

PREAMBLE: A FEW NOTES ON TEXT PROCESSING REQUIREMENTS 🐼

In terms of applications' abilities to correctly render Native American languages, all the necessary components and technologies are currently in place—there are, however several dependencies and interdependencies, some of which are key components to applications dealing with the text, the means of text input (keyboard drivers), and some of which will require some level of education of the end-users who need to be made aware of some of these dependencies and methodology.

UNICODE

Being the core technology or standard required for both inputting, rendering, and storing text, any development of tools for rendering Native languages need to, as far as possible, work within the confines of Unicode text processing. Perhaps the first question many users will want to know is 'where is my character?'. There are some minor obstacles for the font part of this equation to deal with. The most apparent one is that many of the characters used in Native American orthographies do not seem to be present in the Unicode standard. These special cases have to be handled so that precomposed (unencoded) characters are actually entered as a sequence of characters which *are* present in Unicode. Eg:

λ̣

(barred lambda with comma accent, used in Wakashan and Salisian languages) This character as rendered above does not exist in Unicode, and thus needs to be 'built-up' with components which are encoded in Unicode:

λ̣ [U+019B] + ' [U+0313]

generally, this is done with an encoded 'base' character and then adding one or more combining diacritical marks or spacing modifier letters (the 0313 character being a 'combining comma above' accent).

Such a sequence requires that

1. the font contains all the 'base' characters, and all the possible combining diacritics (that are currently in Unicode)
2. the resultant pre-composed character which renders the desired glyph in an ideal way for the typeface design is in the font
3. that the aforementioned sequence is mapped to the pre-composed glyph via the OpenType 'composition/decomposition' feature [CCMP]
4. that any keyboard distributed which intends to support this character uses a mechanism compatible with the way the [CCMP] feature is written. This could take a couple of forms:
 - either the keying-in sequence is 'base' + 'accent' (assign the barred-lambda to one keystroke, the comma accent to another)
 - or, alternately, assign multiple codepoints to a single keystroke
5. that any application whose intention it is to render these characters support the [CCMP] feature (which is on by default). We will take it as a given that any such application fully support Unicode text processing as well.

Examples of stacking accents can be dealt with in the same manner as described above:

â

But in this case there would be either four elements in the [CCMP] lookup (a+ogonek+dieresis+grave), or three (aogonek+dieresis+grave), either of which can be mapped to a sequence of keystrokes or a single keystroke, should that be desirable to the end user. In either case, the end user needs to know the sequence to render the pre-composed character; in this case, it means typing first the 'base' component, and then the accents, from the bottom to the top, or alternately the user is presented with a glyph palette to select from.

This approach requires we know what pre-composed characters to add to the font. For complete arbitrary and dynamic positioning of any combination of accents over a base glyph would require a fairly comprehensive OpenType mark positioning feature [MARK] and/or an algorithm within the rendering environment (application) which can stack and center combining accents over or under a base glyph. Mark positioning, and mark-to-mark positioning [mkmk] should also be considered as part of the development, and ideally conditional kerning that works with mark positioning (for ccmp support, kerning is via class-based lookups with specific glyph-level exceptions as needed).

Ktunaxan/Kootenai/Kootenay; *Xaat Kíl/Haida (also considered an isolate)

ORTHOGRAPHICAL INFORMATION FOR CANADIAN LANGUAGES 🍷

The following lists show orthographical (orthographies) for the languages listed on the previous page. These are sorted by: Common Name, Alternate Name(s). Note that the Common Names may not be the preferred name and that in referencing these languages more than one preferred name may be in use. Common names for languages may or may not be appropriate for continued use, but such determinations are outside the scope of this document.

CASING

Orthographies are listed primarily with lowercase characters. Some orthographies have traditionally not had casing for all characters, and such usage may be nearly standardized, however, for the sake of typographic completeness and functionality, full casing is recommended for most characters. For example, the barred lambda: 'λ' used in Salish languages typically only appears in lowercase. This has perhaps more to do with lack of uppercase options in available fonts than it does anything else. The principle problems with an uppercase version: 'Λ' is that no uppercase for a barred lambda is currently encoded in Unicode as a single character (this example uses [ccmp] lookups to reference Lambda followed by a combining slash) and the other is that readers aren't familiar with the form. Sometimes this situation is reversed, and uppercase is the norm (eg. for SenĆoten; SENĆOFEN). In one example (Okalakatiget; OKalaKatiget), an uppercase form has become normalized in use rather than a more appropriate lowercase form, again mostly due to lack of support within fonts and within software. Languages which use Canadian Syllabics have no inherent casing, although some examples of title casing may be seen. For extended typographic features, all uppercase characters could be mapped to small capitals (or indeed other stylistic alternates) but this would be a font-level decision. For the basic orthographies, only lowercase is shown; see the recommended full character/glyph set for uppercase.

NON-ORTHOGRAPHICAL REQUIREMENTS

Most of the languages listed use to varying degrees alphabets including Arabic numerals, punctuation etc. This document presupposes that fonts to be extended for Native language support will have a base Windows 1252 character set, which will contain punctuation and numerals as required for all these languages. Therefore, orthographies shown below focus on the *alphabetic* or *syllabic* requirements to render each language. In some cases unique characters are used to indicate stress, glottal stops etc. Many orthographies use a right quote/apostrophe ['] or [''] to indicate a glottal. When this is the case, it is excluded as it will be considered part of the same set of alphabets, or punctuation, as above (within codepage 1252). When unique characters (other than the apostrophe) for stress or glottalization are used, they will be shown in the orthography. Sometimes long primes ['] are also used (especially in older works), and while this too will not be shown in individual listings below, it should be included as part of the character set. Raised dots (period centered) are sometimes used, as are colons.

GENERAL NOTES

Characters listed under orthographies may include more than one orthography for that language for the sake of inclusiveness. Many languages use inherent diphthongs (or digraphs); these are not listed, only their constituent parts as they are keyed-in as separate characters. This document focusses on what is required for *font* support, character encoding sequences and some font design considerations more than it does on the *linguistic* aspect of an orthography.

ISO language code entries refer to ISO 639-3. In terms of comprehensiveness, I can not pretend this document contains all orthographies for all languages yet, as for some languages there are as many orthographies as linguists who have studied them. I have tended to the more common and current options, as well as the information available to me during the period this document has been prepared. Also, some orthographies aren't listed simply because the characters required for them are already spec'd or are included in CP 1252 and so don't need specific attention in this document.

The typeface used throughout this document is Huronia. Euphemia is used for the full UCAS range chart and for syllabic characters currently absent in Huronia (these appear in red).

COMMON NAME	ALTERNATE NAME(S)	ISO	ORTHOGRAPHY
Abnaki-Penobscot	Abenaqui, Wôbanakiôdwawôgan	abe	a b c d e g h i l m n o ô p s t w y z
Algonquin	Anicinâbemowin, Anicinapemiš'in	alq	a à á b c ç d e è é g h i i j k m n o ò ó p s š t w y z ž 8
Atikamekw	Tête de Boule	atj	a â c ç e h i î k k̄ m n o ô p p̄ r s s̄ t t̄ w
Blackfoot	Niitsitapi, Siksika	bla	a h i k m n o p s t w x y

(Cree, cont.)

¹ Latin-based Cree orthographies also exist. These are generally used for linguistic materials, dictionaries and learning materials. 'ᑭ' and 'ᑭ' aren't generally used in Latin orthographies, but are included as they reference characters in syllabics. Long vowels are often denoted with a macron, but occasionally a circumflex has been used.

[illegible]

2. list presupposes English and French loan words

3. Francis-Smith orthography

4. characters with circumflex (indicating long vowels) are seldom used.

5. lists omits long syllables (see full UCAS chart)—generally not used for Ojibwa but sometimes in Oji-Cree. Not all ‘w+syllable’ forms are not included; these are variously entered as either: ‘+ Δ’ or as precomposed, encoded entities: ‘Δ’); again, see full UCAS chart.

6. raised dot is a 'period centered'—there is no modifier raised dot/period

7. shows an common alternate form of 'sho' and 'sha' (2), (5) characters. These are candidates for architectural stylistic alternates.

COMMON NAME	ALTERNATE NAME(S)	ISO	ORTHOGRAPHY
Babine-Witsuwit'en	Northern Carrier	bcr	a b c d e ě g h i i k l m n o p s t u w y z
Beaver	Dane-zaa Záágé?, Dunneza	bea	a á â ã ä b c d d e é ê ě g h i j k l m n o ó ô õ ö q s s t t u ú û w y z z ʔ (?) 8
Carrier	Dakelh, Dakeł, CB ^u	crx	a b c d d e f g h i k l m n o p s s t t u w y z 9
Carrier, Southern		crs	(as above)
Chilcotin	Tsilhqot'in	clc	a b c d e g h i i j k l m n o p q s s t u v w ŵ x y z ʔ
Chipewyan-Dené	Dene	chp	a á ä å b c d e é ě g h i í i j k l l m n o ó ö q r s t u ú ü w x y z
Dogrib	Tłı̨chų Yatı̨	dgr	a à ä b d e ě ě g h i i j k l l m n o ò ö r s t w x y z
Gwich'in	Kutchin	gwi	a à ä b d e ě ě g h i i j k l l m n o ò ö r s t u ù ü v w y z
Haida, Northern	Masset, X̱aat Kil	hdn	a b d e g g h i j k k l m n o p s t u w x x y (G X) (7) 10
Haida, Southern	Skidegate, Hlgaagilda X̱aayda Kil	hax	a b d e g g h i j k k l m n o p q s t u w x x y (7) 11
Hän	Tr'ondëk Hwëch'in	haa	a ä å ä å ä ä ä ä ä ä ä ä b c d e ě ě ě ě ě ě ě ě ě g h i i i i i i i i i i k l l m n o ö ö ö ö ö ö p r s t u ü ù ü ü ü ü w y z
Kaska	Nahani	kkz	a ä å ä å ä ä ä ä ä ä ä b c d e ě ě ě ě ě ě ě ě ě g h i i i i i i i i i i k l l m n o ö ö ö ö ö ö r s t u ü ù ü ü ü ü w y z
Sekani	tθek'ehne, Tsek'ene	sek	a ä å b c d e ě ě ě g h i i j k g l m n o ö ö p s t (θ) u ü ù ü w y
Sarsi	Tsuut'ina	srs	a á ä å ä ā b c d e ě ě ě ě ě ě g y h i i i i i j k l l m n o ò ö ö ö ö r s t u ù ü ü ü w x y
Slavey, North	K'áshogot'ine, ᑭᐱᑲᑲᑲ Shihgot'ine, Sahtúot'ine Yatı̨	scs	a á ä å b c d e ě ě ě ě ě g h i i i i j k l l m n o ó ö ö p r s t u ú ü ü w x y z ʔ ʔ
Slavey, South	Dene Zhatie	xsl	a á ä å b c d e ě ě ě g h i i i i j k l l m n o ó ö ö p r s t u ú ü ü w x y z ʔ ʔ 12

8. Shows a character alternate sometimes used. This is not a stylistic alternate, but a separately encoded kind of glottal stop. Currently, I don't know if there is a particular preference.

9. This shows the current predominate Roman orthography. The historical syllabic orthography is part of the UCAS range and is shown in subset in the UCAS chart. Currently, Euphemia does have support for Carrier syllabics.

10. In some cases, an uppercase 'G' and 'X' are used rather than 'g' and 'x'. In this example, 'g' is shown with the lowline bisecting the lower bowl of the 'g'—wherever this appears, it could also be done as ḡ (g with subscript macron). Numeral '7' was previously used as glottal. Generally, the line under may be either a combining lowline or combining macron below (as is the case for all such characters), this may vary from one document to another, and will often appear in text as underlined characters, rather than a correctly encoded sequence.

11. This combines the 'official' orthography and the Brighthurst orthography. The numeral '7' was previously used as the glottal, now supplanted by the apostrophe. (see also notes on 'glottal-7' later for Salishian languages).

12. Glottals here can appear as both upper- and lower-case and therefore should be u+0241, u+0242, respectively.

[illegible]

INITIAL	(+)	(+)	(+)	(+)	FINAL
	ai	i	o	a	
	▽	Δ	▷	◁	
p	∇	Λ	>	<	<
t	U	∩	⊃	⊂	⊂
k	q	ρ	ɖ	b	b
g	ɣ	ʀ	ɟ	ɭ	ɭ
m	ɫ	ɮ	ɮ	ɮ	ɮ
n	ɔ	σ	ɔ	ɑ	ɑ
l	ɹ	ɻ	ɹ	ɻ	ɻ
r	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥
s	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥
j (y)	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥
v	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥
q	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥
ng	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥ (ɹ̥)
nng	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥
ɫ	ɹ̥	ɹ̥	ɹ̥	ɹ̥	ɹ̥

ΔϑⁱΠϚᶜ Inuktitut, Syllabics cont.

13. In addition to the characters shown in the chart, long (pointed, or dotted) forms for all base syllables also exist. See complete UCAS chart later in document.

Regional Variants

The most notable regional variant, which should be included, is the alternate form of the 'ng' final, which rather than a ligated 'n' + 'g' [ŋ] is [ɲ] which is the preferred form for Nunavik (Québec Inuitut). Generally, the 'nng' [ɲɲ] is not used in Nunavik, rather ɲ is repeated (ɲɲŋ) or 'n' is appended (ɲɲŋ).

H-Variants

The following characters should also be included, but don't appear very often:

$\rho \dot{q} d\sigma \dot{\tau} b \dot{\iota} b$

These are encoded as Nunavik 'H' characters.

Also:

H

Which is encoded as a Nunavut ‘h’, sometimes used when transliterating non-Inuktitut words with the ‘h’-sound.

The following are used for Nattiliŋmiutut Inuktitut, but are not yet included in Unicode and are not included in the current (MS) shipping version of Euphemia, but are included in the current Tiro version as PUA characters:

ፈፈረታትኩና ሥራዬን

these are also used to append an 'h' sound or an 'hr', eg:

𐌺=shri, 𐌿=hi

COMMON NAME	ALTERNATE NAME(S)	ISO	ORTHOGRAPHY
Inuktitut, Western	Inuinnaqtun, Inuvialuktun	ikt	a e f g (h) i j k l l m n o p q r s t u v
Inuktitut, Labrador	Okalakatiget	ike	a â e e g i j k K (k) l m n o p r s t u v 14
Cayuga	Gayogho:nó'	cay	a á d e e é e f g h i í k n o o ó o s t w y
Mohawk	Kanien'kéha	moh	a á á e e é h i i í k n n o o ó r s t w y
Oneida	Onayotaʔa:ka	one	a á á d e e e g h i i j k l l n n o o ó o s t u u á á á w w y ʔ (?)
Onondaga	Onóda'géga'	ono	a á á á d e e e e g h i i j k n ñ o o ó o s t w y
Seneca	Onódowága	see	a á á á d e e é e e g h i i j k n ñ o o ó ó s t w y
Tuscarora	Skarù-re'	tus	a á á ç e e é h i i í k n r s t θ u u ú w y ʔ
Wyandot	Wendat/Huron	n/a †	a á ä c d e e ē f g h i k n o o oō q r s t θ 8 (8) χ u w y z 15
Nisga'a	Nisga'a	ncg	a b d e g g (g) h i j k k l l m m n n o p s t u w w x x y y
Gitksan	Gitksanimx	git	a b d e g g (g) h i j k k l m n o p s t u w x x y
Tsimshian	Sm'algyax	tsi	a á b d e g g (g) h i k k l l m n o p s t u ü w w x y

14. Labrador Inuktitut uses an uppercase 'K' as an uvular 'k' (as 'q' or 'ᑭ' elsewhere). There is an encoded lowercase character which could represent this in a more appropriate way, which is the character once used for Greenlandic uvular 'k' or 'kra', which takes the form 'k'. Nonetheless, the uppercase 'K' predominates at the moment due to lack of support and awareness of the 'kra'.

15. The Wyandot, or Huron language, is generally regarded as being extinct. There is however some study and revitalization work currently, and so it is being included here. The character list combines a couple of historic orthographies; current preferences would have to be established.

COMMON NAME	ALTERNATE NAME(S)	ISO	ORTHOGRAPHY
Bella Coola	Nuxálk	blc	a á c ċ h h i i k ^w k l l λ λ m n p q q s t t u ū w x X y 7 ^w ʔ
Comox	K'omoks (Including Homalco, Klahoose, Sliammon), ʔayʔajuθəm/Saʔutx ^w	coo	a á æ æ ċ ċ e é ə ə ε g ^y h i i i j k k l l l λ λ o ó ɔ ɔ p p q q s s t t θ u u ó w w ʔ x ʔ ^{w y θ} 16
Halkomelem	Hənqəmínəm (including Hul'q'umi'num', Halq'eméylem [Stó:lō])	hur	a á á ċ ċ e é ə ə ə h h ĥ h i i i k k k l l l l λ λ m m n n o ó o p p p q q q s s t t t u u u u w w w x x x X y y ʔ ^{w θ}
Lillooet	Lil'wat7úlmeç, Staʔimcets, Ucwalmicwts	lil	a á a á c c e é e ə ə ə ə g g h i i i i k k l l l λ λ l l m m n n o ó p p p q q r r s s t t u u u u w w x x y y ʔ ʔ ʔ ^w
Okanagan	Nsyilxcən, Syilx'tsn	oka	a á c ə ə h h i i k l l λ λ l m n p q r s t u u w x x y y ʔ ʔ ʔ ^w
Straights Salish	SENĆOTEN, Saanich, Sənčaθən	str	A A Á B C Ø Ć D E H I Í J K K K L L E M N O P Q S s T T T U W W X X Y Z 17
Sechelt	Sháshishálh, Shashishalhem	sec	a á c e é h i k k l m m n p s t u u w x x y y ʔ
Shuswap	Secwepemctsin	shs	a á c e é g g h i i k k l l m m n n o ó p p q q r r s s t t u u w w x y ʔ
Squamish	Skwxwú7mesh	squ	a á c e é h i k k l m m n p s t u u w x x y y ʔ
Thompson	Nlha7kápmx, Nleʔkepmxcin	thp	a á c ċ ċ e é ə ə ə g g g h i i i i k k k l l l l λ m n n o ó p p p q q r r s s t t θ u u w w x x x y y y ʔ ʔ ʔ ^w
Assiniboine	Nakoda	asb	a á b c ċ ċ d e é g g h i i i i j k k k m n η o ó p p p s s s t t t u u u u w x y y z ʔ
Stoney	Nakoda	sto	a á a á b c ċ d e é g h h i i i i j j k m n o ó p s t u u u u u w x y z θ θ ʔ ʔ ^h
Dakota		dak	a á b c ċ ċ d e é g g h h h i i i i j k k k m n η o ó p p p s s s t t t u u u u w x y y z ʔ ^h
Lakota		lkt	a á b c ċ ċ d e é g g h h h i i i i j k k k m n η o ó p p p s s s t t t u u u u w x y y z ʔ ^h 18
Heiltsuk	Bella Bella, Haitzaqvla	hei	a á á a b c c d e é g g h h i i i k k l l l l l λ λ λ m m m m n n n n p p s t t u u u v w w x x y y z
Haisla	Xaʔislak'ala, X̱ähisłakala	has	a á a b c c d e é ə ə λ λ g g g h h i i i k l l l l l l l m m m n n n o ó p p q q s t t y y u u w w x x x z ʔ ^{° w}

16. With Coast languages (Wakashan, Salishian etc.) it is often the case that a single language will comprise of several dialects, each with different orthographical conventions. For the most part, we are listing the grouping and including all orthographies.

17. The Elliot orthography shown here is specific to SenĆoten, which at the moment tends to only use uppercase, except for the lowercase 's'. SenĆoten could better be categorized as North Straights Salish, and is specific to the Saanich peninsula. I don't currently have specific orthographical information for the other Straights Salish language used in Canada (eg. Sooke, or T'sou-ke), but I don't believe it has a complicated system.

18. There are many Lakota orthographies. The Lakota in Canada reside in Wood Mountain and at the time of this document's writing, I do not know specifically which orthography is being used. In all likelihood it will be covered by one of the other Siouan orthographies listed here.

141B	CANADIAN SYLLABICS NASKAPI WAA
141C	CANADIAN SYLLABICS AI
141D	CANADIAN SYLLABICS Y-CREE W
141E	CANADIAN SYLLABICS GLOTTAL STOP
141F	CANADIAN SYLLABICS FINAL ACUTE
1420	CANADIAN SYLLABICS FINAL GRAVE
1421	CANADIAN SYLLABICS FINAL BOTTOM HALF RING
1422	CANADIAN SYLLABICS FINAL TOP HALF RING
1423	CANADIAN SYLLABICS FINAL RIGHT HALF RING
1424	CANADIAN SYLLABICS FINAL RING
1425	CANADIAN SYLLABICS FINAL DOUBLE ACUTE
1426	CANADIAN SYLLABICS FINAL DOUBLE SHORT VERTICAL STROKES
1427	CANADIAN SYLLABICS FINAL MIDDLE DOT
1428	CANADIAN SYLLABICS FINAL SHORT HORIZONTAL STROKE
1429	CANADIAN SYLLABICS FINAL PLUS
142A	CANADIAN SYLLABICS FINAL DOWN TACK
142B	CANADIAN SYLLABICS EN
142C	CANADIAN SYLLABICS IN
142D	CANADIAN SYLLABICS ON
142E	CANADIAN SYLLABICS AN
142F	CANADIAN SYLLABICS PE
1430	CANADIAN SYLLABICS PAAI
1431	CANADIAN SYLLABICS PI
1432	CANADIAN SYLLABICS PII
1433	CANADIAN SYLLABICS PO
1434	CANADIAN SYLLABICS POO
1435	CANADIAN SYLLABICS Y-CREE POO
1436	CANADIAN SYLLABICS CARRIER HEE
1437	CANADIAN SYLLABICS CARRIER HI
1438	CANADIAN SYLLABICS PA
1439	CANADIAN SYLLABICS PAA
143A	CANADIAN SYLLABICS PWE
143B	CANADIAN SYLLABICS WEST-CREE PWE
143C	CANADIAN SYLLABICS PWI
143D	CANADIAN SYLLABICS WEST-CREE PWI
143E	CANADIAN SYLLABICS PWII
143F	CANADIAN SYLLABICS WEST-CREE PWII
1440	CANADIAN SYLLABICS PWO
1441	CANADIAN SYLLABICS WEST-CREE PWO
1442	CANADIAN SYLLABICS PWOO
1443	CANADIAN SYLLABICS WEST-CREE PWOO
1444	CANADIAN SYLLABICS PWA
1445	CANADIAN SYLLABICS WEST-CREE PWA
1446	CANADIAN SYLLABICS PWAA
1447	CANADIAN SYLLABICS WEST-CREE PWAA
1448	CANADIAN SYLLABICS Y-CREE PWAA
1449	CANADIAN SYLLABICS P
144A	CANADIAN SYLLABICS WEST-CREE P
144B	CANADIAN SYLLABICS CARRIER H
144C	CANADIAN SYLLABICS TE
144D	CANADIAN SYLLABICS TAAI
144E	CANADIAN SYLLABICS TI
144F	CANADIAN SYLLABICS TII

ᑕ	1450	CANADIAN SYLLABICS TO
ᑖ	1451	CANADIAN SYLLABICS TOO
ᑗ	1452	CANADIAN SYLLABICS Y-CREE TOO
ᑘ	1453	CANADIAN SYLLABICS CARRIER DEE
ᑙ	1454	CANADIAN SYLLABICS CARRIER DI
ᑚ	1455	CANADIAN SYLLABICS TA
ᑛ	1456	CANADIAN SYLLABICS TAA
ᑜ	1457	CANADIAN SYLLABICS TWE
ᑝ	1458	CANADIAN SYLLABICS WEST-CREE TWE
ᑞ	1459	CANADIAN SYLLABICS TWI
ᑟ	145A	CANADIAN SYLLABICS WEST-CREE TWI
ᑠ	145B	CANADIAN SYLLABICS TWII
ᑡ	145C	CANADIAN SYLLABICS WEST-CREE TWII
ᑢ	145D	CANADIAN SYLLABICS TWO
ᑣ	145E	CANADIAN SYLLABICS WEST-CREE TWO
ᑤ	145F	CANADIAN SYLLABICS TWOO
ᑥ	1460	CANADIAN SYLLABICS WEST-CREE TWOO
ᑦ	1461	CANADIAN SYLLABICS TWA
ᑧ	1462	CANADIAN SYLLABICS WEST-CREE TWA
ᑨ	1463	CANADIAN SYLLABICS TWAA
ᑩ	1464	CANADIAN SYLLABICS WEST-CREE TWAA
ᑪ	1465	CANADIAN SYLLABICS NASKAPI TWAA
ᑬ	1466	CANADIAN SYLLABICS T
ᑭ	1467	CANADIAN SYLLABICS TTE
ᑮ	1468	CANADIAN SYLLABICS TTI
ᑯ	1469	CANADIAN SYLLABICS TTO
ᑰ	146A	CANADIAN SYLLABICS TTA
ᑱ	146B	CANADIAN SYLLABICS KE
ᑲ	146C	CANADIAN SYLLABICS KAAI
ᑳ	146D	CANADIAN SYLLABICS KI
ᑴ	146E	CANADIAN SYLLABICS KII
ᑵ	146F	CANADIAN SYLLABICS KO
ᑶ	1470	CANADIAN SYLLABICS KOO
ᑷ	1471	CANADIAN SYLLABICS Y-CREE KOO
ᑸ	1472	CANADIAN SYLLABICS KA
ᑹ	1473	CANADIAN SYLLABICS KAA
ᑺ	1474	CANADIAN SYLLABICS KWE
ᑻ	1475	CANADIAN SYLLABICS WEST-CREE KWE
ᑼ	1476	CANADIAN SYLLABICS KWI
ᑽ	1477	CANADIAN SYLLABICS WEST-CREE KWI
ᑾ	1478	CANADIAN SYLLABICS KWII
ᑿ	1479	CANADIAN SYLLABICS WEST-CREE KWII
᐀	147A	CANADIAN SYLLABICS KWO
ᐁ	147B	CANADIAN SYLLABICS WEST-CREE KWO
ᐂ	147C	CANADIAN SYLLABICS KWOO
ᐃ	147D	CANADIAN SYLLABICS WEST-CREE KWOO
ᐄ	147E	CANADIAN SYLLABICS KWA
ᐅ	147F	CANADIAN SYLLABICS WEST-CREE KWA
ᐆ	1480	CANADIAN SYLLABICS KWAA
ᐇ	1481	CANADIAN SYLLABICS WEST-CREE KWAA
ᐈ	1482	CANADIAN SYLLABICS NASKAPI KWAA
ᐉ	1483	CANADIAN SYLLABICS K
ᐊ	1484	CANADIAN SYLLABICS KW

ᑭ	1485	CANADIAN SYLLABICS SOUTH-SLAVEY KEH
ᑭ	1486	CANADIAN SYLLABICS SOUTH-SLAVEY KIH
ᑭ	1487	CANADIAN SYLLABICS SOUTH-SLAVEY KOH
ᑭ	1488	CANADIAN SYLLABICS SOUTH-SLAVEY KAH
ᑭ	1489	CANADIAN SYLLABICS CE
ᑭ	148A	CANADIAN SYLLABICS CAAI
ᑭ	148B	CANADIAN SYLLABICS CI
ᑭ	148C	CANADIAN SYLLABICS CII
ᑭ	148D	CANADIAN SYLLABICS CO
ᑭ	148E	CANADIAN SYLLABICS COO
ᑭ	148F	CANADIAN SYLLABICS Y-CREE COO
ᑭ	1490	CANADIAN SYLLABICS CA
ᑭ	1491	CANADIAN SYLLABICS CAA
ᑭ	1492	CANADIAN SYLLABICS CWE
ᑭ	1493	CANADIAN SYLLABICS WEST-CREE CWE
ᑭ	1494	CANADIAN SYLLABICS CWI
ᑭ	1495	CANADIAN SYLLABICS WEST-CREE CWI
ᑭ	1496	CANADIAN SYLLABICS CWII
ᑭ	1497	CANADIAN SYLLABICS WEST-CREE CWII
ᑭ	1498	CANADIAN SYLLABICS CWO
ᑭ	1499	CANADIAN SYLLABICS WEST-CREE CWO
ᑭ	149A	CANADIAN SYLLABICS CWOO
ᑭ	149B	CANADIAN SYLLABICS WEST-CREE CWOO
ᑭ	149C	CANADIAN SYLLABICS CWA
ᑭ	149D	CANADIAN SYLLABICS WEST-CREE CWA
ᑭ	149E	CANADIAN SYLLABICS CWAA
ᑭ	149F	CANADIAN SYLLABICS WEST-CREE CWAA
ᑭ	14A0	CANADIAN SYLLABICS NASKAPI CWAA
ᑭ	14A1	CANADIAN SYLLABICS C
ᑭ	14A2	CANADIAN SYLLABICS SAYISI TH
ᑭ	14A3	CANADIAN SYLLABICS ME
ᑭ	14A4	CANADIAN SYLLABICS MAAI
ᑭ	14A5	CANADIAN SYLLABICS MI
ᑭ	14A6	CANADIAN SYLLABICS MII
ᑭ	14A7	CANADIAN SYLLABICS MO
ᑭ	14A8	CANADIAN SYLLABICS MOO
ᑭ	14A9	CANADIAN SYLLABICS Y-CREE MOO
ᑭ	14AA	CANADIAN SYLLABICS MA
ᑭ	14AB	CANADIAN SYLLABICS MAA
ᑭ	14AC	CANADIAN SYLLABICS MWE
ᑭ	14AD	CANADIAN SYLLABICS WEST-CREE MWE
ᑭ	14AE	CANADIAN SYLLABICS MWI
ᑭ	14AF	CANADIAN SYLLABICS WEST-CREE MWI
ᑭ	14B0	CANADIAN SYLLABICS MWII
ᑭ	14B1	CANADIAN SYLLABICS WEST-CREE MWII
ᑭ	14B2	CANADIAN SYLLABICS MWO
ᑭ	14B3	CANADIAN SYLLABICS WEST-CREE MWO
ᑭ	14B4	CANADIAN SYLLABICS MWOO
ᑭ	14B5	CANADIAN SYLLABICS WEST-CREE MWOO
ᑭ	14B6	CANADIAN SYLLABICS MWA
ᑭ	14B7	CANADIAN SYLLABICS WEST-CREE MWA
ᑭ	14B8	CANADIAN SYLLABICS MWAA
ᑭ	14B9	CANADIAN SYLLABICS WEST-CREE MWAA

ᐱ	14BA	CANADIAN SYLLABICS NASKAPI MWA
ᐱ	14BB	CANADIAN SYLLABICS M
ᐱ	14BC	CANADIAN SYLLABICS WEST-CREE M
ᐱ	14BD	CANADIAN SYLLABICS MH
ᐱ	14BE	CANADIAN SYLLABICS ATHAPASCAN M
ᐱ	14BF	CANADIAN SYLLABICS SAYISI M
ᐱ	14C0	CANADIAN SYLLABICS NE
ᐱ	14C1	CANADIAN SYLLABICS NAAI
ᐱ	14C2	CANADIAN SYLLABICS NI
ᐱ	14C3	CANADIAN SYLLABICS NII
ᐱ	14C4	CANADIAN SYLLABICS NO
ᐱ	14C5	CANADIAN SYLLABICS NOO
ᐱ	14C6	CANADIAN SYLLABICS Y-CREE NOO
ᐱ	14C7	CANADIAN SYLLABICS NA
ᐱ	14C8	CANADIAN SYLLABICS NAA
ᐱ	14C9	CANADIAN SYLLABICS NWE
ᐱ	14CA	CANADIAN SYLLABICS WEST-CREE NWE
ᐱ	14CB	CANADIAN SYLLABICS NWA
ᐱ	14CC	CANADIAN SYLLABICS WEST-CREE NWA
ᐱ	14CD	CANADIAN SYLLABICS NWAA
ᐱ	14CE	CANADIAN SYLLABICS WEST-CREE NWAA
ᐱ	14CF	CANADIAN SYLLABICS NASKAPI NWAA
ᐱ	14D0	CANADIAN SYLLABICS N
ᐱ	14D1	CANADIAN SYLLABICS CARRIER NG
ᐱ	14D2	CANADIAN SYLLABICS NH
ᐱ	14D3	CANADIAN SYLLABICS LE
ᐱ	14D4	CANADIAN SYLLABICS LAI
ᐱ	14D5	CANADIAN SYLLABICS LI
ᐱ	14D6	CANADIAN SYLLABICS LII
ᐱ	14D7	CANADIAN SYLLABICS LO
ᐱ	14D8	CANADIAN SYLLABICS LOO
ᐱ	14D9	CANADIAN SYLLABICS Y-CREE LOO
ᐱ	14DA	CANADIAN SYLLABICS LA
ᐱ	14DB	CANADIAN SYLLABICS LAA
ᐱ	14DC	CANADIAN SYLLABICS LWE
ᐱ	14DD	CANADIAN SYLLABICS WEST-CREE LWE
ᐱ	14DE	CANADIAN SYLLABICS LWI
ᐱ	14DF	CANADIAN SYLLABICS WEST-CREE LWI
ᐱ	14E0	CANADIAN SYLLABICS LWII
ᐱ	14E1	CANADIAN SYLLABICS WEST-CREE LWII
ᐱ	14E2	CANADIAN SYLLABICS LWO
ᐱ	14E3	CANADIAN SYLLABICS WEST-CREE LWO
ᐱ	14E4	CANADIAN SYLLABICS LWO
ᐱ	14E5	CANADIAN SYLLABICS WEST-CREE LWO
ᐱ	14E6	CANADIAN SYLLABICS LWA
ᐱ	14E7	CANADIAN SYLLABICS WEST-CREE LWA
ᐱ	14E8	CANADIAN SYLLABICS LWAA
ᐱ	14E9	CANADIAN SYLLABICS WEST-CREE LWAA
ᐱ	14EA	CANADIAN SYLLABICS L
ᐱ	14EB	CANADIAN SYLLABICS WEST-CREE L
ᐱ	14EC	CANADIAN SYLLABICS MEDIAL L
ᐱ	14ED	CANADIAN SYLLABICS SE
ᐱ	14EE	CANADIAN SYLLABICS SAAI

ᑭ	14EF	CANADIAN SYLLABICS SI
ᑭ	14F0	CANADIAN SYLLABICS SII
ᑭ	14F1	CANADIAN SYLLABICS SO
ᑭ	14F2	CANADIAN SYLLABICS SOO
ᑭ	14F3	CANADIAN SYLLABICS Y-CREE SOO
ᑭ	14F4	CANADIAN SYLLABICS SA
ᑭ	14F5	CANADIAN SYLLABICS SAA
ᑭ	14F6	CANADIAN SYLLABICS SWE
ᑭ	14F7	CANADIAN SYLLABICS WEST-CREE SWE
ᑭ	14F8	CANADIAN SYLLABICS SWI
ᑭ	14F9	CANADIAN SYLLABICS WEST-CREE SWI
ᑭ	14FA	CANADIAN SYLLABICS SWII
ᑭ	14FB	CANADIAN SYLLABICS WEST-CREE SWII
ᑭ	14FC	CANADIAN SYLLABICS SWO
ᑭ	14FD	CANADIAN SYLLABICS WEST-CREE SWO
ᑭ	14FE	CANADIAN SYLLABICS SWOO
ᑭ	14FF	CANADIAN SYLLABICS WEST-CREE SWOO
ᑭ	1500	CANADIAN SYLLABICS SWA
ᑭ	1501	CANADIAN SYLLABICS WEST-CREE SWA
ᑭ	1502	CANADIAN SYLLABICS SWAA
ᑭ	1503	CANADIAN SYLLABICS WEST-CREE SWAA
ᑭ	1504	CANADIAN SYLLABICS NASKAPI SWAA
ᑭ	1505	CANADIAN SYLLABICS S
ᑭ	1506	CANADIAN SYLLABICS ATHAPASCAN S
ᑭ	1507	CANADIAN SYLLABICS SW
ᑭ	1508	CANADIAN SYLLABICS BLACKFOOT S
ᑭ	1509	CANADIAN SYLLABICS MOOSE-CREE SK
ᑭ	150A	CANADIAN SYLLABICS NASKAPI SKW
ᑭ	150B	CANADIAN SYLLABICS NASKAPI S-W
ᑭ	150C	CANADIAN SYLLABICS NASKAPI SPWA
ᑭ	150D	CANADIAN SYLLABICS NASKAPI STWA
ᑭ	150E	CANADIAN SYLLABICS NASKAPI SKWA
ᑭ	150F	CANADIAN SYLLABICS NASKAPI SCWA
ᑭ	1510	CANADIAN SYLLABICS SHE
ᑭ	1511	CANADIAN SYLLABICS SHI
ᑭ	1512	CANADIAN SYLLABICS SHII
ᑭ	1513	CANADIAN SYLLABICS SHO
ᑭ	1514	CANADIAN SYLLABICS SHOO
ᑭ	1515	CANADIAN SYLLABICS SHA
ᑭ	1516	CANADIAN SYLLABICS SHAA
ᑭ	1517	CANADIAN SYLLABICS SHWE
ᑭ	1518	CANADIAN SYLLABICS WEST-CREE SHWE
ᑭ	1519	CANADIAN SYLLABICS SHWI
ᑭ	151A	CANADIAN SYLLABICS WEST-CREE SHWI
ᑭ	151B	CANADIAN SYLLABICS SHWII
ᑭ	151C	CANADIAN SYLLABICS WEST-CREE SHWII
ᑭ	151D	CANADIAN SYLLABICS SHWO
ᑭ	151E	CANADIAN SYLLABICS WEST-CREE SHWO
ᑭ	151F	CANADIAN SYLLABICS SHWOO
ᑭ	1520	CANADIAN SYLLABICS WEST-CREE SHWOO
ᑭ	1521	CANADIAN SYLLABICS SHWA
ᑭ	1522	CANADIAN SYLLABICS WEST-CREE SHWA
ᑭ	1523	CANADIAN SYLLABICS SHWAA

ᑭ	1524	CANADIAN SYLLABICS WEST-CREE SHWAA
ᑭ	1525	CANADIAN SYLLABICS SH
ᑭ	1526	CANADIAN SYLLABICS YE
ᑭ	1527	CANADIAN SYLLABICS YAAI
ᑭ	1528	CANADIAN SYLLABICS YI
ᑭ	1529	CANADIAN SYLLABICS YII
ᑭ	152A	CANADIAN SYLLABICS YO
ᑭ	152B	CANADIAN SYLLABICS YOO
ᑭ	152C	CANADIAN SYLLABICS Y-CREE YOO
ᑭ	152D	CANADIAN SYLLABICS YA
ᑭ	152E	CANADIAN SYLLABICS YAA
ᑭ	152F	CANADIAN SYLLABICS YWE
ᑭ	1530	CANADIAN SYLLABICS WEST-CREE YWE
ᑭ	1531	CANADIAN SYLLABICS YWI
ᑭ	1532	CANADIAN SYLLABICS WEST-CREE YWI
ᑭ	1533	CANADIAN SYLLABICS YWII
ᑭ	1534	CANADIAN SYLLABICS WEST-CREE YWII
ᑭ	1535	CANADIAN SYLLABICS YWO
ᑭ	1536	CANADIAN SYLLABICS WEST-CREE YWO
ᑭ	1537	CANADIAN SYLLABICS YWOO
ᑭ	1538	CANADIAN SYLLABICS WEST-CREE YWOO
ᑭ	1539	CANADIAN SYLLABICS YWA
ᑭ	153A	CANADIAN SYLLABICS WEST-CREE YWA
ᑭ	153B	CANADIAN SYLLABICS YWAA
ᑭ	153C	CANADIAN SYLLABICS WEST-CREE YWAA
ᑭ	153D	CANADIAN SYLLABICS NASKAPI YWAA
ᑭ	153E	CANADIAN SYLLABICS Y
ᑭ	153F	CANADIAN SYLLABICS BIBLE-CREE Y
+	1540	CANADIAN SYLLABICS WEST-CREE Y
x	1541	CANADIAN SYLLABICS SAYISI YI
ᑭ	1542	CANADIAN SYLLABICS RE
ᑭ	1543	CANADIAN SYLLABICS R-CREE RE
ᑭ	1544	CANADIAN SYLLABICS WEST-CREE LE
ᑭ	1545	CANADIAN SYLLABICS RAAI
ᑭ	1546	CANADIAN SYLLABICS RI
ᑭ	1547	CANADIAN SYLLABICS RII
ᑭ	1548	CANADIAN SYLLABICS RO
ᑭ	1549	CANADIAN SYLLABICS ROO
ᑭ	154A	CANADIAN SYLLABICS WEST-CREE LO
ᑭ	154B	CANADIAN SYLLABICS RA
ᑭ	154C	CANADIAN SYLLABICS RAA
ᑭ	154D	CANADIAN SYLLABICS WEST-CREE LA
ᑭ	154E	CANADIAN SYLLABICS RWAA
ᑭ	154F	CANADIAN SYLLABICS WEST-CREE RWAA
ᑭ	1550	CANADIAN SYLLABICS R
ᑭ	1551	CANADIAN SYLLABICS WEST-CREE R
ᑭ	1552	CANADIAN SYLLABICS MEDIAL R
ᑭ	1553	CANADIAN SYLLABICS FE
ᑭ	1554	CANADIAN SYLLABICS FAAI
ᑭ	1555	CANADIAN SYLLABICS FI
ᑭ	1556	CANADIAN SYLLABICS FII
ᑭ	1557	CANADIAN SYLLABICS FO
ᑭ	1558	CANADIAN SYLLABICS FOO

1559	CANADIAN SYLLABICS FA
155A	CANADIAN SYLLABICS FAA
155B	CANADIAN SYLLABICS FWAA
155C	CANADIAN SYLLABICS WEST-CREE FWAA
155D	CANADIAN SYLLABICS F
155E	CANADIAN SYLLABICS THE
155F	CANADIAN SYLLABICS N-CREE THE
1560	CANADIAN SYLLABICS THI
1561	CANADIAN SYLLABICS N-CREE THI
1562	CANADIAN SYLLABICS THII
1563	CANADIAN SYLLABICS N-CREE THII
1564	CANADIAN SYLLABICS THO
1565	CANADIAN SYLLABICS THOO
1566	CANADIAN SYLLABICS THA
1567	CANADIAN SYLLABICS THAA
1568	CANADIAN SYLLABICS THWAA
1569	CANADIAN SYLLABICS WEST-CREE THWAA
156A	CANADIAN SYLLABICS TH
156B	CANADIAN SYLLABICS TTHE
156C	CANADIAN SYLLABICS TTHI
156D	CANADIAN SYLLABICS TTHO
156E	CANADIAN SYLLABICS TTHA
156F	CANADIAN SYLLABICS TTH
1570	CANADIAN SYLLABICS TYE
1571	CANADIAN SYLLABICS TYI
1572	CANADIAN SYLLABICS TYO
1573	CANADIAN SYLLABICS TYA
1574	CANADIAN SYLLABICS NUNAVIK HE
1575	CANADIAN SYLLABICS NUNAVIK HI
1576	CANADIAN SYLLABICS NUNAVIK HII
1577	CANADIAN SYLLABICS NUNAVIK HO
1578	CANADIAN SYLLABICS NUNAVIK HOO
1579	CANADIAN SYLLABICS NUNAVIK HA
157A	CANADIAN SYLLABICS NUNAVIK HAA
157B	CANADIAN SYLLABICS NUNAVIK H
157C	CANADIAN SYLLABICS NUNAVUT H
157D	CANADIAN SYLLABICS HK
157E	CANADIAN SYLLABICS QAAI
157F	CANADIAN SYLLABICS QI
1580	CANADIAN SYLLABICS QII
1581	CANADIAN SYLLABICS QO
1582	CANADIAN SYLLABICS QOO
1583	CANADIAN SYLLABICS QA
1584	CANADIAN SYLLABICS QAA
1585	CANADIAN SYLLABICS Q
1586	CANADIAN SYLLABICS TLHE
1587	CANADIAN SYLLABICS TLHI
1588	CANADIAN SYLLABICS TLHO
1589	CANADIAN SYLLABICS TLHA
158A	CANADIAN SYLLABICS WEST-CREE RE
158B	CANADIAN SYLLABICS WEST-CREE RI
158C	CANADIAN SYLLABICS WEST-CREE RO
158D	CANADIAN SYLLABICS WEST-CREE RA

ᑭᑦ	158E	CANADIAN SYLLABICS NGAAI
ᑭᑦ	158F	CANADIAN SYLLABICS NGI
ᑭᑦ	1590	CANADIAN SYLLABICS NGII
ᑭᑦ	1591	CANADIAN SYLLABICS NGO
ᑭᑦ	1592	CANADIAN SYLLABICS NGOO
ᑭᑦ	1593	CANADIAN SYLLABICS NGA
ᑭᑦ	1594	CANADIAN SYLLABICS NGAA
ᑭᑦ	1595	CANADIAN SYLLABICS NG
ᑭᑦ	1596	CANADIAN SYLLABICS NNG
ᑭᑦ	1597	CANADIAN SYLLABICS SAYISI SHE
ᑭᑦ	1598	CANADIAN SYLLABICS SAYISI SHI
ᑭᑦ	1599	CANADIAN SYLLABICS SAYISI SHO
ᑭᑦ	159A	CANADIAN SYLLABICS SAYISI SHA
ᑭᑦ	159B	CANADIAN SYLLABICS WOODS-CREE THE
ᑭᑦ	159C	CANADIAN SYLLABICS WOODS-CREE THI
ᑭᑦ	159D	CANADIAN SYLLABICS WOODS-CREE THO
ᑭᑦ	159E	CANADIAN SYLLABICS WOODS-CREE THA
ᑭᑦ	159F	CANADIAN SYLLABICS WOODS-CREE TH
ᑭᑦ	15A0	CANADIAN SYLLABICS LHI
ᑭᑦ	15A1	CANADIAN SYLLABICS LHII
ᑭᑦ	15A2	CANADIAN SYLLABICS LHO
ᑭᑦ	15A3	CANADIAN SYLLABICS LHOO
ᑭᑦ	15A4	CANADIAN SYLLABICS LHA
ᑭᑦ	15A5	CANADIAN SYLLABICS LHAA
ᑭᑦ	15A6	CANADIAN SYLLABICS LH
ᑭᑦ	15A7	CANADIAN SYLLABICS TH-CREE THE
ᑭᑦ	15A8	CANADIAN SYLLABICS TH-CREE THI
ᑭᑦ	15A9	CANADIAN SYLLABICS TH-CREE THII
ᑭᑦ	15AA	CANADIAN SYLLABICS TH-CREE THO
ᑭᑦ	15AB	CANADIAN SYLLABICS TH-CREE THOO
ᑭᑦ	15AC	CANADIAN SYLLABICS TH-CREE THA
ᑭᑦ	15AD	CANADIAN SYLLABICS TH-CREE THAA
ᑭᑦ	15AE	CANADIAN SYLLABICS TH-CREE TH
ᑭᑦ	15AF	CANADIAN SYLLABICS AIVILIK B
ᑭᑦ	15B0	CANADIAN SYLLABICS BLACKFOOT E
ᑭᑦ	15B1	CANADIAN SYLLABICS BLACKFOOT I
ᑭᑦ	15B2	CANADIAN SYLLABICS BLACKFOOT O
ᑭᑦ	15B3	CANADIAN SYLLABICS BLACKFOOT A
ᑭᑦ	15B4	CANADIAN SYLLABICS BLACKFOOT WE
ᑭᑦ	15B5	CANADIAN SYLLABICS BLACKFOOT WI
ᑭᑦ	15B6	CANADIAN SYLLABICS BLACKFOOT WO
ᑭᑦ	15B7	CANADIAN SYLLABICS BLACKFOOT WA
ᑭᑦ	15B8	CANADIAN SYLLABICS BLACKFOOT NE
ᑭᑦ	15B9	CANADIAN SYLLABICS BLACKFOOT NI
ᑭᑦ	15BA	CANADIAN SYLLABICS BLACKFOOT NO
ᑭᑦ	15BB	CANADIAN SYLLABICS BLACKFOOT NA
ᑭᑦ	15BC	CANADIAN SYLLABICS BLACKFOOT KE
ᑭᑦ	15BD	CANADIAN SYLLABICS BLACKFOOT KI
ᑭᑦ	15BE	CANADIAN SYLLABICS BLACKFOOT KO
ᑭᑦ	15BF	CANADIAN SYLLABICS BLACKFOOT KA
ᑭᑦ	15C0	CANADIAN SYLLABICS SAYISI HE
ᑭᑦ	15C1	CANADIAN SYLLABICS SAYISI HI
ᑭᑦ	15C2	CANADIAN SYLLABICS SAYISI HO

ᑭ	15C3	CANADIAN SYLLABICS SAYISI HA
ᑭ	15C4	CANADIAN SYLLABICS CARRIER GHU
ᑭ	15C5	CANADIAN SYLLABICS CARRIER GHO
ᑭ	15C6	CANADIAN SYLLABICS CARRIER GHE
ᑭ	15C7	CANADIAN SYLLABICS CARRIER GHEE
ᑭ	15C8	CANADIAN SYLLABICS CARRIER GHI
ᑭ	15C9	CANADIAN SYLLABICS CARRIER GH A
ᑭ	15CA	CANADIAN SYLLABICS CARRIER RU
ᑭ	15CB	CANADIAN SYLLABICS CARRIER RO
ᑭ	15CC	CANADIAN SYLLABICS CARRIER RE
ᑭ	15CD	CANADIAN SYLLABICS CARRIER REE
ᑭ	15CE	CANADIAN SYLLABICS CARRIER RI
ᑭ	15CF	CANADIAN SYLLABICS CARRIER RA
ᑭ	15D0	CANADIAN SYLLABICS CARRIER WU
ᑭ	15D1	CANADIAN SYLLABICS CARRIER WO
ᑭ	15D2	CANADIAN SYLLABICS CARRIER WE
ᑭ	15D3	CANADIAN SYLLABICS CARRIER WEE
ᑭ	15D4	CANADIAN SYLLABICS CARRIER WI
ᑭ	15D5	CANADIAN SYLLABICS CARRIER WA
ᑭ	15D6	CANADIAN SYLLABICS CARRIER HWU
ᑭ	15D7	CANADIAN SYLLABICS CARRIER HWO
ᑭ	15D8	CANADIAN SYLLABICS CARRIER HWE
ᑭ	15D9	CANADIAN SYLLABICS CARRIER HWEE
ᑭ	15DA	CANADIAN SYLLABICS CARRIER HWI
ᑭ	15DB	CANADIAN SYLLABICS CARRIER HWA
ᑭ	15DC	CANADIAN SYLLABICS CARRIER THU
ᑭ	15DD	CANADIAN SYLLABICS CARRIER THO
ᑭ	15DE	CANADIAN SYLLABICS CARRIER THE
ᑭ	15DF	CANADIAN SYLLABICS CARRIER THEE
ᑭ	15E0	CANADIAN SYLLABICS CARRIER THI
ᑭ	15E1	CANADIAN SYLLABICS CARRIER THA
ᑭ	15E2	CANADIAN SYLLABICS CARRIER TTU
ᑭ	15E3	CANADIAN SYLLABICS CARRIER TTO
ᑭ	15E4	CANADIAN SYLLABICS CARRIER TTE
ᑭ	15E5	CANADIAN SYLLABICS CARRIER TTEE
ᑭ	15E6	CANADIAN SYLLABICS CARRIER TTI
ᑭ	15E7	CANADIAN SYLLABICS CARRIER TTA
ᑭ	15E8	CANADIAN SYLLABICS CARRIER PU
ᑭ	15E9	CANADIAN SYLLABICS CARRIER PO
ᑭ	15EA	CANADIAN SYLLABICS CARRIER PE
ᑭ	15EB	CANADIAN SYLLABICS CARRIER PEE
ᑭ	15EC	CANADIAN SYLLABICS CARRIER PI
ᑭ	15ED	CANADIAN SYLLABICS CARRIER PA
ᑭ	15EE	CANADIAN SYLLABICS CARRIER P
ᑭ	15EF	CANADIAN SYLLABICS CARRIER GU
ᑭ	15F0	CANADIAN SYLLABICS CARRIER GO
ᑭ	15F1	CANADIAN SYLLABICS CARRIER GE
ᑭ	15F2	CANADIAN SYLLABICS CARRIER GEE
ᑭ	15F3	CANADIAN SYLLABICS CARRIER GI
ᑭ	15F4	CANADIAN SYLLABICS CARRIER GA
ᑭ	15F5	CANADIAN SYLLABICS CARRIER KHU
ᑭ	15F6	CANADIAN SYLLABICS CARRIER KHO
ᑭ	15F7	CANADIAN SYLLABICS CARRIER KHE

ᑲ	15F8	CANADIAN SYLLABICS CARRIER KHEE
ᑲ	15F9	CANADIAN SYLLABICS CARRIER KHI
ᑲ	15FA	CANADIAN SYLLABICS CARRIER KHA
ᑲ	15FB	CANADIAN SYLLABICS CARRIER KKU
ᑲ	15FC	CANADIAN SYLLABICS CARRIER KKO
ᑲ	15FD	CANADIAN SYLLABICS CARRIER KKE
ᑲ	15FE	CANADIAN SYLLABICS CARRIER KKEE
ᑲ	15FF	CANADIAN SYLLABICS CARRIER KKI
ᑲ	1600	CANADIAN SYLLABICS CARRIER KKA
ᑲ	1601	CANADIAN SYLLABICS CARRIER KK
ᑲ	1602	CANADIAN SYLLABICS CARRIER NU
ᑲ	1603	CANADIAN SYLLABICS CARRIER NO
ᑲ	1604	CANADIAN SYLLABICS CARRIER NE
ᑲ	1605	CANADIAN SYLLABICS CARRIER NEE
ᑲ	1606	CANADIAN SYLLABICS CARRIER NI
ᑲ	1607	CANADIAN SYLLABICS CARRIER NA
ᑲ	1608	CANADIAN SYLLABICS CARRIER MU
ᑲ	1609	CANADIAN SYLLABICS CARRIER MO
ᑲ	160A	CANADIAN SYLLABICS CARRIER ME
ᑲ	160B	CANADIAN SYLLABICS CARRIER MEE
ᑲ	160C	CANADIAN SYLLABICS CARRIER MI
ᑲ	160D	CANADIAN SYLLABICS CARRIER MA
ᑲ	160E	CANADIAN SYLLABICS CARRIER YU
ᑲ	160F	CANADIAN SYLLABICS CARRIER YO
ᑲ	1610	CANADIAN SYLLABICS CARRIER YE
ᑲ	1611	CANADIAN SYLLABICS CARRIER YEE
ᑲ	1612	CANADIAN SYLLABICS CARRIER YI
ᑲ	1613	CANADIAN SYLLABICS CARRIER YA
ᑲ	1614	CANADIAN SYLLABICS CARRIER JU
ᑲ	1615	CANADIAN SYLLABICS SAYISI JU
ᑲ	1616	CANADIAN SYLLABICS CARRIER JO
ᑲ	1617	CANADIAN SYLLABICS CARRIER JE
ᑲ	1618	CANADIAN SYLLABICS CARRIER JEE
ᑲ	1619	CANADIAN SYLLABICS CARRIER JI
ᑲ	161A	CANADIAN SYLLABICS SAYISI JI
ᑲ	161B	CANADIAN SYLLABICS CARRIER JA
ᑲ	161C	CANADIAN SYLLABICS CARRIER JJU
ᑲ	161D	CANADIAN SYLLABICS CARRIER JJO
ᑲ	161E	CANADIAN SYLLABICS CARRIER JJE
ᑲ	161F	CANADIAN SYLLABICS CARRIER JJEE
ᑲ	1620	CANADIAN SYLLABICS CARRIER JJI
ᑲ	1621	CANADIAN SYLLABICS CARRIER JJA
ᑲ	1622	CANADIAN SYLLABICS CARRIER LU
ᑲ	1623	CANADIAN SYLLABICS CARRIER LO
ᑲ	1624	CANADIAN SYLLABICS CARRIER LE
ᑲ	1625	CANADIAN SYLLABICS CARRIER LEE
ᑲ	1626	CANADIAN SYLLABICS CARRIER LI
ᑲ	1627	CANADIAN SYLLABICS CARRIER LA
ᑲ	1628	CANADIAN SYLLABICS CARRIER DLU
ᑲ	1629	CANADIAN SYLLABICS CARRIER DLO
ᑲ	162A	CANADIAN SYLLABICS CARRIER DLE
ᑲ	162B	CANADIAN SYLLABICS CARRIER DLEE
ᑲ	162C	CANADIAN SYLLABICS CARRIER DLI

ᑭ	162D	CANADIAN SYLLABICS CARRIER DLA
ᑭ	162E	CANADIAN SYLLABICS CARRIER LHU
ᑭ	162F	CANADIAN SYLLABICS CARRIER LHO
ᑭ	1630	CANADIAN SYLLABICS CARRIER LHE
ᑭ	1631	CANADIAN SYLLABICS CARRIER LHEE
ᑭ	1632	CANADIAN SYLLABICS CARRIER LHI
ᑭ	1633	CANADIAN SYLLABICS CARRIER LHA
ᑭ	1634	CANADIAN SYLLABICS CARRIER TLHU
ᑭ	1635	CANADIAN SYLLABICS CARRIER TLHO
ᑭ	1636	CANADIAN SYLLABICS CARRIER TLHE
ᑭ	1637	CANADIAN SYLLABICS CARRIER TLHEE
ᑭ	1638	CANADIAN SYLLABICS CARRIER TLHI
ᑭ	1639	CANADIAN SYLLABICS CARRIER TLHA
ᑭ	163A	CANADIAN SYLLABICS CARRIER TLU
ᑭ	163B	CANADIAN SYLLABICS CARRIER TLO
ᑭ	163C	CANADIAN SYLLABICS CARRIER TLE
ᑭ	163D	CANADIAN SYLLABICS CARRIER TLEE
ᑭ	163E	CANADIAN SYLLABICS CARRIER TLI
ᑭ	163F	CANADIAN SYLLABICS CARRIER TLA
ᑭ	1640	CANADIAN SYLLABICS CARRIER ZU
ᑭ	1641	CANADIAN SYLLABICS CARRIER ZO
ᑭ	1642	CANADIAN SYLLABICS CARRIER ZE
ᑭ	1643	CANADIAN SYLLABICS CARRIER ZEE
ᑭ	1644	CANADIAN SYLLABICS CARRIER ZI
ᑭ	1645	CANADIAN SYLLABICS CARRIER ZA
ᑭ	1646	CANADIAN SYLLABICS CARRIER Z
ᑭ	1647	CANADIAN SYLLABICS CARRIER INITIAL Z
ᑭ	1648	CANADIAN SYLLABICS CARRIER DZU
ᑭ	1649	CANADIAN SYLLABICS CARRIER DZO
ᑭ	164A	CANADIAN SYLLABICS CARRIER DZE
ᑭ	164B	CANADIAN SYLLABICS CARRIER DZEE
ᑭ	164C	CANADIAN SYLLABICS CARRIER DZI
ᑭ	164D	CANADIAN SYLLABICS CARRIER DZA
ᑭ	164E	CANADIAN SYLLABICS CARRIER SU
ᑭ	164F	CANADIAN SYLLABICS CARRIER SO
ᑭ	1650	CANADIAN SYLLABICS CARRIER SE
ᑭ	1651	CANADIAN SYLLABICS CARRIER SEE
ᑭ	1652	CANADIAN SYLLABICS CARRIER SI
ᑭ	1653	CANADIAN SYLLABICS CARRIER SA
ᑭ	1654	CANADIAN SYLLABICS CARRIER SHU
ᑭ	1655	CANADIAN SYLLABICS CARRIER SHO
ᑭ	1656	CANADIAN SYLLABICS CARRIER SHE
ᑭ	1657	CANADIAN SYLLABICS CARRIER SHEE
ᑭ	1658	CANADIAN SYLLABICS CARRIER SHI
ᑭ	1659	CANADIAN SYLLABICS CARRIER SHA
ᑭ	165A	CANADIAN SYLLABICS CARRIER SH
ᑭ	165B	CANADIAN SYLLABICS CARRIER TSU
ᑭ	165C	CANADIAN SYLLABICS CARRIER TSO
ᑭ	165D	CANADIAN SYLLABICS CARRIER TSE
ᑭ	165E	CANADIAN SYLLABICS CARRIER TSEE
ᑭ	165F	CANADIAN SYLLABICS CARRIER TSI
ᑭ	1660	CANADIAN SYLLABICS CARRIER TSA
ᑭ	1661	CANADIAN SYLLABICS CARRIER CHU

ᑭ	1662	CANADIAN SYLLABICS CARRIER CHO
ᑭᑦ	1663	CANADIAN SYLLABICS CARRIER CHE
ᑭᑦᑦ	1664	CANADIAN SYLLABICS CARRIER CHEE
ᑭᑦᑦᑦ	1665	CANADIAN SYLLABICS CARRIER CHI
ᑭᑦᑦᑦᑦ	1666	CANADIAN SYLLABICS CARRIER CHA
ᑭᑦᑦᑦᑦᑦ	1667	CANADIAN SYLLABICS CARRIER TTSTU
ᑭᑦᑦᑦᑦᑦᑦ	1668	CANADIAN SYLLABICS CARRIER TTSTO
ᑭᑦᑦᑦᑦᑦᑦᑦ	1669	CANADIAN SYLLABICS CARRIER TTSTSE
ᑭᑦᑦᑦᑦᑦᑦᑦᑦ	166A	CANADIAN SYLLABICS CARRIER TTSTSEE
ᑭᑦᑦᑦᑦᑦᑦᑦᑦᑦ	166B	CANADIAN SYLLABICS CARRIER TTSTSI
ᑭᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ	166C	CANADIAN SYLLABICS CARRIER TTSTSA
X	166D	CANADIAN SYLLABICS CHI SIGN
x	166E	CANADIAN SYLLABICS FULL STOP
ᑭᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ	166F	CANADIAN SYLLABICS QAI
ᑭᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ	1670	CANADIAN SYLLABICS NGAI
ᑭᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ	1671	CANADIAN SYLLABICS NNGI
ᑭᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ	1672	CANADIAN SYLLABICS NNGII
ᑭᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ	1673	CANADIAN SYLLABICS NNGO
ᑭᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ	1674	CANADIAN SYLLABICS NNGOO
ᑭᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ	1675	CANADIAN SYLLABICS NNGA
ᑭᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ	1676	CANADIAN SYLLABICS NNGAA