

	A	B	C	D	E	F	G	H	I
1	POST or Glyph Name (GX GlyphNames file)	Standard Encoding (SE) Code- ANSI	SIL Ezra Font	Ezra New Unicode Number	Postscript Name-AGL	Unicode or AGL Character Name (Adobe Glyph List)	Michigan- Claremont code	Michigan- Claremont name	Biblical Reference
2	entire Latin set (1252)								
3	quotedblright			201D		RIGHT DOUBLE QUOTATION MARK			
4	parenleft	41	(	0028		LEFT PARENTHESIS (opening)			
5	parenright	40	)	0029		RIGHT PARENTHESIS (closing)			
6	asterisk	42	*	002A		ASTERISK			Jes (Isa) 54:16:1
7	comma	44	,	002C		COMMA			
8	period	46	.	002E		FULL STOP			
9	slash	47	/	002F		SOLIDUS			
10	zero	48	0	0030		DIGIT ZERO			
11	one	49	1	0031		DIGIT ONE			
12	two	50	2	0032		DIGIT TWO			
13	three	51	3	0033		DIGIT THREE			
14	four	52	4	0034		DIGIT FOUR			
15	five	53	5	0035		DIGIT FIVE			
16	six	54	6	0036		DIGIT SIX			
17	seven	55	7	0037		DIGIT SEVEN			
18	eight	56	8	0038		DIGIT EIGHT			
19	nine	57	9	0039		DIGIT NINE			
20	semicolon	59	;	003B		SEMICOLON			
21	question	63	?	003F		QUESTION MARK			
22	bracketleft	93	[	005B		LEFT SQUARE BRACKET (opening)			
23	backslash	92	\	005C		REVERSE SOLIDUS			
24	bracketright	91	]	005D		RIGHT SQUARE BRACKET (closing)			
25	braceleft	125	{	007B		LEFT CURLY BRACKET (opening)			
26	braceright	123	}	007D		RIGHT CURLY BRACKET (closing)			
27	nonbreakingspace	176		00A0		NO-BREAK SPACE			
28	guillemotleft	187	«	00AB		LEFT-POINTING DOUBLE ANGLE QUOTATION MARK (usually opening)			
29	guillemotright	171	»	00BB		RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK (usually closing)			

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30	athnah	161	◌ֶ	0591		HEBREW ACCENT ETNAHTA	92	atnah	Gen 1:1:3
31	athnahalt		◌ֶ	0591		HEBREW ACCENT ETNAHTA			
32	segolta	130	◌ֿ	0592		HEBREW ACCENT SEGOL	01	segolta	Gen 1:7:3
33	class2salseleth	142	◌ֿ	0593		HEBREW ACCENT SHALSHELET	65	shalshélet	Gen 19:16:1
34	class2zakef	129	◌ֿ	0594		HEBREW ACCENT ZAQEF QATAN	80	zaqep parvum	Gen 1:2:4
35	class2zakefgadol	136	◌ֿ	0595		HEBREW ACCENT ZAQEF GADOL	85	zaqep magnum	Gen 1:14:7
36	tipha	155	◌ֿ	0596		HEBREW ACCENT TIPEHA (see Dehi)	73	tipha tarha	Ex 1:1:5
37	tiphaalt		◌ֿ	0596		HEBREW ACCENT TIPEHA			
38	class2rebia	128	◌ֿ	0597		HEBREW ACCENT REVIA	81	rebia	Gen 1:2:1
39	class2zarqa	141	◌ֿ	0598		HEBREW ACCENT ZARQA	82	sinnorit	Psa 2:7:5
40	zarqaalt		◌ֿ	0598		HEBREW ACCENT ZARQA			
41	zarqaalt2		◌ֿ	0598		HEBREW ACCENT ZARQA			
42	class1leftpashta	143	◌ֿ	0599		HEBREW ACCENT PASHTA (post, see Qadma)	03	pashta, azla legarmeh	Gen 1:14:4
43	class1leftpashtaalt		◌ֿ	0599		HEBREW ACCENT PASHTA			
44	Uyetiv			059A		HEBREW ACCENT YETIV (pre, see Mahapak)	10	yetib	Gen 1:11:6
45	tebir	153	◌ֿ	059B		HEBREW ACCENT TEVIR	91	tebir	Gen 1:4:2
46	tebiralt		◌ֿ	059B		HEBREW ACCENT TEVIR			
47	class2geresh	138	◌ֿ	059C		HEBREW ACCENT GERESH (see Geresh Muqdam)	61	geresh, teres	Gen 1:9:4
48	class2gereshalt		◌ֿ	059C		HEBREW ACCENT GERESH			
49	Ugereshmuqdam		◌ֿ	059D		HEBREW ACCENT GERESH MUQDAM (pre, see Geresh Muqdam)	11	mugrash	Psa 1:1:13
50	class2gershayim	139	◌ֿ	059E		HEBREW ACCENT GERSHAYIM	62	garshajim	Gen 1:11:10
51	class2gershayimalt		◌ֿ	059E		HEBREW ACCENT GERSHAYIM			
52	class2pazergad	133	◌ֿ	059F		HEBREW ACCENT QARNEY PARA	84	pazer mag, qarne para	Num 35:5:7
53	pazergadalt		◌ֿ	059F		HEBREW ACCENT QARNEY PARA			
54	class2telishagedola	132	◌ֿ	05A0		HEBREW ACCENT TELISHA GEDOLA (pre)	14/44	telisha magnum	Gen 1:12:3
55	class2pazer	135	◌ֿ	05A1		HEBREW ACCENT PAZER	83	pazer	Gen 1:21:8
56	class2pazeralt2		◌ֿ	05A1		HEBREW ACCENT PAZER			
57	class2pazeralt		◌ֿ	05A1		HEBREW ACCENT PAZER			
58				05A2		reserved			
59	munah	158	◌ֿ	05A3		HEBREW ACCENT MUNAH	74	munah	Gen 1:2:6
60	yetib	152	◌ֿ	05A4		HEBREW ACCENT MAHAPAKH (see Yetiv)	70	mahpak, mehuppak	Gen 1:5:2
61	mereka	156	◌ֿ	05A5		HEBREW ACCENT MERKHA	71	mereka	Gen 1:1:4
62	merekaalt		◌ֿ	05A5		HEBREW ACCENT MERKHA			
63	merkak	157	◌ֿ	05A6		HEBREW ACCENT MERKHA KEFULA	72	mereka kefulah	Gen 27:25:13
64	merkakalt		◌ֿ	05A6		HEBREW ACCENT MERKHA KEFULA			
65	darga	159	◌ֿ	05A7		HEBREW ACCENT DARGA	94	darga	Gen 1:4:1
66	dargaalt		◌ֿ	05A7		HEBREW ACCENT DARGA			
67	class2pashta	137	◌ֿ	05A8		HEBREW ACCENT QADMA (center, see Pashta)	33/63	pashta, azla legarmeh	Gen 1:29:4
68	class2pashtaalt		◌ֿ	05A8		HEBREW ACCENT QADMA			
69	telishaqetanna	131	◌ֿ	05A9		HEBREW ACCENT TELISHA QETANA	04/24	telisha parvum	Gen 1:21:9
70	galgal	154	◌ֿ	05AA		HEBREW ACCENT YERAH BEN YOMO	93	galgal, jerah	Num 35:5
71	galgalalt		◌ֿ	05AA		HEBREW ACCENT YERAH BEN YOMO			
72	class2oleweyored	134	◌ֿ	05AB		HEBREW ACCENT OLE	60	ole, mahpakatum	Psa 1:1:6
73	class2illuj	140	◌ֿ	05AC		HEBREW ACCENT ILUY	64	illuj	Psa 1:3:9

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		Standard Encoding (SE)	SIL	Ezra New					
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74	Udehi		𐤀	05AD		HEBREW ACCENT DEHI (pre, see Tipeha)	13	dehi,tipha	Job 3:7:3
75	(tiphaalt-use for Udehi alternate)		𐤁						
76	leftzarqa	144	𐤂	05AE		HEBREW ACCENT ZINOR (post)	02	zarqa, sinnor	Gen 1:7:2
77	leftzarqaalt		𐤃	05AE		HEBREW ACCENT ZINOR			
78	leftzarqaalt2		𐤄	05AE		HEBREW ACCENT ZINOR			
79	circellus	126	𐤅	05AF		HEBREW MARK MASORA CIRCLE			not in electronic texts
80	class2shewa	252	𐤆	05B0	afii57799	HEBREW POINT SHEVA	:	schwa	
81	class2hsegol	233	𐤇	05B1	afii57801	HEBREW POINT HATAF SEGOL	:E	hateph-segol	
82	class2hpatah	225	𐤈	05B2	afii57800	HEBREW POINT HATAF PATAH	:A	hateph-pathah	
83	class2hkamets	243	𐤉	05B3	afii57802	HEBREW POINT HATAF QAMATS	:F	hateph-qametz	
84	class2hireq	105	𐤊	05B4	afii57793	HEBREW POINT HIRIQ	I	hireq	
85	class2tsere	69	𐤋	05B5	afii57794	HEBREW POINT TSERE	"	tsere	
86	class2segol	101	𐤌	05B6	afii57795	HEBREW POINT SEGOL	E	segolta	
87	class2patah	97	𐤍	05B7	afii57798	HEBREW POINT PATAH	A	patah	
88	class2kamets	65	𐤎	05B8	afii57797	HEBREW POINT QAMATS	F	qametz	
89	class1holem	79	𐤏	05B9	afii57806	HEBREW POINT HOLAM	O	holam	
90				05BA		reserved			
91	class2qibb	117	𐤐	05BB	afii57796	HEBREW POINT QUBUTS	U	qibbutts	
92	dagesh	208	𐤑	05BC	afii57807	HEBREW POINT DAGESH OR MAPIQ	.	dagesh	
93	metheg	149	𐤒	05BD see notes	afii57839	HEBREW POINT METEG	35/75/95	meteg/silluq/meteg	Gen 1:13:1
94	makkef	45	𐤓	05BE	afii57645	HEBREW PUNCTUATION MAQAF	-	maqquph	Gen 1:2:6
95	rafe	38	𐤔	05BF	afii57841	HEBREW POINT RAFE	,	rafe	Ex 20:13:2
96	yiddvarika (rafe alt)		𐤕	05BF		(FB1E HEBREW POINT JUDEO-SPANISH VARIKA)*			
97	varikaalt		𐤖	05BF					
98	paseq	124	|	05C0	afii57842	HEBREW PUNCTUATION PASEQ	05	paseq	Gen 1:5:2
99	Ushindot			05C1		HEBREW POINT SHIN DOT			
100	Usindot			05C2		HEBREW POINT SIN DOT			
101	sofpasuq	58	:	05C3	afii57658	HEBREW PUNCTUATION SOF PASUQ	00	sop pasuq	
102	punctumextraordinarium	178	𐤗	05C4		HEBREW MARK UPPER DOT	52	punctum extraordinaria above	Gen33:4:7
103	aleph	39	א	05D0	afii57664	HEBREW LETTER ALEF	)	alef	
104	beth	98	ב	05D1	afii57665	HEBREW LETTER BET	B	bet	
105	gimel	103	ג	05D2	afii57666	HEBREW LETTER GIMEL	G	gimel	
106	daleth	100	ד	05D3	afii57667	HEBREW LETTER DALET	D	dalet	
107	he	104	ה	05D4	afii57668	HEBREW LETTER HE	H	he	
108	waw	119	ו	05D5	afii57669	HEBREW LETTER VAV	W	waw	
109	zayin	122	ז	05D6	afii57670	HEBREW LETTER ZAYIN	Z	zayin	
110	heth	120	ח	05D7	afii57671	HEBREW LETTER HET	X	het	
111	teth	88	ט	05D8	afii57672	HEBREW LETTER TET	"+"	tet	
112	yod	121	י	05D9	afii57673	HEBREW LETTER YOD	Y	yod	

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113	finalkaf		ך	05DA	afii57674	HEBREW LETTER FINAL KAF			
114	kaf	107	כ	05DB	afii57675	HEBREW LETTER KAF	K	kaf	
115	lamed	108	ל	05DC	afii57676	HEBREW LETTER LAMED	L	lamed	
116	(lamedalt)		ל	05DC		HEBREW LETTER LAMED	L	lamed	
117	finalmem		ם	05DD	afii57677	HEBREW LETTER FINAL MEM			
118	mem	109	מ	05DE	afii57678	HEBREW LETTER MEM	M	mem	
119	finalnun		ן	05DF	afii57679	HEBREW LETTER FINAL NUN			
120	nun	110	נ	05E0	afii57680	HEBREW LETTER NUN	N	nun	
121	samek	115	ס	05E1	afii57681	HEBREW LETTER SAMEKH	S	samek	
122	ayin	118	ע	05E2	afii57682	HEBREW LETTER AYIN	(	ayin	
123	finalpe		ף	05E3	afii57683	HEBREW LETTER FINAL PE			
124	pe	112	פ	05E4	afii57684	HEBREW LETTER PE	P	pe	
125	finaltsade		ץ	05E5	afii57685	HEBREW LETTER FINAL TSADI			
126	tsade	99	צ	05E6	afii57686	HEBREW LETTER TSADI	C	zade	
127	qoph	113	ק	05E7	afii57687	HEBREW LETTER QOF	Q	qof	
128	resh	114	ר	05E8	afii57688	HEBREW LETTER RESH	R	resh	
129	unpsin	83	ש	05E9	afii57689	HEBREW LETTER SHIN	#/&/\$	sin/shin	
130	taw	116	ת	05EA	afii57690	HEBREW LETTER TAV	T	taw	
131	yiddoublevav		וו	05F0	afii57716	HEBREW LIGATURE YIDDISH DOUBLE VAV			
132	yiddvavyodh		וי	05F1	afii57717	HEBREW LIGATURE YIDDISH VAV YOD			
133	yidddblyodh		יי	05F2	afii57718	HEBREW LIGATURE YIDDISH DOUBLE YOD			
134	abbrv1	35	׳	05F3		HEBREW PUNCTUATION GERESH			
135	abbrv2	34	״	05F4		HEBREW PUNCTUATION GERSHAYIM			
136	thinspace	255		2009		THIN SPACE			
137	zerowidthletter	226		200D		ZERO WIDTH JOINER			
138	en	150	—	2013		EN DASH			
139	em	151	—	2014		EM DASH			
140	quoteleft	146	‘	2018		LEFT SINGLE QUOTATION MARK			
141	quoteright	145	’	2019		RIGHT SINGLE QUOTATION MARK			
142	quotedblleft	148	“	201C		LEFT DOUBLE QUOTATION MARK			
143	doublecomma	147	„	201E		DOUBLE LOW-9 QUOTATION MARK (opening)			
144	placeholder	64	□	25CC		DOTTED CIRCLE			
145	yidddblyodh2		ײ	05F2 05B7	afii57705	(not FB1F HEBREW LIGATURE YIDDISH YOD YOD PATAH)*			
146	shin/SHIN0	72	שׁ	05E9 05C1	afii57694	(not FB2A HEBREW LETTER SHIN WITH SHIN DOT)*			
147	sin	87	שׂ	05E9 05C2	afii57695	(not FB2B HEBREW LETTER SHIN WITH SIN DOT)*			
148	shureq	251	שׁ	05D5 05BC	afii57723	(not FB35 HEBREW LETTER VAV WITH DAG	W.		
149	holemwaw	244	וׁ	05B9 05D5	afii57700	(not FB4B HEBREW LETTER VAV WITH HOL	OW		
150									
151									
152	highasterisk	43	⌘	002A or delete					

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153	punctum2	179	□	PUA- F301 use			53	punctum extraordinaria lower	Gen33:4:9 Psa 27:13:1
154	class2accent	180	□	use 05AB ole					
155	setuma	60	◊	05E1			_S_		
156	petuha	62	◊	05E4			_P_		
157	number	36	□	0307					
158	number2	37	□	0308					
159	invertednun	78	◊	PUA- F300,					Nu 10:34:7
160	kametso	111	□	05B8					
161	class2tsereyod	202	◊	05B5 05D9					
162	class2tserehe	203	◊	05B5 05D4					
163	class2kametshe	228	◊	05B8 05D4					
164	class2segolyod	234	◊	05B6 05D9					
165	class2segolhe	235	◊	05B6 05D4					
166	class2hireqyod	238	◊	05B4 05D9					
167	class1holemhhe	246	◊	05B9 05D4					
168	class4shewa (silent)	248	□	05B0					
169									
170		new		0024		DOLLAR SIGN			none
171		new		20AC		EURO SIGN			none
172		new		20AA		NEW SHEQEL SIGN			none
173		new		00A3		POUND SIGN			none
174						Peri = Proposed Unicode Numbers			
175						Gray = No exact equivalent in Unicode			
176						Teal = New in Unicode, not in SIL standard			
177						Blue = BHK alternate shapes for cants. Some used in Ezra SIL SR font.			
178									
179			Some marks in this column will not display in Excel 2000						
180			Ignore diacritic placement. Only the shape is correct.						

	J
1	Description/Difficulties/Comments
2	required for WIN OpenType fonts, useful for Mac
3	
4	The shape displayed will be the opening paren in Hebrew ']' when working in a R T L document. This is handled by Uniscribe. Choose 0028 when you want an opening paren.
5	All paired items mirror properly in Unicode. Quotes do not.
6	we can place all diacritics on a space or small space. we need to be able to place dagesh and various cants and vowels on space and asterisk. See Yannis H. article. 00A0-NBSP recommended.
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	Quotes do not mirror in Unicode. Choose the shape you want.
29	

	J
1	Description/Difficulties/Comments
30	
31	Alternate
32	Unicode shows this shape centering , as do some Hebrew texts. BHS has it to the left.
33	
34	
35	
36	
37	Alternate
38	
39	
40	Alternate
41	Alternate
42	
43	Alternate
44	add, inform users
45	
46	Alternate
47	
48	Alternate
49	
50	
51	Alternate
52	
53	Alternate
54	Only occurs as word-initial (pre)-14, and one occurrence of 44 in 2 Kings 17:24, but placement is still the same upper right of consonant.
55	
56	Alternate
57	Alternate
58	
59	
60	
61	
62	Alternate
63	
64	Alternate
65	
66	Alternate
67	
68	Alternate
69	
70	
71	Alternate
72	
73	

	J
1	Description/Difficulties/Comments
74	
75	
76	
77	Alternate
78	Alternate
79	See BHS examples: Combining: Jer 23:21:1 over aleph, Final: Jer 23:15:1,2,3 (also combining on 2), Double comb: Jer: 23:16:1, See also Jer 23:20:2-3. Combining Between: Jer 23:23:2, 7. footnote marker? init-Gen 13:1:9-TQ, & over maqaf. Use one for now.
80	Use one circellus only for now.
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	Was 2 more placements in PUA. Not accurate in electr text. 35=middle of hatufs, altho ordered C,V,##. 75=left, 95=right of vowel. Research indicates that 75 and 95 can co-occur with hatuf, therefore need 3 methegs
94	We were able to use just one by varying the order, no longer allowed in Unicode. Need community consensus and approval from UC.Added two PUA characters - F302 and F303. v2-use 05BD+vow for rt meteg, hataf+CGJ+05BD for left meteg on hataf
95	
96	This is considered a variant form of 05BF-rafe. This can be included as an alternate form, not a separate codepoint. Will not be available in OpenType fonts.
97	Another alternate form of 05BF-rafe. Same as above.
98	
99	Use pre-composed characters for sin & shin in keyboard. Keep as 2 characters (each) in Hebrew texts.
100	
101	
102	
103	
104	
105	
106	
107	
108	
109	
110	
111	
112	

	J
1	Description/Difficulties/Comments
113	It isn't practical to attempt to retain the automatic selection of final forms in the keyboards any longer. We need to inform users that they will have to type them as separate keystrokes. Search engines will need to search for either form.
114	
115	
116	alternate
117	
118	
119	
120	
121	
122	
123	
124	
125	
126	
127	
128	
129	Use pre-composed characters for sin & shin on keyboard, rather than separating dots
130	
131	
132	
133	
134	
135	
136	
137	
138	
139	
140	
141	
142	
143	
144	
145	Considered a ligature, will not include as separate codepoint. No special programming.
146	Delete combined character from standard encoding. Users can keyboard as pre-composed, but will be sequence in Hebrew texts.
147	Delete combined character from standard encoding. Users can keyboard as pre-composed, but will be sequence in Hebrew texts.
148	Treat as waw + dagesh.
149	Consonant vav followed by holem should be encoded 05D5 05B9 and rendered with a dot above the LEFT of the vav, as with any other letter. Full form holem, old Ezra 244 (never word initial), should be encoded 05B9 05D5 so
150	that the holem goes with the previous consonant, which is logically correct. Then, at rendering a holem following a consonant should be shifted on to the top RIGHT of a following vav, or similarly of a following aleph, if and only if
151	there is no vowel immediately following the vav or aleph (which indicates that they are silent letters).
152	This may be a footnote marker, and thus unnecessary to encode.

	J
1	Description/Difficulties/Comments
153	Need defined in Unicode, 3 occurrences in BHS, where it co-occurs w/ punctum. Was PUA - F301. Use 0323.
154	Used in grammars over Hebrew text, indicates a general cant and the tone, can use 05AB and font feature to select different shape.
155	No equivalent in Unicode. Use samek with mark-up.
156	No equivalent in Unicode. Use pe with mark-up.
157	Need defined in Unicode, not used in BHS, but extensive in margins. Use U307/U308 for now. These follow the direction of their base character. so could be used. Currently in discussion whether Semitic versions are needed.
158	
159	Need defined in Unicode, was PUA, now use nun+CGJ or nun+CGJ+0307(dot)
160	No equivalent in Unicode. Convert all to kamets.
161	Convert to sequence in Hebrew, single character in translit
162	Convert to sequence in Hebrew.
163	Convert to sequence in Hebrew.
164	Convert to sequence in Hebrew.
165	Convert to sequence in Hebrew.
166	Convert to sequence in Hebrew.
167	Convert to sequence in Hebrew.
168	No equivalent in Unicode. Convert to 05B0-shewa in Hebrew.
169	
170	Currency signs are included to make fonts more generally useable.
171	
172	
173	
174	
175	
176	
177	
178	
179	
180	