

UNIVERSITY OF CALIFORNIA PUBLICATIONS - (CONTINUED)

Volumes now completed:		
	378 pages and 30 plates \$4	
Volume 2. 1904-1907.	393 pages and 21 plates	.50
Volume 3. 1905. The l	Morphology of the Hupa Language. 344 pages	.50
Volume 4. 1906-1907.	374 pages, with 5 tables, 10 plates, and map 3	.50
Volume 5. 1907-1910.	384 pages, with 25 plates	.50
Volume 6. 1908. 400 p	ages, with 3 maps 3	.50
	443 pages and 50 plates 3	
	369 pages and 28 plates 3	
Volume 9. 1910-1911.	439 pages	.50
Volume 10. 1911-1914.	385 pages and 41 plates	.50

Note.—The University of California Publications are offered in exchange for the publications of learned societies and institutions, universities and libraries. Complete lists of all the publications of the University will be sent upon request. For sample copies, lists of publications or other information, address the Manager of the University Press, Berkeley, California, U. S. A. All matter sent in exchange should be addressed to The Exchange Department, University Library, Berkeley, California, U. S. A.

- AGRICULTURAL SCIENCES.-E. B. Babcock, J. W. Gilmore, and C. B. Lipman, Editors. Price per volume, \$3.50. Volumes I and II in progress.
- ASTEONOMY.--W. W. Campbell, Editor. (Lick Observatory, Mt. Hamilton, Cal.) Publications of the Lick Observatory.--Volumes I-XII completed.
- BOTANY.-W. A. Setchell, Editor. Price per volume \$3.50. Volumes I (pp. 418), II (pp. 360), III (pp. 400), and IV (pp. 397) completed. Volumes V and VI in progress.
- CLASSICAL PHILOLOGY.—Edward B. Clapp, William A. Merrill, Herbert O. Nutting, Editors. Price per volume \$2.00. Volume I (pp. 270) completed. Volume II in progress.
- EDUCATION .- Edited by the Department of Education. Price per volume \$2.50.
- ENGINEERING.—Edited under the direction of the Engineering Departments. This series will contain contributions from the Colleges of Mechanics, Mining, and Civil Engineering. Volume I in progress.
- GEOGRAPHY .- Ruliff S. Holway, Editor. Volume I in progress.
- GEOLOGY.—Bulletin of the Department of Geology. Andrew C. Lawson and John C. Merriam, Editors. Price per volume \$3.50. Volumes I (pp. 435), II (pp. 457), III (pp. 482), IV (pp. 462), V (pp. 458), VI (pp. 454), VII (pp. 504), and VIII (pp. 583) completed. Volume IX in progress.
- MODERN PHILOLOGY.—Volumes I (pp. 400) and II (pp. 373) completed. Volumes III and IV in progress.
- PATHOLOGY.—Frederick P. Gay, Editor. Price per volume, \$2.50. Volume I (pp. 347) completed. Volume II in progress.
- PHILOSOPHY.—G. H. Howison, Editor, Volume I (pp. 262) completed. Volume II in progress. Price per volume \$2.00.
- PHYSIOLOGY.-S. S. Maxwell, Editor. Price per volume \$2.00. Volumes I (pp. 217), II (pp. 215), III (pp. 197), and IV (pp. 228) completed. Volume V in progress.

PSYCHOLOGY.-George M. Stratton, Editor. Volume I in progress.

- ZOOLOGY.-W. E. Ritter and C. A. Kofold, Editors. Price per volume for volumes I-X, \$3.50; for volume XI and following, \$5.00. Volumes I (pp. 317), II (pp. 382), III (pp. 383), IV (pp. 400), V (pp. 440), VI (pp. 478), VII (pp. 446), VIII (pp. 357), IX (pp. 365), X (pp. 417), and XI (pp. 538) completed. Volumes XII to XVI inclusive in progress.
- UNIVERSITY OF CALIFORNIA CHRONICLE.—An official record of University life, issued quarterly, edited by a committee of the Faculty. Price, \$1.00 per year. Current volume No. XVIII.

Address all orders or requests for information concerning the above publications to The University Press, Berkeley, California.

UNIVERSITY OF CALIFORNIA PUBLICATIONS

Vol. 11, No. 7, pp. 399-472

March 9, 1916

THE MUTSUN DIALECT OF COSTANOAN BASED ON THE VOCABULARY OF DE LA CUESTA

BY

J. ALDEN MASON

UNIVERSITY OF CALIFORNIA PRESS BERKELEY

UNIVERSITY OF CALIFORNIA PUBLICATIONS

DEPARTMENT OF ANTHROPOLOGY

The following publications dealing with archaeological and ethnological subjects issued inder the direction of the Department of Anthropology are sent in exchange for the publianthropology or to archaeology and ethnology. They are for sale at the prices stated, which include postage or express charges. Exchanges should be directed to The Exchange Department, University Library, Berkeley, California, U. S. A. All orders and remittances should be addressed to the University Press.

European agent for the series in American Archaeology and Ethnology, Classical Philology, Education, Modern Philology, Philosophy, and Semitic Philology, Otto Harrassowitz, Leipzig. For the series in Botany, Geology, Pathology, Physiology, Zoology and also American Archaeology and Ethnology, R. Friedlaender & Sohn, Berlin.

AMERICAN	AF	CHAE	OLOGY	A	ND	E	THNOLOG	¥Y.—A	L. L.	Kroeber,	Edi	tor	. Prices,
Volume	1,	\$4.25;	Volumes	2	to	10,	inclusive,	\$3.50	each;	Volume	11 ar	bt	following,
\$5.00 ea	ach.												

\$5.00) each.	
	Cited as Univ. Calif. Publ. Am. Arch. Ethn.	Price
V ol. 1.	1. Life and Culture of the Hupa, by Pliny Earle Goddard. Pp. 1-88;	e1 of
	plates 1-30. September, 1903 2. Hupa Texts, by Pliny Earle Goddard. Pp. 89-368. March, 1904	\$1.20
Vol. 2.	Index, pp. 369-378. 1. The Exploration of the Potter Creek Cave, by William J. Sinclair.	
VUI. 2.	Pp. 1-27; plates 1-14. April, 1904	.40
	2. The Languages of the Coast of California South of San Francisco, by	· EU
	A. L. Kroeber. Pp. 29-80, with a map. June, 1904	
	3. Types of Indian Culture in California, by A. L. Kroeber. Pp. 81-103. June, 1904	.25
	4. Basket Designs of the Indians of Northwestern California, by A. L. Kroeber. Pp. 105-164; plates 15-21. January, 1905	
	5. The Yokuts Language of South Central California, by A. L. Kroeber.	
	Pp. 165-377. January, 1907.	2.25
	Index, pp. 379-392.	14
Vol. 3.	The Morphology of the Hupa Language, by Pliny Earle Goddard. 344 pp. June, 1905	3.50
Vol. 4.	1. The Earliest Historical Relations between Mexico and Japan, from original documents preserved in Spain and Japan, by Zelia Nuttall. Pp. 1-47. April, 1906	.50
	2. Contribution to the Physical Anthropology of California, based on col-	
	lections in the Department of Anthropology of the University of	
	California, and in the U.S. National Museum, by Ales Hrdlicka.	100
	Pp. 49-64, with 5 tables; plates 1-10, and map. June, 1906	.75
	3. The Shoshonean Dialects of California, by A. L. Kroeber. Pp. 65-166. February, 1907	1.50
r	 Indian Myths from South Central California, by A. L. Kroeber. Pp. 167-250. May, 1907 	.76
	5. The Washo Language of East Central California and Nevada, by A. L. Kroeber. Pp. 251-318. September, 1907	.75
	6. The Religion of the Indians of California, by A. L. Kroeber. Pp. 319-	-
	356. September, 1907 Index, pp. 357-374.	.50
Vol. 5.	1. The Phonology of the Hupa Language; Part I, The Individual Sounds, by Pliny Earle Goddard. Pp. 1-20, plates 1-8. March, 1907	.35
	2. Navaho Myths, Prayers and Songs, with Texts and Translations, by	
	Washington Matthews, edited by Pliny Earle Goddard. Pp. 21-63.	÷ .
	September, 1907	.75
	3. Kato Texts, by Pliny Earle Goddard. Pp. 65-238, plate 9. December, 1909	2.50
	4. The Material Culture of the Klamath Lake and Modoc Indians of	
	Northeastern California and Southern Oregon, by S. A. Barrett.	e
	Pp. 239-292, plates 10-25. June, 1910	.75
	5. The Ohimariko Indians and Language, by Roland B. Dixon. Pp. 293-	1 00
	380. August, 1910	1.00
Vol. 6.	Index, pp. 381-384. 1. The Ethno-Geography of the Pomo and Neighboring Indians, by Sam-	
	uel Alfred Barrett. Pp. 1-332, maps 1-2. February, 1908	3.25
	2. The Geography and Dialects of the Miwok Indians, by Samuel Alfred	
	Barrett. Pp. 333-368, map 3.	
	3. On the Evidence of the Occupation of Certain Regions by the Miwok	7
	Indians, by A. L. Kroeber. Pp. 369-380. Nos. 2 and 3 in one cover. February 1908	.50

February, 1908 Index, pp. 381-400.

UNIVERSITY OF CALIFORNIA PUBLICATIONS

IN

AMERICAN ARCHAEOLOGY AND ETHNOLOGY

Vol. 11, No. 7, pp. 399-472

March 9, 1916

THE MUTSUN DIALECT OF COSTANOAN BASED ON THE VOCABULARY OF DE LA CUESTA

BΥ

J. ALDEN MASON

CONTENTS

	PAGE
INTRODUCTION	400
PART I. STRUCTURE	402
General Characteristics	402
Phonetic System	402
Parts of Speech	405
Nouns	405
Etymological Suffixes of Nouns	406
Morphological Suffixes of Nouns	
Pronouns	
Verbs	411
Etymological Suffixes of Verbs	412
Morphological Suffixes of Verbs	415
Adjectives	425
Particles	426
PART II. CLASSIFIED LIST OF STEMS	427
Nouns	427
Animals	427
Botanical	429
Body Parts	430
Manufactures, Instruments	433
Natural Phenomena	435
Words of More Abstract Significance	436
Terms of Relationship and Personal Categories	437
Numerals	439

	PAGE
Pronouns	439
Demonstratives	440
Adjectival Pronouns	440
Interrogative Pronouns	440
Verbs	441
Adjectives	461
Adverbs	
Locative Adverbs	466
Temporal Adverbs	466
Descriptive and Miscellaneous Adverbs	467
Interjections	468
POSTSCRIPT	470

INTRODUCTION

A century ago Father Felipe Arroyo de la Cuesta, one of the most earnest and indefatigable members of the order of St. Francis, collected a mass of 2884 words, phrases, and sentences from the language of the Mutsun Indians, spoken at his mission of San Juan Bautista near Monterey, California. At about the same time he composed a grammar of the language, which is one of the branches of the Costanoan linguistic group. These two manuscripts were sent by Alexander S. Taylor to the Smithsonian Institute, which loaned them for publication to John G. Shea, in whose Library of American Linguistics they appear as volumes IV and VIII, 1861 and 1862. Together they form one of the fullest and most complete collections of data extant on a Pacific Coast There is little doubt that the missionary knew the language. language well and interpreted its psychology and spirit fairly correctly. In his grammar there appears less strict adherence to the form and structure of Latin grammar, less subconscious premise of Latin as the standard par excellence than is generally found in grammars of this time and type. Nevertheless, in spite of the comparative excellence of the grammar, but because of its lack of scientific arrangement, unphonetic orthography, and the foreign tongue, it is deemed better to rearrange and formulate the grammar, using as a basis the phrases of the vocabulary.

The phrase-book is likewise unfortunate in that it is at present almost inaccessible to the modern student, due to its faulty arrangement. This is done alphabetically according to the initial letter of the sentence, the various stems being scattered throughout the nearly three thousand sentences. The same difficulties of unphonetic orthography and Spanish language likewise obtain here.

Several years ago Dr. Kroeber had the majority of the phrases comprising the more important of the sentences copied to a card-index. I have recently spent some time in working over the material thus secured, arranging cards according to stems and isolating grammatical particles. The following paper embodies the results of this research.

While the grammar of De la Cuesta is the most complete ever published on a Costanoan language, several more scientific treatises have been produced in the last few years, principally by the University of California. These are, "Languages of the Coast of California South of San Francisco,"¹ and "The Chumash and Costanoan Languages."² Other pertinent works are "Phonetic Constituents of the Native Languages of California,"³ "The Native Languages of California,"⁴ and "New Linguistic Families in California."⁵

The present paper consists of two parts, first an exposition of the etymological and morphological elements upon which the structure of the language is based, and second a list of the various stems of all classes found in the material, though, since not all of the phrases were transferred to cards, this does not entirely exhaust all those in the original phrase-book. These are appended partly as reference for the examples of morphological and etymological word-structure previously cited, but more particularly as an aid to the larger work of comparison of Mutsun with kindred Costanoan and other extra-group languages. The recent proposal of the "Penutian" linguistic family, to which Mutsun would belong, renders such a glossary invaluable for purposes of comparison.

¹ A. L. Kroeber, present series, 11, 29-80, 1904.

² Ibid., 1x, 237-271, 1910.

³ Ibid., x, 1–12, 1911.

⁴ R. B. Dixon and A. L. Kroeber, American Anthropologist, n.s., v, 1-26, 1903.

⁵ Ibid., n.s., xv, 647-655, 1913.

PART I. STRUCTURE

GENERAL CHARACTERISTICS

The surprisingly close similarity between the general morphologic structure and *Sprachgeist* of Costanoan and other languages of its type and Indo-European has already been noted but is none the less striking. The main characteristics of the language may be thus summarized. Phonetic simplicity and comparative unimportance of rules of phonetic change; complete lack of incorporation, either nominal or pronominal; complete absence of prefixes; independent pronouns; nominal case endings; and comparative simplicity of categories of mood, tense and number, necessitating an immense number of dissimilar stems of relatively slight difference in significance.

Phonetic System

The phonetic system of Mutsun and of Costanoan appears to be relatively simple. The vowels are a, e, i, o, u, all appearing open in quality. The Spanish orthography is perfectly satisfactory for expressing these sounds and no change has been made in transcription. Rarely a vowel is found in the phrase-book with circumflex accent and very rarely with acute accent, but as no uniformity in thus spelling any word is evident, and as the phonetic variation thus expressed is not described, such marks have been disregarded.

The consonants seem to be only w, y, m, n, l, r, s, c, x, h, p, t, t, k, and tc., m, n, l, r, s, p, and t (dental or interdental) are probably correctly expressed in De la Cuesta's Spanish orthography and are left unchanged. w is generally expressed in Spanish by hu with following vowel. De la Cuesta writes hua, hue, hui, and once $h\ddot{u}o$. He further uses often gua, $g\ddot{u}e$, $g\ddot{u}i$, and guo which denote in Spanish gwa, gwe, gwi and gwo. There is no sonant g in Costanoan, though the k has an intermediate quality. We find, however, that, though the hu- and gu- orthographies are each generally used consistently for certain stems,

402

there are occasional cases of identity, e.g., guallun, huallun, huolon, "be envious;" huilo, guilo, "signal 'yes' with the eyes;" huipa, güipa, "invite"; güeren, weren,⁶ "rabbit." Similarly the gu- orthography without the diaresis, gue, gui, is found often. This denotes pure sonant g in Spanish, a sound missing in Costanoan. Instances of a stem both with and without the diaresis are common, e.g., gueiero, güeierogmin, "great," and it is probable that such omissions of the diaresis are accidental. Therefore all hu- and gu- orthographies have been changed uniformly to w. Medial w is probably expressed by u with following vowel, but it often is difficult to decide whether a given u is vocalic or consonantal.

y is expressed correctly except in certain combinations; De la Cuesta's \tilde{n} probably denotes ny. (In a few cases of doubt it has been retained as \tilde{n} , as in suffix $pa\tilde{n}$.) *i* and y are sometimes interchanged, as *yttug*, *ittug*, *"*a seed." Here also it is often difficult to distinguish vowel and consonant.

c (sh) is not definitely distinguished by De la Cuesta but is suggested by certain sh, sch^t orthographies. Had he distinguished the sound he would probably have written it with an x in accord with older Spanish usage.

x (palatal surd fricative) presents some difficulties. Initially it is doubtless represented by *ja*, *ge*, *gi*, *jo*, *ju*. Medially the same orthography is utilized. Final x seems to be represented by g, e.g., uming, mū'ix,⁶ "wolf;" eg, ex,⁶ "squirrel." De la Cuesta's q in consonantal combinations offers the most uncertain of the phonetic problems. tigsin, "skunk," is checked by Kroeber's tixsin,⁶ rendering it practically certain that g in this case represents x. On the other hand, g before m and n probably represents k. Thus cma and gma are both used as a plural suffix. gne is a common passive suffix. Kroeber has nimikne wākai,6 "he hit me," doubtless the same suffix. Kroeber transcribes tansagte, "ten," tansakte, but atsiagnis, atsiaxnis.² Substitution has here been made on the theory that g before a surd represents the continuant x, while before a sonant or intermediate it represents the palatal stop k.⁷

⁶ A. L. Kroeber, MS.

⁷ See postscript below, p. 470.

Initial and medial h may be silent, as in modern Spanish, but since it is regularly employed in certain stems, and as both hand x are found in most Costanoan texts, it is retained.

t is the tongue-blade t found in the Costanoan and neighboring languages. De la Cuesta wrote variously tr, th, thr, thrs, trs, etc. It is often difficult to decide whether the last consonant of the complex is a distinct sound or not.

Following Spanish usage, k is denoted by De la Cuesta by c before a, o and u, and by qu before e and i.

The affricative tc is regularly written by De la Cuesta ch but often confused with t.

Doubled letters, both consonants and vowels, are frequently met with in De la Cuesta's orthography. As these are foreign to the Spanish language, except in the cases of \mathcal{U} and rr, it is assumed that the device is employed to express length or duration of the sound and is therefore expressed in the present paper as the simple sound followed by inverted period, in accord with modern usage.

The Spanish language is, on the whole, a far better medium for the recording of unfamiliar languages by an untrained ear than the unrevised English. In the great majority of cases there is no question as to the exact phonetic rendering of the native words, and in a great number of cases they may be left in their original forms. Only in cases where sounds unfamiliar to the Spanish ear occur is difficulty found. Such are w, the peculiar tongue-blade t common to certain California languages, and un-Castillian combinations of sounds. Little difficulty has therefore been encountered in transcribing the native words to modern phonetic orthography, which is doubtless an advisable procedure.

The chances for frequent error in so many transcriptions and changes in authorship are too great to allow any phonetic discrimination or any elucidation of the finer and less evident points of the language. Shea's impression is replete with errors of transcription from the Padre's manuscript, and these may be increased in the present digest. Many words are spelt variantly, sometimes on the authority of the original, at other times manifestly due to improper reading of the manuscript. This is particularly true with regard to the easily confused m, n, u, and i. Mason: Mutsun Dialect of Costanoan

Nevertheless, a few pertinent remarks may be made on Mutsun phonetic laws. The language is phonetically smooth and simple, the average word being an orderly alternation of consonant and vowel. Either consonant or vowel may begin or end a word, but consonantal combinations seem to be missing initially or finally, the few recorded cases being probably due to error. Medially certain combinations are permitted, though it is not easy to determine these. Thus, lalak-na, "go for geese," becomes by metathesis lalkana. Similarly, certain suffixes are varied in order to avoid unwieldly and harsh complexes, as kai-s, but men-se (interrogative); uta-kma, but inis-mak (plural). There appears also to be a feeling for vocalic harmony, and some suffixes are varied to the end that their vowel may correspond and harmonize with the characteristic or stem vowel of the word. Thus sumi-ri-ni. but towo-ro-ste; xana-ksa, but tare-kse. Again certain vowels seem to be dominants and survive in assimilation or elision. Thus the past tense suffixes -is and -in are dominant and -kne-is becomes -knis: -pu-in, -pin. A thorough phonetic study of the language would doubtless codify all these rules and elucidate many others.

PARTS OF SPEECH

Mutsun recognizes as parts of speech the noun, pronoun, verb, adjective and particle, though, as in English, the division is a more or less artificial one, the lines of demarcation are not hard and fast, and it is sometimes difficult to assign properly a given word, which may not uncommonly function in several categories without change in form.

Nouns

The great majority of Mutsun nominal stems are dissyllabic or trisyllabic. A few of the most common stems, such as many body-parts, are monosyllabic, and a very few apparently polysyllabic stems are found. Nominal stems appear never to be compounded and are varied only by the addition of a few suffixes. Stems appear to begin and end with either vowel or consonant without discrimination, and there seem to be no categories of stem types, such as for animate or inanimate, natural or arti-

405

ficial. That is, it is not possible to infer from the form of the word or from its suffix the category to which it belongs. Yet there are a few etymological suffixes in occasional use. Those making verbs are given below; those forming nouns follow here.

Etymological Suffixes of Nouns

1. -n, resultative, infinitive. Suffixed to verbal or other stems denotes result or phenomenon of an act.

noso-n	breath, spirit, soul	
sike-n	flatus	
paine-n	menstruation	
ots-io-n	wound	
sawe-n	song	

Possible cognate:

tor-on	amole
xasi-om	shame
mira-mi-n	$_{ m gift}$
es(x)e-n	dress
isme-n	sun

2. -s, -s.e, (-se, -si), causative, abstractive. Suffixed to verbal or other stems denotes cause or phenomenon of an act, and is generally used with words of abstract significance.

una	cure	una-s	remedy
ritca	speak	ritca-s.e	language
isut	dream	isut-s.e	a dream
kapal(a)	embrace	kapala-si	an embrace
kai	hurt	kai-s	pain
ete	sleep	et-se	sleepiness
xase	become angry	xa-s	anger
xemtso	silent	xenkotst.e	silence
-			

Probable cognate is:

3. -pis, (-mis, -sis), instrumental. Suffixed to verbal or other stems denotes instrument or means for the performance of an act.

xewe	cast shadow, re- flect	xewe-pis	shadow, reflection
at-ue	watch	at-as-pis	lookout
eyes	beard, shave	eyes-pis	beard-napkin

Mason: Mutsun Dialect of Costanoan

itok	cleanse	itok-pis	table-cloth, napkin
roro(s)	play	roro-mis	toy
isme-n	sun	isme-sis	eloek
sukumu	smoke	sukumu-s-pis	end of cigar

4. -msa, (-nsa), instrumental. Suffixed to verbal or other stems denotes instrument or means for the performance of an act.

humiri	baptize	humiri-msa	baptismal font
ene	write	ene-msa	eraser, blotter
ama	eat	ama-nsa	meals
tcala	urinate	tcala-msa	bladder
iisi	owe	isi-msa	debts

Probably also:

unupimsa	handkerchief
rotemsa	papers
siamalpimsa	confession
yisuwaninsa	corns

5. -pan, -pañ, agentive. Suffixed to verbal stems denotes the more or less habitual doer of an act or the exponent of a quality.

yume-pañ	liar
maxer-pan	one who makes sport of another with
	the eyes
notio-pañ	one who denies the truth
nimi-pañ	beater
yoso-pañ	lustful, lecherous
latue-pan	one who is always making signs with
	the tongue
ol·ue-pañ -	one who signals with his hand
piteiwi-pan	cleanser of hair
li-pan	hider
nimi-pan	striker, hitter

Other isolated examples of etymological nominal suffixes are:

ruk	cord	ruk-esma	doubled cord
upu	buy	upu-nsatpa	payment
usupu	fast	usupu-hai	Lent, time of fast- ing
mai-xi	laugh	mai-t	a laugh, laughing
mira	give present	mira-x, mira- mi-n	gift
koxo	load of meat	koxo-enis	bringer of load of meat
pux-ța	make bread	pux-uts	bread

407

krak-e	name, call	krak-at	a name
soko-țe	laurel	soko-tci	laurel fruit
rițe	decorate with	rițe-ni	feminine adorn-
mukur-ukispu	beads act like a woman	mukur-ma	ment woman

Reduplication seems to play an unimportant role in Mutsun morphology. A few words are found in which the first syllable is reduplicated but there is no evidence that the phenomenon is of any morphological importance. Practically all of the instances occur with names of animals or plants.

mumuri	fly
mumulaluk	butterfly
lalak	geese
lukluk	geese
kakari	raven
soksokian	sensonte
porpor	cottonwood
țoțolua	plantain
lukluk kakari soksoKian porpor	geese geese raven sensonte cottonwoo

Morphological Suffixes of Nouns

The Mutsun language is a comparatively simple one morphologically, being quite comparable to modern European languages in this respect. But few changes in inflection for the declension of nouns and the conjugation of verbs are found. These will be noted below.

The noun is inflected for differences in number, case, and in some cases even for person. Gender is, as commonly in American languages, not recognized, unless in sporadic etymological categories.

Many, if not all, animate nouns take a pluralizing suffix. This is:

6. -kma, -mak, plural.

sini	boy	sini-kma, sin- ksma	boys
		ataspis-mak	lookouts
		uta-kma	parents
		uhinis-mak	fishermen
		uras-mak	hole-diggers
atsia	girl	atsiai-kma	girls

Mason:	Mutsun	Dialect	of	Costanoan	
--------	--------	---------	----	-----------	--

pasear	(Sp.)	<i>pasear</i> -is-mak watcir.on-mak	passers-by the Guachirunos
ka	daughter	ka-kma	daughters
inis	son	inis-mak	sons

It is also used with substantive adjectives.

-kma is doubtless the original form and is used after a vowel, -mak being employed after a consonant to avoid harsh complexes, though there are exceptions.

There appears to be no dual number.

The various nominal case relations are expressed by suffixes which may be interpreted as postpositions, but are probably as correctly explained as true case inflections. These are:

7. -was, -uas, compositional, partitive, material.

ores-was tap	hide of bear
xutwas tote	meat of belly
xurek-war ruk	cord of sinew
orpe-was etse	middle of night

8. -me, terminative.

patre-me	into the house of the Padre
me-me	to you, with you

9. -se, -s.e, -ne, -he, objective.

aisa-ne	(see) them
kairka-s-e	(try) pinole
moro-s.e	(hunt) moles
krakat-se	(know) name
kapxan-ne	(strike) three
inu-se	(take) road
soton-he	(blow) fire
etc.	

10. -sun, -sum, -um, instrumental.

ak-sun	(die) of hunger
mait-sun	(die) of laughing
tala-sun	(die) of heat
ekwets-sum	(conceived) in sin, (choked) with sin
xai-um	(speak) with the mouth
urkan-um	(thresh) with the mortar

11. -tka, -tak, locative.

tapur-tak	(hung) in tree
urkan-tak	(grind) in mortar
xumes-tak	(hidden) in grass
ote-tka	(speak) in ear
wima-k-tak	(wound) in wing
ekwaesti-tak	(wallow) in sin

-tka seems to follow vowels, -tak consonants to avoid complexes.

12. -tu, comitative.

tanses-tu	(eat) with younger brother
ap a-tu	(dance) with father

A possible suffix with more the force of a postposition is: 13. -tun, -tum, regressive.

tina	here	tina-tun, tina-	from here
		tum	

In the case of terms of relationship there are sometimes diverse endings according to the grammatical person. Thus:

	1	2	3
	14s(8),	15. $-t(8)$,	16n(8), n, "his"
	``my''	"thy"	"his"
father	apsa		
mother	ansa		
elder brother	taksa		taknan
younger brother	tarekse	tarekte	
elder sister	tahasa		tahanan
grandfather	papsa		
grandfather	et.se		
grandmother	· tcirsi		tcinin
wife	xan aksa		xan.an
child			sitnun
grandmother	mense 🐡		menen
	mother elder brother younger brother elder sister grandfather grandfather grandmother wife child	mother ansa elder brother taksa younger brother tareksø elder sister tahasa grandfather papsa grandfather et se grandmother tcirsi wife xan aksa child	14s(8), "my",15t(8), "thy",fatherapsamotheransaelder brothertaksayounger brothertareksetareksetarekteelder sistertahasagrandfatherpapsagrandfatheret.segrandmothertcirsiwifexan-aksachild

The basis of this is plainly an infixation of -s- before the characteristic vowel for the first person possessive and the substitution of -n8n for the third person, where 8 represents the characteristic vowel. The 8k of tar-ek-se and xan-ak-sa are sporadic. This may be the vestige of a once fully functional genitive case. No other instances are found in the language. The -t- of the second person is very dubious.

Pronouns

The pronoun, as before stated, is independent and never morphologically welded with the verb or other part of speech. The six representatives of the two numbers and three persons are distinct and those of the third person seem to have little or no demonstrative force. The case endings, particularly the *-s* of the objective, are suffixed also to the pronouns. The possessive pronoun is often identical with the subjective form, though generally one form is exclusively subjective. The pronoun has a tendency toward combination with other pronouns and particles. Thus we find such forms as *ka-mes*, "I-you," this being the most frequent; *kat* (*ka-et*), "I in future time"; *kas-hiha*, "I also."

The pronominal stems are monosyllabic or at the most dissyllabic and quite dissimilar for the various persons. The first and second personal plural pronouns, however, commence with the syllable mak-, doubtless cognate with the pluralizing suffix -mak.

Demonstrative and adjectival pronouns are numerous and invariable.

Detailed lists of all classes of pronouns will be found in Part II.

VERBS

The typical Mutsun verbal stem is dissyllabic, ending in a characteristic vowel. This may even be the invariable rule, apparent infractions and exceptions being due to error or presence of unsuspected etymological or morphological elements. The characteristic vowel is not inalienably welded to the stem, since certain infixes are added between stem and characteristic.

Like nouns, verb stems take no prefixes, all morphological mechanism being attained by means of suffixes. A few solitary examples of possible verb-stem combination have been found which may be differently interpreted on fuller acquaintance with the language.

• • • •	mall fall (asignama)
up-xi(ni)	roll, fall (scissors)
xin(e)	go, walk
up-uru(ni)	slip, fall (person)
uru(ni)	fall
up-ki	roll, seize (log)
at-ki	break, seize (log)
at.e, atse	break

Reduplication of verbal stems is practically unknown in Mutsun. A few sporadic cases are found, however, which seem to have the iterative significance frequently denoted by this means in American languages.

polso	painted	polpolsi	dotted, streaked
tule	knock	tultul.e	palpitate
		pulpul.e	palpitate
tipe	wander	tiptipe	wander

It is a difficult and largely an artificial task to separate verbal particles into etymological and morphological elements. Nevertheless certain of these appear to belong to the former category and others may be placed there merely for the lack of evidence of morphological significance.

Etymological Suffixes of Verbs

17. -te, possessive. Suffixed to nominal stems denotes possession of the object.

otco-te	possess ears
kraka-te	possess name
sitnun-te	have children
pultei-te	have full breasts

18. -kis-, (-wis-, -pwis-), imitative. Suffixed to nominal or other stems denotes imitation of person or act. The reflexive suffix -pu is normally added.

mam.anxa-kis-pui	act like a fool
mukene-pwis-pu	act like a man
mukuru-kis-pu	act like women
monsie-kis-pu, (-wis-pu)	act like a sensible person
sawe-wis-pu	pretend to sing

19. -na, purposive. The verbal suffix -na, "go to do," functions also as an etymological suffix to noun stems, denoting in this case "go for."

lalak	geese	lalka-na	go for geese
sirak	nuts	sirka-na	go for nuts
weren	rabbit	were-na	go for rabbits

20. -mi, dative. Likewise the verbal suffix -mi may be suffixed directly to nouns, functioning as an etymological suffix and denoting gift of the object. It is generally or always used with the imperative and the first person singular object.

ruxe	arrow	ruxe-mi-tit	give me arrows
ma-țer	tobacco	ma-sue-mi-tit	give me tobacco
setne	acorn-bread	setne-si-mi-t	give me bread

21. -ti, substantive. A possible substantive suffix is found once: tanses brother tanses-ti-(s) be a brother

22. -u-, oppositional. Infixed before characteristic vowel of verbal or other stems denotes significance opposite to that of simple stem.

xit.a	sew	xit.ua	rip
pit e	tie	pit-ue	untie
pat i	seize, grab	pat-ue	loose
rotko	knot	rotuk	untie knot
kitca	lock with key	kitcua	open with key
rotcio	enveloped	rotciwe(wi)	freed
tcuni, țunuu	fold, pleat	tcunuhwi	open, unfold

23. -r-, excessive. Followed by the characteristic vowel appears to denote a psychological cause for the condition described.

sumi	be content	sumi-ri-ni	sleep from satiety
siwi	burn	siwi-ri-ni	suffocate from heat
towo	be rigid	towo-ro-ste	be stiff from cold
seso	shiver	seso-r-po,	shiver from fear

24. -*t*-, corporeal. Followed by a vowel in harmony with preceding one generally refers to action with or on parts of body.

latue-te	long tongue, (he) extends his tongue
l el uer-te	roll (eyes) too much
kai-ti	tighten (it)! make (it) fast!
rau-ța-smin	with large occiput
mup-tu	shut your mouth!
pelțe, pețe	shut eyes
pete(ni)	keep mouth closed
poto	pluck hairs
kapata	cross hands

25. -te, -ti, (-it).

tere-ti-s	(you) have cut (your hair)
nam-ti, nam-it	(I have not) understood, heard
kili-te	(it) sparkles
yața-ti, xop·o-ti,	(did he give you) anything, a drink,
ilsi-mi-ti, olte-mi-ti	meat, pinole?
insu-ti, insu-te	(you) know (it)
upxi-ti (or upxi)	(let me) drink a little
wipa-ti	(will) invite (you)
ole-ti	(I) seized (it), (what) could (you
	do ?)
ina-ti-s	(I) became sick
esoni-ti	(you) hate (the language)
lopx-ti-ni-n	grew mouldy (wheat)

Possibly the same suffix is found in the imperative with first person singular object, -t or -ti-t. It is a doubtful suffix; no attempt is made to explain it.

remind (him)!
\mathbf{spit}
(you) shorten (confession)
(he went) to try
(may they) gather (them)!
he threw him

27. -si.

xasiwa-si	scratch the boys' heads!
xeksio-si-n	(have you) satisfied (him)?
xima-si-kun	(we) have searched for (them)
mexe-si	(let me) be seeing; look!
pați-si	(that which) he has in his hand
nan-mi-si	(I) was listening (to them)
pak.a-si	he seeks (us)
puți-si	(I) am blowing (the fire)
uța-si-mi-t	guard me!
at-se-i	break it!
xelue-si-tit (xelue-mi-tit	flay, strip for me!
musi-si	(child) is sucking

This suffix may be cognate with the mandatory -si (No. 45) but the resemblance is not evident.

Other possible etymological suffixes are:

rukesma	a doubled cord	rukesma-te	make countless in- terweavings
xotio	a bag	xotio-(si)-nme	(order to) make a bag
ruk-a	house	ruk-sap-(in)	(they have) made houses
maț-er	tobacco	maț-uk-(ti) maț-ere-gn-in	give (me) tobacco (he) was intoxi- cated
wi-xi	fish	wi-ni	catch fish
tor-on	amole	tor-ke	bring amole
xasi-om	shame	xasi-mun	be ashamed
xan an	wife	xan.an-mi-(n)	(was) married
xakua	mussels	xakua-ikus	I went for mussels

Mason: Mutsun Dialect of Costanoan

Morphological Suffixes of Verbs

The verbal stem is variously modified for considerations of tense, voice, various modal significances, and to some extent for number.

The unmodified stem is used alone for the present tense and with temporal adverbial particles to express the future.

The most frequent temporal suffix is *-n*. This is generally translated by the Spanish preterit, but frequently also by the present. It may have an indefinite or a ristic sense, or denote incompleteness or continuance of action, and is found mainly with intransitive verbs.

28. -(i)n, indefinite.

(whenever I) err
(I) shoot (with my left hand)
(whenever a house) burns
(you will be) frozen
(I) argue (with him)
(he) follows (you)
(I) am dying
(rain) is ceasing
(he) is cold
(I) have peppered my throat
(soon the river) will dry up
(he) nauseated (you)
(I) liked (that)
(when they) rest

29. -(i)s, past tense. This is less common than -n. It appears to be a more definite past and is found mainly with transitive verbs.

yoreti-s	(he) chased (me)
katia-mi-s	(he) gave (you)
mistu-s	(you) warmed yourself
mexe-npi-s	(I) have seen (them)
wipa-s	(I) invited (you)

30. -(i)kun, past tense. This is the less frequent past ending and appears principally with transitive verbs. It is probably the most remote of the past tenses, but as all three of these are regularly translated by the bare Spanish preterit, it is most difficult to delimit their respective spheres. The examples seem to imply completion of action.

uxsini-kun	(you) have increased
ut ui-kun	(I) guarded (it)
uxei-kun	(I) have guarded (it)
oioi-kun	(he) seized (it)
oisio-kun	(it) happened again

The distinction between the categories of intransitive and transitive is not as close as in many Pacific languages, and there is no invariable designating particle for either. Certain suffixes, however, pertain to one or the other type. One of the commonest suffixes in the language is -ni, which appears on the whole to be a kind of intransitive suffix.

31ni, intransiti	ve.
orko-ni-n, (ork	o-ste) (we) were frightened
inu-ni-n	(you could not) imagine (me)
in.u-ni-n	(I) awoke
istu-ni-n	(I) dreamt o ₁ (you)
(wate-na) xam	u-ni-n (fire) is dying, (is-going dying)
(wate-na) lak-	e-ni-n (sun) is rising, (is-going rising)
eme-ni-n	(I was going) to forget (it)
inxa-ni-n	(I) am sick, have become sick, (you) are sick
muk.ie-ni-n	(I) am old woman
semo-ni-n	(it wants little time for me) to die
tursi-ni-n	(he) is cold
tupu-ni-n	(I) put my finger in my eye
suiu-ni-n (suiu-	ste) it was finished, consumed, used up
tisku-ni-n	(did this) break?
xupse-ni-n	(my hair) is fixed and prepared
xasli-ni-n	(be ye not) sad
ad infinitum	L

The nearest approach to a transitive suffix is -np, which seems to express action directed toward another person.

32. -np(e), transitive.

țiți-np-in	he defended (me)
itco-np-itit	pull me out!
tolso-npe	(I will) break (your feet)
lilui-npe	(we will) amuse (you)
ruima-npe	do not disturb (him)
munsu-npe	(ye have) soiled it
mus.i-np-itit-yut	warm ye me!
mene-npe	(how can I) forget (you?)
mane-np-in	(has he) forgotten (ye?)
tupu-np-in	(I) put my finger in (his) eye

Reflexive relations are very frequent and expressed by the suffix:

33.	-pu,	-p-,	reflexive.
-----	------	------	------------

she killed herself (do you) wash yourself? shave oneself
shave oneself
10
praise oneself
(have ye not) combed yourselves?
hit yourself
(I) measured myself
did you frighten yourself?
(I) am going to cure myself

In many cases -pu appears to be used idiomatically, the reflexive function being obscure.

	buy	upu-s-pu	sell
uni	crave, wish	uni-s-pu	consent
inu	awake, remem- ber	inu-s-pu	observe, know, see, feel
nip·a	teach	nip.a-p-in	they will teach (him never)
ritca	speak	ritea-pu	play, entertain

Reciprocal relations are expressed by the suffix:

34. -mu, reciprocal.

xața-mu	let us fight we will kill each othe r
lix-mu	we will kill each other
keye-mu	(do not) trample each other
is₊u-mu	play together!
hutcu-mu-ț	lift each other!

The passive voice is of considerable importance in Mutsun morphology and seems to be preferred to the active as a method of expression whenever possible. It is expressed by the suffix :

35. -kne, passive voice.

mexe-kne (me)	(you) will be seen
mira-kne (me)	(you) will be given a gift
mupa-kne (nep.e)	(this) is sucked
ole-kne	(they) are (not) caught
like-kne (me)	(you) will be killed
lokuk-kne (xin)	(the eye) is put out
lala-kn-is (haka)	(he) was thrown down
ut·u-kne (nep·e)	(this) is guarded
liwa-kn-is	(arrow) was hidden
matere-kn-in	(he) was intoxicated

Probably cognate with this is the suffix -ne with which it is in cases interchangeable. -ne often denotes a future passive, at other times its exact use is not clear.

36. -ne, future passive.

nansa-si-ne	(when we) try
mexe-si-ne	(you) will be seen
yume-si-ne	(you) will be cheated
xiraste-pu-ne	will (you) be reprimanded?
eise-kte-ne-s	have (you) shaved yourself?

Another suffix with a passive force is *-stap*. This seems to refer entirely to completed passive action, and a great number of the examples noted have a first person singular subject.

37. -stap, perfect passive.

ruta-stap	(feathers) recently pulled
pele-stap	(with what) was (this) stuck?
potsie-stap	(I) was censured
katia-stap	they gave rations
ixtei-stap	(he) was bitten by a snake
liki-stap	(I) was killed
xise-stap	(the fat ones) have been selected
mutiku-stap	(I) have been tickled

The modal categories are considerably less extensive than commonly in American languages but rather better developed than in Indo-European.

The imperative is expressed by suffixes varying for number and person of subject and object. Thus:

		Intransitive or
Imperative	1st pers. obj.	3d pers. ob j.
2d pers. sing. subj.	38t, -tit	39i
2d pers. plu. subj.	40tyuț, -tityuț	41 $(i)yut$
xima-t	seek me!	•
ima-t	show me (:	it)!
oltemi-tit	give me pi	nole!
ip.e-i	turn aroun	d!
oio-i	seize it!	
xima-i	seek him!	
ok•wo-i	send them	!
ot emi-tit-yut	give me pi	nole!
sumua-ti-yut	give me we	1 bod
oto-yut	go for atol	e!
otciko-yuț	be quiet!	
laisaisi-yut	sing slowly	1
at.e-ti-yuț	give him!	
ara-ti-yut	give him!	
hutcu-m-uț	lift each ot	her!

Another suffix with an imperative force is -is. This implies going to some other place to accomplish the command and may be termed the

42. -is, missionary imperative.

monse-is	go and tell (them)!
sak.a-is	go and bring (pinole)!
taska-is	go and walk (in the field)!
etue-is	go and release (it)!
oi-is	go and get (it)!
xi-is	go for fire!

There appear to be some terminations having the effect of a subjunctive. These are:

43. -tkun, subjunctive, hypothetical.

ak-niu-kane

(you) should give (him)	
thus should (I dress)	
(you) should tell (me)	
(he) would have made sport (of you), speaking (of you) after death	
(I) would get (it if I wanted it)	
if I could only catch them!	
if the bed is of	
when it is asked	

when he is thirsty

There may be some relation to the passive particle kne.

Iterative or frequentative relations are expressed by the suffix or infix -s, placed between the stem and the characteristic vowel.

45. -s, iterative.

ak.u	enter	aksu	many enter
ele-pu	go	else-pu	many go
epe	pass	epse	many pass
semo(n)	die	semso(n)	many die

De la Cuesta pays considerable attention to this suffix in his grammar, suggesting that it is frequent with every verbal stem. Strangely, very few unquestionable examples of it are found in the phrase-book.

Probably the same morphological element is that found in many cases following the characteristic vowel, particularly before the reflexive -pu, denoting in that case plural or iterative reflexive. It is also commonly found in words denoting occupations, *i.e.*, one who performs an act continually. Compare the nouns denoting personal categories in Part II.

amae-s-pu	(do not) amuse yourselves
roroi-s-pu	(do not) disport yourselves like boys
siole-s-p-is	(we) were talking among ourselves
xewe-s-pu	(we) both look together into the mirror

Other usages are more idiomatic and less evident.

ritca-is-pu	recount, converse	(ritcapu, play)
upu-s-pu	sell	(upu, buy)
siole-s-pu	(they) are solitar	y and sad
mexe-s-pu	(like as he) looke	d

The mandatory or causative relation is expressed by the suffix:

46. -si, (-se), mandative.

xotio-si-nme	you have ordered that they make a bag
mana-si-s	(you) commanded to extinguish it
ata-si-s	(you) commanded (me) to steal
pina-se-s	did (I) order this?

Three relations implying motion are of importance in Mutsun. The first, *-na*, denotes motion to a distant place or outdoors. 19. -na, purposive motion hence.

lixni-na	(he) is going to kill (it)
xiisi-na	(I) am going to catch (them)
paita-na	(let us) go and catch (them)
wate-na (lak.e-nin)	(sun) is rising; (going-rising)
wate-na (wetere-nin)	(it) is increasing; (going-increasing)
ereksi-na-ka	I am going to bathe

The second, -su, denotes motion to a nearby place or indoors. 47. -su, purposive motion hence.

nam-isi-su	(I) am going to hear (them)
ertse-su	(I) am going to supper
were-su	(I) am going to catch rabbits nearby
etste-su	(I) am going to sleep

The third, -inyi, denotes motion hither.

48. -inyi, (-im), purposive motion hither.

liw-inyi	(I) come to kill (you)
monse-im	(I) come to advise (you)
nesep-inyi	(we) come to beg permission
pasip-inyi	(I) come to salute (you)
warep-inyi	(I) come to visit (you)

A very rare and doubtful suffix, -knit (misspelled in the grammar as guit, or wit), has been termed "prohibitional."⁸ This may be the passive kne plus the future adverb et; *i.e.*, "you must not be struck."

49. -knit, prohibitive.

tamța-knit, xața-knit he must not strike you

A second very obscure suffix, -ksi, is translated by De la Cuesta "perfectly well," *perfectamente bien*, and is termed by Kroeber "excellentive."⁷

50. -ksi, excellentive.

xeksio-ksi	(let me) satisfy (him)	
ruisiu-ksi	do not (ye) tremble	
ruisu-ksi	(your hand) trembles	
nipa-ksi	(we) are teaching (him)	
rinsi-ksi	(they) take the lower (key)	
siaksu-ksi-t	(speak) to me softly (in my ear)	
xaune-ksi	(would that) someone would bring (water)	
siru-ksi-ste	(it) is pulverized	
polso-ksi	(what is this) painted?	

8 The Chumash and Costanoan Languages, op. cit., p. 253.

The verbal suffix -mi (cf. nominal suffix -mi) seems to denote an indirect personal object or an action done for the benefit of a person. It is most frequently found with the imperative and first person object, "do this for me."

20mi, -me	e, beneficial.		
katia(stap)	gave (food)	katia-mi(s)	gave (clothes to thee)
xelu(ksi)	strip off bark	xelue-mi(tit)	strip bark (for me)!
monse(t)	advise (me)	monse-mi(tit)	advise (me)!
monsie	relate	monsie-mi(tit) monsie-me	recount (me)! relate to you
riri	put selvage on	riri-mi(tit)	put selvage on (for me)!
iisi	owe .	iisi-me	(you) owe (me), (I-you)
musi-si	suck	musi-mi	suckle, give suck
țika	chew	tika-mi(t)	chew (for me)!
etc.			

Two suffixes of the greatest frequency are evidently cognate. These are *-kte* and *-ste*. The former is listed by De la Cuesta merely as a preterit tense suffix, the latter, though of frequent occurrence, not mentioned at all, though a suffix *-miste*, probably a hortatory, is described.

Both seem to have the sense of a past participle, and, like the latter, are frequently used adjectively. They express completed action or achieved condition. Though little difference is discernable between the two, it would appear that -kte is used principally for transitive relations, -ste for intransitive ones. They are frequently translated by the Spanish ya, "already."

51. -kte, (-xte?), perfect transitive (participle), adjectival.

mit.ci-kte	(bow) is unstrung
esko-kte	(it is) torn, impure
rițe-kte	(it) is decorated with beads
laki-kte	(it) is lifted, hung
tolo-kte	(they) have donned their regalia
lip.a-kte, lixwa-kte	it is hidden
liisu-kte	toothless
posio-kte	hairless
riski-kte	pug-(nosed)
sitl.u-kte	small
niotsio-kte	short
husiero-kte	big (mouth)
nutiri-kte	big-nosed

52. -ste, perfect intransitive (participle), adjectival.

xiwa-ste	(they) have (not) arrived
semso-ste	(they) have died
țoilo-ste	(they) are seated
pelke-ste	he was displeased (at me)
xutcu-ste	(he) has eyes
kome-ste	(I) am tired already
wane-ste	(I) am satiated
siksa-ste, mikna-ste	it is soiled
sesuk-ste, sumu-ste	(it) has decayed
unxu-ste, (unxu-smin)	snotty
natka-ste	black
rința-ste	lean
noioro-ste	large (feet)
ad infinitum	

The interrogative is expressed by the suffixation of the enclitic -s, -se. This may be suffixed to other words than the verb. more commonly to the initial word of the phrase. Thus:

53. -s, -se, interrogative.

kan-se	is this my?
kai-s	it is painful?
ekwe-s	did not ?
lalka-na-s	did (you) go for geese?
men-se	did you ?

-s regularly follows a vowel, -se a consonant, thus avoiding terminal consonantal complexes.

The negative is formed by the independent particle *ekwe*. *epsie* is sometimes used with negative imperatives, but the more common method in this case is the use of the bare pronoun *men*.

Some of the isolated and unexplained suffixes, indicated by italics, are:

grind (salt); (ground)
it went out; is going out
(put it out!)
(cigar) has become ash
(they) have drowned
(boy) keeps his mouth closed
(you said you) went to see (him)
(he wanted) to find (us)
(he) can (run) well
(I) met (him)
(I) lost (this)
split it!

kil-e, kil-ile, kil-pulme, kil-ite kipi-ni-pu-i kai-nawin kute-kets.i satar-a, satar-e, satar-pu tcite-sin-i sam-ursi sam-aipu; sam-iante xute-punk xit-kin nansi-ke xeksio-ie-i xase-sen xat-xasti; xat-xatsi nip.a-pin lop-kti-nin, lop-xe-ste ipi-re-i (ip-e-i) ina-ti-s; ina-k-pu we-solo-kte, we-yero-kmin, we-sare-kte we-tan; we-tere-npe-i yer-oepin matala-mu-i; matalu-ni-stap;

matula-ni mene-npo mir-ma-mi-t mup-i-pu-i; mup-e-i; mup-il-u-rte; mup-us-pu-i; mup-tu mai-xi-ni-sto tcorok-pumk ii-ps-is; ii-si-me

ak-eni-ni-n; ak-niu-kane
ekwe-na
uni-spu, uni-spate, umi-spak
ole-ri
inu-wi-me-i
itma-ni-t; itma-nu-i
iţ-uime
inu-i-ni-n
rui-su-ksi; rui-siu-ksi;
 rui-sin-ksi; rui-ma-np-in;
 rui-nga-t; rü-ki-np-in
umsu-mi-n
wax-tci-i
ele-mau-pu
eţ-oe

sparkle wink (your eyes) narrow, difficult very well tied, very strongly bound open the mouth dance for me! (they all) have long hair (I), (they all) cut their front hair fire is made (I will not) cleanse myself (you will soon) be known satisfy (him)! (teach me before I) get angry! it is well swept; very clean (they will never) teach him (wheat) moulded turn (this)! (turn around!) (I) became sick; (will you not) become sick? large, great is great; increase it for me! (he is) growing old place face downward; (I) was placed; (wait for him) to place himself (I will not) forget give me that which you were given! shut his mouth! shut his mouth with your hand! (he) keeps his mouth shut; shut your mouth! (they) laugh at (your speech) we become sad (when . . .) (I) owed; (I do not) owe (you anything) (I) am thirsty; (when) one is thirsty (I) have no (...) (he wished) to agree (you) can (not) remind (him)! lift me! lift him! (we have) corrected them (I) am tired of journeying (your hand) trembles; (do not ye) (who) trembles? he shudder; moved him; move me! I moved (they) flew scratch (him)! (you) will arise (early)

(he) slept (little)

Adjectives

Adjectives display close relations with both verbs and nouns. A few of them appear to be definite adjectival stems without terminations, a small number seem to be derived from nouns, but by far the greater number are akin to verbal stems. As allied to nouns they may take the pluralizing suffix and stand as substantives, as *weyero-mak*, "the big ones." As allied to verbs they commonly take the verbal perfect suffixes *-kte* and *-ste* and may be interpreted either as verbs or as adjectives, e.g., "the cloth *has been soiled*," "the cloth *is soiled*," or "*soiled* cloth."

In addition to the verbo-adjectival endings -kte and -ste there are two others, evidently cognate, used solely with adjectives. These are -kmin and -smin. The distinction between them is not evident, as, for instance, both nutka-kmin and humulu-smin mean "black" (sing.) and natka-mak and natka-ste "black" (plu.). Other suffixes likewise seem to be interchangeable under certain circumstances, as both orko-ni-n and orko-ste mean "he was frightened;" unxu-smin and unxu-ste both mean "snotty." -kmin is probably cognate to -kne and -smin to -ste.

JT.	-nmin, aujecticat.		
	patka-kmin	heavy, deep white	
	pelo-kmin	bald	
	nutka-kmin	black	
	hihul.i-kmin	something cut, as a pole	
	isiwa-kmin	newborn	
	kuti-kmin	very small	
	kipinyi-kmin	a winker	
	kits.u-kmin	twisted	
55.	-smin, adjectival.		
	selpe-smin	(are you) intoxicated?	
	xop-tie-smin	climber	
	an e-smin	turtles	
	ritea-smin	liberal, generous	
	waksa-smin	miserable, vile	
	ritcua-smin	silly, foolish	
	rauța-smin	with large back of neck and occiput	
	samili-smin	putrified	
	humulu-smin	black	
	unxu-smin	snotty	
	pelso-smin	large-tongued, garrulous	
	paisa-smin	runner	
	xase-smin	brave, fierce	
	ad infinitum		

54. -kmin, adjectival.

An infix -ti- is occasionally found before adjectival endings. It is placed between the simple stem and the characteristic vowel. Its import is not clear but it seems to imply an adjectivalagentive sense.

56. -ti-, adjectival-agentive.

urinate	xop-ti-e-(smin) tcal-ti-a-(smin)	climber urinator
suspect, misconstrue	mux-ti-e-(ste)	one who makes wrong judgments
signal "yes" with the eyes	wil-ti-o-(n.in)	one who signals "yes" with the eves
	suspect, misconstrue signal ''yes''	urinate tcal-ti-a-(smin) suspect, mux-ti-e-(ste) misconstrue signal "yes" wil-ti-o-(n.in)

Another etymological element giving an adjectival significance is:

57. -se, -si, adjectival.

in-se	tear-ful
yer-se	torn
polpol-si	dotted

PARTICLES

Particles are independent and invariable. They range from monosyllabic to polysyllabic, the longer ones being probably compounded. For purposes of reference they are divided into locative adverbs, temporal adverbs, descriptive adverbs, and interjections.

Two enclitics are met. The first is a conjunctive, *-hiha* or *-hia*, "and, also, as well."

me also

The second is an adjectival pronoun, -sia, "alone, only, solely."

men-sia	you alone
wak-sia	he alone

,

PART II. CLASSIFIED LIST OF STEMS

The following lists are arranged in the order of the phonetic alphabet. First the vowels, a, e, i, o, u, then the semi-vowels w and y, the nasals m and n, the liquid l and the trill r, the spirants s, x, and h, the surd stops p, t, t, and k, and the affricative tc.

Animals		
aiaraț	magpie	
auni-smin, anni-smin	turtles	
are	bird like a heron	
asurian, asit	sparrow	
ațaț	magpie	
akat	conch	
elei-min	goshawk	
ex, hex	squirrel	
eksen	quail	
intkx	large hare	
ipiwa	(rattle) snake	
omkon	maggot	
ores	bear	
oțol, oțon	red ant	
okom	bird	
uminx	wolf	
untcu-smin	black beetle	
uraka	salmon	
wawisaes, -ses, -soes,	coyote	
wakisaes		
wal.en	owl	
wasaka	eagle	
wakaraț-smin	frog	
weren	rabbit	
wilo-pan	blackbird	
wireskan	bat	
wixi	fish	
wipsur	fleas	
yurah	black duck	
maian	coyote	
marițe	young deer	
mițis	little moulting bird (jestingly)	
mumul·al·uk	butterfly	
mumuri	fly	
muniek, musiek	small bird with black feet	

Nouns

428

niwes notot lalak lesokwa lisana l·uopo lukluk rames rax rinva risui rumai saiae sanraruk sakar siol.ekon siuvuts siul.il.uk sisin sitikna, sitcikna, sikikna sikot soksokian swesusu xakua, (xaakan) xun.un hutce(kinis) paratu penie, penik perisiana pil.okian pitcina polokis polten por poskoi-min potol pukwie, pukwi pukului-min tamala tatci tiwiem tiwituk tira-smin tixsin tipih-smin tominis toroma torpaes, torsiepa

faun blackbird with yellow head geese earthworms snake yearling calves geese weasel white louse rat young coyote young hare jays large geese nits mole like a dormouse sea-otter butterfly small bird young squirrel mole bird like sensonte large ducks mussel small dove dog woodpecker cat young quails martin maggot, insect grasshoppers young rabbit flea black ant blackbird with yellow head young deer, young fallow-deer toad leopard (puma?) a small animal fallow-deer bird spider skunk earthworm seal wild-cat gray blackbird

tote tayankal taiaskal tiwak time tuilun kaul.epat kaxai kakari kaknu kotewes kulian tcaxi tceies tcil.iskan tcirit-min tcorena, tcoltcolua teurutu

deer, cattle, meat blackbird blackbird with watery eyes bird whale vulture bird with large mouth black louse raven hawk snakes blackbird hawk hare hawk hird cricket woodpecker

Botanical

aisaae, inkis e ama-knis anii arwe ahamen enena it.ux owos ortor-kmin uwena uner upit wara yarkas yukis momox morot muren lumuimin ransona rapak repit reteti riris ripin rore ruskes sawana sasuk

acorns seeds a white tree oak bundle of fire-wood blackberries a seed seed, fruit hay very pink flower wild onion acorn shell an herb an herb acorn a small, salty seed acorn shell an edible herb an herb an herb oak acorn shell blackberry bramble vine oak an herb an herb a thicket moss

430

sapa \mathbf{sak} siutotok wetemak sirak sipuruna somon sokote sokotci sumna, sumua xale xireni, (xirena, xiremi) xipur xit.iani xitna, xitia xikot xolopis xop xumes xumi-smin xur patax pat.i pat pakir pit-ui porpor porpor onien pururis tamet tarax tapur tiwis toinon tuxe tapis taki totolua kamer kamun ketex kirit-smin, kirit-skin tcasuni tcatia tcisnan

herb with a dark, hard seed small pinenut poisonous plant filberts, hazelnuts a white root hole in a tree laurel fruit of laurel sticks of wood green tule large pine-nut a tree tuna elderberries pine shell, chaff of acorn larch, a red tree hay wild rice seed willow chia tuno plant like tule seeds cottonwood tree like white cottonwood small fruit a dark edible root small, white willow tree, wood flowers a small fruit oak reeds, straw fruit tree plantain sweet herb tuno leaves an herb hay a well-known tree, testicles of hog alder

Body Parts

awis	left hand
eyes	beard
in	tears

isu, is.u ihatu itcie, itcik olot otco, ote ots io n una unux uri 119 watex wel.ewel(min) wima, wimak wilopa yisuwani-nsa yutxa marax maxul mak.us mitla moxel moxot mus mutis muktiokris, (muxtioxris) noso-n las.e lasin lit.akwa lom lopohs, lop-ots lup.us raras ritok rikex piliu romos, rutcu rumes rus sama sanan sarka sapa-xin sinpur sire sip.os sit sik.en somsom sok.o-s

hand ear-cavity pudenda back of neck ear bullet wound bangs, hair on forehead mucus from nose hair nostrils stomach point of the lips wing the red head of the blackbird corns tumor on neck skin spittle, phlegm knees thigh head skull bosom, preasts front teeth ankle breath, spirit, soul tongue finger-joints veins brain navel anus molar teeth intestines prepuce of penis pimples, wart spine, backbone saliva right hand groin blind eye pupil of eye eyebrows heart, mind feathers teeth wind broken, flatus armpits testicles

432 University of California Publications in Am. Arch. and Ethn. [Vol. 11

soko-rena, sioko-rena sute xai xahie xat.a xakana xelien xeser xin xorko-s xop.o xumut xunyois xurek xupur xutu, xut.u paine-n pat.ian pakar pak.a potcor pusi, piliu, pat.os, patsa, pelsi put.u-s put.us tankar tap.is tak.e takutspis tima tiras tolso, toolos tote tokol turis turtunin tuksus tup.ui, tupui tutper tukai tukmur tamus tap tat.i turum karkas kapis katak, katcak, katak katcitci

scrotum pudenda mouth voice palm and sole tail (of snake) skin birth-mark, scar eye throat back, upper part of back skull \mathbf{arm} ligament carbuncle belly, abdomen menstruation blood rash shoulder-blade scalp sores pudenda belly, abdomen thumb roof of mouth crown of head ribs shin-bone forehead buttocks knees flesh, meat syphilitic sores nails throat, neck ears -tail lips chest bosom Adam's apple cheeks, face hide bone skin molar teeth little finger nape of the neck, occiput pudenda

Mason: Mutsun Dialect of Costanoan

koro	foot
(kukas), xukas	anus, buttocks
tcapal	kidneys
teiri	horn
tc.oxo	pudenda
tcukuri	evacuations

Manufactures, Instruments

11/11/11/11/103,	11317 WINCING
an.ipu	pillow
aren	knot
axe-s	comb
ata-s-pis-mak	watch-towers
ate	acorn-bread
ațin	feminine ornament
akaț	ornament of conch shell
eyes-pis	napkin
ene-msa	blotter, eraser
ene-kmin, enko-kmin	writing, letter
erests	real, a piece of money
esxen	dress, clothes
et.cer	iron
ets	bed
eksen	nest
iiot	sacred stick, fetish?
imini	pinole
iru-kmin	arrow-point
isme-sis	clock, watch
itok-pis	table-cloth, napkin
oxot	basket with handle
ot.eme	pinole
unupi-msa, un opi-msa	handkerchief
ulis	basket
urkan	mortar
usek	whistle, flute
utis	arrow-point (arrow-shaft)
uțel	ear-ornament of feathers
utcir-min	small needle
walexin	small basket
ware	feather ornament
warsan	small basket
wetcok	small basket
yatan, lasun	net
yoxo	load of meat
mas	beads
mater, master	tobacco
lawan	bow
rires	arrow-cord, spear-cord
rițai	rabbitskin clothes

rițeni rits rote-msa ruris ruxe ruk ruk-esma ruka sak.in setne sianexan siotok siwen simirin sinpie, siupia sipirek sipuksan soxoi sokwe supik sutia xasa-pis xats ian, xas ian xel.emok, xel.emon xitca-mis, xitsia, xiteha-mis xotio xotox xurpu homoron humeren humiri-msa palsi-n parsex pakuts-mis pelo-maes piroi puxut, puput, puyut tio-x, tio-s tiwix, tiwi tilai tirtisen tipsin tor-on toko, tok.o tuyuwa tupen tainwen, taiuwen talis

feminine ornament coarse pinole portfolio bow-string arrows, spears cord doubled cord house broom bread of acorns and momgo skirt of tule or plants basket for holding water basket with a pyramid in the bottom seed-gatherer handkerchief bone awl large comb, brush comb ornament of beads and feathers atole small cloth poker, digging-stick opening of pocket ornament of conch-shell cloth, rag

toy bag shoes beads, feather ornament potsherd bar baptismal font muller of metate belt, sash ball for game comb of straw net bread spear, arrow without point beads, feather ornament basket with a good base belt, sash small basket for amole amole bed broom sweathouse bread of acorns and momgo wooden awl

temox tip-e kitirox, kitinox, kitirxo kit.cas, kitcas kurka, kurea tcakar, tcawar tcakini tciles tcopoma tcokon

arrow with point knife skirt key pinole seat, chair stringless bow bell fret, bric-a-brac sacred stick, fetish **?**

Natural Phenomena

awar am ani at.ar, atar ak.e ak.es, awes inu irek isin, isiin isme-n ixutun urani upak wakani wakis wixax wika yopok yokon yumus isir mun mun.s murtei, murteis, murtoeis murtcu notson latun raxopa rokie, rokse rutis \mathbf{si} soton suw, sus skoxe xewe-pis xitus xutepa pelek

north (dedo de carazon) rain mud, mire day salt road, trail stone hole (of animal) sundrop hole lump, clod, white paint dew? river, torrent light? afternoon hail cinders, ashes dirt on hands earth, dirt dirt, filth night night food drop rays of sun powder, dust open hole, cavity water fire charcoal drop shadow, reflection wind conflagration, great fire fine dust, atoms

435

436 University of California Publications in Am. Arch. and Ethn. [Vol. 11

pitaklint, dustpitil-anmole-trackpusninyiswhirlwindtamarhilltitinseashoretaska, tatskaplainturathundertuxisdaykauseashorekar, katsmokekoloispring of waterkurered paintkutuihole in groundtcarakskytcapehole in groundtcopolotesiplace full of holes	

Words of More Abstract Significance

ak	thirst
etina puatis	a game
et-se	sleep
ekets, ekests, ekaest	sins
iwe, ik.e	a method of making fun of a per- son
impe-s	sign
isut-s.e	dreams
01.0	a method of making fun of a per- son
oroe-s	hunger
otciko	silence
us·ix	sadness
mai-t	smile
morke	a method of making fun of a per-
	son
muisin, yenko	love?
layaya	length, height
laxi	game of revolving until dizzy
latiaya	great height
rakat	child's game
ritca-se	language, speech
samili	putrid matter
sat.e	a method of making fun of a per- son
senena	sting of an insect
siamalpi-msa	confession

÷

suwene	song
sunk, sune	hunger
xamapu	proof
xas	anger -
xasi-om, xasi-un	shame
xenkoțsț-s-e	silence
xuți	game
paya	lightness
peleța	children's game
taula-si	something held in the arms
tursi	cold
tala	heat
țis, țihs	life
țuma	scent, pleasant odor
kai-s	pain, misery, sorrow
kapala-si	an embrace
kapnen	Wednesday
kotcopo	a method of making fun of a per-
	son
krak-at, (xrak-at?)	name
teakir	odor
teopopiswai	Friday
teukuri	bodily evacuations, movements

Terms of Relationship and Personal Categories

ana	mother
ana-knis	stepmother
ap·a	father
apapat	nephew, grandson
atia, atsia-knis, atcai-nis	girl
atsiai-kma	girls
at maku-kmin	widow
ete, et.e	maternal grandfather or uncle
inis	son (father speaking of son)
inxoksima, yuxoksima	adult men, elderly men
ințisțe-mak	elderly men
isiwa-kmin	newly born child
ixatute	godmother
itxine	man (address term)
urxes-mak	bride and groom
uxi.	mother-in-law
uța	parents
mak•u, makas	husband
mene	maternal grandmother
meres, moeres	nephew, grandson
mirte-mak, mitte-mak	adult men, elderly men
mos	son (father speaking to son)
mukene	man

438 University of California Publications in Am. Arch. and Ethn. [Vol. 11

mukur-ma mukniue-sima, mukienin sini, sinyi, sin-ksma sit-nun

sit-sus xan-a, (xau-nan) paitcu-kte parane papa

taure, tauro ta, taha taka, tak.a tanses, (tauses)

tare teto-min tares, tcares tuta ka tcire tcorsi an-pi-s ali-s iwo-pan ika-s-mak onei-a onei-kma-s-e un.e-mu ura-s-mak uhini-s-mak uten-mak waixi-s-pan wayas-mu werxo-s-mak yawisun lisieni-s rite-pan sirka-s-mak xawa-pis-mak xixon, koxoeni-s humaia teye-s tikiro-mak kotcino-knis, -kma tcite-s-mak

women elderly women boy, youth, boys child, (foetus), baby (mother speaking) stepchild (mother speaking) wife man, person, cultured person grandmother mother's grandfather (maternal grandfather?) child (mother speaking) elder sister elder brother younger brother or sister, elder brother younger brother or sister sister-in-law men young man daughter (father speaking) paternal grandmother maiden cook, toaster, roaster competitor liar, cheat, bully millers companion neighbors friend hole-diggers fishers wizards, witches angry donor, unwilling giver enemy deer-hunters Tulareños walkers toreador nut-hunters callers, shouters meat-carrier countrymen . cook, roaster, toaster kneelers, those on knees servant, boys dancers

Mason: Mutsun Dialect of Costanoan

Numerals

emettca, emetka, hemettca,	one
hemetca, emestca	
emetspu	once
emetotca	the one
utxin, ustxin	two
utstina	twice
usxinya	they both
kapxan	three
usit, utit	four
parues, parnes	five
nakitci	six
takitci	seven
taitimin	eight
watsu, pak.i	nine
tanat, tansa-kte, matsu	ten

Pronouns

ka	I (subjective)
kan	I (subjective), my (possessive)
kan is, kanis,	me (objective)
kas, (kak), (kax)	
kat	I (subjective with future particle)
kames	Iyou
kanmes	you—my
me	thou (subjective)
men	thou (subjective), thy (possessive)
mes	thee (objective)
met	thou (subjective with future par- ticle)
waka, haka	he (subjective)
wak, hak	he (subjective), his (possessive)
haks, hakas	him (objective)
makse	we (subjective), our (possessive), us (objective)
mak	our (possessive), we (subjective)
mak.e, marke	we (subjective) (dual?)
mak et, makset	we (subjective with future par- ticle)
makam, ma•m	you (subjective), your (possessive)
makams	you (objective)
aisa, ai	they (subjective), their (posses- sive)
aisan, aiske	them (objective)
nuk	it (neuter objective), him (objective)

.

University of California Publications in Am. Arch. and Ethn. [Vol. 11

Demonstratives

ne, nep.e nepean nane, nina, nemis, nenis, unta, ister, nep.er nisia nunis, nunisia, nup.i nupean numan pina this (close) these this this (farther) that those which, that which (relative) this (more distant)

Adjectival Pronouns

aipire aimukte, aixames aman ams.e ani, anyi at.ia exil.iste imin, imiu, imi.u iruk wasi(a) vasir niat, nihia, nuia, nua l.el.uerte hisha siok, siokwe, siwene pisnie tolon teyo ke-se, kes-e

some all, exclusively so many the other another only, alone alone all (personal) all much much, very only, no more too much any himself, itself nothing much much much

Interrogative Pronouns

an . . anpi, ampi at.e at.ekin, at.ekinta in.at, inuat inxam, inxan ințis, (imțis) inka inkai ista where? which? who? whom? (singular) who? whom? (plural) when? how many? what? why? where? what? (do) what? (say) what? (thing), why?

Mason: Mutsun Dialect of Costanoan

VERBS

* The stems preceded by the asterisk are those occurring only once or twice and which therefore are more or less doubtful.

Α

aiw, ainwe, aiuwe, axuwe, aixu, aipu, arxuwe *aisa.e, inkis.e *aixuwes *auve ayi *ayimi-ni am *am(a) ama *ama-ni ameis, amaes ami, ami-si amiu(m), amoi amne-ni, am.a-ni amsa ana *ana *ana-pu *anure *ansam *ansemi *ale, luwi ara, arsa *arespi *ars.e *arke-n *arki-ni *asa *asi-n asinu-n. as.nu *asiknene aski, askin, askun axa axe-niak.e-n *axi, arimi *axtu-n *apere at ata *at.e *at ia atue

see

desire, crave withdraw, depart awake, awaken come lose, stop be (substantive) speak truth eat appear play give, bring, hold, carry, preserve teach rain, wet endanger, injure pardon desire to, long to be injured bend, bulge backward paint keep watch, be vigilant break and leave place give quarrel, fight (between women) observe, conceal increase, grow take the road part the hair flow in (water) sneeze hate cut comb flee give again break a tooth chase flies with a branch break, split examine insult, grumble, quarrel cease talking, be silent view, watch

*at.uemi *at-mu *at(ki) at *aţa *aţa *aţa *aţski ak.a *akan *ak.ara *ak.ara *ak.ak.e ak.u at.cun correct, put right quarrel, fight (boys) seize steal, cheat congeal mend, fix crack, split (earth) leave, depart leave, permit look up rise, jump, get up enter make, finish

 \mathbf{E}

eies, eis e eme, emse, enen *eme-ni emre-n, hemren ene eno *enusi ele, else *elie *eraes *ere *erenmite ertse, ertste *ese *esier esoni, esosoni *exenmi epe, epse *etueis ete-n

shave forget wait, detain be envious write, paint stay, remain signal with the finger raise, lift, arise goad, spur, hurry praise one's self bathe finish, end, complete eat supper dress say hate leave, depart pass by disentangle, extricate, free sleep

*iweke, inke
*iwini
iwo
ima
ime
*imu
*in
ina, inxa-n (una)
ina-n, insa-n
inanme

I

```
gather plants
do
dispute, quarrel
show
join
arise
do
sicken
fall
rain
```

inu

insu *inkai *inke-ni ilo iluwi, ilpi, ili ilsi-mi *ilkun irko isento, is.inte *isi isia isiwa, isiwi isiwe, isuwe isi-m, ispan, iisi-me, iipsi isu *isnu, isu istu, isut iskani, itskani *iske-ni, xitske-ni ixime *ixironi *ixiras *ixisa *ixuk.a ixwi, iuie *ixtci ipili, ipile ipire, ip.e *it.iu itok itma ita, itu *ițanai ite, itu ițe *iți-ni ițo, it.co *itui *itso, itu, itsku *itcile itco-ni

oio, (oit), oiis *oiwi *ouso *owe observe, feel, conjecture, remember, recall know speak, talk, say seize, grasp burn put on sash or cloth give meat lift skirts defecate walk carefully, watchfully await be hungry give birth, be born rest owe play at hand game follow, imitate dream pay hiccup trembie sprinkle kick walk in mud shout, cry go, walk (many) sting, be stung by (snake) lie down, lay down turn around get the better of one cleanse, purify lift, raise wash arise spur, incite, urge disparage bruise, mangle hand leave, depart spread (acorns in the sun) doubt be ashamed come out

0

seize, take, bring tie, clasp, bind order, instruct return a favor, give the thing dreamt

444 University of California Publications in Am. Arch. and Ethn. [Vol. 11

*one	sit down, seat
*oneia	accompany
*on.ome	hunt deer
*onsie	ask, inquire
ole	can, be able, gain
olo	become blind
*ol·ue	signal
*clhs.e	kill many
olte-mi	give
orso-n	belch
orko	frighten
*osehe	speak, reply also
*oswe	scatter manure
*opiweis	discover, bring out
ot·o	mend, fix
*ot.o(po)	dirty, render filthy
ot.mo	piller
*oto	regain
oțsio	wound
otspe-n	have a pain in the penis
ok, oke, ok.o	send
*ok.e	confess, be exposed
*otcenuix	discharge, dismiss
otciko	de deaf, be quiet
*otciko	desire, have desire, covet

*uwin *uwi-ni *una, unpina *un.e uni ule ule, (uel) ura *ura(pin) *uru-ni *urusi *urse, use *usa-ni use usete, useti, usute *usiu-n *usiule *usui-mi *usulu usxi-ni

U

kill someone flee cure quiet, cause to be silent desire, covet stop, cease be sad, cry, be unable dig holes make sport of, anger, feel, cause feeling fall have, carry learn (language) have hang-nails on the fingers smell, have an odor conceive (child) depart go out (fire) give seeds surpass, conquer be sad

uspu, usupu
*ustu
*uska
*uske
uxe, uxue, (uxwe)
uxsi-ni
*uhisoni
up
*upi
upu
*upxi, upxiti
*utisi
*utix
utu
*utue
*utku
uța-si
*uke
*uk.ini-ni
uk·isi, uk·esi, uk·osi, uknesi
*utci
*uteu
uteu, utu, huteu

fast whistle cure by removing stick (sucking by shaman?) mend, fix, repair guard; bring the object guarded increase desire, crave, covet roll cover one's self (clothes) pay, buy, sell sip, drink a little bargain, trade, buy, crave, desire, covet crave, covet guard, place, sow (seed) make a grimace double, fold guard, protect (child) bring water wish to fall, walk around (dizziness() drink water close open carry someone, raise, lift

W

waian wane *wane-ni *walektis wal-u-n, wolo-n wara, warsa warak, warka *warepi waris warse, warsi warta, wanta *was.e *wasi *wasi *washski, (wacki?) waxa, waktci, wak, waxu *waxaiam *waxa-ni *wata wate

miss, err satiate, cloy wound one's self follow in file be envious cut weep, cry visit, salute dislike follow, perform hide behind cut and dry meat beg a great deal hate, abandon pulverize (with the teeth) scratch, scrape be thirsty do an act slowly seize, bring, take atole come, go

wate *waterei, wetere *wak.u wakun wakna, waka-ni wel-o wesi, xuksi wexe *wetso wi wiya wilki wilo *wiltu wilkwo, welko wire *wirwe wisa *wis.a *wisen *wisen *wisol *wispe wixe wixi, wini, uxi-ni wixia wipa *wit witi *witu wik.e, wiwe *woso-ni *wopo

lack, fail, be wanting augment, make great open the stomach and entrails drown at childbirth freeze cover the head kindle, light shield, cover take out the belly commence, begin light, enlighten unfold affirm with the eyes slope backwards above swell up (tule) blow upon, cure illumine with a brand display, show, teach scratch (birds) dress a person spill, scatter uncover, disclose flash lightning split feathers for arrows fish, turn about, cure dispute, question invite bow, stoop, jump fall, be thrown break a fingernail tremble, shake choke (with pinole) boil

Υ

*yam *yan *yanu-ni *yasa *yat.ia yaţa-ti *yaţa-ti *yaţa-, lasun yaţi *yaţs-e *yeikmi, yere-ni *yenko catch (moles)
boast
have pain in the stomach from running
not take
frighten
give anything
be full (net)
follow, accompany
be urged, impelled
remain, continue, be suspended
divide love (?)

yer *yiusie *yim-, yumile *yilu *vira *yika yono, yons *yoreti *voron *yoxon *yoso, yusu *yoporon *yopok yoke yoko *yuwi-ni *yuya yume, yame yura *vuxi(s) *yupki-ni *yutu-n

*ma mai *mai-a, mai-x man mala, male *mali *malu-n *maxe *maxer maxi, mawi maxu *max-tci *map.is matal-, matulani matmu, matnui *mak.a makai, maki maku *maku mene, (mane) *menomi, monomi *meno-ni, menso *mensie *merke

grow old, become torn happen, succeed turn seat around commence, enter (season) pick, prick grind in metate cut hair chase, pursue pile up loosen, slacken, ease have carnal intercourse inter se make, manufacture hail make sport of one make ash, become ashes remain, stay bathe, swim deceive, cheat kill by hand hope to break the bottom off run, fall, flow (tears)

М

look laugh, smile view, behold quench, put out soak, wet cover the genitals come down for the night look down, view beneath make sport of one with the eyes close open be blind, unable to see put hand over or in mouth place face downward stink, have bad odor be indistinct cover, place in order to clean get married go to eat forget sink to the bottom of the water drown in the water be ignorant of, not understand move from the house

8 University of California Publications in Am. Arch. and Ethn. [Vol. 11

mexe, maxe mete *miwe, miwik, mixu *milan *milka mira *mire *mistu *mixira *mipti *mito-n *mike mit.ci, mitcui, mintcui *moil.el.e *moitce, moiti mome-n, (monie-n) *momo *monoi monse monsie *moro morke (morwe) *moxo-n moho, molio *motiolpese *motuhe-n moko *muisi-n *muiku muma, mapu (mupa) *mumi munse, munsu *mure mursu-n musi musi *musi *musiuru-ni *musuk.te muxe *muxi *muxuki, ixikan mupmut-*mut.ie *muku *mutcipi

look, see hide (in the grass) strike? spread on the ground (bread) rob one without apprehension give presents, regale fix the head like newborn children warm oneself pluck the skin on the hand, graze brood in nest fall (bread) test with the point of the finger sharpen, temper, blunt (arrow) run in a crowd gather, collect, come together be late, delay place something face downward enmesh, entangle advise relate, recount beg and accumulate (grain) make sport of one by shouting submerge, sink dance above (women) make a reverence appear, grow (hair) be born, leave love, desire, covet swallow without chewing suck join, combine, meet (roads) soil, dirty camp, prepare for night ache in molar teeth suckle heat, warm like, covet tickle in the nose rub, pulverize in the hands suspect, misconstrue be hot (weather) finish grinding pinole close the mouth tickle in the hands and feet eat pinole hawk, cough eat breakfast

448

1916]

Ν

*nayate	go gathering, get
nam, nanm	hear, listen to, understand
*nane, nene	count, pass in list, miss
nansa (nausa, namma)	experiment, test
nansi	know, recognize
*nasu-ni	fall, break (fire, brand)
*natka-u	blacken, cause to become black
*neike	be quiet, gentle
nesepa	ask permission
*niatin	cease doing, quit
nimi	strike, beat, kill
nipa	teach
noso-po	breathe
*noxi	guard, hide
notio	lie, deny the truth
noto	slap face, box ear
*nue	be
*nuiri	desire to, wish to
*nuisin	love
*numa-ni	increase (pain)
nusa-ni	pant, breathe heavily
*nuski	snore

 \mathbf{L}

*laisaisi lala lalei *lalu-n *laski(nis) *latue lak.e, lawe laki laku-n, lauku-n, lusku-n *lakwa-n *lakpom *latcia *lelte *lek.o letsen, lessen, lelsem liwa, lixwa liwi, (lik(.)i, liewi, likni, lixin, lix, uwi) *l.imuok lilui lisko-n, lisa-n

sing rapidly fell, throw fan, winnow lose, miss the road, wander depart for another place signal with the tongue rise, climb (sun) hang gulp, eat without chewing change from one to another trip, fall, roll and lose something remain in one place turn the eyes too much stink, have a bad odor like, enjoy, please hide in the grass beat, cudgel, kill

steal, run, return and not catch amuse, entertain slip, slide, scrape, graze

lipa *lik.wa loe *lole *l.olio *l.opopoi *lopxe, lopkti lok(oi)s, loksio, lokosi *lokuk *luismu *lulpus luxu-n, lux-u-n *lut.apa *lutie *luka *luteuma

*ranu-n *rats.a *ratcami *remomae *rensik *rete, rekte *retie *reke *riwi riri *ristest ripa *ripu, rotciwewi ripu *ripsa rita *rite ritca roroi-s, (roro-s) rote roto *rotuk, rotko *roko rotcio, rotcue, rotciwe ruisu, ruisiu, ruisin, ruima, rüki, ruinxa runa rusu *ruxi

hide in any place plaster, daub, smear, gloss loath, nauseate, repudiate cause to speak, break a speech be content, appeased, cease anger pass between become mouldy (wheat) lie, make a mistake put out (eye) fall from weight play the flute stick in mud or clay, be stuck in wallow (in sin) hang (like a swing) soften the hair get wet, soaked

R

have pain in the neck increase, crackle be swelled up with plants go from one place to another interrupt, confuse gather, collect hang in a hidden place change oneself, move transform, change put selvage on cloth serve, do hit with the fist release, disentangle, cleanse, purify prick open with a knife cry, shout make dried meat speak, talk, converse, recount, play, entertain play, entertain, divert, amuse be (substantive) drown untangle, untie knot, knot, tie knot put in the embers enmesh, entangle, free, disentangle move, stir, tremble, shake

dance spit, expectorate hide in the rear

speak about a person, or thing, re-
fer to
cut, gather (wheat, feathers, etc.)
conceive (child)
signal "no" with the head
surround by water, isolate

\mathbf{S}

sawe saya *sayal *samai, samia *sanae *salu-ni salpa *salki *sare *saromi sarpa *sasa sate satar(a), siatar(a) sate sak.a sakeri-ni *satcepume seye semo-n, semso-n, (semxo-n) sele, sehele selpe sese seso-n *sesort-po sesuk sepe (spepe) *sepie-n *sialwini siaxu, siaksu *sietco-ni siole siotio *siokole-n *siurire, similile *siuspu-ni *siuto

sing shout, cry lie face upward cut the forelock approach, draw near get a cinder in the eye hang, place in a cleft or fissure split, fall apart pray in one's room administer extreme unction patch, disappear from view discover, find (land) make sport of one by naming him open the mouth toast bring a little stick in the uvula bring coals, embers lengthen, expand die look backward intoxicate with tobacco or liquor, be crazy walk in file shiver swell with pride, become haughty decay cut hair satiate, cloy split a flute speak softly hit (in stones) talk, converse among selves, be sad tie hair in a tuft become hoarse, unable to speak have a ringing in the ears be blinded by the sun hunt moles

200

siwe-n, sik.e-n *siwi-ni, sixi-ni siwi(ri-n) *sin.a-n *sinmekpi sinsi *sintcu, suitcu sinkuru, siukuru *silku *siru *sixu-ni, suxu-ni *sitia-ni *siti-npe site siksa, sikila, (sika) *sitcitce *soinwe soro *sorpo *soter-pu-ni *sokoro *sokto-n *suman, sumula *sumiri-ni sumixi-ni, sunii-n, s-umiu sumu su-n, swi-ni *sulu-ni *surire-n *sur-ni susu *susxe *supe-ni supi *sut.u-ni *sutwi *sutki, sut.e *suka sukumu suksi, sukis swi-n, swi-u *swisia-ni swixe, sinxe *switcu *stcekele (cekele?)

break wind disappear (smoke, thirst) suffocate with heat, burn become bald kiss act like a boy, otacer toast, cook in earth-oven tickle in the body lift skirt, pull shirt-tail grind salt rush, gush have feet asleep crumble, chip, make small spread (fire) soil, dirty cry with pain or weeping enmesh, entangle flow, gush disappear, dim, recede, vanish, fade extend the feet darken, become night get a drop of water in the eye become soiled, dirty sleep from satiety be content decay die drop or cinder fall in the eye die out, go out, extinguish (fire) heat, warm oneself be afraid, fearful act foolishly, play the fool dream of one tie, bind break, crack pinch the mouth stretch the ears go to meet smoke (tobacco) think, watch, observe, disapprove consume, use up, finish, die singe the hair skin, take off hide toast set, place

1916]

Mason: Mutsun Dialect of Costanoan

Х

xaisku, xasku, (xaise-n) *xaune xawa *xawei *xawimi *xawi-ni *xamu-ni xa-mpin, xa-npu *xan-ni *xalawe xalas *xaleti *xalsi-npe-ne xalki xari *xarxare *xarpa *xartcute xas.a xase-n, xasese-n xasiwa xasi-mu-n xasli-n (xarli) xastitinme, xatirinine *xapu xata *xatu *xatki *xatki-ni xata *xatuel.e *xake-ni *xakwa-iku xatci-n, xatsi-n, xati-n *xeiwele, xeixeie xewe, xewi xemko *xelue xelxelte xeksio, (xeisio) *xiete xii, wi, xihi, xiixi, xiisi xiwa *xiwis xima *ximsu xine, (xinkone)

tickle, itch draw, fetch water call put on a veil enclose, lock in still, quiet, be quiet die out, go out (fire) eat again desire, crave, covet strike sparks lie, make a mistake play kindle, light (flint and steel) stretch, extend begin, commence befall ill, happen badly disappear, fade away, become invisible lack a bit, a little missing desire to, want to become angry scratch be ashamed, shame fear, be afraid enter wind and cold cleanse, withdraw dirt sweep gather, assemble (fleas) cleanse, purify go to the other side hitgrumble, complain be flatulent, full of wind go for mussels die of hunger, thirst, laughing, etc. earthquake, tremble (earth) cast shadow, reflect set (sun) strip off bark float satisfy hiccup go for fire, light fire arrive, bring take off rope around neck seek, search roll the head go, walk

University of California Publications in Am. Arch. and Ethn. [Vol. 11

*xile xiras, xirat xiri *xirwi-ni xise xisie, (xitsik) *xisli-n *xixwi xipu *xiteti xiti, xitui, (xite) *xitu-ni *xita *xite *xite pet.o xitia, (xita) *xiti-mi xito, (xita, xikto) *xitorpi *xitske-n xiksi, xiwis, xikoi *xitsik xoin-we, xoixu-we, xoaxu *xowo *xomo *xon(.)o(ti) *xonkote, xonxote *xolome, xauni xorko xope xopo *xot.oro, xot.ori *xotpo *xotcolon *xuma, (xutna) xu-mi *xu-ni xute *xuta \mathbf{xuti} *xut.u-n *xutski, xutoki *xuka *xutcu

be wounded, have wounds scold, quarrel, lift the voice make dried meat lessen, be ceasing (rain, wind) select, choose, elect make have pain in teeth disdain, reject carry rub together cleanse oneself catch the hand in the door make dried meat spur, prick, goad, stick stop (wind) sew become indebted stretch, crawl throw, put, carry outside be contented tie, bind make cotton cloth carry shout ho! ho! skin, take off hide evolver al arco bundle, collect in a bundle ignore, not invite gulp, swallow climb, mount give water, give drink put hand in vagina set (sun) make a hole (water) grind (mortar or metate) give anything finish life, approach death kindle, light fire place inside play game remove dust, powder seize, withdraw, remove change (song) carry on shoulder

\mathbf{H}

*hairmurnik.ui hius.e, hinse, wise, ihuse-n *hiuti lift with one hand wish, desire, want throw, cast *hihe(pim)
*hume
*humi-n
humiri, (umiri, tumiri)
humu-n, humsu-n,
 (umsu-n, unsu-n)
*hun.i

be defiant join, impinge, strike wash oneself baptize fly

mix, stir

 \mathbf{P}

paita *paye paya *pala *palsi-mi-n *parsa parki *part.cipu *pasipi *paskei paxat, paxtca *patiami-n pati *patue *patsxin, patski paka *pak.ak *paka-ksi *pakeit *pakere *pakul *paksa patci pele, pelke pelte, pete pesoi(po) *pepena *pet e *pet e *pete-ni *petole *piisokri pio *pinawai *pilpul.e, pulpul.e, tultul.e pira *pirka-n *pisieks.i pixi, pixe

hunt (geese) be pregnant run slap, hit with the palm toast, cook gleam, appear light weigh saw a pine visit, salute secure fire with flint and steel know, recognize bet, wager have, hold in hand release, loose strike sparks seek, call, crack mussels marry beat obtain fire, make fire start (tears) give hand, shake hands shine, lighten (fire) fall dew, sprinkle stick, join together, loosen, separate shut eyes remember, think espigar castellanamente guard fried fish escape, flee, fly, go keep mouth closed keep feet together knock with fingers cleanse teeth have pain (neck) beat, palpitate (heart, pulse) inhume, bury scratch (birds) grind, pulverize split, open

455

University of California Publications in Am. Arch. and Ethn. [Vol. 11

*pixu-ni *pitilu, pistu pitipu, pitui-ni *pitu-ni *pitsi pite, pitue, pitui *pits.a pitciwi *poistco-ni, poitco-ni *poiko-ni *polo pol·o *porpore posio, pasio *pos.o *posol.o ats *poso(poi) *poxoro-n poto *poko-ni potsie *punsi-wi *punsi-ni pulki-ni *puriure pusa *pusi-n *puxi *put.i put.in *putu puta puți, puțe, putci-ri putski *putske *putsiule, potsinle

burst pus pinch, squeeze cleanse intestines of excrement flow, gush (tears) frighten, frighten away tie, bind, unloose, untie signal "no" with eyes shake, cleanse the hair break wind without knowledge frighten, scare sunt sodomicici paint, draw doze cut, singe hair with brand check, suspend, equal intend to dispute be drunk, intoxicated get the hives pull out down, fine hair, pluck swell, puff up grumble, censure catch (birds) view with close attention break off bottom quake, tremble, earthquake satiate, fill, cloy twist like a whirlwind recover, feed, give to eat cover and guard involve, wrap, gather return and go from place to place bring acorns, etc. blow pull hair make the sound "put, put" burn brightly, make no smoke (fire)

\mathbf{T}

*taula-si *taye *tamin, tan. tamu *tamxa-ni

*tanu, tanyu, tan.

tamța

*tanta

hold in arms go quietly double, fold warm oneself in the sun, take the sun have earache strike, beat lift skirts embrace, lift in arms *talu-ni taltu *talku *tasinte *tastu *taxara tax(e) tapa *tapi tata *tatska *taka-ni *tak.e taku-ni teme-n, temo, temso tenpe, tempe tere terpe tie, tik tio *tiusi-n *timire-ni *timu-ni tinke-ni *tilo *tiru *tirsu-n *tisi *tixi *tixiro-ni tipe, tiptipe *tipur *tipso-ni *tipki *titi-n *titu *tituk *titu *tit.ci *toutosi *towo-n tone, tonse *tolso tor-ke *toxere-ni *topope totio-n *totoro-n

make blisters on hands extend the palms of the hands spring, jump watch, dance display palms of hands follow, go after ask, question turn the tables, pay back in own coin measure touch extend hand hurn measure choke, strangle sleep by fire, warm oneself by fire dry up (water, river) cut hair smart, pucker (pepper) grumble, complain shoot arrow flower, be in flower have headache trip, stumble jump, spring, leap don regalia miscarry cut, break cure the itch slice meat, make dried meat slip, slide, fall wander, walk about cut hair rattle, make a noise (bone) cut hand cover with shoulder fray, unweave lie on one side extend hand drown harden, strengthen remain rigid, frozen lose, find break knees bring amole be constipated extend fingers and do top, top err, mistake, lie put in salt, salinify

*totue tokso, (tokse) *tuine *tuisu, tuiu-rure *tume-n, tume-mels tun.e, (tunk) tunute, (tanute) tule, (tulk) *tuluk tulku tur-si *tusi-n *tusu-n tupu-n *tuta *tutiu-n *tutisi *tukitce

*tayuwire tala *tasak *tata *tatu-n *tatuhule *takarpite teyo *temelele *tele tetesi *teke *tien tiwi *tinai *tiniwi *til.usi *tis.ektene, tcirsextene tisku *tixta tipe *tipe(spi) *tip-wi *țiți tika *toilo ton(o)me *tonko-n

put on shawl rumble, make great noise, snore make wooden bridge tremble (hand, belly) make food finish, complete, end conceive (child) knock at door, call cover one (for the night) give rap, fillip be cold, chilly watch a dance await, expect finish, complete, end cover one, put on hat die? string a bow lift earth, (encorrar)

\mathbf{T}

smile, chuckle, half laugh be hot (weather), put in sun clear, clarify (sky, weather) possess much, own much cease pain speak between teeth sit down, sink blaze, heat, be afire burn much go in file, follow push, jostle, squeeze, hold tip-toe, walk on toes kick put in bag, pocket tighten, constrain milk listen to attentively, hear cover with ashes split, break, smash hide in sand, be hidden thresh grain make thongs, straps for the capote cut, shorten, clip, abbreviate defend chew, masticate be seated seek a dead animal wither, become ary (seeds)

Κ

- *ţoxoro *ţox(pe) *ţu ţuma-s, (tumas, ţumsa-n) ţunku, (ţunuk)
- *țulu *țura *țursu, țutsu țupu-ni tuka

put finger in eye beg, ask

thunder

pass, go by (water)

strike in the eye

make a hole

like, enjoy, please

stricting them

dry up (water, river)

signal "no" with nostrils, con-

walk continually, never stop

kai, (kayi, kaixi) *kai-ti *kawak *kam kama(i), kamexe *kamu *kamutce, xamutce *kane *kanxi kale *kal·u *kar *kara *karapu *karka *karki kase *kaxi kapal(a) *kapata *kapi katia *katu *katu-ni *katca, katcue *kat.ci *keie(k) kewe, keinwe *kelete, kelte *kelok(mo), kelox(mo) *kenem ketio

kil-e

smart, be strong, bitter, bite tighten, constrain advise, notify do, make look, watch, see, behold lend (wife) lack a bit, be missing a piece go to the quarrel, fight dry up defend bite be fortunate, happen well grind, rub in the palms give tobacco kindle fire with small sticks bargain, trade, barter bite louse, expel lice embrace cross the arms, hands carry a large bundle under the arm give (clothes, food) kill with teeth (lice) dry up (water) be full of crickets, insects; expel them drown gather, collect, come together obstruct, intercept frown upon, watch with disapprobation play by pinching put in proper place argue, dispute, contradict shine, glare, glitter

*kiriwire, kiripire *kixti, kikti kipi *kipuhs kitpa *kiţa *kitca, kitcua ko, ko., kwo., kwa, kua kome *koliole *kwie, kuie kunile (kupile) kusa *kusinwi *kuxa kuta(s), kuta(r), kutcuru, kuturu *kut•a $krak(\cdot)e, xrak(\cdot)e$

write have pain in throat wink inflate, swell cheeks hide in hollow of a tree make fire with two sticks close, lock with key; open, unlock say tire, become tired rumble, grumble (intestines) whistle smoke (fire) wash meet, encounter, see hide among rocks double, bind, tie

tolerate, suffer, endure name, call

TC

tcai(es) tcaora, tcausara, (tcaura)

*teauri *tcantcane tcala, (tcalsa, tcasali) *tcahel.e, tcehel.e tcapu *tcaka, tcaksa *teak.i, teaxki *tcaku-niti *tcakna-n *teimun, teaimun *tcimu-ni *tcile tcirpi *tcikri-n, tcixri-n tcite *tcitmo *tcoliote *tcorowe tcorok *tcotle tcokse, tcos.o teunu, teuni, tunu; (teun.), tcunuhwi tculu

praise be seated, be (positional substantive) stink, smell bad walk with shoulders raised urinate take the higher part (song) prick, stick, pinch bring, arrive leave, depart hate, desert go ahead treat ill, hinder, impede bump the head ring bell cry, shout reside, live dance prick, punch the eyes water moves in intestines moisten, dampen sadden, become sad be in file or line have pain (in mouth or ear) wrap, extend, shorten, double, lift, fold, unfold jump, spring, leap

*tculki	strangle, choke by squeezing neck
*teuspa	hide
*tcukuri-ni	defecate, void excrement

Adjectives

aul.i austu auxe amaya amank ansi antiwin asia apsie, apsik ateitak atcien atciwa euti el.emo elepis, elewia emxe es.0 etsxe ina in-se irk-ti-o, irx-ti-o isiwa itas, itsa itce owos omxole olsie umulu unxu unkum ursi usula, (usuna) ukumi utcili wartci was.a, waska, waksa wasiwe we-solo, we-yero, we-saro we-tan wetemes.ate wiman witina witcuktel, witcuxtel, wits.u

salty, saline sweet-toothed, gluttonous high, tall nude, naked famous left-handed small distinct, different good so great thievish silly, filthy sweet soft (ground) straight, in file very soft, gentle, easy lewd, unchaste leafless, bare ill, sick lachrymose flatulent newborn new small, little obedient, faithful light, without weight soft, easy filthy, vile snotty, filthy thin, rare big-headed deep-set (eyes) crippled full-lipped, thick-lipped difficult, narrow, small (road) streaked, soiled playful large, great large, great lean, gaunt, thin lazy sticky narrow, small

womo wot.olo yamutsi yatcomas, yatceme yer-se yolto, yot a yopono yusulu mam.oxa, mam.oka, mam.anxa maxulu mata matini, matil·i meilo mex-el, max-ele metske minua misi-min, misi-mpin, misi-a mitile mom-ti-e muretu, murtcu, murtu, murt.cu muse mutimte mutcira natka niotsio noioro noti-ti-o nop-ti-o nuxurikonin, nuxurixonin nutiri laita laskan latem lakte, laxte lexete 1.e-ti-o, 1.e-t.i-o, loito, 1.ok-ti-o lisu, liisu lisnie lit.imo lopote loptco luplupsi lutcuma, luspi, l.uspi, l.utspi, lutspi luteti

bearded deep-set (eyes) unequal, different torn, full of holes torn, old, broken big-eared ruptured fat, pot-bellied foolish, stupid, silly catarrhal, expectorant long-haired large, great large-mouthed blear-eyed cloudy, clouded narrow, difficult (road) pretty, nice, pleasant, beautiful, good curved, crooked, bent slow, late, tardy dark, black, like night full-breasted fat-buttocked pleated dark, black short, bob-tailed big-footed lying, untruthful short in time, quick flat-nosed big-nosed long in time, tall, high, long even, smooth, plain long, large-tongued big-headed long, tenuous, stringy (phlegm) soft. easy, loose, not hard toothless, gums empty, clear wet (hair) firmly resolute ruptured equal, straight, untwisted wet hair

big-bellied, hairless

1916]

rauta

rinta riski ritca ritcua rikti romso ropto roteitco, ritera, roteiko rutis rutai saure, (sauri) saru saxirinme satara siat.cara sieperero simke sitl.u, sit.ia somsie sotolo, sokolo, sotitco supiri sup.u xan.an xalea xas, xase xaska xat-xatsi, xat-xasti xemtso xene xel-wen xetoesi xetsxe xitsu, xitsiu xontce, xonxontce xos-ti-o, xoiskore xo-ti-es xo-ti-o, xoie xotpe, xot.iko xotsu xokoi(o) hituktei, hituxtei howos hoxehen humulu husiero

with big occiput, back of head thin, lean flat-nosed liberal, frank, generous, beneficent silly, foolish, stupid protruding (eyes) granular dirty-eyed blear-eyed open, uncovered, excavated congealed fat, greasy ruptured sweet, odoriferous unclean clear, rare, thin woolly, fleecy, hairy silent small, young lewd, unchaste big-lipped, large-mouthed watered like a bladder, blister married blind brave, fierce brunet, dark-skinned clean, well-swept silent unequal content, satisfied leafless, sharp-pointed, keen tired, worn-out insipid, tasteless empty, void (mussels), melancholy, crestfallen light, with little weight foolish, silly loose, hanging bare, without fruit with deep-set eyes and bushy eyebrows scabby, itchy mixed, intricate well-served tardy, late black big-mouthed

University of California Publications in Am. Arch. and Ethn. [Vol. 11

huklemesate paine paisa pal(.)ka patka pel.emo, pelsiek, pelek pelo (Sp.?) pelso pertewe pitko polso polpol-si porsie porko poxolo potsinle potxe potco puntu, putur pultci-te putarte put-u, pultu, polto putcete tamtcite tasiri taxarute taxara tap.an tapta tepte tirsi, tirtci tirsia tixima, tilto tikili titira, titiru towo-ro torte to-ti-o tokolo tokororoi tumuru tupsiu taila tanara

tasku, tasas

delicate, fine, light bloody good at running white pink, flesh-color, red, cream soft bald, hairless garrulous soft (bread) pot-bellied painted, colored pinto, spotted, full of points, streaked trained (maker of unusual things) artistic prominent, bulging, protruding (eyes) smokeless (fire) light, little weight quick, active big-bellied, with much intestines full-breasted newly-born extremely protruding, bulging (eyes) anxious, desirous partly painted, colored hard, tough drunken, reeling in file, in a line, straight good serious shady clear, limpid, pure large-buttocked high-browed, with a large forehead large-eyed twisted, rounded shivering with cold ashy, ash-colored silly, foolish, lying, untruthful syphilitic smooth, straight, even fat humpbacked, crooked, bent, curved dwarfed spotted pink, flesh-colored, red

taxiale tata tak∙i takurute tesele tomto tonko tok i-ti-e tuiuru tutuare tutuna kai-nawin kavi kaltcitce kasl.u katitu katili kakxa, kax.a kel(sie) kelte kero kexil on ketciwesi kirsi, kits-i kipi, kipiri kipuroro, kiwuroro kititae kits.u koro kuinu, kwinu kuti kutis kutcs-kets.i tcal-ti-a tcalka tcarka tcarki tcakulsi, tcuki tcese, tcixu tcekere tcirti tcisire tcomelei tcoxisi, tcopsoxsi, tcopsoksi tcoxorore, tcokere tcopolotesi tcuierte tcupea tcutsu, tcutu

clear, limpid, pure rich, well supplied with garments heavy with fruit (trees) clear, thin, full of holes pink below with loose clothes big-footed good at running, swift wrinkled blunt-nosed small-eved narrow, difficult, small strong, pungent loud-voiced small-headed pot-bellied, fat with prominent teeth bitter raw opaque-eyed, blind twisted (tree) hoarse ready, prepared well-painted twisted, not straight, (feet, road) twisted, streaked creaking, grating one-eyed, squint-eyed thin, gaunt, lean narrow (road) small clear very well tied, bound urinous, fond of urinating white clear (sky) quiet, restrained downcast, head downward blue (eyed) torn open, ripped yellow moro provoked, angry, in bad humor cowering, squat pock-marked full of holes open, uncovered adorned, decorated white, flesh-colored green

ADVERBS

Locative Adverbs

an·it, anit, an·i, an·epe,	where?
anta, an	
ansia	distant,
axe	apart, a
emxe	far dow
enenum	out of
esen	behind
ințis, ințo	where?
iti	there, d
ițian, iț ayate	backwa
orpei	in the r
usiun, usionte	further
winimui (wirimui)	below, 1
naxana, nuxana, nuxu	there (f
ne, ni, nia, nitun, niatun,	here, hi
nime	
nu, nua	there (1
lewețes	\mathbf{low}
ramai (resmai)	within
rini	above
rinsiksi	high
sanae, saeanae	hither
sinki	end, edg
xut.ui	before,
tapere	above
ti	there, b
tina (pina), tina-tum,	right he
tina-tun, titun	0
tipilikte, tipilile, tikilakte	round a
titu	on one
kari	outside
	outside

stant, far art, another place r down, very distant, indistinct t of sight hind nere? ere, distant ckward the middle rther on, further low, under ere (farther) re, hither ere (nearer) w thin ove $\mathbf{p}\mathbf{h}$ ther d, edge fore, preceding ove ere, behind th here, close, hence

und about one side tside

Temporal Adverbs

auxaie	yet, still
ameren	a little time, little while
ar, aru	already (past time)
aruta, (arua)	tomorrow
artiskun, atskun	suddenly
at, ara	shortly, soon (near future or re- cent past)
emen	still, yet, although
et, ete, yete, (yote, ikte, iste)	soon (indefinite future)
imi, ima.	always, all the time
in.at, inuat	when?

inya, inyaha, (yu'aha)

ipsiun iti itixsina itma itsia, it ia, itsia, itian, it.iomtum, it.aiate osioi, oisio ume, uni ule wisi wika yas yeteste maran, markum, markutkus maha mes, met naha nua xapuhu, xaputca hokse, hoks huyakse, wiyakse pinawai tabax, taba kane, kaneme ketciwesi, (kotciwesi, kepiresi) kotcop, (koph) kus

kutis, kuti tcien tcira

shortly, at once, (immediate future) a little while, a short time after some time at last, today early in the morning afterward, soon, shortly again, another time when, whenever yet, still, as yet past time vesterday ever, at any time shortly, soon, in a short time future time at once future time today yet, still, although never a long time ago, formerly this afternoon then, therefore, in that case today, day before, earlier than soon, at once, ready

when, whenever in the olden times, once upon a time presently, very soon, a little while now, at once always, continually

Descriptive and Miscellaneous Adverbs

aereis, eraeis aman amane amanis.e amun, amu, amn asaha atpesi ats, ati ewe, ene ewoye, eye, etmoye enohek es.e so, thus, truly so many in truth, truly uninvited (?) in order that, concerning, because truly, certainly good, truly without, no and, but (past desiderative) but (apposition) just as if

1916]

468

(indirect discourse)

esiensen, esiersem exe, xehe, he, lxi, hi, hexe, sexe epaeis, acepaeis epsie, epsik ekwe imatkun, imaten. isap, isu ipsen, utix ortco, yenko usi uksi walte wele wisi vas.e yekere yuta yuta ma mots muisin nan, nami, nani nu at ia nuhilu, nitshim sata sire xatxatci xene-kte xenkots.e xeheresi xetskere xitepu hai, hahi, aiu, aia, hia, hiha pini, pinyi, (pinya) taxe tukne taman kaitis kati, kata, katam kua, kuai, kuawe tciel.e

ves perchance, perhaps no! do not! no, not if (contrary to fact condition) truly, certainly more equally why, because without more ado, heedlessly feet to head and head to feet (substantive?) because also, as well more, much more either . . . or truly tell me! (interrogative) (among them?) perhaps, maybe yes, of course cachibajo like, as if strongly stepping high unequal silently low (voice) crawling strongly and, also (enclitic) perhaps, perchance (interrogative, final position) would that! (past optative) half with this, no more like, resembling, just as if thus high (voice)

INTERJECTIONS

ain., aiun, auin., anin atena rautik eț iske it.ie, iuie give me it! bring me it! shout at middle of dance shout at gambling game wait a moment! come on! let's go!

iklamini oto uruksia(ne) yela, yelamini yuma yupe, yu waras nami, nani lalei linei ranx sotoi sukai xep xine xouwo \mathbf{xuti} tuii tiu kama kari ke kie tcaorak tcit, tcitsk

wait a moment! run! go! would that! (vehement desire) wait a moment! come on! let's go! run! go! upon my life! let's see! we'll see! get out! shout at gambling game shout at beginning of dance shout at gambling game shout at gambling game shout at gambling game look! shout at end of dance shout at gambling game shout of gambling game shout of gambling game look! shout of gambling game listen! look! who knows! shout at gambling game shout at gambling game

POSTSCRIPT

At Pleasanton, California, live a small number of Indians, members of various central Californian groups, gathered here by reason of community of interest. They speak Spanish and Plains Miwok among themselves. A visit was paid them for a few hours in January, 1916, for the principal purpose of securing terms of relationship and notes on social organization. One of the two informants visited proved to be an elderly woman from San Lorenzo and from her a vocabulary of a hundred odd words was secured. A comparison of this with De la Cuesta's Mutsun shows actual identity in many cases. The practical identity of so many words proves first, the phonetic simplicity of the language, the care with which it was recorded and the value of the Spanish language as a medium for the recording of such aboriginal speech; second, the slight change which has taken place in this unliterary language in the past century, and third, the correctness of the recent transcription from Spanish to phonetic orthography. As regards the latter point, the correctness of the transcription of gm and gn to km and kn is demonstrated, while that of gs to xsin accordance with tigsin, tixsin is discounted by the record of tugsus as tuksus. No data were secured to elucidate the problem of gt and other g combinations.

The glossar	y secured follows he	re for purpos	ses of comparison :
oriš	bear	hun	wolf
oto'imin	snake	pīrēwiš	rattlesnake
ma'i yan	coyote	TCukuti'	dog
ha'mui	fish		
a'rwex ^f	oak	Ta'Por.	wood
yu'kiš	live oak	Tiwïš	flower
in	tears	si're	liver
išu	hand	xu.s	nose
urix, uri	hair	hëyek	beard
we'per	mouth	hiñ	eye
mi.'nyix	heart	horko'sa	throat
mōțel, mo•tel	head	Ta.mas	eyebrows
mu.c	breasts	Tim.a ^u x ^f	forehead
las∙e	tongue	Tumiš, tumš	leg, loins
eran ai'	back of neck	Tu-R-	nail
ri.Tuk	intestines	TuKšuš	ear
si.т, sit	teeth	korō'	foot

inux ^w	road	۰ ru′wai	house	
hu't.i	bow and arrow	tepla'i	basket	
nu 0.1	bow and arrow	topia i	DASKEL	
apa.	father	šīnīn	daughter, child	
ana.	mother	ši'nmatc'	small child	
añci	paternal aunt	sulta' ^w u	white people	
aitakiš	woman	ha'uak'	wife	
a'rciakic	virgin	hu'nTate ¹	old man	
ете.	uncle or aunt	РаРа	paternal grand-	
īnīš	son		father	
uetreš	chief, shaman	Taka.	elder brother	
u'xi	mother-in-law	a∙riš	man	
mele.'	$\operatorname{grandmother}$	Tale.	younger sister	
mák o	husband	Ta'•nan	elder sister	
mayin	wife of chief	Tanšikiš	younger brother	
merē'i	father-in-law	kaț ^e netc'	old woman	
mē′riš	daughter-in-law	Kot.co	young man	
muekma	people	tcotco ^u	grandson	
a.we	morning star	yuk.i	ashes	
īrek'	stone	sī	water	
omu'w, omu'x	™sea, arroyo	°šī'.Tic	\mathbf{fog}	
oš∙e′	stars	hi'yis	fire	
warē'p'	land	hišmen	sun	
yo.ko	live coal	Kormei	moon	
uik.ani	yesterday	$hiwe^{i}$	shaman's dance	
ne Tuhi	today	hu.ši'š	tomorrow	
°rī′sīmu	hill near town	ka'n.o	north	
makišmo'. To		it is cloudy		
makiš a'.m ^e ne		it is raining		
yuwa'kne mak¹šamne		it ceased raining		
herwe		it is hot		
kauwi'		it is cold		
lōškōwiš, lošl	⟨o′iš	it is white		
sirke ^w iš		it is black		
pultewis		it is red		
we'ter		it is large		
kutcu'iš		it is small		
šumikiš		give me!		
man.i rōti		where is it?		
rī.TCikmin		shouting of s	haman at dance	
hu'.țukne		he died		
ka'.nak hu'tusin		I am going to die		
me·nem hu·tusĩ ⁿ		you will die		
wa ka hu tusin		he will die		
maki n makhu'tusin		we will die		
makam kamhu'tusin		you (plu.) will die they will die		
	wa.kamakeahu'tusin			
hu'•tukne'ĸ		I have died		

University of California Publications in Am. Arch. and Ethn. [Vol. 11

o'.miš ni'm i' ka'.na ekni'mi oriš me.nek' snimi ma'kam kisni'mi wa'.kamak makisni'mi'sim Ka'.nak to'.fhe ka.na ektca'.u^vra ne ca tca uvra ka na ka'yin pí.n ka'in ka.'iksiksit ka.iksikmo.tel kiška.iktumš KanaK u'tkani ka.naksa'wi ka na ki'ši ka.na kwarka ka.na eki" wi ka.'nakra'pona ka.'nakio'TCyen a'rcišmente ekit' kankana anini.k' hi'ntoka'masin akwet' kinšušte takaa'ma ka-nak tcatce ka.nak.emle ka-nak ete ка.nak i'tma ĸa.nak hō'pe ka.nak e'son ka nak yoken

I am going to kill you I am going to kill the bear you will kill me you (plu.) will kill me they will kill me I run T sit now I sit I am ill he is ill my tooth aches my head aches my back aches I am playing I am singing I am dancing I am weeping I am shouting I am going to stir I am laughing I want to vomit I am hungry I am thirsty I am going to eat I don't know what I will eat I am standing I am lying down I am sleeping I got up I get down I am tired

472

Titles of papers in this volume are printed in **bold-faced** type.

- Acatl (Aztec day-sign), typical form, 306; ornamental form of, 331 fig. 7, 368, 369 fig. 29.
- Accent, stress, mode of emphasis, in language of Germanic origin, and in Kato and other Athabascan dialects, 17.
- Achomawi, 281 footnote 6, 287, 288 footnote 16.
- Adjectives, Mutsun, 425, 461. See also Suffixes.
- Adverbs, Mutsun, locative, 466, temporal, 466, descriptive and miscellaneous, 467.
- Algonkin, 288.
- American Indians, Handbook of, cited, 288.
- Animals, list of names of, in Mutsun language, 427.
- Antigüedades mexicanas, 300.
- Athabascan, 288.
- Athapascan, spoken by Sarsi Indians, 190.
- Atl (Aztec day-sign), typical form, 306; ornamental form of, 331 fig. 7, 357 fig. 22, 358 fig. 23, 359, 360.
- Atlatl, 337, 338 fig. 7, p. 368. Atsugewi, 281 footnote 6, 287, 288 footnote 16.
- Aztec calendar, 300; time-periods in, 300, 302; intercalations in, 300, 317, 319, 320, 328; Venus year, 301, 320; Mercury year, 301; mon not regarded, 301; star-periods, 301; cempoalli, 301, 302; nemontemi, 301; method of making observations, 303; system of dating, 303, and method of writing dates, 309; day-signs, 304, derivation of, 327, deline-ation of symbols in manuscripts, 328; thirteen as a factor in, 308, 313, 323, 324, 326; numerals, 308, 313, 322, 323, 324, 326; Tonalamatl, 310, 311, 315, 325; cycle (fifty-two year period), 314; not devised for chronological records, 315; as a means of soothsaying, 315; index of birthday used for personal name, 315; corrections of, 316, 317,

319; original sources, 318, 319; origin of, 321; twenty as a fac-tor in, 322, 326; probable line of evolution, 327. See also Time-periods, Thirteen, Day-signs. Aztec codices. See Codices, Aztec.

- Aztec manuscripts, delineation of day-signs in, 297; bibliography of, 394. See also Codices, Aztec.
- Aztec mythology, cataclysms in, 379.
- Aztec year, initial day, 312; yearsign, 314; years, 314. cycle of fifty-two
- Baegert, cited, 290.
- Bandelier's papers ancient on Mexican manuscripts, value of, 320.
- Barrett, S. A., cited, 281 footnote 6.
- Bartlett, 280.
- Bear, totem, 295.
- Beaver language, 190.
- Belmar, Francisco, cited, 280, 285; orthography altered, 281.
- Blackfoot Indians, Sarsi associated with, 190; Sarsi stories about, 263, 269.
- Boas, F., cited, 288.
- Boas Anniversary Volume, 303.
- Bologna Codex, 309. Book of Indexes, 310; applied to time-periods, 311.
- "Book of Tributes,' 299. Brinton, D. G., 280, 289; eited, 279, 288.
- British Columbia, relationships of Indian languages of, with Sarsi and Beaver, 190.
- Buffalo hunting, Sarsi texts, 273, 275.
- "Calendar round," fifty-two years period in Maya Calendar, 314.
- Calendar symbols in the manuscripts, delineation of, 328.
- Calendar system of the Aztecs. See Aztec calendar.

- California, Gulf of, 280. California, Lower, 279, 290. California, South Central, social organization of Indians, 291; to be compared to that of Luiseño,

* Univ. Calif. Publ. Am. Arch. Ethn., vol. H. //

Mohave, and Pima, 295; interrelations within its own area, 296.

- California, University of, scientific publications on native Indian languages, 401.
- (Aztec day-sign), typical Calli form, 306; 341, 342. ornamental forms,
- Campo, California, Diegueño dialect spoken at, 177 footnote.
- Cane (Aztec day-sign), typical form, 306; 331, fig. 7. ornamental form,
- Cempoalli, in Aztec calendar, a "period of twenty," 301.
- Chamberlain, A. F., cited, 288.
- Chavero, 300.
- Chemakuan, 288. Chimariko, 281, 285, 286, 287. Chontal. See Tequistlatecan.
- Chumash, 287.
- Chumash and CostanoanLanguages, cited, 421 note 8.
- Gipactli (Aztec day-sign), typical form, 306; ornamental form, 329, 330 fig. 5, 333 fig. 8; sources of drawings, 334.
 Clavigero, original source for study of Aztec calendar, 319.
- Coatl (Aztec day-sign), typical form, 306; ornamental forms, 329, 329 fig. 4, 345 fig. 13.
- Cochimi, proximity of the Seri to, 280.
- Cocopa, 186 footnote 34; fricative x, 180 footnote 10; open vowel compared with Mohave and Diegueño, 184footnote 20: proximity of the Seri to, 280.
- Codex, Bologna, 309; Borbonicus, 300; Tro-Cortesian, 323; Vatican A, 320; Zapotec, 299.
- Codices, Aztec, publication of by Lord Kingsborough, 299; numerals in, 308.
- Costanoan, Mutsun dialect of, 399, 400; structure, 402; phonetic system, 402; vowels, 402; con-sonants, 402; sonant g missing, 403.
- Cozcagauhtli (Aztec day-sign), typical form, 306; ornamental form, 364 fig. 26, 375 fig. 33, 376.
- Cree, 261, 269.
- Crowchief, Charlie, interpreter, 190.
- Cuesta, Father Felipe Arroyo de la, the Mutsun dialect of Costanoan based on vocabulary of,

399; collection of Mutsun words, phrases, and sentences, 400, 470; Mutsun grammar, 401, 420, 421.

- Cuetzpalin (Aztec day-sign), typical form, 306; or forms, 343, 344 fig. 12. 306; ornamental
- Curo, Rosendo, Diegueño Indian, 177.
- Cycle, fifty-two year period in Az-tec calendar, 314.
- Dates, in Aztec calendar, system of, 303; method of writing, 309; date of birthday used for personal name, 315.
- Day-names, Áztec, 305. Day-signs in Aztec manuscripts, delineation of, 297; typical forms, 306; year named after initial day-sign, 312; dominical, 312; local varieties, 321; se-quence of, 330; convergence, 331, 354, 355, 362; ornamental forms, figures of: Snake, 306, 200 245 246; Wester Montheau Start forms, figures of: Snake, 306, 329, 345, 346; Water-Monster, 306, 330, 333; Rain, 306, 331, 885, 386 fig. 36; Flower, 306; Cane, 306, 368 fig. 28; Grass, 306, 364; Wind, 306, 338, 389 fig. 37, 390; House, 306, 341; Lizard, 306, 344; Death, 306, 347, 350; Deer, 306, 351, 352, 354, 355; Rabbit, 306, 353, 354, 355, 356: Water, 306, 331, 337 355, 356; Water, 306, 331, 337 fig. 22, 358 fig. 23, 359, 360; Dog, 306, 361 fig. 24, 362; Dog, 306, 361 ng. 24, 362; Monkey, 306, 363, 364, 365 fig. 27, King-Vulture, 364 fig. 26, 375 fig. 33; Ocelot, ocelotl, 306, 370, 372 fig. 31; Eagle, 306, 373 fig. 32, 374; Motion, 306, 377, 378 fig. 34; Flint, 306, 381 fig. 35, 382; borrowing of char-catoristics between 301 fig. 38 acteristics between, 391 fig. 38, 392.
- Day-symbols in Aztec calendar, 305; derivation of, 327; delineation of, 328.
- Death (Aztec day-sign), typical form, 306; ornamental forms, 347, 350 fig. 15. See Skull. Deer (Aztec day-sign), typical form, 306; ornamental forms, 251 of 6 and 25 for 17 and
- 351, 352 fig. 16, 354 figs. 17 and 18, 355 figs. 19 and 20.
- Deer totem, 295.
- Delineation, The, of the Day-Signs in the Aztec Manuscripts, 297.
- Diegueño Language, Phonetic Elements of the, 177.

- Diegueño language, phonetic elements of, compared with Mo-283, 284; unaccented have,
- vowels, 284. Dixon, R. B., cited 279, 281 foot-note 6, 285, 286, 287, 288 footnote 16.
- Dog (Aztec day-sign), typical form, 306; ornamental forms, 361 fig. 24, 362. Dominical day-signs, 312.
- Eagle (Aztec day-sign), typical form, 306; ornamental forms, 373 fig. 32, 374.
- Eagle-ribs, Sarsi informant, 191; story about, 223; war deeds of, 269.
- Eagles, in Sarsi texts, 277.
- Edmonton, Canada, 257.
- Ehecatl (Aztec day-sign), typical form, 306; ornamental forms, 337, 338 fig. 9.
- Elements of the Kato Language, 1.
- Enclitics in the Mutsun language, 426.
- English, parts of speech, 405.
- Esselen, 281, 286, 287.
- Fabrega, José, original source for study of Aztec calendar, 319.
- Flint (Aztec day-sign), typical form, 306; ornamental form, 381 fig. 25, 382.
- Flower (Aztec day-sign), typical form, 306; ornamental form, 331 fig. 7, 389 fig. 37, 390.
- Förstemann cited, 301; on element of thirteen in Aztec calendar, 323, 324, 325.
- Fortes, member of dental series of stops in Kato language, 10.
- Gender, in Mutsun language, 408. Genitive case of Mutsun nouns,
- 410.
- Goddard, P. E., 1, 189. Goodman, cited on the tonalamatl in the Aztec calendar, 326.
- Grass (Aztec day-sign), typical form, 306; ornamental forms, 331 fig. 7, 364, 366 fig. 28.
- Haida, 288.
- Harrington, J. P., 177; cited, 287. Henshaw, H. W., cited, 288.
- Hernandez, F., work on Guerra del
- Yaqui, 280.
- Hewitt, J. N. B., cited, 280. House (Aztec day-sign), typical form, 306; ornamental forms, 341.
- Humboldt, original source for study of Aztec calendar, 319.

- Indo-European, 286; model categories, 418.
- Inflection in Mutsun language, 408.
- "Intercalations" in Aztec calendar system, 300, 317, 319, 320, 328.
- Interjections, Mutsun, 468.
- International Phonetic Association, 184 footnote 20.
- Iroquois, 289.
- Itzcuintli (Aztec day-sign), typical form, 306; ornamental forms, 361 fig. 24, 362. Ixtlilxochitl, Fernando de Alva,
- original source for study of Aztec calendar, 319.
- Karok, 281, 286. Kato language, elements of, 1; stress accent in, 17.
 - Phonology:
 - Individual sounds: vowels, 4, semi-vowels, 5; continu-ants: liquids, 5, nasals, 6, figures of, opp. 92, 94; spirants, 7, figures of, opp. 88, 90, 96; stops: labial, 9, figures of, opp. 98; dentals (fortes), 9, figures of, opp. 100; palatals, 11, figures of, opp. 102, 104; reloc 12; of, opp. 102, 104; velar, 12; glottal, 12, 13; affricatives, 13, figures of, opp. 106; table of sounds, 13; com-parison of Kato and Hupa sounds, 14; assimilation of sounds, 17.
 - Modification of syllables, 17. Morphology:
 - Nouns: simple, monosyllabic, 19; figures of, opp. 110; with possessive prefixes, 21, figures of, opp. 112, 114; parts of the body, 21; cloth-
 - ing, 23; relatives, 23. With suffixes, 23, figures of, opp. 116, 118; plural and class suffixes, 24; locative suffixes, 24; suffix with in-strumental meaning, 26; suffixes of temporal-modal force, 26; suffixes of size, shape, and color, 26.
 - Nouns compounded with nouns: first noun qualifies the second, 27; with pos-sessive prefix for second component, 27; with second component modifying the first, 27.

- Nouns compounded with adjectives, 28, with verbs, 29; adjectives and verbs used as nouns, 29; figures of, opp. 124; verbs with instrumental prefix used as nouns, 31, figures of, opp. 132, 134; polysyllabic nouns unanalyzed, 31; figures of,
- opp. 120, 122, 126. Pronouns, personal, 32; personal demonstratives, 33; demonstratives, 34; interrogative and indefinite pronouns, 34; figures of, opp. 130.
- Adjectives, 35; pronominal, 35.
- Numerals, 36; cardinals, 36; multiplicatives, 36; distributives, 36.
- Directional words, 37.
- Adverbs, place, 38; time, 38; manner and degree, 39; figures of, opp. 128, 130.
- Postpositions, 39; particles and interjections, 41.
- Verbs, 42.
 - Prefixes, first position, 42; adverbial, 43; deitic, 49, 51; objective, 51; first modal, 52; second modal, 53; subjective, 55; third modals, 57.
 - Stems, 59.
 - Suffixes, 80; source of information, 80; modal, 81; temporal, 83.
 - modes, Tenses and 84; table of analyzed verbs, 85.
- Tracings of speech, interpreta-tion of, 86; lateral sonant and spirant, 88, 90; nasals, 92, 94; spirants, 96; labial stop and nasal, 98; dental stops, 100; sonant palatal stops, 102;surd palatal stops, 104; affricatives, 106; miscellaneous, 108; monosyllabic nouns, 110; nouns with possessive prefixes, 112, 114; nouns with suffixes, 116, 118; polysyllabic nouns, 120, 122, 126; nouns of verbal origin, 124; adverbs, par-ticles, etc., 128; pronouns, adverbs, 130; prefixes of verbs, 132, 134; verbal prefixes, subjectives and objectives, 136; verbal suffixes, 138; suffixes of verbs, 140; verbal stems,

- King-vulture (Aztec day-sign) typical form, 306; ornamental form, 364 fig. 26, 375 fig. 33, 376.
- Kingsborough, Lord, publication of Aztec "codices," 299. Kroeber, A. L., 177, 279, 401; cited, 403 note 6, 421 note 8.
- Kuyahomar, 181 footnote 16. Kwayu, 181 footnote 16.

- La Posta, 177. Leon y Gama, Antonio, original source for study of Aztec calendar, 319.
- Library of American Linguistics, 400.
- Lizard (Aztee day-sign), typical form, 306; ornamental forms, 343, 344 fig. 12.
- Loustanou, 280. McGee, W J, monograph on the Seri, 280.
- Magic, famine relieved by, 251; practice of, 253.
- Maguey, 299. Malinalli (Aztec day-sign), typical form, 306; ornamental form, 331 fig. 7, 364, 366 fig. 28. Manual de los ministros de las
- Indias, 301.
- Manuscripts, Aztec, 299. See also, Codices, Aztec.
- Manzanita, 177. Maricopa, fricative x, 180 footnote 10.
- Mason, J. A., 399.
- Maya calendar, 314. Mazatl (Aztec day-sign), typical form, 306; ornamental forms, 351, 352 fig. 16, 354, figs. 17 and 18, 355 figs. 19 and 20.
- Mesa Grande, San Diego County, 177, 179 note 9.
- Mexican Antiquities, 299, 332.
- Mexico, 288.
- Miquiztli (Aztec day-sign), typical form, 306; ornan forms, 347, 350 fig. 15. ornamental See also Skull.
- Modal categories, Mutsun, 418.
- Mohave, comparison of Diegueño with, 177, 178, 180, 181, 182, 183, 184, 185; representative of Yuman group, 281; w of, 282; k, and θ of, 283, 284; other dialectic comparisons, 285, 286, 287.

476

- Monkey (Aztec day-sign), typical form, 306; ornamental forms, 363, 364, 365 fig. 27.
- Monterey, California, 400. Monterey County, California, 295.
- Monumentos del arte mexicano antiguo, 299.
- Morning-star, mentioned in Aztec manuscript, 303.
- Morphology of the Kato language. See Kato language, elements of. Reduplication in Mutsun, 408.
- Motion (Aztec day-sign), typical form, 306; ornamental form, 377, 378 fig. 34. ''Motolinia'' (To
- (Toribio de Benevente), original source for study of Aztec calendar, 319.
- Mutsun Dialect, The, of Costanoan Based on the Vocabulary of De La Cuesta, 399.
- Mutsun language, 400, 401; structure, 402; phonetic system, 402; vowels, 402; consonants, 402; phonetic laws, 405; de la Cuesta's collection of words, phrases, and sentences, 400, 470; his grammar, 401, 420, 421. Parts of Speech, 403.
- - Nouns, 403, 405; suffixes, 406, 410; inflections, 408; gender, 408; grammatical person, 410; genitive case, 410; class-408; ified lists, 427-439.
 - Pronouns, 411, 439; demonstrative, adjectival, and interrogative, 440; lists of, 439, 440.
 - Verbs, 411, 441; suffixes, 412; reduplication of verbal stems, 412; modal categories, 418; relations implying motion, 420; negative particle, 423; lists of, 441-461.
 - Adjectives, 425, 461; suffixes, 425, 426; lists of, 461-465.
 - Particles, 426; enclitics, 426.
 - locative, Adverbs, temporal, 466; descriptive and miscellaneous, 467.
 - Interjections, 468-469.
 - See also Suffixes, Numerals.
- Nahuatlan, 288.
- Nejo, Isidro, 179.
- Nemontemi, in Aztec calendar, 301, 302.
- Nose-plug, used in delineation of Aztec day-signs, 335, 373.
- Numerals in the Athapascan dialects, 36; in the Aztec calendar, 308, 313, 322, 323; list of, in the Mutsun language, 439.

- Nuttall, Mrs. Z., cited, 303; on initial day-signs in Aztec calendar, 312; original source for study of Aztec calendar, 319.
- Oaxaca, Tequistlatecan idiom of, 279; Belmar's work on, 280.
- Ocelot, Ocelotl (Aztec day-sign) typical form, 306; ornamental forms, 370, 372 fig. 31.
- Olin (Azteć day-sign), typical form, 306; ornamental form, 377, 378 fig. 34.
- Onorato, Digueño Indians, 177.
- Oregon, 288.
- Orozco y Berra, Manuel, original source for study of Aztec calendar, 319.
- Ozomatli (Aztee day-sign), typical form, 306; ornamental forms, 363, 364, 365 fig. 27.
- Pala, 177.
- Palaihnihan, 288 footnote 16.
- Particles in the Mutsun language, 426.
- Peace River, Canada, 190.
- Peñafiel, A., 280, 299.
- Penutian, contrasted with Hokan, 286; new family, 288, 401.
- Phonetic Elements of the Diegueño language, 177.
- Phonology of the Kato language. See Kato language, elements of. Piegan, 259.
- Piman, 288.
- Pinart, A., 280.
- Pleasanton, California, Indians at, 470.

- Pomo, 281, 286, 287. Powell, J. W., cited, 288. Prefixes, in the Kato language. See Kato language, elements of.
- Quauhtli (Aztec day-sign), typical form, 306; ornamental forms, 373 fig. 32, 374.
- Quetzal-coatl, Aztec wind-god, 307; represented by day-sign, Wind, 337; realistic drawing of, 338 fig. 9, q; figure of face, 340
- Gig. 10; ear-ornament, 377. Quiahuitl (Aztec day-sign), typi-cal form, 306; ornamental forms of, 331, 385, 386 fig. 26.
- Rabbit (Aztee day-sign), typical form, 306; ornamental forms, 353, 354 figs. 17 and 18, 355 figs. 19 and 20, 356 fig. 21.
- Rain (Aztec day-sign), typical form, 306; ornamental forms, 331, 385, 386 fig. 36. Ray, Bill, vocal tracings of Kato
- language, 3.

- Rousselot apparatus, 190.
- Sahagun, Bernardino de, 300, 318; cited, 303.
- Salidon, Diegueño, Indian, 177. Salinan, 287; totems, 295.
- San Diégo County, California, 177. Salishan, 288.
- San Felipe, California, 177.
- San Juan Bautista, Mission, California, 400.
- San Lorenzo, California, 470.
- Sapir, E., cited, 281 footnote 6, 288.
- Sarsi Texts, 189; key to sounds, 191; Sun Dance, 193; prayers, 197, 227, 233; hair parters, 197; counting of coups, 203, 269; clog feast, 209; societies, 215; qualifications and duties of chiefs, 215; shamans, 217; sports, 219; painting of tipis, 219; buffalo pounds, 221; trapping beaver, 219; primitive dishes, 221; stone arrowheads, 223; What Eagle-Ribs Saw at Edmonton, 223; planting tobacco, 227; Buffalo Bill Gives a Shield, 231; painted tipi, 243; buffalo stone, 243; famine relieved by magic, 251, by Broken Knife, 253; Two Hawks Test Their Speed, 263; water-being, 267; ghost, 269; grasshopper, 273; buffalo-hunting, 273, 275, eagles, 277. Seler, Edward, cited, 301, 303; on initial day-signs in Aztec calen-
- dar, 312 note 22; original source for study of Aztec calendar, 319; on element of thirteen in Aztec calendar, 323, 324, 325; investigations of Mexican chronology, 327; criticism of conclusions, 335, 336.
- Serian, Tequistlatecan and Ho-kan, 279.
- Serna, Jacinto de la, cited, 301; original source for study of Aztec calendar, 319.
- Shasta, language, 281, and footnote 6, 286, 287, 288 footnote 16.
- Shea, J. G., Costanoan manuscripts, published by, 400, 405.
- Shoshonean, 179 note 9, 288, 291, 292.
- Siguenza, Carlos, original source for study of Aztec calendar, 319.
- Sioux, story of Sarsi boy's escape from, 259.

- Skull, representation of in Aztec day-signs, 348, 349, 350; real-istic drawing of, 350.
- Snake (Aztec day-sign), typical form, 306; ornamental forms, 329, 329 fig. 4, 345 fig. 13, 346.
- Sonora, relation of Seri language of, to Tequistlatecan and Yuman, 279.
- Spanish spoken by some Indians in California, 470.
- Spanish j compared to Yuman developments, 180 footnote 10.
- Spanish orthography used for expressing Costanoan sounds, 401, 402, 403.
- Star-periods in Aztec calendar system, 301.
- Stops in the Kato language. See Kato language, elements of.
- Suffixes in the Kato language. See Kato language, elements of.
- Suffixes of Mutsun adjectives: adjectival, 425, 426; infix occa-sionally found before, 426.
- Suffixes, of Mutsun nouns:
 - Etymological: resultative, 406; infinitive, 406; causative, 406; abstractive, 406; instrumental, 406, 407; agentive, 407; nominal, 407.
 - Morphological: plural, 408; compositional, 409; partitive, 409; terminative, 409; objec-tive, 409; instrumental, 409; locative, 410; comitative, 410; regressive, 410.
- Suffixes, of Mutsun verbs:
 - Etymological: possessive, 412; 421;purposive, imitative, 412; dative, 413; substantive, 413; oppositional, 413; excessive, 413; corporeal, 413;mandatory, 414.
 - Morphological: indefinite, 415; past tense, 416; intransitive, 416; transitive, 417; reflexive, 417; reciprocal, 417; passive voice, 418; future passive, 418; perfect passive, 418; imperative, 419; missionary imperative, 419;subjunctive, 419; hypothetical, 419; conditional, 419; iterative, 420; mandative, 420; purposive motion, 421; prohibitive, 421; "excellentive," 421; beneficial, 422; perfect transitive, 422; adjectival, 422, 423; perfect intransitive, 423.

- Swanton, J. R., cited, 288.
- Taylor, A. S., 400.
- Tcagucagga, a wise Sarsi, 427.
- Tecpatl (Aztec day-sign), typical form, 306; ornamental form, 381 fig. 35, 382. Tehuantepec, California, 279.
- Tenochio, 280.
- Tezozomoc, cited, 303.
- Thirteen, as a factor in Aztec calendar, 308, 313, 323; importance origin, 324; Förstemann's theory of origin, 324, 325; Seler's hy-pothesis of origin, 324, 325; factor in the tonalamatl, 326.
- Thomas, Cyrus, 299, on vigesimal numeral system in Aztec calendar, 322; on element thirteen in Aztec calendar, 323. Thomas, C., and Swanton, J. R.,
- map of linguistic stocks of Mex-ico, 280. Tiger (Aztec day-sign), 306. Time-periods in Aztec calendar
- system, 300; method of determining, 302.
- Tlaloc, rain-god, 385.

Tlingit, 288.

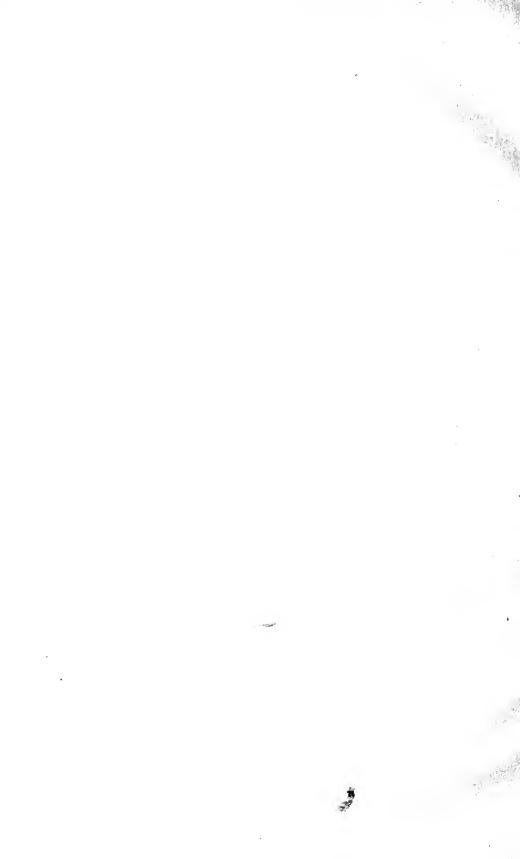
- Tochtli (Aztec day-sign), typical form, 306; ornamental forms, 353, 354 figs. 17 and 18, 355 figs.
- 19 and 20, 356 fig. 21. Tonalamatl, 310, 311, 315, 325; factors thirteen and twenty in, 326.
- Torquemada, Juan de, original source for study of Aztec calendar, 319.
- Totems, among Salinan Indians, possible significance of, 295.
- Tro-Cortesian Codex, 323.
- Troncoso, original source for study of Aztec calendar, 319.
- Twenty, as factor in Aztec calendar, 322, in the tonalamatl, 326.
- Uto-Azetaken, 286.
- Vatican Code A, 320.

- Venus year in Aztec calendar, 325. Vigesimal numeral system in Aztec calendar, 322, 323.
- Waikuri language, 290.
- Wakashan, 288.
- Walapai, 184.
- Water (Aztec day-sign), typical form, 306; ornamental form, form, 306; ornamental form, 331 fig. 7, 357 fig. 22, 358 fig. 23, 359, 360.
- Water being, in Sarsi texts, 267.
- Water-monster (Aztec day-sign), typical form, 306; ornamental form, 329, 330 fig. 5, 333 fig. 8; sources of drawings, 334; resemblance to snake, 335.
- Waterman, T. T., 297; cited, 179, 180, 181, 184.
- Wind (Aztec day-sign), typical form, 306; ornamental forms, 337, 338 fig. 9; used to repre-Wind-god, sent Quetzal-coatl, 337.
- Wind-god, Quetzal-coatl, 307; rep-resented by day-sign Wind, 337; realistic drawing of, 338 fig. 9, q; figure of face, 340 fig. 10. Wiyot, 288.
- Xochitl (Aztec day-sign), typical form, 306; ornamental form, 331 fig. 7, 389 fig. 37, 390. Yana, 281, 286, 287. Yaqui, Hernandez's work on, 280.

- Year sign, in Aztec calendar, 314. See Aztec year.
- Yokuts, kinship system, 292.
- Yuma, fricative x of, 180 footnote 10; open vowel compared with Mohave and Diegueño, 184 note 20.
- Yuman, 283, 284, 290; Diegueño and Mohave as members of, 177; genetic connection with Seri and Tequistlatecan, 279, 280, 287; Mohave representative of, 281.

Yurok, 288.

"Zapotec Codex," 299.



UNIVERSITY OF CALIFORNIA PUBLICATIONS-(CONTINUED)

Vol. 7.	1. The Emeryville Shellmound, by Max Uhle. Pp. 1-106, plates 1-12, with 38 text figures. June, 1907	1.25
	2. Recent Investigations bearing upon the Question of the Occurrence of	1.40
	Neocene Man in the Auriferous Gravels of California, by William J. Sinclair. Pp. 107-130, plates 13-14. February, 1908	.35
	3. Pomo Indian Basketry, by S. A. Barrett. Pp. 133-306, plates 15-30, 231 text figures. December, 1908	1.75
-	4. Shellmounds of the San Francisco Bay Region, by N. C. Nelson. Pp. 309-356, plates 32-34. December, 1909	.50
	5. The Ellis Landing Shellmound, by N. C. Nelson. Pp. 357-426, plates	
	36-50. April, 1910 Index, pp. 427-443.	.75
Vol. 8.	1. A Mission Record of the California Indians, from a Manuscript in the	
	Bancroft Library, by A. L. Kroeber. Pp. 1-27. May, 1908	.25
	68, plates 1-15. July, 1908	75
	fornia, by Constance Goddard Dubois. Pp. 69-186, plates 16-19.	
	June, 1908 4. The Culture of the Luiseño Indians, by Philip Stedman Sparkman.	1.25
	Pp. 187-234, plate 20. August, 1908	.50
	ber. Pp. 235-269. September, 1909 6. The Beligious Practices of the Diegueño Indians, by T. T. Waterman.	.35
	Pp. 271-358, plates 21-28. March, 1910	.80
	Index, pp. 359-369.	
Vol. 9.	1. Yana Texts, by Edward Sapir, together with Yana Myths collected by Roland B. Dixon. Pp. 1-235. February, 1910	2.50
	2. The Chumash and Costanoan Languages, by A. L. Kroeber. Pp. 237- 271. November, 1910	.35
	3. The Languages of the Coast of California North of San Francisco, by A. L. Kroeber. Pp. 273-435, and may. April, 1911	1.50
	Index, pp. 437-439.	
Vol. 10.	1. Phonetic Constituents of the Native Languages of California, by A.	
	L. Kroeber. Pp. 1-12. May, 1911	.10
	Waterman. Pp. 13-44, plates 1-5. November, 1911 3. Phonetic Elements of the Mohave Language, by A. L. Kroeber. Pp.	.45
	45-96, plates 6-20. November, 1911	.65
	4. The Ethnology of the Salinan Indians, by J. Alden Mason. Pp. 97- 240, plates 21-37. December, 1912	1.75
	5. Papago Verb Stems, by Juan Dolores. Pp. 241-263. August, 1913 6. Notes on the Chilula Indians of Northwestern California, by Pliny	.25
	Earl Goddard. Pp. 265-238, plates 38-41. April, 1914 7. Chilula Texts, by Pliny Earle Goddard. Pp. 289-379. November,	.30
	1914 Index, pp. 381-385.	1.00
V ol. 11.	1. Elements of the Kato Language, by Pliny Earle Goddard. Pp. 1-176,	
* VI. 11.	plates 1-45. October, 1912	2.00
-	2. Phonetic Elements of the Diegueño Language, by A. L. Kroeber and J. P. Harrington. Pp. 177-188. April, 1914	.10
	 Sarsi Texts, by Pliny Earle Goddard. Pp. 189-277. February, 1915 Serian, Tequistlatecan, and Hokan, by A. L. Kroeber. Pp. 279-290. 	1.00
	February, 1915	.10
	ward Winslow Gifford. Pp. 291-296. February, 1916	.05
	Waterman. Pp. 297-398. March, 1916 7. The Mutsun Dialect of Costanoan Based on the Vocabulary of De la	1.00
	Cuesta, by J. Alden Mason. Pp. 399-472. March, 1916	.70
1	Index in preparation.	
Vol 19	1 Composition of California Shellmounds by Edward Winslow Gifford	

Pp. 1-29. Fe? Juary, 1916

.30

UNIVERSITY OF CALIFORNIA PUBLICATIONS-(CONTINUED)

Volumes now completed:

Volume Volume Volume Volume Volume Volume	2. 3. 4. 5. 6. 7. 8.	1903-1904. 378 pages and 30 plates	3.50 3.50 3.50 3.50 3.50 3.50 3.50
		1910-1911. 439 pages	
Volume	10.	1911-1914. 385 pages and 41 plates	3.50

Note.—The University of California Publications are offered in exchange for the publications of learned societies and institutions, universities and libraries. Complete lists of all the publications of the University will be sent upon request. For sample copies, lists of publications or other information, address the Manager of the University Press, Berkeley, California, U. S. A. All matter sent in exchange should be addressed to The Exchange Department, University Library, Berkeley, California, U. S. A.

- AGRICULTURAL SCIENCES.—E. B. Babcock, J. W. Gilmore, and C. B. Lipman, Editors. Price per volume, \$3.50. Volumes I and II in progress.
- ASTRONOMY.--W. W. Campbell, Editor. (Lick Observatory, Mt. Hamilton, Cal.) Publications of the Lick Observatory.---Volumes I-XII completed.
- BOTANY.-W. A. Setchell, Editor. Price per volume \$3.50. Volumes I (pp. 418), II (pp. 360), III (pp. 400), and IV (pp. 397) completed. Volumes V and VI in progress.
- CLASSICAL PHILOLOGY.—Edward B. Clapp, William A. Merrill, Herbert C. Nutting, Editors. Price per volume \$2.00. Volume I (pp. 270) completed. Volume II in progress.

EDUCATION .- Edited by the Department of Education. Price per volume \$2.50.

ENGINEERING.-Edited under the direction of the Engineering Departments. This series will contain contributions from the Colleges of Mechanics, Mining, and Civil Engineering. Volume I in progress.

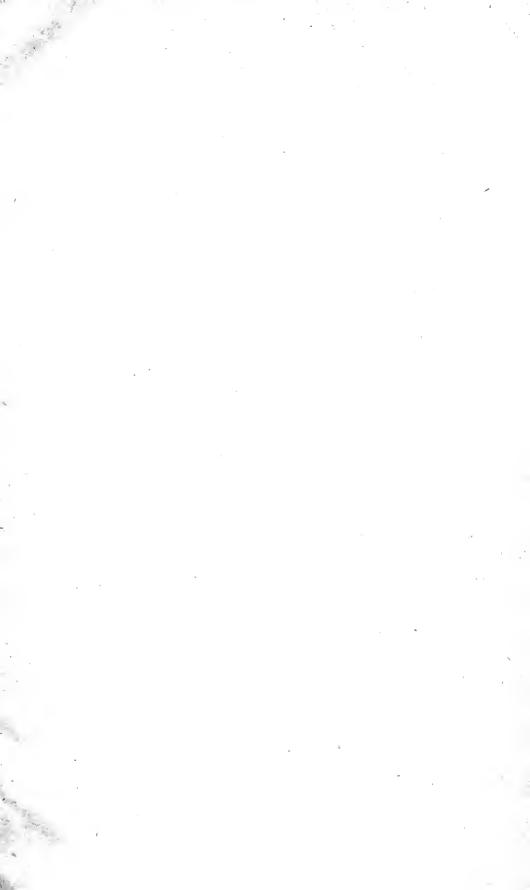
GEOGRAPHY .-- Ruliff S. Holway, Editor. Volume I in progress.

- GEOLOGY.—Bulletin of the Department of Geology. Andrew C. Lawson and John C. Merriam, Editors. Price per volume \$3.50. Volumes I (pp. 435), II (pp. 457), III (pp. 482), IV (pp. 462), V (pp. 458), VI (pp. 454), VII (pp. 504), and VIII (pp. 583) completed. Volume IX in progress.
- MODERN PHILOLOGY.--Volumes I (pp. 400) and II (pp. 373) completed. Volumes III and IV in progress.
- PATHOLOGY.—Frederick P. Gay, Editor. Price per volume, \$2.50. Volume I (pp. 347) completed. Volume II in progress.
- PHILOSOPHY.-G. H. Howison, Editor. Volume I (pp. 262) completed. Volume II in progress. Price per volume \$2.00.
- PHYSIOLOGY.—S. S. Maxwell, Editor. Price per volume \$2.00. Volumes I (pp. 217), II (pp. 215), III (pp. 197), and IV (pp. 228) completed. Volume V in progress.

PSYCHOLOGY.-George M. Stratton, Editor. Volume I in progress.

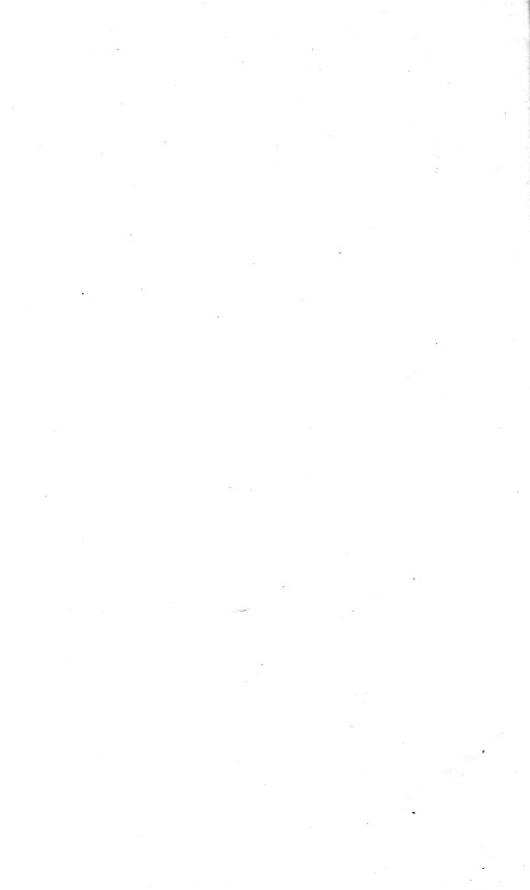
- ZOOLOGY.—W. E. Ritter and C. A. Kofoid, Editors. Price per volume for volumes I-X, \$3.50; for volume XI and following, \$5.00. Volumes I (pp. 317), II (pp. 382), III (pp. 383), IV (pp. 400), V (pp. 440), VI (pp. 478), VII (pp. 446), VIII (pp. 357), IX (pp. 365), X (pp. 417), and XI (pp. 538) completed. Volumes XII to XVI inclusive in progress.
- UNIVERSITY OF CALIFORNIA CHRONICLE.—An official record of University life, issued quarterly, edited by a committee of the Faculty. Price, \$1.00 per year. Current volume No. XVIII.

Address all orders or requests for information concerning the above publications to The University Press, Berkeley, California.











.

