An Exhaustive Study of the Environment of the Daggesh in Biblical Hebrew

by James D. Price (March, 1996)

In recent discussions of the phonetic values of the vowel signs in Biblical Hebrew, it was suggested that the signs, such as the daggesh and shewa, should be regarded as having only one value. This proposal was based on the assumption that initially a symbol should be regarded as having only one value unless indicated otherwise. However, it was pointed out that the Masoretes apparently intended that their symbols have different values based upon position. For example, the single dot has various values based upon position:

- (1) below a letter: the vowel i.
- (2) above and left of a letter: the vowel ò.
- (3) above waw: the long vowel ô.
- (4) within waw: the long vowel û.
- (5) above the right corner of s to denote shin.
- (6) above the left corner of s to denote sin.
- (7) above the center of a letter: the accent rebia.¹
- (8) higher above a letter: niqqud.²
- (9) within a letter: daggesh.
- (10) within final He: mappig.

The same is true for several other Masoretic signs.³

Traditionally daggesh and shewa have been regarded as having different values based on environment. But environment really is just a more complex form of position. If these signs can be shown to have distinctive environmental positions, then it follows that they also may have different values based upon those environmental positions. This study concentrates on the environments of the daggesh.⁴ It demonstrates statistically that daggesh has at least two distinctive environments: (1) a unique environment for the bgdkpt letters, and (2) an environment for all other letters. So daggesh possibly has two different values as tradition maintains.

For this study, I wrote a computer program to isolate the environments of the

¹ In printed editions, rebia is a distinctively different dot, but not so in manuscripts.

³ In the accents, silluq and metheg have the same sign but different positions; mahpak, yethib, and ole have the same sign but different positions; so also for pashta and azla, and so forth.

daggesh. The program examines every instance of daggesh in the Hebrew Bible⁵ and determines its environment by examining the eight characters preceding it, and the three characters following it. It evaluates vowels, shewas, consonants, accents, and spaces to determine in which environment the given daggesh occurs. The logic of the program is quite tight, so as not to let subtle variations slip by unnoticed. It records (by count) which environment the daggesh is in, and it flags and records any anomalous instances. The program assumes that the traditional view is correct, and the resultant statistics demonstrate that this assumption is true. It is not likely that any other definition of the environment would fit the data as well. The first section of this report describes the environments of daggesh.

As a supplement to this study, the program also isolates the environment of the bgdkpt letters without daggesh. This provided positive validity for the unique environment for the bgdkpt letters. The second section of this report describes that environment.

The Environment of Daggesh

This section describes the environments of the daggesh as used in Biblical Hebrew. The environments are as follows:⁶

- (1) \#B.. or cv/cv#B..
- (2) cvc:B.. or cvacv:B..
- (3) cvL..
- (4) #L..

Environment 1

In this environment B is an initial bgdkpt letter at the beginning of a verse, or preceded by a word with a disjunctive accent, or preceded by a word ending with a vowel and having a conjunctive accent not on the last syllable. This corresponds with what is traditionally known as initial daggesh lene. It is the most common environment for B. There were 47,705 instances in this environment with only 85 exceptions: 36 instances where daggesh lene follows a word with a final vowel with a conjunctive accent; these are listed later, and 49 instances where daggesh lene followed the divine name YHWH with a conjunctive accent; these are listed later. This may provide an interesting study. The other instances flagged by the computer turned out to be in conformity with the environment. Thus daggesh lene is 99.82% consistent in this environment.

Environment 2

In this environment B is a medial (but not final) bgdkpt letter preceded by silent shewa, that is, a shewa preceded by a vowel usually without Metheg.⁷ The second

⁵ The text used was the Westminster text as transliterated into the character set for the LaserHEBREW (r) for WINDOWS(tm) produced by Linguist's Software, Inc.

⁷ This part of the study assumes the validity of silent shewa. The supplemental study of the bgdkpt letters

alternative accommodates quiescent Aleph. This corresponds with what is traditionally known as medial daggesh lene. There were 14,842 instances of medial daggesh lene following silent shewa. The computer flagged 12 instances where this environment failed. In most cases, the failure was due to the presence of a hateph vowel rather than the expected full vowel before the shewa. Most of these are found to be full vowels in other editions. The variants are listed later. Thus daggesh lene is 99.92% consistent in this environment.

If it may be assumed that environments one and two are essentially the same, then in both environments the bgdkpt letter lacks a vowel sound immediately before it. This supports the traditional view that in this environment the shewa is indeed silent.

Environment 3

In this environment L is a medial (but not final) letter preceded by a consonant with a vowel. Traditionally the daggesh in this environment is known as daggesh forte, and this use of the daggesh is regarded as a syllable closer. This is the almost exclusive environment of L. There were 68,400 instances of daggesh forte in this environment. The computer flagged 25 variations from this environment which are listed later. Thus daggesh forte is 99.96% consistent in this environment.

Environment 4

In this environment L is an initial letter following a closely related word, never at the beginning of a verse. Traditionally the daggesh in this environment is known as daggesh conjunctive. This daggesh is used rather infrequently and occurs only in special constructions described in GKC art. 20. These include all words following the interrogative particle \(\pi_1\), and a few monosyllables closely linked to the preceding word, such as \(\pi_1\), \(\pi_1\), and \(\pi_1\). The computer counted 1,041 occurrences, but did not catalog the various constructions. The computer flagged 13 instances of daggesh conjunctive with a bgdkpt letter. These are listed later, but are not errors; they should be included in the overall count. It is likely that this environment may be regarded as essentially the same as environment three, that is, the consonant is preceded by a closely linked vowel. However, the program did not determine that there was a closely linked vowel in every case.

Daggesh in Aleph, Resh, and He

Contrary to convention, daggesh occurs in medial He once, in Aleph three times, and in Resh 17 times--9 times as daggesh forte, and 8 times as daggesh conjunctive. These instances are listed later.

Conclusion

If one accepts the existence of a silent shewa, the following conclusion can be drawn: When taken into account with the evidence from the spirantized bgdkpt letters, the evidence for the daggesh indicates that there are three distinct environments in which it functions: (1) the environment of the BGDKPT letters, either initially or medially, where it occurs when these letters have no vowel preceding them and it does not occur otherwise; (2) the environment of any letter (except the laryngeals) where it occurs when a full vowel precedes; and (3) the environment of any letter (except the laryngeals) where it occurs in an initial letter following a closely related word in special conditions. However, it is possible that the third environment is a special case of the second.

These environments correspond with the traditional classification of the daggesh: (1) daggesh lene; (2) daggesh forte; and (3) daggesh conjunctive. It is concluded that the statistics confirm and validate the traditional classification of the daggesh.

Totals:

47,705

Summary of the Data for Daggesh

Totals cvL = 5067#B = 2878 cvc:B =835 #L = 10112 Tot = 8881Gen: errs = #B = 2345 cvc:B = 887 cvL = 4008#L =Tot = 7306Exod: 66 errs = 16 cvL = 2826#L =Tot = 5138Lev: #B = 1722 cvc:B =546 44 errs = 5 Num: #B =2605 cvc:B =837 cvL = 3572#L = 66 errs = Tot = 7080Deut: #B =2213 cvc:B =755 cvL = 2735#L = 44 errs = 18 Tot = 5747#B = 1437 cvc:B =cvL = 2311#L =Tot = 4258Josh: 495 15 42 errs = cvL = 2705Tot = 4633Judg: #B =1426 cvc:B =455 #L =47 errs = 18 Ruth: #B =170 cvc:B =74 cvL = 395#L =6 5 Tot =645 errs = 1Sam: #B =1958 cvL = 3450#L =Tot = 6158cvc:B =681 69 errs = 84 2Sam: #B = 1713 cvc:B =441 cvL = 2964#L = 61 95 Tot = 5179errs = #B = 1942 cvc:B =555 cvL = 3352#L = 44 29 Tot = 58931Kings: errs = 1758 cvL = 3336#L = Tot = 5548#B = cvc:B =414 40 35 2Kings: errs = #B = 1642 cvc:B =444 cvL = 2157#L = 26 30 Tot = 42691Chr: errs = #B = 1965 cvc:B =cvL = 3429#L = Tot = 58702Chr: 460 16 errs = 35 #L = $\#\mathbf{B} =$ 712 cvc:B =209 cvL =794 32 Tot = 1723Ezra: 8 errs = Neh: #B = 747 cvc:B =cvL = 1332#L =10 11 Tot = 2316227 errs = #B =cvc:B =887 #L =Tot = 1612Esther: 466 244 cvL =15 errs == 16 Tot = 3627Job: #B = 1346 cvc:B =468 cvL = 1767#L =46 errs = 41 Psalms: #B = 3466 cvc:B =1151 cvL = 3593#L = 104errs = 101Tot = 8314Prov: #B =1379 cvc:B =311 cvL = 1115#L = 27 errs = 60 Tot = 2832Eccl: #B = 508 cvc:B =105 cvL =566 #L =errs = 9 Tot = 1181Song: #B = 250 cvc:B =75 cvL =324 #L =3 errs = 9 Tot = 652 #B = 2793 cvc:B =cvL = 3226#L =43 errs = 36 Tot = 6943Isaiah: 881 $\#\mathbf{B} =$ 3539 cvc:B =cvL = 4224#L =Tot = 8808Jer: 992 53 errs = 85 #B = 319 cvc:B =298 #L = Tot =694 Lam: 73 cvL =4 errs = 11 cvL = 3934#L =Tot = 8082#B = 3106 cvc:B = 101032 85 Ezek: errs = 991 cvL = 1213#L =3 53 Tot = 2693Dan: #B = cvc:B =486 errs = #L = Tot =992 Hos: #B =417 cvc:B =136 cvL =426 13 errs = 2 #L =Tot = #B = cvc:B =cvL =173 3 0 377 Joel: 158 43 errs = #L =813 Amos: #B =319 cvc:B =123 cvL =365 6 errs = 0 Tot =cvL =#L =Tot =115 Obad: #B =61 cvc:B =11 41 2 errs = 0 306 #B =cvc:B =cvL =199 #L = 9 0 Tot =Jonah: 60 38 errs = Micah: #B =239 cvc:B =56 cvL =264 #L =3 errs = 6 Tot =562 Nahum: #B = 103 cvc:B = 26 cvL =122 #L =0 errs = 2 Tot =251 #B = 119 cvc:B =39 cvL =139 #L =5 Tot =300 Hab: 3 errs = 129 #L =5 Zeph: #B = 149 cvc:B =52 cvL =0 errs = Tot =330 91 cvc:B =143 #L =Tot =Hag: #B = 28 cvL =0 errs = 0 262 470 #L =5 8 Tot = 1270Zach: #B =cvc:B =126 cvL =669 errs = Mal: #B =123 cvc:B =53 cvL =150 #L =2 errs = 1 Tot = 328

Note: The errors are not included in the final totals. They include all the instances where the computer flagged an apparent anomaly, some of which turned out to be consistent with the environment.

68,400

1,041

1005

131,988

14,842

List of Errors for Daggesh

Instances Where a Vowel Appears Before Initial Daggesh Lene

I. Instances of daggesh lene following a word with a final vowel marked with matres lexiones He or Aleph, the final syllable of which has a conjunctive accent:

Exod 14.4	بَحِرِ لا ال	Exod 14.17	
Exod 15.1	בְּאָׁדִ	Exod 15.21	נְאָד
Lev 5.2	خنخظِ بر	Josh 17.2	الله الله الله
1Sam 25.36	تب براز	2Sam 18.25	וֹבְ בַּירוּ
1Kings 10.3	posed scand proced	1Kings 12.16	ب بازنی و
1Kings 12.33	בבית־אֱל	1Kings 18.44	כַכַף־אָישׁ
1Chr 7.23		2Chr 10.16	֡֝֝֡֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓
2Chr 25.19	<u> </u>	2Chr 34.17	ن ن ال أِل الْ
Neh 11.24	בּן־מִשִּׁיזַבְאֵב	Job 21.21	<u>بَ بَ بَ بَ</u>
Job 39.15	תרישה	Psalms 10.7	الم الم الم
Psalms 10.13	:תַּדְרָשׁ		-
Psalms 34.2	ים [this one	e follows Holem with	conjunctive accent]
Psalms 35.17	תֿר אָה	Song 8.11	بأخ سأ تخا بنا
Isaiah 10.9	בְּכַרִבְּ בְז ^{ְּ} יִשׁ	Jer 3.25	בְבְישְהָנר
Jer 32.6	<u>וְּבַר־יִּרוֹנְרוּ</u>	Ezek 4.14	ACCOUNT ACCOUNT
Ezek 25.8	כְּבֶל־הַגּוֹ יִם	Dan 2.31	ا ج
Dan 3.2	لنتئت	Dan 3.5	בְּסַנְתֵּוֹרִיּ לְ
Dan 5.11	חַכְמַת־אֶלְ הִין	<u>.</u>	,
Micah 6.12	בֹבּי וְם:	Zeph 3.13	السرس السرال
Mal 2.6	بَ جُ رَارَ		·
Total = 36 instances			

Total = 36 instances.

II. Instances where initial daggesh lene occurs after YHWH with a conjunctive accent:

Num 10.29 Josh 10.30		Deut 3.26 Josh 11.8	ب ســـددن
1Sam 11.13	הָשׁרְעַה	1Sam 12.5	
1Sam 17.46	ty my ty my	2Sam 24.15	بُ بَيْ ر
1Kings 17.24	T Down	2Kings 5.1	חְשׁוּ עָה
2Kings 17.25		Psalms 2.11	تزر قل
Psalms 7.18	לאַדְאָי	Psalms 12.8	הַשְׁבְי רֶם
Psalms 18.21	כצד קי	Psalms 19.8	וְּגִייִבְוּה
Psalms 19.9	and	Psalms 26.1	بخُولَانِح

D 1 00 4	tone ton, true	D 1 217	• for placent describe (# 3r) person
Psalms 29.4	لينا	Psalms 31.7	1/3:11:15
Psalms 33.2	בְּכִנְוֹר	Psalms 34.2	בְּכְל־ עֶת
Psalms 35.5	:וון זיו	Psalms 37.5	TP TT
Psalms 54.8	-, <u>-</u> ,	Psalms 88.10	
Psalms 98.5	المَا يُرابِ	Psalms 100.2	בְּעִּבְ חֲה
Psalms 104.31		Psalms 104.33	7.7
Psalms 106.1	ترد_مرزر	Psalms 106.40	
Psalms 107.1	בַּרַ־עֻּׂוֹב	Psalms 109.15	רַ בֻּיּד
Psalms 118.1	تر ترکی ت	Psalms 118.29	בָּי־מֻוֹב
Psalms 127.3	בָּלֶם בִּי	Psalms 132.13	
Psalms 136.1	ت در سرات	Psalms 143.11	יוֹי גְיִי
Psalms 146.2	,	Psalms 147.7	
Psalms 149.4	İ	Prov 24.21	7
Isaiah 5.25	בְעַבוֹי	Lam 1.20	ذر جرز
Ezek 24.14	نجَلَن	Hos 5.7	تِنِ
Micah 1.2			
Total = 49 instances.			

III. Instances where daggesh lene follows a word accented with Ole-WeYored, a disjunctive accent, where the computer flagged it as an error, but which is actually correct. The computer was not able to clearly identify Ole-WeYored.

Job 14.14	7777	Psalms 9.17	בְּבָעַל
Psalms 30.6	֡֝֝֝֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	Psalms 31.11	T T
Psalms 44.4	ביין בויון	Psalms 56.5	בַּאל הַים
Psalms 78.8		Psalms 85.9	4) 880) ×
Psalms 97.7	בָּל־מֶּל הִים:	[this one follows defeat	ctive Rebia Mugrash]
Psalms 101.7	ALEXTRA MERCEN	Psalms 135.6	Committee of the commit
Prov 1.21	ئر نان		
Total = 12 instances			

Instances Where Medial Daggesh Lene Has an Anomalous Environment

Exod 30.8		Lev 25.46	וֹטִתְּטֶׁם
Num 9.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Judg 11.35	הְ יִיתְ הִּנְּכְרֶי
2Sam 3.27	way way	1Chr 11.44	הָעַיִּישְׁרָ תֻי
Job 7.21	וְשַׁבְיּי	Prov 30.6	אַל־תִוֹסְףְּ
Jer 22.24			·
Ezra 4.12	וֹבְאישׁתָא [OK but st	range quiescent Aleph]

Psalms 92.3-- ブラロ [OK but with strange Metheg]
Zach 8.14-- [OK but the accent is misplaced]

Total = 12 instances.

Instances where Daggesh Forte appears anomalous

Gen 4.18	רכוחייאל	Gen 27.29	וישתחוו
Gen 49.8	י <u>רבות ה</u>	Exod 4.31	ו ישתחוו:
Exod 12.27	י ישה ביים ביים ביים ביים ביים ביים ביים ביי	Exod 33.10	וַ הַשׁתַּחוֹוּנ
Lev 26.34	רַשַּׁבּוּה בּשׁבּוּה	Num 25.2	י ישתחרר
Deut 29.25	וַ יִּטֹׁתַחַוָּרָ		, , , ,
Ruth 3.9	הי־אָת [daggesh OK	but lacks shewa with	Taw]
1Sam 17.31	רַי שַׁבוּע וּ	1Chr 11.28	העַנְתוֹ תִי:
1Chr 12.3	בית ביי	Psalms 22.30	וַ יִּשְׁתַּחַוֹּהוּ
Psalms 119.69	NET	Song 2.9	מְן־הַהַ לַנוֹת
Song 5.2	קנשרתי	Isaiah 46.6	ישתחורי
Isaiah 49.7	ָרְיִ ִּ עָׁתַתְּרָּר	Jer 3.17	ונקור
Jer 29.27	הַעַּנִת הָּי	Jer 50.11	כמב רים:
Ezek 18.29	יִּ רַבְּבָּוֹ וּ	Ezek 40.25	כָהַחֲ לּנְוֹת
Dan 2.10	לְבֶל חַרְּטִׁם		, , ,
Total = 25 instances	, ,		

Total = 25 instances.

Errors Related to Daggesh Conjunctive

The following are instances where daggesh conjunctive occurs in a BGDKPT letter which the computer flagged as errors, but which are actually correct.

Josh 7.9	ומה פע שה	Judg 18.14	מה-תעשו:
1Sam 25.17	בוה־תַּצִּשִּׁי	1Sam 28.14	בַּה תַּצֵּרוֹי
Job 9.12	מַה־פַּעֲ שֶׁה:	Prov 31.2	וֹמָה־בַּר־בִּטְ נָי
Eccl 8.4	:កប្តុំ ឃ្នុំត្នាក់ឆ្នាំ	Song 7.1	לַּיִח־תַּיַחַיוּ וּ
Isaiah 10.3	ומהתעשו	Isaiah 45.9	מָה תַּעַשָּׁה
Jer 4.30	בְּחֹרַתַּעַשִּׁי	Jer 5.31	וֹבְיוֹת הַנְיבַישׁוּ
Hos 9.5	קַּהַתְּעָיּנִ		
Total = 13 instances.			

List of the Uses of Daggesh in He, Aleph, and Resh

Daggesh in medial He Gen 34.28-- וְאֵר־חַמֹרֵי הָם

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Daggesh in Aleph
Gen 43.26--
                           Lev 23.17--
                                        תַ בַּאיוּו
Ezra 8.18--
Daggesh forte in Resh
1Sam 1.6--
                           1Sam 10.24-- הראית
             הַרִּעְ מַה
                           2Kings 6.32-- הראיתם
1Sam 17.25-- בראיתם
             לש רד
Prov 3.8--
                           Prov 14.10-- カラロ
Song 5.2--
             שראשי
                           Ezek 16.4-- בצא ברת
Ezek 16.4--
Daggesh conjunctive in Resh
2Chr 26.10-- בַּקנה־הַ ב
                           Ezra 9.6--
                                         T'NU
Job 39.9--
             Psalms 52.5-- リラ
Prov 11.21--
                           Prov 15.1--
Jer 39.12--
             7
                           Hab 3.13--
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The Environment of Spirantized BGDKPT Letters

This section describes the environment of the spirantized bgdkpt letters in Biblical Hebrew. The environments are as follows:⁸

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(1) vb.. or vab.. or vsb..

(2) /v#b.. or v-b..

(3) #c:b.. or cvmc:b.. or cvc:c:b.. or cvL:b..

(4) cvc:b..
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Environment 1

In this environment b is a medial or final bgdkpt letter preceded by any vowel including the hateph vowels (vb..). Quiescent Aleph does not alter the presence of the preceding vowel (vab..), nor does Quiescent Sin (vsb..). This in the most common environment for b. It occurs 108,799 times. The computer flagged 22 variations from this environment which are listed later. Thus this environment is 99.98% consistent. The computer flagged a number of additional instances which turned out to be consistent upon examination.

Environment 2

In this environment b is an initial bgdkpt letter of a word following a word ending in a vowel. The preceding word is joined by means of maqqeph (v-b..) or by a conjunctive accent (/v#b..). If we assume that environments one and two are essentially the same phonetically, then this demonstrates that maqqeph means "written space but no phonetic break." It also demonstrated that the conjunctive accent indicates the same thing. The only difference is that the conjunctive accent provides its word with a prominent stress. This environment occurs less frequently, having 9,138 instances in the Bible. The computer flagged two variations which are listed later. Thus this environment is 99.98% consistent. The computer flagged other instances which turned out to be consistent upon examination.

Environment 3

In this environment b is a medial or final bgdkpt letter preceded by the shewa traditionally understood as vocal shewa. This vocal shewa is identified as

- (1) the shewa with an initial letter (#c:b..);
- (2) the shewa of a syllable following a syllable whose vowel is marked with metheg or equivalent (cvmc:b..);9
 - (3) the shewa of a syllable following a syllable closed with shewa (cvc:c:b..);
 - (4) or the shewa with a letter marked with daggesh (cvL:b..).

This is the environment in which the traditional view understands that a preceding erstwhile vowel experienced reduction. This is next most common environment of b with 17,917 instances recorded. There were no apparent variations from this environment. If we assume that environment three is essentially the same as one and two, then we have evidence that this shewa has retained sufficient phonetic value to spirantize b.

Environment 4

In this environment b is a medial or final bgdkpt letter preceded by a syllable apparently closed by shewa (i.e., the traditional silent shewa). This environment is the apparent anomaly, and is the least common, occurring only 1,506 times. This represents only 1.09% of the total occurrences of b. This environment occurs in one of several circumstances:

- (1) the shewa is with a Yod that should have a daggesh according to standard inflectional patterns, 10 but has experienced the following historic changes: cvYvb.. > cvY:b.. > cvy:b..
- (2) the shewa closes a syllable as a result of the resolution of two vocal shewas according to the pattern: cvcvb.. > c:c:b.. > cvc:b...; in this historic development, b did not become B, as might be expected. The spirantized bgdkpt is explained traditionally as the memory of the erstwhile state in which a vowel (or at least a vocal shewa) preceded.
- (3) the Kaph of the 2mpl pronoun suffix spirantizes regularly after shewa that would seem to be silent.
 - (4) the remaining anomalies are the result of textual variants, where BHS lacks a

⁹ On rare occasions a few of the conjunctive accents stand where a methog is expected. This circumstance is recognized when such conjunctive accent stands early in the word before the regularly expected accent.

metheg with the preceding vowel, whereas other editions do have metheg.

The data for these environments are contained in the following table, and the errors are contained in the subsequent list. 11 The errors are due primarily to two causes:

- (1) orthographic anomalies involving the kethib and qere, where the kethib has extra matres lexiones or the like.
- (2) places where the Westminster text lists both the kethib and qere marked by *. Such instances produced discontinuities for the computer program, causing it to flag and print them. Usually the spiritantization is according to the normal environmental convention.

Conclusion

If one admits the existence of the vocal shewa, then the spirantized bgdkpt letters have only one environment, an immediately preceding vowel sound. The fourth environment need not be an exception, because it can be explained by historic phonetic phenomena whose roots are in a preceding erstwhile vowel.

¹¹ The list provides the reference and the Hebrew word in which each error occurs. The Hebrew words are given in the character set used for the LaserHEBREW(r) for WINDOWS(tm) produced by Linguist's Software, Inc. (1993 edition).

Summary of Data for Spirantized BGDKPT Letters Totals

```
Gen:
          /v#b =
                   446
                         cvb = 7099
                                       cvmc:b =
                                                   950 cvc:b =
                                                                   69
                                                                                3
                                                                                             8564
                                                                       errs =
                                                                                     tot =
Exod:
          /v#b =
                   391
                         cvb =
                                6027
                                       cvmc:b =
                                                   835
                                                         cvc:b =
                                                                   83
                                                                                9
                                                                       errs =
                                                                                     tot =
                                                                                             7336
Lev:
          /v#b =
                   387
                         cvb = 4444
                                       cvmc:b =
                                                   597
                                                         cvc:b =
                                                                   92
                                                                                0
                                                                                             5520
                                                                       errs =
                                                                                     tot =
          /v#b =
Num:
                   401
                         cvb =
                                5799
                                       cvmc:b =
                                                   781
                                                         cvc:b = 117
                                                                       errs =
                                                                                     tot =
                                                                                             7098
          /v#b =
Deut:
                   473
                         cvb =
                                5072
                                                   771
                                                         cvc:b =
                                       cvmc:b =
                                                                   49
                                                                                             6365
                                                                       errs =
                                                                                8
                                                                                     tot =
          /v#b =
Josh:
                   225
                         cvb =
                                3628
                                                   619
                                       cvmc:b =
                                                         cvc:b =
                                                                   70
                                                                       errs =
                                                                                5
                                                                                     tot =
                                                                                             4542
                                                         cvc:b =
Judg:
          /v#b =
                   274
                         cvb =
                                3250
                                                   526
                                                                                     tot =
                                       cvmc:b =
                                                                   39
                                                                       errs =
                                                                                7
                                                                                             4089
Ruth:
          /v#b =
                    50
                         cvb =
                                 443
                                       cvmc:b =
                                                    55
                                                         cvc:b =
                                                                                              552
                                                                    4
                                                                       errs =
                                                                                1
                                                                                     tot =
          /v#b =
                   404
1Sam:
                         cvb = 4441
                                                         cvc:b =
                                       cvmc:b =
                                                   656
                                                                   41
                                                                       errs =
                                                                               17
                                                                                     tot =
                                                                                             5542
          /v#b =
2Sam:
                   295
                         cvb = 4126
                                       cvmc:b =
                                                   542
                                                         cvc:b =
                                                                   39
                                                                       errs =
                                                                               10
                                                                                             5002
                                                                                     tot =
          /v#b =
                                                   755
1Kings:
                   303
                         cvb = 4744
                                       cvmc:b =
                                                         cvc:b =
                                                                   43
                                                                       errs =
                                                                               14
                                                                                     tot =
                                                                                             5845
2Kings:
          /v#b =
                   258
                                3960
                         cvb =
                                       cvmc:b =
                                                   707
                                                         cvc:b =
                                                                   43
                                                                       errs =
                                                                               18
                                                                                     tot =
                                                                                            49768
1Chr:
          /v#b =
                   335
                         cvb = 4352
                                       cvmc:b =
                                                   609
                                                         cvc:b =
                                                                   71
                                                                       errs =
                                                                               10
                                                                                     tot =
                                                                                             5367
2Chr:
          /v#b =
                   286
                         cvb = 5106
                                       cvmc:b =
                                                   839
                                                         cvc:b =
                                                                   82
                                                                                             6313
                                                                       errs =
                                                                                     tot =
Ezra:
          v#b =
                   186
                         cvb = 1303
                                       cvmc:b =
                                                   307
                                                         cvc:b =
                                                                   27
                                                                                             1823
                                                                       errs =
                                                                                     tot =
Neh:
          /v#b =
                   174
                         cvb = 1915
                                       cvmc:b =
                                                   335
                                                         cvc:b =
                                                                  34
                                                                                             2458
                                                                       errs =
                                                                                3
                                                                                     tot =
          /v#b =
Esther:
                    41
                         cvb = 1155
                                                   239
                                                         cvc:b =
                                       cvmc:b =
                                                                  30
                                                                       errs =
                                                                                             1465
                                                                                0
                                                                                     tot =
          /v#b =
                   370
                         cvb = 2732
Job:
                                       cvmc:b =
                                                   470
                                                         cvc:b =
                                                                  25
                                                                                             3597
                                                                       errs =
                                                                                8
                                                                                     tot =
Psalms:
          /v#b =
                   791
                         cvb =
                               6677
                                       cvmc:b = 1319
                                                         cvc:b = 110
                                                                                             8897
                                                                       errs =
                                                                               10
                                                                                     tot =
          /v#b =
                   297
Prov:
                         cvb = 2630
                                       cvmc:b =
                                                   486
                                                         cvc:b =
                                                                  32
                                                                       errs =
                                                                               15
                                                                                     tot =
                                                                                             3445
          /v#b =
Eccl:
                    67
                         cvb = 1023
                                       cvmc:b =
                                                   145
                                                         cvc:b =
                                                                       errs =
                                                                                     tot =
                                                                                             1241
          /v#b =
Song:
                    44
                         cvb =
                                 509
                                       cvmc:b =
                                                    81
                                                         cvc:b =
                                                                    7
                                                                       errs =
                                                                                     tot =
                                                                                              641
                                                                                0
Isaiah:
          /v#b =
                  591
                         cvb = 5596
                                       cvmc:b = 1023
                                                         cvc:b =
                                                                  70
                                                                       errs =
                                                                               14
                                                                                     tot =
                                                                                             7280
          /v#b =
                   704
                                7724
Jer:
                         cvb =
                                       cvmc:b =
                                                  1424
                                                         cvc:b =
                                                                  84
                                                                       errs =
                                                                               31
                                                                                     tot =
                                                                                             9936
          /v#b =
Lam:
                    60
                        cvb =
                                 542
                                       cvmc:b =
                                                    90
                                                         cvc:b =
                                                                    5
                                                                       errs =
                                                                                3
                                                                                              697
                                                                                     tot =
          /v#b =
Ezek:
                  594
                        cvb = 7539
                                       cvmc:b = 1195
                                                         cvc:b = 105
                                                                       errs =
                                                                                     tot =
                                                                                             9433
          /v#b =
                  260
Dan:
                        cvb =
                                2071
                                       cvmc:b =
                                                   634
                                                         cvc:b =
                                                                                             3044
                                                                       errs =
                                                                               27
                                                                                     tot =
          /v#b =
Hos:
                    80
                        cvb =
                                 819
                                       cvmc:b =
                                                   141
                                                         cvc:b =
                                                                    6
                                                                       errs =
                                                                                     tot =
                                                                                             1046
          /v#b =
Joel:
                    26
                        cvb =
                                 342
                                       cvmc:b =
                                                    55
                                                         cvc:b =
                                                                    8
                                                                       errs =
                                                                                0
                                                                                     tot =
                                                                                              431
          /v#b =
Amos:
                    56
                        cvb =
                                 732
                                       cvmc:b =
                                                   100
                                                         cvc:b =
                                                                   6
                                                                       errs =
                                                                                     tot =
                                                                                              894
                                                                                1
          /v#b =
Obad:
                    13
                        cvb =
                                  98
                                       cvmc:b =
                                                    16
                                                         cvc:b =
                                                                       errs =
                                                                                     tot =
                                                                                              128
                                                                    1
                                                                                0
          /v#b =
Jonah:
                    14
                        cvb =
                                 169
                                       cvmc:b =
                                                    31
                                                         cvc:b =
                                                                    0
                                                                       errs =
                                                                                0
                                                                                     tot =
                                                                                              214
Micah:
          /v#b =
                    49
                        cvb =
                                 499
                                       cvmc:b =
                                                    87
                                                         cvc:b =
                                                                    5
                                                                       errs =
                                                                                2
                                                                                     tot =
                                                                                              640
Nahum:
          /v#b =
                    24
                        cvb =
                                 200
                                       cvmc:b =
                                                    37
                                                         cvc:b =
                                                                                2
                                                                                              262
                                                                       errs =
                                                                                     tot =
Hab:
          /v#b =
                    28
                        cvb =
                                 196
                                                    41
                                       cvmc:b =
                                                         cvc:b =
                                                                       errs =
                                                                                0
                                                                                     tot =
                                                                                              266
Zeph:
          /v#b =
                    24
                        cvb =
                                 246
                                       cvmc:b =
                                                    38
                                                         cvc:b =
                                                                   3
                                                                       errs =
                                                                                1
                                                                                     tot =
                                                                                              311
Hag:
          /v#b =
                     8
                        cvb =
                                 199
                                                    59
                                                                                              269
                                       cvmc:b =
                                                         cvc:b =
                                                                   3
                                                                                0
                                                                       errs =
                                                                                     tot =
Zach:
          /v#b =
                    77
                               1060
                        cvb =
                                       cvmc:b =
                                                   241
                                                                  11
                                                                                             1389
                                                         cvc:b =
                                                                       errs =
                                                                                0
                                                                                    tot =
          /v#b =
                    32
Mal:
                        cvb =
                                 332
                                       cvmc:b =
                                                    81
                                                         cvc:b =
                                                                   5
                                                                                              450
                                                                       errs =
                                                                                0
                                                                                    tot =
Totals
                9,138
                             108,799
                                                17,917
                                                                             279
                                                               1,506
                                                                                          137,360
```

Note: The errors are not included in the totals. They include all the instances the computer flagged, regardless of whether they turned out to be actual variations or not.

List of Errors for Spirantized BGDKPT Letters

I. Instances of variation with an initial bgdkpt letter:

Deut 8.20 אבּדָרוֹן	Deut 33.26 בעולך
Judg 11.34 בת פים	ער גָנוֹלֶה1Sam 1.23
1Sam 23.15 ヿ゚゙ヿ゙	2Sam 19.33 בשיבתו
1Kings 3.6 7] Ţ	1Kings 8.38 תְּהֵיֵה
2Kings 4.7 בְנַיְכִי תְּחְיִי	ובאָרֶץ־פַּלְשׁתִּׁים[1Chr 10.9
1Chr 29.16 לֶל	2Chr 28.9 אָנַעַ
Psalms 22.26 הְּוֹלֶּ תְי	Psalms 143.11 תוֹ צִיא
פָל־בָּעַלProv 1.17	Prov 13.19 תערב
Eccl 2.1 בְּשֶׁבְי ְחָה	Isaiah 34.11 קרתהר
Isaiah 43.19 תְּדָעָוּה	Ezek 11.9
1Chr 28.21 בכָל־מָלְאֹלֶה	Ezek 24.17 기가되
Total = 22 instances	,

II. Instance of variation of a medial bgdkpt letter.

2Sam 11.1-- הַמַּלְאָּכִים

Amos 9.4-- איביהם

Total = 2 instance

Errors Marked as QERE or KETHIB for Spirantized BGDKPT Letters

The computer flagged numerous instances involving words marked as Qere or Kethib in the Westminster text. The marker (*) interupted the logic of the program, causing it to list apparent variations. These nearly always turn out to be consistent with the expected environment. I weeded out those that were correct according to the recorded word(s). Those listed below have not been checked.

Gen 25.23 ביגוֹיִל (ביי ביי ביי ביי ביי ביי ביי ביי ביי בי	Gen 30.11 7, ***
Exod 22.26 in not have a second sec	Exod 16.7 177 17***
אבא אינו16.11 Num 16.11	Exod 22.26 77705**
ווי און 10.11 און 10.11 Num 32.7 און 10.11	Num 16.11 איתלונו ^{**} Num 32.7 איתנוארן ^{**}
Josh 3.16 DTND***	Josh 16.3 17847**
Josh 16.3 אָבָאָרוֹיני אַרָּאָרָייִר	Judg 13.17 7"**
1Sam 10.7 אברה ^{***}	1Sam 19.18 קייי אייי איייי איייי
1Sam 19.19 בְּנוֹית ***	1Sam 25.3 : "¬¬¬>***

```
2Sam 8.3--
                                    2Sam 18.13-- בנפשו ***
2Sam 18.18-- אינ ***
                                    1Kings 16.34-- איניגונ <sup>**</sup>
1Kings 22.13-- ブ'フコブ**
                                    2Kings 7.12-- ココツ**
2Kings 23.10-- בני־הנם**
                                    1Chr 7.31--
Job 9.30--
                                    Job 9.30---
Job 37.12--
                                                 **פחדר
                                    Job 40.17--
                                                  ~;~**
Psalms 10.5-- 1277**
                                    Prov 27.24--
Prov 31.18---
                                    Isaiah 23.13-- בחיניו<sup>**</sup>
                                                **תשובו
Jer 3.5--
                                    Jer 3.19--
Jer 41.17--
                                    Jer 48.7--
Jer 50.11--
                                    Jer 50.11--
Jer 50.11--
                                    Jer 52.11--
Lam 6--
                                    Lam 19--
Lam 19--
                                    Ezek 14.4--
Ezek 23.14-- בשר"יים
                                   Ezek 23.36-- :תועבותיהן
Ezek 27.20-- בבגדי־חפש
                                   Ezek 27.24-- "
Ezek 29.7--
                                   Ezek 31.5--
Ezek 35.9-- תישבנה
                                   Ezek 36.14--
Ezek 48.18-- תבואתה
                                   Dan 2.10--
Dan 2.38--
                            Dan 2.39--
Dan 2.39--
                                   Dan 2.43--
Dan 3.28--
                                   Dan 5.30--
Hos 9.16--
                                   Nahum 2.6-- בהלכותם
```

Instances Where Words Marked With the Sign for QERE or KETHIB Caused the Program to Flag the Word With Daggesh

I weeded out those that are clearly OK from the reported word(s). The others have not been checked, but are very likely OK.

Gen 30.11	N <u>_</u> ***	Gen 30.11	777***
Gen 43.28	: ייִן וּיִין יִייִי **יַיַייִייִי ***	Exod 22.4	*** בָּכִיּירֹּי
Exod 39.33	***	Exod 39.33	**
Deut 33.2	***	Josh 4.18	****ב**יבלות
Josh 4.18	77722***	Josh 6.5	בּהָלוֹלְכֹם***
Josh 6.5		Josh 6.9	**תקעו
Josh 6.9	7777***	Josh 8.11	7,7,7***
Josh 8.11	j	Josh 8.16	, <u>;</u> ****
Josh 8.16	***	Josh 18.19)***

Josh 18.19	**היגאותיו	Josh 22.7	779 ** 2***
Josh 24.15	***	Judg 4.11	D'1521***
Judg 4.11	· · · · · · · · · · · · · · · · · · ·	**** Judg 16.25	:-**********************************
Judg 16.25	75**	Judg 19.25	ハ ラ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
Judg 19.25	הי*±**בּוְעַלוֹח	Judg 20.13	, s s s s s s s s s s s s s s s s s s s
Ruth 3.14		** Ruth 3.14	
1Sam 5.6	ב ^י אָׁמְחֹ יְּרִיים	**** 1Sam 5.6	man by damp on a bound ***
1Sam 5.12	~ ***	1Sam 5.12	****
1Sam 8.3	** ** ** *** *** *** *** *** *** *** *	*** 1Sam 8.3	j 20 mg 2 mg ***
1Sam 11.6	***בְישׁבְזְעוֹ	1Sam 11.6	12/200***=****
1Sam 11.9	*****C**	1Sam 11.9	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1Sam 18.7	7-5- <u>*</u> ** <u>-</u> **	**** 1Sam 18.7	15785***
1Sam 19.18	א**בְּרַרָּר	1Sam 19.18	
1Sam 19.19	איבורית***	1Sam 19.19	. 3.4. 3.4.4.4.
1Sam 19.22	,	1Sam 19.22	
1Sam 19.23	71,4**		
1Sam 21.12	フッランド* ** ̄**	*** 1Sam 21.12	
1Sam 21.12	: 77 7 - 7**	2**** 1Sam 21.12	,,,,, ***
1Sam 22.18	JN 77***	1Sam 22.18	795 T**
1Sam 22.22	15 17***	1Sam 22.22	777**
1Sam 29.5	<u> </u>	1Sam 29.5	****
2Sam 1.11	, , , , , , , , , , , , , , , , , , ,	** 2Sam 1.11	۱٦٠ <u>٠</u> ***
2Sam 1.16	***	2Sam 1.16	T
2Sam 2.23	7,5 1,5,1	2Sam 2.23	א**הַבוּחֵתוֹר
2Sam 3.12	** <u>الْيَالَة</u> ا	2Sam 3.12	ייי רְרַ ^{***}
2Sam 5.24	##	** 2Sam 5.24	T***
2Sam 8.3	***	2Sam 10.9	ラドコピュー***
2Sam 12.9	; <u></u>	2Sam 12.9	***
2Sam 12.31		* 2Sam 12.31	**** <u>حَرَ</u> نَاكُرُدُلُ
2Sam 15.28	، ﴿ اللَّهُ ال السِّرُ أَنْ اللَّهُ ا	*** 2Sam 15.28	איבינירות*** **בינירות
2Sam 16.8	***	2Sam 16.8	ٵ <u>ٙ</u> ؊ٙٳ؊ٙ
2Sam 16.10	***	2Sam 16.10	≒ ***
2Sam 16.10	in in the state of	2Sam 16.12	مديد المراجعة المراجعة المراجعة
2Sam 16.12	, , , , , , , , , , , , , , , , , , ,	2Sam 17.12	
2Sam 17.12	ンロダラ***	2Sam 19.19	7, 2, ****
2Sam 19.19	777277***	2Sam 21.9	**** سن الماليات المالية
2Sam 21.12	ロ1 /57**	2Sam 21.12	
2Sam 21.12		2Sam 22.33	***
2Sam 22.33	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	2Sam 23.9	terms by term is not by ***
2Sam 24.22	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	* 2Sam 24.22	יביר [*] **

1Kings 6.21	7177****	1Kings 6.21	71777 ^{***}
1Kings 8.26	hamp by Being broad scores ***	1Kings 8.26	****
1Kings 17.14		1Kings 18.42	on on some some some ***
1Kings 18.42		2Kings 4.7	4 = 4 = 4 = 4 × ×
2Kings 4.34	A Handard Strands	2Kings 5.9	77 70******
2Kings 5.9	10107***	2Kings 6.25	1
2Kings 7.15	D	2Kings 7.15	
2Kings 12.10	***	2Kings 19.23	**************************************
2Kings 19.23	seed seed seed ***	2Kings 19.37	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
2Kings 22.5	***	2Kings 22.5	
2Kings 23.33	www.xxx	1Chr 6.11	, a man ***
1Chr 6.11	**	1Chr 9.33	D'7 109***
1Chr 9.33	and a fund a full **	1Chr 14.10	
1Chr 14.10		1Chr 22.7	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
1Chr 22.7	n to man **	2Chr 4.11	**T**
2Chr 11.18	- was ***	2Chr 11.18	71,7-7-***
2Chr 24.25		2Chr 24.25	***
2Chr 31.12	**בוֹנְנֵיהוּ	2Chr 31.12-	ما م
2Chr 31.13	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	2Chr 31.13	11,115 _{**}
2Chr 34.6		2Chr 34.6	<u>تْنْ نَتْ</u> **
2Chr 34.6	**	2Chr 34.22	——————————————————————————————————————
2Chr 34,22	בּן־**חוֹקְתַת	2Chr 36.17	ロ,
2Chr 36.17	רייועס**	Ezra 4.7	44 44 44 44 44 44 44 44 44 44 44 44 44
Ezra 4.7	٦٦٦٦٦ ×	Ezra 4.9	6 1 4 ***
Ezra 4.9	Nama **	Ezra 5.12	14************************************
Ezra 5.12	* *******	Ezra 7,25	y = 4 = 4 × × × ×
Ezra 7.25	77 7**		****
Ezra 10.35	***	1 7 7	*
Neh 2.13	The state of the s	Neh 4.7	בּשְׂחִוּיִים***
Esther 3.4	D7 08**>****	Esther 3.4	*** لَشَّرُ الْأَلَالُ السَّمَ
Esther 4.7	***	Esther 8.7	***ביְרוּרִיים ביְרוּרִיים
Job 9.13-44	7757 757	Job 9.13	<u> </u>
Job 15.15	12) 12 2***	Job 15.31	13 11 13 1 13 14 15 14 14 14 14 14 14 14 14 14 14 14 14 14
Job 26.14	44 × × × × × × × × × × × × × × × × × ×	Job 26.14	al man man room ***
Job 26.14	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	Job 26.14	المرابعة المسامية المرابعة المسامية المرابعة الم
Job 30.22	:חַיַעוֹין:***	Job 30.22	אָלימׁלָר. גיריליתי**
Job 37.12	j_j_j***	Job 37.12	
Job 38.41	of any family **	Job 39.26	
Jøb 39.26	1	Psalms 10.10	1515**
Psalms 24.6	77 77 ***	Psalms 24.6	:D"N >***
	* * '	T.V. GILLIPU I	1 Year []

Psalms 71.20	,,, ,, ***	Psalms 71.20	,,,,,,,**
Psalms 79.10	D, jy** <u>-</u> ****	Psalms 79.10	***
Psalms 89.18	ت ٦٢ ^{**}	Psalms 89.18	בּיִרָּים ***
Psalms 102.24	, <u> </u>	Psalms 102.24	115**
Psalms 139.6	***	Psalms 139.6	אַלָּה**
Psalms 147.19	4 49 600 600 600 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Psalms 147.19	trees trees **
Prov 6.16	**************************************	Prov 6.16	**سانة أ **
Prov 19.19	#\[;\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		יו יבויטורן ****
Prov 20.20	772	Prov 20.30	*** بخن صا
Prov 20.30		Prov 21.29	4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -
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Isaiah 13.16	**بَرَضْدَحُـٰذِٰتُ	Isaiah 23.12	ב**בֿיע-א גבֿיע-**בֿע-אַנּוּן **
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