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A GRAMMAR OF LEXICAL SUFFIXES IN COLUMBIAN SALISH

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A grammar of lexical suffixes in most Salishan languages must account for two things: stress and order.¹ Importance of one or the other may vary according to the predictability of stress (as in Sliammon, where stress is always on the first syllable of a word) or the propensity for compounding lexical suffixes (compare Columbian, which compounds them relatively freely, with Upper Chehalis, which does so rarely²). This paper deals with these two problems in Columbian Salish (hereafter Cn), but makes no claims that these solutions are applicable to any other language.

Stress placement in a complex word is one of the most difficult problems in nearly all Salishan languages, and Cn is no exception. Every full word must have one and only one primary stress. Most suffixes and many roots have both stressed and unstressed variants. The problem is to make generalizations as to whether the root or a suffix will be stressed in any given combination. Clearly there are some roots and some suffixes which are basically stressed and others which are basically unstressed (hereafter to be called strong and weak, respectively; "stressed" and "unstressed" will refer to actual occurrence of stress). Other roots seem to be variable as to stress according to the suffixes that are added to them; most suffixes that can be stressed have variable stress. But few of these groups are entirely consistent--strong roots sometimes occur unstressed and weak roots sometimes occur stressed; variable roots seem simply to be unpredictable. The first two inconsistencies are easy to deal with. A strong root will be unstressed under two conditions: 1) when followed by a strong suffix, and 2) when followed by two or more lexical suffixes, at least one of which is variable (or strong). A weak root will be stressed only when

followed by one or more weak suffixes, or when final in a word.³ Otherwise any strong root will dominate any weak or variable suffix, any strong suffix will dominate any weak or variable root, any variable root will dominate any weak suffix, and any variable suffix will dominate any weak root. Examples of each of the nine possible combinations follow.

1. strong root + strong suffix

kʷaʔútiya? 'carry in the hand' (kʷán- 'take, carry', -útiya? 'around')
maʔʷxíxəməŋ 'ruin something for someone' (maʔʷ- 'break', -xíx 'benefactive')

2. strong root + variable suffix

tkʷáŋksən 'shake hands' (kʷán- 'take, carry', -áks/-kst 'hand')
namaʔʷkən 'he broke his back' (maʔʷ- 'break', -íkən/-kən 'back')

3. strong root + weak suffix

kʷanta? 'take it!' (kʷán- 'take, carry', -ta? 'sg. imperative')
maʔʷəlqs 'he broke his nose' (maʔʷ- 'break', -əlqs 'nose, point, end')

4. weak root + strong suffix

nkəmaʔqáyt 'shoulder' (kəm- 'surface, area', -aʔqáyt 'shoulder')
nksələwás 'mean person' (kəs- 'bad', -ələwás 'chest, heart')

5. weak root + variable suffix

snkəmíkən 'back' (kəm- 'surface, area', -íkən/-kən 'back')
kəstəminən 'hate' (kəs- 'bad', -mín/-məŋ 'instrumental')

6. weak root + weak suffix

tkəməlqstxən 'shin' (kəm- 'surface, area', -əlqst 'shin', -xən 'foot, leg')
kəst 'bad' (kəs- 'bad', -t 'characterization')

7. variable root + strong suffix

tqʔilləwás 'suffer' (qʔíl-/qʔil- 'sick', -ələwás 'chest, heart')
kixarləwəsən 'bib' (xár-/xar-/xər- 'cover with flat object', -ələwás 'chest, heart')

8. variable root + weak suffix

qʔilt 'sick' (qʔíl-/qʔil- 'sick', -t 'characterization')
xʷúkʷiən 'I washed it off him' (xʷúkʷ-/xʷkʷ- 'clean', -i- 'benefactive', -ən 'I')

9. variable root + variable suffix

snaqʔilíʔa? 'stomach-ache' vs. snqələpás 'toothache' (qʔíl-/qʔil- 'sick', -aʔíʔa?/-íʔa? 'body (inside)', -apás/-aps 'tooth')

sx^wiyaps 'toothache' vs. sx^wiyána? 'cactus' (x^wiy-/x^wiy- 'sharp', -apás/-aps 'tooth', -ána?/-əna? 'ear')

tx^wúk^wsqt 'clear sky, clear day' vs. x^wk^wíça?ən 'clean lint off a blanket' (x^wúk^w-/x^wk^w- 'clean', -ásqt/-sqt 'sky, day', -íça?/-ça? 'body (outside)')

katxárk^w 'thin layer of scum on water' vs. snxəráxən 'a shield' (xár-/xar-/xər- 'cover with flat object', -átk^w/-k^w 'water', -áxən/-xən 'upper arm')

scílksqt 'Friday' vs. ncilkstqín 'five tipis put together' (cílks 'five', -ásqt/-sqt 'sky, day', -qín/-qən 'head')

An example of a strong root losing stress to a combination of variable or strong lexical suffixes is kłçuščínxən 'deer-hoof rattle worn on ankle' (čúš- 'make a banging noise', -cín/-cən 'mouth, edge', -xən 'foot, leg'); cf. čušktəm 'rattle, shake a rattle' (-ákst/-kst 'hand'). Another may be kłk^wəncənáksən 'grab by the wrist' (k^wán- 'take, carry',⁴ -cín/-cən 'mouth, edge', -ákst/-kst 'hand') or nk^wənapúsxən 'hold someone by the arm' (-áp 'base, bottom, lower end', -ús/-s 'eye, face', -áxən/-xən 'upper arm') vs. yapk^wənsən 'grab someone passing by the arm or hand'. There are exceptions to this particular generalization, e.g., snaxítawásqən 'rooster's comb' (xít- 'ridge', -áws/-áwas/-u?s/-aws 'middle, center', -qín/-qən 'head') vs. snaxítqən 'fancy ridge (on a house)' and katxítətk^w 'ripples on water' (-átk^w/-k^w 'water').

As can be seen from the examples in (9) above, combinations of variable roots and suffixes are unpredictable. Rare instances even occur of two forms with the same variable root and suffix differing only in stress placement. I have only one example in Columbian, sélyaqən 'round head' vs. selyáqín 'a knob southeast of Waterville (place-name)' (sél- 'round', -áya?/-ya? 'head', -qín/-qən 'head'), and one in Upper Chehalis, wítq^w 'out on a prairie' vs. wítáq^w 'middle of a prairie' (wít-/wit- 'middle', -áq^w/-q^w 'prairie').

As noted above, a sequence of variable or strong lexical suffixes always attracts stress; there is one exception to this: -áya?-qən often does not, e.g., ?ack^wúsyayqən 'curly hair', n?aw?áwyayqən 'stand on head'. When more than one variable or strong suffix occurs (whether lexical or otherwise), a decision must be made as to which will bear stress. Any strong suffix will retain stress; in a sequence of two strong suffixes, the second will be stressed.

Examples are infrequent, but it appears that in combinations of variable lexical suffixes and non-lexical suffixes, a lexical suffix will be stressed. And when there are two variable lexical suffixes, the last one will be stressed; there are a few exceptions, indicating that there is a hierarchy of stress dominance. -qín/-qən 'head' loses stress to -áp 'base, bottom, lower end', -áwas/-áws/-u?s 'middle, center', or -áya?/-ya? 'head'; -álx^w/-lx^w 'house' loses stress to -á?st/-a?st 'stone'; -íca?/-ca? 'body (outside)' loses stress to -áp 'base, bottom, lower end'; and -áxən/-xən 'upper arm' loses stress to -ús/-s 'eye, face'. Only eight three-member sequences occur, and four of these have weak -xən 'foot, leg' as last member. But only one of the other four has stress on the final member: -kən-amx^w-cín. All other three-member sequences stress the penultimate suffix. Four-member sequences are stressed like three-member sequences.

The order in which lexical suffixes occur in sequences does not seem to be random. Suffixes occur consistently before or after specific other suffixes. The order may turn out to be insignificant, but since the total meaning of a complex form is not a sequential accretion of meaning corresponding to the physical sequence of suffixes (other than in layered derivations), I assume that it is not random. Because of limited co-occurrences, absolute order between all occurring suffixes is not possible. Insofar as it is possible to determine it, ordering seems to be according to the following list. The number of combinations in which each suffix participates is given in parentheses after the gloss for the suffix. Suffixes enclosed in a left bracket show no preference as to their relative order with other members of that group. Several suffixes occur in only one combination, so nothing can be indicated about their place in this sequence except that they immediately precede or follow another suffix; these are the suffixes to the left (for preceding) and right (for following) of the main column.

-s ? (8)

{ -álus 'a stack'
-álp 'back part of the neck'

[-ámx 'people' (2)

[-áws/-áwas/-u?s/-áws 'middle, center' (15) -ásqt/-sqt 'sky, day'

-cín/-cən 'mouth, edge' (12) -áks(ən)/-ks(ən) 'hand, arm'

-áya?/-ya? 'head' (4)

	-áp 'base, bottom, lower end' (3?)	
	-ána?/-əna? 'ear' (4)	
	-qín/-qən 'head' (17)	{ -álx ^w /-lx ^w 'skin, hide'
		-ál/-əl ?
		-á?sən 'long solid object'
		-álp/-lp 'tree, plant'
-míx ^w /-əmx ^w 'person, man'	-áíq ^w /-lq ^w 'long or tall cylindrical object'	
	-áwt/-ut 'distant' (2)	
	-ús/-s 'eye, face' (5)	-áxən/-xən 'upper arm'
	-á?st 'stone' (4)	
	-álx ^w /-lx ^w 'house' (4)	
	-ált/-əlt 'child' (4)	
(-əlqs 'nose, point, end)	-ákst/-kst 'hand' (3)	
-ánk/-ənk 'belly, flat surface'		
	-ímt/-əmt ? (5)	
	-átk ^w /-k ^w 'water' (8)	
	-áp 'base, bottom, lower end' (9?)	
-álx ?	-íkən/-kən 'back' (9)	-úps/-ps 'tail, rump'
	-íca?/-ca? 'body (outside)' (5)	
-əlqst 'shin'	-xən 'foot, leg' (16)	
-ápəla?/-pəla? 'handle'		
	-áíq ^w p 'throat, oral cavity' (2)	
	-áíqs/-lqs 'clothes, dress' (3)	
	-əlqs 'nose, point, end' (2)	
	-átk ^w p/-átk ^w úp/-k ^w p 'fire' (2) ⁵	
	-úləx ^w /-ələx ^w 'soil, earth' (5)	
-áíca?/-íca? 'body (inside)'	-wíl/-wəl 'canoe, conveyance, container' (3)	
	-əx ^w /-x ^w 'resident' (8)	
	-útiya? ? (5)	

Note that -áṗ occurs in two positions; so does -əlqs, but it is infrequent in combinations and is placed between parentheses in the left column to separate it from other suffixes which occur in only one combination. It is not certain that -s is a lexical suffix; its function or meaning have not yet been established.

Several of these suffixes should be reducible (at least historically) to a sequence of -ál-/-əl- (a combining element of indeterminate function) plus a lexical suffix. But this -ál- should precede all lexical suffixes occurring in a word (as it does, e.g., in Ch). Here, however, it occurs with the following suffix as a unit, never separated, and this unit then occurs following another lexical suffix. Synchronically, then, these forms with -ál- must be considered units (unless a function for -ál- can be found which is compatible with compounding of lexical suffixes). Such suffixes found to occur in combinations are: (a) after -s: -álus, -álp̄s, -álp̄p; (b) after other lexical suffixes: -álp̄w, -álp̄s, -álp̄w, -álp̄t, -əlawás, -əlp̄s, and possibly others (the two groups do not overlap).

Differences in the form of a few other suffixes suggest further analysis. Isolation of an element -ál-/-l- is suggested by -álčaʔ/-lčaʔ 'body (inside)' vs. -íčaʔ/-čaʔ 'body (outside)'. The variation between the stressed and unstressed variants of -átp̄p/-k̄p 'fire' and -átp̄w/-k̄w 'water' suggests the isolation of an element -át-. And finally, the semantically similar sets -ákst/-kst 'hand' vs. -áks(ən)/-ks(ən) 'hand, arm', -áʔst 'stone' vs. -áʔsən 'long solid object', and -əlp̄s 'nose, point, end' vs. -əlp̄st 'shin' suggest that -t and -n may be extensions added to these and various other lexical suffixes, and may actually be -t 'characterization' and -n 'nominalizer'.

Some exceptions to the above order do occur, indicating layering of derivation. -cín meaning 'language' may come last, following -əx̄w 'resident'. Another layered sequence is -əluʔx̄w-úlp̄x̄w, the only instance of the same suffix occurring twice on one word.

Three-member sequences (and four, if they are valid) vary the above order somewhat. Only eight three-member sequences have been found, and only two that may consist of four suffixes (both of which augment existing three-member sequences with -s-). These differ from two-member sequences in at least two ways, the second of which was noted above: (1) the ordering of elements is

different in -apáʷsqən and -kənamx^wcín; (2) stress is not on the last element as expected in -apáʷsqən, -(s)qənúskst, and probably -(s)apúsxən.⁶

Often a sequence of suffixes has a specialized meaning, not necessarily an obvious sum of the meanings of the members of the sequence. Thus -cənákst and -cənáksən always refer to the wrist, and -cínxən to the ankle. Other such specialized meanings are: -cənánaʷxən 'ankle bone', -qənúskst 'finger', -qənúsxən 'toe, hoof', -áp̄xən 'heel', -apúsxən 'upper arm', -áp̄xən 'lower end, base', -áʷasqən 'crown of the head', -úsxən 'hip, thigh', -əlqswíl 'end of a canoe', -əlqstxən 'shin, lower leg', -cənát^wk 'shore', -(á)yaʷqən 'head, knob', -qənwíl 'load' or 'car', -qínxən 'knee(cap)'. Others always occur with one or another positional prefix (S = stem): niʷ-S-ankákst 'palm', kat-S-qənál 'lid, cover', n-S-qənálx^w 'house top', n-S-cənánaʷ 'temple', niʷ-S-áp̄qən 'hair on the head', n-S-sáʷs 'junction, point of contact', n-S-sáʷsxən 'knee', n-S-íkənxən 'sole', kat-S-íkənxən 'footwear'.

Personal names commonly occur with two lexical suffixes.⁷ Often the root of a personal name occurs nowhere else in the language, so the total name cannot be translated; however the suffixes are usually clear enough. At least two suffixes occur only in personal names, both as the first element in a suffix compound: -ímt/-əmt and -álx. Because of this restricted occurrence and the unidentifiable roots, neither can be glossed. -álx precedes only -íkən/-kən 'back', but -ímt/-əmt can occur before five other suffixes. Besides these combinations, personal names provide seven suffix compounds that have not been found elsewhere. Some of these may in fact not be Columbian names inasmuch as intermarriage with the Colvilles has brought Colville names into the language, but the order of the suffixes follows the list given above.

FOOTNOTES

1. Research on Columbian Salish has been made possible by grants from the National Science Foundation, the American Philosophical Society Library, and the University of Kansas. I wish to thank especially Laurence C. Thompson and M. Terry Thompson for comments and suggestions on earlier drafts of this paper.

2. In Upper Chehalis (Ch), sequences of lexical suffixes are much less frequent than in Cm; they might even be considered rare. Those that do occur seem to be much more loosely combined than in Cm. Or, put another way, the Cm sequences often have a specialized meaning by themselves and are added to the root as a sequence; in Ch, the second and third suffixes seem to be added to a stem already containing a lexical suffix (like the Cm forms considered layered). Only 13 two-member and one three-member sequences have been found in Ch: -iyaq-als in čípx^wiyqałsn 'eyelashes', -apš-alucn in nsúlapšalucn 'mouth of Chehalis River', -aqp-uł in talaqápuł 'call for a canoe', -či-aq^w in taličíaq^w 'river side of a prairie', -ax^w-inp in silá[?]lax^winp 'floor', -an[?]-i[?] in sk^watá[?]nił 'baby mouse', -als-i[?] in max^wá[?]łsi[?] 'baby squirrel', -łni-i[?] in qinúłiłi 'baby wolf', -či-amš in sqé^włičiamš 'Puget Sound Indians', -stq-alis in q^wá[?]stqls 'headache', -iaq[?]-als in q^waciaq[?]als 'upside down, on one's head', -iyq-łwłtx^w in čsqíyaqlwłtx^w 'anthill', -aił-q in q^wayáilq 'Upper Chehalis language', -aił-q-łn[?] in q^wayáilqłn[?] 'Upper Chehalis woman'. Little ordering is possible among these; -i[?] is a final suffix, as is probably -łn[?], and -áłs precedes -i[?]. -či precedes -aq^w and -amš; -als or -als (= -alis) follows -iyaq, -iaq[?], and -stq. -al- is a more obviously independent unit in Ch than in Cm, but nevertheless occurs as part of complex suffixes -als or -als, -alucn, and -łwłtx^w. Generalizations about stress cannot be made for Ch, except to observe that root stress seems to be more dominant than suffix stress; only once is primary stress on one of a sequence of suffixes.

Only three Ch sequences have both members cognate to Cm suffixes: -an[?]-i[?] (Cm -ána[?], -ált), -áłs-i[?] (Cm -ús, -ált), and -či-amš (Cm -átk^w, -ámx or -ámx^w). The third of these is in a different order from the Cm order.

3. Cm has several frequently occurring weak suffixes, resulting, if necessary, in this shift of stress back to weak roots. Some of these suffixes have stressed variants in some of the neighboring Salishan languages. Thus weak roots occur with stress more frequently than in these other languages.

4. $k^w\acute{a}n-$ is problematic. The root may actually be $k^w\acute{a}n\acute{a}-$, as in several other Salishan languages.

5. It is unclear why a few suffixes have variant stress location, e.g., $-átk^w\acute{p}/-atk^w\acute{u}p$ 'fire', $-ápas/-apás$ 'tooth', $-áskit/-askáy\acute{t}$ 'throat, chest'. Note that the strong root $\acute{x}ít-$ 'ridge' loses stress before the $-apás$ variant of 'tooth': $n\acute{x}itapás$ 'a saw'.

6. $-x\acute{a}n$ does have a stressed form $-áx\acute{a}n$, unlike $-x\acute{a}n$, $-əlqs$, $-əlqst$, and $-əx^w$, but no examples occur of the stressed form in a combination of suffixes.

7. Suffixes on personal names are consistently associated with one sex or the other, with few exceptions. An unfamiliar name can thus be identified as male or female according to the final suffix. Women are definitely slighted in the distribution of suffixes, having only two or three to themselves and sharing up to three others; men, on the other hand, are designated by over 15 suffixes. The two suffixes used most frequently on women's names are $-álqs/-lqs$ 'clothes, dress' and $-átk^w/-k^w$ 'water'. A few others use $-í\acute{c}a?/-\acute{c}a?$ 'body (outside)' (and extended to mean 'robe'), but men's names also have this suffix-- and more frequently; I can detect nothing within this group of names to indicate why some are given to women, others to men (e.g., $ki^?kaymí\acute{c}a?$, $q^w\acute{a}mq\acute{a}hí\acute{c}a?$, and $q^w\acute{a}yí\acute{c}a?$ are women's names, but $p\acute{a}h\acute{q}stí\acute{c}a?$, $y\acute{a}n\acute{a}mu^?sí\acute{c}a?$, and $q^w\acute{a}iyí\acute{c}a?$ are men's names). Two suffixes occur once each on a man's name and a woman's name: $-úps/-ps$ 'tail, rump' (m. $sna\acute{s}^wí\acute{c}ps$, f. $k\acute{\lambda}əx^w\acute{x}^wk\acute{a}húps$) and $-úmt$ (unidentified) (m. $lax^wúmt$, f. $nha^?númt$). The most common suffixes on men's names are $-qín/-q\acute{a}n$ 'head', $-x\acute{a}n$ 'foot, leg', $-ík\acute{a}n/-k\acute{a}n$ 'back', $-úl\acute{a}x^w/-əl\acute{a}x^w$ 'soil, earth', $-áx\acute{a}n/-x\acute{a}n$ 'upper arm', $-ás\acute{q}t/-s\acute{q}t$ 'sky, day', $-cín/-c\acute{a}n$ 'mouth, edge', $-ús/-s$ 'eye, face', $-í\acute{l}x$ (unidentified), and $-í\acute{l}a?$ (unidentified).

APPENDIX A: COMPOUND LEXICAL SUFFIXES

Listed in alphabetical order of the final suffix, and then the penultimate suffix, since the meaning of forms is based more on the final suffix than others.

-am-áksən	stkəlkəlxamáksən	pine limbs
-cən-áksən	kíkənkənpəcənáksən	cuffs
	kík ^w əncənáksən	grab by the wrist
-alqs-ákst	tíkəmalqsákst	lower arm
-alq ^w -ákst	tíkəmalq ^w ákst	lower arm
-ənk-ákst	ni [?] kəmañkákst	palm of the hand
	(s)ni [?] xənpəñkákst	callus on the hand
-cən-ákst	ckiyər ^w k ^w cənákst	bracelet
	kíkəmcənákst	wrist
	kímahəncənákst	sprain one's wrist
	kímərk ^w cənákst	dislocate/sprain one's wrist
	lənpcənákst	broken wrist
	skíkənpəcənákst	bracelet
-əlqs-ákst	níkəməlqsákst	elbow
-qən-ákst	ntəmtəmx ^w qənákst	worn-out elbows
-s-ákst	snqənnəsákst	elbow
-qən-ús-kst	skənpəqəñúskst	ring
	stəwtqəñúskst	little finger
-qən-ál	kala [?] wqənáln	bottlecap
	katk ^w ə [?] qənáln	opener
	katqə [?] qənáln	cork for a bottle
	katxəñqənáln	a cover, lid
-s-álps	snqəpəpqsálps	nape of neck
-atk ^w -álqs	npiyatk ^w álqs	wash clothes
	npiyatk ^w álqsən	washtub, washing-machine
-əmx ^w -álq ^w	sqəltəmx ^w álq ^w	wood around the core of a tree
-u [?] s-álq ^w	miymiyu [?] sálq ^w	middle of a pole or tree
-s-álq ^w p	nəpəpsálq ^w p	sore throat
-əws-ált	sqa [?] əwsált	middle child
-qən-ált	kíqəlxqəñált	setting bird

-uʔt-ált	staʔuʔtált	youngest child
-s-álus	nčəpəqsálus	put together lengthwise
	snčəpəpəqsálus	joints
-s-alúyaʔ	wəkʷəkʷsalúyaʔ	play peek-a-boo
-qən-álxʷ	čəmqənálxʷ	brains
-qən-álp	qʷiyqʷiyqəhálp	wild lupine
-aʔst-álxʷ	síkʷaʔstálxʷ	Indian house of mats
-cən-álxʷ	skəmçənálxʷ	doorway
-qən-álxʷ	nkəčqənálxʷtn	ridge-pole
	nkəmçənálxʷ	ceiling
-s-álxʷ	nxərsálxʷtn	curtain
-ap-ánaʔ	nmoqʷapánaʔ	bulge on the side of the face
-cən-ánaʔ	nkəłçənánaʔ	part hair on the side
	nkəmçənánaʔ	temple
	ntəqʷçənánaʔan	slap on the cheek or side of the head
	ntəqʷçənánaʔan	holler into one's ear
	ntəscənánaʔan	slap on the cheek or side of the head
-atkʷ-áp	nłəxʷatkʷápən	boil an egg
-ay-áp	łqəłxaýápəm	pull a rope against something pulling on the other end until you almost sit down
-uʔs-áp	kʷusuʔsáp	old-fashioned dress with a gathered skirt
-qən-áʔsən	łəčqənáʔsən	salmon-club
-ap-áʔst	qʷayápáʔst	Camp Gilbert
-qən-áʔst	sxəłtqənáʔst	pipestone
-akst-átkʷ	nkʷłpakstátkʷən	I dropped it into water deliberately
-kst-átkʷ	naxʷirkstátkʷəm	reach into water
-cən-átkʷ	kłaʔacənátkʷ	reach the shore
	łaʔçənátkʷ	right next to the shore
	łqaləxcənátkʷ	sit on the edge of a river
	sčəłçənátkʷ	trees along the shoreline
	xənpçənátkʷ	ice along the shore
-qən-átkʷ	snqəłpçənátkʷ	a valley off Antoine Creek Valley
-s-atkʷúp	kəłkʷsatkʷúptn	a poker
	tkəčsatkʷúp	put a pole or log on a fire

-s-áw's	ncəpqsáw's nkəłpsáw's nkʷəłkʷəłpsáw's nkʷəłsáw'sən nlałʷpsáw's nlałʷsáw's nqaʔsáw's ntəxʷsáw's ntəxʷsáw's lx ntəlsáw's	splice, couple, extend up to the knees in depth come uncoupled uncouple, come apart, out of place joint
-əl-áxən	tkəməláxən	couple pipes with a sleeve coupling
-s-áy	čəlsáyən	sandwich
-amx-cín	nxəʔamxcín	fasten a piece on the side to hold rigid
-kən-amxʷ-cín	nsəkʷtkənəmxʷcín	brother and sister
-əxʷ-cín	nyapənəxʷcín	to glue
-uʔs-cín	məqʷuʔscín	shoulder-blade
	nkəčəcuʔscín	eye-guards of antlers
	nqaʔuʔscín	Columbian language
	nyəmmuʔscín	language of coast people
	nyərəkʷuʔscín	English
-áp-əlqs	nkintápəlqs	knob at Carlton
	nxənpəlqsən	pole crosswise in a creek
-ámx-əxʷ	sxaʔámxəxʷ	wedged in a crotch
-átkʷ-əxʷ	snqlátkʷəxʷ	pole crosswise in a creek
-áw's-əxʷ	npəsqʷáw'səxʷ	arch over a canyon
-cən-əxʷ	skwáxcənəxʷ	trail
-íkən-əxʷ	səkʷtikənəxʷ	tailgate
-kʷ-əxʷ	skatitəltkʷəxʷ	local
-úləxʷ-əxʷ	spəłəmuləxʷəxʷ	Okanagon Valley resident
-xən-əxʷ	stqʷáyxənəxʷ	Wenatchi
-áp-čaʔ	tsápčaʔ	Moses Columbia
-cən-íčaʔ	swəpcəníčaʔ	person from the coast
-aʔst-íkən	čsaʔstíkən	Big Bend country people
		Methow Valley resident
		Blackfeet
		hard leather poorly tanned
		Hudson Bay blanket
		Arbuckle Mountain

-uʔs-íkən	nciyuʔsíken nɬənpuʔsíken snmiyʔtuʔsíken sqʷiʔtuʔsíken	hearth tree breaks in the middle middle of a lake or river 44 repeater rifle
-áp-qən	niʔkɬápqən niʔyəmápqən	part hair in the middle hair ornament
-áʷas-qən	nɬəqʷáʷasqən nɬəmáʷasqənc nttqáʷasqən snaɬítaʷasqən	bald-headed pass overhead California quail rooster's comb
-ap-áʷs-qən	kʷəɬpaʔpáʷsqən	let go from the mouth
-áyaʔ-qən	kʷəɬkʷaɬáyaʔqən nɬʰaxʷáyaʔqən sɬamáyaʔqən wisxənayaʔqən	head bobbing up and down on land a canyon southeast of Beebe skull long-head
-iyaʔ-qən	sɬítkiyaʔqən	pileated woodpecker
-uʔs-qín	nɬqʷuʔsqín	pack-rope
-yaʔ-qən	ʔackʷusyaʔqən kʷíwiyaʔqən nʔawʔáyaʔqən pəlyáʔqən səlyáʔqən xʷúpiyaʔqən	curly hair long-head stand on head flat-head round-head hair is messed up
-ənaʔ-qín	ʔuʔkənaʔqín	Douglas
-yaʔ-qín	səlyáʔqín	a knob southeast of Waterville
-əluʔxʷ-úlexʷ	ɬəxʷəluʔxʷúlexʷ	sand
-kən-úlexʷ	pəɬkənúlexʷ səkʷtkənúlexʷ	Zena (or Olds?); a place near McFarland Creek
-xən-úlexʷ	stqʷiyxənúlexʷ	the coast area
-kən-úps	tkəmkenúps	Montana
-aʷs-ús	xəmaʷsús qəʷísqən	hip
-awt-ús	pstawtús	double-bit axe
-cən-ús	ɬəkənús	across the river
		shore, toward the river

-u?s-ús	cxtxtu?sús	go in a circle
	kəcəmu?sús	extend around
	ni?klu?sús	part hair in the middle
	ni?kəmu?sús	forehead
	ni?lq ^w u?súsən	band across the front of a horse's head
	xətxtu?sús	extend around
-akst-útiya?	ksək ^w takstútiya?	using one hand
-alq ^w p-útiya?	nkəalq ^w pútiya?	straight bar (bit)
	nɪq ^w alq ^w pútiya?	snaffle bit
-atk ^w p-m-útiya?	nciyatk ^w p ^m útiya?	fire-place
-qən-útiya?	npa?xənqənútiya?tn	shovel
-xən-útiya?	(s)qə?xəútiya?	moccasin
-əlqs-wíl	s [?] awtlqswíl	stern of a canoe
	skəməlqswíl	front of a canoe
	sxitlqswíl	bow of a canoe
-lca?-wíl	tkəmɪlca?wíl	side of a canoe
	təkɪlca?wíl	pole a boat
-qən-wíl	ka?laqənwíl	three cars
	musaqənwíl	four cars
	nəqsqənwíl	a load, wagon-load
	qawsqənwíl	two loads
	tqawsqənwíl	two cars
-ána?-xən	sx ^w əlaña?xən	hoof
-cən-ána?-xən	sməq ^w ciña?ña?xən	ankle-joint
	stəpçña?ña?xən	ankle-joint
-áp-xən	ciyápxən	build a fire at the butt of a tree
	čəlčəlápən	spurs
	nɪcápxən	knot on the end of a rope
	nimimápxən	doubletree
	nɪənpápxən	broken off at the ground
	nɪpɒnpənápən	doubletree
	təmx ^w ápxən	worn-out heel
	(s)kəmapən	heel
-ápəla?-xən	kəmapəla?xən	heel

-á'was-xon	kíak'áwasxon nk'cayxáwa'sxon	garter ladder
-á'ws-xon	kliiylyá'wsxon	get a nail in a tire
-s-á'ws-xon	nmahá'wsxon nmórk'wá'wsxon snqomícsá'wsxon	knee comes out of joint dislocate/sprain a knee knee
-áya?-xon	k'con'canwáya'xon	crippled foot
-cín-xon	kík'omcínxon kímahá'cínxon kíçu'çcínxon k'ímórk'w'cínxon	ankle sprain an ankle deer-hoof rattle worn on the ankle dislocate/sprain an ankle
-u's-cín-xon	k'íniyriyu'scínxon	half-way up to the knees in depth
-ólqst-xon	k'ém'ólqstxon sklíyyólqstxon slá'opw'ólqstxon tkémólqstxon	skinned shin sliver in the lower part of the leg hair on the legs lower leg
-íkon-xon	kála'w'íkonxon kála'w'íkonxonem kat'axíkonxonem kat'omíkonxon nk'omíkonxon nk'w'ópíkonxon nla'w'ól'w'íkonxon nqxíkonxon ntémx'w'íkonxon nx'w'afíkonxon snkomíkonxon	button-hook button shoes lace boots instep feel a rock in one's shoe while walking horse loses a shoe horseshoe horseshoe nails, shoe tacks worn-out sole hole in the sole of a shoe sole of the foot
-qín-xon	k'ópqínxon mahahqínxon qá'qínxon	above the knees in depth knee-cap slips to one side knee(cap)
-ús-xon	mahá'úsxon nk'omúsxon nla'úsxon nlanpúsxon	pull hip out of joint thigh up to the crotch in depth broken hip

	nmork ^w úsxən	dislocate/sprain a hip
	snliyyúsxən	sliver in the thigh
	snq ^w a [?] púsxən	hip pocket
	xəlúsxən	fishing platform
-qən-ús-xən	ntən ^w qənúsxən	worn-out toe of a shoe
	nx ^w a [?] qənúsxən	hole in the toe of a shoe
	skiseq [?] qənúsxən	split hoof
	stəw [?] qənúsxən	little toe
-ap-ús-xən	ləkapúsxən	armband
	mork ^w apúsxən	break an arm
	nk [?] əmapúsxən	upper arm
	nk [?] ən [?] kənpapúsxən	armbands
	nk ^w ənapúsxən	hold by the arm
	nk ^w ə [?] papúsxən	arm slips out of joint
	nla [?] apúsxən	up to the armpits in depth
	n [?] ən [?] papúsxən	broken (upper) arm
	npiyapúsxən	pinch on the arm
	sn [?] ə [?] apúsxən	shoulder-joint
-s-ap-ús-xən	sn [?] ə [?] ni [?] sapúsxən	shoulder-joint

APPENDIX B: PERSONAL NAMES

-əmt-álqs	čosəmtálqs	f.
	ləxəmtálqs	f.
	mələmtálqs	f.
	sínəmtálqs	f.
	skiyəmtálqs	f.
	sləxəmtálqs	f.
-xən-álqs	sk ^w uxənálqs	f.
	sq ^w itxənálqs	f.
	yatxənálqs	f.
-uʔs-ásqt	čəlxuʔsásqt	m.
	k ^w əlusásqt	m.
-alt-átk ^w	k ^w unaltátk ^w	f.
-əmt-átk ^w	siyəmtátk ^w	f.
	sləq ^w umtátk ^w	f.
-əmt-k ^w	kkinəmtk ^w	f.
	qəqčəmtk ^w	f.
	sínəmtk ^w	f.
-imt-k ^w	six ^w imtk ^w	f.
	sləximtk ^w	f.
-uʔs-cín	nx ^w əstuʔscín	m.
	yərk ^w uʔscín	m.
-əmt-íčaʔ	pəʔx ^w əmtíčaʔ	m.
	q ^w iyəmtíčaʔ	m.
-kən-íčaʔ	nxɪʔkəníčaʔ	m.
-uʔs-íčaʔ	yənəmuʔsíčaʔ	m.
-álx-kən	kəslaʔx ^w álxkən	m.
	ləf ^w ləf ^w álxkən	m.
	nq ^w x ^w álxkən	m.
	paqɪpálxkən	m.
	xixitálxkən	m.
-int-kən	səlpimtkən	m.
-áyaʔ-qən	kəniáyaʔqən	m.
	pəlniáyaʔqən	m.

-ay-qen	túq ^w ayqen	m.
-xən-úílox ^w	pa?pa?xənúílox ^w	m.
-kən-úps	kálox ^w x ^w kəíups	f.
-cín-xən	kəlpscínxən	m.
	kímuca?cínxən	m.
	q ^w əlsclínxən	m.
-íken-xən	npá?íkəíxəí	m.
-ímt-xən	kíolxímtxən	m.