e.g., יְהָהָלֶך "הָהָלָלָ") "he will go around" Prov 23:31).

Occasionally what is ordinarily */e/ appears as /a/ or /å/ in THT; usually, if this occurs, it can be attributed to pause (e.g., הְתַעָבָּר "he became enraged" Ps 78:62). In other cases, it seems that a particular root is expressed with /å/ (e.g., יָטָמָא "he will make himself unclean" Lev 21:4 [in context]).⁷⁶

With roots that begin with a sibilant, the *tav* of the prefix and the initial sibilant switch places (i.e., metathesize).⁷⁷ This metathesis in BH sometimes creates forms whose roots are difficult to recognize (e.g., יוָאֶשְׁתַּמֶר, "I kept myself" Ps 18:24 [שׁמר]). Nevertheless, the fact that there are more than three possible root consonants leads one to suspect that one of the letters is part of the verbal paradigm.

The *hithpael* is the remnant of a broader group of conjugations that were characterized by a prefixed *tav* and that were used to indicate middle and reflexive nuances. In an earlier stage of the language, there would have been prefix-*tav* conjugations corresponding to each major active conjugation (*qal, piel, hiphil*), as there are, for example, in Aramaic and Ugaritic.⁷⁸ The *hithpael* is the prefix-*tav* conjugation that corresponds to the *piel*; those that corresponded with the *qal* and *hiphil* have disappeared.⁷⁹ The link between the Hebrew *hithpael* and the *piel* is clear in several ways. First, note that the middle root consonant in the *hithpael* is doubled, if possible, and if not, the preceding /a/ is compensatorily lengthened to */ā/: main compared to */ā/: main compared to the *piel*." Second, the sequence of stem vowels throughout the *hithpael* is the same sequence

^{76.} Joüon (§ 53b–c) notes that the /a/ vowel may be due to Babylonian influence, since in the Babylonian tradition of Biblical Hebrew the **a-a* vowel sequence is the normal one in this conjugation. This Babylonian Biblical Hebrew vowel pattern may, itself, be derived from Aramaic where the conjugation corresponding to the *hithpael* has predominantly an /a/ vowel, which is, in turn, derived probably through analogy to the theme vowel of Aramaic passive stems like the *pual* and *huphal*.

^{77.} The same phenomenon is present in English with the switching of "s" and "k" in the common pronunciation of the word "asterisk" as if it were spelled *asteriks or *asterix.

^{78.} Note, e.g., Syriac's etqtel, etqattal, and ettaqtal conjugations.

^{79.} Note, however, that some have proposed that <u>ויְתְפָק</u>ד "it was enrolled" (Judg 21:9) and similar examples are the remnants of a *t*-prefix *qal* stem (see Joüon § 53g).

found in the stem of the *piel yiqtol*, imperative, infinitives, and participle: *a-e (or, $*a-\bar{e}$).

Although the prefix-tav conjugations corresponding to the *qal* and hiphil are not attested in BH, there is one relic of a prefix-tav conjugation that corresponds to an earlier causative conjugation. This is the socalled *hishtaphel* conjugation attested primarily (if not exclusively) in the root והָשָׁתַּחֵוּה ("to bow down"), for example, וְהָשָׁתַּחֵוּה "and he will bow down" (Ezek 46:2) and השתחוו "they bowed down" (Jer 8:2). The equivalent to the *hiphil* conjugation was, in an earlier phase of Semitic, marked not by an initial h-, but by an initial \dot{s} -.⁸⁰ In Akkadian and Ugaritic, this is the prefix component to the causative conjugation. The prefix-tav conjugation that corresponded to this initial *š*-conjugation is called the Št-conjugation. In Ugaritic, the same verb, *hwy* "to bow down," appears in this Št-conjugation (e.g., $t \dot{s} t \dot{h} w y = t \dot{s} t \dot{a} \dot{h} w i y \ddot{a}$ "[they] do homage"), with the same sense as found in BH.⁸¹ It is due to this correspondence that scholars recognized that the root of this word in BH must be חוה (not שׁתה, as listed in BDB), and that consequently the *šin* of the word was part of the conjugation, not the root. Since BH otherwise universally attests the shift from an earlier *š*-initial causative conjugation to a *he*-initial causative conjugation (i.e., the *hiphil*), it seems likely that this word is borrowed from another language (similar to Ugaritic), rather than an inheritance from an earlier stage of Hebrew.

5.11. Verbs in the Non-*Qal* Conjugations: *Polel, Pilpel, Poel, Polal, Pilpal, and Poal*

The rarer conjugations, including the *polel*, *pilpel*, and *poel* are also associated with the *piel*. In general, these conjugations function as the *piel* for middle weak and geminate roots.

- ער "he aroused" (עור] (in 2 Sam 23:18)
- יְכַלְבֵּל "he will provide" [כול] (Zech 11:16)
- ענגן "he did witchcraft" (ענגן (in 2 Kgs 21:6)

^{80.} This shift is part of a broader shift of /š/ to /h/. Compare, e.g., the Akkadian 3ms independent pronoun $\check{s}u$ with the cognate in BH: הוא. See Huehnergard, "Afro-Asiatic," 143.

^{81.} See Bordreuil and Pardee, Manual of Ugaritic, 164, 166.

The *polel* and *poel* are identical superficially, though the *polel* (as its name implies) involves the reduplication of the last root consonant and the *poel* involves only a different sequence of vowels applied to three root consonants. Thus, the *polel* is the term used for middle-weak roots (since the last root consonant is reduplicated) and the *poel* for geminate roots (which have three root consonants). As in the *hithpael*, the third masculine singular form of the *qåtal* (ערר) "he aroused" 2 Sam 23:18), the infinitive (ערר) "to arouse" Job 3:8), and the imperative (ערר) "to arouse" Job 3:8), and the imperative (ערר) in the underlying length of the final vowel (*/e/ vs. */ē/). In addition, these can all easily be mistaken for masculine singular *qal* participles. Of course, most other forms of the *qåtal* will not be confused with participles (ערר) "I will bring you back" [*polel waqåtal* of שור Betek 38:4). Like the *piel*, these paradigms exhibit a *shewa* as the prefix vowel for the *yiqtol* and participle, but no prefix at all for the imperative and infinitives.

The *pilpel* is used usually with II-*vav/yod* and geminate roots. As its name implies, it involves reduplication of the two primary consonants of a root. The sequence of vowels is again analogous to the *piel* (i.e., **i-a* appears in the second- and first-person forms of the *qåtal*, as in יַכָּלְבֵּלְתִּי I will provide" Gen 45:11, and **a-e* appears in the stem of the *yiqtol*, as in יַכָּלְבֵּל

The *polal*, *poal*, and *polpal* are the passive counterparts to these stems. Like other passive conjugations, these cojugations exhibit /a/ as a theme vowel (e.g., *polal*: בוֹנָנו "they were ready" Ezek 28:13 [pausal] and *poal*: "ה flutters away" Nah 3:17). The *hithpolel* (e.g., מְתְעוֹרֵר, "one who is excited" [מהה] Isa 64:6) and *hithpalpel* (e.g., יהְמַהְמְהוּ, "they waited" [מהה] Judg 19:8) are the counterparts to the *hithpael*.⁸²

5.12. Weak Roots: General Comments

Weak roots are characterized by vowel patterns that are distinct from those of the strong root. Generally, roots containing gutturals diverge least from the standard patterns. I-*nun* roots exhibit the assimilation of the *nun* in specific forms, but are otherwise similar to strong roots. The presence of a *vav* or *yod* as a historical root consonant, on the other hand, creates

^{82.} Other conjugations also occur, but more rarely (see GKC §55).

significant variations from the basic verbal paradigm. One should keep the following three points in mind regarding these roots.

- 1. Originally the two letters (*vav/yod*) were distinguished in every position. However, at some point before the language was committed to writing, historical *vavs* shifted to *yods* in most words and forms. This happened especially in I-*vav/yod* roots and III-*vav/yod* roots. In II-*vav/yod* roots, on the other hand, medial *vav* or *yod* was generally lost through contractions and/or assimilation.
- 2. The idiosyncratic features of these roots usually derive from the contraction of diphthongs or triphthongs at the beginning, in the middle, or at the end of the root.
 - *hawtibani > *hōšībanī > הוֹשִׁיבַׁנִי < "he caused me to dwell" (Ps 143:3)
 - **yaqwumu > *yaqūmu > *yāqūm > "yāqūm > "*fe will arise" (passim)
 - **banaya* > **banā* > **bānā* > בְּנָה "he built" (passim)

Vowels that are the result of contractions at the beginning or in the middle of a root are rather stable throughout a given verb's inflection (e.g., the medial /ū/ is present throughout the *qal yiqtol* in II-*vav* roots: יָלָוּמוּ "they will arise" passim). On the other hand, at the end of the root, the triphthongs contracted in different ways, as explained above (see §3.12, "Triphthongs and Diphthongs").

- *yagluwu > *yagluyu > *yiglē > yigle = יְגָלָה "he will reveal"
- *yagluwūna > *yagluyūna > *yagluyū > *yiglū > *yiglū > 'yiglū * 'ithey will reveal''
- 3. In all roots with a historical *vav* or *yod*, but especially in II- and III-*vav/yod* roots, the short-*yiqtol* and *wayyiqtol* forms are typically shorter than the regular *yiqtol*.

5.13. Weak Roots: Gutturals and I-Nun

Guttural root letters will sometimes result in unexpected vowels in the stem and prefix of verbs. For example, a guttural as a first root consonant, will sometimes result in /a/ beneath the prefix of the *qal yiqtol* and related forms, as with מַשָּׁמָד "he will stand."⁸³ In the third masculine plural (and

^{83.} In relation to I-khet verbs, the presence of a khatef vowel in THT is due to a

similar forms), two short vowels follow one another in THT (e.g., יַשַּמְדוֹ), the second of which is an epenthetic vowel (like the *khatef-patakh* in the form ישָמָד). Although the *hiphil* paradigm also exhibits /a/ in the prefix element, the *hiphil* will never attest a *shewa* between the second and third root consonants; instead it will reflect either */e/ or */ī/ (e.g., "שָׁמָד" "let him cause to stand" [short-yiqtol] and "יֵשָמִיד" he will ..." [yiqtol]).

In the *niphal yiqtol*, all gutturals as well as *resh* will trigger compensatory lengthening in the prefix vowel (e.g., יָרָאָה "it will be seen" Exod 13:7).

In the *qal*, a guttural as a second or third root consonant will result in the *yiqtol* and imperative (but not the inf. cons.) exhibiting an /a/ theme vowel: יְבְחַל "he will choose," בְחַל "choose!," but the infinitive construct "רָבְחַל "sending," in the *yiqtol* send!," but the infinitive construct "שָׁל "sending." In the *piel, pual*, and *hithpael*, a guttural (or *resh*) as a middle root consonant can result in compensatory lengthening (e.g., בָּבָרָ "he will blessed"; יְבָרַך "he will bless"; הָבָרָ "may she be blessed"). In these conjugations, a guttural as a second root consonant does not affect the vowel of the last stem syllable (e.g., יָבָרָך, "he will select corruptly"; contrast this with the *qal* where an /a/ vowel is always present, as in 'בָּבַחַר "he will choose"). However, a guttural as a third root consonant will result (as in the *qal*) with a final /a/ vowel in contextual forms: "שָׁלָם" "he will send away"; שִׁלָם "he will send away"; "interval as "consel" (inf. cons.]).⁸⁴

An *aleph* as a root consonant is somewhat different from the other gutturals. In some *aleph*-initial roots the *qal yiqtol* exhibits */ō/ after the initial consonant of the prefix. The phenomenon is quite commonly found in the expression אָמָר "the said." As in this example, the *aleph* has elided and receives no vowel. The verbs that often attest this */ō/ vowel are the following: אָבָל "to perish," אָבָה "to be willing," אָבָל "to seize," אָמָר "to eat," אַמר "to say," אָבָה "to bake." The verbs can be remembered by any mnemonic that links the verbs in a single sentence.⁸⁵

shift in sonority between the first two root consonants; generally, where the second consonant is more sonorous, the guttural receives a *khatef* vowel. See the short summary in Lutz Edzard, "Phonology, Optimality Theory: Biblical Hebrew," *EHLL* 3:134–38 and the fuller treatment in Silje Avestad and Lutz Edzard, *la-hšōh*, *but la-hăzōr? Sonority, Optimality, and the Hebrew* **n**"**b** *forms*, AKM 66 (Wiesbaden: Harrassowitz, 2009).

^{84.} In pause, one finds a *tsere* in THT: אָשׁלֵח "I will [not] send away" (Exod 5:2).

^{85.} E.g., "Did you say you're not willing to eat what I bake? I will seize you, and you will perish."

As elsewhere, when the *aleph* should double, it also precipitates compensatory lengthening in the preceding vowel (e.g., אָקָעָד < *yēʾāsəpū < *yiʾʾasipū "they will be gathered" Gen 29:8 and יְמָאֲנוּ (* yəmāʾǎnū < *yumaʾʾinū "they will refuse" Jer 25:28).

Similarly, like the other gutturals, the *aleph* as a second consonant precipitates an /a/ theme vowel in the stem of the *yiqtol* verb (e.g., יָשָׁאַל "he will request" Exod 22:13). When an *aleph* is a third root consonant, this /a/ vowel lengthens to */ā/ (e.g., יָמְצָא). This compensatory lengthening is due to the *aleph*'s quiescence at the end of a syllable (i.e., יְמִצָּא)
 * *yimṣa'* < **yimṣa'u*). When the *aleph* initiates a syllable, we do not see (typically) such compensation (e.g., יָמְצָא)

Occasionally III-*aleph* roots appear to be vocalized on analogy to IIIvav/yod roots (e.g., מְלֹאָת "who are sinning" 1 Sam 14:33; מָלֹאָת "to be fulfilled" Num 6:13). This is found with particular frequency in the *niphal*, where one finds נְמְצָאָתי "I was found" (Isa 65:1) instead of נְמָצָאָתי as one might have expected (cf. the III-vav/yod root: נְמְצָאָתי I revealed myself" 1 Sam 2:27). The *niphal* masculine plural participle consistently appears with a *shewa* where we would expect a *qamets*: הַנְמְצָאִים (2 Kgs 25:19), instead of הַנָמְצָאִים (which occurs just once at Ezra 8:25, in pause).⁸⁶ In other cases, as mentioned above, byforms exist in the lexicon between III-*aleph* and III-vav/yod roots, as with γ "to encounter, meet" and γ "to encounter, meet."

A *nun* that abuts another, following consonant will often assimilate into that following consonant. This occurs frequently with verbs, as in the *qal yiqtol* form of נגל, for example (געל, איז איז איז איז), for example (געל, איז איז), for example (געל, געל, איז), for example (געל, איז), for

^{86.} Does the form הְּנְקְצָאִים reflect a pronunciation like that of III-vav/yod participles (i.e., *hannimsim; cf. נְרָפִים "who are lazy" Exod 5:8) that was secondarily altered to *hannimsə'im? See Blau, Phonology and Morphology, 88. As noted above, in ch. 3 §5, "Lengthening of Pretonic */i/ and */a/ Vowels and the Place of Stress," Garr notes that such participles always precede phrases to which they are closely linked (Garr, "Pretonic Vowels in Hebrew," 135).

verb contains a *nun* as a first root consonant and a guttural as a second root consonant, the *nun* does not assimilate. Thus, we find in the *qal אַנָאַץ* "do [not] spurn" (Jer 14:21): יְנָתָג (Isa 20:4): יְנָתָד "we will [not] inherit" (Num 32:19): יְנָתָד "it will be pleasant" (Prov 2:10) (pausal). The same happens in the *hiphil*: יְנָתָד' "he will dispossess" (Deut 3:28).⁸⁷

Since the form of an imperative is usually directly related to the shortyiqtol (and/or the yiqtol) form of the verb, it is not surprising that those verbs that see assimilation of the *nun* in the (short-)yiqtol attest no *nun* in the imperative: יְהֵע מוֹם מֵיָ "givel"; also יָאֵל and יָאֵל "deliver!" Where the *nun* appears in the (short-)yiqtol, then the *nun* appears in the imperative: "iead" (2 Kgs 4:24).⁸⁸ The infinitives construct for the most common roots have a *segolate*-like (*qilt) base in the *qal*.

- הַת < *tint "to give" (+1cs הָת "my giving")</p>
- שָׁאָתי and שָׂאָתי < *śi³t "to lift" (+1cs שָׂאָתי)
- גָּשָׁתּוֹ < *gišt "to approach" (+ 3ms גָּשָׁתּוֹ)</p>

Most other verbs usually attest the *nun* in the infinitive construct, even where the *nun* usually assimilates in the *yiqtol* (e.g., לפל "he will fall" but נפל "to fall").

5.14. Weak Roots: I-Vav/Yod

Roots that are originally I-vav are more numerous than original I-yod roots. The I-vav roots are characterized by several unexpected features in the yiqtol and related forms. In the qal, the third masculine singular yiqtol presumes the prefix-/stem-vowel sequence $*\bar{e}$ -e (e.g., ישָׁב" "he will dwell"), or, with final guttural, $*\bar{e}$ -a (e.g., יבָע" "he will know"). Neither vowel sequence is shared by other yiqtol forms. At least superficially, the initial $*\bar{e}$ vowel would seem to be due to the contraction of an earlier diphthong, $*yaytibu > *y\bar{e}seb (> yod (*yawtibu > *yaytibu)$. However, we might have expected some memory of the first vav root consonant since we find evidence of this consonant throughout the non-qal conjugations that attest a prefix (through a mater vav or consonantal vav). Thus, in the niphal one

^{87.} One exception to the rule is in the *niphal qåṭal* of גרחם, where the *nun* root consonant does assimilate (e.g., נָתָם "he was consoled" 2 Sam 13:29).

^{88.} There are several exceptions, e.g., נפלו "fall!"

finds in the *qåṭal* נוֹדַע < **nawdaʿa* "it is known" (Exod 2:14) and in the *yiqtol* and related forms יָנָדָעָ "it will be known" (Jer 28:9); הַנְּדְעָי "my being known" (Jer 31:19). In the *hiphil*, one finds הוֹדִיעַ < **hawdiʿa* "he made known" (Ps 98:2) and יוֹדִיעַ < **yawdiʿu* "he will make known" (Isa 38:19).⁸⁹ In the prefix to the *hophal*, one finds */ū/ instead of */ō/: הוֹרַד < **huwrada* "he was brought down" (Gen 39:1).

The *qal* short-*yiqtol* is often not distinguished from the regular *yiqtol* in THT,⁹⁰ but the *wayyiqtol* often has the accent on the prefix and a *segol* as a theme vowel (e.g., וַהָּבֶר "and she came down" Gen 24:18). The *qal* imperative exhibits the stem vowel of the *yiqtol* (שַׁבִי and 'שָׁב' 'dwell!''); the *qal* infinitive construct exhibits the **qilt* base, resulting in a form that looks like a segolate noun: שָׁבֵּר "to dwell" (+1cs suf. 'שָׁב').⁹¹

In the *qal*, a subclass of I-*vav/yod* roots experiences the assimilation of the *vav* as though it were a *nun*. In particular, this is common with roots whose second root consonant is *tsade*: אָצָעָר "I will pour" (Isa 44:3) from אָצָר אוס יצָר מוס יצָר אוס יצָר יצָר, also יצָר "i he formed" (Gen 2:19) from יצָר Other roots often included in this same subclass include יצָר *hiphil* "to set"; יצָר *hiphil* "to make a bed"; יצָר "to burn."⁹² In addition, other roots whose second root consonant is a sibilant attest similar assimilation: יַשָּר "they went straight" (1 Sam 6:12) [*piel* of יסר"]; and 'יָסָרָנָי "he will instruct me" (Isa 8:11) [*piel* of ⁹³

Verbs in the *yiqtol* with the prefix-/stem-vowel sequence $*\bar{e} \cdot e$ and $*\bar{e} \cdot a$ are originally I-*vav*. Original I-*yod* roots are comparatively rare. Joüon cites the following "primitive" I-*yod* roots: יבש "to be dry"; ינק "to suck"; ינק "to be good"; ינק "to wake up"; *'to hiphil* "to wail"; *'to hiphil* "to go to the right."⁹⁴ The prefix-/stem-vowel sequence in the *yiqtol* of these roots is usually *i*-*a*. Furthermore, the first etymological consonant usually appears graphically in the spelling of the *yiqtol*, though it is best interpreted as a *mater* in these cases: " $r \neq v \bar{v} \bar{b}a\bar{s} < v \bar{y} v \bar{b}a\bar{s}u$ "it will dry up" [*qal* $\mu \bar{v}$];

^{89.} That the original vowel of the prefix of the *hiphil qåṭal* was /a/ and not /i/ is reflected in some of the above forms which presuppose a contraction of an earlier diphthong (i.e., $*aw > *\bar{o}$): הוֹדִישָ.

^{90.} A rare example is הַאָר "may it come down" (2 Kgs 1:10).

^{91.} This same base is used for the inf. cons. in some common I-nun roots like גתן.

^{92.} Joüon (§77b) notes that יצת and יצת might be truly I-nun roots.

^{93.} Ibid. §77a2. Note also מָסָד "foundation" (1 Kgs 7:9).

^{94.} Joüon §76d.

and אָיָטָיב < *hēṭīb < *hayṭiba "he treated well" [hiphil יָטָב].⁹⁵ In addition to these verbs, etymological I-vav roots that are stative appear as though they are I-yod in Hebrew, including יִיָרָא "he will fear"; יִיעָד "he will fear"; ייָעָד "he will be precious;" יִישָׁן "he will sleep." Other verbs that appear to be (at least morphologically) stative I-vav roots with this same vowel pattern are translated as active verbs in English: יִירָשׁ "he will inherit" and אַיִעַצָּה

5.15. Weak Roots: II-Vav/Yod

II-*vav*/*yod* roots present some problems for the historical outline of Hebrew, since it seems at least possible that they ultimately derive not from a three-consonant root, but actually from a two-consonant root. In either case, a second root consonant is rarely in evidence. Instead there is almost always a full vowel (i.e., not a muttered vowel/*shewa*) that separates the first and last consonants.⁹⁶ For example, in the *qal qåțal*, only the first and third root consonants are evidenced (e.g., **D**[°] ("he arose").

Throughout the different conjugations, the third-person forms of the *qåţal* are regularly different from the second/first-person forms. In II-*vav/* yod roots in the *qal*, the third-person *qåţal* forms reflect */ā/ between the two stable root consonants (i.e., בָּמָרָם, "he arose"; הָמָרָם, "she arose"; הָמָרָם, "they arose"), while the other forms attest */a/ (e.g., הָמָרָם, "you arose"). Notice that all these forms in the *qal* are accented on their first syllable (the exception being the 2mp/2fp forms, e.g., הַמָּתָם, "The *qal* participle is identical to the third-person masculine and feminine singular *qåţal*, but the participle is accented on the last syllable (i.e., הַמָּתָם, vs. the 3fs *qåţal* hours, and the *qåţal* diverges from this pattern.

In the non-*qal* conjugations (especially the *hiphil* and *niphal*), the *qåţal* third-person forms are again distinct from the *qåţal* second and first-person forms.⁹⁷ In these conjugations, the second- and first-person forms often attest an $*/\bar{o}/(<*/\bar{a}/)$ connecting vowel, between the stem and

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^{95.} The distinction between /i/ and /iy/ would seem to be quite small (cf. Berg-strässer, *Hebräische Grammatik*, 1:102).

^{96.} Note, however, the rare exceptions, like מות in the *hophal: יוּמְתוּ* "they will be put to death" (Lev 20:12).

^{97.} When such verbs occur in the *piel*, the *vav/yod* is a regular root consonant (e.g., שוֹעָהִי "I cried out" Jon 2:3).

the suffixed pronominal element of the verb, but the third-person forms do not.

In the *hiphil qåţal*, the third-person forms follow the sequence $*\bar{e}\cdot\bar{i}$, as in בָּקִים "he raised" (Josh 5:7); הֵקִים "they erected" (Isa 23:13). The initial $*\bar{e}$ in the third-person forms reflects the basic qualities of the first syllable; since the syllable in these forms is open and pretonic, we expect a long vowel, not הָקִים *. Compare the second- and first-person forms: הָקִים "you will erect" (Deut 27:2) and הָקַמְמֹתִי I established" (Gen 9:17). Not only does an */ō/ vowel appear between the stem and suffixal morpheme, but the initial vowel is a muttered vowel, not * \bar{e} . (Note also the alternation between */ \bar{i} / and */ \bar{e} / in the stem.)

For the *niphal qåṭal*, the third-person forms exhibit the sequence *ā-o, without a connecting vowel (e.g., נָסוֹג turned back" Ps 44:19 and "they turned back" Isa 42:17), but the second- and first-person forms exhibit *a-ū followed by the connecting vowel */ō/ (e.g., נְסוֹג תִי I did [not] turn back" Isa 50:5).⁹⁸ Again, the initial vowel of the prefix has reduced to *shewa* and an /ō/ follows the stem.

In the *hophal qåṭal* of II-*vav/yod* roots one finds the sequence **ū-a*: יוֹמַת "it will be established" (Isa 16:5); יוֹמַת "he will be put to death" (Judg 6:31, passim). The participle, since it follows the morphology of nouns and adjectives, contains an **/ā/* in its stem: מוּבָן "one made ready" (Prov 21:31).

II-*vav*/*yod* roots are relatively easy to identify in their *yiqtol* and related forms since they often have a full vowel with *mater* between the first and third root consonants.

qal

יָקוּם	"he will arise"
יָבִין	"he will understand"

niphal

יִבוֹז	"he will be established" (Ps 102:29)
יִבֿנוּ	"they will be established" (Prov 4:26)
הכוז	"be ready!" (Amos 4:12).

^{98.} The short /o/ is assumed based on the *niphal yiqtol* of יכון in the Secunda: ובאָצָעסע (Ps 89:38) (see Brønno, *Studien*, 104).

hiphil

תָּקִים	"you will erect" (Exod 40:2)
תָּלָימוּ	"you will erect" (Lev 26:1)
ָהָק ִי ם	"the erecting of" (Num 9:15)

II-vav and II-yod roots can be distinguished from each other only in the *qal yiqtol* and related forms (short-*yiqtol*, and *wayyiqtol*, as well as in the imperative and infinitives). In the *qal yiqtol*, the II-yod roots will look identical to corresponding *hiphil* forms. Because r occurs in both the *qal* and *hiphil* with the sense "to understand," it is difficult to be sure of the parsing of given forms (e.g., $i \neq j$. "he understood" 2 Sam 12:19 [*qal* or *hiphil*?]).

In the *qal*, the stative pattern is exhibited especially by בוש "to be ashamed." In this case, the *qåtal* and *yiqtol* both retain a long /ō/ vowel in the stem: בשׁ "he was ashamed," בשׁ "they were ashamed," בשׁ "I was ashamed," and בשׁ "he will be ashamed," בשׁ "they will be ashamed." Notice that in the *yiqtol*, the prefix reflects **ē*. The other verbal forms of this root are predictable, each exhibiting the long /ō/ vowel, even the participle (בוֹשִׁים "those ashamed" Ezek 32:30).

In the *qal*, the three forms *yiqtol*, short-*yiqtol*, and *wayyiqtol* can be imagined in sequence progressing from longer to shorter forms: יָקום to 'ָקום to 'ָקום and 'יִקום to 'יָקום to 'יִקום and *wayyiqtol* are distinguished from each other basically just by the place of the accent in THT. The historical form of both would have been the same: **yaqwum* > **yaqum* > **yāqom* and **yabyin* > **yabin* > **yāben*. In the *hiphil*, the three forms are similarly distributed and resemble *qal* II-*yod* roots: יָקום versus 'ָקום the imperative of the *qal* is related to that of the *yiqtol* (i.e., הָקֵם (i.e., 'ִקום the *hiphil*, the vowels of the imperative (e.g., 'קום the *hiphil*, "יָקום") match those of the short-*yiqtol*.

As noted above in relation to the strong root in the *hiphil*, the form of the short-*yiqtol* is identical to that of the regular *yiqtol* in the second feminine singular, and third and second masculine plural, as well as when the short-*yiqtol* occurs with object suffixes. Similarly, with the *wayyiqtol* and the imperative. Thus, one finds the *wayyiqtol* with a long middle vowel (sometimes written without a *mater*) in the third masculine plural *qal* (instead of וַיָּלֵמוּ (instead of וַיָּלֵמוּ (instead of second instant), instead of אָרָלֶמוּ (instead of second).

Although most *hiphil* participles typically exhibit the vowel sequence found in the *yiqtol* (i.e., **a-ī*, as in מָשָׁמִיַע), with the II-*vav/yod* roots, the

vowel sequence is that of the *qåṭal* (e.g., הֵבִין "he understood" and מֵבִין "one who understands"). As elsewhere, the vowel of the prefix is a *shewa* in the propretonic syllable: מִבִינִים "those who understand."

Another peculiarity of II-*vav/yod* roots, found in all the different conjugations, is the ending of many third- and second-person feminine plural *yiqtol* (and *wayyiqtol*) forms. Often, but not always, these forms will attest an ending that is more common with etymological III-*vav/yod* roots (*-ɛ̄nā > -ɛnå = -;ִיָנָה -). Thus, one finds in the same verse (e.g., Ezek 16:55) a form without this ending and a form with this ending: אָלָה "they will return" and אָלָה "you will return." Similarly, note will "they will come" (Isa 47:9) and אָלָה "they will come" (Ps 45:16).

Although II-vav/yod roots sometimes appear in the *piel* (e.g., שָׁלַּשְׁתִּי "I cried out" Hab 1:2), more often these roots occur in the *polel* (in an active sense: וַמָּרוֹמֵם "you lifted up" Ps 107:25) and *polal* conjugations (in a passive sense: תְרוֹמֵתְנָה "they were exalted" Ps 75:11). Similarly, the *hithpolel* (in a reflexive sense: יְתְרוֹמֵם "me will exalt himself" Dan 11:36) occurs more commonly than the *hithpael*. These conjugations are extremely regular and the vowels often change very little in their inflection.

5.16. Weak Roots: III-Vav/Yod

Etymological III-*vav*/*yod* roots are regular at their beginning and exhibit all the characteristic prefix vowels of the various verb forms and conjugations associated with the strong root. It is primarily in relation to their endings that these roots look unusual. The endings are the result of contractions involving diphthongs and triphthongs. In general, there is consistency among the endings; each particular verbal form ends in the same way across all the different conjugations. For example, all third masculine singular *qåtal* verbs end in the same way, even though they derive from slightly different triphthongs.

- *-aya > *-ā (e.g., *banaya > *banā > *bānā > *bānā
 "he built")
- *-iya > *-ā (e.g., *galliya > *gillā > גָּלָה "he revealed")

The endings on third masculine singular *yiqtol* forms are also consistent.

- *-*iyu* > - ε (e.g., **yabniyu* > *yibn* $\overline{\varepsilon}$ > *yibn* ε = '<u>י</u>בנה "he built")
- *-ayu > -ɛ (e.g., *yuputtayu > *yuputtē > *yəputte > "he will be persuaded")

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*-uyu > -ɛ (e.g., *yagluyu > yiglɛ̄ > yiglɛ̄ = יִגְלָה "he will reveal")

When a long vowel comes last in a triphthong, the long vowel is preserved and the preceding sounds are lost.

- *- $ay\bar{u} > *-\bar{u}$ (e.g., * $banay\bar{u} > *b\bar{a}n\bar{u} >$ "they built")
- *-iyū > *-ū (e.g., *yabniyūna > *yabniyū > *yibnū > ייָבְנוּ (they will build")
- *-iyī > *-ī (e.g., *tabniyīna > *tabniyī > *tibnī > *tibnī > "you will build")

The consistency with which these contractions take place at the ends of words means that memorizing the endings in one conjugation (e.g., the *qal*) can help predict the endings in all the other conjugations.

This consistency is also reflected where contractions have taken place within a word or form. For example, second- and first-person qatal forms show the expected contractions of */iy/ to */ \bar{i} / and */ay/ to */ \bar{e} /.

- *-iy > *-i (e.g., *galliytu > *gillītī > אָלִיתִי (I revealed")⁹⁹
- *-ay > *-ē (e.g., *naglaytu > *niglētī > נְגְלֵיתִי (I revealed myself")

Due perhaps to different bases or due to analogy, not infrequently there is some variation such that what should be */ī/ is instead */ē/ (e.g., גָּלִיתִי) and vice versa, what should be */ē/ is instead */ī/ (וּגָלִיתִי) and also *banaytu > *banītī > בָּנִיקי "I built").

Triphthongs also contract in a regular manner within verbs with object suffixes. In these cases, nothing remains of the third root consonant.

- **ra'ayam > *rā'ām > רָאָ*ם "he saw them" (Gen 32:3)
- *ra'ayūka > *rā'ūkā > דָאודָ "they saw you" (Ps 77:17)
- *yaʿniyuka > *yaʿnēka > *yaʿneka > *yaʿnəka > *yaʿnəka > "יַעַנְךָ" "he will answer you" (1 Sam 20:10)¹⁰⁰

In addition to reflecting various contractions, III-*vav/yod* roots also exhibit other peculiar characteristics. First, note that the final *yod* of the

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^{99.} If the *piel* base is, instead **qattal*, then the $/\bar{e}/$ would be expected and the $/\bar{1}/$ would not.

^{100.} Note the pausal form יֵרְבָּדְ "may he multiply you" Gen 28:3.

regular *yiqtol* is preserved in rare cases (e.g., יָשָׁלָיוֹ "they will be at ease" Job 12:6 [*qal* אתה]; and יָאָתָיוֹ "they will come" Job 16:22 [*qal* אתה]). This also happens with the paragogic *nun* (e.g., יְבְכִיוֹן "they will weep" Isa 33:7 [*qal* יָבָכָּיוֹן and "יָבָכָּיוֹן").

The third feminine singular *qåṭal* seems to have ended with a *tav* in the early part of the first millennium BCE (e.g., הית [= hayāt ? < *hayiyat] "it was" Siloam Tunnel Inscription, l. 3). Such forms are occasionally found in the MT, too (e.g., וְשָׁשָׁת and it will make" Lev 25:21; וְהָיְתָן [ketiv] "and it will be" 2 Kgs 9:37; אַרָּעָדָר "it will enjoy" Lev 26:34).¹⁰¹ But, by the latter part of the first millennium BCE, the third feminine singular contained two feminine morphemes: a *tav* and a final */ā/, /ā/, /ā/, /a/.

The third common plural *qal qåtal* is exemplified by גָלי "they revealed"; the only difference from the third common plural of a II-*vav/yod* root is the accent on the first syllable in the II-*vav/yod* form: אָמָלי "they arose." In other conjugations the ending on III-*vav/yod* roots is the same, but there is less confusion with other forms: נְגְלוֹ "they were revealed"; יֹהְגָלי exiled."

As with II-*vav/yod* roots, there is a distinction between *yiqtol* and short-*yiqtol* (= *wayyiqtol*) forms among III-*vav/yod* roots. The short*yiqtol*, as described above, began as the PS jussive/preterite and, in the singular, lacked a final vowel. In the case of III-*vav/yod* roots, this means that the preterite would have ended with a *vav* or *yod* (e.g., **yagluw* and **yabniy*). In these cases, the sequence of a vowel followed by word-final semivowel eventually was lost, leaving a single syllable consisting of the prefix followed by the first and second root consonants (**yagl* > **yigl* and **yabn* > **yibn*). In THT, such forms are often realized with a *hireq* in the prefix and an epenthetic vowel between first and second root consonants (e.g., a *segol*: '<code>ift</code>' "let him reveal" and '<code>ift</code>' "let him build"). The same form appears in the *wayyiqtol* (<code>ift</code>' and <code>ift</code>' "he built").¹⁰² These short-*yiqtol* forms contrast with the longer regular *yiqtol yiqtol*.

^{101.} Note also הֵלָאָת "it wearies" Ezek 24:12.

^{102.} The cases where no epenthetic vowel is written in THT are also cases where the first root consonant is of a greater sonority than the second and pronouncing them without an epenthetic vowel is comparatively easy (e.g., الأَثْنِيْنَا "he drank" Gen 9:21). See the short summary in Lutz Edzard, "Phonology, Optimality Theory: Biblical Hebrew," *EHLL* 3:134–38. In either case, these short-*yiqtol* and *wayyiqtol* forms of III-*vav/yod* roots are considered monosyllabic at the phonological level (see Khan, "Shewa," 3:544; Khan, "Syllable Structure," 3:666, 669).

reveal" and יְבְנָה "he will build." As explained above, the short-*yiqtol* and *wayyiqtol* with a suffixal morpheme or pronoun appear the same as the *yiqtol*. Thus, a form like יְגָלוֹ can be, on formal grounds, either a *yiqtol* or short-*yiqtol*. Historically, they would have been distinguished through a (paragogic) *nun* at the end of the *yiqtol* form.

Distinct short-*yiqtol* and *wayyiqtol* forms appear in all the conjugations. Since the endings are often lost, one must rely on the initial sequence of vowels to identify the conjugation.

qal

qal	וֹדֶב וֹהֵּרֶב	"let it be many" (Gen 1:22) "it was numerous" (Gen 43:34)
	<u>וֿעַל</u> ויַעַל	"let him go up" (Gen 44:33) "he went up" (Gen 13:1)
	יְהִי וַיְהִי	"let it be" (Gen 1:3) "it was" (passim)
piel	ן יְצַו וַיְצַו	"may he command" (Deut 28:8) "he commanded" (passim)
hip	hil شَرْدِد آشَرْد	"may you increase" (Ps 71:21) "he increased" (2 Sam 18:8)
	<u>וי</u> ּׁשְׁק	"he supplied drink" (Ps 78:15)
	יַֿעַל ויַעַל	"let him offer up" (2 Sam 24:22) "he offered up" (Gen 8:20)
	מָּרֵב <u>וֹיָּר</u> ֵב	"may you increase" (Ps 71:21) "he multiplied" (Lam 2:5)
hitl	hpael הִּתְחַר וַיִּתְכַּס	"do [not] be angry" (Ps 37:7) "he covered himself" (2 Kgs 19:1)

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niphal

ירָא "let it appear" (Lev 9:6) ווירָא "he appeared" (Gen 18:1)

Note, in particular, that the *qal* will usually reflect /i/ in the prefix (but also /e/, /a/, and */ə/), while the *hiphil* will usually reflect /a/ (rarely /ɛ/). In most of these cases the vowel sequence is similar to that of segolate nouns. The same even applies to the short-*yiqtol* and *wayyiqtol* of היה "to be" and "to live" (compare יָהִי "let it be" Gen 1:3 with "קרי "weeping").

Some verbs are particularly difficult to recognize. The combination of a *nun* as first root consonant and *vav/yod* as third consonant result in short-*yiqtol* and *wayyiqtol* forms that attest just one root consonant. For example, the *qal* of נטה appears as מו "do (not) stretch" (Prov 4:5) and מו "he stretched" (Gen 12:8); the *hiphil* appears as מו "do (not) stretch" (Ps 141:4) and מו (Ezra 9:9). The root מו מו שיר לי "fit will strike" (Hos 14:6) and מו לי "fit struck" (Exod 9:25). With suffixes, the *dagesh* is present, hinting at the missing *nun*: "כֵּם" "it will strike them" (Isa 49:10).

Those roots which are both I-*vav/yod* and III-*vav/yod* are also difficult to recognize in the short-*yiqtol* and *wayyiqtol* forms. In the *hiphil*, the initial */סֿ/ of the prefix is not always marked by a *mater* (e.g., יוֹד "he shot" 2 Kgs 13:17; ירוֹ "he shot them" Ps 64:8; ירוֹ "they were shooting" 2 Sam 11:20 [*hiphil*].

As with other verb types, the vowels of the *yiqtol* stem usually allow one to predict the vowels of the imperative and infinitive construct. For III-*vav/yod* roots, the imperative masculine singular is distinct from the *yiqtol* stem only in the length of the vowel. The *yiqtol* reflects */e/ and the imperative */ē/: **tigle* > الجَذِرْتَ versus **galē* > أَنَّى "reveal!"¹⁰³ However, in many cases, the vowels of the imperative masculine singular match the vowels of the short-*yiqtol* (and *wayyiqtol*).¹⁰⁴ Note, for example, the shortened forms of the imperative.

^{103.} The same distinction is also implied in the Secunda ובְּרָאָה) Ps 49:10 vs. מון הָרָאָה) Ps 30:11 (see Brønno, *Studien*, 25, 47). Note also in other conjugations: הַנָאָה "he will await" (Mal 5:6) vs. קוַה "wawit" (Ps 27:14); הַטָּה "you will extend" (Prov 2:2) vs. הַרָאָה "extend" (Ps 33:3); הַרָאָה "it will be seen" (Gen 22:14) vs. הַרָאָה 1 Kgs 18:1)

^{104.} In the *hiphil* impv. masc. sing. one also sees this in the strong root: e.g., הַרְכֵּב "mount!" (2 Kgs 13:16) and וַיָּרְכֵּב "he made [him] mount" (Gen 41:43).

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חַל	"appease!" (1 Kgs 13:6 [<i>piel</i> חלה])
ויִחַל	"he entreated" (2 Kgs 13:4)
צַו	"command!" (Lev 6:2 [<i>piel</i> צוה])
ויְצַו	"he commanded" (Gen 2:16)
הַֿעַל	"bring up!" (Exod 8:1 [<i>hiphil עלה</i>])
יַעַל	"let him bring up" (2 Sam 24:22)
תַד	"strike!" (Exod 8:12 [<i>hiphil</i> [נכה])
ז <u>ַ</u> ד	"let him strike" (Hos 14:5)
ئۆ دە	"leave (us) alone!" (1 Sam 11:13 [<i>hiphil</i> רפה])
ئۆرە	"do [not] let go" (Josh 10:6).

The infinitive construct, however, shows a clear distinction from the *yiqtol*. The *qal* infinitive construct of III-*vav/yod* roots reflects the sequence of vowels found with the strong root (e.g., **a-ō*; cf. שָׁמֹר), though with an extra final /t/: אָלוֹת, "exiling," the result of which is that the infinitives construct look at first glance like feminine plural nouns.¹⁰⁵ The same ending also appears in all the derived conjugations (e.g., **a-ō* (but with a *extra*). The infinitive absolute often reflects the sequence **a-ō* (but with a *he mater*), הַבָּלָה "reveal" (cf. הָשָׁמֹר), but the *hiphil* the sequence **a-ē*, הַבָּלָה "strike" and הַרָּבָה "many" (cf. הַשָּׁמֵר"). The participles in all conjugations end like other etymological III-*vav/yod* nouns.

5.17. Weak Roots: Geminate

Verbs from geminate roots are the most complex of the root types. In part, this is due to the fact that they reflect different patterns of assimilation. As in the strong root, the geminates reflect two basic paradigms, associated with active and stative verbs. Verbs with an active sense often exhibit a *qal qåtal* form that is analogous to the strong root in the third-person (e.g.,

^{105.} Recall that *qal* inf. cons. from weak roots often bear a feminine morphological feature, usually a final *tav* ($\ddot{\psi}$ "dwelling"), but also sometimes a final *-ā* (e.g., יָרָאָה").

יָסְבָבוּ "he went around" and אָבְבוּ "they went around"), but a form closer to II-*vav/yod* roots in the second- and first-person forms (e.g., יֻבֹּלוֹתִי "I went around"; cf. הֲכַלוֹתִי "I arose" [*qal* [קום] and הֵקֵמְתִי I established" [*hiphil* "]).¹⁰⁶ Notice the */ō/ (<*/ā/) linking vowel between stem and suffix.

The stative verbs in the *qal qåṭal* seem more consistent and most often do not exhibit forms based on the strong root. Instead, these verb forms look like adjectives from geminate roots (e.g., עָש "it [ms] is evil" vs. עָש "evil"; רָשָה "it [fs] is evil" vs. רָשָה "evil"; רַבָּה "it [fs] is many" vs. דָבָּה "many"). The form of the third common plural *qåṭal* exhibits the same /a/ vowel and gemination (e.g., דָע [< *rā^cū < *ra^cū] "they are evil" and יַרָּבָּה "they are many"). Second- and first-person forms are analogous to the active verbs, with gemination and the */ō/ (< */ā/) linking vowel (e.g., "cdint").

The *qal yiqtol* also exhibits separate patterns based on the active/ stative dichotomy, with the /u/ theme vowel associated with active verbs and /a/ with stative verbs. In addition, the *yiqtol* attests two alternative forms. (This means that there are essentially two patterns for the active *yiqtol* and two for the stative.) Most often, the geminate consonants in the *yiqtol* appear in Hebrew without a vowel separating them.

- **yasubbūna > *yāsobbū* (> יָלֹבוֹ) "they will go around" (Job 16:13)
- *yiḥammūna > *yēḥammū (> יֵיָחֹמוֹ) "they will be hot" (Hos 7:7)¹⁰⁷

In the singular, the doubling of the second and third root consonants is lost due to the lack of a final vowel (similar to how there is no gemination in singular nouns like עָם (<*ʿamm] "people"): *yasubbu > *yasobb > *yāsob (> עָסב) "he will go around" (1 Kgs 7:15) and *yiḥammu > *yiḥamm > *yēḥam up *yēḥam up *yiḥamm *yiḥammu = *yiḥamm > *yēḥam up *yēḥam up *yiḥamm * *yiḥamm * *yiḥamm

Somewhat less frequently in these verbs, the theme vowel separates the two geminate consonants and the first of these (i.e., the second root consonant) assimilates backwards into the first root consonant. The vowel

^{106.} There are numerous exceptions, where, e.g., the 3cp exhibits a geminated consonant: יעו (Joel 4:3); שׁחוֹ "they bowed down" (Hab 3:6).

^{107.} In pause, the stative pattern appears as יָלָלוֹ "they will be light" (1 Sam 2:30). Note also the form with suffixes: **yasubbanhū* > **yəsubbennū* (> יָסָבָּנוּ) "it will go around it" (Jer 52:21).

^{108.} Note also the form יֵרָע "he will do evil" (2 Sam 20:6).

of the prefix is expressed as /i/ in the closed, unaccented syllable. This is often referred to as an Aramaic-like inflection (since this is the characteristic inflection of geminate roots in Aramaic), but the resulting verbal forms appear in Hebrew like I-*nun* roots.

- *yasbubu > *yassub > *yissob (> יָסֹב) "he will go around" (2 Sam 14:24)
- *yiḥmamu > *yiḥḥam (> יִחַם) "it will be warm" (1 Kgs 1:1)¹⁰⁹
- *yadmumūna > *yaddumū > *yiddəmū (> יָדָמוּ) "they will be silent" (Ps 31:18)
- *(way)yitmamū > *(way)yittamū > *(way)yittamū (> ווַיָּהְבמוּ) "they were complete" (Deut 34:8)¹¹⁰

Notice that where a *dagesh* appears in these forms, it does not reflect the assimilation of a preceding *nun* but the backward assimilation of the second root consonant (identical to that of the last root consonant).

The student of Hebrew will perhaps not find it surprising that some forms in the MT evidence mixing of these two basic types, where one too many consonants has been doubled: אָוֹמָיָ "you will be silent" (Jer 48:2) and אָוֹי "they will be complete" (Jer 44:12). In these cases, it seems possible that some confusion with the *niphal* paradigm has taken place (cf. sile they went around" Ezek 1:12 [*niph*.

In THT, the *qal* short-*yiqtol* and *wayyiqtol* forms are sometimes accented on their prefix if the form lacks any suffixal morpheme or pronoun (e.g., וַלָּקָר "he went around" Judg 11:18; וַלָּקָר "he measured" Ezek 40:8; וַלָּקָר "it was distressing" Gen 32:8; יָרָר "it was distressing" Job 20:22; "he subdued" Isa 41:2). However, the short-*yiqtol* and *wayyiqtol* are often identical to the *yiqtol*, especially with stative verbs (e.g., "הָּרָר "she").

^{109.} Note also *yadmumu > *yaddum > *yiddom (> יָדם) "he will be silent" (Amos 5:13) and *yimlalu > *yimmal (יָמָל <) "it will wither" (Job 18:16).

^{110.} Note also the *wayyiqtol* form, יְקָקדוּ "they bowed down" (Exod 4:31) and the pausal form: **yimlalū* > **yimmalū* (אָמָלוֹ >) "they will wither" (Job 24:24). There are still other forms, more difficult to explain: יָמָלוֹ "you act gluttonously" (Jer 2:36) and "קַעָרַי" (you will be limited" (Isa 49:19); יָרָשוו "they will be evil" (Neh 2:3). Usually, the different manners of inflecting these roots do not imply different senses, though in סבר there does seem to be some consistency between form and meaning, with the Hebrew type of inflection being used in an active transitive sense and the Aramaic-like inflection being used in a reflexive sense (see Joüon §82h).

treated lightly" Gen 16:4) and those forms that have an Aramaic-like (or I-*nun*-like) form (e.g., ויָסָב "he turned away" Gen 42:24).

The imperative has the stem vowel of the *yiqtol* form and usually exhibits a doubling of the second and third consonants like that of the "true" Hebrew pattern of the *yiqtol* (e.g., למבו and לכ). The infinitive construct attests an */ō/ vowel (e.g., לס) even in stative verbs (e.g., ב).

The non-qal conjugations exhibit different reflexes with respect to geminate roots. Geminate roots are entirely regular in the *piel* (e.g., הַלָּלְהִי "I profaned" Isa 47:6). In the *hiphil qåṭal* third masculine singular, geminate roots exhibit no gemination (e.g., הֵהָל "he began"), though gemination does reemerge in the third feminine singular and third common plural forms, where one finds penultimate stress (e.g., הֵהָלָה "she began"). In the second- and first-person forms, the linking vowel */ō/ (< */ā/) is also attested (e.g., הֲסָבֹּת, "you turned around"), as with II-vav/yod roots (e.g., הֵהַלָּתׁת "I established"). Here again, the vowel of the prefix reduces.

The *hiphil yiqtol* again exhibits two basic patterns, one associated with Hebrew morphology, where the two geminate consonants are not separated and the other associated with Aramaic, where a vowel separates the two geminate consonants, the first one assimilating backward into the first root consonant.

- *yaḥillu > *yaḥell > *yāḥel (> יָיָחֵל) "he will begin" (Judg 13:5) (hiphil אלו)
- *taḥillūna > *taḥillū > *tāḥellū (> תְּהֵׁלוֹ) "you will begin" (Ezek
 9:6) (hiphil אלל)

versus

**tatmimu > *tattem* (< תַּהָם) "you will make blameless" (Job 22:3) (*hiphil* תמם)

The *wayyiqtol* forms are sometimes accented on the prefix in THT (e.g., וֹלָחָל "he began" Gen 9:20), though this does not happen with forms that attest the gemination pattern typical of Aramaic (e.g., וַלָּחָל "he made go around" Josh 6:11). The imperative (ms) and infinitive construct are identical in THT (e.g., הָסָב,), differing in Second Temple times just in the vowel of the last syllable (/e/ for the imperative and /ē/ for the infinitive construct). The participle exhibits the vowels associated with the *qåțal* (e.g., מָסַב, "one making go around" Jer 21:4), in a manner similar to that

of II-vav/yod roots in the hiphil (e.g., מִבִין "one who understands" [hiphil].¹¹¹

The *niphal* of geminate roots shows diverse vowel patterns, in part influenced by the vowels of other verb forms. Most commonly, the *qåtal* third-person form reflects the sequence of **ā-a*, as in נְסָב "it changes direction" (Josh 16:6) and יוָסָב "they will be turned over" (Jer 6:12).¹¹² However, note how the *niphal* of מסס only sometimes appears with the expected sequence of vowels (e.g., מסס only sometimes appears with the expected sequence of vowels (e.g., יוֹד שׁנָק "it melted" Exod 16:21 [in pause]); elsewhere, it also appears as though it were a *qal* stative verb from the root מסט, as with ינָמָס "it melts" (Ps 22:15). More dramatic (and confusing) are those cases where the geminate verb is inflected as though it were from another existing Hebrew root, as with יוֹב "they will be profaned" [הסלל] (Ezek 7:24) vs. the *piel i* הָלָל "they distributed" (Josh 19:51).¹¹³ In other cases, the *niphal* of geminate roots follows the vowel sequence of the II-*vav/yod* roots, as with הָלָל "they shook" (Isa 64:3); יוֹב "they will be ransacked" (Amos 3:11); יוֹב "they will be cut off" (Nah 1:12); and "it will be crushed" (Qoh 12:6).¹¹⁴

In the *niphal yiqtol* and related forms, the vowels of the prefix and stem are typically **i-a* (e.g., יָבָל "let it roll" Amos 5:24; יָסָבוּ "they turn around" Ezek 1:9).¹¹⁵ As is common with other roots, an initial guttural root consonant will trigger compensatory lengthening, such that the **/i/* becomes **/ē/*, as with יֵחָת "he will be in awe" (Isa 30:31) and יֵחָת "they will be in awe" (1 Sam 2:10). Rarely, the vowel of the stem will be /o/, following the pattern of II-*vav/yod* roots (e.g., הָבוֹז).

^{111.} Again, we presume /e/ for the final syllable of the $q\dot{a}tal$ and $|\bar{e}|$ for the participle.

^{112.} Second- and first-person forms are much less frequent, but usually attest an $*/\bar{o}/$ linking vowel, as in the other conjugations.

^{113.} Both roots presumably reflect /ḥ/. Note also נְחַת "he was in awe of" (Mal 2:5) [*niphal* vs. נְחַת "he bent" (in 2 Sam 22:35) [*piel* of ונחת].

^{114.} Here, there is sometimes some similarity with other roots. Note, e.g., נְּזְלוֹ "they dripped" (Judg 5:5) [qal of נול "[you] cut me" (Ps 71:6) (qal ptc. גוה). Although בוי "to despise" does not occur in the *niphal*, as a *qåtal* 3cp it would be גְּבָּרָשָׁ "they were despised"; similarly, רצה "to delight" occurs in the *niphal qåtal* only in the 3ms, but the 3cp would be גור אינר און.

^{115.} In יסָבו, the *dagesh* in the *samek* derives from the *nun* prefix of the *niphal* and the *dagesh* in the *bet* derives from the geminated consonants of the root. Contrast with the *qal* of described above, where the *dagesh* in the *bet* is perhaps just due to confusion with the *niphal* paradigm.

Like II-vav/yod roots, geminate roots sometimes appear in the polel (מְקֹשָׁשׁ "one gathering" Num 15:32) and hithpolel (in a reflexive sense: הָתְקוֹשְׁשׁוּ "gather yourself" Zeph 2:11). However, unlike the II-vav/yod roots, geminate roots frequently appear in the piel (especially with roots ending with lamedh, like הלל "to praise," הלל "to profane," and "לי "to pray") and the hithpael (יַרָּקַבָּלָ) "he prayed" Num 21:7). These conjugations are extremely regular and the vowels often change little in the inflection.

5.18. Aramaic and Aramaic-Like Forms

As was the case for nouns, certain verbal forms seem to derive from Aramaic or, at the least, appear like corresponding Aramaic forms. We have just mentioned the cases of geminate verbs that seem to exhibit patterns more commonly found with Aramaic verbs. In addition, there are a limited number of *qåtal* second feminine singular forms with final *yod* (e.g., the *ketiv* of *qåtal* second feminine singular forms with final *yod* (e.g., the *ketiv* of 'יָרָדְהָ' 'you will go down'' Ruth 3:3). These match what we would expect in Aramaic. Furthermore, various historical features of BH are shared with Aramaic. For example, the rare third feminine singular *qåtal* forms of III-*vav/yod* roots that end with final *tav* (e.g., j' and it will make'' Lev 25:21) are presumably typical of First Temple era Hebrew, but are also typical of Aramaic. Note also that the paragogic *nun*, which appears on second feminine singular, and third and second masculine plural *yiqtol* verbs in BH, is commonly found on nonjussive forms in Aramaic.

5.19. Chapter Summary

Historical Details

- The *qåtal* form of the verb derives from a verbal adjective to which suffixes were attached. This helps explain the similarity in form between stative *qåtal* verbs, participles, and adjectives (e.g., זָקוֹ "he is old" and "elder"; מָת "he is dead" and "dead one").
- The short-yiqtol and wayyiqtol derive from a preterite/jussive form (e.g., *yaqtul). In weak roots, the stem of short-yiqtol and wayyiqtol verbs are often shorter (graphically and phonetically) than the regular yiqtol (e.g., עַשָּׁה and יַׁעַשָּׁה).
- 3. The regular *yiqtol* is also derived from the preterite/jussive form **yaqtul* plus a final /u/ vowel (which marked the verb of a subordinate clause in PS): **yaqtulu*.

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4. The initial vowel of the *hiphil qåṭal* likely originated as /a/, as did that of the *niphal*. This is based, in part, on the resolved diphthongs in I-vav/yod roots (גוֹשִׁיעַ) הוֹשִׁיעַ [<*hawšiʿa]; הֵיטִיב [<*haytiba]; נוֹדַע [<*nawdaʿa]).</p>

Learning Tips

- 1. The verb forms with object suffixes tend to reflect vowel tendencies typical of the noun and adjective. The *qal qåțal* plus object suffix often exhibits the sequence of stem vowels **∂*-*ā* (*shewa-qamets*) in the third-person and **∂*-*a* (*shewa-patakh*) for secondand first-person forms.
- 2. The third masculine singular *qåṭal* plus object suffix uses an /a/class linking vowel between the verbal stem and the suffix, while the imperative (like the *yiqtol*) exhibits an /i/-class linking vowel.
- In all conjugations with an /a/-class vowel in the stem (i.e., the *niphal, pual, hophal*), the participle exhibits */ā/ (*qamets*) but */a/ (*patakh*) in the *qåțal*. This can be used to distinguish the *niphal qåțal* from the *niphal* participle.
- 4. The *yiqtol*, short-*yiqtol*, *wayyiqtol*, imperative, and infinitive construct (and sometimes inf. abs. and ptc.) usually share a similar if not identical vowel pattern, finite forms usually exhibiting a final short stem vowel and nonfinite forms a long vowel.
- 5. Vowel sequences are useful in distinguishing between different conjugations (more so than other features like the doubling of the middle consonant of the *piel* or the initial *he* of the *hiphil qåtal*).
 - 5.1. The third-person *qåtal* forms of both the *piel* and *hiphil* exhibit the sequence of two /i/-class vowels (*piel*: **i*-*e* [> *hireq-tsere*]; *hiphil*: **i*-*ī* [> *hireq-hireq*^{yod}]).
 - 5.2. Second- and first-person *qåṭal* forms (for strong roots) almost universally contain short /a/ as the last stem vowel.
 - 5.3. The vowel sequences characteristic of the *yiqtol*, short-*yiqtol*, *wayyiqtol*, imperative, and infinitive construct in the derived conjugations are the following.
 - 5.3.1. *piel*: **a*-*e* or **a*- \bar{e} (> *patakh*-*tsere*)
 - 5.3.2. *hiphil*: **a*-*ī* (> *patakh-hireq*^{yod}); the short-*yiqtol*, *wayyiqtol*, and imperative have instead **a*-*e* (> *patakh-tsere*), without suffixed morpheme or pronoun.
 - 5.3.3. *niphal*: *i- \bar{a} -e or *i- \bar{a} - \bar{e} (> *hireq-qamets-tsere*)

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- 6. The *pual* (**u-a*), *hophal* (**o-a*), *hithpael* (**i-a-e*[/ē]), *polel* (**o-e*[/ē]), *pilpel* (**i-e*[/ē]), and related conjugations exhibit the vowel sequence implied in their names in every verbal form (*qåțal*, *yiqțol*, ptc., etc.), except where pretonic vowels reduce.
- 7. Weak roots containing a *vav/yod* usually exhibit in THT a form of the short-*yiqtol* and *yiqtol* that is accented on the prefix and that has a short vowel in the stem.
- 8. Mnemonic Aids
 - 8.1. qal I-vav/yod
 - 8.1.1. *yiqtol*: "as one has come, so one will go (יַלָד) [from [הלך])" Qoh 5:15
 - 8.1.2. yiqtol: "the meek will inherit (ײִרְשׁוּ) the earth" Ps 37:11
 - 8.1.3. infinitive construct: "teach them to your children, speak them when you dwell (שָׁבְתָּך) in your house" Deut 6:7
 - 8.2. qal II-vav/yod
 - 8.2.1. *wəqåṭal*: "set (וְשַׂמְתֶּם) these, my words on your heart" Deut 11:18
 - 8.2.2. imperative (fs): "rise and shine (קומִי אוֹרִי)" Isa 60:1
 - 8.2.3. *wayyiqtol*: "Joab put (וַיָּשָׁם) the words into her mouth" 2 Sam 14:3
 - 8.3. III-vav/yod
 - 8.3.1. *qal wəqåṭal*: "the anger of the Lord will burn (וְחָרָה) against you" Deut 11:17
 - 8.3.2. qal short-yiqtol: "let there be light (יָהָי אוֹר)" Gen 1:3
 - 8.3.3. *qal* cohortative: "let us make (נַעַשָּה) humans in our image" Gen 1:26
 - 8.3.4. *qal yiqtol*: "the race does not go to the swift ... but time and chance occur (יָקָרָה) to all of them" Qoh 9:11
 - 8.3.5. piel qåtal: "I await (קוֹיתי) your salvation" Gen 49:18
 - 8.3.6. *piel* participle + suffix: "These words that I am commanding you (מְצַוְּך) today must be kept over your heart" Deut 6:6
 - 8.3.7. *hophal* and *pual* participles: "Surely our sicknesses he lifts and our pains, he carries them. We consider him stricken, struck (מָבָה) by God, and afflicted (מְבָה)" Isa 53:4.

6 Charts of Nouns and Verbs

It is sometimes difficult for a student to grasp the principles of the morphological system by being given just a few examples in the paragraphs of a grammar. The following charts, therefore, are provided in order for the student to see for him/herself the inflection of different common Biblical Hebrew nouns and verbs.¹ I spell and vocalize words as they occur in the MT, even if this means that a given form does not exactly match what we might expect. It will be immediately obvious that not all the forms are attested and those that are not are marked with an asterisk (*). The vocalization of these unattested forms is made possible first by analogy to other words from the same base with the same vowels and, if these are absent, by analogy to other words from the same base with different vowels. The words used to help pinpoint a particular vocalization are often, but not always, supplied in the footnotes. With certain suffixes I have neglected to offer reconstructions given the absence of adequate data. If a form is attested in its pausal form, I present it in its contextual form in the tables. In some cases, a word is chosen due to its convenience (e.g., because it has both a singular and plural form or because it is clearly related to another noun that is listed), even though it is not well attested with suffixes. The spelling is generally plene in the charts (except in the geminate verbs), though I do write forms defective if they are only attested in this way. The reconstructed historical forms of the nouns are not cited with the final short vowels marking case, but the reconstructed historical forms of verbs are cited with their final short vowels.

Because most elementary grammars include charts of the verbs according to their root type and conjugation, I have not included a com-

^{1.} Much of the following is informed by Huehnergard, "Biblical Hebrew Nominal Patterns"; Fox, *Semitic Noun Patterns*; and *HGhS*.

prehensive set of similar charts here. Instead, many of the verbal charts below juxtapose paradigms of different verbs in order to highlight commonalities and distinctions between them. Due to the predictable nature of verbal inflection, verbal forms that are unattested can be reconstructed with some confidence based on the expectations of the paradigm. Where there are uncertainties, I have indicated specific parallels in the footnotes. Especially in the case of geminate verbs I have listed specific passages where the verb forms are found. In cases of inadequate data, I have not reconstructed anything.

I have listed forms of the short-*yiqtol* and *wayyiqtol* together, separate from the *yiqtol*, if the the short-*yiqtol* and *wayyiqtol* have similar forms and are distinct from those of the regular *yiqtol*. Since the short-*yiqtol* and *wayyiqtol* forms of the second-person feminine singular, third-person masculine/feminine plural, and second-person masculine/feminine plural are identical to the regular *yiqtol*, they are never listed separately. If a given verb occurs in the short-*yiqtol* in a form distinct from the *wayyiqtol*, then the two forms are listed separately.

	* <i>qal</i> sg./pl. "blood"		* <i>qalat</i> sg./pl. "year"		* <i>qalt</i> sg./du./pl. "door"			
	*dam/	*damīm		t/*šanīm *šanāt	*dalt/	*dalatāt ³		
abs.	זָּם	דְּמִים	שָׁנָה	שָׁנִים	ָ וֹּלָת	דְּלְתַיִם	דְּלְתוֹת	
const.	דַּם	דְּמֵי	שְׁנַת	שְׁנוֹת / שְׁנֵי	*ۑؘٞڮؚٝؗؗؗؗؗؗؗۘۘ	דַּלְתֵי	דַּלְתוֹת	
+1cs	דְּמִי	*דְּמַי	*שְׁנְתִי	שְׁנוֹתַי	٭ <u>ڹ</u> ٙڂؙۭڹڒ	<u>ו</u> ּלָתַי	דַּלְתוֹתַי	
+2ms	ڹٙڟؚۮ	ָדָ <i>ָ</i> אָיד	*ۻ۪ڋٮؚ ڵ ڋ	ۻ ؚۮוؘؗؗڝ۫ٛڗ	* <u>ڹ</u> ڂؙۭڹؚۧڋ	^ڶ ڂڔ؆ؚ؞ڬ	* <u></u> דַלְתוֹתֶׁיד	
+2fs	^ئ ۆك	דְלַיִד	*ڟ۪ڋؚۘۘڝ٦	ۻ ؚנוֹתַיִדְ	*ײַלְתֵּד	*ڹ۪ڂ <u>ؚ</u> ڹۧڔ۬ڹ	*דַּלְתוֹתַֿיִדָּ	

Table 6.1. Biconsonantal Bases with Short Vowel, Part 1²

^{2.} The chart is supplemented by the following forms: שָׁדַי "my breasts"; אַמָתִי "my handmaiden"; אַמָתִי "your handmaiden"; קַשְׁתִי "their tongue"; קַשְׁתִי "bow of"; קַשְׁתִי "my bow"; קַשְׁתִי קיי "your bow"; קַשְׁתוּ "bis bow"; קַשְׁתִי קַשָּתוּ

^{3.} The word דָּלֶת is like other *qal words ending in a feminine tav morpheme. That is, when these words are pluralized, the feminine tav morpheme is treated as though it were part of the root. Note, e.g., וּקְשָׁתוֹת (Isa 13:18, passim); קַשְׁתֹחָיוֹ 5:28, and other forms passim). See HGhS, 610t for other examples.

+3ms	דָמוֹ	דְּמָיו	שְׁנָתוֹ	שְׁנוֹתָיו	*דַּלְתּוֹ	*דְּלָ תְיו	דַּלְתוֹתָיו
+3fs	דְּמָה	דָּמֶּיהָ	שְׁנ ְתָה	*שְׁנוֹתֶֿי ה ָ	* <u></u> ؾٙڂۭٛۺؚڗ	ּדְלָ <u></u> תֶֿיהָ	[*] ؾٙڂؙٕٛؗؗؗ۬ؗؗؗؗؗ؉ڹڽ۫ڹ
+1cp	*דְּמֵנוּ	*דְּמֵׁינוּ	*ۻ۪ڋؚؗؗڝ۫ۯۥ	שְׁנוֹתֵׁינוּ	* דַּלְהֵׁנוּ	*דְּלָ <u>ת</u> ָׁינוּ	*דַּלְתוֹתֵׁינוּ
+2mp	דּמְכֶם	*דְמֵיכֶם	⁺שְׁנַתְכֶם	יׂשְׁנוֹתֵיכֶם∗	*ؾٙڂۭۺؚڿڡ	*דַּלְתֵיכֶם	∗דַלְתוֹתֵיכֶם
+2fp	*ڹٙڟ۪ڎڵ	*דְמֵיכֶן	*ۻ۪ڐؚڔٙڿٳ	יׂשְׁנוֹתֵיכֶן∗	* <u>ؾ</u> ڂۭۺؚڿڒ	*דַלְ תֵיכֶ ן	*דַּלְתוֹתֵיכֶן
+3mp	וְּמָם	דְמֵיהֶם	*ۻ۪ٚڎؚڔٙڡ	שְׁנוֹתָם	*דַּלְתָּם	*דַּלְתֵיהֶם	דַּלְתוֹתֵיהֶם
+3fp	יְדָמָז*	*דְמֵיהֶן	*ۻ۪ڋڔٙڔ	יׁשְׁנוֹתָן∗	*דַלְתָּז	* <u>ד</u> ּלְתֵיהֶז	*דַּלְתוֹתֵיהֶז

More Examples (see also table 6.2)

- *qal: יָד "fish"; יָד "hand" (see below); שָׁה "sheep" (< *śay);4 שָׁד * "breast"
- *qalat: שָׁפָה handmaid" (pl. אֶמָהוֹת); and "נוף"
- *qalāt: אָחוֹת "sister"; and הַמוֹת "husband's mother-in-law"⁵
- *qalt: שַׁחַת "bow"; גַֿחַת "rest"; שַׁחַת "pit"⁶

Table 6.2. Biconsonantal Bases with Short Vowel, Part 2⁷

	* <i>qal</i> sg./pl. "one who arises"		* <i>qalat</i> sg./pl. "one who arises"		* <i>qal</i> sg./du./pl. "hand"		
	*qam/	*qamīm	*qamat/*qamāt		*уас	*yad /*yadaym/*yadāt	
abs.	יקם*	קָמִים	קָמָה	*קְמוֹת	יָד	יִדַיִם	יָדוֹת
const.	יקם*	*קְמֵי	*קְמַת	*קְמוֹת	יַד	יִדֵּי	יְדוֹת
+1cs	—	קָמַי	*קָמָתִי	*קְמוֹתַי	יָדי	יִדַי	יִדוֹתַי*
+2ms	_	קָמֶיד	*קָמְתָדָ	*קמוֹתֶׁיד	<u>ין ד</u>	נ ^ז ָרד זיָ	٭ڹؚؚؚؚڗڹڟ۪ ٚ ؠڬ

4. The forms of שָׁה "sheep" are: const. sg. שִׁה (Deut 14:4); + 3ms שָׁה (Deut 22:1) and שִׁי (in 1 Sam 14:34).

5. The fem. familial terms: אָחוֹת "sister" and הְמוֹת "husband's mother-in-law" have an etymological -āt ending, which, in these cases, does not indicate plurality.

^{6.} The last two examples derive from II-*vav/yod* roots; see Huehnergard, "Biblical Hebrew Nominal Patterns," 30.

^{7.} The chart is supplemented by the following forms: עָב "cloud of " (const.); שָׁבֵי "those returning of"; זְבַת "flowing with"; רְמָתֵך "your height"; עָלוֹת "those suckling"; רְמָתֵך

+2fs	—	*קְמַיִדְ	٭ڔۧڡؚٚؿڋ	*קְמוֹתַיִדְ	<u>יָד</u> רָ	<u>יִדַי</u>	٭ڹؚڂڹٮۧ <u>ؚڒ</u> ڹڐ
+3ms	_	קָמָיו	*קָמָתוֹ	*קְמוֹתָיו	יָדוֹ	יָדָיו	יְדוֹתָיו
+3fs	_	*קָמֶׁיהָ	*קָמָתָה	ּקמוֹתֶֿיהָ	יָדָה	יָדֻֿיהָ	יְדוֹתֶֿיהָ
+1cp	_	קָמֵׁינוּ	*ڟ۪ڟ۪۫ڗ	⁺קמוֹתֵׁינוּ	יָדַׁנוּ	יָדִֿינוּ	יִדוֹתֵׁינוּ*
+2mp	_	*קמיכָם	*קְמַתְכֶם	*קמוֹתֵיכָם	יֶדְכֶם	יְדֵיכֶם	*יְדוֹתֵיכֶם
+2fp	_	ָקמֵיכָז*	*קְמַתְכֶז	ּקמוׄתֵיכֶן	יֶדְכֶז	יְדֵיכֶז*	יִדוֹתֵיכֶז*
+3mp	_	קמיהם	*קָמָתָם	*קְמוֹתָם	יָדָם	יְדֵיהֶם	יְדוֹתָם
+3fp	—	קמיהז*	*קؚמ۪ڔٙڒ	*קؚמוֹתָן	יָדָז*	יְדֵיהֶן	יְדוֹתָן*

- *qal: אַבוא "cloud"; qal participles of II-vav/yod roots (like בוא "to enter"; גור "to sojourn"; גור "to flow"; סור "to turn back"; עול "to nurse"; שוב "to return")
- *qalat: רְמָה "height"

Table 6.3. Biconsonantal Bases with Short Vowel, Part 3⁸

	* <i>qil</i> sg./pl. * <i>qilat</i> sg./pl. "tree" (יעצה) "counsel" (יעצי) * ^c iś/* ^c iśīm * ^c iṯat/* ^c iṯāt		* <i>qilt</i> sg. "dwelling" (ישׁב') * <u>t</u> ibt		
abs.	עַץ	עֵצִים	עֵצָה	עֵצוֹת	ڛٚٛڿۘڔ
const.	עַץ	עַצי	אַצַת	_	ŵֶבֶת
+1cs	יטָצי*	אַמַצַי∗	אַצָּתִי	_	שָׁבְתִּי
+2ms	עַצְד	עַצָּיד	<u>א</u> ָצָתְד	_	<u></u> שָׁבְתְּדָ
+2fs	אַצַד*	עַצַּיִד	*ېۡێې۫ؗؿڋ	_	*שָׁבְתֵּד
+3ms	עֵצוֹ	עַצְיו	זְעַצְתוֹ	_	שִׁבְתּוֹ

^{8.} The chart is supplemented by the following forms: אָלִי "my God"; שָׁמְכֶם "my God"; רְעָי, רֵעָד, (see table 6.4). The form of certain words is ambiguous. Words like געיָד, (pausal בְעָי, בַעָד חיב בע from *riʿay, i.e., the *qiṭal base). Note the form "ruʿay, i.e., the the form "cuʿay" (Jer 29:23; Ps 28:3).

+3fs	עַצָּה	עַאָּיה	*ڵؚٙٙٞٙػؙڟ	—	שִׁבְתָּה
+1cp	*עֵצְׁנוּ	עַצַּינוּ	^ي مَّدُن	—	שִׁבְהֵׁנוּ
+2mp	עָּאָכֶם∗	<u>א</u> ְצֵיכֶם	אְנַצַּתְכָם	_	שִׁבְתְּכֶם
+2fp	עָצְכֶז*	<u>אַ</u> ציכָן	אַצַקָּגָז*	—	*שָׁבְתְּכֶן
+3mp	אַנאָם∗	<u>א</u> ְצֵיהֶם*	אַצָּתָם	—	שִׁבְתָּם
+3fp	*يې	<u>א</u> ְצֵיהֶן	*ڟؚٙػ۬ڟ	_	לָשָׁבְתָּן∗

More Examples (see also tables 6.4–6.5)

- *qil: גָר "god"; גַר "sojourner"; מַת "dead one"; גַר "lamp"
- *qilat: מָאָה (from יחם ('rage'') מָאָה "one hundred'') מֵאָה (from מַאָה "sssembly"; עַדָה (from עוד witness") פָּאָה "corner"
- *qilt: (qal inf. const. (נגע) "touching"; גָּשָׁת (qal inf. const.) גַּשַת (qal inf. const.) שַׁעַת (qal inf. const.) שַׁעַת (qal inf. const.) שַׁעַת (qal inf. const.) שָׁעַת (qal inf. const.) שָׁעַת (qal inf. const.) בָּעַת (qal inf. const.) בָּעַת (qal inf. const.) שָׁעַת (קal inf. const.) שָׁעַת (קal inf. const.) שָׁעַת (קal inf. const.) (יעד (qal inf. const.) שַרָּשָׁת (qal inf. const.) בַּעַת (קal inf. const.) בַּעַת (קal inf. const.) בַּעַת (קal inf. const.) (יעד (קal inf. const.) שָׁעַת (קal inf. const.) (יעד (קal inf. const.) בַּעַת (קal inf. const.) (יעד (קal inf. const.) בַּעָת (קal inf. const.) בַּעַת (קal inf. const.) (יעד (קal inf. const.) בַּעָת (קal inf. const.) (ירש (קal inf. const.) בַּעָת (קal inf. const.) (ירש (קal inf. const.) (ירש (קal inf. const.) (ירש) (ישׁב (קal inf. const.) (ישׁב (קal inf. const.) (ירש) (ירש) (ירש) (ישׁב (קal inf. const.) (ירש) (ירש)

* <i>qil</i> sg./pl.			*qil s	sg./pl.	* <i>qul</i> pl.	
	"son" "name"		"man"			
	bin/	*bin/*banīm		*šimāt	*mutīm	
abs.	ڌر	בְּנִים	שֵׁם	שׁמוֹת	מְתִים	
const.	ڐ ۱∕ڎؙ	רְנֵי	שֵׁם/שֶׁם	שְׁמוֹת	מְתֵי	
+1cs	בְּנִי	<u>בְּנַ</u> י	שְׁמִי	יׁשְׁמוֹתַי∗	יְמְתַי∗	
+2ms	خذك	בְּגָׂיד	שָׁמְדָ	*שְׁמוֹתֶׁידָ	*ڟ۪ڽ۫ٮؗؗ	

Table 6.4. Biconsonantal Bases with Short Vowel, Part 4

^{9.} The words עוד "time" (< *'itt < *'int or *'idt) and אָמָי "giving" (< *titt < *tint) exhibit forms akin to the geminate *qill nouns due to the assimilation of their third root consonant into the feminine tav morpheme (e.g., עָקָם, אָקָם). For עָקָר (עָקוֹת, הָקָם). For עָקוֹת the tav is taken as a root consonant in the plural forms (e.g., עָקוֹם, similar to the tav in qalt nouns like מָלָשָׁת "bow."

+2fs	ڂڗڬ	<u>בְּנַ</u> יִד	שְׁמֵך	יִשְׁמוֹתַ י ִדְ*	מְתַיִד
+3ms	בְּנוֹ	<u>בְּנ</u> ְיו	שָׁמוֹ	יׁשְׁמוֹתָיו∗	מְתָיו
+3fs	בְּנָה	ݯݙݖݑ	שְׁמָה	*שְׁמוֹתֶֿיהָ	*ڟ۪ڽ۫ڹۘ
+1cp	ڂ۪ڗٞڗۥ	בְּגַֿינוּ	שְׁמֵׁנוּ	יׁשְׁמוֹתֵׁינוּ	*מְתֵׁינוּ
+2mp	×ڂ ^ۯ ڎڡ	בְּגֵיכֶם	שָׁמְכֶם	לִשְׁמוֹתֵיכֶם∗	ימֽתֵיכֶם∗
+2fp	٭ڂۯڎڵ	<u></u> לבֿזיכֿן	לשִׁמְכֶז∗	לִשְׁמוֹתֵיכָן∗	*מְתֵיכֶן
+3mp	*ڂؘۯؘڡ	בְּנֵיהֶם	שְׁמְם	שְׁמוֹתָם	*מְתֵיהֶם
+3fp	*ڂۯڵ	<u>בְּנ</u> ֵיהֶן	יֿשְׁמָז∗	יִשְׁמוֹתָז∗	*מְתֵיהֶן
	' 7 :	· · · ·	' - :	' - :	, ÷ ÷

*qul: תֹר/תּוֹר "dove"

Table 6.5. Biconsonantal Bases with Short Vowel, Part 5¹⁰

	'n	l sg./pl. nouth" v/* <i>piyāt</i>	"one	sg./pl. dead" * <i>mitīm</i>	"wit	sg./pl. ness" ' <i>`idīm</i>
abs.	έc	פֵּיוֹת/פִּיוֹת	מת	מֵתִים	עֵד	עֵדִים
const.	ۋر	_	מֵת	מֵתֵי	עֵד	עֵדֵי
+1cs	ۋر	_	מֵתִי	*מֵתַי	עֵדִי	עֵדַי
+2ms	فَرَكَ	_	تتلاك	מֶתָּיד	*מַרָד	<u>ט</u> ֶדֶׁיד
+2fs	פּיד	_	∗מ̈ٽڬ	*מַתַֿיִד	אַ ב אַ*	י <u>ּ</u> עַדַיִד×
+3ms	פִּיו/פִּיהוּ	_	מֵתוֹ	∗מֵתָיו	יעדו*	אַדָיו∗
+3fs	פּֿיהָ	_	*מֹתָה	*מֶתֿיה	*עַרָֿה	עָדָיהָ∗

^{10.} The table is supplemented by the following forms: גָרָן "your stranger"; גָרָן "his stranger"; גָרָן "her lamp." On פָּ and its classification, see Huehnergard, "Biblical Hebrew Nominal Patterns," 31 and references. Although שָׁה "sheep" has a similar abs. sg. form, its const. sg. form (אָר שָׁה) Deut 14:4) and form with suffixes (שָׁה) Deut 22:1 and in 1 Sam 14:34) suggests it is of the *qal base. In addition, although the abs. and const. sg. form of words like אָי "coastland" look like the const. sg. of הָשָּ, nouns like אָי are classified with the *qill base, as their pl. forms imply (e.g., אָים).

+1cp	פִּינוּ	—	*מֵתֵׁנוּ	מַמַינוּ∗	יעֵבֿנוּ∗	יעֵבֿינוּ∗
+2mp	פּיכָם	—	—	*מֵתֵיכֶם	—	צַדיכָם∗
+2fp	٭ڟؚ؞ڎڵ	—	—	מַמֵיכָז∗	—	צַדיכָז∗
+3mp	פּיהָם ¹¹	—	∗מִתָם	*מֵתֵיהֶם	עָדָם*	עֵדֵיהֶם
+3fp	≮פּיהֶן	_	*מַתָּן	מַתֵיהֶז*	צדָן*	עֵדֵיהֶז*

	*qāl sg./pl.		*qīl sg./pl.		
	"belo	oved"	"song"		
	dād/	dādīm	*šīr/>	*šīrīm	
abs.	דוֹד	דּוֹדִים	שִׁיר	שִׁירִים	
const.	דוֹד	*ד ו בֿי	שִׁיר	שִׁירֵי	
+1cs	בּוֹדִי	דּוֹדַי	שִׁירִי	*שִׁירַי	
+2ms	نبلك	דּוֹדֶֿיד	יִשִירְדָ∗	ۻ ڹؗڽ۫ٮڮ	
+2fs	न्त्रांन	דּוֹדַיִה	ישׁיב ַד ְ∗	שִׁי רַיִדָּ	
+3ms	ांगांग	*דּוֹדְיו	שִׁירוֹ	שׁירָיו∗	
+3fs	דּוֹדָה	* דּוֹ דֻֿיוָ	*שִׁירָה	יִשִׁיגָ <i>ָ</i> יהָ*	
+1cp	*רּוֹדֵׁנוּ	*דּוֹדֵׁינוּ	ישִׁירֵ ׁנוּ *	יִשִׁיבֵינוּ∗	
+2mp	*דוֹדְכֶם	*דּוֹדֵיכֶם	יּשִׁירְכֶם∗	שִׁירֵיכֶם	
+2fp	× ڊ ڹڗ۪ڿڒ	רוׂדַיכֶז∗	יִשִׁירְכֶז*	לִשִׁירֵיכֶן∗	
+3mp	*דּוֹדָם	*דּוֹדֵיהֶם	שִׁירָם∗	*שִׁירֵיהֶם	
+3fp	אָדָּוָדָץ×	דּוֹדֵיהֶן	יִשִׁירָז∗	לָשִׁירֵיהֶז*	

Table 6.6. Biconsonantal Bases with Long Vowel¹²

11. Note also פימו "their mouth" Ps 59:13.

^{12.} The table is supplemented by the following forms: קּוֹלָנם ("our voice"; רִיבְכָם יְרִיבְכָם יָלָוֹלָנָם ("your voice"; רִיבְכָם יָלִים יישׁר "your dispute"; יִרִבְכָם יָלים יישׁר dispute"; יִריבְכָם יישׁר dispute"; יִריבְכָם יישׁר dispute"; בִּינָתִי syour dispute"; בִינָתִד יישט understanding"; בִינָתִד ("your understanding"; בִינָתָכָם "my understanding"; סַטּוּבַר ייש טּוּבַי טוּבָר ("your goodness"; סַטּוּבן ייש טוּבן מוּנַק ("heir goodness"; סַטּוּבן "beir goodness"; יענו מוּבָה ("their goodness"; יוּבַתַכַם ("heir goodness"; מוּבָה "your spirit."

	* <i>qīlat</i> sg./pl. "song"		* <i>qūl</i> sg./pl. "horse"	
	*šīrat	/*šīrāt	*sūs/*	sūsīm
abs.	שִׁירָה	שִׁירוֹת∗	סוּס	סוּסִים
const.	שִׁירַת	שִׁירוֹת	סוס	סוּסֵי
+1cs	יִשִירָתִי*	יׁשִׁירוֹתַי∗	*סוּסִי	סוּסַי
+2ms	*שִׁירְתְדָ	יָשִׁירוֹהֶ ֿי ד∗	זסוּסָד*	סוּסֶْידָ
+2fs	*שִׁירְתֵ ד	*שִׁירוֹתַ <i>ֿ</i> יִדְ	זסוּסַד*	*סוּסַיִד
+3ms	יֹשִירָתוֹ*	שׁירוֹתָיו∗	*סוסו	סוּסְיו
+3fs	*שִׁירָתָה	יָשִׁירוֹתֶֿיהָ∗	∗סוּסָה	∗סוּסֶֿיהָ
+1cp	יִשִׁירְהֵ ׁנוּ *	יִשִׁירוֹתֵׁינוּ*	יסוּמָנוּ∗	יסוּסֵׁינוּ∗
+2mp	ישִׁירַתְכֶם∗	שִׁירוֹתֵיכֶם∗	*סוּסְכֶם	סוּסֵיכֶם
+2fp	יֿשִׁירַתְכֶן∗	לִשִׁירוֹתֵיכֶן∗	∗סוּסְכֶן	∗סוּסֵיכֶן
+3mp	*שִׁירָתָם	ישִׁירוֹתֵיהָם∗	∗סוּסָם	סוּסֵיהֶם
+3fp	יִשִירָתָן∗	ישִׁירוֹתֵיהֶן∗	יסוּסָן∗	∗סוּסֵיהֶן

- *qāl: הוֹל "sand"; כוֹס "good" כוֹס "cup" קוֹל voice"
- *qīl: אַישׁ "man"; גִיל "rejoicing"; דָין "judging" (qal inf. const.) and "judgment"; עִיר "city"; קיר "wall"; רִיב "contending" (qal inf. const.) and "strife"; רִיק "emptiness"; שִׁים "setting" (qal inf. const.); שִׁית "setting" (qal inf. const.) and "garment"
- *qīlat: קִינָה ("rejoicing"; גִילָה "rejoicing"; קִינָה "lament"
- *qūl: לוּחַ "fire"; כוּר "goodness"; כוּר "furnace"; נוּן "tablet"; נוּן "fish"; לוּחַ "rising" (qal inf. const.); שוּרן "spirit"; שוּרן "street"; שוּר "row" and "wall"

Notes: Relatively rare feminine forms of *qāl and *qūl bases also occur: סוּפָה "good" and סוּפָה "stormwind."

6. CHARTS OF NOUNS AND VERBS

	* <i>qall</i> sg./pl. "people" *'amm /*'ammīm		* <i>qallat</i> sg./pl. "daughter-in-law" * <i>kallat/*kallāt</i>	
abs.	עם	עמים עַמִּים	געוועז כַּלְה	א קא א <i>א</i> ∗כַּלּוֹת
const.	עַם	עַמֵי עַמֵי	ַבַּיָּיז ∗בַּלַת	ַ <i>בַּיּוּז</i> יבַלּוֹת
+1cs	עַמִי	עַמַי*	∗בַּלְּתִי	∗בַּלּוֹתַי
+2ms	עַמְדָ	עַۿ۪۫ڗ٦	ۊٙۏٝٮؘٚڬ	٭ڎؚ؋ؚڹڽٚ۫ٮڬ
+2fs	עַמֵּד	*עַמַּיִד	ۊٙۏؚٝؾڐ	٭ڎؚڂڹٮؚٙڹڐ
+3ms	עַמּוֹ	עַמָּיו	כַּלְתוֹ	∗בַּלּוֹתָיו
+3fs	ឬផ្ក	עַמֶּׁיהָ	ۊٙڋؚ۬ڔٙ؉	פַּלּוֹתֶֿיהָ
+1cp	עַמֵּנוּ	יעַמֵּינוּ∗	؞ؚۊٙڋؚ۬ڽؚٚڗ <i>ڹ</i>	∗בַּלּוֹתֵׁינוּ
+2mp	*עַמְּכֶם	∗עַמֵּיכֶם	٭ۊٙۄؚٚٙؗؗؗٮۯڎڡ	פַּלּוֹתֵיכֶם
+2fp	∗עַמְּכֶן	עַמֵּיבָן*	٭ڂٙۮؚٙٮڵڎٵ	*בַּלּוֹתֵיכָן
+3mp	עַמָּם	∗עַמֵּיהֶם	×ēؚڂؚٚٮڟ	≮כַּלּוֹתֵיהֶם
+3fp	*עַמָּן	עַמֵּיהֶן	₅ڐٙڂؚ۬ڵڵ ٭	∗∈ַלּוֹתֵיהֶן

Table 6.7. Geminate Bases, Part 1¹³

	"pri	*qall sg./pl. "prince" *śarr/*śarrīm		t sg./pl. tress" t/* <i>șarrāt</i>
abs.	שַׂר	שָׂרִים	צְרָה	צְרוֹת
const.	שַׂר	שָׂרֵי	צְרַת	צְרוֹת
+1cs	⁺שָׂרִי	שָׂרַי	צְרָתִי	*צְרוֹתַי
+2ms	יָשָׂרָד [ָ]	₩ָגָי ק	*غْنْلْكِ	*ێؚۮٵۺ۫ڗ

^{13.} The chart is supplemented by the following forms: תְּבָּיְכָם "your nose"; תַּבִּיכָם "your festivals"; יעני קטער festivals." In some cases gemination does not occur with the masc. sg. form of the word with 2m/fp suffix (e.g., שַׁרְכָם "your prince" Dan 10:21). The form ישָׁרְכָם "its wild animal" (Zech 2:14; Ps 50:10; 79:2; 104:11, 20) is anomalous and is in construct with a following word in each passage.

+3fp	יָשִׂרָז* *	*שָׂבִיהֶן	*צְרָתָן	אַרוֹתָז*
+3mp	*שָׂרָם	שָׂרֵיהֶם	אָרָתָם	צְרוֹתָם
+2fp	ײַלְכֶן∗	*ڟؘؚ۪ؿڹڿٳ	*ۼٟٚٮؚڔۛڿڒ	צְרוֹתֵיכֶן∗
+2mp	שַׂרְכֶם	שָׂרֵיכֶם	אָרַתְכָם	אָרוֹתֵיכָם
+1cp	יִשְׂרֵנוּ*	שָׂרֵׁינוּ	ۼؚڔٙڝ۫۫ۮڹ	*צְרוֹתֵׁינוּ
+3fs	*שָׂרָה	ڟ۪ <u>ٚ</u> ۑؙٛڹۘ	*צְרָתָה	אָרוֹתֶֿיהָ*
+3ms	יִשָׂרוֹ	שָׂרִיו	צְרָתוֹ	צְרוֹתָיו
+2fs	*שָׂבד	ש <u>ָׂר</u> יִדְ	* ָ צְרָתֵדְ	*ۼؚۮڶ۩ۣ۫ڹڐ

- *qall: אַן "nose" (< *'anp); גַן "garden"; דַל "poor"; אַף "festival"; הַר "festival"; יַם "alive"; פַר "bitter"; עַז "mighty"; פַר "male bovine"; עַז "enemy"; בַר "numerous"; שַר "evil"; שַר "prince"
- *qallat: חַלָּה "cubit"; חַיָּה "wild animal"; חַלָּה "circle-shaped bread"; הַמָּה "glow, sun"; אָבָה "distress"; אָבָה "concubine"; קָרָה "concubine"; שָׁרָה "princess"

Table 6.8.	Geminate	Bases,	Part 2 ¹⁴
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	*qill s	g./pl.	* <i>qillat</i> sg./pl.		
	"arro	w"	"cor	ner"	
	*ḥi <u>ṭṭ</u> /*ŀ	ıi <u>țt</u> īm	*pinnat	/*pinnāt	
abs.	מַץ	חִצִּים	ھَذِب	פנות	
const.	מא	חָצֵי	فةע	פּנוֹת	
+1cs	חִצִּי	חִצַי	٭ڟؘڎؙڵ؞	≮פּנוֹתַי	

^{14.} The chart is supplemented by the following forms: אָקֶכָה "your shade"; קַאָּרָן קאָינוּ אָקָכָן "her shade"; קאָיָקָט "your fire"; אָקָכָן and אָקָכָן "your mother"; קַאָּינו "its measurements"; מְדּוֹתֶׁיהָ "my strength"; רְנָתָר "my cry"; רְנָתָר "its measurements"; מְדּוֹתֶיה "its strength"; and יְנָת "its strength"; and יָנָת "all of it"; "your strength"; קַלָּכָם "all of you"; יָקָמָת "its strength"; קַנָּת "your integrity" (pausal); הָפָרָו is booth." In some cases gemination does not occur with the masc. sg. form of the word with 2ms and 2m/fp suffix (e.g., קָקָר, "your statute" Lev 10:13; "your streng" קַכָּב

+2ms	*نلغك	ָח <u>ָ</u> אָיד	<u>٭</u> ظرَن <u>ٰا</u> ـ	*פִּנּוֹתֶֿיד
+2fs	*نظل	*بَغْنِة	*खंहेंप्रे	٭ھِڍَاطِّنِج
+3ms	חִצוֹ	חָאָיו	*ھَدِّلا	פּנֹתָיו
+3fs	*بنڅي	*ִחִאָּׁיהָ	فأثرك	٭פִּנּוֹתֶֿיהָ
+1cp	*תִאָּנוּ	*חִאַּינוּ	٭ڟؘڎؘ۫ۑٚڗۥ	אפִנּוֹתֵׁינוּ
+2mp	*ükča / ينفدّ *	*ָּהָצֵיכֶם	؞ؗڟٙڗٙٮؗۮڟ	*פּנּוֹתֵיכֶם*
+2fp	*شٍېڅا / ۽ننځگا	*חָצֵיכָן	_* فَةِنْدُدُا	≮פּנּוֹתֵיכָן
+3mp	نلأق	*תִּצֵיהֶם	×ظأنظ *	פּנוֹתָם
+3fp	*بغًا	יִק צ ִיהֶן*	٭ڧۇنرا	*جَدَابَر

חֻקִּים

חַקַי

חַקַּי

חַלֶּיד

*תֻלַּיָד

חֻקָּיו

*חֻלֶּיהָ

*חֻלֵּינוּ

*חֻקֵּיכֶם

*חֻקֵיכֶן

*חֻקֵּיהֶם

*חֻקֵּיהֶן

*qullat sg./pl.

"statute"

*ḥuqqat/*ḥuqqāt

חֻקָּה

הַקַּת

*חֻקָּתִי

*תֻקָּתָדָ

אַקָּמָד*

*חֻקָּתוֹ

*חֻקָּתָה

*חֻקָּתֵׁנוּ

*תֻקַּתְכֶם

אָקַקָּגָכֶז*

*חֻקָּתָם

*חֻקָּתָן

*חֻקוֹת

חקות

חָקּוֹתַי

חַלְתָיד

*חֻקּוֹתַיִדְ

חָקֹתַיו

*חֻקּוֹתֶּיהַ

*חֻקּוֹתֵׁינוּ

*חֻקּוֹתֵיכֵם

*חֻקּוֹתֵיכֵן

חַקּתֵיהֶם / חֻקּתָם

*חֻּקֹתֵיהֵן / *חֻּקֹתָן

**qull* sg./pl.

"statute"

*ḥuqq/*ḥuqqīm

חק

חֹק/חָק־

חֻקִּי / *חָקִי

תָקָדָ / *תָקָדָ

חַקַד

חֶקוֹ

*חֻקָּה

אָקָלני*

חָקָכֶם / *חֻקְּכֶם

יָּחָקֶכֶז / *חֻקְּכֶז*

הַקָּם

יחקו*

abs.

const.

+1cs

+2ms

+2fs

+3ms

+3fs

+1cp +2mp

+2fp

+3mp

+3fp

2	2	7
4	4	7

- *qill: הַל "mother"; אַש "fire"; הַן "grace"; לַב "shade"; הַן "shade"; הַן "end"; לַב "tooth"
- III-vav/yod: אָי "coastland"; אָי "hyena"; הַי "lamentation"; עַי "ruin";
 "y "ship"; עַי "desert animal"; רַי "moisture"¹⁵
- *qillat: מְדָה "measure"; רְנָה "cry, celebration"
- *qull: מֹר "bear"; מֹר "myrrh"; מֹר "might"; הֿם "integrity";
 multitude"; הֹם "evil"
- *qullat: אָמָה "people"; סְכָה "booth"; הַמָּה "integrity"

*qatl sg./pl. "king" *malk/*malakīm		- "qu	t sg./pl. een" /* <i>malakāt</i>	* <i>qatl</i> sg./pl. "death" * <i>mawt/</i> * <i>mawtīm</i>		
abs.	מָלָד מָלָד	מְלָרִים מְלָרִים	ַמַלְבָּה מַלְבָּה	מְלָבוֹת	מָ <i>וָ</i> ת	מוֹתִים*
const.	ڟ۪۫ڮ	מַלְבֵי	מַלְּבַּת	מַלְכוֹת	מות	מוֹתֵי
+1cs	מַלְהִי	*מְלָבַי	*מַלְבָּתִי	∗מַלְכוֹתַי	מותי	מוֹתַי∗
+2ms	מַלְבְדָ	*ڟ۪ۯٚڿ۫ٮؗؗ	*ڡٟٙڔٝڎؚؠۧڐ	*מַלְכוֹתֶ <mark>ֿ</mark> יד	אמותד*	*מוֹתֶּיד
+2fs	מַלְבֵּדְ	*ڟ۪ڂؘٟڂؚڹڂ	*ڡٟ۬ڂۭڎؚؚؿڐ	*מַלְבוּתַֿיִד	*מוֹתֵד	*מוֹתַֿיִד
+3ms	מַלְּבּוֹ	*מְלָבָיו	⁺מַלְבָּתוֹ	*מַלְכוֹתָיו	מותו	בּזֹתָיו
+3fs	מַלְבָּה	מְלָבֶׁיהָ	*מַלְבָּתָה	*מַלְבוֹתֶֿיהָ	מוֹתָה	*מוֹתֶֿיהָ
+1cp	מַלְבֵּׁנוּ	מְלָבֵׁינוּ	ؚڟؚڂؚڟؚڗڹ	*מַלְכוֹתֵׁינוּ	מוֹתֵׁנוּ∗	∗מוֹתֵׁינוּ

Table 6.9. Segolate Bases, Part 1¹⁶

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^{15.} III-*vav/yod* words like אי "coastland" have pl. forms revealing a doubled *yod*: אָיים. The words are not attested with suffixes. However, these derive ultimately from a **qall* base (see Steiner, "On the Monophthongization," 73–83).

^{16.} The table is supplemented by the following forms: אָהֲבְתוּ "my love"; אַהֲבְתוּ "his love"; אַהֲבָתָה "his love"; אַהֲבָתָה "his young women"; אַהֲבָתָה "her young women." Unlike most other Hebrew nouns, the class of segolate nouns has one base pattern for the sg. and another base pattern for the pl. While the sg. pattern has just one vowel, the pl. base pattern almost always has two. There are, however, some exceptional pl. segolate nouns that attest an alternative form with just one historical vowel in the stem: הְכָמוֹת "isodom"; הַמָרַתִּהים "bowels, compassion"; הַמָּמִהַים "flax." These nouns exhibit no medial */ā/ (> THP /å/) with suffixes (e.g., בַּמַיִּתָ and ווּ הַרַחַמִיָּם).

+2mp	מַלְּבְּכֶם	מַלְבֵיבֶם	∗מַלְכַּתְכָם	*מַלְכוֹתֵיכֶם	מוֹתְכֶם∗	*מוֹתֵיכֶם
+2fp	٭ڡٟٙڂۭڎؚؼڒ	*מַלְבֵיבֶן	٭ڡٟٙڂٕڎؚؠڎٵ	∗מַלְכוֹתֵיכֶן	מוֹתְכֶז∗	*מוֹתֵיכֶן
+3mp	מַלְבָּם	מַלְבֵיהֶם	*מַלְכָּתָם	*מַלְכוֹתָם	מוֹתָם	*מוֹתֵיהֶם
+3fp	*מַלְכָּז	∗מַלְבֵיהֶז	*مַלְבָּתָז	*מַלְבוּתָז	מוֹתָן∗	מוֹתֵיהֶן∗

- * *qatl*: پَدֶר "stone"; אָָלֶף "thousand"; אָלֶר "cedar"; אָבן: "earth"; גָּבָר "man"; אָלֶר "vine"; דָרָד "path"; אָרַע "seed"; הָרָב "sword"; לָלֶד (boy"; לָלֶד silver"; גָּבָן "silver"; גָּבָן "boy"; לָלֶד "silver"; גָּבָן "silver"; גָּבָן "silver"; גָּבָן "sinage"; אָלֶר "foot"; אָלֶר "oil"
- II-vav/yod roots: הָוָדָ "midst"; בֹיָת "house"; עָיַן "spring, eye" (see table 6.14); אָיל "ram"
- III-*yod* roots: see below under **qitl*
- III-vav roots: אָׁחוֹ "swimming"; אָחוֹ "reeds"
- Aramaic-like forms: גְּבַר "behind" (const.); גְּבַר "man of" (const., vs. אָבַר abs.); הַבַל "wanity of" (const., vs. הָבַל abs.); הָבַל "myrtle"; סְחַר "room of" (const., vs. חְדַר abs./const.);¹⁷ וְמָן "time";¹⁸ הָתַר "merchant of" const.; שָׁבֵם "shoulder"¹⁹
- *qatl in pause, but with *qitl-base for suffixes: פָּסֶל "image of divinity"; פָּסָל "grave"; הָכָב "chariotry"; שֶׁבָר "sun"
- *qatlat: בְּשָׂה "love, loving" (qal inf. const.); בְּשָׁה (vs. יָבְשָׁה)
 "young ram"; נַעֲרָה "girl"; עַלְמָה "marriageable girl"; עַוְלָה "injustice"

^{17.} Huehnergard, ("Biblical Hebrew Nominal Patterns," 36) lists this as a *qitl noun, though it appears in most of its suffixed-occurrences (and in the const. pl.) with a *patakh* in the first syllable; only once does it have a *segol* (Joel 2:16).

^{18.} This is an Aramaic loanword; note BA זְמָן (Dan 2:16) but זְמָן (Dan 7:12) and the emphatic form זְמָן. The *qamets* in the Hebrew form is presumably an accomodation to Hebrew sound rules. Fox (*Semitic Noun Patterns*, 137) suggests that the form of the Aramaic noun, זְמן, suggested to Hebrew speakers that the final *nun* was geminated with endings, thus leading to forms like קַמָּטָר (Esth 9:27), akin presumably to עַמים y and הַדָּסָים in the plural הַדָּסָים.

^{19.} On אָכֶם, see Fox, Semitic Noun Patterns, 136. Note also אָכָם "want of" (const., vs. יָחָסָר abs.); with abs.); שָׁנָר "offspring of" (const., vs. אָלָג מָאָג

		<i>tl</i> sg./pl. ather"	*qatl sg./pl. "brother" *'aþ/*'aþ(þ)īm		
	`ał	p/`abāt			
abs.	אָב	אָבוֹת	אָח	אַחִים	
const.	אָבי	אֲבוֹת	אֲחִי	אַחֵי	
+1cs	אָבִי	אֲבוֹתַי	אָחִי	אַחַי	
+2ms	אָבִֿיד	ېدוنۋىت	אָחִיד	אַڽۧ۫יד	
+2fs	אָבִידְ	אָאַבוֹתַיִד*	אָחִיד	אַחַיִד	
+3ms	אָבִיהוּ / אָבִיו	אֲבוֹתָיו	אָחִיהוּ / אָחִיו	אֶחִיו	
+3fs	אָבִֿיהָ	אָאַבוֹתֶֿיהָ∗	אָחִֿיהָ	אֶַּתֹיהָ	
+1cp	אָבִֿינוּ	אָבוֹתַֿינוּ	אָחִׁינוּ	אַהֿינוּ	
+2mp	אַָבִיכֶם	אֲבוֹתֵיכֶם	אַָחִיכֶם	אֲחֵיכֶם	
+2fp	אָבִיכֶן	אַבוֹתֵיכֶן*	אֲחִיכֶן*	אָאַתֵיכֶן∗	
+3mp	אֲבִיהֶם	אֲבוֹתֵיהֶם / אֲבוֹתָם	אֲחִיהֶם	אַָחֵיהֶם	
+3fp	אֲבִיהֶן	אַבוֹתָז / *אַבוֹתָז*	אֲחִיהֶן*	אָמיהָן*	

Table 6.10. Segolate Bases, Part 2

Table	6 11	Segolate	Bases	Part 22	0
Table	6.11.	Segolate	Bases,	Part 3 ²	0

	* <i>qitl</i> sg./pl. "book"		* <i>qitlat</i> sg./pl. "tears"		*qitl	sg./pl.	*qitl sg.	
					"ornament"		"captivity"	
	sipr/	⁺ siparīm	*dimʿat/*dimaʿāt		*`idy/*`idayīm		*šiby	
abs.	לֵפֶר	סְפָרִים	דִמְעָה	דְּמְעוֹת	אַדי	אַדְיִים	שְׁבִי	
const.	מַפֶּר	*סִפְרֵי	דִּמְעַת	יִדְמְעוֹת*	אַדי	[*] אַדָיי	שְׁבִי	

20. The following chart is supplemented by the following forms: יָּבְעָרַיּ אַמְקָרַי "your valley"; שָׁמְעָהַ: "her news"; יָבְרָם "their memory"; שְׁמְעָהַ "my words"; שָׁבְטֵיכֶם "your tribes"; אָמְעָרָיו אָמְעָהָ "his words"; שְׁבְטֵיהָם "your tribes"; שָׁבְטֵיכֶם "their tribes"; pausal אָמְעָרָים, "your tears"; העַרָחָת "their offering"; מְנְחָתִים "their offerings"; מְנְחָתִים "your fruit"; יָבָי "his off"; מְנְחָתִים "your fruit"; יָביי "his jaws"; אָבִיי "my jaws"; לְחָיָיך "your jaws"; לְחָיָיך "your jaws"; לְחָיָי "their jaws." The word יִבִיי "be some a peculiar form with the 2mp suffix, what is essentially the const. form + suffix: יָּבִייֶם.

+1cs	סִפְרִי	*סְפְרַי	וּמְעָתִי	יִדִמְעוֹתַי*	עָדְיִי*	יְעַדְיַי	שִׁבְיִי∗
+2ms	סִפְרְדָ	٭؋۪؋ۣڕ۫ٮؗڋ	*ڹ <i>ۻ</i> ۪ڽؚڔڐ	יּדִמְעוֹתֶ ׁי דָ*	עָרְיָד	* <u>ְע</u> ָדָיֶיד	שֶׁבְיָדָ
+2fs	*סִפְרֵדְ	*ڡ۪؋ؚۮٟڹڗ	*ڹ ؚ ڟ۪ڽٚؾڋ	יִּד ְמְעוֹתַ יִדְ*	עָרְיֵה	* <u>ְעַדְי</u> ֹיָד	יּשָׁרְיֵדְ∗
+3ms	*סִפְרוֹ	*ּסְפְרִיו	יִד ִמְעָת וֹ	יִדְמְעוֹתָיו*	עָדיוֹ	אַדְיָיו*	שִׁבְיוֹ
+3fs	*סִפְרָה	*؋۪؋۪ڕ۫۫ڹڔ	ڊمۭۑٛڔ؞	יִד ִמְעוֹ תֶֿיהָ*	עֶדְיָה	[*] ְעַדָּיֶּיהָ	שָׁבְיָה
+1cp	*סִפְרֵׁנוּ	*סְפְרֵינוּ	*דִּמְעָ <u>ת</u> ַנוּ	יִדְמְעוֹתֵׁינוּ*	עְרְיַנוּ∗	<u>ְּע</u> ְדְגֵׁינוּ	יּשָׁרְיֵׁנוּ
+2mp	*סִפְרְכֶם	*סִפְרֵיכֶם	*דְּמְעַתְכֶם	דִּמְעוֹתֵיכֶם*	עָדְיָכֶם*	[*] עֲדֵיכֶם	שְׁבִיכֶם
+2fp	*סִפְרְכֶז	*סִפְרֵיכֶן	[*] דִּמְעַתְכֶן	דִּמְעוֹתֵיכֶז*	עִדְיְכֶז*	<u>אַ</u> דיכָן*	יִשְׁבִיכֶן∗
+3mp	*סִפְרָם	*סִפְרֵיהֶם	*דִּמְעָת <u>ָ</u> ם	יִדְמְעוֹתָם*	עֶרְיָם	<u>אַ</u> דֵיהֶם*	שָׁבְיָם
+3fp	*סִפְרָז	*סִפְרֵיהֶן	*ڹ <i>ۻ</i> ؚۑؚڔ	יִדְמְעוֹתָז*	עָדְיָן*	<u>א</u> ָדֵיהָן*	יּשָׁרְיָן∗

- *qitl: מַׁתָר ("memory"; שַׂמַע "news"; אַמֶר "word"; מַׁתָר "sin"; מַׁתָר "hiding place"; מַׁתָר "valley"; שַׂבָט "tribe"; מַׁלֶב ("herd"; מַׁלֶב "fat"; מַׁלֶע "share"; מַׁגָל ("share"; מַׁגָל "nine"); מַׁגָשָׁב "herbage"; מַּגָל ("nine");
- with initial segol: אָבח "sacrifice"; אָרָב "midst"; שָׁבַע "seven"; שָׁקָל "seven"; שָׁקָל
- mixed type: גָּדֶר/גַּדֵר "vow"; שֶׁבֶר/שֵׁבֶר "breach"
- III-yod roots (some perhaps originally *qatl): גְּדִי "weeping"; גְּדִי "kid"; יְבָי "jawbone"; יְבָרִי "fruit"; אָבִי "beauty" gazelle"; שְׁבִי "captivity"
- Aramaic-like forms: אָבַע "well"; אָבַש "honey";²¹ אָבַע "seven of" (const., vs. אָבַע abs.); הָשַׁע abs.)
- *qitlat: גְּבְעָה "hill"; יְרָאָה "fear, fearing" (qal inf. const.); מְנְחָה "gift"; שְׁמָחָה "joy"; שְׁמְלָה "cloak"; שִׁמְחָה "maidservant"

^{21.} See Fox, Semitic Noun Patterns, 136; Alexey Yuditsky, "דָבָש and Similar Forms," Leshonenu 71 (2009): 281–86 (Hebrew).

	۲	*qutl sg./pl. "holiness" †qudš / *qudašīn	24	"fore	t sg./pl. eskin" ' * <i>ġuralāt</i>
abs.	לֹדֶשׁ		,, קדָשִׁים / קָדָל	ערלה ערלה	עָרָלוֹת*
const.	לָדֶשׁ	עי	קד	עָרְלַת	עָרְלוֹת
+1cs	קִדְשִׁי	קָדָשַׁי	ָקָדָש <u>ַׁ</u> י*	*עָרְלָתִי	יעָרְלוֹתַי∗
+2ms	קַדְשְׁדְ	[*] קִדְשֻּׁידִ	ָק ד ָשֶׁידָ	*ېْرْجْ ل ا	×ۑؚٛڔڂڹؗڝ۫۫ڗ
+2fs	ָקִדְשֵׁדְ*	[*] קִדְשַׂיִדְ	אָקדָשַׂיִד [ָ]	*ųؚٛڔڔٝؾ ڋ	*טָרָלוֹתַֿיִד
+3ms	קִדְשׁוֹ	קָדָשָׁיו	ָק ד ָשָׁיו	עָרְלָתוֹ	עָרְלוֹתָיו∗
+3fs	*קִדְשָׁה	*קדؚڛٚٛڹۛ	אָקדָשֶ <mark>ֿי</mark> הָ*	*ۑؚٛڔڮؚٝڔ؉	אָרְלוֹתֶׁיהָ*
+1cp	קִדְשֵׁנוּ	יקדָשֵׁינוּ*	[*] קָדָשֵׁינוּ	[*] ۑؚٟ۫ڂ۪ۯؚؗڝ۫ؽ	יַעָרָלוֹהֵינוּ*
+2mp	*קؚדְשٜٚڿؚڡ		קְדְשֵׁיכֶם	עָרְלַתְכֶם	אַרְלוֹתֵיכֶם∗
+2fp	*קִדְשְׁכֶן		ָקַדְשֵׁי כ ָז*	*ۑؚٛڔڂٟڔڿڒ	עָרְלוֹתֵיכֶן∗
+3mp	*קִדְשָׁם		קַדְשֵׁיהֶם	עָרלָתָם	עָרְלֹתֵיהֶם
+3fp	קד ִ שָׁז*		אָדְשֵׁיהֶז* *	*ۑؚ۫ڔڂؚٛڔؠ	[*] עָרְלוֹתֵיהֶן

Table 6.12. Segolate Bases, Part 4²²

More Examples

- *quīl: גֹּרֶז "food"; אֹרַח "way"; בֿקָר "morning"; גֹּרֶז "threshing floor"; גֹּרֶז "month"; מֹרֶב "darkness"; מֹרֶה "darkness"; עֹּרֶף "neck"; עֹּרֶף "root"; שֹׁרֶש "toot"; שֹׁרֶש "toot"; מֹרָם אוֹרָם "breadth"
- III-yod roots: הֲלִי "sickness"; אֲנִי "affliction" (see table 6.13); אֲנִי "balsam"
- III-vav roots: מָהוּ "formlessness"
- Aramaic-like forms: בְּאֹשׁ "stench" (see table 6.13); מָאָד "very much"
- *qutlat: אָכְלָה "food"; טְהָרָה "purity"; שָׁכְלָה "impurity"; קרְחָה "fold patch"; אָכְלָה "ruins"; עָרְמָה "cleverness"

^{22.} The chart is supplemented by the following forms: אָרְלְכֶם "your food"; אָרְלָם "their food"; אָרְלַתִיּהָ "her roots"; אָרְלַתִיּהָ "your ruins"; אָרְלַתִיה "his ruins"; אָרְלַתִיה "her ruins."

	"te	sg./pl. ent" Pahalīm ²³	* <i>qutl</i> sg. "iniquity" *'uny	*qutl sg. "stench" *bu'š	* <i>qutl</i> sg. "fullness" * <i>mul</i> '
abs.	ۿؘڽٙۯ	אֹהָלִים	ַעֲנִי	רְאֹשׁ*	אְלאׁ∗
const.	אֿהָל	אָהֲלֵי	אֲנִי	באש	מְלֹא
+1cs	אָהֶלִי	אֹהְלַי	עָנְיִי	יָבָא <i>ְ</i> שִׁי*	*מְלֹאָי
+2ms	אָהָלְדָ	אֹהָלֶידָ	דָּנְיָד [*]	÷Ęې۠؇۪	*ڟؚ۪ؗ۬ڴڹؚڲؚ
+2fs	אָהָלֵד	*אֹהְלַיִד	עַנְיֵד	*בؚٙא۪ؗڟ۪۪	אָלאָד*
+3ms	אָהֶלוֹ	אֹהָלָיו	ָעָנְיוֹ	נְאָשׁוֹ	מְלֹאוֹ
+3fs	*אָהָלָה	*אֹהָלֶׂיהָ	עָנְיָה	*ڿؚؚۼ۪ؗڟؚ۪ؗؗ؋	מְלֹאָה
+1cp	*אָהֶלֵנוּ	*אֹהָלֵינוּ	עָנְיֵנוּ	*בָאְשֵׁנוּ	*מְלֹאֵׁנוּ
+2mp		אָהֲלֵיכֶם	[*] עָנְיְכֶם		_
+2fp	_	*אָהָלֵיכָ <i>ן</i>	עָנְיְכֶן*		_
+3mp	*ېېږېם	אָהֶלֵיהֶם	עָנְיָם	בָּאְשָׁם	יְמְלֹאָם∗
+3fp	*אָהָלָן	*אָהְלֵיהֶן	יָנְיָז [ָ]	ڋؚۼ۪ؗؗۻ۪ٚٳ	*ڟ۪؇۬ۑٚٳ

Table 6.13. Segolate Bases, Part 5

Table 6.14. Segolate Bases, Part 6

	*qatl sg./du./pl. "eye" *'ayn / *'aynaym / *'ay(a)nāt			* <i>qutl</i> sg./du. "ear" *'u <u>d</u> n / *'u <u>d</u> naym		
abs.	עַיו	<u>עֵינֿי</u> ִם	<u>ְע</u> ִיָנוֹת	אָד	ַבְּ <u>ו</u> ּלַיִם אָז <u>ְנֿי</u> ִם	
const.	עיז	עיני	עֵינֹת	אֿגָן	אָזְנֵי	
+1cs	עֵינִי	עֵינַי	יעֵינוֹתַי∗	אָזְנִי	אָזְנַי	
+2ms	טֵינְדְ	עֵינֻֿיד	יעֵינוֹתֶֿי∓*	אָזְנְד	אָןנֻֿיד	
+2fs	טֵינֵדְ	עֵינַיִד	יעֵינוֹתַיִד∗	אָזְנֵךּ	אָזְנַיִד	

^{23.} The etymology of "tent" is hard to piece together; perhaps *ahl > *al > *ol > *ol > *ohl (?) (see Fox, *Semitic Noun Patterns*, 74 and references).

+3ms	עֵינוֹ	עֵינְיו	יעֵינוֹתָיו∗	אָזְנוֹ	אָזְנְיו
+3fs	עֵינָה	עֵיגֶֿיהָ	אַעינוֹהָֿיהָ∗	אָזְנָה*	*אָזְנֶֿיהָ
+1cp	עֵיגַנוּ	עֵיגַֿינוּ	יעֵינוֹהֵינוּ∗	*אָזְנֵׁנוּ	אָזְנַינוּ
+2mp	עֵינְכֶם	עֵינֵיכֶם	עינוֹתֵיכֶם∗	אָזְנֵיכֶם	אָזְנֵיכֶם
+2fp	עֵינְכֶן	צינֵי⊂ָן∗	צַינוֹתֵיכָן∗	*אָזְנֵיכָן	*אָזְנֵיכֶן
+3mp	עֵינָם	עֵינֵיהֶם	עֵינוֹתָם	אָזְנָם	אָזְנַיהֶם
+3fp	יעֵינָן*	עיניהָן	עֵינוֹתָז∗	*אָזְנָן	*אָזְנֵיהֶן

Table 6.15. *Qatal Base²⁴

	*qatal sg./pl.		*qatala	<i>t</i> sg./pl.	*qatal sg.	* <i>qatal</i> pl.
	"we	ord"	"righte	ousness"	"field"	"face"
	*dabar/`	†dabarīm	*ṣadaqat	:/*ṣadaqāt	*śaday ²⁵	*panayīm
abs.	זָּבָר	דְּבְרִים	אָדָקָה	ּצְדָקוֹת	שְׂדֶה	פָּנִים
const.	דְּבַר	דִּבְרֵי	צִּדְקַת	צִדְקוֹת	שְׂדֵה	פְּנֵי
+1cs	ּדְבָרי	דְּבְרַי	צִּדְקָתִי	*צִדְקוֹתַי	שָׂדִי	قَدَر
+2ms	ڂڂ ڂڬ	<u>דְבָרֶ֫י</u> דְ	אַדְקָתְדָּ	ۼڗٕڟ۪ڽٞڐ	שָׂדְדָּ	ۊ۪ڋؘڗڗ
+2fs	ڂؘ ڗڬ	<u>דְּבְרַיִ</u> דְ	<u>אַ</u> לְלַתֹּב	*צִדְקוֹתַיִדְ	*שָׂבד	פְּנַֿיִד
+3ms	דְּבְרוֹ	ְדְב ְרָיו	צִּדְקָתוֹ	ּצִדְקׂתֵו	ײ ַבֿהוּ	פְּנְיו
+3fs	*דְּבָרָה	ڹؚڂؚڔۛ۫ؠڬ	*צִּדְקָתָה	*צִדְקוֹתֶׄיהָ	שָׂדָה	פָּגָֿיהָ
+1cp	דְּבָרֵנוּ	*דְּבָ <u>ר</u> ַינוּ	*צִדְקָתֵׁנוּ	ּצִדְקׂתֵׁינוּ	יָשָׂבֿינוּ*	פְּגַׁינוּ
+2mp	*דְּבַרְכֶם	דִּבְרֵיכֶם	*צִּדְקַתְכֶם	*צִּדְקוֹתֵיכֶם	—	פְּנֵיכֶם
+2fp	*ڹٟڂٙڶڎؽ	*דִּבְרֵיכֶן	*צִּדְקַתְכֶן	*צִּדְקוֹתֵיכָן		*ڟ۪ڐٮڎڵ
+3mp	*דְּבָרָם	דִּבְרֵיהֶם	ּצִּדְקָתָם	צִּדְקוֹתָם∗	*שָׂדָם	פְּנֵיהֶם
+3fp	[*] ְדְבְרָן	*דִּבְרֵיהֶן	*צִּדְקָתָן	*צִּדְקוֹתָן	*שָׂדָו	*ڟ۪ڐڔۛؿڵ

^{24.} The table is supplemented by the following forms: בְּשָׂרְכֶם "their flesh"; בְּשַׂרְכֶם "your flesh"; אַדְמַתְכֵם "your flesh"; אַדְמַתְכֵם

^{25.} The plural of "field" is usually fem. in form: שָׁדוֹת (pl. abs.), שְׁדוֹת (pl. const.), שְׁדֹתְיהָ "her fields," though masc. forms also occur: שָׁדֵינו (pl. const.), שָׁדִינו "your fields," ישָׁדֵינו

- * qatal: חָכָם "human"; הְכָם "flesh"; זְקָן "beard"; חָכָם "new"; הָכָם "wise"; יְשָׁר "straight"; גָהָר "wing"; מָטָר "rain"; גָהָר "thirst"; גָהָר "hunger"
- III-vav/yod roots: קָנֶה (in pl.) "face"; קְנֶה "reed"; קְנֶה "field"
- *qatalat: אָדָמָה "earth"; בְּרָכָה blessing"; זְעָקָה "screaming"; קָעָרָה;
 "storm"; אָדָמָה "screaming"; קַלָּלָה "cursing"; הָבָבָה "roaring"
- III-vav/yod roots, only Aramaic-like forms: מְנָת "portion" and קצָת "end"

	*qatil	*qatilat sg.	
	"C	old"	"corpse"
	* <u>d</u> aqin/	* <u>d</u> aqinīm	*nabilat
abs.	זָקו	זְקַנִים	נְבַלְה
const.	151	זקני	נִבְלַת
+1cs	*זְקֵנִי	זְקַנַי	נִבְלָתִי
+2ms	_	זְכֵגְיד	ڹڂۯؚٮٝڬ
+2fs	ג ו כדג,	*זְק <u>ַל</u> ַיִד	٭ڊ ڊ ڔٝؠڗ
+3ms	זְקֵנוֹ*	זְקַנְיו	נִבְלָתוֹ
+3fs	זְקַנְה*	זְקַנְֿיהָ	נִבְלָתָה
+1cp	זְקַנֿנוּ	זְקֵנִינוּ	بند بند بند به
+2mp	_	זִקְנֵיכֶם	* ذِجِלַתְכֶם
+2fp	_	*זִקְנֵיכֶן	*ڊڄ ל ַתְכֶן
+3mp	*إקנֽם	זִקְנֵיהֶם*	נִבְלָתָם
+3fp	זְקַנָז*	*זִקְנֵיהֶן	×ڹڄۯؚ۫ڔ _ٙ ٳ

Table 6.16. **Qatil* Base²⁶

^{26.} The table is supplemented by the following forms: יְרֵכָה "my thigh"; יְרֵכָה "his thigh"; יְרֵכָה "his thigh"; יְרֵכָה "her thigh"; יְרֵכָה "their shoulder." Other nouns of the **qatilat* base do not often occur with suffixes.

- *qatil: qal participles of stative verbs; אָמֵן "true"; חְסֵר "lacking"; מְכֵא "impure"; יְבֵשׁ "dry"; יְבֵח "witness" (Hab 2:3 and יְבֵשׁ "and witness of" [const.] Ps 27:12); יְשֵׁן "old"; בְּבֵר "hungry"
- Aramaic-like form: יִפִיח "witness of" (const.), e.g., Prov 6:19 and passim²⁷
- *qatilat: qal participles of stative verbs; גְנֵבָה "pool"; גְנֵבָה "theft"

orn" "greatness" ur *gudullat גְּדָלָה גָדָלַת
גְּדָלָה נ
<u>אָד</u> ַלַת ו
גְּדֻלְּתִי בְ
* ^ې ې <u>ځ</u> ېر ې
* ^ג ְּדֻלְ <u>ת</u> ָדְ *נ
<u>גְּד</u> ֶלְתוֹ בְ
*ڼؚڗ؇ؚٛڔؚ؋ *٩
*ڼؚڗ؇ؚٛؿڒۮ *٩
*ڼټځېږچ *ځ
* <u>ډ</u> ټږېږې * ^د
*ڼېږېږم *د
* <u></u> ڹ۪ڗ؋ؚٛڔڗٳ *١

Table 6.17. *Qatul, *Qital, Qutul, Qutull Bases²⁸

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^{27.} See Dennis Pardee, "Ypḥ 'Witness' in Hebrew and Ugaritic," VT 28 (1978): 204–13. The form in Proverbs is apparently assimilated to the spelling of the *hiphil* imperfect of נוח, found, e.g., in Prov 29:8: לָפָׁיָהוּ "will blow against (a city)."

^{28.} The table is supplemented by the following forms: קָּרֹבוֹ "my holy one"; קָּרֹבוֹ "his neighbor"; קָּרֹבַי "your holy one"; קָרוֹבַי "my neighbors."

- *qatul: יְתוֹם "pure"; קְרוֹב "holy"; קְרוֹב "near"; יְתוֹם "far"; יְתוֹם "órphan"; גַבה "high
- *qital: גַּכְר "foreigner"; אַלָע "rib"; גַּנְם "grapes"; רַשָה "companion";
 "hair"
- *qutul (see *qitāl): qal infinitives of strong and guttural roots;
 "לום" "dream"²⁹
- *qutullat: אָחָזָה "possession"
- The qatull base is similar to qatul in the masculine singular: אָדֹם "red"; נָקֹד (speckled."

	"one wh	sg./pl. o creates" * <i>yāṣirīm</i>	* <i>qātilt</i> sg. "one who bears" *yālidt ³¹	"one wh	sg./pl. o makes" ' <i>ʿāśiyīm</i>
abs.	יֿצֵר	*יֹאָרִים	ילָדֶת	עֹשֶׂה	עשים
const.	יֿצֵר	יאָרֵי	ילָדֶת	עשה	עשי
+1cs	יאָרִי	יא <u>ָר</u> י*	 גוּלַדְתָּי 	עשֿנִי	עשי
+2ms	ؠػؙڶؙؗ	×ڹڬٚڔٛڔڬ	؞ڹڂؚؚٙڶٮ ٚ ڵڬ	٦ড়ৢ৾ঢ়	₹עֹשֶׂיד
+2fs	،ب أ تلا	*יא <u>ָר</u> יִד	גוּלַדְתַ <i>וּ</i> ִרָ	זעטי*	עשיִד
+3ms	יאָרו	*יֹאָרָיו	יוֹלַדְתּוֹ	עֹשֵׁהוּ	עֹשָׂיו
+3fs	יאָרָה	*نې <u>ټ</u> نې	יוֹלַדְתָּה	עֹשָׂה	עֹשֶׂיהָ∗
+1cp	יּאָבֿנוּ	*יֹצְרֵׁינוּ	*יוֹלַדְה <u>ַ</u> ׁנוּ	עשׁנוּ	יַעַשִינוי*

Table 6.18. *Qātil Base³⁰

29. See Fox, Semitic Noun Patterns, 205.

^{30.} The table is supplemented by the following forms: גאַלְכֶח "your (pl.) redeemer" (cf. אָאַלְכֶח: "wour [sg.] redeemer") רְדָפָי "their pursuer"; גאַלְק "my pursuers"; אָרָרָיָד "your cursers"; רְבָלִתָּד "your judges"; רֹדְפָיָט "their judges"; רְבָלְתָד "one who traded you"; רֹאָט "one who traded you"; רֹאָט "one accepting them" (pausal). There is some variety expressed in words of this base with suffix: note also אָסָפָד "one who sees me"; אָסָפָד "one who sees me"; רֹאָי "one who sees me"; רֹאָי "one who sees me"; רָאָי "those seeing you"; רֹאָי "those seeing her"; רֹאָי "those seeing her"; רֹאָיק "those seeing you"; רֹאָיק "those seeing her"; אָסָפָד

^{31.} Note also the absolute form וֹלֵדָה, reflecting *qatilat.

+2mp	יֹצֶרְכֶם*	*יֹצְרֵיכֶם	יוֹלַדְהְכֶם	—	עשׁיכֶם*
+2fp	יאָרְכָז*	*יאָביכָז	*יוֹלַדְתְּכֶן	—	עשיכָז*
+3mp	*יֹאָרָם	*יֹאָרֵיהֶם	יוֹלַדְתָּם	עֹשָׂם∗	עׂשֵׂיהֶם
+3fp	יאָרָז* *	*יֹאָרֵיהֶן	*יוֹלַדְתָ <i>ּ</i> ן	עשָׂו	עשׁיהֶן*

*qātil: qal participles of active verbs; בהן "enemy"; בהן "priest";
 ישׁפט "judge"

Table 6.19. *Qatāl and Aramaic-Like *QVtāl Bases³²

	* <i>qatāl</i> "lo	* <i>qVtāl</i> sg. "writing"	
	'adān/'adānīm		*katāb
abs.	אָדוֹן	אֲדֹנִים	כְּתָב
const.	אַדוֹן	אֲדֹנֵי	כְּתָב
+1cs	אֲדוֹנִי	אֲדֹנַי	*ּקְתָב ִי
+2ms	אָאַדוֹנְד*	אָדלגיד	לָתָרָד* *
+2fs	אָאַדוֹנֵדְ*	אֲדֹנַיִד	∗ڂؘٮ ٝ ڗڬ
+3ms	אָצדונוֹ*	אֲדֹנְיו	*הְתָבוֹ
+3fs	אָאַדוֹנְה*	אֲדוֹנֶֿיהָ	כְּתָבָה
+1cp	אָאַדוֹנְנוּ	אֲדוֹנֵׁינוּ	؞ڂؗڟڿڗ <u>ۥ</u>
+2mp	*אֲדוֹנְכֶם	אָדוֹנֵיכֶם	_
+2fp	*ېيدانېچړ	אָאַדוֹנֵיכֶן∗	_
+3mp	אָאַדוֹנְם∗	אֲדוֹנֵיהֶם	ذِبْخَم
+3fp	אָאַדוֹנָן*	אָאַדוֹנֵיהֶן∗	*؋ؚؠؚٙڿڒ

^{32.} The table is supplemented by the following forms: לְשׁוֹנִי "my tongue"; לְשׁוֹנָי "your tongue"; לְשׁוֹנָה "his tongue"; לְשׁוֹנָה "his tongue"; לְשׁוֹנָה "our tongue"; יְקָרוֹ "your tongue"; יְקָרוֹ "your tongue"; יְקָרוֹ "your tongue"; יְקָרוֹ "his honor"; note also אֲדֹנִי, a pausal form used also in context, always in reference to God.

- *qatāl: אָשׁלוֹשׁ "three"; לְשׁוֹן "tongue"; qal infinitives absolute (e.g., שָׁמוֹר)
- Aramaic forms: יְהָב "burden"; יְעָף "weariness"; יְקָר "honor"; יְקָב "enumeration"; יְשָׁאָר "deed"; שְׁרָד "war"; שְׁרָד "plaited work"; שְׁאָר "remainder"
- Aramaic-like nomen agentis nouns of the qātōl type are associated with this base; בָּחוֹן "checker"; הָמוֹץ "oppressor"; בָּגוֹדָה "treacherous"³³

	*qatīl	sg./pl.	*qatīl	sg./pl.
	"pro	phet"	"affli	cted"
	*nabī`/>	*nabī [°] īm	*'anīy/*'anīyīm	
abs.	נְבִיא	נְבִיאִים	עָנִי	<u>עַנ</u> יִים
const.	יְרִיא*	נְבִיאֵי	<u>א</u> ְנַי*	<u>ְעַר</u> ִיֵּי
+1cs	יְבִיאִי*	נְבִיאַי		
+2ms	נְבִיאֲדְ	נְבִיאֶֿידְ		
+2fs	י ְרִיא ֵדְ*	נְרִיאַֿיִדְ		<u>ְעַ</u> נִגֶּׁידָ
+3ms	יְנְרִיאוֹ*	נְרִיאָיו		<u>ְעַ</u> נִיֶּו
+3fs	[*] נְרִיאָה	נְבִיאֶֿיהָ		
+1cp	יְנְבִיאֵׁנוּ∗	נְרִיאֵׁינוּ		
+2mp	נְבִיאֲכֶם	נְבִיאֵיכֶם		
+2fp	[*] נְבִיאֲכֶן	[*] נְבִיאֵיכֶן		
+3mp	ּנְרִיאָם*	נְבִיאֵיהֶם		
+3fp	[*] נְבִיאָן	[*] נְבִיאֵיהֶן		

Table 6.20. *Qatīl Bases³⁴

^{33.} See Fox, Semitic Noun Patterns, 184.

יְמִינוֹ ; "my right hand"; יְמִינִוֹ "her right hand"; יְמִינָה "their right hand"; יְמִינָה "innocent of"

- *qatīl: אָאָסִיר "right hand/side"; בְּלִיל "whole"; אָמִין "small"; אָאָסִיר "prisoner"; גָזִיר "prince"; גָזִיר "prince"; גָזִיר "prince"; גָזִיר "prince"; גָזִיר "overseer"; סָבִיב "anound"
- III-vav/yod roots: נָקי "innocent, clean"
- Aramaic-like forms: גְּבִיל "tin, dross"; בְּרִיח "bar"; גְּבִיר "lord";
 "holy of holies"; גְצִיב "fool"; גְצִיב "prefect"; גְצִויל "young boy";
 "fion"

*qatūl sg./pl.		*qatūla	<i>it</i> sg./pl.	./pl. *qitāl sg./pl.	
"one nui	nbered"	"stre	ngth"	"a	rm"
paqūd/	paqūdīm	*gabūrat	/*gabūrāt	*zirā'/	'*zirāʿāt
יפָּקוּד∗	*פְּקָדִים	אְבוּרָה	גְּבוּרוֹת	זְרוֹעַ	זְרוֹעוֹת*
*פְּקוּד	פּקדי	גְּבוּרַת	גְּבָרוֹת	זְרוֹעַ	זְרוֹעוֹת
לפְּקוּדִי∗	*פְּק ַד ַי	גְּבוּרָתִי	אָבוּרׂתַי∗	זְרוֹעִי	זְרוֹעוֹתַי
*פְּקוּדְד	*פְּקֶגָיד	גְּבוּרָתְדָ	גְּבוּרֹתֶׁידָ	זְרוֹעֲדָ	זְרוֹעוֹתֶׁידְ*
יּפְקוּדֵד [ָ]	*פְּקַדַיִד	אְבוּרָתֵדְ	*גְּבוּרֹתַיִד	זְרוֹעֵדְ*	זְרוֹעוֹתַיִדְ*
יּפְקוּדוֹ	פְּקַדִיו	גְּבוּרָתוֹ	גְּבוּרֹתֶיו	זְרוֹעוֹ	זְרוֹעֹתָיו
פְּקוּדָה	פְּקֶדֶׁיהָ	וְּבוּרָתָה	[] גְּבוּרֹתֶֿיהָ	*זְרוֹעָה	זְרֹעוֹתֶֿיהָ
*פְּקוּב <u>ַ</u> ֿנוּ	*פְּקַבֿינוּ	*ڹؚؚ۪בױ ּ רָתֵׁנוּ	*גְּבוּרֹתֵׁינוּ	זְרוֹעֵׁנוּ	יַזרוֹעוֹתֵ <i>ׁינ</i> וּ
פְּקוּדְכֶם	פְּקַדֵיכֶם	גְּבוּרַתְכֶם	[] גְּבוּרׂתֵיכֶם	זְרוֹעֲכֶם∗	זְרוֹעֹתֵיכֶם
[*] פְּקוּדְכֶז	٭ڟؘػؾٮڎڵ	*גְּבוּרַתְכ <u>ֶ</u> ן	[*] גְּבוּרֹתֵיכֶן	* ٳٮڶؠؚۣڿڒ	זְרוֹעוֹתֵיכֶן*
*פְּקוּדָם	פְּקַדֵיהֶם	וְּבוּרָתָם	*גְבוּרֹתָם	זְרוֹעָם	זְרוֹעֹתָם
יּפְקוּדָז*	≮פְּקַדֵיהֶז	אְבוּרָתָן	אְבוּרֹתָן∗	זְרוֹעָז*	זְרוֹעוֹתָז*
	<pre>"one nui *paqūd/* جَهَקוּד *هَקוּד *هَקוּדָה *هَקוּדָה *هَקוּדָה *هَקוּדָה *هُקוּדָה *هُקוּדָה *هُקוּדָה</pre>	"one numbered"*paqūd/*paqūdīm*paqūd/*paqūdīm٦•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••	"one numbered" "stree" *paqūd/*paqūdīm *gabūrat işabūrat *gabūrat işaiţ *eşafirat işaiţ *eşafira	"one numbered" "strength" *paqūd/*paqūdīm *gabūrat/*gabūrāt *ķalīrat/*gabūrāt *ķafīrāt *ķalīrāt *ķafīrāt *ķalīrāt *ķafīrāt *ķalīrāt *ķafīrāt *ķalītāt *ķafīrāt *ķalītāt *ķafīrāt *ķalītāt *ķafīrāt *ķalītāt *ķafīrāt *ķalītāt *ķafītāt *ķalītāt *ķalītāt *ķalītāt *ķalītāt	"one numbered" "strength" "a *paqūd/*paqūdīm *gabūrat/*gabūrāt *zirā'/ iriy iriy iriy iriy iriy iriy iriy iriy

Table 6.21. *Qatūl, *Qitāl Bases³⁵

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^{35.} The table is supplemented by the following forms: בְּרוּדְ "blessed"; בְּרוּדְ "blessed of"; יְצוּעִי "my couch"; יְבוּרָדָ "secret"; יְבוּרָה "my couches" (pausal); בְתוּלֹתֵי (my young women"; יְצוּעָי "my arms" (pausal).

- * qatūl: qal passive participles (אָרוּרָה "cursed" [ms], אָרוּרָה [fs], נוגן
 יְצוּעַ (mp], אָרוּרוֹת (fp]); אָרוּרוֹת "gold"; אָרוּרוֹת "couch";
 יְצוּעַ "mighty"; ערוין "clever"; שָׁבוּעַ "week"
- III-vav/yod roots: qal passive participles: בְּנוֹי "what is built" (ms), בְּנוּיָה (fs), בְּנוּיִם (mp) בְּנוּיוֹת (fp)
- * *qatūlat*: אָמוּנָה "faithfulness"; בְּתוּלָה "young woman"; יְשׁוּעָה
 "salvation"; מְלוֹכָה "kingship, royalty"
- *qitāl (see *qutul): אָלוֹה "deep"; אָלוֹה "God"

"sabbath" bbatt/*šabbatā אַבְּתוֹת שֵׁ		ʻsin" t/*ḫaṭṭa'āt	"request"
	t *hațța?	t/*ḫaṭṭaʾāt	*haaaačat or *haaaāčat
ע שׁ			*baqqašat or *baqqāšat
•	חַטָּאת שִ	חַטָּאוֹת	*בַקָּשָׁה
אַבְּתוֹת שַׁ	חַטַאת שָ	חַטאות	*בַקּשַׁת
יבְּתוֹתַי ∗שׁ	ַםַטָּאתִי שַ	חַטּאותַי	בַקּשָׁתִי
יַבְּתוֹתֶׁידָ *שַׁ <i>י</i>	ײַ <u></u> טָאַתְדָ *שַ	חַטּאוֹתֶידָ	—
יַבְּתוֹתַׁיִדְ *שֵׁ <i>י</i>	ײַקּאַמַך *שׁ	חַטּאַתַיִד	בַקָּשָׁתֵד
זבְּתוֹתָיו שַׁו	חַטָּאתוֹ ∗שַׂ	חַטּאתָו	בַקָּשָׁתוֹ
בְּתוֹתֶׄיהָ שַׁבַּ	*חַטָּאתָה שַׁ	חַטאותֶׁיהָ	*בַקָּשְׁתָה
בְּתוֹתֵׁינוּ *שַׁו	חַטָּאהֵׁנוּ *שַ	חַטּאותֿינוּ	*בַקְשָׁתֵׁנוּ
ַּבְּתֹתֵיכֶם שַׁבַּ	חַטַאַתְכֶם שַׁו	םַטּאותֵיכֶם ו	—
יּבְּתֹתֵיכֶן *שַׁנ	יַםַטַאַתְכָן *שׁ	יַםטאותיכָן אםטאותיכָן	
ובְּתוֹתָם *שַׁו	חַטָּאתָם ∗שַׂ	חַטאותָם	*בַקּשָׁתָם
ַאַבְּתוֹתָז [*] שַ	יַםְטָאתָן *ל	דַטּאותָז*	×≞ؚڄؚۛؗؗۻ۪ڔ
	זּבְּתוֹתַי *שַׁ זּבְתוֹתָׂידָ *שַׁי זּבְתוֹתָידָ *שַׁי זּבְתוֹתָירָ שַׁבַּ בְּתוֹתָינוּ *שַׁנ דְּתֹתֵיכֶם שַׁבַּ זּבְתוֹתָם *שַׁו	חַטָּאתִי שַׁבְּתוֹתַי *שַׁ חַטָּאתִד ישַׁבְּתוֹתָיד אַשַׁ חַטָּאתִד *שַׁבְּתוֹתַיד ישַׁ חַטָּאתִד ישַׁבְּתוֹתַיו שַׁנ חַטָּאתָה שַבְּתוֹתָיה שַב חַטָּאתָכֶם שַׁבְּתוֹתַיכָם שַב חַטַּאתְכֶם ישַבְּתוֹתַיכָם שַב חַטָּאתָכן ישַׁבְּתוֹתַיכָן אַשַ	חַטאותַי חַטָּאתִי שַׁבְּתוֹתַי *שַׂ חַטאוֹתָידְ חַטָּאתִדְ *שַׁבְּתוֹתָידְ חַטאוֹתָידְ זּחַטָּאתִדְ *שַׁבְּתוֹתָידָ חַטאׁתִוּ חַטָּאתֵו *שַׁבְּתוֹתַיו שַׁב חַטאותִיק *חַטָּאתָה שַׁבְּתוֹתָיו שַׁב חַטאותִיכָם אַחַטָּאתָה שַׁבְּתוֹתַינָי זַטאותִיכָם חַטַּאתָכָם שַׁבְּתוֹתַיכָם שַׁבָּ זַטאותִיכָן *חַטַּאתְכָם שַׁבְּתוֹתַיכָן *שַׁבָּ מַטאותִיכָן זַחַטַּאַתְכָן *שַׁבְּתוֹתַיכָן *שַׁב

Table 6.22. *Qattal and/or *Qattal Base(s)³⁶

More Examples

- *qattalt: יַלֶּפֶת "wart"; יַלֶּפֶת "scabs"; צַרְׁעַת "leprosy
- *qattalat: בַּלְהָה "terror"; בַּצְרָה "drought"; הַטָּאָה "sin"

^{36.} The table is supplemented by the following forms: בַקרת "care of."

Table 6.23. Qal, Piel, Hiphil, Niphal, Pual, and Hophal of Strong Roots

			שמר			
			qåțal			
	qal	piel ³⁷	hiphil	niphal	pual	hophal
3ms	שָׁמַר	ישִׁמֵר∗	*הִשְׁמִיר	נִשְׁמַר	⁺שֻׁמַר	⁺הָשְׁמַר
3fs	שָׁמְרָה	*שִׁמְרָה	*הִשְׁמִירָה	ינִשְׁמְרָה*	ישֻׁמְרָה∗	*הְשְׁמְרָה
2ms	<i>שָׁמַ</i> ׂרְתָ	*שָׁמַּרְתָ	[*] הִשְׁמַּרְתָּ	נִשְׁמַּרְתָ	*ڟۣ۪ڟٟڔڟ	ָּקשְׁמַ֫רָתָּ *הָשְׁמַ <u>ּ</u> רָתָ
2fs	*שָׁמַרְתְ	*שָׁמַּרְתָ	[*] הִשְׁמַׁרְתְ	ינִשְׁמַרְת <u>ָ</u>	ישֻׁמַרְתְּ∗	ָּקשְׁמַרְת <u>ָ</u>
1cs	שָׁמַּרְתִּי	*שָׁמַּרְתִּי	*הִשְׁמַ <u></u> רְתִּי	[*] נִשְׁמַׂרְתִּי	*שֻׁמַּרְתִּי	*הָשְׁמַ֫רְתִּי
3cp	שָׁמְרוּ	ישִׁמְרוּ*	*הִשְׁמִירוּ	נִשְׁמְרוּ	ישָׁמְרוּ*	*הְשְׁמְרוּ
2mp	שְׁמַרְתֶּם	*שָׁמַּרְתֶּם	*הִשְׁמַרְתֶּם	נִשְׁמַרְתֶּם	*שֻׁמַּרְתֶּם	ָּקִשְׁמַרְתֶּם*
2fp	*שְׁמַרְתֶּז	[*] שִׁמַּרְתֶּז	[*] הִשְׁמַרְתֶּן	[*] נִשְׁמַרְתֶּז	*שֻׁמַּרְתֶּז	ָּהָשְׁמַרְתָּז*
1cp	<u>שָׁמַ</u> ׂרְנוּ	יִשָׁמַּרְנוּ*	*הִשְׁמַ֫רְנוּ	ינִשְׁמַׂרְנ וּ	ישֻׁמַּרְנוּ∗	*הָשְׁמַׁרְנוּ
			yiqtol			
	qal	piel	hiphil	niphal	pual	hophal
3ms	יִשְׁמֹר	יִשַׂמֵר∗	יַשְׁמִיר*	יִשָּׁמֵר*	יִשָׂמַר∗	יָשְׁמַר*
3fs	תִּשְׁמִר	*תְּשַׁמֵר	אַשְׁמִיר∗	ּ תִּשָּׁמֵר	*הְּשָׁמַר	אַּמְשַׁר*
2ms	תִּשְׁמִר	⁺תִּשַׂמֵר	אַשְׁמִיר∗	*بٙڟ۪ؿڔ	*תְּשָׁמַר	זּתָּשְׁמַר∗
2fs	*תִּשְׁמְרִי	*אִּשַׁמְרי	יּתַּשְׁמִירִי	*תִּשֶׁמְרִי	*תְּשֶׁמְרִי	*הָּשְׁמְרִי
1cs	אֶשְׁמֹר	אָאַשַׁמֵר*	אַשְׁמִיר∗	אָשָׂמֵר∗	אֲשֻׁמַר*	אָשְׁמַר∗
3mp	יִשְׁמְרוּ	יִשַׁמְרוּ*	<u>יַ</u> שְׁמִירוּ	יִשָּׁמְרוּ*	יְשָׁמְרוּ*	יִשְׁמְרוּ
3fp	*תִּשְׁמֹרְנָה	³⁸ אְשַׁמֵּׁרְנָה	_	*ڟؚ۪ڟ۪ٟ۫ڎ ۪ ڋ	*תְּשָׁמַרְנָה	_
2mp	ּתִּשְׁמְרוּ	•אִשַׁמְרוּ	יּתַּשְׁמִירוּ	אַ שָּׁמְרוּ	*תְּשָׁמְרוּ	יָּקשָׁמְרוּ *
2fp	* <i></i> תִּּשְׁמִׂרְנָה	*ڟ۪ڟؘۣڔؠ۬ڡ	_	* <u></u> ڟ۪ٙۻٟٚڟٟ۫ڔڋؚؗؗؗ	[*] תְּשֻׁמַּרְנָה	_
1cp	נִשְׁמֹר	⁺נְשַׂמֵר	ינַשְׁמִיר∗	*ڊ۬ڟ۪۪ؿ٢	*נְשָׁמַר	נְשְׁמַר∗

^{37.} In the *piel*, only a few roots evidence the elision of one of the geminated continuant consonants and shewa: בְּקָשׁוּ "they filled"; קְנָנוּ "they made nests"; בְּקָשׁוּ "they sought." The unattested forms of the verb are based on the relatively well-attested forms of other verbs. In particular, note בְּמֵׁדְנָה "teach!"; הַאָּבְוָדָה "give ear!"; note also the two alternative forms of the *niphal* inf. const. הַלְּחֵם הוּהֹלָחֵם "to fight."

^{38.} Pausal forms often evidence a *patakh* in the accented syllable (e.g., הְרַשָּׁשְׁנָה "they will crush" Isa 13:18).

Short-	yiqtol and v	vayyiqtol ³⁹
1	1 . 1 .1	

	qal	piel	hiphil	niphal		
3ms			<u>יַ</u> שְׁמֵר*	[*] ٳؚ؞ؚٛڟ۪۪۫ڟ۪٢		
3fs			*תַּשְׁמֵר			
2ms			∗תַּשְׁמֵר			
1cs			וְאַשְׁמִיר∗			
1cp			⁺נַשְׂמֵר			
			Imperativ	ve		
	qal	piel	hiphil	niphal	pual	hophal
ms	שְׁמֹר	⁺שַׁמֵר	*הַשְׁמֵר	הּשְּׁמֶר	—	—
fs	ישׁמְרִי∗	⁺שַׁמְרִי	*הַשְׁמִירִי	השָׁמְרִי	_	_
mp	שִׁמְרוּ	ישַׁמְרוּ∗	*הַשְׁמִׁירוּ	הִשָּׁמְרוּ	_	_
fp	⁺שְׁמְׂרְנָה	⁺שַׁמֵּׁרְנָה	*הַשְׁמֵׁרְנָה	—	_	_
			Infinitives	8		
const.	שְׁמֹר	⁺שַׁמֵר	*הַשְׁמִיר	*ڹڟ۪۪ٚ۫ۿ۪٢	—	*הָשְׁמַר
abs.	שָׁמוֹר	ישַׁמֵר∗	⁺ַהַשְׁמֵר	⁴⁰ הּשָּׁמֵר	ישֻׁמּׂר∗	*הְשְׁמֵר
			Participle	es		
ms	שׂמֵר	*מְשַׂמֵר	∗מַשְׁמִיר	*ڹؚؗؗۻ۪ڝؚ	*ڟ۪ۻۣ۬ڟ۪	*מְשְׁמְר
fs	*ש۬מֶׂרֶת	*ڟ۪ڟۣۿ۪ڕٮۘۘۘؗؗ	*ڡؘٟؗڟ۪ۿۣڕٮۘۘ	[*] נִשְׁמְרָה	*מְשֶׁמְרָה	*מ۪ۻ۪ٚؿ۪ڕٮ
mp	שׂמְרִים	מְשַׁמְרִים	*מַשְׁמִירִים	נִּשְׁמָרִים∗	*מְשָׁמְּרִים	אָשְׁמָרִים∗
fp	שׂמֽרוֹת∗	*מְשַׁמְרוֹת	אַמַשְׁמִירוֹת∗	ּנִשְׁמְרוֹת	*מְשָׁמְרוֹת	*מְשְׁמְרוֹת

40. Also הִשָּׁמֹר and גִּשָׁמֹר.

^{39.} This portion of the table is supplemented by the following forms: וָאַשְׁמִיד "I destroyed" (Amos 2:9); נַשְּׁמֵר "let us leave over" (1 Sam 14:36) and וַנַּקְרֵב "we brought near" (Num 31:50); וַיָּלֶשֶׁמָ "he fought" (Exod 17:8). In relation to the following categories, note the alternative forms to the feminine singular *niphal* (אָנָשְׁמֶרָת), *pual* (מְשָׁמֵרָת)), pual (מְשָׁמֵרָת) participles.

INTERMEDIATE BIBLICAL HEBREW GRAMMAR

Table 6.24. *Qal, Piel,* and *Niphal* of III-Guttural and III-*Aleph* Roots⁴¹

	μ	של	ж	מצ	×'	מל
			qåţal	1		
	qal	piel	qal	niphal	qal	piel
3ms	שָׁלַח	שָׁלַח	מָצָא	נִמְצָא	מְלֵא	מִלֵּא
3fs	שָׁלְחָה	שִׁלְחָה	מְצְאָה	נִמְצְאָה	מְלְאָה	*מִלְאָה
2ms	<i>שָׁלַ</i> חְתָּ	שָׁלַּחְתָ	מְצְׂאתָ	ڋڹؚڟ۪ؿٚ ؉ ڹ	מְלֵאת	מִלֵּאתָ
2fs	*שְׁלַֿחַתְ	*שָׁלַּחַת	מְצָאת	נִמְצֵאת	*מְלֵאָת	*מִל ֵא ת
1cs	<i>۬</i> שָׁלַׂחְתִּי	שִׁלַּ חְתִּי	מָצְׂאתִי	נִמְצֵׁאתִי	מְלֵאתִי	מִלְּאַתִי
3ср	שָׁלְחוּ	שׁלְחוּ	מְצְאוּ	נִמְצְאוּ	מְלְאוּ	מִלְאוּ
2mp	<i>ׁ</i> שְׁלַחְתֶּם	שָׁלַּחְתֶּם	מְצָאתֶם	גָמְצֵא <u>ת</u> ָם*	אְלֵאתֶם∗	מִלֵּאתֶם
2fp	*שְׁלַחְתֶּן	*שִׁלַּחְתֶּן	מְצָאתֶן	נְמְצֵא <u>תֶ</u> ן*	יְמְלֵאתֶז∗	אַמָלאָתֶז∗
1cp	<u>שָׁלַ</u> קְנוּ	<i>שׁלַּ</i> חְנוּ	מְצְׂאנוּ	[*] נְמְצֵׂאנוּ	*מְלֵאנוּ	מִלֵּאנוּ
			yiqto	1		
	qal	piel	qal	niphal	qal	piel
3ms	יִשְׁלַח	יְשַׁלַח	יִמְצָא	יִמְצֵא	*יִמְלָ א	יְמַלֵּא
3fs	*תִּשְׁלַח	הְשַׁלַח	תִּמְצָא	ظظتم	*תִּמְלָא	הְמַלֵּא
2ms	הִּשְׁלַח	הְשַׁלַח	תִּמְצָא	٭ <i>ۻ</i> ڟؚؿ؉	* <i></i> תִּמְלָא	הְמַלֵּא
2fs	*תִּשְׁלְחִי	*הְּשַׁלְּחִי	אָמ ָ אָאי*	תִּמְצְאִי	[*] תִּמְלְאָי	[*] תְּמַלְאָי
1cs	אֶשְׁלַח	אֲשַׁלַח	אֶמְצָא	*אִמְצֵא	אֶמְלָא*	אֲמַלֵּא
3mp	יִשְׁלְחוּ	יְשַׁלְּחוּ	יִמְצְאוּ	יִמְצְאוּ	יִמְלְאוּ	יְמַלְאוּ
3fp	<u></u> תִּשְׁלַחְנָה	אַשַׁלַּקנָה	ۺؚڟ۪ڿ۫۫ؗۿڵ	ת ִמְאָׁאינָה	[*] ۺؚڟ۪ڮٚٛؗۿڋؚۻ	ְּתַלֶּאנְה
2mp	ּתִּשְׁלְחוּ	הְשַׁלְ ח וּ	תִּמְצְאוּ	*תִּמְצְאוּ	[*] תִּמְלְאוּ	*הְּמַלְאוּ
2fp	<u></u> תִּשְׁלַחְנָה	*ڟ۪ڟؚٚڟؚ	*ۺؚؚڟ۪ۑؚٚؗؗؗ <u>؇</u> ٳ	[*] תִּמְאֶׁאינָה	[*] ۺؚڟ۪ڮٚٛؗۿڋؚڡ	*ڟؚ۪ۿؚۿڎ <u>ؚ</u>
1cp	נִשְׁלַח	∗נְשַׁלַּח	נִמְצָא	٭ڹڟؚ۫ ٞ ػ؇	ּ נִמְלָא	נְמַלֵּא

^{41.} The table is supplemented by this form: שָׁכַׁחַהְ "you forgot" (Isa 17:10).

			Imperat	ive		
	qal	piel	qal	niphal	qal	piel
ms	שָׁלַח	שַׁלַּח	מְצָא	[*] הִמְצֵא	*מְלָא	מַלֵּא
fs	ישִׁלְחִי∗	⁺שַׁלְּחִי	מִצְאָי*	ָהמָצָא ִי	מִלְאָ י *	*מַלְאָי
mp	שִׁלְחוּ	שַׁלְּחוּ	מִצְאוּ	*הִמְּצְאוּ	מִלְאוּ	מַלְאוּ
fp	*שְׁלַּחְנָה	*ڟۣڂؚؚٛؗؗؗ <mark></mark> ۻۭڎؚۭؗ	ַמְצָׂאן	*ڹؚ؋۪۪ۑؚٚٛ۫ۼڹؚۛؗ	*ڟ۪۪ڮٚ ٛ ؗؗؗؗۼۮؚؚؗؗ	_
			Infinitiv	ves		
const.	שְׁלוַח	שַׁלַּח	מְצֹא	הִמְּצֵא	מְלֹאֵת	מַלְאוֹת and מַלֵּא
abs.	שָׁלׂחַ	שַׁלַח	*מְצוֹא	*הؚڟ۪۪ؿؚؚؚؚۣ	*מְלאֹ	<u>מַלָּא</u> *
			Particip	les		
	qal	piel	qal	niphal	qal	piel
ms	שׁלֵח	מְשַׁלֵּח	מוֹצֵא	נִמְצָא	מְלֵא	מְמַלֵּא
fs	ישׁלַחַת∗	*מְשַׁלַּחַת	מׂצֵאת	נִמְצָאָה	*מְלֵאת	∗מְמַלֵּאת
mp	שׁלְחִים	מְשַׁלְּחִים	מׁצְאִים	נִמְצְאָים	מְלֵאִים	מְמַלְאָים
fp	שׁׁלְחוֹת*	אְשַׁלְּחוֹת∗	מׁצְאוֹת	נִמְצָאוֹת	אְלֵאוֹת∗	מְמַלְאוֹת

		II-vav: קום "to rise"		II-vav: בוא "to enter"	II- <i>vav</i> : כון "to establish"
			qåṭal		
	qal	hiphil	hophal	hiphil	niphal
3ms	קָם	הֵקִים	הוּקַם	הֵבִיא	נְכוֹז
3fs	<u>ק</u> ָמָה	הֵלֵּימָה	_	הֵבִֿיאָה	<i>ָ</i> ۮؘוֹנָה
2ms	حؘٟڟ۪ڟ	<u>ה</u> ַקַמֿתָ		הַבָּאַתָ	_
2fs	*קַמְתְ	*הֲקֵמֹת	—	הֵבָאַת*	_
1cs	לַמְתִּי	הֲקַמֿתִי	—	הַבַּאתִי	_
3ср	לָמוּ	הַלְּימוּ	*הוּקְמוּ	הַבְּיאוּ	נְכֿוֹנוּ
2mp	קַמְתֶּם	*הֲקֵמֹתֶם	_	הֲבֵאתֶם	_
2fp	*طَفْقا	*הַקַמֹתֶן	—	*הַבַאתֶן	_
1cp	*לַמְנוּ	<u>ה</u> קמֿנוּ	—	הֵבָאנוּ*	_
			yiqṭol		
	qal	hiphil	hophal	hiphil	niphal
3ms	יָקוּם	יָקים	*יוּקַם	יָביא	יִבּוֹז
3fs	תָּקוּם	*תָּקִים	*תּוּקַם	תָּבִיא	תכון
2ms	תָּקוּם	תָּקִים	—	תָּבִיא	תכון
2fs	הַלְּוּמִי	תָּלָימִי	—	*תְּב <u>ִ</u> יאִי	∗תּכּֿנִי
1cs	אָקוּם	אָקים	—	אָבִיא	אַכּוֹן∗
3mp	יָקֿוּמוּ	יָלָימוּ	יוּקְמוּ*	יָבִֿיאוּ	יִבֿנוּ
3fp	*بَرْجْمِدָה	*תָּלִימְנָה	_	תְּבִיא <u>ֶ</u> ׁינָה	_
2mp	תָּלָּוּמוּ	תָּלָימוּ	_	תָּב <u>ִ</u> יאוּ	∗תִּכֿנוּ
2fp	*תָּלְמְנָה	תָּלִימְנָ ה		*ڟ۪ڋڹڿ۫ڹڋ	_
1cp	נְקוּם	גָקִים*	_	נְבִיא	≮נ⊂וֹז

Table 6.25. Qal, Hiphil, Niphal, and Hophal of II-Vav Roots⁴²

42. The table is supplemented by the following forms: אָשָׁרְזָ "they will return" (Ezek 16:55); אָשָׁר "let it return" (Num 25:4); הַשָּׁבתָם "you returned" (1 Sam 6:8); "they were hurled" (Jer 22:28); יוּמַת "they will [not] be put to death" (1 Sam 11:13); יוּמָד "they will [not] be put to death" (2 Kgs 14:6); יוּמָד "they will [not] be put to death" (2 Kgs 14:6); מוּשָׁב ים "those brought (Exod 10:8); מוּשָׁב יוֹם "one to be put to death" (1 Sam 19:11); מוּמָת "those brought back" (Jer 27:16); הַמֹלו (Jer 4:4); הַמֹלו (Gen 34:17); הַמֹלו (Gen 34:17); הַמוֹל (Gen 17:13 [niph. inf. abs.]).

6. CHARTS OF NOUNS AND VERBS

		Sł	nort- <i>yiqtol</i>		
	qal	hiphil	hophal	hiphil	niphal
3ms	*יָקׂם	יָקם		—	—
3fs	*תָּלִם	*תָּקֵם		_	_
2ms	*תָּקׂם	יּתָּקֵם∗		_	_
		1	wayyiqtol		
3ms	וַיָּקָם	<u>וּ</u> לָּקָם	*וַיּוּקַם	וַיָּבֵא	<u>וַיִּכוֹן</u>
		Iı	mperative		
	qal	hiphil	hophal	hiphil	niphal
ms	קוּם	הָקֵם		הָבֵא	הַכּוֹז
fs	לּוּמִי	*הָלִּימִי		הָבִֿיאָי	—
mp	ל ו מוּ	הָלִּימוּ		הָבִֿיאוּ	הכנו*
fp	קׂמְנָה	_		—	_
		Ι	nfinitives		
	qal	hiphil	hophal	hiphil	niphal
const.	קוּם	הוֹשִׁיב		הָבִיא	יהבוֹז∗
abs.	קום	∗הוֹשֵׁב		הְבֵא	יִהִבּוֹז*
		P	Participles		
ms	*קָם	מוֹשִׁיב	*מוּקָם	מֵבִיא	ڊ د نړ
fs	קָמָה	*מוֹשֶׁבֶת	_	_	נְכוֹנָה
mp	קָמִים	*מוֹשִׁיבִים	*מוּקָמִים	מְבִיאָים	נְכֹנִים
fp	*קְמוֹת	*מוֹשִׁיבוֹת	*מוּקָמוֹת	_	יְּכְנוֹת

Table 6.26. Verb Forms of III-Vav/Yod Roots⁴³

			גלה			
	aal	piel	qåţal hiphil	miph al	bust	hophal
2	qal		hiphil	niphal	pual	hophal
3ms	גָּלָה	גּּלָה	הֶגְלָה	נִגְלָה	* <u>ג</u> ּלָה	הְגְלָה
3fs	גְּלְתָה	גּּלְתָה	*הֶגְלְתָה	נִגְלְתָה	גַּלְתָה	⁴⁴ הְגְלְתָה
2ms	גְּלִיתָ	*גּלִי ת	הִגְלִיתָ	*נִגְלֵיתָ	* <u>ڊ</u> ڏית	*הָגְלֵיתָ
2fs	גְּלִית∗	גּלִית	יָהְגְלִ ית ∗	יּנְגְלֵית*	<u>אַל</u> ִית	יָהְג <u>ָל</u> ית∗
1cs	גְּלִיתִי	גּלְיתִי	הִגְלֵיתִי	נִגְלֵיתִי	אַלֵּיתִי	*הָגְלֵיתִי
3cp	גְלוּ	גלו	הגלו	נִגְלוּ	יגלו	הָגְלוּ
2mp	אְּלִיתָם	אָּלִיתָם∗	הִגְלִיתֶם	גנְג ֵי תָם∗	אַלֵּיתָם∗	ָהְגְלֵיתָם*
2fp	≮ְּלִיתֶן	≮גּלִיתֶן	ָהגְלִיתָז*	< <u>גְּל</u> ֵיתָן *	∗גַּלֵיתָן	ָּהְגְלֵיתָז*
1cp	*גְּלִינוּ	*גּלִינוּ	*הִגְלִינוּ	נִגְלִינוּ	<u>אַל</u> ָינוּ	ָהְגְלֵינוּ*
			yiqtol			
	qal	piel	hiphil	niphal	pual	hophal
3ms	יִגְלֶה	י <u>ְג</u> ּלֶה	<u>יַגְלֶה</u> *	יִגְּלֶה	יְגָלֶה*	יָגְלֶה*
3fs	*תִּגְלֶה	*ڟ۪ٙڒٙڿؙٮ	*תַּגְלָה	<i>תּגָּ</i> לָה	*ڟ۪ڋڟ	*ת۪ٙڋڮؚٝؗؗؗؗؗ
2ms	*תִּגְלֶה	<u></u> תְּגַלֶּה	*תַּגְלָה	*بٙؠڋ۪ڿؚٛؗٚؗؗؗؗ	*ڟ۪ؠٚڮٛۊؚٚٛؗؗ	*תְּגְלֶה
2fs	*תָּגְלִ י	הְנַלִי	*תַּגְלִי	[*] הִּגָּלִי	*ת <u>ְג</u> ָלִי	*תָּגְלִי
1cs	אֶגְלֶה	אָגַלֶּה	אַגְלֶה*	אָגְלָה*	א <u>ָא</u> ָגָלָה*	אָגְלֶה*
3mp	יִגְלוּ	יְגַלּוּ	<u>יַגְלוּ</u> *	יִגָּלוּ	י <u>יג</u> לו *	יְגְלוּ*
3fp	[*] תִּגְלֶׂינָה	[*] תְּגַלֶּינָה	[*] תַּגְלֶינָה	[*] תִּגְּלֻ֫ינְה	[*] תְּגָ לֶׂינָה	*תָּגְלֶינָה
2mp	*תִּגְלוּ	*הְגַלוּ	יתַגְלוּ *	*بَرَيْحُهُ	*תְּגָלוּ	*תְּגְלוּ
2fp	[*] תִּגְלֶׂינָה	[*] תְּגַלֶּינָה	[*] תַּגְלֶינָה	[*] תִּגְּלֻ֫ינָה	[*] תְּגָ לֶינָה	*ڟ۪ٙؠٚڮٝڹڋؚۘؗ
1cp	ּנ ְגְלֶה	*נְגַלֶּה	<u>ַנ</u> ְגָלֶה*	[*] נִגְּלֶה	[*] נְגֻּלֶּה	*נְגְלֶה

^{43.} The table is supplemented by these forms: וְאֵׁפֶוְ "I turned"; וַגַּׁפֶן "we turned." 44. Note also הָגְלְת

		Shor	t-yiqtol and	wayyiqṭol		
	qal	piel	hiphil	niphal	pual	hophal
3ms	ڹٞؗۑۯ	יְגַל	ڹۣٞؗۑۯ	יִגְּל*		
3fs	*ۻٙ۬ڋڔ	וַתְּגַל	*ڟؘ۪ڋڔ	ښېږر		
2ms	*ۺؚٙۑۯ	הְּגַל	٭ڟؘ۪ڋڔ	*ښڋ		
1cs	*ٳۿؘۑڶ	_	_	_		
1cp	*ٳڐؘؚۑۛڒ	_	_	_		
			Imperati	ve		
	qal	piel	hiphil	niphal	pual	hophal
ms	גְּלֵה	*גַּלֵה / גַּל	*הַגְלֵה	הִגְּלֵה		
fs	∗לְּלִי	גַּקי	*הַגְלִי	[*] הּגָּלִי		
mp	יְגְלוּ∗	אַלּוּ	*הַגְלוּ	הִגְּלוּ		
fp	[*] גְּלֶׂינָה	*גַּלֶּינָה	*הַגְלֶינָה	[*] הִגְּלֶׂינְה		
			Infinitive	es		
	qal	piel	hiphil	niphal	pual	hophal
const.	גְּלוֹת	גַּלּוֹת	הַגְלוֹת	הִגְּלוֹת		
abs.	גְּלֹה	*גַּלֹה	*הַגְלֵה	נִגְלֹה		
			Participl	es		
ms	גֹּלֶה	מְגַּלֶּה	*מַגְלֶה	ינגְלֶה*	*מְגָלֶה	*מֻגְלֶה
fs	אֹּלָה∗	*מְגַּלְּה	*מַגְלָה	[*] נִגְלָה	מְגֵּלְה	*מֻגְלָה
mp	גּלִים	*מְגַּלִּים	*מַגְלִים	≮נְגְלִים	*מְגָלִים	מַגְלִים
fp	גׂלוֹת∗	אמְגַלּוֹת∗	∗מַגְלוֹת	נִגְלֹת	*מְגֵלוֹת	אַגלות∗

			QUI			
			qåțal			
	qal	piel	hiphil	niphal	pual	hophal
3ms	עָשָׂה	עִשָׂה∗	*ۑٙۑ۪ڟؘ۪۬ٚٚٚٚ	נַעֲשָׂה	אַשָּׂה∗	*ה۪ۑۭڣ۪
3fs	עָשְׂתָה	עִשְׂתָה∗	*ۑٙۑؚؗؗۻؘ۪ڔؚۘؗؗؗ	נֶעֶשְׂתָה	אַטָּשְׂתָה∗	*הָעָשְׂתָה
2ms	עָשִּׁיתָ	אַשָּׁיתָ*	גֶּעֱשִּׁיתָ*	*נַעֲשֵׂיתָ	יָעַשֵּׁיתָ*	*הְעֲשֵׁיתָ
2fs	עָשִׂית	עִשִׂית∗	גְּעֶשִׂית*	<u>נ</u> נְעַשִׂית*	עשׂית∗	*הְעֲשֵׂית
1cs	עָשִּׁיתִי	יּעִڟָּׂיתִי*	י <u>ָה</u> ְעֶשִׁיתִי	*נַ <u>ע</u> ַשִּׂיתִי	עַשַּׁיתִי	*הְעֲמֵׂיתִי
3ср	יַשׂי	עשו	*הֶעֱשׂוּ	נַעֲשׂוּ	יעשו∗	יָהְעֲשׂוּ*
2mp	אַשִׂיתֶם	עּשִׂיתֶם∗	*הֶעֱשִׂיתֶם		עַשֵׂיתָם∗	ָהְעֲשֵׂיתֶם*
2fp	עֲשִׂיתֶן	עִשִׂיתֶן∗	ָהֶעֱשִׂיתֶז*		עַשֵׂיתָן∗	ָה ְעֲשֵׂי תֶז*
1cp	ַטְשִׂינוּ	•ּעִשִּׂינוּ	ָהֶעֱשִ ּׁינוּ	<u>נ</u> עֲשֵׂינוּ*	עַשַּׁינוּ∗	*ה۪ۑٟڟۣ۫ڹۮ
			yiqṭol			
	qal	piel	hiphil	niphal	pual	hophal
3ms	<u>יִע</u> ָשָׂה	יְעַשֶׂה*	<u>יַע</u> ָשָׂה*	יֵעָשָׂה	יְעָשֶׂה*	יִעֲשָׂה*
3fs	תַּעֲשָׂה	*תְּעַשֶּׂה	*תַּעֲשָׂה	תֵּעָשֶׂה	*ڟ۪ۑۿ	*ڟ۪ٙۑٛڟ۪۬
2ms	תַּעֲשָׂה	*מְעַשֶׂה	*תַּעֲשָׂה	*מֵּעָשָׂה	*תְּעָשֶׂה	*תְּעֲשֶׂה
2fs	תַּעֲשִׂי	*אְעַשָּׂי	י <i>ׂ</i> שִׁאַיּ	יּהֵעָשִׂי	*אְּעָשִׂי	יּתְּעֲשִׂי
1cs	אָטֱשָׂה	אֲעַשָּׂה*	*אַעֲשָׂה	אַעָשָׂה*	*אֲעֻשֶׂה	אָעֱשָׂה*
3mp	יַעַשׂו	יְעַשׂוּ	<u>יִשְ</u> שׁוּ	יַטָשׂוּ	יְעָשוּ*	יִשָּיָי [*]
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Table 6.27. Verb Forms of I-Guttural and III-Vav/Yod Roots⁴⁵

טשה

3fp	ײַּעֲשָ ָ ינָה	[*] ڟ۪؆ؚڛٚٛڹڎؚٮ	*תַּעֲשֶׂינָה	ײַּעָ שָׂינָה	'nָעָשָ ָ ׁינָה	[*] תִּעֲשֶׂינָה
2mp	ײַעשוּ	יְּתַשׁוּ*	<u>י</u> תַּעֲשׂוּ	*הֵּעָשׂוּ	יתְעָשׂוּ*	יִתְעֲשׂוּ*
2fp	<u>תַּעֲ</u> שָּׁינָה	[*] תְּעַשֶּׂינָה	ײַּעֲŵֶׂינָה*	*ڟۣۑٚڜ۬ڹڋۻ	'nָעָשָ ָ ׁינָה	[*] תִּעֲשֶׂינָה
1cp	נַעֲשָׂה	יְנְעַשֶׂה*	*נַעֲשָׂה	*ڍۑؚ۬ڜؘ۬ؗؗ	יְנְעָשֶׂה*	*נְעֲשֶׂה
		Shoi	rt- <i>yiqtol and</i>	wayyiqṭol		
3ms	יַֿעַשׂ	יְעַשׂ*	<u>יֿע</u> שׂ*	<i>שָׁי</i> ֵי*		
3fs	<u>שׁע</u> ַשׂ*	ֿהְעַשׂ*	^י תַׁעַשׂ*	הֵעָשׂ		
2ms	שַׁעַשׂ	[*] הְעַש	<u>שׁ</u> אַשׁ*	'nתֵעָשׂ∗		
1cs	וְאַׁעַשׂ	וְאֲעַשׂ	יְאַעַשׂ*	ֿוָאֵעָשׂ		
1cp	וַנַּעַשׂ	יְנְעַשׂ*	*ڏِעַשׂ	<u>װ</u> ַנְּעָשׂ		
			Imperati	ve		
	qal	piel	hiphil	niphal	pual	hophal
ms	אַשֵׂה	∗עַשֵׂה	*הַאֲשֵׂה	*ؿۑ۪ٚۑ۬۬ؗؗؗؗؗؗؗؗ		
fs	ַטְשִׂי	עַשָּׂי*	*הַעֲשִׂי	*הֵעָשִׂי		-
mp	ַטַשוּ	יעשוי*	יַהַעֲשׂוּ	יֵהַעָשׂוּ*		
fp	[*] עֲŵֶׂינָה	עַשָּׂינָה∗	ײַשְׁינָה*	*הֵעָשֶּׁינָה		
			Infinitive	es		
	qal	piel	hiphil	niphal	pual	hophal
const.	אַשׂות	עשׂות∗	אַהַעֲשׂות∗	הַעָשׂוֹת	אַשׂות∗	
abs.	עָשׂה	∗עַשֵׂה	*הַעֲשֵׂה	*הֵעָשׂה		
			Participl	es		
ms	עשה	*מְעַשֶׂה	*מַעֲשֶׂה	נַעֲשֶׂה	*מ۪ۑؚؗۑٛ۬ה	*מ۪ؠٟۑ؋
fs	עֹשָׂה	*מְעַשָּׂה	*מַעֲשָׂה	*נַעֲשָׂה	*מְעֻשָׂה	*מְעֲשָׂה
mp	עשים	*מְעַשִּׂים	*מַעֲשִׂים	נַעֲשִׂים	אְעָשִׂים∗	*מְעֲשִׂים
fp	עשות	אְעַשׂוֹת∗	*מַעֲשׂוֹת	נַעֲשׂות	אַמְשָׁוֹת∗	אִמְעֲשׂוֹת∗

	ישׁב :I-vav/yod "to dwell"			II-vav: שׁוֹב "to return"		<i>ישב</i> ה :vod pture"	
				<i>ațal</i>			
	qal	hiphil	niphal	qal	hiphil	qal	niphal
3ms	יָשַׁב	השִׁיב	נוֹשֵׁב*	שָׁב	הֵשִׁיב	שָׁבָה	נִשְׁבָּה
3fs	יִשְׁבָה	*הוֹשִּׁיבָה	נוֹשְׁבָה	שָּׁבָה	*הֵשָּׁיבָה	לָשָׁרְתָה∗	[*] נִשְׁבְּתָה
2ms	ڹؚڟؚ۫ڄڔٙ	*הוֹשַּׁבְתָּ	¥נוֹשַּׁבְתָּ	שַׁבְתָ	הֲשֵׁבֿתָ	שָׁבִֿיתָ	[*] ڹڟ۪ڎؚڹڔ
2fs	יָשַׁבְתְ	הוֹשַׁבְתְּ*	¥נוֹשַׁבְתְ	יֿשַׂרְתְּ∗	_	*שָׁבִית	יּנִשְׁבֵית*
1cs	יְשַׂבְתִּי	הוֹשַּׁבְתִּי	<i>ַ</i> נוֹשַּׁרְתִי*	שַׂבְתִּי	הֲשָׁבֿתִי	*שָׁבִֿיתִי	[*] ּנִשְׁבֵּׁיתִי
3cp	יָשְׁבוּ	השִׁיבוּ	נוֹשְׁבוּ	ڟ۪ڎ	הַשָּׁיבוּ	שָׁבוּ	נִשְׁבּוּ
2mp	יְשַׁבְתֶּם	הוֹשַׁבְתֶּם∗	*נוֹשַׁבְ <u></u> תָּם	שַׁבְתֶּם	הְשֵׁבֹתֶם	שְׁבִיתֶם	[*] נִשְׁבֵּיתֶם
2fp	יְשַׁבְתֶּן*	*הוֹשַׁבְתֶּן	נוֹשַׁרְ <u></u> תֶּז*	ישַׁבְתֶז∗	*؋ؚڝ۬۬ڂؗؗڽڒ	לְשְׁבִיתֶן∗	[*] נִשְׁבֵּיתֶן
1cp	יָשַּׁבְנוּ	*הוֹשַּׁבְנוּ	<i>ּ</i> נוֹשַּׁבְנוּ	שַׁבְנוּ	הֱשִׁיבֿנוּ	יָשָׁבִ ֿינוּ *	יִנִשְׁבֵּׁינוּ*
			у	riqțol			
	qal	hiphil	niphal	qal	hiphil	qal	niphal
3ms	יֵשֵׁב	*יוֹשִׁיב	יוָשֵׁב*	יָשׁוּב	יָשִׁיב	יִשְׁבֶּה*	יִשְׁבָה*
3fs	הֵשֵׁב	*תּוֹשִׁיב	יּתִּוְּשֵׁב*	הַשׁוּב	ּ תְּשִׁיב	*ڔٙۻ۪ڿؚۘ٦	*ۺؘؚۑ۪ٛڿؚؗۘؗ
2ms	הֵשֵׁב	תוֹשִׁיב	יּתִּוְּשֵׁב*	הַשׁוּב	ּ תְּשִׁיב	*بٙڟ۪ڿؚۘۘۘ	*ۺؘؚۑ۪ٛڿؚؗۘؗ
2fs	תַּשְׁבִי	*תּוֹשָּׁיבִי	[*] תִּוְּשְׁבִי	[*] תִּשׂוּבִי	תָּשָ <u></u> ׂבִי	*תִּשְׁבִּי	[*] תִּשָׁבִי
1cs	אֵשֵׁב	אוֹשִׁיב∗	אָוָשֵׁב*	אָשׁוּב	אָשִׁיב	*ڥ۬ۻ۪ڿؚۛؗؗ	*אִשְׁבֶה
3mp	יֵשְׁבוּ	יוֹשִׁיבוּ	יִוְּשְׁבוּ	יָשֿוּבוּ	יָשִּׁיבוּ	יִשְׁבוּ	יִשָּׁבוּ*
3fp	<u>ת</u> ּשַּׁרְנָה	_	_	ָתָש <u>ָ</u> ׂבְן	<u></u> תָּשֵּׁבְנָה	[*] תִּשְׁבֶּׁינָה	[*] תִּשְׁבֻ <mark>ֿי</mark> נְה
2mp	הֵשְׁבוּ	זּתּוֹשָּׁיבוּ*	יּתִּוְּשְׁבוּ	תָּשֿוּבוּ	הַ שָּׁיבוּ	יּתִּשְׁבּוּ	*תִּשָּׁבוּ

Table 6.28. Qal, Hiphil, and Niphal of I-, II-, and III-Vav/Yod Roots⁴⁶

^{46.} The table is supplemented by the following forms: אָאָיָנָה "go forth" (Song 3:11); יָסָר "may he do it again" (Gen 30:24); אָסָר "I will do it again" (Deut 18:16); הוֹבַת "reproving" (Lev 19:17); יָיָלֵד "it will be born" (Lev 22:27); יָשָׁרָ לוֹ (Isa 45:22); הָנָּשְׁרוֹ "when he was born to him" (Gen 21:5); אָסָר "I bring to an end" (Zeph 1:2); יָשָׁבו; "they captured" (Num 31:9); וּשָׁבַה "and capture!" (Judg 5:12).

2fp	[*] ڟۣڟ۪ڋ	_		ڟ۪ڣڿ۫ڹؚؚؗؗؗ	*ڟ۪ڟ۪ٚڂ۪ۮؚؚؗؗ	*ڟ۪ڿ۫ڹۮؚؚۘؗ	* <i></i> ڟؘ۪ڮ۫ڹؚؚؗؗؗؠ
1cp	נֵשֵׁב	נוֹשִׁיב*	[*] ڹؚٳ۬ڟؘؘۣؗ	נְשׁוּב	נְשִׁיב	[*] נִשְׁבֶּה	×ڊۻ۪ٚڿ ؚ ؗ
			Sho	rt- <i>yiqțol</i>			
	qal	hiphil	niphal	qal	hiphil	qal	niphal
3ms		*יֹשֵׁב		יָשׂב	יָשֵׁב	_	יִשָּׁב*
3fs		*תּשֵׁב		הַשׂב	*הָּשֵׁב	_	*תִּשָׁב
2ms		*תּשֵׁב		ה ְשׂב	הָּשֵׁב	_	*תִּשָּׁב
1cs		אֹשֵׁב*				_	אָשָׁב*
1cp		נּטָשב∗				_	*ڹؚڟ۪
			wa	ıyyiqtol			
3ms	וַיֵּׁשֶׁב	וַיּוֹשֶׁב		וַיָּׁשָׁב	וַיָּׁשֶׁב	וּיִּשְׁבְ	[*] ٳؚ؞ؚ۬ؗڟؘ۪۪ڐ
Imperative							
	qal	hiphil	niphal	qal	hiphil	qal	niphal
ms	שׁב	הוֹשֵׁב	ַר יִהוָּשֵׁב*	שוּב	ָהָשֵׁב	ַ יִשְׁבֵה*	٭ڹڟؚ۪ڃؚؗؗ *ڹڟ۪ۣڃ
fs	שָׁבִי	*הוֹשִּׁיבִי	*הִוָּשְׁבִי	שֿוּבִי	*הָשָּׁיבִי	ישָׁבִי*	ָ יִהָשָׁבִי*
mp	שָׁבוּ	הוֹשִּׁיבוּ	הִוְשְׁבוּ	שֿוּבוּ	ָ הָשָּׁיבוּ	ישָׁבוּ	*הִשָּׁבוּ
fp	ַ יּשֵׁרְנָה∗		_	שֿׁבְנָה		· ؇۪ڿؙڹؚؚؗؗؗה	*ۻؚٚڿ۫ڹؚؚؗؗؗה
			Inf	initives			
	qal	hiphil	niphal	qal	hiphil	qal	niphal
const.	שֶּׁבֶת	הוֹשִׁיב	*הؚוؘ۪ٛڟۣڎ	שוב	ָהָשִׁיב	שְׁבוֹת	*הִשָּׁבוֹת
abs.	יָשׂב	*הוֹשֵׁב	_	שוב	הָשֵׁב	*שָׁבֹה	*ڹٙۛۛۛ۬ڣ۪ٚڃؘؗؗؗؗ
			Par	rticiples			
ms	ישֵׁב	מוֹשִׁיב	נוֹשָׁב* נוֹשָׁב	שׁב שָׁב	מֵשִׁיב	*שׂבֶה	[*] ڹؚڟ۪ڿؚۛؗؗ
fs	ישָׁבָת 	*מוֹשֶּׁבֶת	נוּשָּׁבֶת	ָשָׁבָה יַ	מְשִׁיבָה	*שׂבָה	ַּנִשְׁבָּה י
mp	ישָׁבִים	*מוֹשִׁיבִים	<i>ַ</i> נוֹשָׁבִים*	שָׁבִים	מְשִׁיבִים	שֹׁבִים	ינִשְׁבִּים*
fp	ישְׁבוֹת	*מוֹשִׁיבוֹת	נוֹשָׁבוֹת	יּשָׁבוֹת∗	אְשִׁיבוֹת∗	ישׂבוֹת∗	יּנִשְׁבּוֹת∗

	סבב	חמם		סבב	
			qåțal		
	qal	qal-stative	niphal	hiphil	hophal
3ms	סָבָב	תַם	נְסַב	הֵסֵב	*הוּסַב
3fs	סָבְבָה	*ىھۆم	נְמַׁבְּה	*הֵלַבְּה	רוּסַֿבָּה∗
2ms	*مَچَنْ	*ىتىۋىڭ	_	הַסִבֿת	_
2fs	∗סַבֿת	*חַמּת	_	*הֲסִבּת	_
1cs	סַבּֿתִי	חַמֿוֹתִי	_	הְסִבּֿתִי	_
3cp	סֶבְרוּ	*תַמּוּ	נְלַבּוּ	הַלַּבּוּ	הוּסַׂבּוּ
2mp	סֿדַמֿם	*תַמּׂתֶם	גּוֹסֿדַעֿם גו	∗הֲסִבּׂתֶם	_
2fp	*مَتِشْل	*توم	٭ۂڡٙۊؚڟ <i>ٳ</i>	×ؗڬڡ۬ڗؗڟ ٳ	_
1cp	∗סַבֿנוּ	*חַמָּנוּ	_	_	_

Table 6.29. Verb Forms of Geminate Roots: סבב "to Go Around" and מתם "to Be Hot"⁴⁷

^{47.} The table is supplemented by the following forms: דְּלוֹנוּ "we are brought low" (Ps 79:8); לב "cursing" (Num 23:25 [qal inf. abs.]); שׁנֹגת (Mic 2:4); שׁנֹגת (Mic 2:4) "one who errs" (Num 15:28); קלות (you are insignificant" (Nah 1:14); ידמו "they will be silent" (Ps 31:18); ויתמו (they were complete" (Deut 34:8); ויתמו (it was distressing" (Judg 2:15); ונמקתם "and you will pine away" (Ezek 24:23); המק "it will rot" (Zech 14:12 [niph.]); הְמַקְנָה "they will rot" (Zech 14:12); הָבוֹק "being destroyed" (Isa 24:3 [niph. inf. abs.]); נָשָׁמָה "one pure" (2 Sam 22:27 [niph. ptc.]); נָשָׁמָה "that which is desolate" (Ezek 36:34); נמקים "rotten" (Ezek 33:10); נשמות "desolated" (Ezek 30:7); קסד "you will crush" (Mic 4:13); הַרְעוֹתם "you have done bad" (Jer 16:12); הַכָּעוֹתם "קסד "you will cover" (Ps 5:12 [hiphil yiqtol]); אָקל "I will begin" (Josh 3:7); יהֹלו "they will make shine" (Isa 13:10); "it covered" (Ps 91:4 [hiphil short-yiqtol]); תָּהָל "it shone" (Job 41:10); הָבֶרוֹ "sharpen!" (Jer 51:11); הָתֶם "completing" (Ezek 24:10 [hiphil inf. abs.]); מָסָבי "those surrounding me" (Ps 140:10); מָסָבי "who is in labor" (Jer 49:22); "they "those doing evil" (Isa 1:4); מרעים "he will complete" (2 Kgs 22:4); ויכתו "they thrashed" (Deut 1:44); הותל "it was deceived" (Isa 44:20); הותל "it was sharpened" (Ezek 21:14).

				yiqtol				
	<i>qal</i> a	qal active		qal stative		hip	hil	hophal
		Aramaic- like		Aramaic- like			Aramaic- like	
3ms	יָסׂב	יסב	יֵתַם	יִחַם	*יִסַב	יָּמֵב*	<u>י</u> קב*	יוּסַב
3fs	*תְּסֹב	תּסב	—	—	*תִּסַב	*תָּסֵב	*תַּסֵב	*תּוּסַב
2ms	*תָּסֹב	תּסב	—	—	*תִּסַב	*תָּסֵב	*תַּסֵב	*תּוּסַב
2fs	*תְּמֹבִי	*תִּסְבִי	—	—	_	—	—	_
1cs	אָסׂב*	אָסׂב*	_	_	_		_	_
3mp	יְסֿבּוּ	יִקְבוּ*	יֵחַֿמּוּ	*יִחֲמוּ	יִסַּבּוּ	⁴⁸ יָסֵׂבּוּ	<u>יַ</u> קְבוּ*	49
3fp	<i></i> תְּסֻבָּׁינָה	—	—	—	*תִּּថַַּבְנָה	—	—	_
2mp	תְּמֹבּוּ	*תִּסְבוּ	_	_	*ਜ਼ਰੂਂבו	*بَۆمە	*תַּסְבוּ	_
2fp	*מְּסֻבָּׁינָה	_	_	_	*ۺؚۉؘؚڂ۪ڹؚؗؗؗؗ	_	_	_
1cp	גָּקב*	ינסב*	_	_		נְמֵב	_	_

Short-yiqtol and wayyiqtol

	qal	qal	hiphil
3ms	וַיָּׁקָב	*ٳ؞۫ٛٮؚٙڡ	٭ۥؙ۪ڡٛڗ
3fs	*ٳۻؚۧڡؚؚ۪	—	*ۻؘ۪ۧۑٛ
2ms	*ٳۻؚۧڡؚؚ۪	_	*ۻؘ۪ۧۑٙڎ
1cs	—	—	—
1cp	וַנְֿסָב	_	_

^{48.} Note also the combination of Hebrew and Aramaic patterns: ווַשָּׁבוּ "they made go around" (1 Sam 5:8).

^{49.} Note again the combination of Hebrew and Aramaic patterns: יְבָׁתוּ "they were beaten" (Mic 1:7).

			Impe	rative				
		qal		niphal		hiphil		
	ms	סב				הָסֵב		
	ָהַמַבִּי fs							
	mp	לֿבוּ				*הְמֵׁבּוּ		
	fp							
			Infin	itives				
	const.	בב and סב	φ	—		הָסֵב		
	abs.	בל and *סב	*קָנ	הּסֹב		*הְמֵב		
			Parti	ciples				
	qa	!	niphal		hiphil		hoph	al
ms	זבב	2	נָסָב*		מֵסֶב		מוּסָב)*
fs	ؙڿ۫ڿؗؗؗڔ	Ď*	יְנְסַבְּה*		*מְסָבָּה		וּסַבָּה	*מ
mp	רְבִים	סו	יְנְסַבִּים*		*מְסָבִּים		וּסַבִּים	*מ
fp	רְבוֹת	Ď*	יְנְסַבּוֹת*		*מְסָבּוֹת		ּסַבּוֹת	מוּ

Table 6.30. Third Masculine Singular or Unconjugated *Qal* Verb Forms with Possessive Suffixes⁵⁰

	qåṭal 3ms	inf. cons.	impv. ms	ptc.	<i>qåțal</i> 3ms	inf. cons.	impv. ms
	*šamara	*šumur	*š[u]mur	*šāmir	*šamaʿa	*š[u]mu'	*š[a]ma ^c
suffix	שָׁמַר	שְׁמֹר	שְׁמֹר	שׂמֵר	שָׁמַע	שְׁמֹע	שָׁמַע
+1cs	שְׁמְרַׁנִי	שָׁמְרִי	<i></i> שָׁמְרֵ <i>ׁ</i> נִי	*שׂמְרִי	*שְׁמְעַֿגִי	שָׁמְעִי	<i>۬</i> שְׁמְעֵׁנִי
+2ms	*שְׁמְרְדָ	ײ ָמְרְדָּ		ישׂמֶרְדּ∗	*ؗؗؗڟ۪ڟ۪ ٳ	<u></u> שָׁמְעֲדָ	
+2fs	יִשְׁמְרֵדְ∗	*שָׁמְרֵדְ		ישׂמְרֵדְ∗	יִשְׁמָעֵדְ*	[ָ] שָׁמְעֵדְ*	
+3ms	שְׁמְרוֹ	שָׁמְרוֹ	יּשָׁמְבֵ ֹהוּ	ישׂמְרוֹ*	יִשְׁמָע ו ֹ*	שָׁמְעוֹ	יִשְׁמְעֵ ׁהוּ
+3fs	שְׁמְרָה	שָׁמְרָה	*שָׁמְרָהּ	*שׂמְרָה	*שְׁמְעָה	⁺שָׁמְעָהּ	
+1cp	יִשְׁמְרְ ׁנוּ	יּשָׁמְרֵ ׁנ וּ	יָשָׁמְרֵ ׁנוּ	ישׂמְרֵנוּ*	יִשְׁמְעָ ֿנוּ	יָשָׁמְעֵ ֿנ וּ	[ָ] שְׁמְעֵׁנוּ
+2mp	_	לִשְׁמְרְכֶם∗		ישׂמֶרְכֶם∗	—	<i></i> שָׁמְעַכֶם	
+2fp		*שְׁמְרְכֶז		[*] שׂמֶרְכֶז	—	*שָׁמְעֲכָן	
+3mp	⁺שְׁמְרָם	שָׁמְרָם	שָׁמְרֵם	שׂמְרָם∗	*שְׁמְעָם	שָׁמְעָם	יִשְׁמָעֵם∗
+3fp	*שְׁמְרָז	יָשְׁמְרָז∗	יָשְׁמְרֵז∗	ישׂמְרָז*	[*] שְׁמְעָן	שְׁמְעָן∗	יִשְׁמְעֵן∗
cf. lon	g impv., ms	only	שָׁמְרָה				שָׁמְעָה

^{50.} The table is supplemented by the following forms: שְׁבְּעִזְבָדְ "he judged you"; שְׁבְרֵדְ "he broke you"; עֲבְרֵה "he forsook us"; מְכָרָם "he sold them"; עֲבְרָה "your leaving"; עֲבָרָה "your eating"; אָבְרָה "serve him!"; מְלָרָם "capture her!"; מִשְׁלוּ "help us!"; מִשְׁלוּ "his ruler"; עֲבָרָה "one who gives you"; לְבָדָה "one redeeming you"; "his ruler"; גאַלָכָם "one hearing her"; גאַלָרָם "one who gives you"; גּאַלָרָם "ine who gives you"; "his ruler"; גָאַלָכָם "one hearing her"; גַעָּגָרָ "he withheld me"; גָעָלָה "he withheld me"; קַעָעָה; "he sent you"; 'הָעָנָרָ "he knew him"; אָבָעָרָם "he knew her"; גָעָלָחַדָּ "he took them"; יְדָעָה "for the inf. const. with 2ms/p suffix: "אָסָפָּכָם "your gathering"; "your gathering"; "your reaping"; "your finding."

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Table 6.31. Third Masculine Plural Qalwith Possessive Suffixes51

	qåṭal 3cp	impv. mp	<i>qåṭal</i> 3cp	impv. mp
	*šamarū	*š[u]murū	*šamaʿū	*š[u]murū
	שָׁמְרוּ	שִׁמְרוּ	שָׁמְעוּ	שָׁמְעוּ
+1cs	יִשְׁמְר ֿוּ נִי*	ישָׁמְר ֿוּ נִי*	יִשְׁמְעֿוּנִי*	שְׁמְע וּנִי
+2ms	*ڟۭڟ۪ڂ ڹ ٦		יָשְׁמָעוּ ד ָ∗	
+2fs	לְשְׁמֶרוּדְ∗		יִשְׁמָעוּדְ∗	
+3ms	*שְׁמְר ּוּהוּ	ישָׁמְר ֿוּהוּ	יִשְׁמְע וּהוּ	יִשְׁמְע וּהוּ
+3fs	*ڟ۪ڟ۪ڋڹؖۛ	*שִׁמְר ֿוּ הָ	*שְׁמְעֿוּהָ	יִשְׁמְע ֿ וּהָ*
+1cp	יִשְׁמְר וּנוּ	יּשִׁמְרוּנוּ	יִשְׁמְעֿוּנוּ*	שְׁמְעֿוּנוּ
+2mp	—		—	
+2fp	_		_	
+3mp	יִשְׁמְרוּם	יּשִׁמְרוּם∗	יִשְׁמְעוּם∗	_
+3fp	יִשְׁמְרוּז	ישׁמְרוּז∕	יִשְׁמְעוּן*	
-				

Table 6.32. Third Masculine Singular or Unconjugated *Qal* of עשה with Possessive Suffixes⁵²

	<i>qåṭal</i> 3ms	inf. cons./q	inf. cons./qal-impv. ms	
	עָשָׂה	<u>ע</u> שות	<u>ע</u> ֲשֵׂה	עֹשֶׂה
+1cs	יַ <i>טְ</i> שָׂנִי	עֲשׂתִי	<u>אַ</u> שַּׂנִי*	עֹשֵׂנִי
+2ms	ŢŸŸ	אַשׂוֹתָד		ন্ট্ৰ্ট্য
+2fs	_	אַשׂוֹתֵד		זעשר*

52. The historical reconstruction of the verb is complex. The table is supplemented by the following forms: אַנְגָי "he saw her"; דְעָמָנו "our camping"; עַנֵעָ "answer me!"; "shepherd them!"; for the forms of עַנָר see table 6.27 above.

+3ms	ּעְשָּׂהוּ	וְעַשׂתוֹ	—	עֹשָּׁהוּ
+3fs	*ۑؚۑؚ۬؋	אֲשׂתָה	_	עׁשָׂה
+1cp	יַשְׂינוּ	יְעֲשׂוֹתֵׁנוּ	*יַשַׂעו	עשֿנו
+2mp	_	<u>ע</u> שׂתְכֶם		_
+2fp	—	אַשׂתְכֶן∗		_
+3mp	עָשָׂם	עֲשׂתָם	_	¥עֹשָׂם
+3fp	*ۑؚڟ۪	אַשׂתָז∗	_	עָשָׂן*

Table 6.33. Third Feminine Singular, Second Masculine Singular, Second Feminine Singular, and First Common Singular *Qal* with Possessive Suffixes⁵³

	3fs	2ms	2fs	1cs
	*šamarat	*šamarta	*šamarti	*šamartu
	שָׁמְרָה	שָׁמַׂרְתָּ	יּשְׁמַרְתְּ	שָׁמַׁרְתִּי
+1cs	*שְׁמ <u>ְ</u> רַֿתְנִי	<i>ׁ</i> שְׁמַרְתַֿנִי	*שְׁמַרְה <u>ָ</u> ֿנִי	*שְׁמַרְה <u>ָ</u> ֿנִי
+2ms	ŦŸŶᢩĽţ	*שְׁמַרְתְּדָ	*שְׁמַרְתִּׁידְ	<i>ׁ</i> שְׁמַרְתִּידָ
+2fs	Ŧؚ ၯ ၯၴ*	*שְׁמַרְתֵּדָ	*שְׁמַרְתִּידְ	*שְׁמַרְתִּידְ
+3ms	יִשְׁמָרַׁתְהוּ / [ַ] יִשְׁמְרַׁתּוּ *	יֹשְׁמַרְתּ וֹ	יִשְׁמַרְהָ ֿיהוּ	יִשְׁמַרְהָ ֿיהוּ
+3fs	*۬ڟ۪ڡؚؚڋؘۺؚٙ	*שְׁמַרְתָּה	*שְׁמַרְתִּׁיהָ	*שְׁמַרְהָ ֿי הָ
+1cp	*שְׁמְרַ ּ תְנוּ	*שְׁמַרְתְּׁנוּ		
+2mp	—	—	_	—
+2fp	_		_	_
+3mp	*ۻ۪ڟ۪ڋؘٮؚٙڡ	יּשְׁמַרְתָּם∗	יׁשְׁמַרְתִּים∗	*שְׁמַרְתִּים
+3fp	*ۻ۪۬ؿؚڂؚ۫ٮؚٙڒ	*שְׁמַרְתָּז	*שְׁמַרְתִּין	*שְׁמַרְתִּיז

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	3ms	3ms	3ms	3ms	3ms	3ms
	*yašmuru	*yašmuran	*yišmaʿu	*yišmaʿan	*yantinu	*yantinan
	יִשְׁמֹר	_	יִשְׁמַע	—	יתו	_
+1cs	יִשְׁמְרֵׁנִי	יִשְׁמְרַ <i>ׂ</i> נִי	יִשְׁמְעֵׁנִי	*ڹؚؗؗؗۻ۪ڝؚ <u>ٚ</u> ڵؚڋڹ	יִהְגַנִי	_
+2ms	יִשְׁמְרְדָ	יִשְׁמְ <u>ֶרָ</u>	יִשְׁמְעֲדָ	יִשְׁמָעָׂדָ	نش ^ۇ ك	_
+2fs	יִשְׁמְרֵדְ	_	יִשְׁמָעֵדְ	—	*יִתְּנֵך	_
+3ms	יִשְׁמְרֵהוּ	יִשְׁמְרֶנוּ	יִשְׁמְעֵׁהוּ	יִשְׁמְעָׂנּוּ	*יִתְּגַ <i>ָ</i> הוּ	יִהְגָנוּ
+3fs	*ڹؚڟ۪ڡۭ <u>ڽ</u> ۫ڋ	יִשְׁמְ <u>ֶר</u> ְנָה*	*ڹؚؗؗؗۻ۪ڟ۪ۑٚ <u>۫</u> ۻ	יִשְׁמָעָ ּ נָה*	×ڹۻٙڋۻ	יִתְּגֶֿנְה
+1cp	יִשְׁמְרֵׁנוּ	—	יִשְׁמְעֵׁנוּ*	—	יִהְנֹבוּ	_
+2mp	—	—	—	—	—	
+2fp	—	—	—	—	—	_
+3mp	יִשְׁמְרֵם*	_	יִשְׁמְעֵם*	—	יִתְּנֵם	_
+3fp	יִשְׁמְרֵז	_	יִשְׁמְעֵן*	_	יִתְנ <u>ַ</u> ן*	_

Table 6.34. Third Masculine Singular Qal YiqtolEnergic and Nonenergic Verb Forms54

^{54.} For the verbs שמר and אמר, I cite the wayyiqtol form (without conjunction) when the yiqtol form is lacking. Some forms listed that are nonenergic may, in fact, be short-yiqtol forms (as in יָשְׁמְרֵי, Job 29:2). The table is further supplemented by the following forms: קשָׁמְרֵי, "she will eat you", יְשָׁמְרֵי, "he will help her", קשָׁמְרֵי, "you will guard them"; שָּׁמְרֵי, "she will bless me" (piel); יְשָׁמְרֵי, "she will guard you", אָּשְׁמְרֵי, "she will guard her"; יְשָׁבְרֵי, "he will redeem you"; יְשָׁמְרֵי, "he will find him"; יְשָׁבְעֵה, "he will tear her", יְשָׁמְרֵי, "he will find him"; יְשָׁבְעַה, "he will call him"; יְשָׁמְרֵי, "he will hear her", יְשָׁמְרֵי, "he will call him"; יְשָׁמְלֵי, "she will bear her", יְשָׁמְעָיָ, "he will capture you ", it will guard ter", "may you [not] give him"; יו און "you gave us", וַשְּמְלֵי, "he will guard you" (pausal); יִשְּבֶעָה, "you will make it." Note also: יִשְׁמְלֵיך "he will guard you" (pausal); יִשְּבֶעָה; "he will trouble you"; יִשְׁמָלֵי, "i will redeem you", יִשְׁמָלֵי, "i will guard them"; יִשְּבֶעָרָ, "he will make it." Note also: יִשְּמְלֵי, "he will guard you" (pausal); יִשְּבֶעָלָר, "he will trouble you"; יִשְׁמָלֵי, "he will redeem you"; יִשְׁמָלֵי, "he will trouble you"; יִשְּבֶרֵלָי, "he will redeem you"; יִשְׁמָלַיָרָ, "he will make it." Note also: יִשְׁמָלֵי, "he will guard them."

Table 6.35. The Verbs ראה "to See" and ירא "to Fear"

	ראה	ירא			
	qå	țal			
qal	hiphil	niphal	qal	niphal	
רְאָה	הֶרְאָה	נִרְאָה	<u>יְר</u> ָא	_	
רְאֲתָה	—	נִרְאֲתָה	יָרְאָה		
ָרָאָׂיתָ	הִרְאִׄיתָה		יָבֿאתָ	_	
	yiq	ţol			
יִרְאֶה	יַרְאֶה	יַרָאָה	יִירָא	יִּוְרֵא	
יִרְאוּ	יַרְאוּ	יֵרְאוּ	יִירְאוּ/יְרְאוּ	יִוְּרְאוּ	
	short-	yiqtol			
<u>יֿר</u> ָא	—	יִרָא	—	_	
	wayy	viqțol			
וַיַּרְא	וַיַּרְא	<u>וַיּרָא</u>	וַיִּרָא	—	
	Impe	rative			
רְאֵה	הַרְאֵה	הַרָאֵה	יְרָא	_	
	Infin	itives			
רְאוֹת	הַרְאוֹת	הַרָאוֹת	יִרְאָה	_	
רְאֹה	_	_	_	_	
	Partie	ciples			
ראֶה	מַרְאֶה	נְרָאֶה	יָרַא	נוֹרָא	
	ָרָאָת רָאַתָּה רָאַיתָ יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאָה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה יִרְאַה	qal hiphil	qâtal qal hiphil niphal גראָת הָרָאָיתָה רַאַתָה גראַת הַרָאַיתָה הַיַאַיתָה אַיַרָאָה הַרָאַיתָה הַיַאַיתָה גראַת הַרָאַיתָה הַיַאַיתָה גרַאַיַרָאָה יַרָאָיַתָה הַיַרָאָה גרַאַה יַרָאָה אַיַרָאָה גרַאָה יַרָאָה אַרָאָה גרַאַה יַרָאָה אַרָאָה גרַאָה יַרָאָה אַרָאָה גרַאַה אַרָאָה אַרָאָה גרַאַה אַרָאָה אַרָאָה גרַאָה הַרָאָה הַרָאָהַה אַרָאָהַהַאַה גרַאַה הַרָאָה הַרָאָהַה גרַרָאַה הַרָאָהַה הַרָאַהַרָאַהַה גרַרָאַה הַרָאָהַה הַרָאַהַה גרַרָאַה הַרָאַהַרָאַהַרָאַהַה אַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאָהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרָאַהַרַרָאַהַרָאַהַרַאַרַאַרַאַרַאַרַאַרַאַרַאַרַאַרַאַ	qåtalqalhiphilniphalqal $içai$ $içr$ $içr$ $içai$ $jçai$ – $içai$ $içai$ $jçai$ $jçai$ $jçai$ $içai$ $jçai$ $jçai$ $jçai$ $içai$ $jçai$ $jçai$ $jçai$ $içai$ $jçai$ $jiçai$ $jçai$ $jçai$ $jçai$ $jiçai$ $jçai$ $jçai$ $jçai$ $jiçai$ $jçai$ $jçai$ $jçai$ $jiçai$ $jçai$ $jçai$ $jçai$ $jçai$ $jçai$ $jçai$ $jçai$ $jiçai$ $jçai$ $jçai$ $jçai$ $jçai$ $jçai$ $jçai$ $jçai$ $jiçai$ $jçai$ $jçai$ $jjai$ $jiçai$ $jçai$ $jçai$ $jjai$ $jiçai$ $jçai$ $jjai$ $jjai$ $jiçai$ $jjai$	

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Table 6.36. The Verbs רעע "to Be Evil"; רעה "to Graze, Shepherd"; and רוע "to Shout"⁵⁵

	ע	רעי	רעה	רוע
		qåţal		
	qal	hiphil	qal	hiphil
3ms	רַע	הֵרַע	רְעָה	<u>ה</u> ריע*
3fs	רְעָה	הֵבַ <i>ׁ</i> אָה*	רְעַתָה*	הַרִ ֿיעָה *
2ms	_	הֲרַעֿתָ	רְּעִׁיתָ*	אָרִיעֿתָ*
		yiqtol		
3ms	<u>ירע</u>	יָרַעַ	יִרְעֶה	יָריעַ
3mp	וִרְעוּ	יָרַעוּ	יִרְעוּ	יִרִיעוּ
		Short-yiqtol		
3ms	_	_	זַרע	_
		wayyiqtol		
3ms	<u>וּיִּר</u> ע	<u>וַיְּר</u> ע	<u>וּיִֿר</u> ע*	וַי <u>ְּ</u> ׁרַע
		Imperative		
ms	_	*הָרַע	רְעֵה	הָרַע
		Infinitives		
const.	—	הָרַע	רְעוֹת	ָ הִריַעַ
abs.	—	הָרַעַ	רְעֹה*	—
		Participles		
ms	—	מֵרַע	רֹעֶה	*מֵרִיעַ

^{55.}The table is supplemented by these forms: הַמֵּלָה "she began"; הָשַׁע smear "cshe began"; הָשָׁע "she saw"; הַרִיעוּ מַרִיעוּ "seeing"; הַנִיחַ "seeing"; הַנְיחַ "iter back!"; הַרִיעוּ "done who turns back."

Table 6.37. The Verbs חלל "to Defile, Begin"; חלה "to Be Sick"; and דול Writhe"; and נחל to Inherit"⁵⁶

		חלל	חלל		חלה		חיל / חול	ול	נח
	piel	hiphil	niphal	qal	qåṭal piel	niphal	qal	qal	piel
3ms	חַלָּל	הֵתַל	נִחַל	<u></u> קלָה	חִלָּה	*ڍٻڔؘٝؗؗؗؗ	*بؚٙڔ	ڋؚؗڝٙۯ	נִתַל
3fs	חִלְּלָה	ؿڟ۫ڂؚۭٛؗؗ	[*] נְחַלָה	*חָלְתָה	*חִלְתָה	_	ָ הְׁלָה	*נְחַלָה	[*] נְחַלָה
2ms	ڹڋٚڔٝؗڔٙ	הַחָלּתָ	٭ڋڝۧڔٝٛڟ	*חָלִיתָ	*חִלְּיתָ	נֶחֱלֵיתָ	*بَdظ	ڋؚڝۧڔٝٛۻ	_
					yiqțol				
3ms	יְחַלֵּל	יָתַל	*יֵחַל	_	*יְתַּאָׂה	_	יָחוּל / יָחִיל	יִנְחַל	_
3mp	יְחַלְלוּ	ڹ۫ڟؘڋ	<u>י</u> נֿתֿלּוּ*	_	יְחַלּוּ	_	יְחֻׁלוּ / יְחִׁילוּ	יִנְחֲלוּ	_
				W	ayyiqtol	!			
3ms		וַיֶֶָּֿתָל	<u>יויֶת</u> ל*	וַיְּׁחַל	וַיְחַל	_	*וַיָּׁחָל / וַיָּהֶל	_	
				In	perativ	е			
ms		הָתֵל	_		חַל	_	*חִיל	_	
				In	finitives	6			
const.	חַלָּל	הָתֵל	הֵמֵל	∗חֲלוֹת	חַלּוֹת	_	חוּל	נְּחֹל	נַקל
abs.	_	הָתֵל	—	_	_	—	—		
				Pa	rticiple	8			
ms	מְחַלֵּל	מֵחֵל	_	חֹלֶה	_	*נַחְלָה	_	_	_

^{56.} The table is supplemented by the following forms: גָחָלוּ "they profaned" (pausal); גַחָל "they were profaned"; הַחָלוֹ "you were profaned" (pausal); יַחָל "they will be plundered"; יַחָל "I am profaned"; יַחָל "it will be profaned" (pausal); ישָׁסוּ "they will be plundered"; יַשָּׁסוּ "I am profaned"; ישָׁסוּ "you were sick"; יַשָּׁסוּ "it sick" הַלִיּתי "you were sick"; יַלִית "it sick" הַלִית "I entreat"; הַלָּת יֹלית "it writhed"; יַשָּׁסוּ it writhed"; יַשָּׁסוּ "I writhed"; יַשָּׁסוּ it writhed"; יַשָּׁסוּ "I writhed"; יַשָּׁסוּ "I writhe"; יַשָּׁסוּ it writhed"; הַחָלית "I writhe"; יַשָּׁסוּ "I writhe"; יַשָּׁסוּ it writhe"; יַשָּׁסוּ it writhe"; יַחָלית "I writhe"; יַשָּׁסוּ "it writhe"; יַחָלי "I writhe"; יַחָלי "I writhe"; יַהָּלִיתי "it writhe"; יַחָלי "I writhe"; יַחָלי "I writhe"; יַחָלי "I writhe"; יַהָּלָיתי "it writhe"; יַחָלי "I writhe"; יַחָּלַית "they inherited"; יַחָלי "I writhe"; יַחָּלַית "they inherited"; יַחָלי "I writhe"; יַחָלי "they inherited"; יַחָלי "I writhe"; יַחָּלַית "they inherited"; יַחָלי "they inherited"; יַחָלוֹ "they distributed."

Appendix Producing Nominal and Verbal Forms

Producing Nominal Forms

The noun has four basic forms, differentiated based on endings and the sequence of vowels in the noun's stem: absolute singular, absolute plural, construct singular, and construct plural. The sequence of vowels in nouns with pronominal suffixes follows one of these four forms.

In the following, I first address masculine nouns (i.e., those that inflect as masc. nouns). Furthermore, I distinguish between nonexceptional and exceptional nouns. Exceptional nouns are the geminate nouns (e.g., עָם "people"), the segolate nouns (e.g., מָלֶך "king"), one variety of which is middle-weak nouns with a diphthong (e.g., מָלֶך "olive"), and etymological III-*vav/yod* nouns, also commonly called III-*he* nouns (e.g., הָדָה "seer"). Nonexceptional nouns are all the other types. For each category, we first address the nonexceptional nouns. The nouns are described in terms of their number of syllables in THT. All forms occur in the Hebrew Bible, unless preceded by an asterisk. An attempt has been made to cite nouns that appear relatively frequently.

Producing Plural Nouns

The following is a self-consciously simplified description of how to produce particular nominal and verbal forms. The underlying historical changes that led to these forms are described in greater detail in chapters 2–5. I refer in this section only to the Tiberian vowels and symbols.

Due to the manner of our pronunciation, it is often the case that students find it difficult to predict where a word should exhibit a *patakh* and where it should exhibit a *qamets*. Keep these general rules in mind:

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- A tonic syllable in a noun will often have a *qamets* (e.g., the second syllable of דָבְר "word"), while a tonic syllable in a verb will often have a *patakh* (e.g., the second syllable of שָׁמַע "he heard").
- An open pretonic syllable in both a noun and verb will often have a *qamets* (e.g., the first syllable of שָׁמַע "word" and שׁמַע "he heard").

When one adds the masculine plural morpheme "- to a nonexceptional noun that has only one syllable, usually no other change takes place in the word:

"good"	טוֹבִים	=	ים _. -	+	טוב
"light"	אורים	=	ים _. -	+	אור
"one who arises"	קָמִים	=	ים _. -	+	יקמ∗
"song"	שִׁירִים	=	ים _. -	+	שִׁיר
"flame, Urim"	אוּרִים	=	ים _. -	+	אוּר
"blood, spilled blood"	דְּמִים	=	ים _. -	+	זָּם

Exceptional nouns of one syllable include the geminates, which, when a syllable is added to their end, reveal their etymological vowel and their etymological gemination (that is, the doubling of their second consonant). To produce the plural form of such words, one must first know that they are from a geminate base. Most nouns of two consonants with *patakh*, *tsere*, or *holem* are geminate nouns (the *patakh* reflecting historical /*a/, *tsere* /*i/, and *holem* /*u/).

"people"	עַמִּים	=	ים _. -	+	-122	←	עַם
"prince"1	שָׂרִים	=	ים _. -	+	-שִׂר	←	שׂר
"arrow"	חִצִּים	=	ים _. -	+	-לא	←	מא
"statute"	חקים	=	ים _. -	+	ग्ल-	←	חֹק

Nonexceptional masculine nouns that contain two syllables in their stem often exhibit further changes in their vowel patterns when pluralized. This

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^{1.} Note the compensatory lengthening in the word $\neg \psi$; the *resh* cannot double and, as if in place of this, the preceding vowel appears as *qamets*, not *patakh*.

is due to the fact that one is usually adding an extra syllable to the end of the word and thus causing a preceding syllable to shorten, if possible. After applying the plural morpheme (", -), if the propretonic syllable contains a *qamets* or *tsere*, this vowel reduces to *shewa* or a muttered vowel:

	$qamets > \partial //tsere > \partial$										
"word"	דְבָרִים	←	*דְּבָרִים	=	ים _. -	+	נֿבֿר				
"elder"	זְקַנִים	←	זָקַנִים*	=	ים _. -	+	זָקז				
"full"	מְלֵאִים	←	*מְלֵאִים	=	ים _. -	+	מְלֵא				
"pious"	חֲסִידִים	←	*חָסִידִים	=	ים _. -	+	חָסִיד				
"written"	כְּתוּבִים	←	*כָּתוּבִים	=	ים _. -	+	כָּתוּב				
"grape"	<u>אַנ</u> ְבִים	←	*עֵנְבִים	=	ים _. -	+	ײַנָב				

If a noun does not contain a *qamets* or *tsere* in its propretonic syllable, but it does contain a *tsere* in its pretonic syllable, then, this *tsere* reduces to *shewa* or a muttered vowel:

"judge"	שׁפְטִים	←	שׂפֵּטִים∗	=	ים _. -	+	שׁפֵט
"blind"	עִוְרִים	←	עוִּרִים∗	=	ים _. -	+	עוַר

A *tsere* does not reduce in the pretonic syllable if a vowel has reduced in the propretonic (cf. מְלָאִים "full"). Most other nouns of this category do not exhibit any change in their stem vowels.

"eternity"	עוֹלָמִים	=	ים _. -	+	עוֹלָם
"thief"	גַנְּרִים	=	ים _. -	+	<i>ڏ</i> ؤح
"righteous"	צַדִּיקִים	=	ים _. -	+	צַדִּיק
"God" ²	אֱלֹהִים	=	ים _. -	+	אֱלוֹהַ
"cherub"	כְּרוּבִים	=	ים _. -	+	כְרוּב
"border" ³	גְּבוּלִים*	=	ים _. -	+	אָבוּל
"judgment, justice"	מִשְׁפָּטִים		ים _. -		מִשְׁפָּט

^{2.} The plural is spelled defectively.

^{3.} The plural absolute is not attested.

"beautiful"	יָפִים	=	ים _. -	+	-םיָ	←	יָפֶה
"one making"	עשים	=	ים _. -	+	-שֹׁט	←	עֹשֶׂה
"seer"	חזים	=	ים _. -	+	הז-	←	חֹזֶה
"deed"	מַעֲשִׂים	=	ים _. -	+	-מַעֲשׂ-	←	מַעֲשֶׂה

Sometimes the noun ends with an etymological *vav* or *yod*; in these cases, the noun inflects like any other noun of this category.

	qamets	> ə//ts	ere > ə				
"built" ⁴	בְּנוּיִם	←	*בְּנוּיִם	=	ים _. -	+	בָּנוּי

The other major category of exceptional noun is the segolates. Almost universally, to pluralize segolates one supplies the vowel symbols *shewa- qamets* to the stem consonants and then adds the plural morpheme י_____.

"king"	= מְלָבִים	ים +	-מְלָד	=	т:	+	מלד	←	מָּלָד
"masters"	= בְּעָלִים	ים <u>.</u> - +	-אְּעָל	=	т:	+	בּעל	~	בַֿעַל
"book"	= סְפָרִים	ים <u>.</u> - +	-קפָר	=	т:	+	ספר	←	סַٰפֶר
"morning"	= בְּקָרִים	ים <u>.</u> - +	-אָקר	=	т:	+	בּקר	←	בּׁקֶר
"holy" ⁵	= קֶדָשִׁים	ים _. - +	-קָדָשׁ	=	т:	+	קדשׁ	←	לֹדֶשׁ
"ornament"	<u>אַ</u> דָיים =	ים <u>.</u> - +	-יְעַדָי	=	т:	+	עדי	←	אַדי

^{4.} By convention, a *mater yod* is not written after a consonantal *yod* at the end of a word.

^{5.} The *hatef-qamets* appears in place of a regular *shewa* due to the guttural pronunciation of the *qoph* as well as the underlying historical /u/ vowel, as explained above. This plural form of "holiness" is found especially where the word bears the definite article. Without the article the plural form is קַרָשִׁים.

"sickness" ⁶	חֶלָיִם	=	ים ₋ +	*חֲלָי-	=	т:	+	חלי	←	חֵלִי	
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Among the larger category of segolate nouns, there are a limited number that exhibit in their singular absolute form a *patakh* or *qamets* followed by a yod or vav as a second root consonant (i.e., not a mater). An extra hireq or segol is also present after the yod or vav. The historical diphthong (*ay or **aw*) resolves when it is not accented, or, in other words, in almost every case when an ending is added.

	*ay > tse	ere, *au	v > holem				
"olive"	זֵיתִים	←	* <u>זֿי</u> ִתִים	=	ים _. -	+	זַיִת
"death"	מותים	←	*מְׂוֶתִים	=	ים _. -	+	מְ <i>ו</i> ֶת

Generally, when one inflects feminine nouns (i.e., those marked as feminine) for plurality, one subtracts the morpheme - and supplies the ending *in*-. Since, in essence, one syllable is exchanged for another, the accent does not shift and the vowels of the singular stem are usually the vowels of the plural stem too:

"good"	טובות	=	-וֹת	+	-טוב	←	טוֹבָה
"one who arises"	קמות	=	-וֹת	+	קמ-	~	קָמָה
"song"	שִׁירוֹת	=	-iת	+	-שיר	~	שִׁירָה
"counsel"	עֵצוֹת	=	-וֹת	+	-עצ	←	עֵצָה
"cubit"	אַמּוֹת	=	-וֹת	+	-אַמ	←	אַמָּה
"princess"	שָׂרוֹת	=	-iת	+	-שִׂר	←	שְׂרָה
"corner"	פנות	=	-וֹת	+	فرز-	←	ھَدْد
"statute"	חַקוֹת	=	-iת	+	חָק-	←	חַקָּה
"blessing"	בְּרָכוֹת	=	-וֹת	+	-בֹּרָכ	~	בְּרָכָה
"full"	מְלֵאוֹת	=	-iת	+	-מְלֵא	←	מְלֵאָה

^{6.} The hatef-qamets appears in place of a regular shewa due to the guttural pronunciation of the *khet* as well as the underlying historical /u/ vowel.

"war"	מִלְחָמוֹת	=	-וֹת	+	מִלְחָמ-	←	מִלְחָמָה
"beautiful"	יְפוֹת	=	-וֹת	+	-ָפ	←	יָפָה
"one who goes up"	עלות	=	-וֹת	+	-טֹל	←	עֹלָה

The most common exception to this rule is the feminine segolate nouns. As with the masculine segolate nouns, one supplies the vowel symbols *shewa-qamets* to the stem consonants and then adds the plural morpheme (in this case ni-).

"queen"	מְלָבוֹת	=	-וֹת	+	-מְלָב*	=	т:	+	מלב-	←	מַלְכָּה
"tears"	דְּמְעוֹת	=	-וֹת	+	-זְּמָע	=	т:	+	-דמע	←	דִּמְעָה
"waste"	חֶרָבוֹת	=	-וֹת	+	*חֶרָב-	=	т:	+	חרב-	←	חָר <u>ְבָּ</u> ה

Producing Masculine Nouns with (Most) Suffixes

^{7.} The forms are listed as they appear in the Hebrew Bible, though there is sometimes variation in spelling. Only the form of the noun "voice" with 2fp suffix is unattested. Note that it is common to find a word in the absolute with an internal *mater*, but the same word with no internal *mater* when it has a suffix. In general, the scribes seemed reluctant to use more than one *mater* per word.

on plural nouns.⁸ This section deals only with the forms of the masculine noun without heavy suffixes; a subsequent section treats the masculine noun with heavy suffixes.

For most masculine nouns, the stem vowels of the absolute plural are the same as the stem vowels of the noun with nonheavy possessive suffixes. Thus, the production of the noun plus suffix is normally no more complicated than taking the stem and stem vowels of the plural absolute and then adding the correct suffix. Or, in other words, one subtracts \Box^{1} - and adds the appropriate suffix. By using this shortcut, one can produce both the masculine singular noun plus suffix and the masculine plural noun plus suffix (including for geminate nouns, II-*vav*/*yod* nouns with diphthongs, and III-*vav*/*yod* nouns). In essence, the only difference between a singular noun + suffix and a plural noun + suffix lies in the form of the suffix, not in the stem vowels of the noun (i.e., the suffix 1- "his" indicates a singular noun, but the suffix η_{-} "mis" indicates a plural noun).

"his light"	אורו	=	i-	+	-אוֹר	←	אוֹרִים
"your (fs) light"	אוֹרֵדְ	=	<u>∓</u>	+			
"his song"	שִׁירוֹ	=	i-	+	-שיר	←	שִׁירִים
"my song"	שִׁירִי	=	·	+			
"his blood"	דָּמוֹ	=	i-	+	-דָּמ	←	דָּמִים
"her blood"	ڹؚڞ	=	- ָה	+			
"his people"	า่เอบ	=	i-	+	-עַמ	←	עַמִּים
"your (ms) people"	עַמְדָ	=	<u>⊤</u>	+			
"his arrow"	הַצּוֹ	=	i-	+	הא-	←	חָצִים
"their arrow"	הַצְּם	=	- ָם	+			
"his statute"	חקו	=	i-	+	ग्द-	←	חָקִים
"their statute"	חָקָם	=	-,ָם	+			

To Produce the Masculine Singular Noun + Suffix

^{8.} The term "heavy" reflects the fact that these suffixes attract the tone, unlike the other suffixes which are often penultimately stressed. The term is used by many grammars, e.g., Thomas O. Lambdin's (*Introduction to Biblical Hebrew* [New York: Scribners, 1971], 87).

"his word"	דְּבָרוֹ	=	i-	+	-דְרָ	~	דְּבָרִים
"your (ms) word"	ڶڂؘڶؚۮ	=	₹ 1	+			
"his pious one"	חֲסִידוֹ	=	i-	+	חֲסִיד-	←	חֲסִידִים
"your (ms) pious one"	טַקידָ	=	त्र ₋ -	+			
"my judge"	שׁפְטִי	=	`	+	-שְׁפְט	←	שׁפְטִים
"our judge"	שׁפְטֵׁנוּ	=	- ַנוּ	+			
"his eternity"	עוֹלָמוֹ	=	i-	+	-עוֹלָמ	←	עוֹלָמִים
"his God"	אֱלהוֹ	=	i-	+	אֱלֹה-	←	אֱלֹהִים
"its border"	גְּבוּלוֹ	=	i-	+	גְּבוּל-	←	*וְּבוּלִ י ם
"your (fs) border"	גְּבוּלֵדְ	=	<u>⊣</u>	+			
"his judgment"	מִשְׁפָּטוֹ	=	i-	+	-מִשְׁפְּט	~	מִשְׁפְּטִים
"my judgment"	מִשְׁפָּטִי	=	·	+			
"your (ms) olive"	זַּיוֹזַב	=	च _. −	+	זֵית-	←	זֵיתִים
"his death"	מותו	=	i-	+	מות-	←	מוֹתִים
"her death"	מוֹתָה	=	- ₋ ה	+			
"one making it (ms)"9	ישוֹ	=	i-	+	-שֹׁט	~	עשים
"one making it (fs)"	עֹשָׂה	=	- _ب ا	+			
"our deed"	מַעֲשֵׁנוּ	=	- ַנוּ	+	-מַעֲשׂ	←	מַעֲשִׂים

To Produce the Masculine Plural Noun + Suffix

"your (ms) songs"	שִׁי גָׁידָ	=	ק י,ֶ́-	+	-שיר	←	שִׁירִים
"his enemies"	קָמָיו	=	- יָיו	+	קמ-	←	קָמִים
"our enemies"	קָמֵׁינוּ	=	- <u>ֵׁינ</u> וּ	+			
"his spilled blood"	דְּכָּיו	=	- יָין	+	דְּמ-	←	דְּמִים
"her spilled blood"	דְּמֶׂיהָ	=	- ֶֶׁיהָ	+			

^{9.} For this form, see Job 40:19. Usually, however, the 3ms suffix on singular IIIvav/yod nouns/participles is הו - (e.g., עֹשָׁהו).

"his peoples"	עַמָּיו	=	- ָיו	+	-עמ	←	עַמִּים
"your (ms) peoples"	עַמֶּיד	=	י, [ַ] רדּ	+			
"my princes"	שָׂרַי	=	٢	+	-שָׂר	←	שָׂרִים
"your (ms) arrows"	ָ <i>חָ</i> אָּיד	=	- _. ْ ۲	+	-טָצ	←	חִצִּים
"your (ms) statutes"	<u>ת</u> קֿיד	=	<u>ָר</u> ד	+	ग्र-	←	חָקִים
"his words"	דְּבָרָיוֹ	=	- ָיו	+	-דְבָר	←	דְבָרִים
"your (ms) words"	<u>הָבָ</u> ֶרָי	=	- ֶ [ָ] יד	+			
"your (ms) pious ones"	טֿמיבֿיוּ	=	- ֶֶׁידָ	+	חֲסִיד-	←	חֲסִידִים
"his judges"	שׁפְטָיו	=	- ַיו	+	-טַפְּט	←	שׁפְטִים
"your (fs) judges"	שׁפְטַיִדְ	=	<u>ج:`</u> -	+			
"your (fs) sailors"	מַלְתַיִד	=	<u>ج:`</u> -	+	מַלָּח-	←	מַלָּחִים
"his gods"	אֱלֹהָיו	=	- ַיֹן	+	אֱלה-	←	אֱלֹהִים
"your (ms) gods"	אֶלֹהֶׁידָ	=	יָ ^י דָ́−	+			
"its borders"	גְּבוּלֶיהָ	=	- ֶֻׁיהָ	+	גְּבוּל-	←	*גְבוּלִים
"your (ms) borders"	גְּבוּלֶידָ	=	יָ ^י דָ́−	+			
"his judgments"	ַמִשְׁפְּטָיו	=	- ַיו	+	-משְׁפָּט	←	מִשְׁפָּטִים
"my judgments"	מִשְׁפְּטַי	=	·	+			
"his deaths"	מוֹתָיו	=	- ַיֹן	+	מות-	←	מותים
"ones making it"	עשִׁיו	=	- ַיו	+	-שֹׁט	←	עשים
"ones making you"	עשיד	=	<u>ج:`</u> -	+			
"his deeds"	מַעֲשָׂיו	=	- ָיו	+	-מַעֲשׂ-	←	מַעֲשִׂים
"our deeds"	מַעֲשֵׂינוּ	=	- <u>ֵׁינ</u> וּ	+			

The only group of exceptional nouns not included in the above lists are the segolates. Because the segolates have one base for their singular forms (*qatl, *qitl, *qutl) and another base for their plural forms (*qatalīm, *qitalīm, *qutalīm), the kind of correspondences one sees in the above words is not found in this group of nouns. Instead, the singular + suffix is formed by taking the base form and adding a suffix to it. In essence, *malk + $\bar{i} = *malk\bar{i} (> ;; *sipr + \bar{i} = *sipr\bar{i} (> ;; *qudš + \bar{i} = *qudš\bar{i} > *qodš\bar{i} (;; *qudš + \bar{i} = *qudš\bar{i} > *qodš\bar{i} (>;; *qudš + \bar{i} = *qudš\bar{i} > *qodš\bar{i} (>;; *qudš + \bar{i} = *qudši > *qodši (;; *qudš + \bar{i} = *qudši > *qodši (;; *qudš + \bar{i} = *qudši > *qodši (;; *qudš + \bar{i} = *qudši > *qodši (; ; *qudš + \bar{i} = *qudši > *qodši (; ; *qudš + \bar{i} = *qudši > *qodši (; ; *qudš + \bar{i} = *qudši > *qodši (; ; *qudš + \bar{i} = *qudši > *qodši (; ; *qudš + \bar{i} = *qudši > *qodši (; ; *qudš + qudš + qud$

tial to know first the base of a segolate noun before producing its form plus a suffix. The historical vowel is often implicit in the absolute singular (an initial *patakh* signals a historical */a/, *tsere* */i/, and *holem* */u/; a *segol* may reflect a historical */a/ or */i/; a *shewa* usually reflects historical */i/).

"my king"	מַלְבִּי	=	<u>-</u> .۲	+	*מַלְד	←	ڟ۪۫ڴ
"our king"	מַלְבֵּׁנוּ	=	- ַנוּ	+			
"his master"	בַּעָלוֹ	=	i-	+	יַבַּעָל∗	←	בֿעַל
"her master"	בַּעְלָה	=	- ָ ה	+			
"her midst"	קרְבָּה	=	- ₋ ה	+	זקרַבּ∗	←	ۘڿٛڕٮۜ
"your (ms) midst"	קרִבְּדָ	=	₹	+			
"my book"	סִפְרִי	=	·	+	*סִפְר	←	לַפֶר
"your (ms) book"	סִפְרְדָ	=	च.्-	+			
"his rod, tribe"	שָׁבְטוֹ	=	i-	+	שִׁרְט∗	←	שַׁבֶט
"your (ms) rod, tribe"	שָׁבְטְדָ	=	च.्-	+			
"my holy thing"	קַדְשָׁי	=	<u>-</u> .۲	+	קְדְשׁ*	←	ל <u>ָ</u> דָשׁ
"your holy thing"	קַדְשְׁדְ	=	<u>न</u> ्-	+			
"his captivity"	שִׁבְיוֹ	=	i-	+	יּשָׁרְי∗	←	שְׁבִי
"her captivity"	שִׁבְיָה	=	- ָר	+			
"sickness"	חָלְיוֹ	=	i-	+	*חָלְי	←	חֲלִי

The plural forms of the segolates with suffixes look, for the most part, like the plural forms of words like דָּבְרִים "word"; recall that similar vowel patterns appear in the absolute plural forms of both types of nouns: דְּבְרִים "words" and מְלָרִים "kings." Thus, to produce the proper form of the masculine plural segolate plus suffix, one can (in most cases) simply add the appropriate suffix to the plural stem.

"her kings"	מְלָבֶׁיהָ	=	- ֵֶׁיהָ	+	-מְלָב	←	מְלָבִים
"our kings"	מְלָבֵׁינוּ	=	- ַׁינוּ	+			
"his masters"	בְּעָלָיו	=	- יָיו	+	-בְּעָל	←	יַבְּעָלִים∗
"her masters"	בְּעָלֶיהָ	=	- ֶֶׁיהָ	+			

"his rods, tribes"	שָׁבָטָיו	=	- יו	+	-שָׁבַט	←	שבטים
"your (ms) rods, tribes"	<u></u> שְׁבָּטָּׁידָ	=	- پَ ْ آ ت	+	т:		• т :
"his holy things"	_ָ קָדָשָׁיו	=	- יָין	+	-קַדָש	←	קָדָשִׁים
"my holy things"	קָדָשַׁי	=	·	+			
"our sicknesses"	ָ חֶלְיֵנוּ	=	- <u>ֵׁינ</u> וּ	+	ְ הַלָ י -	←	ְ הָלָיִם

The preceding correspondences, it should be emphasized again, do not pertain to the noun with heavy pronominal suffixes (i.e., for singular nouns with $\neg \neg$ - and $\neg \neg$ -; and for plural nouns with $\neg \neg$ - and $\neg \neg$ -, $\neg \neg$, \neg , \neg -, \neg -. In each case, where these suffixes are used, they appear on the construct form of the noun. Thus, to produce such forms, one can simply add the suffix to the construct form. Before addressing the form of nouns with heavy suffixes, we will look at producing the construct form of nouns. The inflection of feminine nouns with suffixes also reflects the construct form of nouns and is treated after the following section.

Producing the Construct Form of Nouns

The construct is the shortest form of a Hebrew noun. Its brevity reflects the fact that it is pronounced together with a following word, as essentially one long word. In general, in an open syllable, a *qamets* or *tsere* in the absolute is turned to *shewa* in the construct. In closed syllables, these same vowels are turned to *patakh*. In the list below, the absolute is found in the far right column and to the left of this is the form of the word with vowels reduced and to the left of this, the form of the word with shortened vowels.

	construct		closed syllable $\bar{a} > a, \bar{e} > a$	open syllable $\bar{a} > \partial, \bar{e} > \partial$		absolute
"blood of"	דַם	=	דַם		←	זָּם
"word of"	דְּבַר	=	דְּבַר	* Łڂر	←	נֿבֿר
"elder of"	זַקַז	=	זְקו	זַקז*	←	זְקֵז
"heart of"	לְבַב	=	לְבַב	*לְבָב	←	לֵבְב
"ruler of"	נְגִיד	=		נְגִיד	←	נְגִיד
"blessed of"	בֿרוּד	=		בֿרוּב	←	בֿֿרוּד

No shift in the *tsere* takes place in the *qal* masculine singular participle (as well as in similarly formed nouns). For these nouns, the absolute and the construct are identical in the singular: שׁמֵר "judge" or "judge of," and שׁמֵר "guard" or "guard of."

Nonexceptional masculine singular nouns that lack *qamets* or *tsere* usually have construct forms identical to their absolute forms, such as "good" and "good of," אוֹר "light (of)," אָרִיר "song (of)," אָרִיר "majestic (of)," אָרִיר "boundary (of)." In addition, most masculine singular exceptional nouns have construct forms also identical to their absolute forms, even when they contain a *tsere*: עַם "people" and "people of," עָר "master (of)," עָר "arrow (of)," הָרָי "statute (of)," עָלָד "holy thing (of)," גָּרִי "kid (of)," הַלָּרָש "filiction (of)."¹⁰ II-*vav/yod* nouns with a diphthong show resolution of the diphthong: בַּיָּת "house" versus מוֹת singular nouns (and participles), the absolute contains a *segol* and the construct a *tsere*: עָשָׁה "deed of."

In the masculine plural construct, one applies the same rules of vowel reduction (*qamets* and *tsere* in open syllables reduce to *shewa*). In addition, one replaces the plural absolute ending, "-, with '- (which does not reduce). Occasionally, after the reduction of vowels, two consecutive syllables would each contain a *shewa*; in these cases, the first *shewa* is changed to *hireq*. Segolate nouns, on the other hand, reveal their historical first vowel (יבי (**imaray*) "kings of"; יקר (**imaray*) "words of"; יקר (**hodašay* < **hudatay*] "months of").

	construct	$\partial + \partial >$ <i>i</i> , <i>a</i> , or <i>o</i>	-	1 syl ə, ē	lable > ə						absolute
"blood of"	דְמֵי		דְמֵי	←	*דְּמֵי	=	۲	+	דָּמ-	←	דָּמִים
"words of"	ּדְרֵי	ּדְרֵי	*דְּבְרֵי	←	*דְּבָרֵי	=	۲	+	-דְבָר	←	דְּבָרִים
"elders of"	זקני	זקני	זְקְנֵי*	←	זְקֵנֵי*	=	۲	+	זְקֵנ-	←	זְקֵנִים
"kings of"	מַלְבֵי	מַלְבֵי	*מְלְבֵי	←	*מְלָבֵי	=	۲	+	מְלָב-	←	מְלָבִים
"words of"	אָמְרֵי	אָמְרֵי	אַמְרֵי*	←	אָמָרֵי*	=	۔ _	+	-אַמָר	←	אַמָרים
"months of"	ָחְדְשֵׁי	חָדְשֵׁי	*חֲדְשֵׁי	←	*חֲדָשֵׁי	=	`	+	-חֲדָשׁ	←	חֲדָשִׁים

^{10.} In the case of geminate nouns with *maqqep*, the vowel will sometimes be short, as with לב" versus יקק" statute of."

Many other nouns are identical in their absolute and construct forms, except for the ending '_-. For example, note שָׁפְטִים versus "judges of"; שָׁפְטֵי "peoples of"; עָמִים "statutes of"; נְגִידִי versus מַעֲשִׁים "leaders of"; עָשִׁי versus עָשִׁים versus מַעֲשָׁים versus מַעֲשָׁים wersus מַעֲשָׁים "deeds of."

For feminine singular nouns in the construct state, one replaces the absolute ending π_{-} with word-final π_{-} . One applies the same rules of vowel reduction: *qamets* and *tsere* in open syllables are reduced to *shewa*. As with the masculine plural, where two consecutive syllables would attest *shewas*, the first changes to *hireq*.

	construct	∂ + ∂ > i	ā >	ə, ē	> 9					1	absolute
"sleep of"	שְׁנַת		שְׁנַת	←	ישֵׁנַת∗	=	ת	+	שֵׁנ-	←	שׁנָה
"year of"	שְׁנַת		שְׁנַת	←	*ڟ۪ڎؚؚٮ	=	ת	+	-שָׁנ	←	שָׁנָה
"blessing of"	בּרְכַת	בּרְכַת	≮בְרַת∗	←	אַבְרָכַת∗	=	ת	+	-בְרָכ	←	בְּרְכָה

Most other nouns (including exceptional nouns) show only the shift from (י- ת סוב, as with אַיַר versus טוֹבָה "good of"; אַיַר versus אַאָּה (cubit of ", אָמַת versus אָאָקָה "corner of"; אָמַת versus דָמְעָה; "cubit of מַלְבָּה versus מַלְבָּה; "statute of"; דָמְעָה; מַלְבָּה; ימוני versus מַלְבָּה; "statute of"; דְמְעָה; מַלְבָּה; אַמַר versus מַלְבָּה; "statute of"; דְמְעָה; אַמַר versus מַלְבָּה; "scroll of"; מַלְבָּה; "scroll of"; מַלְבָּה; "scroll of"; אַמַר versus חַכָּה; אַמַר versus מַלְבָּה; "scroll of"; מַלְבָּה; "scroll of"; מָלַבָּה; "scroll of"; אַמַר versus מָלְבָּה; "uersus מָלְבָּה; "scroll of"; אַבוֹדָה; אַנַר versus מָלְבָּה; "ibbor of"; מָלָבָר אָלָה versus מָלְבָּה; אַלָלָה; versus מַלְבָּה; "ibbor of"; מַר מָלָבָה; אַלָלָה; אַנוֹד versus אַלָלָה; אַנוֹד versus אַלָלָה; אַבוֹדָה; אַנוֹד מוּנוֹד מוּנוֹד מוּ אוֹל אַלָלָה; "burnt offering of." אַכוּד versus a מָלְבָּה versus מַלְבָּה; "burnt offering of"; אַבוֹדָה; versus a prefix mem often exhibit a segolate pattern in the singular construct: מַלְכָה versus מַלְכָה

For feminine plural nouns, one again reduces *qamets* and *tsere* in open syllables to *shewa*; when two *shewas* would appear in adjacent syllables, the first is changed to *hireq*. No other changes are made. These nouns exhibit the same ending in the absolute and construct: nj-.

	construct		ə + ə > i	open syllable $\bar{a} > a, \bar{e} > a$	2	
"years of"	שְׁנוֹת	=		שְׁנוֹת	←	יָשָׁנוֹת∗
"kingdoms of"	מַמְלְכוֹת	=		מַמְלְכוֹת		מַמְלָבוֹת
"blessings of"	בּרְכוֹת	=	בּרְכוֹת	*בְּרְכוֹת	←	בְּרָכוֹת
"tears of"	דִמְעוֹת	=	דִּמְעוֹת	יְדְמְעוֹת*		דְמָעוֹת

Again, other nouns show no distinction between construct and absolute: מָנוֹת "cubits (of)"; מְנוֹת "commandments (of)."

Producing Masculine Singular Nouns with כֶן - and Masculine - כֶן - מָם Masculine - הֵן - הֵם Plural Nouns with - הֵן ,- הֵם

To form masculine singular nouns with the second masculine/feminine plural suffixes (ς , and ς), one takes the construct form of the singular noun and adds the appropriate suffix. To form the masculine plural with the second masculine/feminine plural or third masculine/feminine plural suffixes (ς , ς , and ς , ς , ς), one takes the construct form of the plural noun and adds the appropriate suffix.

					construct	absolute
"your voice"	קוֹלְכֶם	=	-ća	+	קוֹל	קול
"your dispute"	רִיבְכֶם	=	-כֶּם	+	ריב	ריב
"your flesh"	בְּשַׂרְכֶם	=	-כֶּם	+	בְּשַׂר	בִּשָׂר
"your heart"	לְבַרְכֶם	=	-כֶּם	+	לְבַב	לֵבְב
"your glory"	ּכִּבוֹדְכֶם	=	-כֶּם	+	כְּבוֹד	כָּבוֹד
"your dwelling"	מִשְׁבַּבְכֶם	=	-כֶּם	+	מִשְׁכַּב	מִשְׁכָּב
"your house"	בּיתְכָם	=	-כֶּם	+	בּית	בֿיִת
"your midst"	תּוֹרְכֶם	=	-כֶׁם	+	ក្ស	Ļĵ

Singular Noun with Second Masculine/Feminine Plural Suffix

Plural Noun with Second Masculine/Feminine Plural, Third Masculine/ Feminine Plural Suffix

					construct	absolute
"your songs"	שִׁירֵיכֶם	=	-כֶׁם	+	ישִׁירֵי∗	שִׁירִים
"your words"	דִּבְרֵיכֶם	=	-כֶּם	+	דִּבְרֵי	דְּבָרִים
"their words"	דִּבְרֵיהֶם	=	-הֶם	+		
"your enemies"	אֹיְבֵיכֶם	=	-כֶׁם	+	אֹיְבֵי	אֹיְבִים
"their enemies"	אֹיְבֵיהֶם	=	-הֶם	+		

"your God"	אֱלֹהֵיכֶם	=	-ća	+	אֱלֹהֵי	אֱלֹהִים
"their God"	אֱלֹהֵיהֶם	=	-הֶם	+		
"their makers"	עשיהֶם	=	-הֶם	+	עשי	עשים
"your deeds"	מַעֲשֵׂיכֶם	=	-¢ם	+	מַעֲשֵׂי	מַעֲשִׂים
"their deeds"	מַעֲשֵׂיהֶם	=	-הֶם	+		
"your olives"	זֵיתֵיכֶם	=	-¢ם	+	*זיתי	זֵיתִים
"their olives"	זֵיתֵיהֶם	=	-הֶם	+		
"your kings"	מַלְבֵיבֶם	=	-¢ם	+	מַלְבֵי	מְלָבִים
"their kings"	מַלְכֵיהֶם	=	-הֶם	+		
"your tribes"	שָׁבְטֵיכֶם	=	-¢ם	+	שָׁבְטֵי	שְׁבָטִים
"their tribes"	שָׁבְטֵיהֶם	=	-הֶם	+		
"your months"	חָדְשֵׁיכֶם	=	-כֶּם	+	ָקדְשֵׁי	חֶדָשִׁים

Exceptional nouns in the above lists include those with II-*vav/yod* consonants (בָּיָת , הְּטָךָ , וְיָתִים); those with etymological III-*vav/yod* consonants (בָּיָת , הְּטָרָ , תַעֲשָׁים); and the plural segolate nouns. Those not yet mentioned include the geminates and the singular segolates. The geminates exhibit gemination and retention of their historical vowel, as when other suffixes are attached to them (e.g., יַפָּבֶכם, "your children," רְּבָּיָם, "your life"; יָבָרֶם, "your heart"; רְּבָּכָם "all of you"). The segolates exhibit their historical vowel, revealing their historical base, as when other suffixes are attached to them (*qatl [e.g., מַלְבָּכָם, "your king"] *qitl [e.g., הָעָרָכָם, "your midst], *qutl [e.g., שָׁרָכָם, "your food"]).

Producing Feminine Nouns with Suffixes

To form the feminine singular noun with (non-"heavy") suffixes, begin with the construct singular form. Change the final π_- to π_- and add the appropriate suffix.

							construct	absolute
"my sleep"	שְׁנְתִי	=	^۲	+	-יִשְׁנְת	←	שְׁנַת	ישֵׁנָה∗
"their sleep"	שְׁנָתָם	=	-ָם	+	-ּשְׁנָת*	←		
"her year"	שְׁנ ְתָה	=	- ָה	+	-יִשְׁנָת	~	שְׁנַת	שְׁנָה
"his year"	שְׁנָתוֹ	=	i-	+	-ּשְׁנָת*	←		
"my blessing"	בּרְכָתִי	=	`	+	+בּרְכָת-	←	בּרְכַת	בְּרָכָה
"your (ms) blessing"	<u></u> <u></u> <u></u> <u></u>	=	₹	+	-≉רְכָת∗	←		
"my labor"	אַבׂדָתִי	=	`	+	-אֲבֹדָת	←	אֲבֹדַת	אֲבֹדָה
"their labor"	אַבׂדָתָם	=	-ָם	+	-אֲבֹדָת	←		
"my tears"	דִּמְעָתִי	=	۲	+	-ਸਪ੍ਰਸ਼*	←	דִמְעַת	דִּמְעָה
"her tears"	<u></u> דְּמְעָתָ ה	=	- ָה	+	-ਸਪ੍ਰਸ਼*	←		
"his burnt offering"	עֹלָתוֹ	=	i-	+	-ּעֹלָת	←	עֹלַת	עֹלָה∗

Mem-prefix nouns have a segolate-like ending in the construct (abs. מַמְלָכָה "kingdom," const. מַמְלָכָה "kingdom [of]") and the form with suffixes also has a segolate-like ending (מַמְלָכָתוֹ). To form the feminine noun with heavy suffixes, begin with the construct singular form and add the second masculine/feminine plural suffix: שָׁבֹדַת \rightarrow שָׁבֹדַת (mp) labor."

To form feminine plural nouns with suffixes (whether heavy or not), take the construct form of the plural noun and simply add the suffixes that occur on the masculine plural noun (including the reflex of the historical *-ay- dual ending): אָלָת "tears of" \rightarrow דָּמְעוֹתָ "sour (ms) tears"; שׁלָת "burnt offerings of" \rightarrow בָּרְכוֹת "your (ms) burnt offerings"; "blessings of" בָּרְכוֹת "your blessings."

Producing the Qåtal Verb Form

Usually, producing verbal forms is much easier than producing nominal forms. The finite verbs are inflected for person, number, and gender through suffixal and prefixal components on the verbal stem that are consistent across different verb classes and conjugations (or, *binyanim*).

The paradigm of the *qåțal* (or, perfect) can be divided into two basic parts: third-person forms and everything else (i.e., second- and first-per-

son forms). The third-person forms are also divisible into two parts: the third masculine singular, on the one hand, and the third feminine singular/third common plural on the other. The third masculine singular form is the "dictionary form" of the word (i.e., the form that is listed in the dictionary and which is memorized in vocabulary lessons [e.g., "שָׁמָר" "he guarded"]); the third masculine singular, therefore, often constitutes the point of comparison for the other forms. The third feminine singular and third common plural of any given verb differ only in their ending (*qamets^{he}* for 3fs and *shureq* for 3cp). In other respects they are almost always identical and can be thought of as a pair. They almost always exhibit the same vowel sequence within the verbal stem. If one knows the form of the third feminine singular, one will be able to predict the form of the set tone/stress and the vowel of the penultimate and pretonic syllable reduces (e.g., "שָׁמָר" "she guarded" and "and " they guarded").

The other major category of the *qåtal* is represented by the second- and first-person forms. Most second- and first-person forms attest the same vowel sequences within the verbal stem. The forms are usually penultimately accented and exhibit a *patakh* in the last syllable of the stem (e.g., שׁמָרָם). This is incredibly regular, across all the different conjugations (e.g., שָׁמָרָת "you guarded" [qal]; דְבָּרָת "you spoke" [piel]; הָקַרָּבָת "you brought near" [hiphil]; גְשָׁמְרָהַ "you were on guard" [niphal]; שַׁלָחָתִי "I was sent away" [pual]; וְהָתְחַלָּקָתם "we were humiliated" [hophal]; וְהָתְחַלָּקָתם "you should take courage" [hithpael]). The same regularity is found in the other second- and first-person forms. The one exception to this regularity is the pair of second plural forms (2mp/2fp), which are accented on the final, suffixal element (שָׁמַרָהָם). In these forms (e.g., שֶׁמַרָהָם), the initial syllable of the word will contain a shewa (unless it is a closed syllable, as in the piel, e.g., שמרתם). The reason that the verbal suffixes התום). and התו attract the tone or stress is that they are heavy suffixes, composed of the sequence consonant-vowel-consonant, just like the suffixes כֶם and יכֵם on nouns.

The predictability of the paradigms means that often it is enough to memorize the first three forms of any *qåtal* paradigm (i.e., the 3ms, 3fs, 2ms).¹¹ The third masculine singular is important because it is the "dictionary form" and will sometimes exhibit a vowel different from the

^{11.} Although organizing the verbal paradigm so that it begins with the 1cs form and then continues to the 2ms, 2fs, 3ms and 3fs has become more popular in recent grammars due to the familiarity of this sequence in other modern languages (as well as

second- and first-person forms (e.g., שָׁמֵר and שְׁמֵר). From the third feminine singular one can predict the third common plural (from שָׁמְרָה one can predict (שִׁמְרָה and from שִׁמְרָה one can predict (שִׁמְרוֹ); the second masculine singular will demonstrate the vowel sequence for most of the other forms (from שְׁמַׁרְתָּ one can predict שְׁמַׁרְתָּ and from שָׁמַרְתָּ one can predict שִׁמַׂרְתָּ, etc.).

The vowel patterns of the different conjugations or *binyanim* are also important to memorize. Since the Hebrew conjugations or *binyanim* (aside from the *qal* = "simple [conjugation]") are named after the form of the verb "פעל" to do, make" in the third masculine singular *qåtal*, these names (*piel*, *hiphil*, etc.) can serve as ready mnemonic devices for recalling the vowels of the *qåtal* third masculine singular (as well as sometimes the *yiqtol* and related forms). Thus, the *piel* (פַּעָל) exhibits the sequence *hireqtsere* in the *qåtal*; the *hiphil* (הְפָעָל) the sequence *he-hireq-hireq*^{yod}; the *niphal* (הְפָעַל) the sequence *nun-hireq-patakh*; the *pual* (בְּעַל) the sequence *qibbuts-patakh*; the *hophal* (הְפָעַל) the sequence *he-qamets khatuf-patakh*; the *hithpael* (הַתְּפָעָל) the sequence *he-hireq-tav-patakh-tsere*. Other common features, include the following.

- 1. The conjugations associated with an active sense (*piel, hiphil, hith-pael*) are characterized by an /i/ class vowel in the last syllable of the third masculine singular *qåṭal*, whereas those associated with passivity (*niphal, pual, and hophal*) have a *patakh* in the last syllable.
- In the *qåṭal*, the /i/ class vowel associated with "active" stems appears only in the third masculine singular.
 In the third feminine singular and third common plural one usually finds a *shewa* (e.g., דְבָרָה and דִבְרָה).
 In the second- and first-person forms, a *patakh* appears in this same slot (e.g., דְבַרָהי.).

Furthermore, it should be noted that the vowel sequences for the *pual*, *hophal*, and *hithpael* are the same in all verbal forms (not only *qåţal* and *yiqtol*, but also the impv., infs., and ptc.). In essence, if you can remember the name of the stem, you have a good chance of being able to produce the vowels of the verbal form.

for other reasons), the above observation suggests that organizing the verbal paradigm beginning with the 3ms also has its pedagogical benefits.

Producing the Wəqåtal Verb Form

This verb form is identical to that of the *qåtal*, with one slight exception. In the second masculine singular and first common singular forms, the accent falls on the final syllable (not the penultimate syllable). This usually has no effect on the vowels. That is, the initial vowel does not reduce, as one might expect. Thus, we find וָאָמַרְהָׁ "you will say." Rarely one does see a slightly different form, as with the *waqåtal* form יֶכָּלְהָ (e.g., Ps 40:13).

Producing the Yiqtol Verb Form

The inflection of the imperfect or *yiqtol* forms is even more straightforward than that of the *qåtal*. Only the final stem vowel of the *yiqtol* reduces to *shewa* and then only where the suffixal element of the verb form consists exclusively of a vowel. This applies to all the conjugations except the *hiphil*. For example, note the *qal* forms: יָכָתְבוּ (the 3ms), versus יִכְתְבוּ (the 2fs), יִכְתְבוּ (the 3mp), and יִכְתְבוּ (the 2mp); the *niphal* forms: יִכְתְבוּ it will be written" (the 3ms) versus יִכְתְבוּ (the 1 forms: יִכְתְבוּ it will be written" (the 3ms) versus יִכְתְבוּ and the *piel* forms: יִכְתְבוּ יִכָּתְבוּ יִכְתַבוּ versus יִכְתַבוּ יִכָּתְבוּ זַיָּכַתְבוּ הַנָּתְבַי , יִכְתְּבוּ nd the *piel* forms: יִכְתַר וּ שׁׁרָ שִׁרָ הַיָּרָ יִכָּתְּבוּ יָכָתְבוּ זַיָּכָתְבוּ אַכָּתְבוּ יָכָתְבוּ אַרָּ אַכָּתְבוּ זַיָּכָתְבוּ אַכָּתְבוּ זַיָּכָתְבוּ זַיָּכָתְבוּ versus יִכָּתְבוּ יִכָּתְבוּ זַיָּכָתְבוּ הַיָּכָתְבוּ זַיָּכָתְבוּ זַיָּכָתְבוּ זַיָּכָתְבוּ זַיָּכָתְבוּ זַיָּכָתְבוּ זַיָּכָתְבוּ זַיָּכָתַבוּ זַיָּכָתְבוּ זַיָּכָתְבוּ זַיָּכָתַר זַרָרָאָביי, יִכְהָאָבוּ זַיָּכָתְבוּ זַיָכַתְּבוּ זַיָכָתִבּוּ זַכָּתַר זַיָּכָתִבוּ זַיָכַתְּבוּ זַיָּכָתְבוּ זַיָּכָתְבוּ זַיָּכָתְבוּ זַיָּכַתְּבוּ זַיָּכַתְּבוּ זַיָּכָתַבוּ זַיָּכָתַבוּ זַיָּכַתָּבוּ זַיָּכָתָבוּ זַרָּרָ זַכָּתַר זַיָּכָתְבוּ זַרָּמַרָ זַרָּרָ זַרָּרָהָרָ זַרָּרָ זַרָּרָרָ זַרָּרָ זַרָּרָרָ זַרָ זַרָּתָרָ זוּ זַרָּתַרָּ זַר זַרָרָ זַרָּרָזָבוּ זַרָּרָ זַרָּרָזי זַכָּתַר זַיָּרָ זוּ זוּזוּ זַרָּרָ זַרָּרָירָ זַרָּרָרָרָוּ זַרָּרָרָ זַרָּרָר זַרָּרָרָ זַרָ זַרָּרָרָ זַרָ זַרָ זַרָ זַרָּר זַרָרָ זַרָ זַרָר זוּזּקר זַר זוּזוּ זַרָּר זַרָּרָר זיַרָּרָ זַרָר זוּ זוּז זַר זייַר זַר זוּ זַרָ זַרָ זַר זַרָ זַר זוּ זוּ זוּ זוּז זַר זוּ זוּ זוּ זוּ זוּין זּין זוּ זוּין זַר זוּ זוּ זוּ זוּז זוּין זַר זוּין זַר זוּ זוּר זוּ זוּז זַר זוּ זוּרָ זוּ זַין זוּ זוּ זוּאוּג תַכָּתְיּרָי זַין זַין זוּ זוּ זוּוּ זוּ זוּין זוּין זוּ זוּין זוּ זוּין זוּין זין זוּ זוּין זוּ זוּין זוּ זוּין זוּ זוּין זוּ זוּין זוּין זוּוּ זוּוּז זוּין זוּין זוּ זוּין זוּ זוּ ז

The *piel*, *hiphil*, and *niphal* all attest a sequence of vowels in the *yiqtol* and related forms that is distinct from that of the *qåtal*. The *piel* attests (*shewa*)-*patakh-tsere* (e.g., יְשָׁמֵר); the *hiphil patakh-hireq*^{yod} (e.g., 'יָשָׁמֵר'); and the *niphal hireq-qamets-tsere* (e.g., 'יָשָׁמֵר'). In the graphic realization of the first syllables in the *yiqtol*, the *piel* appears to be the reverse of the *hiphil*: while the *piel* has a *shewa* followed by a *patakh*, the *hiphil* has a *patakh* followed by a silent *shewa*.

Producing the Short-Yiqtol and Wayyiqtol Verb Forms

For most strong roots (and roots with gutturals) in the *qal*, the short-*yiqtol* (used primarily in its jussive function and seldom in its preterite function) and the *wayyiqtol* (or *vav*-consecutive imperfect) are identical to the form of the regular *yiqtol* (e.g., יָשָׁמֹר, יָשָׁמֹר, "שׁׁמֹר," "he will guard," "let him

guard," and "he guarded."). In weak roots (especially II- and III-vav/yod roots) and throughout the *hiphil*, however, the short-yiqtol and wayyiqtol are graphically and phonetically shorter than the yiqtol (יָקום, יָקום, יָקָם, יָקָם, יָקָם, יָשָׁשָׁה, "he will arise," "let him arise," and "he arose" [*wayyāqom] and יַשָּשָׁה, 'יַשָּשָׁה will do," "let him do," and "he did").

Producing the Imperative

The BH imperative is based on the second-person forms of the (short-) yiqtol. Essentially, the imperative is the yiqtol minus the prefix. Thus, if one starts with הַשָּׁמֹר (you will guard," to form the imperative one simply subtracts the prefix, resulting in שָׁמֹר following this method, in the qal the feminine singular and masculine plural result in a sequence of two shewas that reduce according to the "rule of shewa" (i.e., ס-ס > i): שָׁמָר (you will guard" minus the prefix results in הַשְׁמְרִי "guard!"; similarly the masculine plural: הַשְׁמְרִי "guard!"; similarly the masculine plural: הַשְׁמְרִי "guard!"; similarly the masculine plural: הַשְׁמְרִי "guard!" the prefix results in הַשָּמְרָי the prefix results in הַשָּמְרָי "guard!" the prefix results in הַשָּמְרָי the prefix results in הַשָּמְרָי לשׁמְרָי which resolves into

The same patterns are found for *yiqtol* verbs with *patakh* and *tsere* theme vowels in the *qal*. With *patakh*: אָשְׁמָח "you will rejoice" and the imperative אָמָח "rejoice!"; הָשָׁמָח and הִשָּׁמָח. With *tsere*: אָמָח "you will give" and the imperative (give!"; הַשָּׁמָח and הַתָּוּ tsere: הָתוּ (give!"). In the latter case, the *yiqtol* form attests the assimilation of the *nun*, though in the imperative the *nun* is lost altogether. The same principle, however, seems to be at work: the prefix component of the *yiqtol* is subtracted to form the imperative.

These patterns are consistent for most derived conjugations, including the *niphal*, the *piel*, and *hithpael*. Note, for example, the *piel yiqtol* and imperative: אָדַבר "you will speak" and דַבר" "speak!" In the case of the *niphal* and *hithpael*, the imperative loses the consonantal component of the prefix, but retains its vowel by means of an initial *he*. Thus, the *niphal yiqtol* and imperative: אָשָׁמֵר" "you will be on your guard" and "means" "be on guard!"; the *hithpael*, "it will go" and "הַשְּׁמֵר" The *niphal* imperative is also frequently attested with penultimate accent "be on guard" (Deut 24:8 and passim), probably related to the accentuation found sometimes in the *wayyiqtol*. Compare, for example, "fight" (Judg 9:38) and "fight" (Josh 10:38).

In essence, since the third masculine singular/plural *yiqtol* forms are similar to the corresponding second-person forms in all but the conso-

nantal prefix element (e.g., יָשָׁמָר [3ms] vs. [2ms]; יַשָּׁמְר [3mp] vs. [2mp]), one can simply remember the third masculine singular/ plural forms and derive from these the basic forms of the imperative (e.g., שָׁמָר and יָשָׁמָר s well as יָשָׁמָר and יָשָׁמָר).

Summary for Producing Verbal Forms

The following chart summarizes the basic correspondences discussed in the preceding paragraphs.

	Qåțal		
2ms (+ other forms)	3fs and 3cp	3ms	conjugation
			qal
שָׁמַ ּר ְתָּ	שָׁמְרָה	שָׁמַר	
שָׁמַרְתְ	שָׁמְרוּ		
שְׁמַׁרְתִּי			
שְׁמַׂרְנוּ			
שְׁמַרְתֶּם // שְׁמַרְתֶּן			
			piel
ڣؘڟٟ۫ڔڣ	שִׁמְרָה	שָׁמֵר	1
<i>אַמַ</i> רְהָ	י שִׁמְרוּ		
שׁמַּרְתִּי			
שִׁמַּ רְנוּ			
שָׁמַרְהֶּם // שִׁמַרְהֶּז			
			1 • . 1 • 1
			hiphil
הִשְׁמַּרְתָּ ביוויניבר	הִשְׁמִֿירָה ביוויגֿיובי	הִשְׁמִיר	
הִשְׁמַ֫רְתָּ ביווייי בבי	הִשְׁמִׁירוּ		
הִשְׁמַׁרְתִּי			
הִשְׁמַּרְנוּ בייירבבעע בייירבבע			
הִשְׁמַרְתֶּם // הִשְׁמַרְתָּז			

struct		-	1.	D D
	-	Forms endin	-	Forms En with -ū o
		Consonant		witii - <i>u</i> (
yiqto	יִשְׁמֹר		יִשְׁמְרוּ	
		תִּשְׁמֹר		ּתִּשְׁמְרִי
		אֶשְׁמֹר		תִּשְׁמְרוּ
		תִּשְׁמֹרְנָה		
		נִשְׁמֹר		
short-yiqto	יִשְׁמֹר			
		תִּשְׁמֹר		
imperative	שְׁמֹר		שָׁמְרִי	
		שְׁמְרְנָה		שִׁמְרוּ
infinitive construct	שְׁמֹר	••••		·
struct	initive Con	Imperative, Inf	Piel Yigtol, I	
		Forms endi	-	Forms En
	e	Consonant	U U	with $-\bar{u}$ of
yiqto	יִשַּׁמֵר		יְשַׁמְרוּ	
	•	ה ִשַׁמֵּר	•••	תִּשַׂמְרִי
		אַשַׁמֵר		ּתְשַׁמְרוּ
		<u></u> תִּשַׁמֵּרְנָה		: - :
		7 1		
		נשמר		
short-yiqto	ילטהור	נְשַׁמֵּר		
short-yiqto	יְשַׁמֵּר	·		
short- <i>yiqto</i> imperative		נְשַׁמֵר הְּשַׁמֵר	<i>נ</i> יומרי	
	יְשַׁמֵּר שַׁמֵּר	؋ؚٮ۬ؗ۬ڟۣڟۣڗ	שַׁמְרִי	
imperative	שַׁמֵר	·	שַׁמְּרִי	<u>שַׁמ</u> ְרוּ
imperative	שַׁמֵר שַׁמֵר	؋ؚٮ۬ؗ۬ڟۣڟۣڗ	לשַׁמְּרִי	שַׁמְרוּ
imperative	שַׁמֵר	؋ؚٮ۬ؗ۬ڟۣڟۣڗ	שַׁמְּרִי	שַׁמְרוּ

onstruct	Infinitive C	<i>l</i> , Imperative,	Hiphil Yiqtol	1
	ling with	Forms enc Consonar	nding	Forms E with -ū
yiqtol	יַשְׁמִיר		יַשְׁמִירוּ	
	-	הַשְׁמִיר	-	הַּשְׁמִֿירִי
		אַשְׁמִיר		הַשְׁמִירוּ
		נַשְׁמִיר		
short-yiqtol	יַשְׁמֵר			
		תַּשְׁמֵר		
imperative	הַשְׁמֵר		הַשְׁמִירִי	
		הַשְׁמֵׁרְנָה		הַשְׁמִירוּ
infinitive construct	הַשְׁמִיר			
infinitive absolute	הַשְׁמֵר			
participle	מַשְׁמִיר			

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