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ANALYSIS OF COLD LAKE DIALECT, CHIPEWYAN.

BY PLINY EARLE GODDARD.

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INTRODUCTION.

The Athapascan languages of the North are usually referred to as the Déné from the word which in many dialects means a man who speaks that tongue. It is in the North that we find the largest continuous territory occupied by these people. They have all of the continent north of the Churchill and Peace Rivers on the east side of the Rocky Mountains and on the western side of these mountains, the territory as far south as 57° 30' except that in all parts the Eskimo and other tribes hold the coast. It remains to be determined how many languages and dialects are spoken in this territory and the degree of their relationship.

The Chipewyan are in the southeastern portion of this territory along the Athabaska River and Lake and the lakes and streams draining into the Churchill River. There are minor dialectic variations within this area but no thorough study of them has been made.

The Chipewyan language has been treated by Petitot in his Dictionaire de la langue Déné-Dindjien1 which includes the Chipewyan. This work has a comparative grammar of the Mackenzie languages in the introduction and tables of conjugations as a supplement. Father Petitot has also published a text of Chipewyan in “Traditions indiennes du Canada Nord-Ouest.”2

Father Laurent Le Goff who has been with these people for forty-five years has published a number of books in Chipewyan, using both the syllabic characters and the Roman alphabet, for the use of his parishioners and co-workers. Of particular interest is his “Grammaire Montagnaise ou Chipeweyane” published in 1887. It is also pleasing to know that Father Le Goff has a voluminous dictionary in manuscript which he hopes to publish shortly.

To Father Le Goff and his friends the writer wishes to apologize for his entry upon this field and for this publication put forth after so short a study of the dialect. The chief purpose of the visit was to actually hear a Déné language in order to have a conception of the sounds used that a comparison with the other Athapascan languages, particularly those of the Pacific Coast and the Southwest, might be made.

This paper has been prepared as a result, hoping that the description of the sounds of the language, somewhat more detailed than Father Le Goff has

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1 Petitot, E., Dictionaire de la langue Déné-Dindjien, Paris, 1876.
given, and the illustrative tracings and comparative references to the other groups may prove of value. The material furnished by the texts of the preceding number and word lists has been analyzed and presented in the order followed in the Hupa\textsuperscript{1} and Kato\textsuperscript{2} languages. It will only be necessary to place corresponding sections of these papers and the present one side by side to obtain a comparative view of their relationship.

It is desired to call attention here to the large number of simple substantive elements, monosyllabic nouns, names of parts of the body, terms of relationship, etc., which occur also either on the Pacific Coast or in the Southwest. Of the verbal elements not only are most of the prefixes and stems common to other regions but complex and phonetically modified forms are easily traceable.

It is the phonetic changes that make the language nearly unintelligible to one knowing only southern dialects. The chief difference is in the presence of surd, sonant, and glottally affected $\theta$ ($\theta$, $\theta'$) where most of the Pacific and the Southern dialects have surd, sonant, and glottally affected tongue point consonants ($z$, $s$, $ts$, $ts'$). The sonant stops also are fully sonant instead of intermediate and are lightly articulated approaching continuants.

There occur in the Chipewyan both nouns and verbs for which the people of California and Arizona would have little use, such as $\e\theta\u$, caribou; $de\ ni$, moose; $\ai$, snowshoes; $na\ tse\ de$, to chisel for beaver. It may be possible in the future to show that the natural features of the north are provided with simple definite names and terms while those peculiar to the south have compound names and new formations, or the reverse. If any preponderance of simplicity should be shown to exist in favor of one locality, the argument would be a strong one that migrations originated in that quarter.


\textsuperscript{2} Goddard, Pliny Earle, "Elements of the Kato Language." (Univ. of Calif. Publ., Am. Arch. and Ethn., Vol. 11, No. 1, 1912.)
PHONETICS.

TRACINGS.

Those unfamiliar with the apparatus and work of Rousselot will find a brief description of the method in the American Anthropologist. A kymograph is used with a horizontal cylinder 25 cm. long and 13\frac{1}{2} cm. in diameter driven by a spring clock at a speed of 7 revolutions a minute. White paper is put about this cylinder and given a thin coat of smoke with a candle. A light flexible horn point rests on this paper and moves to the right or left on the end of a lever which is attached to the center of a rubber tambour. For breath tracings a mouthpiece is held rather firmly to the lips and the full force of the emitted breath sent through a tube to the tambour. Variations in the force of the breath are shown by the major movement of the tracing point while the vocal murmur is represented by the fine regular vibrations. The closures of stop consonants are shown by the low straight horizontal lines; the releases by the vertical lines; aspiration by a continued high elevation; and glottal affection by sudden retraction. The continuant consonants result in varying curved elevations, smooth when surd, and with superimposed vibrations when sonant. The liquid \textit{r} shows coarse vibrations caused by the movement of the tongue tip. The sonant \textit{l} has one such movement only. The vowels have strong regular vibrations on lines rising, falling, or straight, according to adjoining consonants and varying stress. The semi-vowels usually show less prominent vibrations and less elevated lines.

It is probable that even in these tracings change in pitch can be measured by counting and comparing the number of vibrations in given lengths of the lines. Stress would be shown, other conditions being equal, by the elevation of the line since the tracing point goes higher with greater strength of the breath but this force of the air column is dependent upon the configuration of the mouth and the degree of the opening of the glottis. It is only possible then to judge stress when the same sound occurs in the syllables under consideration. The duration or length of the sounds may be measured by

referring to the base line drawn by revolving the cylinder before removing the paper. This line has 49 mm. to a second of time or about .02 seconds to a millimeter.

The tracings were made from Jean Baptise Ennou, at Lloydminster, Saskatchewan in a single day. The apparatus arrived in bad condition but after repairs were made, proved to be available for the use desired. The speed in particular seemed to be reliable. Rousselet tambours 2 cm. in diameter freshly covered with good rubber were used; the Marey tambours of 5 cm. proving unsuitable.

Figs. 1 to 26 were made to show the degree of sonancy; a second tambour, having attachment to the larynx furnished a synchronous tracing uninterfered with by mouth movements. In Figs. 5, 7, 8, 13, 14, 15, 16, 18, 21, 25, and 26 the larynx tracing is below and the breath tracing above. In the remainder the breath tracing is below. Tracings from the nose to show the nasalization of the vowels were attempted but proper adjustment could not be secured in the time available.

The numerous breath tracings were selected to illustrate the more important words and elements in the dialect. They should prove valuable in distinguishing the sonant, aspirated surd, and glottally affected surd stops, the sonancy of the continuants, and the duration of all the sounds. Comparison with published tracings of Hupa and Kato words will show interesting similarities and differences.

VOWELS.

The original, underived vowels appear to be Italian a, open e, closed or continental i, closed o, and closed u. Besides these a closed ē occurs, perhaps influenced by neighboring closed sounds like y; an open i, short and occurring only in closed syllables; and a neutral ú which seems usually to represent a, but sometimes i. These vowels occur as nasal as well as oral sounds. The nasality is always due to the absorption of n which originally followed the vowel and which reappears when in the word structure a vowel follows, or when the utterance is deliberate. There was no opportunity for a graphic study of vowels except as they are represented in the tracings where they are available for a study of length only.

1 Pliny Earle Goddard, "The Phonology of the Hupa Language." (Univ. of Calif. Publ., Am. Arch. and Ethn., Vol. 5, No. 1, 1907.)
2 L. c., Vol. 11, No. 1, 1912.
3 A key to the representation of the sounds will be found on pp. 5 and 6.
Fig. 1. ya, louse.

Fig. 2. ya, sky.

Fig. 3. ye, house.

Fig. 4. et ūn, caribou.

Fig. 5. L'īze, fly.

Fig. 6. θ'I, again.

Fig. 7. nī θI, tamarack.

Fig. 8. nas θet, I stayed.
Semi-vowels.

The semi-vowels y and w both occur, the former rather frequently, but the latter only under such circumstances as to point to fully sonant g as its origin. This is brought about by the neighborhood of a rounded vowel, ō or ū. Often y has somewhat of a spirant sound especially in its earlier portion. Tracings of intervocalic y show a definite weakening of the vibrations and sometimes a bodily lowering of the line, due no doubt to the constriction of the mouth passage. (Figs. 1–3, 74, 81, 201.)

Nasals.

The most frequently occurring nasal is n, which is found initially, between vowels, and finally (Figs. 7, 25). In the last position it often disappears, resulting in a nasal vowel. In other cases it is preserved, but no reason for these differing results has been found. In many cases the glottal stop follows n written n̄, but perhaps might have been written as consistently n' (Fig. 20). When followed by a palatal stop the nasal takes that position also and has been written ń. In only a few words has m been found. The sonant bilabial stop b is the only one of that series. It is possible that m has become b since if b existed originally one would expect to find also the aspirated and glottally affected surds. Many of the Athapascan dialects have m but not b.

Liquids.

A tongue tip, trilled r is frequently heard especially from certain speakers. It is very curious but certainly true that other sounds may be substituted in every case for this r with entire correctness. The word for meat, is pronounced bet or ber by the same speakers. In a few other words a final t gives place occasionally to r. Some individuals habitually pronounce r when the position is intervocalic where others use d. In the latter case such a transition is not surprising since the d is fully sonant and the trilled r results from several light contacts instead of one firm one (Figs. 16, 53).

Both Petitot and Le Goff write Greek ρ for a sound described as uvular r, “r grassevant.” They employ this to represent a fully sonant palatal sound which is ordinarily completely stopped (g), but in some cases a continuant (g). In the latter circumstance, however, it lacks any decided flapping of the uvula and certainly does not impress the ear as does German or Parisian uvular r.
A lateral liquid, l, is prominent in all positions in the syllable (Figs. 12, 22, 66, 76, 98, 115, 128). It happens that no formative element beginning with it stands at the beginning of words. It shows morphological connection with the surd spirant L.

**Spirants.**

There are three interdental spirants: a sonant written θ, a surd written θ, and a glottally affected surd written θ' (Figs. 4, 6, 7, 8, 41, 45, 80, 89, 105). The first two closely resemble English soft and hard th. The tip of the tongue is placed against the edge of the upper incisors and the air allowed to flow on each side of this contact. These sounds occur where the Pacific and southern languages have z, s, dz, ts, and ts'. It is possible that affricatives are sometimes uttered which should have been written tθ, dθ, and tθ' (Figs. 4, 43, 123, 207) but in only one or two cases was an initial stop strong enough to attract attention although it was looked on as a logical probability.

A series of spirants and affricatives is formed between the front of the tongue and the palate not far back of the teeth. These are very similar to English z and s, but were written even in the same words as j (zh) and c (sh). (Figs. 5, 8, 10, 38, 48, 74, 93). In the texts they have been printed as originally recorded. It was hoped some reason might appear for this variation although it was recognized that they always correspond to dj, j, c, tc, and tc' as they occur in other Athapaskan dialects recorded. It may be that the sounds are really intermediate between z and zh as they exist in English and therefore heard alternately.

Closely connected with the liquid l is the spirant L which is formed at the same place, between the side of the tongue and the molar teeth. It seems to begin with one approximation of the tongue to the teeth followed by a decided vibration of the surface but now bodily movement of the side of the tongue. The sound impresses the ear as decidedly spirant closely akin in that respect to s (Figs. 32, 33, 93, 130). A glottally affected surd l written L' occurs which in some cases at least might be regarded as an affricative, that is as t followed by surd l followed by glottal closure (Figs. 5, 34, 38, 83).

A palatal spirant, x, in which more or less bodily vibration of the uvula takes place occurs (Figs. 51, 52, 56, 174, 178). The vibration of the uvula is plainly evident in the irregular waves shown in several of the figures referred to above. Often, however, this sound was hard to distinguish by ear from h, presumably a glottal spirant, and much confusion occurred in recording it, which has mostly been reproduced in the printed texts. A
sonant spirant in this position has been written $\sigma$, but it seems not to be a definitely independent sound (Figs. 79, 99, 102, 127, 152, 153, 220), and appears to be the result of incomplete contact of the fully sonant palatal stop. In certain words the continuant was always heard while in many words it was only occasionally recorded. In one or two cases an affricative, $\sigma\sigma$, seemed to be present.

That $h$, the glottal spirant, occurs independently of $x$, the palatal spirant, seems certain (Figs. 135, 191, 200). When intervocalic as in other Athapascan languages and English, the tracings often show a sonant which the ear does not differentiate from the surd (Figs. 201, 207). When the glottal spirant occurs after vowels it is written ' since the use of $h$ might be mistaken as modifying the quality of the vowel (Fig. 219).

**STOPS.**

Only the sonant bilabial stop is found in Chipewyan. The tracings obtained show it to be fully sonant, that is, sonant during the closure as is the case in English (Figs. 9, 53, 78, 151). It is surprising, however, that Petitot recorded it sometimes as $p$. This probably was due not to a lack of sonancy but to some other peculiarity.

The dental series has a fully sonant stop, $d$ (Figs. 10, 13, 14). When it is intervocalic it is often replaced by a tongue tip trilled $r$ (Figs. 15, 16) but this seems to be due to dialectic mixture rather than to change or development within the dialect.

The surd of this series, $t$, is very strongly aspirated, much more so than in emphatic English syllables. The average length of the aspiration is .12 seconds, as long as ordinary simple sounds (Figs. 11, 54, 55). The passage
Fig. 9. ce bit', my belly.

Fig. 10. des a ze, small stream.

Fig. 11. tü, water.

Fig. 12. tül, legging.

Fig. 13. dt, chicken.

Fig. 14. der, crane.

Fig. 15. di di, this.

Fig. 16. di ri, this.
is considerably constricted resulting sometimes in a vibration of the tongue (?) which appears in Fig. 18. The glottally affected dental t' is not different from that described for Hupa and Kato and doubtless is made in the same manner with a glottal closure closely following the release. Compare Figs. 57, 85, 121, 129 with a Hupa tracing, Pl. 8, Fig. 6, and Kato Pl. 7, Fig. 7.

In the palatal position there is a fully sonant stop, g (Figs. 80, 108, 123, 193). The contact is light and often not complete, resulting in a continuant ə or, in the neighborhood of ơ or ū a semi-vowel, w (Fig. 198 compared with Fig. 197). Since both Fathers Le Goff and Petitot write p and describe this sound as an uvular r even where it is evidently stopped, some peculiarity of sound was looked for but nothing particularly suggesting such a sound was heard.

A sound evidently originally different is the intermediate palatal stop ġ the sonancy of which begins with the release. (Figs. 19, 22, 235). The surd (k) is strongly aspirated corresponding to t (Figs. 24, 101, 112). The glottally affected surd k' is harsh in sound and quite distinct from the other members of the palatal series. The harshness is undoubtedly due to a vibration of the surface of the back of the tongue, and perhaps of the soft palate also, resulting from the diminished air pressure back of the preceding contact. In Fig. 72 these vibrations are reproduced. With this tracing compare a Hupa tracing.¹

Of the aspirated and glottally affected surds there are labialized varieties written kw (Figs. 20, 69, 248) and k'w (Fig. 117). The w of the former is probably surd; in both cases the sound is probably a simple one and a single character should have been written since the sounds may have been originally independent of the unlabialized stops. It is possible that the intermediate is also labialized (Fig. 96).

The glottal stop ʰ, strong and regular, is found as an important part of certain words and word-parts. In other cases it was sometimes noticed and written and at other times overlooked if in reality it was uttered. It is probably present before every vowel not preceded by other consonants (Fig. 27). It tends to disappear after spirants but is prominent when intervocalic (Figs. 39, 156, 183, 198). A stop coming before the glottal stop becomes glottally affected. At the end of words ending in vowels (Figs. 26, 33, 62, 113) it has sometimes been confused with the aspiration ʰ, since the glottal stop is usually released with a similar aspiration. It appears to follow n (Figs. 20, 43) and other consonants in which case the stops are written with ʰ after them.

¹ L. c., Vol. 5, Pl. 8, Fig. 12.
Fig. 19. ґə, rabbit.

Fig. 20. kwon‘, fire.

Fig. 21. k‘ihe, saskatoon.

Fig. 22. del gai, white.

Fig. 23. k’a, arrow.

Fig. 24. ke tcun l’ool, shoe string.

Fig. 25. en ne ðe kwî, old man.

Fig. 26. k‘ï, birch.
AFFRICATIVES.

By affricatives is meant a stop plus a spirant. The union is usually a permanent one, the sounds being originally associated or derived from a simple sound. Theoretically, there are three members of each series: an intermediate stop followed by a sonant continuant; a surd stop followed by surd continuant; and a surd stop followed by a surd continuant with glottal closure. The dental series is fully represented with dz or dj (Figs. 17, 58, 59), ts or tc (Figs. 24, 61, 62, 63) and ts’ or tc’ (Figs. 65, 66, 67, 68). A complete interdental series might be expected, in fact Father Le Goff writes it. In only a few cases was a stop heard preceding the continuants in this series but the tracings in some instances indicate stops. For tθ examine Figs. 4, 43; dθ results from morphological elements being brought together (Fig. 207), while θ̄i, “again” (Fig. 6) is written by Father Le Goff tθ̄i (tθ̄i). Of the lateral series dl is frequent (Figs. 37, 40) and there seems to be a stop in Figs. 34, 38, 39, and perhaps in every case where l‘ is written. There is, however, no clear example of tl, the sound in all cases appearing to be a spirant not preceded by a definite contact. In one or two cases a palatal stop followed by a sonant continuant was written but there is no illustration of this in the tracings. In no case was kx heard.

Table of Sounds.

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<td>Nasals</td>
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<td>Liquids</td>
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</tbody>
</table>

- Bilabial: b
- Interdental:
- Apical-dental: d t t’ z s dz ts ts’ n r
- Lateral: L dl tl’ l
- Post-palatal: g ĝ k k’ o x gg ŋ
- Velar:
- Glottal:
- Semi-vowels: y, w.

Vowels:

a

i ù o è

Table of Sounds.
The results obtainable from the tracings in regard to duration have been presented in the accompanying table. The number of examples are too few for conclusive results and more than one person should have been used.

Table of Length.

| Length | 2mm | 3mm | 4mm | 5mm | 6mm | 7mm | 8mm | 9mm | 10mm | 11mm | 12mm | 13mm | 14mm | 15mm | Average |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|-------|
| a      | 5   | 9   | 13  | 14  | 3   | 6   | 3   | 3   | 3    | 3    | 3    | 3    | 3    | 3     | 5.6    |
| e      | 2   | 24  | 45  | 24  | 11  | 7   | 2   | 2   | 2    | 2    | 2    | 2    | 2    | 2     | 4.5    |
| i      | 4   | 11  | 5   | 9   | 3   | 3   | 2   | 2   | 2    | 2    | 2    | 2    | 2    | 2     | 6      |
| ₁      | 11  | 8   | 1   |     |     |     |     |     |      |      |      |      |      |       | 3.5    |
| ʊ      | 6   | 5   | 2   | 1   | 1   |     |     |     |      |      |      |      |      |       | 4.4    |
| u      | 2   | 4   | 3   | 3   | 2   | 1   |     |     |      |      |      |      |      |       | 5.5    |
| y      | 1   | 5   | 2   | 1   | 1   |     |     |     |      |      |      |      |      |       | 4.3    |
| w      | 1   |     |     |     |     |     |     |     |      |      |      |      |      |       | 6      |
| n      | 2   | 3   | 2   | 2   | 3   | 1   | 1   | 1   | 1    |      |      |      |      |       | 6      |
| nn     | 1   | 1   | 3   |     |     | 1   |     |     |      |      |      |      |      |       | 5      |
| l      |     | 4   | 2   | 4   | 3   | 3   | 2   |     |      |      |      |      |      |       | 5.8    |
| r      |     | 1   | 1   |     |     |     |     |     |      |      |      |      |      |       | 5      |
| ᵣ      | 1   | 2   | 1   | 1   | 2   | 2   |     |     |      |      |      |      |      |       | 7.7    |
| ᵣ'     | 1   | 2   | 2   | 2   |     |     |     |     |      |      |      |      |      |       | 9      |
| s      |     | 2   | 3   | 1   | 3   |     |     |     |      |      |      |      |      |       | 4.5    |
| s      |     | 1   | 3   | 5   | 3   | 2   | 3   | 1   | 1    |      |      |      |      |       | 8      |
| c      |     | 3   | 1   | 2   |     |     |     |     |      |      |      |      |      |       | 4.5    |
| x      |     | 1   |     |     |     | 2   | 1   |     |      |      |      |      |      |       | 8      |
| h      | 1   | 2   |     |     |     |     |     |     |      |      |      |      |      |       | 3.3    |
| b      |     | 3   | 1   | 1   |     |     |     |     |      |      |      |      |      |       | 6      |
| d      |     | 1   | 3   | 1   | 2   | 4   | 2   | 1   | 2    | 1    |      |      |      |       | 6      |

1 The first line of these gives the period of closure and the second line the portion of the consonant following the release.
to be sure the variations were not individual. The frequency with which a sound occurs with a particular length is of more significance than the average. The vowel e, for example, occurs 45 times with a length of 4 mm. (.08 sec.) which may be considered its normal duration. It seems that nearly all of the sounds are at times given double or triple length but there are too many intermediate lengths to make the matter conclusive. Only in the case of û is length definitely related to quality since the sound does not exceed 5 mm. and averages 3.5 mm.

It is of interest to note that disyllabic words accented on the first syllable have relatively short vowels in the second. For example, dîô ne (Fig. 37) 10: 3, lî ze (Fig. 38) 12: 4, cî ne (Fig. 50) 8: 5, djî ze (Fig. 94) 10: 5. When in such words the accent is on the last syllable the ratio of lengths is reversed: e na (Fig. 73) 5: 10, na gai (Fig. 79) 7: 20, dûn nî (Fig. 88) 3: 11. There are also many disyllabic words with nearly even stress in which the lengths are quite exactly balanced: ya zâ' (Fig. 113) 6: 6, ts'û tcôk' (Fig. 110) 4: 4, gin gal (Fig. 182) 6: 6.

Many of the words of three syllables have the middle vowel considerably the longest, and the accent seems to rest also on this syllable: da dzin ne (Fig. 83) 3.5: 5: 3, bes a ze (Fig. 114) 4.5: 6.5: 4, xai t'a zi (Fig. 124) 5: 10: 4, se ðe ge (Fig. 127) 6: 12: 4. In the greater number of these words it is the syllable of greater importance that is the longest. The greater degree of length may not be the result of stress accent but used in itself to make the syllable emphatic.

**Stress.**

Something resembling the stress accent of English is heard with considerable regularity in Chipewyan. As has been said in the preceding section it rests on the syllable having the greater importance as to the meaning of the word. The word for mouse is dîô'ne (Fig. 37). In many Athapaskan languages the word is monosyllabic and is applied to rodents, e. g. Jicarilla, dîô', prairie dogs. The second syllable is weak as is clearly seen in the tracing. A few words like ena', Cree (Fig. 73) and dûn nî', moose (Fig. 88) are always accented on the final syllable. The latter word may be a verb form with the stem -nî "to make a noise" and have the accent on the stem as is usual in verbs. Many words have two accents as, be ðûn'del ĝai', his skin white (Fig. 131) in which the accent rests on the syllable meaning skin and the stem -ĝai of the adjective, white.

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1 Vol. 8, this series, p. 96, l. 6.
2 P. 146.
The above statement is quite incomplete for the subject of stress is difficult in any case and requires much more observation and analysis than it was possible to give.

**PITCH.**

Father Le Goff credits pitch with the power of differentiating certain words and syllables as to meaning. While he does not indicate variation in pitch by accent marks, he does call attention to such differences in notes. The present e'te'l kkezh (e tet. k'eθ), he shoots, has the voice raised on the final syllable, the stem, while it is lowered in the past where the word is in other respects identical.

No variation of pitch in the syllable itself as in Chinese was observed. Ordinarily, the voice is slightly lowered on the final syllable as the words were spoken in the machine; the ratio being 13:11 or nearly C to A below. In e na', Cree, and dûn ni', moose, however, the voice was held level. We have then in these words a combination of stress, length and maintained pitch coinciding to strengthen the final syllable.

**ASSIMILATION.**

Considerable phonetic adjustment has no doubt taken place which has not been noticed. In many cases it may be difficult to detect changes due to the influence of neighboring sounds. The following examples are quite evident.

A surd spirant makes a following continuant consonant surd.

- na ne θet hwū sa, did you stay? Fig. 206; but, nas θet, I stayed. Fig. 205.
- ne ga, you make, 16, 2; but, was xā, let me make.
- ye te qin, she carried him, 15, 12; but, nū wūs xe, I am going to carry it, 19, 21.
- wa le, it will be, 33, 12; was le, I will be, 33, 18.

The first person singular subjective prefix s also causes l, a modal prefix to disappear.

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1 "Dans l'espace, ce n'est, en effet, ni plus ni moins, que l'accent donne a ces consonnes et le ton accompagnant la prononciation qui déterminent leur signification." Le Goff, p. 23.
2 L. c., p. 321.
3 The numerals after the examples throughout this paper refer to the pages and lines of this volume.
nu was i, let me look, 29, 4, Fig. 196; but, nit. i, you look. Fig. 194.
as i, I did it, 22, 12; but, a nit. i' t'a, did you do it? 22, 12.

Compare na wa sa, I am going across, with nan ni ya, I went across, and
note that the y of the stem -ya has been displaced by -s, the first person
subjective prefix. Similar forms occur in all known Athapascan languages
showing the assimilation to have taken place in the mother language.

**Comparison of Sounds.**

Chipewyan a; Hupa a; Kato a; Jicarilla a; Navajo 1 a.
a di, he spoke; H. a den ne, he said; K. a ne, she said; J. a dn ni na,
he spoke; N. a ni, he says.
dun ni la, person's hand; H. xo la, his hand; K. c la, my hands;
J. bi la, his hands; N. ci la, my hand.

Chipewyan e; Hupa e; Kato e; Jicarilla e; Navajo e.
be de, their horns; K. ù de, its horn; J. bi de go, his horn too; N. de.

Chipewyan e; Hupa e; Kato i; Jicarilla i; Navajo i.
se, I; H. hwe, I; K. ci; J. ci; N. ci.

sen, song; H. hweñ; N. sin.

Chipewyan û; Hupa i; Kato û; Jicarilla i; Navajo i.
θ'un, flesh; H. mit tsi, its meat; K. ü sün, its meat; J. bi tsi, his flesh;
N. a tsi, its flesh.
e tûn ne k'e, their trail; H. tin, trail; J. i ki, road; N. a tin, road.

Chipewyan i; Hupa i; Kato i; Jicarilla i; Navajo i.
be ûi, his head; K. kw si, his head; J. bi tsi, his hair; a tsi, its hair.

Chipewyan ð, û; Hupa ð; Kato û; Jicarilla ð; Navajo ð.
l'ð, grass; H. lo; K. l'ô; J. l'ô, leaves; N. l'ô.

Chipewyan y; Hupa y; Kato y; Jicarilla y; Navajo y.
ya, louse; H. ya; K. ya; J. ya; N. ya.
i ni ya, he came; H. tcin niñ yai; K. tc' nûn yai; J. n ya na, he came.

Chipewyan n or nasal vowel; Hupa n; Kato n; Jicarilla n or nasal vowel;
Navajo n or nasal vowel.

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1 The Navajo words used for purposes of comparison throughout this paper are taken from The Franciscan Fathers, "A Vocabulary of the Navaho Language," vols. 1 and 2, St. Michaels, Arizona, 1912; and from "Dine Bizad, A Handbook for Beginners in the Study of the Navaho Language." (Published by the Mission to the Navaho Indians, Tolchaco, Arizona). The spelling of the words has been uniformly changed to correspond to the system employed in this publication.
Ground; H. nin; K. ne; N. nit.
yet ni, he told; H. a den ne, he said; K. ya ní, they said; J. a yíl ni, he told; N. a ni, he is saying.
li, dog; H. liñ, dog; J. lì; N. lì, horse.
ne ti, he lay; H. tcín nes ten; K. nes tin, it is lying; J. sì kì e, where he lay; N., si ti, he is lying.

Chipewyan 1; Kato 1; Hupa 1; Jicarilla 1; Navajo 1.
a yin la, he made; H. a tcín lau, he did it; K. kwai la', he did it; J. tcín la na, he made; N. a yì la, he made.

Chipewyan 0; Hupa 0; Kato 0; Jicarilla 0; Navajo 0.

1 The common word for grizzly bear among the California Athapascan is cac but both Huya and Kato happen to have descriptive names.
2 The sound is probably tL' in all these words.
Chipewyan x; Hupa x; Kato k; Jicarilla x; Navajo x.
xai, winter; H. xai; K. kai; J. xai; N. xai'.
xai ya, he went up; H. xa is yai, he went up; K. kas ya, he came up;
J. xa se ya, I went up; N. xas lós, I lead up a hill.

Chipewyan b; Hupa m; Kato b; Jicarilla b; Navajo b.
bes, knife; J. bec hi, knife; N. bec.
del ba, gray; H. dil mai; K. dfil bai; J. Li ba go, brown; N. La ba, gray.
del ba, his father; H. mit ta, its father; K. buntc, his nose; J. bi ka e,
her father; N. bi je i, his father.

Chipewyan d; Hupa d; Kato d; Jicarilla d; Navajo d.
di oí, four; H. diink; J. di i; N. di.
θe dai, he sat; H. sit dai, he lived; K. si dai, I sit; J. sit da, it sits;
N. si da, he sits.

Chipewyan t; Hupa t; Kato t; Jicarilla k; Navajo t.
τū, water, H. τō, ocean; K. τō; J. kū; N. tō.
ne τi, he lay; H. tæn nes ten, he lay; K. nes τiŋ, it is lying; J. si ki e,
where he lay; N. si τi, he is lying.

Chipewyan t'; Hupa t (same as t'); K. t'; Jicarilla t'; Navajo t'.
t'es, coal; H. teuw; K. t'ec; J. t'ec; N. t'ec.
ni t'uk', he flew there; K. nûn t'aτo, it flew; J. nac t'ai, I fly; N. yi t'a,
it is flying.

Chipewyan dl; Hupa l; Kato l; Jicarilla dl; Navajo dl.
dlô ne, mouse; H. Lôn, mouse; K. Lôn, squirrel; J. dlô', prairie dog;
N. dlô', prairie dog.
dlû we de, laughing; J. i dlô na, someone laughed; N. yi dlô, he is
laughing.

Chipewyan dz, dj; Hupa dj; Kato dj; Jicarilla dj; Navajo dj.
dzî ne, day; H. la djes, every day; K. djîn; J. djîn e; N. djî, day.
dzî* ye, heart; H. nit djê, your mind; K. n djî*, your heart; J. bî dje i,
his heart; N. nî dje i, your heart.

Chipewyan tc, ts; Hupa ky, tcw; Kato tc; Jicarilla tc; Navajo tc.
se tsû ne, my grandmother; H. mite tcwô, its grandmother; K. c tcô,
my grandmother; J. bî tcô, their grandmother; N. bî tcô', his
grandmother.
θel tcûθ, cloth lies there; H. si kyôs; K. nà tcôs, she put it; J.
da sit tsôs gô, they spread; N. ca nîl tsôs, give me (cloth).
be tcî le, his younger brother; H. mik kil, her younger brother; N.
bî tsîl i, his younger brother.
Chipewyan tc'; Hupa k (k'); Kato tc'; Jicarilla tc'; Navajo tc'.
tc' ai le, frog. H. tewal; J. tc'ai le, N. tc'ail, frog.
niŁ ts'i, it blew; H. ye kyū wes tce, the wind blew in; K. wa nůn tci-
bůn, it will blow through; J. niŁ tce'i, whirlwind; N. niŁ tce'i, wind.

Chipewyan g; Hupa w; Kato g, g; Jicarilla g, y; Navajo g, g, y.
důn ne ga, human hair (of the body); K. c ga', my hair; J. da ga, just
hair; N. a ga, hair, wool.
ye geL, she carried on her back; H. tce wel, he was carrying; K. g'uc geL,
I will carry; J. ya yeL go, carrying; N. yō yēL, he is carrying.

Chipewyan g; Hupa g; Kato g; Jicarilla g; Navajo g.¹
gā, rabbit; J. ga, rabbit; N. ga', rabbit.
del gai, white; H. Lūk kai, white; K. ya'L gai ūn gi, they are white;
J. Lī gai n, white one; N. la gai, white.

Chipewyan k; Hupa x; Kato k; Jicarilla k, x; Navajo k, x.
be ke, his foot; H. xō xa, his tracks; K. nō kwe', your feet; J. bi ke i,
their feet; N. bī ke', his feet.
yeL kai, day; H. ye iL xa, mornings; K. dō yiL kai, not day; J. yiL kai-
gō, next day; N. xa yiL kā, dawn.

Chipewyan kw; Hupa x; Kato kw; Jicarilla kw, x; Navajo k.
kwōn', kōn', fire; H. xōn; K. kwōn'; J. kō'; N. kō'.
e kwa a di, he said the same; H. xa ĩl le, do that; K. kwa' la, you did;
J. xait, 'i ne gō, doing this way.

Chipewyan k'; Hupa k (k'); Kato k'; Jicarilla k'; Navajo k'.
k'ai, willow; H. kai, hazel; K. k'ai', hazel; J. k'ai, willow; N. k'ai,
willow.
k'a, arrow; K. k'a'; Jicarilla k'a; N. k'a'.
xō del k'ā, he made a fire; H. wil kan nei, a fire burned; K. ūL k'aň,
make a fire; J. n den n k'a na, it burned so far; N. a dī k'ān,
burned.

It is not to be assumed that the sounds represented in the various
languages by the same characters are identically alike. The differences
are of the evasive sort which cannot be expressed with printed characters,
not differences in position of articulation, sonantry or aspiration.

¹ Hupa, Kato, Jicarilla, and probably Navajo have the intermediate (g) which should
have been distinguished in writing from full sonant g.
MORPHOLOGY.

The structure of the Athapaskan languages seems remarkably uniform. Since a rather thorough discussion has been given of the Hupa and Kato, it does not seem necessary to repeat at length the general characteristics of the Chipewyan. The verbs and qualifying adjectives stand off from the other parts of speech since in most instances they are composed of a stem and many prefixes and suffixes by the changing of which inflection is produced varying their meanings in many respects. The nouns and pronouns receive suffixes most of which express position or the direction of motion. These are comparable to case endings, but usually have considerable phonetic distinctness.

There are a number of clear cases of noun incorporation when the object is included between prefixes of the verb which cannot be used or understood independently of the verb. In other cases the object noun stands first in the verb and only the weak form of the verb indicates that the noun is considered a part of it. An example is a de ne hel nî, he spoke to the man, 11, 14 in which de ne, man, is incorporated. The preceding a is meaningless if separated from the remainder of the verb. In line 11 of the same page de ne hel de li, people eat, is probably a single word "peoples-eater" but there is no means of being certain. The syllable L'û in na L'û ye te nûk t'a, she lowered him with a rope, 11, 4 seems to be connected with L'ûl, rope; if so it is an example of the instrument being incorporated as a noun.

Nouns.

The nouns of Chipewyan fall into about the same classes that appear in the case of the other Athapaskan languages which have been systematically studied. There are many simple nouns, generally monosyllabic, with specific non-descriptive application; similar nouns not used without possessive prefixes; and nouns of descriptive meaning qualified by adjectives and verbal suffixes. These suffixes may be conjugated.

The names of classes of people alone may take plural endings. There are no syntactical case endings, but postpositions often have the force of locatives, etc.
SIMPLE NOUNS.

There appear in each of the Athapascan languages a considerable number of elemental nouns which seem to have been the original type of substantives.

ai’ (aix), snowshoes. 16, 2.
el (‘el), pine, spruce. 16, 1. Kato, al, firewood.
’1’, coat. (Fig. 27.) Jicarilla, ‘e’.
ya, sky. (Figs. 2, 28.) Kato, ya’; Jicarilla, ya’.
ya’, louse. 24, 3. (Fig. 1.) Hupa, ya; Kato, ya‘; Jicarilla, ya‘.
yaθ, snow. 10, 13. (Fig. 29.) Kato, yas; Navajo, yas; Jicarilla, zas.
ye’ (ye‘), house, camp. 8, 1. (Figs. 3, 31.) Kato, ye.
yū, yū we, clothes personal equipment. 23, 15; 44, 4. Jicarilla, yō, beads.
mil, one thousand (French).
nī’, ground. 19, 9. (Fig. 30.) Hupa, nin; Kato, ne‘; Jicarilla, nī.
nū, nū we, island. 22, 4.
θa’, martin. (Fig. 46.)
θīθ, θūθ, sack. 27, 12. Jicarilla, i ziz.
θai, sand. (Fig. 41.) Kato, sai; Jicarilla, sai.
θe’, θ’e, pipe.
θe, stone. 12, 20. (Fig. 42.) Hupa, tse; Kato, se; Jicarilla, tse.
θ’un’, star. (Fig. 43.) Navajo, sō‘.
θūnθ, spear. 28, 7.
θ’al, moss.
θ’al, awl. 19, 12.
θ’un, θ’en, bone. 8, 19. (Fig. 44.) Kato, ts’un.
sa’, sun, moon. (Fig. 47.) Cf. Hupa, hwa; Kato, ca; Jicarilla, ca;
Navajo, ca.
sas, bear. 32, 18. (Fig. 48.) Jicarilla, cac.
sen, cen, cen‘, song. 32, 2; 31,11; 26,4. Hupa, hwiñ, song; Navajo,
sin, biyin.
sek’, spit. (Fig. 49.) Kato, cek’.
ceθ, hill. 28, 16. (Fig. 116.)
cōs, cūs, sweat house, 31, 11.
Les, grease, 7, 7. (Fig. 32.)
Lī, Līn, Līn k’e, dog. 44, 11; 38, 13. Hupa, Līn; Jicarilla, Lī, horse.
Lū‘, white fish. (Fig. 33.) Hupa, Lōk; Kato, Lōk‘; Jicarilla, Lō ge.
Fig. 27. 't', coat.
Fig. 28. ya, sky.
Fig. 29. yaθ, snow.
Fig. 30. ni', earth.

Fig. 31. ye', house.
Fig. 32. les, grease.
Fig. 33. lū', whitefish.
Fig. 34. l'ō', grass.

Fig. 35. lū we, fish.
Fig. 36. lū k'e', spring.
Fig. 37. dlō ne, mouse.

Fig. 38. l'īze, a fly.
Fig. 39. l'a 't', leggings.
Fig. 40. dlī e, squirrel.
Lūs, spoon.
L'el, firedrill. 13, 17. Jicarilla, L'el.
L'ö', grass. (Fig. 34.) Hupa, Lö; Kato, Lō'; Jicarilla, L'ö, leaves.
L'ök', hay. 13, 13.
L'ūl, L'u le, rope. 9, 9. Hupa, Löl; Jicarilla, Löl.
xa, goose. (Fig. 51.) Kato, ka'.
xaï, spruce roots. (Fig. 52.) Hupa, xai.
xaï, xaï e, winter. (Fig. 56.) Hupa, xai; Kato, kai; Jicarilla, xaï.
xeï, load. 21, 12. Hupa, xûl.
bë, knife. 21, 3. Jicarilla, bëc.
bët, bët', ber, meat. 7, 6; 33, 18. (Fig. 53.)
daït', mole.
dûl, de le, blood. 21, 6; 13, 3. Jicarilla, dûl.
del, crane. (Fig. 14.) Kato, del; Jicarilla, del.
des, stream, creek, river. 12, 6.
dït', chickens, any bird raising broods. 7, 10. (Fig. 13.) Jicarilla, dït',
quail.
dlône, dliûne, mouse. 10, 3. (Fig. 37.) Hupa, Lôn; Kato, Lôn,
rodent; Jicarilla, dlô', prairie dog.
dlôk', dlô k'e, laugh. 45, 17; 23, 9. Navajo, dlo.
dzâï, mud by lake. (Fig. 58.) Kato, djân, mud.
dzen', dzen, muskrat. 34, 1. (Fig. 59.)
dzûne, days. 13, 12. Kato, djûn; Jicarilla, djûn e.
djeô, fish hook. 15, 18.
teô, night. 32, 15.
tû, tû we, water, lake. 25, 8. (Fig. 11.) Hupa, tû; Kato, tô; Jicarilla,
kû.
tûn, ice. (Fig. 55.) Navajo, tin.
tûl, stocking, legging. (Fig. 12.)
tsa', tsa', beaver. 12, 15; 34, 1. (Fig. 61.) Jicarilla, tsa'.
tcâ', tc'â', rain. (Fig. 62.)
tseï, ax. Navajo, tse niî.
tsès, pus. (Fig. 64.) Navajo, xis.
tsî', red earth, red paint. 27, 12. Navajo, tcî', red clay.
tsî, tsîn', odor, 11, 17; 11, 19.
tsâ', pin. 21, 18.
tsî', tc'i ye, canoe, boat. 24, 9. (Fig. 67.) Kato, tc'i.
tsî', porcupine. (Fig. 68.)
tc'a, dance hat. (Fig. 65.) Navajo, tc'a', hat; Jicarilla, tc'aî hi, war-
bonnet.
Fig. 57. t'ec, coal.
Fig. 58. dzā, mud.
Fig. 59. dzen', muskrat.
Fig. 60. djīye, berries.

Fig. 61. tsa, beaver.
Fig. 62. tcā', rain.
Fig. 63. tceθ, ducks.
Fig. 64. ts'es, pus.

Fig. 65. tc'a, dance hat.
Fig. 66. tc'ai le, frog.
Fig. 67. ts'i, canoe.
Fig. 68. ts'i, porcupine.

Fig. 69. kwōn', fire.
Fig. 70. k'ūc, poplar.
Fig. 71. k'ai, willow.
Fig. 72. k'a, arrow.
 tc'ai le, frog.  (Fig. 66.)  Hupa, tcwal; Jicarilla, tc'ai de.
teeô, ducks.  (Fig. 63.)
t'es, coal.  8, 2.  (Fig. 57.)  Hupa, t'euw; Kato, t'ec; Jicarilla, t'ec.
ga, rabbit.  18, 12.  (Fig. 19.)  Jicarilla, ga.
gû, bug, firefly.  Hupa, qô; Kato, qô.
kwön', kôn', fire, firewood.  27, 10; 26, 4.  (Figs. 20, 69.)  Hupa, xôñ;
Kato, kwön'; Jicarilla, kô'.
k'a, arrow, 7, 10.  (Figs. 23, 72.)  Kato, k'a'; Jicarilla, k'a.
k'ai, willow.  29, 14.  (Fig. 71.)  Kato, k'ai', hazel; Jicarilla, k'ai,
willow.
k'i', birch.  (Fig. 26.)
k'úc, poplar.  (Fig. 70.)  Kato, k'úc, alder.

UNANALYZED NOUNS.

There are a considerable number of nouns which appear to be derivatives
or composites, but which seem to have lost their descriptive meanings.

e na', Cree, enemy.  23, 12.  (Fig. 73.)
el dje zi, el zez i, trap.  43, 16; 44, 10
et ðûn, e ðûn, caribou.  14,7.  (Figs. 4, 132.)
e de', spear for chiseling for beaver.  12, 18.
et s'is, pemmican.  7, 7.
i ye se, bird.  (Fig. 74.)
i'l tî, bow.  (Fig. 75.)  Cf. Jicarilla, il ki'i, bow; Navajo, al tî'.
ûl dai ye, jackfish.  31, 5.  (Fig. 76.)
ya ðûn, ice, frozen lake.  18, 2.
ya tû e, deer.  (Fig. 77.)
na bi ye, otter.  26, 7.  (Fig. 78.)
na gai, wolverine.  (Fig. 79.)
na gi ðe, fox.  43, 18 (Fig. 80.)
nîl ts'i, wind.  43, 5.  (Fig. 82.)
nî ðî, tamarack, (Fig. 7.)
nû we, island.  22, 4.
nû ni ye, wolf.  7, 6.  (Fig. 81.)
l'i ze, fly.  (Figs. 5, 38.)
lû k'ê', Spring.  (Fig. 36.)
l'a', leggings.  (Fig. 39.)
vôl gûs i, gopher (?).  (Fig. 123.)
ô'i hi, fish hawk.  (Fig. 45.)
hô kâ', narrows of a lake.  31, 15.
xai t'a zi, Fall.  (Fig. 124.)
Fig. 73. ena, Cree.

Fig. 74. iyese, bird.

Fig. 75. iti, bow.

Fig. 76. ül dai ye, jackfish.

Fig. 77. yanüe, deer.

Fig. 78. na bi ye, otter.

Fig. 79. na gai, wolverine.

Fig. 80. na gi œe, fox.

Fig. 81. nü ni ye, wolf.

Fig. 82. nil ts'i wind.

Fig. 83. xō l'ic, clay.

Fig. 84. da dzin ne, loon.
xō L'ic, clay. (Fig. 83.)
ban lai’, button.
be ga le, string fastening of garment. 29, 6.
da dzin ne, da zin ne, loon. (Fig. 84.)
da tsā, crow. (Fig. 86.)
da t’eθ, black goose. (Fig. 85.)
de’ ne, man, Athapascan speaking person. 31, 10. (Fig. 87.)
de ni’, de ni yī, dūn nī, moose. 9, 13. (Fig. 88.)
de  의원, salt. (Fig. 89.)
de ts’i yī, female. 9, 14.
dē tūn, wood, tree, yard or mile. 35, 3.
dūn ne (same as de’ne above). 14, 13. (Fig. 90.)
dlē zi, grizzly bear. (Fig. 92.)
dli ye, squirrel. 23, 19. (Fig. 40.)
dje zīl, elk. (Fig. 93.)
djī e, djī ye, 36, 3, 11. (Figs. 17, 60.)
djī ze, magpie. 17, 14. (Fig. 94.)
tel k’ai le, weasel. 10, 5. (Fig. 91.)
tūn là, road.
tsan tsa ne, tsa tsa ne, metal, iron. 20, 8.
tci ze, lynx. 43, 16. (Fig. 95.)
gi 诣, grasshopper.
ga kwōs, ga gwōs, ka kwōs, swans. 24, 6, 7. (Fig. 96.)
kwōn k’e, deserted campsite. 15, 7. Jicarilla, kōnc k’e ye, camp site.
k’es le ze, ashes. 22, 2. (Fig. 243.)
k’i he, saskatoon (a shrub bearing berries). (Fig. 21.)

POSSESSIVE PREFIXES.

The following prefixes are used with nouns to indicate possession.
e-, indefinite; used of detached parts of the body.
e bi ye, in a stomach; used as a cooking vessel. 19, 20.
e ʤet’, liver. (Fig. 125.)
e tūn ne, their trail; referring to various animals, 19, 13.
e ts’i ye, intestines; removed from the body. 9, 8.
cf. i t’a, leaves.

et-, reciprocal.
et. tci le ke, brothers (of each other). 34, 1.

e di ni, reflexive; always used of the logical subject.
e di ni ye, his nostrils. 21, 5.
e de kōθ, his breast, 27, 6.
Fig. 85.  da t'eθ, black goose.

Fig. 86.  da tsā, crow.

Fig. 87.  de ne, people.

Fig. 88.  dûn nt, moose.

Fig. 89.  de ɗai, salt.

Fig. 90.  dûn ne, people.

Fig. 91.  tel k'ai ze, weasel.

Fig. 92.  dlē ɗi, grizzly bear.

Fig. 93.  dje zīl, elk.

Fig. 94.  djī ze, magpie.

Fig. 95.  tĉi ze, lynx.

Fig. 96.  ga gwōs, swan.
ye-, third person; seems to be used to distinguish one of two or more persons, or animals, the other being referred to by be-

ye ǝi, his head. 24, 2.

ye ǝǝθ, his belt. 16, 19.

ne-, second person singular.

ne tce’, your tail. 34, 3.

ne ǝi’, your body. 33, 4.

nō x-, first person dual and plural.

nō xǝ, our mother.

nō’ x-, second person dual and plural.

nō’ xǝ, your mother.

nō hî ǝi ye, your nostrils.

se-, first person singular.

se ǝe ge, my throat. 31, 3. (Fig. 127.)

se ǝzi’ e, my heart.

ce ǝi’ t, my belly. (Fig. 9.)

sî ǝi ye, my nostrils.

be-, third person; the more commonly used form. See ye- above.

be ǝe, their mouths.

be ǝǝθ, their hides. 10, 21.

be ǝun, his skin. (Fig. 131.)

Nouns with prefixes.

The names of parts of the body and articles of intimate possession are not used without a possessive prefix 1 or a preceding noun to which they are suffixed.

-a ye, snowshoes; see ai’ above.

ce ‘a ye, my snowshoes. 16, 6. (Fig. 245.)

be ‘a ye, his snowshoes. 16, 10.

-wū, teeth.

dǝn ne wū’, person’s teeth. (Fig. 97.)


-na ga, -na gai, -na ge, eye.

ye na ga, her eyes. 18, 17.

be na ge, his eyes. 33, 14.

dǝn ne na gai, person’s eye.

Cf. Hupa, xǝn na, his eyes.

1 A list of the prefixes of possession are given on p. 96.
-yū e, clothes; see yū above.
  be yū e, his clothes.  16, 10.
  be i ye, her clothes.  20, 9.

-ni ye, nostrils.
  si ni ye, my nostrils.
  Cf. Jicarilla, gō ni ye, his nostrils.

-ni ye, mind.
  bi ni ye, his mind.  45, 3.
  Cf. Jicarilla, bi ni, his mind.

-n tsī, nose.
  bi tsī, its nose.  43, 10.
  dūn ne tsī, person's nose.  (Fig. 103.)
  Cf. Hupa, xōn tsīw, his nose; Kato, bānte, his nose.

-lü we, muscle; probably particular ones.
  se lü we, my leg muscle.
  bi tce'n e lü we, his arm muscle.  25, 10.

-la, hand.
  dūn ni la, person's hand.  (Fig. 98.)
  Cf. Hupa, a dil la, her hand; Kato, ū la', their hands; Jicarilla,
  bi la i, their hands.

-L' a, hip, tail.
  se L'a, my tail; (said of fish).  31, 6.
  se L'a thün, my hip.
  Cf. Kato, cit La, my back; Jicarilla bi L'a ye, his hip.

-L' a, with -ke or -la means palm of hand or sole of foot.
  be ke L'a, his soles.  32, 12.
  bin L'a ge, in his hand.  38, 17.

-zī', body, trunk.
  ne zī', your body.  33, 4.
  Cf. Navajo, a ji' i, its body.

-zī', name.
  bi zī', his name.  32, 5.
  Cf. Jicarilla, ci ji, my name.

-∅a, -∅e, mouth.
  dūn ne ∅a, person's mouth.  (Fig. 100.)
  ba' ∅ai', his mother's mouth.  37, 16.
be òe, in their mouths. 22, 2.

Cf. Hupa, mis sa, its mouth; Jicarilla, bì za, his mouth.

-òe ge, throat.
  se òe ge, my throat. 31, 3 (Fig. 127).
  be òe ge, his throat. 18, 12.
  Cf. Navajo, a za' gì, its throat.

òet', liver.
  e òet', liver.
  Cf. Jicarilla, gō zì', his liver; Navajo, nì zìt, your liver.

-òû, hide, skin.
  de nì òû, moose hide. 10, 22 (Fig. 118).
  dûn ne òû, person's skin. (Fig. 105.)
  be òû, their hides. 10, 21.
  Cf. Hupa, sits, skin, bark; Kato, ô sûts, hides.

-òi, -t òi, head.
  ye òi, his head. 24, 2.
  set òi', my head. 27, 20.
  be òi, its head. 17, 13.
  Cf. Kato, ô sì', its head; Jicarilla, yì tsì i, his hair.

-òû', -tòû, tongues.
  et òûn òû', caribou tongues. 16, 19.
  dûn ne tòû, person's tongue. (Fig. 107.)
  Cf. Kato, ô sò', its tongue; Navajo, a tsò, its tongue.

-òûn', skin; used of living people or animals.
  dûn ne òûn', person's skin.
  be òûn del gài, his skin white; white man. (Fig. 131.)

-òûn', flesh.
  dûn ne òûn', human flesh.
  Cf. Hupa, mit tsìn, its meat; Kato, ü sùn', its meat; Jicarilla, bì tsì, his flesh; Navajo, a tsì, its flesh.

-òû, belt.
  ye òû, his belt. 16, 19.
  Cf. Jicarilla, sis, belt; Navajo, sis, belt.

-ótûn, òtûn ne, bone, leg.
  de ne òtûn ne, human bones. 11, 11.
  dûn ne òtûn ne, person's leg.
  Cf. Hupa, kit tsìn, something's bones; Kato, ô tsìn ne, their legs; Jicarilla, bì tsì' nì, his bones; Navajo bits'ìn, his bone.
-θ'ûθ, feathers; used of the soft feathers.
    se θ'ûθ e, my feathers.
    Cf. Navajo, a ts'ös, feathers; Jicarilla, í tsanl ts'ös, downy feathers.

-bit', -bet', belly, abdomen, stomach.
    ce bit', my belly. (Fig. 9.)
    dûn ne bit', person's belly.
    be bî ye, her belly. 31, 9.
    e bî ye, a stomach used for cooking. 19, 20.
    Cf. Hupa, xō mit, her belly; Kato, nō' bût', your bellies; Jicarilla, 
gō bî, his belly; Navajo, a bid, its belly.

-da, lips, beaks of birds.
    dûn nê da ga, person's beard.
    Cf. Hupa, xōt da, his mouth; Kato, ō da*, their mouths; Jicarilla, 
ci da í, my bill; Navajo, a da*, its lips.

de, horn.
    be de, their horns. 19, 16.
    Cf. Kato, ō de*, its horn; Jicarilla, bî de gō, its horn too.

de le, blood; cf. dûl, blood, above.
    be de le, his blood. 26, 15.
    Cf. Jicarilla, gō dîl e, his blood; Navajo, nî dîl, your blood.

dzĩ*e, heart.
    se dzĩ*e, my heart.
    e na dzĩ*ye, Crees' hearts. 23, 20.
    e dzĩ e dî ōe, lungs.
    Cf. Kato, n dji, your heart; Jicarilla, gō dje*, his heart; Navajo, 
nî dje í, your heart.

djis e, mittens.
    be djis e, her mitten. 14, 9.
    Cf. Navajo, a la djeíc, glove.

dzung ga, ear.
    dûn ne dzung ga, person's ear. (Fig. 108.)
    Cf. Kato, ū tc' ge*, its ear; Jicarilla, gō dja*, his ear; Navajo, a dja*, 
    its ear.

tûn ne, road; trail, with possessive only, see tûn lû, road, above.
    de ne tûn ne, person's trail.
    e tûn ne, animal's trail. 19, 13.
    Cf. Hupa, tin, trail; Kato, tûn nî, trail; Jicarilla, i kî l, trail;
    Navajo, a tin.
-tsa kwót, knee.
    se tsa kwót, my knee.
    Cf. Kato, c qót', my knee; Jicarilla, gō gō, his knee; Navajo, bō god, his knee.

-tce', tail.
    se tce, my tail.  34, 8.
    ne tce', your tail.  34, 3.
    Cf. Hupa, mik ke, its tail; Kato, ō tcì', its tail; Jicarilla, bī tse, its tail; Navajo, a tse', its tail.

-tcún ne, -n tcún ne, rump, hips.
    bī tcún ne la ye, his rump.  32, 13.
    bìn tcún ne, his rump.  32, 10.

-ts'e de, blanket.
    ye ts'e de, his blanket.  23, 13.
    ne ts'e de, your blanket.  23, 6.
    be ts'e de, his blanket.  23, 2.

-ts'i ye, intestines.
    e ts'i ye, intestines.  9, 8.
    Cf. Kato, ō dji k'e', small intestines; Navajo, nī tc'i*, your intestines.

-ts'ùn ne, wings.
    be ts'ùn ne, their wings.  13, 20.

-tca ne, intestines.
    e tca ne, intestines.

-tcùθ, with ke means dewclaw.
    e ke tcùθ, dewclaw.  9, 3.

-ts'á le, fingers; used to refer to them individually.
    ḏūn ne ts'á le, person's fingers.

-tc'en ne, arm.
    bī tc'en ne, his arm.  25, 10.
    ḏūn ne tcún ne, person's arm, from shoulder down. (Fig. 106.)

-ts'ús e, kidney.
    e ts'ús e, kidney.
    e t sūz e, kidney.  21, 18.

-t'a, crown of head when following -θi.
    ye θi t'a, crown of his head.  37, 8.
    Cf. Kato, kw si' da, their heads; Jicarilla, gō tsī t'a', crown of his head; Navajo, a tsī t'a, crown of head.
-t’a’e, wings, wing or tail feathers.
  se t’a’e, my wings, 12, 5.
  be t’a’e, his wings, 12, 13.
  Cf. Kato, t’a‘, feather; Jicarilla, ci t’a hi, my wings; Navajo, a t’a‘, wing.

-t’á, back.
  ye t’a zi, at his back, 45, 16.
  se t’a ze, at my back.
  de ne t’a ze, person’s back.

-t’ā, leaves.
  ō t’ā, leaves.
  Cf. Hupa, kit tūn, maple; Navajo, a t’ā, leaf; Jicarilla, i t’ā i, its leaves.

-t’ōk, nest.
  e t’ōk, the nest, 12, 13.
  be t’ōk’, their nest, 13, 12; 30, 17.
  Cf. Navajo, a t’ō’, nest.

-ga, hair; with -ō means hair of head, with -da means beard.
  dūn ne ga, person’s body hair.
  se ōl ga, my hair.
  de ne ōl ga, human hair, 10, 12. (Fig. 102.)
  dūn ne da ga, person’s beard.
  Cf. Kato, c ga‘, my hair; Jicarilla, i ga’, body hair; Navajo, a ga, hair, wool.

-gūn, with -la or -ke means finger or toe nail.
  dūn ne la gūn, person’s fingernail. (Fig. 99.)
  Jicarilla, gō lac gan, finger nail; Navajo, ci lac gan, my finger nail.

-gal, string, thong for fastening garment.
  be ga le, its string, 29, 6.

-gūz ze, hoofs, with -ke.
  e kai gūz ze, hoofs, 15, 10.

-ke, feet.
  e ke, feet, 14, 15.
  be ke, his feet, 32, 9.
  de ne ke, man’s feet, 21, 13 (Fig. 101).
  Cf. Kato, no kwe‘, your feet; Jicarilla, gō ke‘, his foot; Navajo, ci ke‘, my foot‘.
-ke, moccasin.
  ye ke, his moccasins.
  be ke', his moccasins.  27, 11.
  Cf. Jicarilla, bī ke i, their moccasins; Navajo, ke'.

-ke ge, track of person or animal.
  ye ke ge, his track.  16, 9.  (Fig. 192.)
  be ke ge, his track.  45, 7.
  de ne ke ge, people's track.  27, 9.
  Cf. Hupa, xō xai, his track; Kato, kwe', track; Jicarilla, bī ke',
  their tracks.

-kīn, house.
  e kīn, house, of beaver.  44, 1.
  Cf. Jicarilla, kī, house; Navajo, kin, house.

-kōθ, breast.
  e de kōθ, his breast.  27, 6.

-k′a e, arrow; cf. k′a, arrow above.
  be k′a e, his arrow.

Terms of Relationship.

-ā, -an, mother.
  nā, your mother.
  nō xā, our mother.
  bā', his mother.  11, 16.
  ban ka, to his mother.  36, 13.
  e ne, my mother (not vocative).  11, 15.
  e ne, mother, (vocative).  8, 4.
  Cf. Kato, 6 nān, mother; Jicarilla, bī nī, his mother; Navajo,
  ba ma, his mother.

-ō na ge, older brother.
  bō na ge, his older brother.  34, 7.
  sū nūg ga, my older brother.
  Cf. Kato, cō na, my brother; Jicarilla, ci nā′ a, my elder brother;
  Navajo, bī nai, his older brother.

-ū na gi, -ū na ga, grandson.
  sū na gi, my grandson.  22, 6.
  sū na ga ya ze, my small grandson.  16, 13.
-n ye zi, -n ye ze, son, said by the mother.
   sin ye zi, my son.  38, 8.
   bin ye ze, her son.  38, 10.
   Cf. Jicarilla, bi ja je, her son; Navajo, bi yaj, her son.

-ya ze, child, young of.
   be ya ze, his child.  12, 2.
   Cf. Kato, c yacte, my little ones.

-te kwí, uncle, maternal.
   be 'e kwí, his uncles.  17, 20.
   ne 'e kwí yi', your uncles.  15, 1.

-li e, -li ye, -li 'e, daughter.
   be li e, his daughter.  40, 10.
   be li ye ke' e, his daughters.  38, 19.

-tó t'i ne, relatives.
   ne tó t'i ne, your relative.  26, 1.
   se tó t'i ne, my relatives.  14, 2.
   be xő t'i ne, his relatives.  12, 14.

-s ke ne, children, family.
   bes ke ne, his children, his family.  27, 9; 28, 1.

-dún ne, husband; cf. dún ne, man.
   be dún ne, her husband.  40, 10.

-ta, father.
   be ta, his father.  12, 2.
   se ta, my father, 11, 15.
   Cf. Hupa, nō ta, our father; Kato, c ta', my father; Jicarilla,
   bi ka e, his father.

-tsí ye, grandfather.
   se tsí ye, my grandfather.  22, 13.
   be tsí ye, his grandfather.
   Cf. Kato, s tc' gi, my grandfather;

-tsū ne, -tsō ne, grandmother, probably maternal.
   se tsū ne, my grandmother.  15, 3.
   be tsō ne, his grandmother.  14, 7.
   Cf. Hupa, mite tcwō, its grandmother; Kato, c tcō, my grand-
   mother; Jicarilla, bi tcō, their grandmother; Navajo, bi tcō',
   his grandmother.

-tsū', mother-in-law,
   be tsū', his mother-in-law.  11, 1.
-ts’e ya ne, wife.
   be ts’e ya ne, his wife.  27, 13.

-ts’e de ni, friend.
   se ts’e de ni, my friend.  24, 12.
   be ts’e de ni, his friends.  25, 5.

-tca ya ze, niece.
   se tca ya ze, my niece.  29, 22.

-tce le, -tcî le, younger brother.
   eL tcî le ke, brothers.  34, 1.
   be tce le, his brother.  32, 17.
   be tcî le kwî e, his servants.  40, 5.
   Cf. Hupa, xoi kil, his younger brother; Kato, n tcél, your younger
   brother; Navajo, bî tsîl î, his younger brother.

-tθô ye, -tθû ye, -t ðû yi', grandson, my daughter’s child.
   set ðû yi', my grandson.  13, 14.
   set ðû ye, my grandchild.  13, 6.
   Cf. Hupa, hwît tsoi, my grandchild; Jicarilla, sit tsû yen, my
   grandchild; Navajo, bî tsoi, his grandchild.

-ga kô ze, friend, one to whom a wife has been given.
   be ga kô ze, his friend.  26, 17.

-k’î he, sister.
   bî k’î ke, his sisters.  27, 10.

NOUNS WITH SUFFIXES.

There are a few entirely dependent noun-forming suffixes which are
not traceable to other parts of speech. The most frequently occurring is
-kwî, -ke, used in the formation of divisions of human beings; first when
the classification is based on age or sex, and second, when persons are
grouped as relatives of some individual of the same degree.

   en ne ðô kwî, old man.  38, 18.  (Fig. 25.)
   cinL te kwî, young man.  24, 10.
   se kwî ya ze, small child.  14, 7.
   ts’e yâ kwî, old woman.  14, 8.  (Fig. 248.)
   ts’e kwî, woman.  18, 10.
   e t’e de ke, girl.  31, 6.

Of relatives, in the plural only.

   eL tcî le ke, brothers of each other.  34, 1.
   be ’e kwî, his uncles.  17, 20.
be ne ści ke, parents. 13, 22.
Cf. Hupa, nik kil xai, your brothers; Kato, tc' yan ki, women; Jicarilla, bi tcec ke, his children.

An uncertain suffix occurs in dün ne ₁yo, man, 21, 1 (Fig. 122) distinguished as a male being from dün ne, which means man in the wider sense.

There are two suffixes employed with the names of plants and animals either to indicate the young or the adult of the species, or when different species resemble each other to indicate the larger or smaller species. They are also used of natural and artificial objects to grade them into classes according to size.

-tcök', -tcō, large.
öl dai ye tcök', large jackfish, 31, 8; cf. öl dai ye, jackfish.
Lū we tcök', large trout. 15, 17.
Lin tcō, horse (Fig. 112); cf. Lin, dog.
θa tcök', fisher; θa, martin.
θe li tcōk', badger. (Fig. 109.)
tci ze tcök', panther, lion, 36, 7; tci ze, lynx.
ts'ü tcık', spruce. 43, 1. (Fig. 110.)
des tcök', large stream, 12, 6; des, stream.
ts'i tcök', large boat. 40, 5.
tcθ tcök', large cane; cf. Hupa, tits cane.
Cf. Hupa, kiu. we kyō, spider; Kato, dus tcō, grouse; Jicarilla, i ya ne tsō, large buffalo; Navajo, mā' i tsō, wolf.

-ya ze, small; perhaps originally was restricted to the meaning, "the young of."
e θün ya ze, young caribou, 29, 12; e θün, caribou.
el ya ze, small spruce. 33, 17.
Lū we ya ze, small fish, 31, 2; Lū we, fish.
bes a ze, pocket knife (Fig. 114); cf. bes, knife.
des a ze, small stream. (Figs. 10, 111.)
öl da yī was ze, I was a small jackfish, 30, 16, has the diminutive ending conjugated.
Cf. Kato, ca' na' yacts, small creek.

**COMPOUND NOUNS.**

Many nouns are composed of a noun stem followed by a qualifying adjective which by describing the object differentiates it from a similar one.

'i dū e, vest; cf. 'i', coat and ne dū e, short. (Fig. 120.)
i t'ā ba θas, a tree; i t'ā, leaves, baθ, round, yas, small.
Fig. 109.  the li took', badger.

Fig. 110.  ts'ü took', spruce.

Fig. 111.  des a ze, small stream.

Fig. 112.  lī teō kōwe, horse stable.

Fig. 113.  ya zā', clear sky.

Fig. 114.  bes a ze, small knife.

Fig. 115.  yaθ lū, hail.'

Fig. 116.  the ceθ, Rocky Mountains.

Fig. 117.  ya k'wūθ, sky.

Fig. 118.  dūn mī θūθ, moose hide.

Fig. 119.  tī ci T', coat.

Fig. 120.  t' dū e, vest.
ya del gái, gray back louse; ya, louse, del gái, white.
na gi ñe zún', black fox; na gi ñe, fox, del zún, black. 43, 18.
sas del gái, white bears, 29, 2; sas, bear.
sa ñe beθ, full moon.
θúń θúń i, evening star; θúń, star, del ñók, yellow.
de ne slí ne, mean man, 37, 11; de ne, man; slí ne, mean, bad.
tcí'í le sô lì ní, a small frog.
k'ai k'₇ ze, a dogwood; willow red.
k'üć ta ñe, black poplar; k'üc, poplar, (?)
yá zā', blue sky, ya, sky, zā', only (?)  (Fig. 113.)

Closely related to these are the following in which the second term is not a qualifying adjective, but has verbal force.

na gá din, blind man; na gá, eyes, din, none.
dzá gá la ze, a proper name; leg trembles.
be tsí ne ye ne ca, a proper name 15, 2; be tsũ ne, his grandmother, ye ne ca, she raised him.

Many compound nouns have the second member in the possessive case. In other instances it is difficult to be sure whether this relation exists or not.¹

e lez θůθ, bladder; urine sack.
et θúń ke ge, caribou tracks. 16, 11.
e tcā hō θ'ún ne, rib. 9, 1.
sa l'ũ le, sunbeams; sun strings. 21, 2.
sa ñóθ, furs, beaver skins. 44, 18.
djeθ L'ũl, fish line; hook line. 31, 2.
ka tũ we, goose lake. 43, 7.
lín tcōk' th l'ũ le, bridle; dog large head rope.
da tsa tcěl le, a small crow; da tsa, crow, tcěl le, younger brother (?)

A few compounds have no indication or possibility of a possessive relation but have the first element qualifying the second.

θe ceθ, Rocky Mountains; this term is probably a translation only of the English name.  (Fig. 116.)
tcí'íl e dlů ne, a jumping mouse; frog-mouse.
L'ũ lůc, mowing machine; grass-knife.
yaθ lů, hail; cf. yaθ, snow and lů lů, hail.  (Fig. 115.)

One noun, tel k'ũθ i, gun, 44, 2, is a verb in form with the stem -k'eθ, to shoot with a gun. There are probably many other verb forms so used.

¹ In other Athapascan languages the second member is usually preceded by a possessive prefix. Cf. Navajo, ni lij bi zís, your urine its sack: Jicarilla, ca bi l'ũ le, the sun its strings (beams).
Fig. 121. e t'e de ke, girls.

Fig. 122. dûn ne yô, man.

Fig. 123. döl gusî, gopher.

Fig. 124. xaît a zî, fall.

Fig. 125. e dêt', liver.

Fig. 126. xa tain li, spring of water

Fig. 127. se dëge, my throat.

Fig. 128. tcel tû I, tobacco.

Fig. 129. tsa xö t'îne, Beaver Indians.

Fig. 130. na k'e ts'et yai, eye-glasses.

Fig. 131. be dûn del gai, his skin white.
Pronouns.

Personal Pronouns.

The personal pronouns are seldom used independently except in direct address or where emphasis or contrast is desired. Both subject and object are incorporated in the verb, but in some instances it is impossible to connect them with the independent forms.

First Person.¹

se, I, me. Used when emphasis is desired for nominative or accusative case.

sa, sa', for me, to me. 16, 4; 17, 7. (Fig. 133.) Evidently a contraction of se with a, the latter giving the force of a dative.

set, with me. The final element t, perhaps preceded by a vowel, indicates accompaniment and is probably connected with the prefix et-, which has a reciprocal force.

Cf. Hupa, hwe, me; Kato, ci, I, ca, for me, cu t, with me; Jicarilla, ci, I, Navajo, ci, I.

First Person Plural.

nū hwū nī, we. 9, 11.

nō xe, we, us.

nō xa, nū xa, for us, to us. 36, 11; 45, 9.

nū xe t, with us. 20, 16.

nū' ba, for us. 40, 11.

Cf. Hupa, ne he, we, us; Kato, ne hiī, we, n hū t, with us; Jicarilla, na xi, we, na xa, for us; Navajo, nī xi, we, us.

Second Person Singular.

nen, nūn, you. 14, 2; 10, 4.

ne t, with you. 25, 19.

na, for you. 36, 5.

Cf. Hupa, nūn, you; Kato, nūn, you, na, for you, nū t, with you; Jicarilla, n di, you; Navajo, nī, you.

Second Person Plural.

nū xe, you.

nū xa, to you.

nū xe t, nū xe t, with you. 20, 16; 45, 4.

Cf. Hupa, nū hin, you; Kato, nū hiī, you; Jicarilla, n da xi, you; Navajo, nī xi, you.

¹ With se are used the various postpositional suffixes, listed on p. 121 below.
Third person singular.

The pronouns of the third person usually betray some demonstrative force. The limited material employed does not disclose a clear distinction in the meaning or use of the stems listed below.

\[\text{xa, for him. 38, 18.}\]
\[\text{xel, heL, xûL, with him; 17, 9; 7, 7, cf. xel, with by the instrumentality of. 18, 7.}\]
\[\text{xî li, hi li, with. 13, 14.}\]
\[\text{Cf. Hupa, xûn, he, him; Kato, hûn, he, him, hûL, with him; Jicarilla, hi, he.}\]
\[\text{ba, to him, 8, 3; for her, 14, 14.}\]
\[\text{bel, with them. 24, 19.}\]
\[\text{kel, with it. 17, 8.}\]
\[\text{Cf. Kato, kin, himself, kwûL, with him.}\]

Reflexive.

\[\text{e di ni, himself. 10, 4; 23, 14.}\]
\[\text{e de xa, for himself. 30, 2.}\]
\[\text{e de bâ, around himself. 21, 3.}\]

**DEMONSTRATIVE PRONOUNS.**

\[\text{e ye, that. 8, 4.}\]
\[\text{e ye ne, those. 27, 17.}\]
\[\text{e yî, that. 7, 15.}\]
\[\text{ya', for him. 16, 4. (Fig. 204.)}\]
\[\text{yel, with him. 24, 9.}\]
\[\text{Cf. Hupa, yô, that; Kato, hai ye, that.}\]
\[\text{dî dî,1 this, these. 9, 7. (Fig. 15.)}\]
\[\text{dî ri, this, these. (Fig. 16.)}\]
\[\text{Cf. Hupa, ded, this; Kato, dî, this; Jicarilla, dî, this; Navajo, dî, dî, this.}\]
\[\text{t'a that, 9, 21; often used to point out one of several persons or things characterized by a descriptive phrase or clause.}\]

**POSSESSIVE PRONOUNS.**

The possessive forms are in some cases simpler than the independent forms which it seems probable have been extended by formative elements. They are prefixed to the nouns they limit. A list and examples will be found on page 96.

\[1\] This seems to be an example of reduplication, since dî, or de is a demonstrative by itself.
RELATIVE PRONOUNS.

There seem to be no relative pronouns, although relative clauses are not infrequent. A verbal suffix, -nî, seems to be used to subordinate one clause to another. An example will be found on page 7, line 9; nû nî ye ga nî nî ya nî, "wolves to them which came." In some instances the demonstrative, t'a, has the double meaning of "that which."

ADJECTIVE PRONOUNS.

Only a few adjective pronouns have been observed.

hô del yû', all. 28, 9.
hô na sî, remainder. 28, 11.
t'a ðe rî, the oldest. 34, 2.
t'a ge 'a ze, the farthest one. 17, 6.
bô nel t'û, both. 9, 21.
Lâî lâî, Lâî lâî, many. 16, 20; 17, 1.
t'a ne zû, the best. 20, 10.
t'a hi ün nî, the next. 21, 18.

INTERROGATIVE PRONOUNS.

e dîâ gî, who? 23, 5.
e dla e ga, why? 37, 11.
e dla gi ga, for what reason? 27, 14.
e dî ñî, where? 20, 14.
e dla ji, where?
e dîâ niâ ña, how far?

INDEFINITE PRONOUNS.

t'a, that one, those. 23, 13.
t'a ts'ûn, toward somewhere. 9, 18.
t'a sî, something. 8, 8.
t'a sô, t'a sô', something. 7, 9; 11, 20.
t'a hi, some kind, 33, 12; which one, 32, 5, 6.
t'a hi t'a, with what? 35, 7.
t'a hô ts'î, wherever from. 37, 13.
t'a xô t'a, what kind? 31, 12.
NUMERALS.

The numeral system of the Athapascan languages is decimal beyond ten, but in some dialects the numbers from five to ten are the first five digits distinguished by some qualifier as belonging to a second series. Kato has for six, "the other side one," and Chipewyan "again three,"

\[ \begin{align*}
    & i \text{ la } i, \text{ one. (Fig. 136.)} \\
    & i \text{ la } i, \text{ one man, 7, 13.} \\
    & i \text{ la } ge, \text{ one man. 31, 6.} \\
    & \text{Cf. Hupa, la, one, } lâ \text{ wûn, one man; Kato, la } ha', \text{ one; Jicarilla,} \\
    & \text{da } la'e, \text{ one; Navajo, t'a la'} i, \text{ one.} \\
    & \text{na ke, two. 9, 6. (Fig. 137.)} \\
    & \text{na de ne, na } dûn \text{ ne, two persons. 25, 7.} \\
    & \text{Cf. Hupa, nax, two, na nin, two men; Kato, nak } ka', \text{ two; Jicarilla,} \\
    & \text{na ki, two; Navajo, na } ki, \text{ two.} \\
    & ta, \text{ ta } ge, \text{ three. 43, 5; 43, 9. (Figs. 18, 138.)} \\
    & \text{ta ni, three persons. 39, 13.} \\
    & \text{Cf. Hupa, tak, three; ta } kûn, \text{ three persons; Kato, tak', three;} \\
    & \text{Jicarilla, kai i, three; Navajo, ta', three.} \\
    & di } gi, \text{ four. 43, 12. (Fig. 139.)} \\
    & \text{Cf. Hupa, } di'k, \text{ four; Jicarilla, di } i, \text{ four; Navajo, di, four.} \\
    & sa } so la } gai', \text{ sôn } la'e, \text{ five. 44, 19. (Fig. 140.)} \\
    & \text{Cf. Hupa, } towô la, \text{ five;} \\
    & al } k'e \text{ ta } ge, \text{ six, again three. 44, 19. (Fig. 141.)} \\
    & tô ta', \text{ ta } ye \text{ wa } tâ, \text{ seven. 44, 5.} \\
    & al } k'e \text{ di, al } k'e \text{ di } gi, \text{ eight. 44, 10; 45, 9. (Fig. 142.)} \\
    & i } la } tâ', \text{ i } la } xo } tâ, \text{ nine. 43, 19. (Fig. 143.)} \\
    & hô } nun na, \text{ hô ne na, ten. 44, 20. (Fig. 144.)} \\
    & hô } nan na e } t' } lai i, \text{ eleven.} \\
    & hô } nan na e } na } ke, \text{ twelve.} \\
    & nô } nun na, \text{ twenty.} \\
    & ta } hô } nun na, \text{ thirty.} \\
    & di } hô } nun na, \text{ di } hô } ne na, \text{ forty.} \\
    & sus } so la } hô } nun na, \text{ fifty.} \\
    & al } k'e } ta } \ hô } nun na, \text{ sixty.} \\
    & t'o } t'a } hô } nun na, \text{ seventy.} \\
    & al } k'i } di } hô } nun na, \text{ eighty.} \\
    & i } la } tâ } hô } nun na, \text{ ninety.} \\
    & hô } nun na } hô } nun na, \text{ one hundred, 36, 7.} \\
    & mil, one thousand. (French.)
\end{align*} \]
Fig. 132. et ðûn, caribou.

Fig. 133. sa ‘ai ne ꞌa, for me snowshoes make.

Fig. 134. da sî, west.

Fig. 135. e yet’ nî ða hî le’, there far not.

Figs. 136–137. I ña, one; na kî, two.

Figs. 138–141. ta ñî, three; dî ñî, four; sõn la’ e, five; aI kî ta ñî, six.

Figs. 142–144. aI k’I dî, eight; ña tâ, nine; hō nûn na, ten.

Fig. 145. ni ðî, tamarack.
ADVERBS.

Many adverbs appear to be related to demonstratives, while others have stems which have not been found in other parts of speech.

PLACE.

ai yet’, there. 18, 7.
a la ts’i, on either side. 12, 6.
a ke tca ge, near the door. 27, 2.
e ye xõ ts’i, from there. 30, 2.
e yer, there. 11, 3.
e ye dô sin, from there. 30, 14.
e yet’, there. 7, 3. (Fig. 135.)
e yet xõ ts’i, from there.
e dî, too close. 12, 17.
e di si, another way. 12, 4.
e kô ze, there. 37, 10.
e kwa ze, that place, the same place. 21, 19.
û za, the other side. 29, 18.
wa ‘a, ya ‘å, over there, little ways off. 39, 3; 29, 10.
wa ‘an ne, ya ‘ûn ne, there, outside. 8, 3. (Fig. 156.)
wa ‘a hûn k’e, ya ‘a hû k’e, little ways in the brush, out-of-doors. 17, 14; 16, 6.
wa ‘a hwû, little ways. 13, 21.
wa wa gai, down. 29, 2. (Fig. 152.)
wa na òe, ya na òe, in front. 11, 2; 28, 17. (Fig. 155.)
wa ne, ya ne’ e, behind. 26, 10; 8, 20. (Fig. 154.)
wa nî si, ya nîs ‘i, behind. 28, 16; 19, 11.
wa òe e, north.
wa da e, down stream. 44, 6.
wa da ‘e, west. 14, 5.
wa da hwû, up the hill. 40, 11.
wa da ga, ya da ge, up. 7, 16; 37, 3. (Fig. 153.)
yat òi’, on the (frozen) lake. 30, 3.
yat òi’ ci, from the lake. 18, 15.
wa ga, ya gai, in, under, below. 31, 3; 14, 7; 19, 3.
ye nas si k’ûs i, on either side. 27, 2.
ye hô la ye, upstairs. 37, 9.
ye da tâ gai, between. 36, 9.
ye de di’, against. 45, 16.
yîn Lag ge, next the door. 27, 5.
yî ē, inside. 27, 1. (Fig. 191.)
yô wai, yô we, yô ge, over there. 25, 17; 10, 4; 15, 11.
yô we t’a, there. 27, 15.
yû ‘ā, over there. 27, 20.
yû ‘ân ne, outside. 8, 5.
yû hwû, over there. 36, 15.
yû da’, outside. 16, 16.
yû da sî, north. 23, 11.

na sî, south.
nà sîn k’ô th e ts’t’, on the opposite side. 43, 18.
nà be ts’un, over, beyond. 44, 18, 21.
nà din nî ãa, high up. 7, 11.
nà din nî ãa hi le’, not high up. 7, 12.

na t’ô th, on edge. 34, 10.

ne dja, ne djà, here, there. 23, 6; 15, 15.
nî li da’, upstream.
nî ãa, nî ãai, far. 7, 6; 28, 16.
nî hô ya gai, nî hwû ye, under ground. 9, 4; 8, 11.

\( \theta ì \) ye, in fire. 23, 15.

\( \theta ì \) sî, north.
hô ‘ân nîl ãa hi, farthest. 33, 6.
hô nî zi’ ts’un, to the middle. 33, 9.
hô ga’, close. 21, 17.
xô ‘a ze, over. 33, 7.
xô ya ze de’, a little distance. 7, 11.
xô gai ye, in the open.
xô ka’, on a hill. 21, 10.
be te\( ð \), over, beyond.
da zi, da sî, west. (Fig. 134.)
dë zi, here. (Fig. 150.)
de te\( ð \) ye, in the brush. 18, 11.
djà, here. (Fig. 149.)
ta ba ge, ta bâ e, by the shore. 17, 11; 31, 5.
ta dja de, middle of lake. 30, 10.
ta dja ge, ta dja e ge, middle of lake. 30, 3, 18.
kô bâ ge, by the fire. 22, 9.
k’e\( e \)l xa, back. 29, 1; 44, 4.
k’e da ge, upward. 7, 15.
se ga'
Fig. 146. se ga', beside me.

se ya ga
Fig. 147. se ya ga, under me.

be k' e
Fig. 148. be k'e, on it.

djā
Fig. 149. djā, here.

dē zi
Fig. 150. dē zi, here.

be laye
Fig. 151. be laye, on top of it.

ya ya ga
Fig. 152. ya ya ga, down.

ya da ga
Fig. 153. ya da ga, up.

ya ne e
Fig. 154. ya ne'e, behind.

ya na the
Fig. 155. ya na thee, in front.

ya 'an ne
Fig. 156. ya 'an ne, there.

et 'a xa'
Fig. 157. et 'a xa', soon.
TIME.

ā la hwō, 'an la hū, 'an la hū, after that, since then. 20, 2; 32, 11; 32, 12.

*ā Lōn t'a, yet. 11, 10.
*ā Lō, again. 15, 18.
a Lō hū, since. 34, 12.
ā Lā hwū, afterward. 22, 17.
āl hwō, still. 21, 4.
aθ la hwū, still. 20, 1.
a t'a xa, soon. 31, 7.
e ye xō τ's'ī, 8, 1.
e yer xō τ's'ī, after that. 10, 18.
e yet', e yit', then. 12, 2; 31, 11.
e di i gā, too soon. 25, 13.
e ts'in na θe, finally. 19, 3.
e t'a xa, e t'a xa', after a while, soon. 30, 11; 8, 11.
e kū, then, 7, 3.
e kwa zi, there, at the same time. 19, 2.
ī la, once. 32, 4.
'i t'a, then. 23, 1.
ya nī, before this, previously. 8, 7; 18, 3.
ya nī si', previously. 38, 1.
sa t'a nel t'i, every time. 14, 17.
θa, long time. 8, 5.
θa e, θai 'e, long time. 24, 1; 16, 1.
θa xō ya ze, short time. 17, 15.
θe', first. 33, 9.
he na ti hū, he na t'i hū, at one time. 34, 2.
hōn. dū, hōn. dū', after that. 23, 22; 9, 22.
hō k'e ze, xō k'e ze, after, afterward. 45, 4; 15, 8.
xō tsi ūn ne, the beginning. 34, 13.
dū hwū, dū hwū, dō hwō, now, this time. 32, 1; 20, 21; 28, 5.
dzī ne, daytime. 13, 12.
dzin ne k'e, day. 38, 21.
te L'e ge, at night. 12, 10.
t'a θe, first, in the beginning. 7, 1.
t'e, still. 34, 12.
t'e da ne, soon, lately, immediately. 8, 5; 13, 1; 10, 13.
t'i ta, t'i t'a, soon, then. 13, 21; 25, 4.
t'i tsūn, immediately. 10, 11.
ke L'e ge, in the night. 28, 3.
kō, then. 39, 8.
kō se, kū se de', then. 36, 4; 37, 22.
kōt ə'i, again. 12, 10.
k'a ni, now. 10, 18.
k'at da ne, already. 39, 12.
k'a bi', k'a bi' hwū, in the morning. 44, 5; 7, 9.
k'a dje ne, k'a djin ne, near. 28, 12; 36, 9.

MANNER.
es din ni ye, not alone. 18, 2.
es tin ni ye, for nothing. 39, 6.
yi', yi, yin', only. 14, 2; 31, 16; 10, 22.
yi t'a xo di, only. 32, 3.
yoi yi ne, only. 10, 12.
za, za', only. 25, 3; 36, 4.
θū', θū, θūn, in vain. 25, 8; 14, 8; 33, 14.
θ'i, again. 7, 8.
hō yi ne, hō yi hwū, alone, only. 8, 1; 45, 13.
hwūn L'ūθe, too much. 17, 6.
hō te ye, sure, certainly. 29, 19.
xō i yi ne, only. 16, 12.
xō ti ye, more. 40, 9.
be na ta ge, without his knowledge. 12, 16; 17, 18.
tcū, too. 16, 10.

DEGREE.
a in the following words seems to mean "to such a degree."
a inl ne ṣi, so long.
a yaθ t'i ɡinl tun, so snow was thick. 43, 12.
a nīl əa, a nīl əa hi, a nī əa, so far. 45, 11.
ún nī əa', that far. 44, 5.
Cf. Hupa, a Lûk kai, so white.

ASSENT AND NEGATION.
ā e, yes.
ē, yes.
xē, yes. 39, 8.
Cf. Hupa, añ, yes, hei yūn, yes.
i le', no. 15, 5.
hī le', no. 29, 4.
Conjunctions.

e kū, then.
e kū de, well then.  27, 17.
e yī t'a, for that reason.  32, 10.
e ts'i na ðe, finally.
i xa t'a (suffix), because.  38, 21.
i t'a (suffix), because, in order.  38, 20.
hō ga de, in order.  20, 11.
kō lū, but, although.  12, 21; 40, 7.
hō lū, but.  7, 14.

Postpositions.

A number of enclitic particles are suffixed to pronouns and nouns forming adverbial phrases. It is sometimes difficult to be sure whether a certain particle belongs to the substantive which precedes it or with the verb which follows. As a class the former require an object to immediately precede it while the similar particles used with verbs may have the object understood.

-ya gai, under.
   be ya gai, under them.  13, 14.
   Cf. Hupa, mi ye, under it; Kato, ð ye', under; Jicarilla, bī ya, under him; Navajo, bī ya di, under.

-ye', in.
   be ye', in it.  7, 2.
   nāl tceθ ye, in a sack.  21, 7.
   Cf. Navajo, bī yī', in; Jicarilla, bī ye', inside;

-nas sī k'ūs i, on either side.
   ye nas sī k'ūs i, on either side of him.  27, 2.
   ye na sin k'ēs sī', on either side of him.  8, 11.

-na ta ge, with the knowledge of.
   be na ta ge, without his knowledge.  12, 15; 17, 18.
   Cf. Kato, kw na tao ha', without his knowledge.

-n ka, for, after.
   bīn ka, for him.  24, 14.
   Cf. Hupa, mūx xa, after it; Kato, nō kwa, for us; Jicarilla, yī ka, for that; Navajo, ba ka, for.

-la ye, on top.
   be la ye, on top of it. (Fig. 151.)
   cθ la ye, hill top.  20, 2.
   Cf. Hupa, mil lai, on top; Kato, ü lai', its top; Jicarilla, bī la ka e, its top; Navajo, bī la ta, on the summit.
-L'a gai, in the absence of.
  be L'a gai, in his absence.  22, 20.
  ne L'a gai, in your absence.  23, 8.
  Cf. Jicarilla, yī L'a nan ye, behind them.

-θε', -the' before, in front of.
  yet θε', before him.  33, 10.
  θűnθ θε, in front of spears.  30, 7.
  dűn ne θε, ahead of people, 26, 10.

-ci, from.
  ya dí ci, from the lake.  18, 15.
  Cf. Jicarilla.

-xa, for.
  e de xa, for himself.  30, 2.
  důl xa, for blood.  21, 6.

-ba*, for.
  se ba*, for me.  30, 6.
  ne ba*, for you.  9, 9.  (Fig. 244.)
  be ba*, for her.  10, 8.

-bā, -bā*, around, the border of.
  e de bā, around himself.  21, 3.
  ye bā*, around them.  29, 8.
  kō bā ge, by the fire.  22, 9.
  be i ye ba ne, around her clothes.  20, 9.
  be ba ne, its border.  23, 2.
  Cf. Jicarilla, yī bā ye, its edge.

-da tā gai, between.
  ye da tā gai, between them.  36, 9.

-di, without.
  ye dī, without him.  20, 1.
  he dī, without.  10, 2.
  Cf. Hupa, xōn ta ē din, house without.

-ta, -ta*, near, to, among.
  be ta, to it.  25, 13.
  et. ta*, together, to each other.  25, 1.

-ta tc'a ze, opposite.
  be ta tc'a ze, opposite him.  27, 1.

-teθ, beyond.
  be teθ, beyond.
  Cf. Hupa, xō tis, over him; Kato, o tūs, beyond it.
-ts'i, -ts'i, from; the source, or origin of the motion, while -tc'a ze implies separation.
be ts'i, from it. 16, 20.
ze ts'i, from you. 11, 17.
ha binl ts'i, from the nets. 23, 1.

-tc'a, -tc'a ze, from, away from.
se tc'a ze, from me. 40, 3.
be tc'a, from it. 22, 4.
e lai tc'a ze, from each other. 29, 9.
Cf. Hupa, hwik kya, from me; yi ts'a, from them; Navajo, si ts'a-ji, away from me.

-ts'ûn, toward, to.
se ts'ûn, to me. (Figs. 209, 212.)
ze ts'ûn, to you. (Fig. 214.)
be ts'ûn, to her. 10, 11.
djeθ ts'ûn', toward hook. 25, 12.
Cf. Hupa, xo tc'i, toward her; Kato, ð tc'ûn', to him; Jicarilla, bi tc'i, toward him.

-t'a, with, by means of.
ye t'a, with that. 25, 11.
be t'a, with it. 22, 12.
de tcûn t'a, with a stick. 23, 17.

-ga, -ga, at, by, beside.
se ga, by me. 33, 16. (Fig. 146.)
ze ga, by you. 26, 1.
be ga, beside him. 8, 10.
el xâ (el gâ), to each other. 34, 5.
nō xa, for us, 36, 11.
L'û le ga, about a rope. 10, 10.
Cf. Hupa, xô wûn, to him.

-ga k'ûø e, beside.
ye ga k'ûø e, beside it. 29, 13.

-ka, to, after; used when one is starting to go to some one.
be ka, for them. 36, 5.
de ne ka, to the people. 9, 22.

-k'e, on it.
se k'e, on me.
be k'e on it. 30, 12.
de tcûn k'e, on a tree. 21, 17.
el k’e, on each other. 20, 10.
Cf. Hupa, mûk kût, on it; Jicarilla, bî k’e, by them; Navajo, bî k’i, on it.

-k’ûz e, on, against; perhaps the last (-k’e) with ze.
dē tcûn k’ûz e, on a tree. 12, 10.
tû k’ûz i, on the water. 19, 15.
The verbs of Chipewyan, like those of other Athapascan languages, are built up of many elements, each having a fixed place in the verb. Some of these have meanings which are clearly apparent when verb forms containing them are compared with other forms which lack them or have different elements. Only a few of these elements occur in the language except in the verb forms. Since the stem, that is, the element which most clearly defines the act, stands toward the end of the verbal complex, it is convenient to subdivide these elements into prefixes, stems, and suffixes.

The prefixes standing first in order are adverbial ones which indicate the position or direction of the action. For example, ye da nî ya, he went in, has for the first element, ye, which means in. In many verbs, these adverbial prefixes are not required and do not occur. Next in order are modal prefixes the meanings of which are more difficult to determine. Some of them, at least, limit the time of the act, particularly in regard to its inception, continuance, or completion. If a man starts out on foot, te ya, is the verb used; but if he arrives, nî nî ya. In these words te is used for acts which are beginning and nî for acts which are completed.

Following the modal prefixes are the subjective prefixes of the first and second person. The third person is usually without such a prefix, but sometimes a deictic prefix connected with a demonstrative stem is used in the third person, but its position is near the beginning of the verbal complex. Let me stab is, hwûs gwi; you stab, hi'n gwi; let him stab, yû gwi in which the sign of the first person is s, the second person is n, and the third person, y.

Some verbs have modal prefixes following the subjective prefix and immediately preceding the stem. One of these is capable of changing an intransitive verb to a transitive one, or of involving a person other than the subject in the act, while another shows that the act is repeated.

The stems, which in many cases conclude the verbs, beside defining the act often indicate by their forms the class of objects effected. For many verbs an entirely different stem is used when the object is plural, and in a few verbs there are different stems for the singular, dual, and plural. The stems often change their form slightly for the past tense.

Suffixes are more rarely found than are prefixes. They are frequently dissyllabic and some of them appear to be reduced verb forms. They are employed to indicate the source of information and limit the verb modally.

With so many elements entering into the verb there is a mathematical possibility of an enormous number of verb forms. Usage has, however, selected certain combinations which have become adjusted phonetically.
and these are employed with little consciousness of the meaning of the individual elements.

It is not always easy to be sure whether certain elements are to be considered as a part of the verb or whether they belong to a preceding noun or pronoun. They have been written as a part of the verb in many cases because they are phonetically adjusted to it. In the verb biĩ kas kũθ lo sa', "I would roll for it," 33, 3, the separation of the phrase biĩ ka, "for it," would leave the phonetically incomplete s kũθ lo sa'. Phrases such as, be gũn, from him, written with the verb, page 28, line 17, be gũn na set-dil ni ta, they had gone away from him, have not been discussed in the following pages, but have been treated on page 122 above.

ADVERBIAL PREFIXES.

a-, 'a-, ai-, of no known meaning; it is used with verbs which mean to say and to do.

as i', I did it. 20, 16.
'a di, he spoke. 25, 19.
'a t'i, he is. 25, 17.
ai yeŁ ni, he spoke to. 15, 4.
ai yū le, let him make.
Cf. Hupa, a den ne, he said; Kato, ac t'e ye, I am.

'ā-, 'an-, ai-, back, in the direction from which one came, toward home.
'ā te dja, he started back, 37, 15; but, te ya, she went, 20, 1.
ā te thī del, we started back, 44, 14; but, te thī del, we went, 43, 17.
ai ye teŁ tin, she carried him home, 14, 10; but, ye teŁ tī, she carried him, 17, 2.
an teŁ tī, they took him home. 38, 16.

'a-, an-, away; carries the sense of desertion or abandonment.

ant hwūs ni, I am going to leave him. 19, 19.
a se te dūk', he threw me away. 31, 5.
'a ne tūs ne hi le sī, I will not leave you. 40, 15.

e Le-, each other; it has a reciprocal meaning.
e le ts'ūL del, they came together. 25, 6.
e le de di, joined together. 23, 3.
e let ts'el gel, when they fought (each other). 24, 19.
Cf. Hupa, le nel te, let us meet; Kato, le ges 'a', it encircled.

e kwa-, the same, in the same manner.
e kwa a ne ne, do that. 28, 6.
e kwa a di, he said the same. 12, 2.
e kwa sín le, you do it. 38, 3.
Cf. Hupa, xa a it yau, she did that; Kato, kwac íne, I always do that.

ya-, up, into the air.
yail ðet hoí yi, he was falling (up). 7, 15.
ya sel dil la las dja, he took me up quickly. 30, 17.
Cf. Hupa, ya te xan, he picked up; Kato, ya’ gúl gal, he threw up; Jicarilla, ya na yil dil na, he threw them up; Navajo, ya il-t’ei, it is tossed up.

ye-, ye da-, into; used of a house or similar enclosure.
ye dán ní ga, come in; but, tí ní gai, go out.
ye da ní ya, he went in, 28, 2; tí ní ya, he went out, 28, 4.
Cf. Hupa, ye wií ya, come in; Kato, ye nat ya, he went in; Jicarilla, ye i ya na, he went in.

na-, down, vertically down.
na ge t’ak’, he flew down. 12, 13.
na gí L’i, they fell down. 16, 20.
na ge djau, when he came down. 37, 7.
na gí ‘a, sun went down, evening. 19, 5.
Cf. Hupa, nal tsit, it fell down; Kato, na gût yai, he came down; Jicarilla, na ga gí na, she carried him down.

na-, across, to move or be in a horizontal position.
na wa sa, I am going across.
nan ní ya, I crossed a stream (on a bridge or log).
Cf. Hupa, na nií yai, he crossed; Kato, na núñ Lat, jump across; Jicarilla, na nan za, they moved across.

na-, over the surface of the ground or water, back and forth; used of walking or moving without a definite goal.
na te ki’, he paddled. 22, 20.
na ge dal he k’e, he walked along. 12, 18.
Cf. Hupa, na ísçu, he rolled about; Kato, na ca’, I will go about; Jicarilla, na ga ‘òl na, it floated around.

na-, again; used apparently also of habitual acts.
na ginl tí, he put back, 21, 15; but, ne ginl tí, he put, 21, 7.
na te dja, he went back. 25, 15.
te’ ní ‘ă, she put in the water, 15, 17; but, te na ní ‘ăû, when she put in again, 15, 18.
na ñi ye tel ní, he ran (again), 22, 17; but, ñi ye hel ní, he ran, 22, 3.
na hōt. tsi, she made, 17, 11; but, hwōl. tsi hū, when she made, 16, 1.
Cf. Hupa, na te lōs, she led back; Kato, nas liŋ‘, it became again; Jicarilla, nan ‘ai, carry back.

There are many verbs with a prefix na- of such general meaning that it is nearly or quite impossible to discover a definite meaning. It occurs in such words as: na gin θet‘, he stayed there, 13, 11; nal ze nǐ, as he was hunting, 27, 9; na ze t’eθ, he took steps, 45, 15.

na da-, vertical, perpendicular to the earth.
na da θe ‘ai, (rock) stood up. 12, 20.
Cf. Hupa, na dū wiŋ‘a, it stood up; Kato, na t gūl ‘a, he stood it up.

nī-, of uncertain meaning.
 nī hīl a zū, he got up. 36, 10.
 nī na ñīz zīl ya, they got up. 7, 3.
 nī hi ya hwū, when he stood up. 29, 5.
 nī gin nīt ti hwū, when it had taken him. 12, 20.
Cf. Hupa, in na is dūk ka, she got up; Kato, nūn s’ūs tīŋ‘, she took him up.

La-, La ga-, Le ga-, probably a phrase, the whole verb meaning to kill in which it occurs being figurative.
La yī nīl de, she killed. 19, 17.
La nīl de de, if you kill. 9, 8.
La ga nes ñī tī‘a, I tried to kill him. 26, 2.
Le ga was de‘, I will kill them. 13, 11.
Le gūn nīl de, we killed beaver. 44, 7.

θīn-, ñī-, of uncertain meaning; it occurs with verbs meaning to run.
θīn ba ye te di‘, he ran (toward a person). 10, 12.
ñī ye hes ni, he ran away. 22, 3.
Cf. Hupa, tsn tit til di‘, let us run away; Kato, ts’ūn teθ del‘, they ran off.

sa-, se-, of uncertain meaning; used with verb meaning to play.
sa na was θet, I will play. 17, 13.
se na θet, he played. 17, 14.

ce-, of uncertain meaning; used with verbs meaning to eat or drink.
ces ti hi le‘, I could not eat. 31, 3.
ce gil yū, we ate. 45, 10.
cin ne t‘i, you drink. (Fig. 169.)
ci wac t‘i, I eat. (Fig. 180.)
xa-, xaï-, up, out of.
xa wa sa, let me go up (Fig. 173).
xa iñ nûk', she took out (of hole in the ice). 15, 18.
xa yi cûn, she carried him up (a hill). 17, 3.
Cf. Hupa, xa is yai, he came up; Kato, ka ya' ci', they dug;
Jicarilla, xa nan djai, bring out.

xô-, hô-, possibly has meaning of “there,” in space rather unlimited and
general.
xô de t'i, it could be seen. 19, 7.
xô dinL k'â, build a fire. 22, 6. (Fig. 163.)
xô del yaô, smoke rising. (Fig. 179.)
xô ga hwû, when they put up (a tipi). 26, 19.
hô 'ai, house stood. 37, 2.

xô ka-, up; used of climbing a hill.
xô ka was a, let me go up hill.
xô ka ñe yau, when he went up. 39, 9.

be-, to the surface of, against.
be de L'û, he tied to (a canoe), 7, 1.
Cf. Hupa, me it t'an, he stuck to it; Kato, bes giñ, he carried it
up; Jicarilla, be da hes l'ô, they tie on.

da-, used of positions higher than the ground.
daL ge, he climbed (a tree), 33, 17; but, teL ge, he went (on land),
33, 19.
da ñe lai, was hanging, 35, 10; but, ñe la hi k'e, lay there, 11, 11.
da de t'eô, he stepped on, 7, 14; but, na ze t'eô, he took steps
(on the ground), 45, 15.
Cf. Hupa, da nin sa, sit (on a chair); Kato, da bes ya', he climbed
on; Jicarilla, da nes na da, he sat (on limb of tree).

de-, used of motion or position in or into fire.
de gin xûl, they put in (fire). 23, 15.
de nûL t'es, pile up (for a fire). 26, 5.
Cf. Hupa, de de iL kas, he threw into the fire; Kato, de dic tañ,
I will put in the fire; Jicarilla, de nL dje na, she put fire.

ta-, of positions and movements relating to water.
ta ñe la, he took out (of water). 25, 15.
ta nel 'a xoî yi, water continued to come. 19, 3.
ta ki hwû, when he paddled. 23, 1.
Cf. Hupa, ta na is tan, she took it out of the water; Kato, tai 'a-
bûn, water will settle back; Jicarilla, ka nai gis na, she was
rubbing in water.
te'-, relating to water; undoubtedly connected with the last prefix.
   te' ni 'ā, she put in the water. 15, 17.
Cf. Hupa, te teū wīn an, he put it in the water; Kato, te' nō ni gi-
   ne, I put in water.

ti-, out; used of going out of a house or tipi.
   ti wa ya sūn na, let go out. 28, 3.
   ti ni ya he k'e t'a, he had gone out. 28, 10.
   ti ni ya hū, when he went out. 16, 6. (Fig. 181.)
dze de-, dji de, around from place to place; used of taking a walk for
   exercise or pleasure, or of carrying an object about with one.
   dji de gai ni, he was walking. 21, 1.
   dje des la, I swam around. 31, 1.
   dze de nūs lū, I will lead you. 40, 11.
   dze det teīθ, she took along. 10, 22.

ts'e-, used of approach to a body of water.
   ts'e ni 'as, they two walked. 17, 5.
   ts'e he ni 'a zū, they were coming to. 40, 19.
   ts'e na ni dil, we came to. 44, 14.
Cf. Hupa, tce ni nū ni, she came down to the beach; Kato, te'e-
   nan la, he jumped out. 1

ka-, kai-, after, in the sense of going after anything.
   kai ye ni thēn hwū, hunting for. 24, 3.
   ka thē ya ni, he went after. 39, 17.
   ka dūs dja, I will go for. 21, 19.
   ka te ki' ni t'a, they went for in a canoe. 24, 6.
Cf. Hupa, xan te, look for it; Kato, ka ya'ūn te, they looked for
   it; Jicarilla, xa na n dāi, go for it.

k'e-, off (?); used with verbs of cutting and breaking.
   k'e ni t'a ōū, when he cut off. 35, 4.
Cf. Hupa, kit te t'ats, he cut them; Kato, k'e tcin nac būn, you
   must bite off.

OBJECT PREFIXES.

Pronouns in their reduced forms are prefixed to the verb when an
object is required. They have their place at the beginning of the verb or
after the adverbial prefixes in case they are present. The forms of the
pronouns are: first person singular, se, ce, s-; second person singular, ne-,
n-; first and second person plural, nō, nō xe; third person singular and plural, be-, ye-.

cē ginL tel, take me. 15, 11.
na sī L'ūn, dress me, 16, 5; but, nai ye L'ōn, she dressed him, 16, 5.
se nē yūl hū sa, they are following me. 19, 8.
ne kel nī' nī sī, who kept you. 37, 14.
'a ne tūs ne hī le sī, I will not leave you, 40, 15; but, a se te dūk, he threw me away, 31, 5.

It is evident that in Chipewyan the noun object may be incorporated.
a de ne het. nī, he spoke to the man. 11, 14.
be na hō de ne ge tcūθ, she wrapped the man. 11, 4.

In the two examples given above, the noun de ne, man, occupies the place of the object pronoun. In other cases because there are no prefixes preceding the noun it is not possible to tell whether the noun is to be taken with the verb or not.

**FIRST MODAL PREFIXES.**

There are a number of modal prefixes having position next after the adverbial prefixes which are weak or reduced in form. The meaning of these elements is obscure.

ne-, nū-,
nū wūs xe, I am going to carry. 19, 21.
nū was 'ī, I will look. 29, 4.
ne ginL de hwū, she washed. 8, 6.
nī ye nūl tī, she put him down. 15, 13.
nūs da, I will sit. 8, 10.
da ne wūn leL, lean them. 12, 10.
ne tes, they two lay. 8, 11.

Cf. Hupa, xa nū win te, she looked for it; Kato, tc'n nōL yōt, let it blow.

de-, di-, in some words the meaning of separation is suggested.
de tel. nī', he reached. 7, 15.
na xa de ge la, were pulled back. 15, 8.
di gin 'at', she unfastened. 16, 19.

Cf. Hupa, tcit dū wīm mitc, he pulled off; Kato, na dic tca, let me eat.
te-, is used of acts thought of as beginning.
  te wū t'as, we two will go. 16, 20.
  te ya, he went. 26, 10.
  te əl del, we went. 43, 17.

Cf. Hupa, na tes del, they started back; Kato, tc' tes yai, he went.

It is uncertain whether he-, in such verbs as, he əe lin, she became, 10, 17, is a first modal prefix or a deictic prefix with reference to the subject.

DEICTIC PREFIXES.

Many verbs contain a demonstrative element which usually stands after the adverbial and first modal prefixes but before the second modal prefixes. This refers to the object in many cases but may refer to the subject.

y-, ye-, usually confined to the third person of the verb and apparently used when the object is known and has been mentioned.
  ye hūn ə, he found (a place). 37, 3.
  ye əi, he saw it. (Fig. 199.)
  ye ne ca', she raised him. 14, 9. (Fig. 217.)
  ni ye nil ke, she tracked him. 16, 9.

Cf. Kato, yi gün yañ, they ate it; Jicarilla, yi yes xi, he killed it.

b-, used as the last except that it more frequently occurs in the first and second persons.1
  be hwūs al, I am going to find it.

ts'-, used of the object, and perhaps the subject, when less definitely known and referred to.
  ts'el del, they ate them. 7, 4.
  ts'el Lū, he was caught. 21, 3.
  əa ts'e di, he addressed. 22, 13.

Cf. Hupa, kin niñ en, he brought it; Kato, tc'o' sūt, pound.

he-, is used for the dual or plural of verbs in the third person.
  ye he əi, they two saw him; but, ye əi, he saw him.
  na he ye gin əl tc'il, they (dual or plural) tore it; but, na ye gin əl-
    tc'il, he tore it.
  he he dū, they said, 8, 9; but, he nū, he said, 33, 13.

da-, is used for the plural of verbs in the third person.
  da ye he əi, they (plu.) saw him.
  da nel djet', they are afraid.

1 The material for illustrating this difference in use is scanty but by taking into consideration the phrases which precede the verbs it can be demonstrated. On page 36, line 3, be ka əf ya de, if you go for, and line 5, be ka wa sai, I will go for them, but in the same line, ye ka he ya, he started for them
SECOND MODAL PREFIXES.

The second modals seem to relate to the beginning, continuance, or cessation of the act or state. It is not certain that they are unrelated to the first modals which they resemble in form; their position however is different and they are generally confined to the past tenses, in their use.

**g-, gin-**, is used of acts or states which continue and are viewed as continuing for some time.

- *na gin dët’, he stayed there.* 13, 11.
- *gin lel, you carry.* 10, 3.
- *ginL as, they came (approached), 19, 14; but, ye gun ni nil as, they came (arrived) to her, 19, 15.
- *ne ginL de hwü, she washed.* 8, 6.

Cf. Hupa, *na wiñ yen, he stood; Kato, gun el, you carry.*

It is to be presumed that the w- which appears in many futures and presents of the first person is connected with this prefix.

- *ni wül ‘i, let us look (Fig. 203).*
- *xa wa sa, let me go up (Fig. 173).*

**θ-, θ-, θe-, θe-**, is also used of acts and states which are in progress.

- *na dëi ya, I went.* 17, 1.
- *θe dai, he sat, 14, 9; but, ne da, she seated herself, 19, 14.
- *θe la hí k’e, (hair) was lying.* 10, 12.

Cf. Hupa, *me tsis yen, who stands in; Kato, ka sì del*, we came up.

**n-, nin-**, is used of acts viewed as completed.

- *ni ni ya, he came.* 8, 2.
- *nin dja, he came (back).* 10, 1.
- *ni gi, he put him down, 21, 10; but, ne te gi, he took on his back,* 21, 9.

Cf. Hupa, *me nit xe, he finished it; Kato, ni gi ne, I bring.*

**d-**, is probably also a second modal, although the few cases in which it occurs might be explained as examples of the first modal de-.

- *dëi as, they came, 19, 16; but, ginL as, they came, 19, 14; no difference in meaning being apparent.*
- *del da, she sat.* 18, 14.
- *ni gā de ya, she waded in.* 19, 2.
- *na de la ni t’a, they were around.* 23, 3.
- *xa da del la, he took out.* 18, 2.

**h-, he-**, seems to be used with no reference to beginning, completion or continuance.
Fig. 158. θi da, I am sitting.

Fig. 159. θin da, you are sitting.

Fig. 160. θe da, he sits.

Fig. 161. θi ke, we two sit.

Fig. 162. θe ke, they two sit.

Fig. 163. xō dinL k'ā, build a fire.

Fig. 164. de θil θ'ī, we sit.

Fig. 165. dūL θ'ī, you sit.

Fig. 166. deL θ'ī, they sit.

Fig. 167. nûθ θ'ī bī, I swam.

Fig. 168. tūs be, let me swim.

Fig. 169. cin ne t'ī, you drink.
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na hin da, will you live, 37, 19; but, na gin da' wa li, you will
live, 36, 2.1
ye hünk 'ā, he found. 37, 3.
" hi ˈa zū, they got up. 36, 10.
ye ka he ya, he started for them. 36, 5.
na he dja, he started back. 36, 13.

SUBJECTIVE PREFIXES.

s-, first person singular; a reduced form of the first singular personal
pronoun se. This prefix is found in the present and future
of all verbs and in the past tenses of verbs which have the
reiterative prefix, t- or d-.
tūs be, let me swim (Fig. 168.)
hwūs tsū. I will take, 34, 15; but, hünk tsū, he took it, 35, 13.
as ˈa, I took it, 20, 16; but, a nel ˈa, did you take it? 20, 15.
nūs da, I will sit, 8, 10; but, ne da, he sat, 39, 11.
ges i, I see (Fig. 193.)
na thes dja, I went back, 44, 4; but, na the ya, he went, 27, 11.
na ges da' wa li, I will live (again), 36, 21; but, na gin da' o wa li,
you will live, 36, 19.

Cf. Hupa, xauw auw, I am going to take out; Kato, tūc ge', I will
carry; Jicarilla, na dic t'ā, I am chief; Navajo, yic bej, I boil
it.

i-, first person singular, dual, and plural; used in the singular with
verbs in the past tense and in the dual and plural when their
stems are different from that of the singular.
tī ya, I went, 44, 11; but, te ya, he went, 16, 9.
nī ni ˈa, I brought (Fig. 226.)
θi da, I am sitting (Fig. 158.)
xa θi ya, I went up (Fig. 170.)
xa θi dil, we went up (Fig. 175.)
te θi t'as, we two went, 44, 6.
te θi del, we went. 44, 7.
nī ni del, we came. 43, 18.
θel k'ēθ t'a, because I shot. 43, 10.

Cf. Hupa, te se la te, I am going to take them; Kato, sī tī ne, I
lay; Jicarilla, da se dā ye, where I had been sitting; Navajo,
nī lōz, I led.

1 There is no discoverable reason in these two examples why h- should be used in one
and g- in the other.
Fig. 170. xa òi ya, I went up.

Fig. 171. xa òin ya ús a, did you go up?

Fig. 172. xa òe ya, he went up.

Fig. 173. xa wa sa, let me go up.

Fig. 174. xa òin gai, go up.

Fig. 175. xa òi dil, we went up.

Fig. 176. xa òo 'a, you two went up.

Fig. 177. xa òo 'dil, you went up.

Fig. 178. xa òt 'as, we two went up.

Fig. 179. xø del yaò, smoke rising.

Fig. 180. ci wac t', I eat.

Fig. 181. ti ni ya hwü, when he went out.
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The t does not appear but it has converted the n into d.
nūl 'i, you two look (Fig. 195.)
ne wal djet hwū sa, are you afraid? (Fig. 223.)
nī nō Le hi, you brought, 11, 18; but, nī nī la, you (sing.) brought.
Cf. Hupa, na nō dit, you go across; Kato, be cō' lōs, take me up;
Jicarilla, xan da sa' le, take us out; Navajo, di cō aj, you two
go.

THIRD MODAL PREFIXES.1

The modal prefixes which are found between the subjective prefixes and the stems in some instances may by their presence or absence change the meaning of the verb. Certain stems are not used without the third modal L-, while t or d is usually found with the iterative.

L-, has a transitive force in some cases, or is used when an indirect object of a verb of speaking or saying is in mind.

er.nī t'a, he called, addressed him, 13, 18; but, he nī, he said, 13, 16.
nī nū t'as, the wolves came, 8, 16; but, nī nī 'as, they two (men) came, 7, 6.
nī nū tāi, he brought it (a person), 13, 5; but, nī nī tā, he brought it (a long object), 9, 2.

L-, with a few stems is found in all the forms, and at times with stems which are also used without any modal prefix or with L-.

nel djet', he is afraid (Fig. 222.)
na tsel kōs, he jumped. 13, 1.
hūl yī', called. 45, 14.
nīl ge, (dog) came, 45, 9.
gel tī, they put him. 38, 17.
nīl 'as hī le', they do not come. 32, 3.

n-, an n is found in the past tenses of many verbs preceding the stem or the third modal L-, but no meaning is known for it.

dī cin 'at', she unfastened. 16, 19.
nī gīnī Lal hī k'e, he could not move. 8, 12.
ye yint ūi hwū, when they dug. 9, 2.
yī hōnī 'a, she found him. 14, 9.

The relation of these third modals is brought out by the following examples:

na ye gīnī tc'il, he tore it; na gail tc'il, it is torn (someone did it);

1 These prefixes in Hupa are discussed under the caption Classes, p. 34, and for Kato in the section headed Third Modals, pp. 57–9.
na gin tc’l, it tore (from ordinary wear). da ye gin ‘út, he tore it; da get ‘út’, it is untied by someone; da get dük’, it came untied by itself.

ō-, ʊ-, is used in the future only. Since this prefix is used in the same forms with the third modal prefixes and precedes them, it probably is not connected with them in meaning or function.
tūs be, let me swim (Fig. 168).
tū sa, let him walk (Fig. 187).
te wū dīl, let us walk (Fig. 190).
Cf. Hupa, yō loi, let him tie (only found in third person); Kato, tc’ō gac, let him chew it (third person only); Jicarilla, dō ya’, let him come; Navajo, a dō nīl, he will do it.

VERBAL STEMS.

The meaning of the verbal stem can sometimes be discovered by accounting for the meaning of all other elements entering into the verb, when it appears that the stem must have the meaning which is required to give the complete verb the sense required to fit the context. For example in line 13 of page nine an teL az de, is said to mean “if it runs away,” and the context requires such a meaning. It has been discovered however, that an means “away,” that te means “to begin,” that L is used with certain stems and when its meaning is discoverable it has a transitive force, and finally the last syllable gives the conditional force, “if.” The stem az carries then the meaning of movement. By examination of the various words which have stems meaning to move it is found that az is only used of animals moving on four feet, and used only with a plural subject.

It is also possible to place side by side a number of verbs which are alike except that the stems differ. Since there is but one variable it is easy to see what the meaning must be to produce the differences in meaning.

nī nī ya, he came, one on foot.
nī nī ‘as, they came, two on foot.
nī nī del, they came, more than two on foot.

nī nī kī, he came, one or more in a canoe.
nī nī tā, he brought something long.
nī nīl az, they came, wolves or other four-footed animals.

It has not been possible of course to determine the meaning of all the stems in this manner. The meaning placed after the isolated stem is simply a judgment of what it probably means, and the examples are to illustrate this judgment and are not to be considered proofs of its meaning.
-‘a, -‘ai, -‘ā, -‘al to have position, used particularly of a round object, singular only.

na da θe ‘ai, (a rock) stood up. 12, 20.
na gi ‘a, it was evening (referring to position of the sun). 19, 5.
θe ‘ā hi k’e lai, (lake) was there. 17, 3.
hō ‘ai, (house) stood. 37, 2.
xō te ‘a hi k’e, (tracks) were in a line. 16, 12.

Used transitively.

na θe ‘a, he gave it. 13, 18.
ni ni ‘ā, he brought. (Fig. 227.)
ni wūn ‘ai, bring to me. 14, 12.
da niL ‘ā, I stuck my nose in. 30, 16.
te na ni ‘ai, put it in the water again. 15, 18.
te’ ni ‘ā, she put in the water. 15, 17.
Cf. Hupa, te tcii win an, he put in water; Kato, de dūn ‘ac, put on the fire.

-‘a, -‘ai, -‘ā, to find a person or thing.
yī hōnL ‘a, she found him. 14, 9.
be na xōs ‘ai wa li, I would find. 33, 1.
be hwūl ‘ā, they found him. 24, 14.
be hwūs ‘al, I am going to find.

-‘a, to send one, to give directions.
ai ye hel ‘a, he sent her back. 37, 15.
ni ya ti ni ‘a, he gave directions. 9, 6.
Cf. Jicarilla, da nL ‘a na, he sent word again.

-‘ā, to be full.
da nel ‘ā hoi yī hi k’e, it was filled with. 39, 11.

-az, -as, to travel, used of animals only in the plural.
na gal ‘ūs θ’e, heard the animals walking. 31, 17.
ni nīt az θ’e, he heard wolves come. 8, 16.
ginL as, caribou came. 19, 14.
Cf. Hupa, tel atc, pack-train came; Kato, tūl ac būn, turtles must walk.

-‘as, -‘az, -‘ais, to travel, used of two persons only.
ye dūn ne ‘a zū, when they two went in. 35, 10.
wō’ as, you two walk (Fig. 183.).
se ‘as, they two set out. 7, 5.
xa ḥi t’as, we two went up (Fig. 178.).
Fig. 182. wó, as, you two talk.

Fig. 183. wó, as, you two talk.

Fig. 184. wó, di, you walk.

Fig. 185. ge, as, they two walk.

Fig. 186. tú, ya, let him walk.

Fig. 187. tú, sa, let me walk.

Fig. 188. te wú, as, let us walk.

Fig. 189. ge di, they are walking.

Fig. 190. te wú, di, let us walk.

Fig. 191. yì, sè, hò, dú, ō, k, inside let us smoke.

Fig. 192. ye kò, kò, ye ya, on his track he walked.
ge 'as, they two were walking. (Fig. 185.)
dzī de 'ais ni, were walking. 34, 14.
Cf. Jicarilla, n ke 'ac na, they two started; Navajo, yī 'ac, they two are walking.

-ail, to bite.
ne eI 'ail, they bite. 26, 13.
Cf. Hupa, tcū wi nihil, he chewed; Kato, na tc'aI, he was chewing; Jicarilla da go aI, biting them.

-at', -ūt', to untie.
di gin 'at', he took off. 16, 19.
da gī 'ūt, I untied it.
Cf. Navajo, k'e is at, I untie.

-el, -el, -ūl, to move on the surface of water.
de ne tel el, they took them through the water. 7, 1.
na nū hwe i ginl ūl, take us through the water. 7, 2.
Cf. Jicarilla, xa na go el na, they floated to the top.

-èθ, to put on clothing.
dinl èθ, put on (my snowshoes). 16, 6. (Fig. 245.)
Cf. Jicarilla, yī di ̕ es, he put on moccasins.

-ì, to see, to look.
e wō' ì sā, did you two see it? (Fig. 198.)
ye he ì, they two saw it. (Fig. 200.)
yis ì, I see. 35, 10.
nī was ì, let me look. 29, 4. (Fig. 196.)
ges ì, I see. (Fig. 193.)
Cf. Hupa, nī iñ, look; Kato, nūc ì ne, I saw it; Jicarilla, gō nīl-ì na, they looked; Navajo, yō ì', let him look.

-ì', to steal.
yī ne ì' nī t'a, they stole. 18, 10.
ne ì', he stole it.
se ne ì' nī t'a, he stole me. 37, 12.
Cf. Navajo, a nī ì', he is stealing.

-ì, to do.
a nel ì' t'a, did you do it? 22, 12.
as ì, I did it. 22, 12.
a sel ì, they did to me. 40, 8.
Cf. Hupa, ai kyūw en, I will do; Kato, kwac ì ne, I always do that; Jicarilla, 'a da tc'īl ì na, they try to do it.
Fig. 193. ges 'ī, I see.

Fig. 194. nūl 'ī, you look.

Fig. 195. nūl 'ī, you two look.

Fig. 196. nū was 'ī, let me look.

Fig. 197. ī gī 'ūs a, do you see?

Fig. 198. e wō 'ūs a, do you two see?

Fig. 199. ye 'ī, he saw it.

Fig. 200. ye he 'ī, they two saw him.

Fig. 201. da ye he 'ī, they saw him.

Fig. 202. e gī tī, we saw it.

Fig. 203. nī wūl 'ī, let us look.

Fig. 204. ya ẓel tēsī, for him she made.
-ya, to make, to do.
al ya, some one made it.
a ts’e dil ya hwū, he did it to himself. 21, 20.
Cf. Hupa, auw di yau, I did.

-yā, -yai, to travel, to go; used of one person only.
na ɔ̀i ya, I went. 17, 1.
ye dún ní ya, come in. 27, 1.
ní ní ya, he came. 25, 3.
tù ya, let him walk. (Fig. 186.)
xa gin yai, he went out. 45, 4.
xa ðe ya, he went up. (Fig. 172.)
na ðes dja, I went back. 44, 4.
Cf. Hupa, te sē yai, I went away; Kato, te’ nûn yai, he came there;
Jicarilla, xō ya*, let him come.

-ya, -yā, to know.
e kō des ya, I may know. 37, 21.
kwa des yā, I know. 30, 14.
he kō del ya ní t’a, he knew. 31, 14.
he kō de dja, they knew it. 20, 18.
Cf. Hupa, xō wūt xo wes yûn te, I will watch her; Jicarilla, ‘at-
da gōs yā*, they noticed them.

-yā, to grow, to pass through life.
el gel yā ní t’a, they were the same age. 32, 4.
na ðil yā, we raised. (Fig. 218.)
da ní yā t’a, (stones) were growing. 20, 20.
Cf. Hupa, dō xoî nes yan, he did not raise it; Kato, nes ya ni-
kwa nañi, it had grown.

-ye*, -yī*, to be named, to be called by name.
hūl ye*, he is named. 25, 18.
hūl yī*, is called. 45, 14.
Cf. Kato, ðl yī bûn dja*, shall be called.

-yez, -yūs, to break, transitive, and intransitive.
na dī yez, she broke it. 18, 18.
ge yūs, he broke it. 22, 11.
Cf. Kato, te’ gūn yic, he broke it.

-yū, -yūl, to pursue, to chase.
nai yîn te yū, he chased again. 22, 17.
da nē yū, he chased. 44, 12.
se nē yūl hū sa, are following me. 19, 8.
Cf. Hupa, tce min niñ yōt dei, he drove out (a deer); Kato, būn ti-gi yō, they chased it; Jicarilla, na gō n yō, they chased.

-na, -nai, -na, to live, to be alive; but not used of residing.

e det e ginl nai, with him you are alive. 26, 1.
wō na t' a, he will live. 11, 20.
wūs na hi le' si', I will not live it is. 36, 18.
he na' ni t' a, was living. 44, 1.
na ges da' wa li, I may live. 36, 21.

Cf. Jicarilla, na xi n da, alive; Navajo, xi na, he is alive.

-na, to beat, to win from one in a contest.

nō nel na, he beat. 33, 8.
hō nel na wa le si, if he beats him. 33, 12.

-ne, -na, to do, to treat a person in a certain manner.

e kwa a ne ne, do that. 28, 6.
was ga na hī le', what shall I do? 23, 11.
ye ga na hī le', he did not do anything. 35, 16.
wō na sūn na, do not bother. 26, 3.

Cf. Hupa, a in nū, he did.

-ne, -nūk', -na, to move something alive.

se ts'un ti ne, throw to me. (Fig. 209.)
ne ts'un tūs ne, I am going to throw to you. (Fig. 211.)
na te nūk', he threw down (man). 12, 21. (Fig. 210.)
na de nūk, he turned over. 24, 15.
na ye te na, he threw her. 27, 3.
xa gī nūk', she took out (a trout). 15, 18.
te ēt dūk', we threw. (Fig. 213.)

-ne, -ni, to speak.

ai yel ni, he said. 15, 4.
āl ne k'e t'a, he found she spoke of. 36, 6.
e kwal ni, he told. 25, 5.
sel ni th'e, I heard her say of me. 31, 8.
he dni, he said. 23, 10.
hōl ni, he told the story. 30, 15.
de si', I said.
a di, he spoke. 25, 17.

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1 The stem is changed to -da, by the third modal t- which having caused this change no longer appears.

2 The n of the stem is changed to d by the first plural prefix t.

3 The d is due to the prefix d which appears in he dni and in other languages as is shown in the examples given below.
Cf. Hupa, a den ne, he said; Kato, tc'n ni, he said; Jicarilla, 'a-dn ni na, he spoke.

-ni, to flee (?).
  ði ye hel ni, he ran away.  22, 3.
  ði ye tel ni he dja, he ran.  22, 4.
  ant hwüs ni, I am going to leave him.  19, 19.

-la, -le, -La, -Le, to do, to make.
  a yin la, he made it.  13, 14.
  as la, I make.
  a hön la ü, they made.  29, 15.
  ts'a la ge hwü, when he tried it.  21, 15.
  a yü le hwü le, she could not.  40, 9.
  e kwa sin le, you do it.  38, 3.
  a was le, let me make.
  e kwa nüs le hĩ le' ni la, I would not have done it.  14, 2.
Cf. Hupa, a teil lau, he did it; Kato, di kwa'laq, he did this way;
  Jicarilla, 'ai yin la na, he made.

-la, -lai, -let, relating to the position or movement of two or more ob-
  jects or of something like a rope.
  ye ga ni la, he gave her.  40, 5.
  ni ni la, she brought (pieces of metal).  20, 14.
  da te' lai, lay (something).  34, 14.
  te' te la, he took out.  25, 15.
  gin let, you carry (a rope).  10, 3.
  te lai, lies there.
Cf. Hupa, ye tcë wil lai, he took them in; Kato, ü na tc'e na lai,
  her eyes she took out.

-lal, -Lal, to dream, to sleep.
  in te' lal, he is asleep.
  nĩ ginL lal hĩ k'e, he was sleeping.  8, 12.
  hĩ te' lal, he is asleep.
Cf. Hupa, kin na is lal, he dreamed; Kato, n tes lal, he went to
  sleep.

-li, -lî, -le, to be, to become.
  wa le, will be.  33, 12.
  was le, I will be.  33, 18.
  na ga dle, he has changed.  16, 14.
  hen li wa li hĩ k'a*, will be.  32, 5.
  hes lũ, I was.  30, 16.
hes slin hi t'a, I became because. 40, 16.
he ðe li', he became. 32, 12.
da ðin le, were. 45, 12.
Cf. Hupa, ya is len, both became; Kato, s'ús liñ', he became;
Jicarilla, gós li na, became.

-li, to flow;
  te li, flowing. 12, 6.
Cf. Hupa, tce wes lin te, it will flow out; Kato, na na gûl li ne, it
  runs down; Jicarilla, n li, it flowed.

-lû, -lû, to be caught in a net, or noose.
  ts'e lû, he was caught. 21, 3.
  t'a he lû, he was caught. 30, 11.
  da ðes lû, I was caught. 31, 4.
Cf. Hupa, te il loi, he ties together; Kato, nas li', he tied up;
  Jicarilla, ts'is lô', they lassoed; Navajo, dji lô, he caught
  with a rope.

-lû, -lûk, to lead by the hand.
  ye dai ye nî lû, when he led him in. 39, 10.
  dze de nûs lû, I will lead you. 40, 11.
  ye te lûk, he led him. 39, 10.
Cf. Hupa, an te lôs, she dragged back; Kato, tc't te lôs, he led;
  Jicarilla, na da ses lôs, they led back; Navajo, yin lôs, he led.

-la, to lick with the tongue, to bite.
  hin la, lick her (said to a dog).
  nô nes la, I bit it. 31, 2.

-l'i, to fall. Plural.
  na gî l'i, (many tongues) fell down. 16, 20.
  na gî l'i hô yî k'e lô, they had fallen. 29, 9.

-l'ôn, -l'ûn, -l'û, to tie, to knot, to put on clothes.
  ye ðe de l'ôn hwû, when she tied around herself. 38, 5.
  nai ye l'ôn, she put on his clothes. 16, 5.
  na sî l'ûn, dress me. 16, 5.
  be ðe res l'ûn, I tied around me. 38, 2.
  da in l'ô hi k'e t'a, he had set snares. 21, 2.
  be de l'û, he tied to. 7, 1.
Cf. Hupa, na ki's Lôn, she made baskets; Kato, ð' Lô, braid (plu.
  imperative); Jicarilla, be is l'ô gô, bundles.

-ðet, -ðet', to stay at a place, to remain, to reside; used in the singular
  and dual only.
Fig. 205. *nas ðet*, I stayed.

Fig. 206. *na ne ðet hwú sa*, did you stay?

Fig. 207. *na hi ðet*, we two stayed.

Fig. 208. *na hi de*, we stay.

Fig. 209. *se ts'ún ti ne*, to me throw.

Fig. 210. *na te nûk*, he threw.

Fig. 211. *ne ts'ún tûs ne*, to you I throw.

Fig. 212. *se ts'ún ti nûk hwú sa*, to me did you throw?

Fig. 213. *te ði dûk'*, we throw.

Fig. 214. *ne ts'ún te wû de*, to you let us throw.

Fig. 215. *ge 'as*, they two are walking.
na he θ'et', they lived. 8, 7.
na gin θ'et', he stayed there. 13, 11.
na ne θ'et hwū sa, did you stay? (Fig. 206.)
na hi dθ'et, we two stayed. (Fig. 207.)
nas θ'et, I stayed. (Figs. 6, 205.)
Cf. Hupa, da nin tsa, sit; Kato, nūn sat, sit.

-θ'et, to wake up.
c'e'ez zin θ'et hwū, when he woke up. 8, 11.
Cf. Hupa, tce in sit, he woke up; Kato, tce'sūt, wake up.

-θī, -θī, -θ'et, -θ'et, to kill; used with singular object only.
la se nī θ'ī xa, kill me. 38, 4.
le ga wūl θī i le', you did not kill. 13, 7.
la ga wal θī, we will kill him. 24, 16.
le gūn nī θ'et', I killed (one lynx). 43, 17.
le ga nīl θ'et'sī', I killed. 37, 14.

-θī, -θe, to eat up.
wū θī sūn na, do not eat. 7, 7.
be ga te ū θe, you leave in eating. 7, 8.

-θūn, -θūn, -θen, -θen, to think.
ye nes θūn nī, I think. 29, 4.
ye nī θūn t'a, he thought. 40, 8.
ye nī θen, she thought. 18, 17.
ye nī θen hi t'a, because he thought. 21, 8.
ka nai ye ne θūn hwū, she was hunting for (lice). 24, 2.
Cf. Hupa, ai ne sen, I thought; Kato, dō kw ne sūn, I was insensible; Jicarilla, 'aī nī sin da, I think about; Navajo, nī sin, I think.

-θūθ, to pull repeatedly.
ge θūθ, he pulled repeatedly. 11, 8.
wō θūθ, pull several times. 11, 6.

-θa, to find something animate when there are tracks or others indications to follow.
hirł. θa hī k'e da, they found it. 18, 1.
dil θa lō sai, they may find. 15, 2.
Cf. Hupa, xōv tsan, I saw him; Jicarilla, yil tsa na, he found.

-θ'et, to fall.
yail θ'et hoi yī, was falling. 7, 15.
na ts'el θe di, when he had fallen. 11, 10.
Cf. Hupa, nal tsit, it fell; Kato, nōl sūt, he fell.
-θet, -θet', to play; used of the playing of children.
   se na was θet, I will play. 16, 6.
   sūn na θet', he had played. 17, 8.

-θi, to dig, to insert in the ground or snow.
   ye yint θi hwū, when they dug. 9, 2.
   na tc'e del θi, they have put up sticks. 29, 20.
   t'a da din θi', he stuck on. 12, 7.
   Cf. Jicarilla, yī zī na, she pushed (ashes each way).

-θûk', to smoke tobacco.
   hō dū θûk', let us smoke. (Fig. 191.)

-θi', (-θ'i), to recognize or to know a person.
   nai yūr θ'i ū, she recognized him. 39, 20.
   na yūl θi', she recognized.
   Cf. Hupa, tōol tsit, he knew it; Kato, dō ēl tsūt de, we did not know him.

-θ'e, -θ'ûk', -θûk', to hear.
   e dī θ'ûk' hi le', they did not hear it. 29, 20.
   ye dī θûk', he heard. 31, 15.

-θ'e, used as a suffix to many verbs.
   Cf. Hupa, an tsū, he heard it cry; Kato, na ya' dī ts'eg, they heard again; Jicarilla, bī dō ts'a na, she heard; Navajo, tī dī-

θ'i, to sit; used in the plural only.
   1 zel θ'i hī k'ūl lai, sitting. 28, 17.
   de 6īl θ'i, we are sitting. (Fig. 164.)
   Cf. Hupa, ya del tse, they were living.

-zæ, -ze', to hunt an animal.
   na was zæ', I am going to hunt.
   tēl ze, he hunted.
   Cf. Jicarilla, i je, they hunted; Navajo, hal je, he is hunting.

-zel, -zel, -zil, to shout.
   ne zel, shout.
   e l ts'un na θe zel θ'e, he heard shouting in a circle. 10, 11.
   he zil he dja θ'e, he heard him shout. 22, 5.

-zit', to kill; used with a singular object.
   le gal zit', he was killed. 28, 10.
   la gal zit' wa li, they had killed it, or it was killed. 23, 19.
-zūs, to drag.
ka da hi zūs hoi yī hi k'e, they had been dragged (on the snow).
10, 13.
Cf. Jicarilla, n ke n cō na, they began to drag it; Navajo, yō cōl, he is dragging it.

-sai, -sa, -caL, to go, to travel; first person singular only and probably
the result of s, the prefix for that person, contracting with y
of the stem -ya, -yai.
xa wa sa, let me go up. (Fig. 173.)
be ka wa sai, I will go for them. 36, 5.
tū sa, let me walk. (Fig. 187.)
ge caL, I walk.
Cf. Hupa, na hwa, I will walk; Kato, na ca', I will go about; Jicarilla, na ca', I go about; Navajo, na ca, I go.

-ca, -sa, -ce, to rear a child; see -yān, to grow.
ye ne ca, he raised him. (Fig. 217.)
nī ca', I raised a child. (Fig. 216.)
ye na ca', she raised him. 14, 10.
nū ce, raise it. 30, 14.

-si, -dji, to stand.
θū si, stand. 45, 14.
θi dji, he stood. 45, 15.
Cf. tce i yen, he always stands; Kato, tc' siī ūn gi, he is standing;
Navajo, sī zī, he is standing.

-xel, the passing of night, relating to darkness.
seL ginL xel, it gets dark with me.
ginL xe lū, at night. 8, 11.
gint xel, it got dark. 19, 4.
Cf. Hupa, wil weL, at dark; Kato, gūl ge le, it was getting late;
Jicarilla, tca gōL xel gō, when it was dark; Navajo, tca haL-
xel, dark.

-xōs, to tickle with the hand.
xel xōs, he tickled. 21, 14.

-xūl, -xūL, -xal, to use a club, or to move a long stick.
ginL xūl, he struck. 13, 22.
θi dinL xal, you throw a stick in the fire.
Cf. Hupa, na nel wal, he struck; Kato, nūn sūl gal, you hit;
Jicarilla, yī ninL xal na, he struck him; Navajo, bīL ji dic hal, I hit (with a stick).
-be, -bet, -bi, to swim.
  tūs be, let me swim.  (Fig. 168.)
  ge be lī, he swam.  34, 2.
  te bī, he swam.  34, 6.
  nūθ ąl bī, I swam there.  (Fig. 167.)
  Cf. Hupa, nauw me, let me swim; Kato, nī bī ne, I swim; Jicarilla,
  nac be, I am going to bathe; Navajo, n se bī', I swim.

-bent, to rise; said of a stream.
  hil ben't, water rises.

-da, -dai, to sit, to remain; used in singular only.
  ne da, she sat.  19, 14.
  ąe da, he is sitting.  14, 14.  (Fig. 160.)
  ąe dai, he sat.  14, 9.
  be ga nūs da, I will sit by him, I will marry.  8, 10.
  Cf. Hupa, sit dai, he lived; Kato, ści dai, I sit; Jicarilla, ne da,
  I sat; Navajo, ści da, he is sitting.

-da, -dai, to travel; used of the singular only.
  nī da, he walked.  26, 13.
  a gin dai, go home.
  Cf. Hupa, na wit dai, he went; Kato, tc'e na gūt dac, he came up
  again; Jicarilla, yīh ha na dai na, he went.

-dā, to sew.
  na na was dā, let me sew it.
  na naL dā', she sewed up.  27, 12.

-daθ, -daθ, to burn, to singe:
  he daθ, he burned.  32, 9.
  he daθ, he singed.  32, 10.

-de, -dī, to kill; used in the plural only.
  ye nīl de, he killed.  43, 3.
  ƚe gun nil de', we killed.  44, 3.
  e ȷūn ƚa ga was di, caribou I am going to kill.

-de, to stay, to remain; plural only.
  na hi de, we stayed.  (Fig. 208.)
  na gi de', we stayed.  43, 15.

-de, to wash.
  na ginL de hwū, she washed (his face).  8, 6.
  Cf. Kato, te' na tc'ūs dēg, he washed it; Jicarilla, be na tcīl de,
  he bathes it.
-de, to dig with spear.
   na tse de*, he chiseled (for a beaver). 12, 15.
   ga na gi de, we worked at (a beaver house). 44, 8.

-del, -del, -dil, -dil, to travel; used in the plural only.
   â te ði del, we started back. 44, 14, 9.
   na ði del, we traveled. 44, 10.
   ye dûn nî dil, we went in. 44, 17.
   xa ði dil, we went up (Fig. 175.).
   wô' dil, you (plu) walk (Fig. 184.).
   se dil, all moved. 15, 7.
   Cf. Hupa, wei dit, we will go (dual and plural); Kato, ka si del*,
   we came up (dual only).

-del, -del, -dil, to eat.
   ye k'e el del, he ate all of two fish.
   hes del si, I eat. 11, 13.
   hel dil hoi yi nî t'a, he used to eat (all) up. 18, 13.

-del, -del, -dil, -dil, to throw.
   ye tel de li, she threw them. 10, 21.
   a te wûn tel sún na, do not throw. 12, 9.
   ye tel dil, he threw. 26, 11.
   na ye tel dil, he threw them back. 26, 12.
   Cf. Kato, de t gûl del* kwan, he had put in the fire.

-di, to be none.
   he di*, we had none. 44, 3.
   dô di hoi yi, there was nothing. 21, 3.
   Cf. Hupa, ñ din, without.

-di, to speak; see -nî, above.
   'a di, he spoke. 25, 19.

-dûg, uncertain.
   hût dûg î t'a, he went through. 23, 21.

-dlî, -dlî, -dlû, to be cold; said of a person.
   ðes dlî si, I am cold. 22, 6.
   he dlî t'a, because he was cold. 22, 7.
   be ke û dlû he, let them all freeze. 14, 19.
   Cf. Navajo, yîc dlô, I am cold, si* ni dlî, I am cold.
-dlō, -dlōk', to laugh.
   na de dlō e, they laughed. 239.
   na na e de wū dlō hi, let us laugh. 8, 8.
   na dai e dlōk'θ' e, he heard laugh. 8, 3.
   na dai i dlōk' ti'a, they laughed. 23, 1.
-tā, -tā', relating to the position or motion of a long object.
   ye ga ni tā ū, he gave her. 40, 5.
   ni ni tā', he brought. 9, 2, 4.
   na was ta i le', I will not lend it. 34, 4.
   Cf. Hupa, xō wa in tan, he gave her; Kato, te'cn tan, he took out;
   Jicarilla, be n dec n ka na, he leaned a gun against; Navajo,
   can tī, give me (something long).
-tas, to shoot with bow and arrow.
   ye giniL tas, he shot. 9, 21, 20.
   hwūniL tas de', if you shoot. 7, 10.
-tal, -tūl, to break; said of a string or line.
   ʔel tal, (the string) broke. 29, 6.
   heL tūl hoi yī, kept breaking. 10, 9.
   ʔel ta, I broke. 31, 2.
-tez, -tes, to be in or to assume a reclining position; used in dual and
   plural only.
   ne tes, they two lay. 8, 11.
   ze tez, they two lay. 7, 2.
   na nete te zū, when they were asleep. 13, 19.
   Cf. Hupa, tsis tetc, they were lying (dual and plural); Jicarilla,
   nūn na kec, you two lie down; Navajo, si tec, we lie.
-te, -tī, -tin', to be in or to assume a reclining position; used in the singular only.
   was te hī le', I will not sleep. 12, 17.
   ne tī', he lay. 24, 1.
   ʔel tin', lies dead. 17, 6.
   Cf. Hupa, sit ten, she was lying; Kato, nes tīn, it is lying; Jicarilla,
   n ke, lie down; Navajo, nic te, I will lie.
-tī, -tī ne, -tel', to move an animate thing or its remains.
   ce giniL tel', take me. 15, 11.
   ni nīl tī', he brought. 13, 5.
   ye tel ti ne, carried him. 17, 17.
   Cf. Hupa, na tel ten, he took it along; Kato, nūn s'ūs tīn, he
   picked him up; Jicarilla, n tc'il ke, he places it; Navajo,
   ca niL te, give me (something animal).
-t'i, to talk.

da yal t'i ê ni, you I heard talking. 9, 5.

Cf. Jicarilla, ya daL ki na, they began to talk; Navajo, yal t'i.
he is talking.

t'-a, to love.

ye ga ye nî ge t'-a, loved him. 40, 9.

-tUel, -tëiL, -teL, to strike, to chop.

was teL, let me hit with an axe.

yût teL, he hit it.

de gün nî teL, she cut a hole. 15, 16.

Cf. Hupa, dje wil tesL, he pounded it.

-ts'i, -si, -tsin, to take away, to carry.

nai yel ts'i, she took. 20, 9.

na ël si hwü, when he took. 24, 10.

na nà yel ts'in, he took him again. 26, 16.

-ts'i, -ts'i, to make.

thîL ts'i hwü sa, did you make it?

èl ts'i', she made. 10, 22. (Fig. 204.)

e deL ts'i hwü, when he made himself. 23, 20.

Cf. Hupa, a ël tecL, make it.

-tcu, to seize, to take hold of.

hinL tcu, he took. 35, 13.

yîL tcu wî, I took it. 38, 2.

Cf. Hupa, tecL kit, he took hold; Kato, yîL tcût, he caught it;

Navajo, yî yîL tcôd, he took hold of it.

-tsûn, -san, to smell; both transitive and intransitive.

des san de, I would smell. 33, 1.

éte tsûn ya ze, smells a little. 37, 1.

Cf. Kato, ye gün tcûn, he smelled it; Navajo, yîc tcûn, I smell.

-tcuô, -tcûô, -tcûL, referring to a flat flexible object, like cloth or dressed skin.

thêL tcûô, it (cloth) lies.

da thêL tcûô, he hung up. 22, 9.

dze deL tcûô, she took it along. 10, 22.

Cf. Hupa, sil kyôs, it lies; Kato, naL tcôs, she put it; Jicarilla,

ka na yîL tsôs, they put it in water again; Navajo, ca nit-

-tsôs, give it to me.

-t'ê, -t'ôk', to be ill tempered, to be angry.

hil, t'ê t'a because he was angry. 45, 18.
höl tc'ök', he is angry, 34, 12.
Cf. Kato, tc'ūn gûn tce', he is angry; Hupa, ta kil kû (personal name) a man of harsh temper.

-ts'i, to blow, of the wind.

nîl ts'i, it blew. 43, 5.
Cf. Hupa, xô dan tce, it blows; Kato, wa nûn tcî bûn, it will blow through; Jicarilla, nî tc'î, whirlwind; Navajo, nî tc'î, wind.

-ts'i, to comb the hair.

gin ts'i, she combed. 8, 6.

-tc'ûl, tc'ûl, -tc'el, to tear, to rend.

nai yûl tc'ûl, let him tear it up.
na tc'e dîl tc'ûl xoî yi, he used to pull up. 35, 7.
na gin tc'ûl, were torn. 27, 11.
be nai yû 'il tc'el, he pulled her clothes off. 10, 14.
Cf. Hupa, dje wiî kil, he tore away; Kato, dje kûl tcûl, split it.

-tsûk', -ts'a ge, to cry.

he ts'ûk' hwû, when he cried. 24, 1.
tsa ge de, crying. 8, 15.
Cf. Hupa, win tcwû, you have cried; Kato, ûc tcî ge, I cried;
Jicarilla, xa tc'i tc'a, they cry; Navajo, yî tca, he is crying.

-t'a, to swear, to curse.

na dô de t'a de, if she swears. 9, 10.
na dô de t'a ð'e, he heard her swear. 10, 10.

-t'a, -t'ai, -t'ak', -t'ûk', to fly.

na wôn t'a, you (will) fly across. 12, 5.
na ge t'ak', he flew down. 12, 13.
nî t'ûk', flew there. 11, 16.
dji de ne t'ai, fly around. 12, 7.
Cf. Hupa, na win tau, it (fog) will settle down; Kato, nûn t'ag, it flew; Jicarilla, nac t'ai, I fly; Navajo, yî t'a, it is flying.

-t'að, -t'að, to cut.

na was t'að, I am going to cut.
k'e nî t'a ðû, when he cut off.
Cf. kit te tâts, he cut them; Kato, yîs t'âts, he cut it; Jicarilla,
k'e i t'as, they cut off; Navajo, is t'âs, I cut.

-t'e, -t'i, to be, to have the nature or property of a certain kind.

an t'e hi k'e, it was. 20, 9.
e kwa an t'i, that kind. 31, 13.
Cf. Hupa, a in te, how he appeared; Kato, ac t'ë, I am; Jicarilla, ci 'a t'ë', my nature; Navajo, a nic t'ë, I am.

-t'ëθ, to roast on the coals.
neI t'ëθ, you roast, 17, 13.
,diš t'ëθ, I will roast. 31, 8.
Cf. Jicarilla, yil t'is, they roasted; Navajo, is t'es, I cook.

-t'ëθ, -t'ëθ, to step:
da de wü t'ëθ sün na, do not step. 7, 11.
da de t'ëθ, he stepped on. 7, 14.
aZe t'ëθ, he took steps. 45, 15.

-t'es, to make a pile.
de nüI t'es, pile up. 26, 5.
de nil t'es, they piled it up. 26, 5.

-t'i, -t'in, to do anything.
'as t'i, I did it. 14, 3.
'a t'in hi le le sä', perhaps he did it. 18, 2.
Cf. Hupa, a ya ten, they did it; Kato, kwac t'ïn, I did it; Jicarilla, ac t'i ñuI, I do; Navajo, ac t'i, I did it.

-t'i, to drink, or eat.
cin ne t'i, you drink (Fig. 169.).
ci wac t'i, I eat (Fig. 180.).
cet hi t'i, he was still eating. 20, 2.
be ga ce ges t'i ñuI, if I eat. 36, 3.

-t'üc, to hew (?)
neI t'üc, take off bark. (Fig. 241.)
wac t'üc, I will take the bark off.

-ga, -xä, to make several things.
ne ga, you make. 16, 2. (Fig. 133.)
yi gi ga hüI, she made. 16, 4.
was xä, I made them.

-gal, -gai, -gai, to travel; used in the singular only.
gin gal, you walk. (Fig. 182.)
ge gal hoI yi, she was walking. 19, 5.
xa ðin gai, you go up (Fig. 174.).
e gin ni gai, go to it. 10, 4.
Cf. Hupa, na wa ye, he went; Kato, na ga kwan, he had walked; Jicarilla, dac di gai gô, when one walked by; Navajo, na ga, he is going about.
-ge, to travel on four feet; used of animals only in the singular.
ye gûn nil ge, (a wolf) came to her. 18, 17.
ha gel ge, it (squirrel) ran out. 23, 18.
ta da nal ge, he ran around. 33, 10.

-gel, to kill.
e Let ts'el gel he na t'î hwû, when they fought. 24, 19.
be ke el gel, he killed all. 31, 18.
Cf. Hupa, tcis siL we, he killed; Kato, sel giû, he killed; Jicarilla,
yi yes xî na, they killed; Navajo, yi yis xî, he killed.

-gî, -xe, -gîn, -gel, to carry on the back.
nû wûs xe, I am going to carry it. 19, 21.
na te gi, he carried. 21, 10.
ye te gîn, she carried him. 15, 12.
ye gel, she carried him on her back.
Cf. Hupa, tee wel, he was carrying; Kato, te't tes gin, he carried;
Jicarilla, nac xe, I carry; Navajo, nac gêl, I carry.

-ge, -gwi, to puncture, to spear, to prick.
e ge hoi yi lo sa', something might stick. 33, 2.
ca i ge de, something might stick through. 33, 4.
yû ge he dja, she speared them. 19, 15.
sîn gwi, spear me. 28, 6.
Cf. Hupa, ya xo q6t, they stick them; Kato, ya* tc'ôn ge, they
speared; Navajo, ya* il ged, he stabbed him.

-ge@, -djet', -djît, to be afraid.
i tc'a he te ge@, they were afraid. 35, 19.
nel djet', he is afraid. (Fig. 222.)
ye te'ûn nel djît hi le hwû, he was not afraid. 35, 11.
ye tc'an nel djîz hi le, he was not afraid. 35, 14.
Cf. Hupa, yin nel git, he was afraid; Kato, wûn tûl gûc ún, they
might be afraid; Jicarilla, be ne gô dzî na, they were afraid
of him; Navajo, yi nal dzit, he was afraid.

-gûl, to creep.
gel gûl, it is creeping.

-kai, to be light, to become day.
yel kai la dja de', if it is day. 11, 15.
Cf. Hupa, ye il xa, mornings; Kato, dô yiL kai, not day; Jicarilla,
yis ka na, it dawned; Navajo, ha yiL kà, it is dawn.
Fig. 216. nī ca', I raised it.

Fig. 217. ye ne ca', he raised it.

Fig. 218. ne θi lyā, we raised him.

Fig. 219. nū cā, you raised it.

Fig. 220. nī ges djēt' I am afraid.

Fig. 221. nī gl djēt hwū sa, are you afraid?

Fig. 222. nel djēt', he is afraid.

Fig. 223. ne war. djēt ū sa, are you afraid?

Fig. 224. ne gl djēt', we are afraid.

Fig. 225. da nel djēt', they are afraid.

Fig. 226. nī nī 'ā, I brought.

Fig. 227. nī nī 'ā, he brought.
-ke, -kai, to follow tracks, to trail.
  ye tel. ke, he tracked them. 9, 18.
  na te ðil ke, we followed the tracks. 45, 11.
  tel. kai, they followed. 18, 5.
  Cf. Hupa, tcit tel. xa, he tracked it; Jicarilla, n ke dac nL ka na,
    they began tracking him; Navajo, nL ka, he is tracking him.

-ke, to sit; used of the dual only.
  ū ke, we will sit. 25, 9.
  ðe ke, they two sat. 27, 2. (Fig. 162.).
  Cf. Jicarilla, na’ ke, you two sit down; Navajo, sī ke, they two are
    sitting.

-keθ, to fall.
  na set. keθ, he fell. 21, 20.
  da θe keθ de’, if it sticks in tree. 7, 10.
  Cf. Hupa, nō niñ xûts, something fell; Kato, wal kût, it fell through.

-kí, to paddle a canoe, to travel by canoe.
  ta kí hwû, when he paddled. 23, 1.
  ye gün nī nī kî, he met him. 24, 9.
  Cf. Hupa, tañ xen nei, the canoe went away.

-kōs, to jump.
  na gal kōs, jumps. 33, 6.
  na tsel kōs, he jumped. 13, 1.

-kût’, to slip.
  ye ges kût’, I slipped under. 30, 5.

-qōt, to spear.
  na qōt’, he speared. 13, 2.
  he qōt, he speared. 8, 12.
  Cf. Hupa, ya xōs qōt, they stuck them; Kato, ūñ qōt, spear it.

-k‘a, to build a fire, to burn, to cause to burn.
  xo dīl k‘āi, build a fire. (Fig. 163.)
  xo del k‘ā, he made a fire. 22, 8.
  xo de ðil k‘ā, we made a fire. 45, 8.
  nī da re k’a hi k’ûs e, partly burned sticks. 15, 11.
  Cf. Hupa, wil kan nei, a fire was burning; Kato, ūl k’añ, make a
    fire; Jicarilla, n den n k’a na, it burned so far; Navajo, a dī-
    k’añ, burned.

-k‘eθ, to shoot with a gun.
  yūl k‘eθ i t’a’, he shot them. 43, 3.
VERBAL SUFFIXES.

As will appear from the comparative material presented, the greater number of the prefixes and stems are found in languages other than the Chipewyan. The suffixes with one or two exceptions, however, are not found on the Pacific Coast or in the Southwest. It seems probable that they are recent developments in Chipewyan.

-ı le, -hi le, renders the preceding statement negative.
   a wö le hi le, you will not do to him. 11, 20.
   wüs na hi le' sí, I will not live it is. 36, 18.
   ne tca hi le t'a, because he was not large. 33, 10.
   ni dja hi le t'ü, he had not come. 21, 5.

-wa li, -wa le, used in future or conditional statements in which some doubt exists.¹
   na ges da' wa li sí, I will live. 37, 21.
   na gin da' wa li, you will live. 36, 2.
   hö nel na wa le sí, he beats. 33, 12.

-ni, seems to be used as a relative, making a clause of a verb.²
   la gal de' ni, which he had killed. 10, 21.
   te del ni, who came. 26, 1.
   na òe ya ni, when he went again. 27, 15.
   ge gal ni, as he walked. 8, 1.

-ni t'a, used of emphatic statements of observed past facts.
   el gel yá ni t'a, they were the same age. 32, 4.
   na ðet' ni t'a, he lived. 24, 5.
   na te dit ni t'a, ducks were flying about. 42, 17.
   se ne 'ı t' ni t'a, stole me. 37, 12.

-hi t'a, similar to the last in force but apparently used of present facts.
   al 'in hi t'a, she carried. 10, 9.
   ðin da hi t'a, (why) do you sit here? 37, 11.

-lö sa', indicates the probability of a future event.
   na ne nel tì lö sa', I may carry you back. 23, 11.
   e ñe hoi yi lo sa', something might stick. 33, 2.
   le ga de ni ðet' lö sa', suppose you might kill yourself. 33, 4.

¹ Perhaps a verb from the stem -le, -li, -lin, to be.
² Probably a suffix which means "person" used in some other Athapascan languages to make nouns of verbs.
-θ'e, to discover by hearing.
   nǐ nit az θ'e, he heard (wolves) come.  8, 16.
   sel ni θ'e, I heard her say of me.  31, 8.
   Cf. Hupa, a den tsū, he heard singing.

-si', used of emphatic statements to correct a misapprehension or the
   ignorance of the hearer.
   nǐ nī la sī', I left it.  10, 2; 9, 9.
   le ga nit θet' sī', I killed.  37, 14.
   le ga wūd sī le θet' sī', we will not die.  15, 5.
   ñes dli sī, I am cold.  22, 6.

-sūn na, used with imperative giving it the negative force of prohibition.
   ye ne wūn sī sūn na, do not think.  12, 11.
   wū sī sūn na, do not eat.  7, 7.
   tī wa ya sūn na, (do not) let go out.  28, 3.

-he dja, marks a definite stage of the action or development of the verb
   to which it is suffixed.1
   ye k'e na de he dja, when they fought.  23, 19.
   na tset he dja, he became strong.  35, 5.
   ne tca he dja, he became large.  33, 19.
   na te gwī he dja, (their horns) stuck up.  19, 17.

-hī k'e, -k'e, used to indicate that the act was discovered by traces
   or other evidence after it transpired.
   tel as hī k'e, had gone along.  9, 19.
   ne i k'e sī, he is stealing.  36, 11.
   nal 'ais hī k'e t'a, were crossing.  20, 3.
   na de dlōk' hī k'e t'a, laughed.  23, 5.
   a da di k'e, wolves were talking.  9, 5.
   al ne k'e t'a, he found she spoke of.  36, 6.

-hī k'ūl la, -hī k'e la, used with statement of a fact inferred from a suc-
   ceeding fact or a result.
   na tel dja hī k'ūl la, he went again.  17, 17.
   lo gūn nil de hī k'ūl la, she saw he had killed.  17, 8.
   na' da' i k'ūl la, she was sitting.  24, 3.
   da ni yā hī k'e la, were grown.  7, 3.

-hoi yi', -hoi yī, used of customary, repeated, or continuous acts.
   yail ñet hoi yī, was falling.  7, 15.

1 This suffix seems to be a verb meaning "to become."
-hwū, -ū, in most cases seems to subordinate a temporal clause.

ye nē hwū, when he said. 25, 4.
ye nē hwū, when I thought. 31, 7.
ye dūn ne 'a zū, when they went in. 35, 10.
nē ni yau, when he came. 29, 1.

-hwū sa, -hū sa, -ū sa, interrogative; used with the second person.

i gi 'ūs a, do you see? (Fig. 197.)
se nē yūl hū sa, are following me? 19, 8.
na ne ḷet hwū sa, did you stay? (Fig. 206.)

-xa, used to indicate intention or purpose.

ye ge l yī ha, in order to carry it. 19, 19.
ha nē de le xa, they would marry. 38, 21.
be kō de dja xa, she might know it. 20, 11.
gīn na' xa i le'sī, you will not live. 37, 5.

-de', conditional future.

an te l az de, if it runs away. 9, 13.
hwū nē l tas de', if you shoot. 7, 10.
ṭīn ya de', if you go. 36, 21.
ges 'i de', if I see. 39, 19.
Cf. Hupa, au win ne l de, if it happens; Kato, ts'ūs qōt de', if he spears it.

-t'a, in most cases seems to have causal force.

nē tca t'a, he was so big because. 33, 9.
hil tc'e t'a, because he was angry. 45, 18.
ye nē ḷūn t'a, he thought. 40, 8.
wō na' t'a, he will live. 11, 20.
na tset t'a, was strong. 38; 6.

TENSES OF VERBS.

Many of the suffixes, either directly or indirectly, fix the time of the verb. The future tense in addition to a peculiar form of the root used in the present and future has a prefix ḷ- discussed above. The past tense is differentiated from the present and future in other ways not clearly traceable-
to the presence of definite word parts. The stem of the past sometimes has a glottal stop at the end where the present lacks it or has an aspiration.
ne _Printf, he stole it; ne _Printf, he is about to steal it.

The past has a sonant 1 where the present has a surd L.
ginL xeL, he struck; _Printf dinL xal, you throw a stick in the fire.

The stem sometimes has a stop or a nasal consonant or nasal vowel which does not appear in the present and the vowel may be different in addition.
 _Printf got, I speared it; wüs ge, let me spear it.
nōt _Printf bì, I swam there (Fig. 167); tüs be, let me swim (Fig. 168).

The first person singular of the past lacks the prefix s- as has been explained above; the past also often has the second modals which are not usually employed with the present. Complete conjugation systems would require many pages and would not present material other than that discussed in the preceding pages. They will be found in Father Le Goff's grammar. One example in the present and past follows:

**Present.**

na was tc'ūl, let me tear it.  na wūL tc'ūl, let us tear it.
na nēL tc'ūl, tear it.  nōL tc'ūl, you (plu.) tear it.
nai yūL tc'ūl, let him tear it.  na he yūL tc'ūl, let them tear it.

**Past.**

na giL tc'il, I tore it.  na giL tc'il, we tore it.
na ginL tc'il hwū sa, did you tear it?  na wōL tc'il hwū sa, did you (plu.) tear it?
na ye ginL tc'il, he tore it.  na he ye ginL tc'il, they tore it.

**ADJECTIVES.**

The qualifying adjectives of Chipewyan as of other Athapascan languages are conjugated for person and number. The prefixes appear to be the second modal prefixes of verbs and apparently relate to the acquisition, or the permanency of the possession of the quality named in the stem.

dε-,
del ba, gray.  (Fig. 238.)
dū we la', he is powerful.  26, 17.
ne-,  
ne zō', good. 36, 3.

θi-,  
θi baθ, round.  
θes tūn, I am frozen.

ti-,  
ti baθ, round.  
ti ćinl tūn, thick, deep. 43, 12.

STEMS OF ADJECTIVES.

-we, la, -ye la, powerful, dangerous.  
dū we la', he is powerful. 26, 17.  
dū yē la, it is hard. 37, 20.

-ye θi, male.  
de ye θi, male. 9, 15.

-neθ, -neθ, long, tall.  
ni neθ, long. (Fig. 232.)  
di neθ, long.  
di neθ i le', not long. 32, 17.  
ni ni θi la ye, top tall. 43, 2.

Cf. Hupa, tce nes, he is tall; Kato, gūn nes, it became long;  
Jicarilla, n de dzı, tallest one; Navajo, nez, tall.

-leL, soft.  
heL leL, it is soft.

-La, fast.  
nas La', I am fast.  
nal la', he is fast. 34, 2.

-L'ús, blue, green.  
de L'ús, it is blue.  
Cf. Jicarilla, da L'i dji, blue; Navajo, dō L'ij, blue.

-θō, -θōk', yellow.  
del θōk', it is yellow. (Fig. 236.)  
θūn θō i, yellow star, Venus.  
Cf. Hupa, lit tsō, green; Kato, dūl tsō, blue; Jicarilla, li tsō i,  
yellow; Navajo, li tsō, yellow.

-zūn, black.  
del zūn, black. (Fig. 226.)
Fig. 228. ne tca, large.
Fig. 229. tsū kūd de, small.
Fig. 230. ne zville', not good.

Fig. 231. le k'a, fat.
Fig. 232. nī neθ, long.
Fig. 233. ne dū e, short.

Fig. 234. le kùn, sweet.
Fig. 235. del g'ài, white.
Fig. 236. del ðök, yellow.

Fig. 237. del zün, black.
Fig. 238. del ba, gray.
Fig. 239. del k'ös, red.
Cf. Hupa, lū hwōn, black; Kato, ges l cūn', salmon black; Jicarilla, lī zi, black; Navajo, lī jin, black.

-nō', -nū', good.
ne zō', good. 36, 3.
ne zwile', not good. (Fig. 230.)
Cf. Hupa, nū hwōn, good; Kato, n cō ne, it is good; Jicarilla, n jō ne gō, it is good; Navajo, nī jūn e, nice.

-sōk', round, spherical.
de sōk', round like a ball.
Cf. Navajo, di djōl, round.

-ba, gray.
del ba, gray. (Fig. 238.)
Cf. Hupa, dil mai, gray; Kato, dūl bai, brown; Jicarilla, lī ba, brown; Navajo, la ba, gray.

-baθ, round, circular.
de baθ', round.
θi baθ ya ze, round small, snowshoes. 16, 3.
ti baθ ya ze, round small, snowshoes. 18, 7.
Cf. Hupa, na wes mats, it was coiled; Navajo, na maz, round.

-dū e, short.
ne dū e, short. (Fig. 233.)

-dli, cold (used of persons).
θes dli sī, I am cold. 22, 6.

-tūn, thick.
ti ginl tūn, it is thick (snow). 43, 12.
Cf. Navajo, di tā', thick.

-tcai, large.
ne tca, large. (Fig. 228.)
tū ne tcai, big lake. 14, 12.
Cf. Hupa, nūe kya 6, I am large; Kato, gūn tcac kwān, it had become large; Jicarilla, n tsā i, it is large; Navajo, n tsā, large.

-tsūl, wet.
be tsūl, it is wet.
Cf. Kato, na l cūl út, because it was wet.

-tc'e, -tc'ōk', to be cross, ill-tempered.
hil tc'e, he is cross.
hōl tc'ōk', he is angry. 34, 12.
Fig. 240. edj ed e ts'ū da, cow.

Fig. 241. neł t'ūc, chop off.

Fig. 242. da tcūn ke, shoe.

Fig. 243. k'es le ze, ashes.

Fig. 244. ne ba nī t'a ĭ le', to you they did not leave.

Fig. 245. ce 'a ye din. eθ he nī, my snowshoes.

Fig. 246. sa 'ai' ne ca, for me snow shoes make.

Fig. 247. e gō e tca ge, suckers.

Fig. 248. ts'e yā kwī, old woman.

Fig. 249. e dū, hot weather.
-ts'i yi, female.  
  de ts'i yi, female.  9, 14.

-ts'i, salt.  
  de nī ts'i, it is salt.

-t'aθ, sharp, pointed.  
  Өe t'aθ, rock sharp.  13, 2.

-gûn, poor in flesh.  
  be gûn, poor.

-ɡai, white.  
  dè ɡai, it is white.  (Fig. 235.)
  Cf. Hupa, tsel kai, white stone; Kato, sel gai, white stone; Jicarilla, lī gai lī, white; Navajo, la gai, white.

-kûn, sweet.  
  le kûn, it is sweet.  (Fig. 234.)
  Cf. Kato, l kûn, it is sweet; Jicarilla, lī ka, sweet; Navajo, la kan, sweet.

-k'a, fat.  
  le k'a, fat.  (Fig. 231.)
  Cf. Hupa, lūw k'au, I am fat; Kato, lka, it is fat; Jicarilla, da lī k'a e, very fat; Navajo, nes k'a, he is fat.

-k'aθ, cold; used of weather and elements.  
  ta ne k'aθ tū we, cold lake.
  Cf. Jicarilla, gös k'ats', it was cold; Navajo, des k'az, cold.

-k'ūs, red.  
  del k'ūs, red.  (Fig. 239.)
  hō del k'ūs, it became red.  33, 15.

-k'ūs, sour.  
  de nī k'ūs, it is sour.

-ka de, small.  
  ts'ū ka de, he became small.  33, 17.
  ts'ū kūd de, small.  (Fig. 229.)