
The Huntington California Expedition.

Anthropometry of Central California.

By FRANZ BOAS.

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IV.—ANTHROPOMETRY OF CENTRAL CALIFORNIA.

By FRANZ BOAS.

PLATES L.—LVIII.

THE material for the following study was collected by Dr. Roland B. Dixon in 1899 and 1900 in connection with the work of the Huntington California Expedition, and by Mr. V. K. Chesnut in 1892 and 1893 in connection with the extended anthropometrical investigation carried on under the direction of the writer for the Anthropological Department of the World's Columbian Exposition, under authority of Prof. F. W. Putnam, Chief of the Department.

Mr. Chesnut's first measurements were taken in August, 1892, in the Round Valley Reservation. The results seemed so peculiar that I feared some error of method might have vitiated them. For this reason I asked Mr. Chesnut to re-visit the reservation, repeat the measurements, and obtain an additional series. This second series of observations were taken in January, 1893.

The following table shows the results of Mr. Chesnut's measurements on the same individuals. The first figure in each column represents the first measurement; the second figure, the amount to be added to the first measurement to obtain the second.

No.	Length of Head.	Breadth of Head.	Width of Face.	Height of Face.	Height of Nose.	Width of Nose.
<i>Males.</i>						
5	182 + 2	150 - 2	146 + 3	122 - 4	53 - 5	44 + 0
30	193 + 2	152 - 2	150 - 3	118 + 0	50 - 2	40 + 0
34	209 - 9	155 + 2	144 + 3	123 - 2	55 - 1	43 + 1
78	187 - 1	163 + 2	151 + 2	123 - 4	55 - 2	42 + 1
98	181 + 3	152 - 2	138 + 3	111 + 1	52 - 5	41 + 1
104	188 - 1	157 + 0	146 - 7	110 + 0	47 + 1	42 + 2
155	195 + 2	160 - 1	147 + 5	123 + 2	58 - 1	42 - 2
190	192 + 2	155 - 3	142 + 0	112 + 3	49 - 4	39 + 0
201	174 + 2	143 + 1	117 + 3	86 + 2	35 - 1	32 + 0
202	179 - 13	141 + 1	122 + 4	93 + 2	40 - 4	33 + 0
214	205 + 2	157 + 3	150 + 2	112 + 6	46 - 0	39 + 2
<i>Females.</i>						
45	177 - 2	142 - 1	131 - 1	109 + 0	43 + 1	35 + 2
48	192 + 1	152 - 2	135 + 0	108 + 1	42 + 3	38 - 3
85	171 + 4	139 + 2	126 + 3	94 + 5	44 - 4	32 + 3
99	169 + 7	144 + 0	140 + 2	102 + 6	40 + 3	38 + 2
136	181 + 0	145 - 6	134 + 2	105 - 1	44 + 1	40 + 0
137	180 + 4	140 - 1	137 + 3	105 + 2	46 - 7	36 + 0
151	189 - 7	149 - 1	140 - 5	101 + 1	42 - 1	38 + 0
174	174 - 5	137 + 1	112 + 3	85 + 1	37 - 1	30 + 1
179	190 - 1	152 + 1	137 + 3	105 + 6	42 + 0	37 + 0
180	180 + 2	144 - 2	130 + 7	106 - 5	43 - 1	34 - 1
187	183 - 1	146 + 4	130 + 2	91 + 7	36 + 1	34 + 1
195	189 + 5	152 + 1	137 - 4	103 + 0	45 - 5	33 + 1
196	176 + 3	140 + 4	135 + 2	100 + 0	47 - 3	34 + 1
198	194 + 0	151 - 1	136 + 5	104 + 0	44 - 2	44 - 3
207	178 + 0	153 + 2	133 + 3	104 - 1	46 - 4	37 - 5
208	187 + 3	143 + 3	136 + 1	107 + 2	49 + 1	41 + 1
211	168 - 2	134 + 0	118 - 8	79 + 3	31 + 0	30 + 1
Aver. Diff.	+ 0.1	+ 0.1	+ 1.2	+ 1.2	- 1.6	+ 0.2

The square variability of these differences is equal to twice the square of the error of measurement ϵ^2 . Thus we find for ϵ^2 :

<i>Measurement.</i>	<i>ϵ^2</i>
Length of Head.....	9
Breadth of Head.....	2.8
Width of Face.....	6.4
Height of Face.....	4.6
Height of Nose.....	3.2
Width of Nose.....	1.5

It would seem that in the measurement of length of head

for Nos. 34 and 202 the centimetres were misread, which would account for the high error.

For a comparison of Dr. Dixon's and Mr. Chesnut's measurements only six individuals are available. In the following table Dr. Dixon's measurements are given, and the amount to be added to obtain Mr. Chesnut's measurements. There seems to be a constant difference between the two measurements of length of face; otherwise the differences are so small that they may be neglected.

	Length of Head.	Breadth of Head.	Width of Face.	Height of Face.	Height of Nose.	Width of Nose.
9	196-1	154-0	152-5	119-3	46+2	39-1
20	202-4	163-2	150+0	119-9	49-1	47-2
21	192+0	152-2	149-4	116-1	49+1	46-2
100	199-2	154-2	146-3	122-6	51+0	40+0
155	199-4	162-2	150-3	128-5	60-2	40-2
161	200+7	157-4	136+1	118-1	53-2	38+1
Average Diff.	-0.7	-2.0	-2.3	-4.2	-0.3	-1.0

The tabulation of Mr. Chesnut's measurements gives very variable results, which differ fundamentally from all the results obtained among the neighboring tribes. I have called attention to this phenomenon before.¹ With the assistance of Dr. Dixon and Dr. A. L. Kroeber, I have been able to subdivide the material according to tribes. In this manner it has been possible to determine the geographical position of the disturbing element more accurately.

I have divided the material into the following groups: Maidu of the Sacramento Valley, Maidu of the Foot-Hills, Maidu of the Mountains, Pit River Indians, Pomo, Yuki, Wintun. Besides these, there are a few isolated measurements.

Following is a tabular statement of the measurements of the more important groups.

¹ Verhandlungen der Berliner anthropologischen Gesellschaft, 1895, pp. 401, 402.

MEASUREMENTS OF MEN.

LENGTH OF ARM.					HEIGHT SITTING.					WIDTH OF SHOULDERS.								
	Maidu of Sacramento Valley.	Maidu of Foot-Hills.	Maidu of Mountains and Pit River.	Pomo.	Yuki.		Maidu of Sacramento Valley.	Maidu of Foot-Hills.	Maidu of Mountains and Pit River.	Pomo.	Yuki.		Maidu of Sacramento Valley.	Maidu of Foot-Hills.	Maidu of Mountains and Pit River.	Pomo.	Yuki.	
65	—	1	—	—	—	79	—	1	—	—	2	31	—	—	—	—	—	1
66	—	2	—	—	—	80	—	—	—	—	—	32	—	—	—	—	—	—
67	1	—	—	—	1	81	—	—	—	—	—	33	—	—	—	—	—	—
68	—	—	—	—	—	82	—	2	—	—	—	34	—	—	—	—	—	—
69	—	1	—	—	1	83	2	3	—	—	—	35	—	—	—	—	—	—
70	—	2	—	—	4	84	—	3	—	—	—	36	—	—	—	—	—	—
71	1	4	—	—	3	85	—	3	—	—	1	37	—	—	—	—	—	—
72	—	4	—	—	3	86	1	3	—	2	1	38	—	—	—	—	—	—
73	—	2	—	—	2	87	—	3	—	1	1	39	—	—	—	—	—	—
74	1	2	—	2	2	88	—	3	—	1	—	40	—	—	—	—	—	—
75	—	1	3	1	—	89	—	1	—	—	—	41	—	—	—	—	—	—
76	1	2	1	1	2	90	—	1	—	—	—	42	—	—	—	—	—	—
77	—	—	1	1	1	91	—	2	—	1	—	43	—	—	—	—	—	—
78	—	3	1	1	1	92	—	—	—	—	—	44	—	—	—	—	—	—
79	—	—	1	—	1	93	—	—	—	—	—		—	—	—	—	—	—
80	—	—	—	—	—	94	—	—	—	—	—		—	—	—	—	—	—
81	—	1	1	—	—	95	—	—	2	—	—		—	—	—	—	—	—
			87—1															
Cases.	4	25	11	6	17		4	22	11	6	17		4	25	11	6	18	
Aver.	72.0	72.6	77.2	75.7	72.4		84.2	86.3	90.5	88.0	83.2		36.0	37.6	39.5	38.3	36.7	

MEASUREMENTS OF MEN.

LENGTH OF HEAD.						WIDTH OF HEAD.					
	Maidu of Sacra- mento Valley.	Maidu of Foot-Hills.	Pit River.	Pomo.	Yuki.		Maidu of Sacra- mento Valley.	Maidu of Foot-Hills.	Pit River.	Pomo.	Yuki.
	Dixon.	Chesnut.	Dixon.	Dixon.	Chesnut.		Dixon.	Chesnut.	Dixon.	Dixon.	Chesnut.
180	—	—	—	—	—	140	—	—	—	—	137-1
181	—	—	—	—	—	141	—	—	—	—	140-1
182	—	I	—	I	—	142	—	—	—	—	1
183	—	—	—	—	—	143	—	—	—	—	1
184	—	—	—	—	I	144	—	I	—	—	1
185	—	—	—	—	I	145	—	—	—	I	2
186	—	I	—	I	—	146	—	—	—	—	—
187	—	I	—	2	—	147	—	I	—	—	—
188	I	—	—	—	—	148	—	—	—	—	4
189	—	—	—	—	—	149	—	I	—	—	2
190	2	—	—	—	—	150	—	I	—	—	3
191	I	I	—	I	3	151	—	2	—	I	2
192	—	—	—	—	2	152	—	2	—	—	—
193	—	I	I	—	I	153	I	—	—	I	I
194	—	—	—	—	I	154	—	2	—	—	—
195	I	—	—	—	—	155	—	I	—	—	I
196	—	2	—	I	2	156	—	2	—	—	—
197	—	I	I	—	—	157	I	I	I	I	I
198	—	2	—	—	I	158	—	—	—	—	—
199	—	I	I	—	I	159	I	—	—	—	—
200	—	—	—	I	3	160	—	I	—	—	—
201	—	—	I	—	I	161	—	—	2	—	—
202	—	I	—	—	I	162	—	—	—	—	—
203	—	—	—	—	I	163	—	I	—	I	—
204	—	—	—	—	—	164	—	—	—	—	—
205	—	—	—	—	—	165	—	—	—	—	—
206	—	—	—	—	—	166	—	I	—	—	—
207	—	—	—	—	I	167	—	—	—	—	—
Cases.	4	I	3	I	I		4	18	8	I	I
Aver.	100-7	182	108.0	191.0	199.0		157.0	150.0	158.0	157.0	154.0
							150.0	152.6	158.0	153.6	148.0

MEASUREMENTS OF MEN.

WIDTH OF FACE.

	Maidu of Sacra- mento Valley.		Maidu of Foot-Hills.		Maidu of Moun- tains.		Pit River.	Pomo.		Yuki.	
	Dixon.	Chesnut.	Dixon.	Chesnut.	Dixon.		Dixon.	Dixon.	Chesnut.	Dixon.	Chesnut.
135	—	—	—	—	—	—	—	—	—	—	—
136	—	—	I	—	—	—	—	—	—	—	—
137	—	—	I	I	—	—	—	—	—	—	—
138	—	—	I	—	—	—	—	—	—	—	—
139	—	—	I	—	—	—	—	—	—	—	—
140	—	—	—	—	—	—	—	I	—	—	I
141	—	—	2	I	—	—	—	—	—	—	—
142	I	—	—	I	—	—	—	—	I	—	I
143	I	I	2	—	—	—	—	—	—	—	I
144	—	—	—	I	—	—	—	—	—	—	3
145	—	—	I	I	—	—	—	—	—	—	2
146	2	—	—	2	I	—	—	—	—	I	3
147	—	—	I	I	I	—	—	—	—	—	2
148	—	—	I	I	I	—	—	—	—	—	2
149	—	—	I	2	I	—	—	2	—	—	3
150	—	—	I	—	2	—	—	—	—	—	3
151	—	—	—	—	—	I	—	2	—	—	—
152	—	—	I	—	I	I	—	I	—	—	—
153	—	—	I	—	I	—	—	—	—	—	—
154	—	—	—	—	—	I	—	—	—	—	I
155	—	—	I	—	—	—	—	I	—	—	—
156	—	—	I	—	—	—	—	—	—	—	—
157	—	—	I	—	—	—	—	—	—	—	—
Cases:	4	I	18	11	8	3	I	7		I	22
Averages:	144	143	146.1	145.0	149.4	152	140	150		146	146.6

MEASUREMENTS OF WOMEN.

STATURE.					LENGTH OF HEAD.					WIDTH OF HEAD.				
	Maidu of Foot-Hills.	Maidu of Mountains.	Pomo.	Yuki.		Maidu of Foot-Hills.	Maidu of Mountains.	Pomo.	Yuki.		Maidu of Foot-Hills.	Maidu of Mountains.	Pomo.	Yuki.
141	—	—	—	139-1	171	—	—	—	—	136	—	—	—	1
142	—	—	—	—	172	—	1	—	—	137	1	—	—	1
143	—	—	—	—	173	—	—	—	—	138	—	—	—	—
144	—	—	—	3	174	—	—	2	—	139	—	—	—	—
145	—	—	—	—	175	—	—	—	—	140	—	—	—	1
146	—	—	—	—	176	—	—	—	—	141	1	—	—	2
147	—	—	—	1	177	—	—	—	—	142	—	—	—	2
148	—	—	—	1	178	—	2	—	—	143	—	—	—	1
149	2	—	—	3	179	—	—	1	—	144	1	—	—	2
150	1	—	1	1	180	—	—	—	—	145	—	—	2	2
151	—	—	—	—	181	—	—	—	—	146	1	—	1	1
152	—	—	—	2	182	—	—	—	—	147	2	—	—	2
153	—	—	2	1	183	—	—	—	—	148	1	—	—	2
154	3	2	—	2	184	—	—	—	—	149	—	—	—	2
155	—	—	1	—	185	1	—	1	3	150	—	—	—	1
156	2	—	—	—	186	—	—	—	—	151	—	—	—	—
157	—	1	1	1	187	—	1	1	1	152	1	—	—	—
158	—	1	1	—	188	3	—	—	—	153	1	—	—	—
159	—	2	1	—	189	—	—	—	—	154	—	—	—	—
160	—	—	—	—	190	—	—	1	1	155	—	—	—	—
161	—	—	—	—	191	—	1	—	—	156	—	—	—	—
162	—	—	—	—	192	1	—	—	—	157	—	1	—	—
163	—	—	1	—	193	—	—	—	—	158	—	—	—	1
164	—	—	—	—	194	—	—	—	—	159	—	—	—	—
165	—	—	1	—	195	—	—	—	1	160	—	1	—	—
										161	—	1	—	—
										167	—	1	—	—
Cases:	9	7	9	17		9	7	11	18		9	7	11	18
aver.	153.3	157.3	156.9	143.8		185.0	182.7	181.0	184.6		145.1	156.0	147.2	143.8

CEPHALIC INDEX.

MEASUREMENTS OF WOMEN.

WIDTH OF FACE.					MEN, WOMEN, AND CHILDREN.						
	Maidu of Foot-Hills.	Maidu of Moun- tains and Pit River.	Pomo.	Yuki.	Index.	Maidu of Sacra- mento Valley.	Maidu of Foot-Hills.		Maidu of Mountains and Pit River.	Pomo.	Yuki.
							Dixon.	Chesnut.			
130	—	—	—	3	701	—	—	—	—	—	—
131	—	—	—	—	71	—	—	—	—	—	—
132	1	—	—	—	72	—	—	—	—	—	1
133	1	—	1	—	73	—	2	2	—	1	3
134	1	—	2	3	74	—	—	—	—	—	6
135	4	—	—	1	75	—	—	3	—	—	10
136	—	—	1	3	76	—	—	2	—	3	8
137	—	1	2	2	77	—	3	1	1	5	3
138	1	—	1	1	78	—	4	3	—	1	2
139	—	—	—	—	79	—	3	5	—	2	3
140	1	1	1	—	80	—	2	4	5	2	3
141	—	—	—	3	81	2	5	—	4	4	1
142	—	1	1	—	82	2	—	—	2	1	1
143	—	2	1	—	83	1	3	2	2	2	3
144	—	—	—	1	84	—	—	—	—	—	—
145	—	—	—	1	85	—	1	—	1	3	1
146	—	—	—	—	86	—	—	—	—	2	—
147	—	—	1	—	87	—	—	—	—	2	—
148	—	1	—	—	88	—	—	—	—	—	—
149	—	1	—	—	89	—	—	—	—	—	—
150	—	—	—	—	90	—	—	—	1	—	—
151	—	—	—	—	91	—	—	—	1	—	—
152	—	—	—	—	92	—	—	—	—	—	—
153	—	—	—	—	93	—	—	—	1	—	—
Cases:	9	7	11	18		5	23	22	18	28	48
Averages:	135.2	143.0	143.4	136.7		82.3	79.1		83.3	81.0	77.6

¹ That is, from 70.0 to 70.9, etc.

AVERAGE MEASUREMENTS.

	Maidu of Sack- mento Valley.	Maidu of Foot-Hills.	Maidu of Mountains and Pit River.	Pomo.	Yuki.
Stature, Men.....	1607 (4)	1644 (25)	1687 (11)	1682 (6)	1590 (17)
" Women.....	—	1533 (9)	1573 (7)	1500 (9)	1488 (17)
Stretch of Arms, Men.....	1682 (4)	1712 (25)	1789 (11)	1775 (6)	1680 (18)
Height of Shoulder, Men..	1315 (4)	1352 (25)	1395 (11)	1390 (6)	1317 (17)
Length of Arm, Men.....	720 (4)	726 (25)	772 (11)	757 (6)	724 (17)
Height sitting, Men.....	842 (4)	863 (22)	905 (11)	880 (6)	832 (17)
Width of Shoulders, Men..	360 (4)	376 (25)	395 (11)	383 (6)	367 (18)
Length of Head, Men.....	189.0 (5)	194.0 (29)	194.4 (11)	190.1 (8)	195.2 (23)
" Women.....	—	185.0 (9)	182.7 (7)	181.0 (11)	181.0 (18)
Width of Head, Men.....	155.4 (5)	153.5 (29)	158.8 (11)	154.0 (8)	148.3 (23)
" Women.....	—	145.1 (9)	150.0 (7)	147.2 (11)	143.8 (18)
" Face, Men.....	143.8 (5)	145.7 (29)	150.1 (11)	148.8 (8)	146.6 (23)
" Women.....	—	135.2 (9)	143.0 (7)	143.4 (11)	130.7 (18)
Height of Face, Men.....	122 (4)	122.6 (26)	124.2 (11)	120.0 (6)	118.0 (18)
Cephalic Index, Whole Series.....	82.3 (5)	79.1 (45)	83.3 (18)	81.0 (28)	77.6 (48)

These tables show clearly that the Yuki differ in type from all the neighboring tribes. They are short of stature, the average found being 159 cm. for men, and 149 cm. for women. Their heads are elongated, which is due to great narrowness of the head; the cephalic index is about 77.5. The face is small, being both narrow and low. This type seems to be also present among the Maidu of the Foot-Hill region, but farther to the north and east it disappears. It is much less frequent among the Pomo than among the Maidu of the Foot-Hill region. Towards the interior and among the Pomo a type prevails which is similar to that of the Indians of the plateaus of Nevada and Utah. Their stature reaches 168 cm. among men, and 156 cm. among women, while the cephalic index is about 83. The width of face has the characteristic high value of the eastern Indians, being, on the average, 149. Among the Pit River Indians excessively short heads are found. I am doubtful if they may not be in part due to flattening of the occiput, although they seem to arise rather from excessive width than from excessive shortness of the head.

It seems plausible that the type represented by the Yuki

¹ 4 mm. added to Mr. Chesnut's measurements.

may be related to the very short and long-headed type of the islands of California, which, in its most pronounced form, was found on the most southern islands; while northward, towards Santa Barbara, its most striking characteristics become less marked. It would seem, that, if this relationship exists, the Yuki would resemble the ancient inhabitants of Santa Barbara.

The occurrence of this peculiar type among the other types of the Pacific coast is very remarkable. It is another instance of the irregularity of distribution of types along this coast, and analogous to the irregularities of distribution that are found along the coast farther to the north.¹

The average number of children of women of forty years and over is 3.7, which is much less than the average number of children of Indians of other parts of the continent. Taken in connection with the high infant mortality, this indicates a rapid reduction in numbers of the population.

¹ See Twelfth Report on the North-Western Tribes of Canada (Report of the British Association for the Advancement of Science, 1898).

LIST OF MEASUREMENTS.

The following abbreviations have been used:

St....Stature.	HfII..Distance from nasion to chin.
Str....Stretch of arms.	Hn....Height of nose.
Sh.... Height of shoulder (acromion).	Wn...Width of nose between alæ.
A.....Length of arm (acromion to tip of second finger).	Le....Length of ear.
Hs....Height sitting.	Vc....Vertical circumference of head, from tragus to tragus.
Wsh...Width of shoulders between acromia.	Hc....Horizontal circumference of head.
Bha...Breadth of hand across knuckles.	$I\text{Str} \dots \frac{\text{Str}}{\text{St}}$
Lfi....Length of second finger.	$IA \dots \frac{A}{\text{St}}$
Lh....Length of head.	$I\text{Hs} \dots \frac{\text{Hs}}{\text{St}}$
Bh....Width of head.	$I\text{Wsh} \dots \frac{\text{Wsh}}{\text{St}}$
Wf....Width of face between zygomatic arches.	$CI \dots \frac{\text{Ch}}{\text{Lh}}$
HfI....Distance from hair line to chin.	

MAIDU OF SACRAMENTO VALLEY.

Males.

Observer: R. B. Dixon.

1. Age 40, Mike Jefferson. — St 1640 Str 1670 Sh 1320 A 670 Hs 860 Wsh 370 Bha 90 Lfi 88 — Lh 195 Bh 158 Wf 142 HfI 180 HfII 130 Hn 55 Wn 40 Le 69 Vc 360 Hc 580 — $I\text{Str}$ 101.8 IA 40.9 $I\text{Hs}$ 52.4 $I\text{Wsh}$ 22.6 — CI 81.0.
2. Age 45, Billy. — St 1590 Str 1680 Sh 1320 A 740 Hs 840 Wsh 360 Bha 83 Lfi 90 Lfa 440 — Lh 190 Bh 159 Wf 143 HfI 166 HfII 114 Hn 58 Wn 42 Le 66 Vc 385 Hc 560 — $I\text{Str}$ 105.7 IA 46.6 $I\text{Hs}$ 52.8 $I\text{Wsh}$ 22.7 — CI 83.7.
3. Age 50, Polissy. — St 1600 Str 1650 Sh 1310 A 710 Hs 830 Wsh 345 Bha 85 Lfi 94 Lfa 440 — Lh 190 Bh 157 Wf 146 HfI 165 HfII 120 Hn 57 Wn 42 Le 66 Vc 370 Hc 560 — $I\text{Str}$ 103.1 IA 44.4 $I\text{Hs}$ 51.9 $I\text{Wsh}$ 21.8 — CI 82.6.
4. Age 50, George Barber. — St 1600 Str 1730 Sh 1310 A 760 Hs 840 Wsh 360 Bha 89 Lfi 93 Lfa 465 — Lh 188 Bh 153 Wf 146 HfI 172 HfII 123 Hn 57 Wn 45 Le 67

Vc 375. Hc 550 — *I*Str 108.1 *IA* 47.5 *I*Hs 52.5 *I*Wsh 22.5
— *CI* 81.4.

Observer: V. K. Chesnut.

5. Age 70, Pete Virginia. — St 1573 Str 1665 Sh 1292 A 734
Hs 828 Wsh 332 — Lh 182 Bh 150 Wf 143 Hf 122 Hn
53 Wn 44 — *CI* 82.4.

MAIDU OF THE FOOT-HILL REGION.

Observer: R. B. Dixon.

I. Males.

6. Age 19, Louis Asbil.¹ — St 1650 Str 1730 Sh 1350 A 740 Hs
870 Wsh 385 Bha 85 Lfi 94 — Lh 186 Bh 147 Wf 138
Hfi 184 Hfii 119 Hn 50 Wn 41 Le 63 Vc 350 Hc 550
— *I*Str 104.9 *IA* 44.9 *I*Hs 52.7 *I*Wsh 23.2 — *CI* 79.0.
7. Age 30, Bob Brooks. — St 1760 Str 1800 Sh 1450 A 740 Hs
870 Wsh 370 Bha 81 Lfi 91 Lfa 470 — Lh 192 Bh 150
Wf 143 Hfi 201 Hfii 129 Hn 48 Wn 37 Le 63 Vc 355
Hc 550 — *I*Str 102.3 *IA* 42.0 *I*Hs 49.4 *I*Wsh 21.0 — *CI*
78.1.
8. Age 35, Ben Benjamin. — St 1580 Str 1640 Sh 1260 A 660
Hs 900 Wsh 380 Bha 86 Lfi 90 Lfa 480 — Lh 197 Bh
155 Wf 139 Hfi 193 Hfii 129 Hn 51 Wn 44 Le 62 —
*I*Str 103.8 *IA* 41.8 *I*Hs 57.0 *I*Wsh 24.1 — *CI* 78.7.
9. Age 38, Jim Stevens. — St 1650 Str 1780 Sh 1360 A 730 Hs
890 Wsh 385 Bha 92 Lfi 96 — Lh 196 Bh 154 Wf 152
Hfi 172 Hfii 119 Hn 46 Wn 39 Le 63 — *I*Str 107.9 *IA*
44.2 *I*Hs 53.9 *I*Wsh 23.3 — *CI* 78.6.
10. Age 40, Ed. Currin. — St 1690 Str 1740 Sh 1380 A 710 Hs
920 Wsh 410 Bha 90 Lfi 90 Lfa 450 — Lh 200 Bh 166
Wf 156 Hfi 199 Hfii 132 Hn 50 Wn 42 Le 74 Vc 390
Hc 620 — *I*Str 103.0 *IA* 42.0 *I*Hs 54.4 *I*Wsh 24.3 — *CI* 83.0.
11. Age 40, Lawson Anderson. — St 1620 Str 1620 Sh 1310 A 700
Hs 850 Wsh 380 Bha 86 Lfi 87 — Lh 183 Bh 146 Wf 141
Hfi 168 Hfii 118 Hn 46 Wn 42 Le 65 Vc 350 Hc 550
— *I*Str 100.0 *IA* 43.2 *I*Hs 52.5 *I*Wsh 23.5 — *CI* 79.8.
12. Age 40-42, Henry Clay. — St 1690 Str 1800 Sh 1410 A 780
Hs 920 Wsh 420 Bha 93 Lfi 110 — Lh 205 Bh 167 Wf
155 Hfi 184 Hfii 126 Hn 53 Wn 45 Le 72 Vc 380
Hc 630 — *I*Str 106.5 *IA* 46.2 *I*Hs 54.4 *I*Wsh 24.9 — *CI* 81.5.
13. Age 45, George Asbil. — St 1570 Str 1690 Sh 1240 A 660
Hs 860 Wsh 385 Bha 84 Lfi 90 — Lh 192 Bh 149 Wf 137

¹ Father, Maidu of the Foot-Hill region; mother, Wintun.

- Hfl 166 HflI 119 Hn 49 Wn 43 Le 63 Vc 345 Hc 570
— *IStr* 107.7 *IA* 42.0 *IHS* 54.8 *IWsh* 24.5 — *CI* 77.6.
14. Age 45, Jim Mullen. — St 1620 Str 1660 Sh 1320 A 690 Hs 860 Wsh 370 Bha 92 — Lh 192 Bh 156 Wf 141 Hfl 183 HflI 127 Hn 51 Wn 43 Le 62 Vc 375 Hc 570 — *IStr* 102.5 *IA* 42.6 *IHS* 53.1 *IWsh* 22.9 — *CI* 81.2.
15. Age 45, Walter Uptograth. — St 1640 Str 1790 Sh 1365 A 765 Hs 830 Wsh 390 Bha 87 Lfi 99 — Lh 199 Bh 146 Wf 153 Hfl 179 HflI 125 Hn 50 Wn 47 Le 70 Vc 345 Hc 585 — *IStr* 109.1 *IA* 46.4 *IHS* 50.3 *IWsh* 23.6 — *CI* 73.4.
16. Age 45, Bill Logan. — St 1590 Str 1600 Sh 1320 A 650 Hs 850 Wsh 350 Bha 80 Lfi 84 Lfa 410 — Lh 190 Bh 154 Wf 147 Hfl 169 HflI 121 Hn 47 Wn 45 Le 61 Vc 360 Hc 560 — *IStr* 100.6 *IA* 40.9 *IHS* 53.5 *IWsh* 22.0 — *CI* 81.1.
17. Age 55–60, Dan Wright. — St 1700 Str 1770 Sh 1400 A 760 Hs 910 Wsh 380 Bha 89 Lfi 102 — Lh 191 Bh 160 Wf 148 Hfl 167 HflI 120 Hn 50 Wn 47 Le 68 Vc 360 Hc 580 — *IStr* 104.1 *IA* 44.7 *IHS* 53.5 *IWsh* 22.4 — *CI* 83.8.
18. Age 60, Jack Wright. — St 1490 Str 1620 Sh 1210 A 700 Hs 790 Wsh 350 Bha 78 Lh 184 Bh 143 Wf 136 Hfl 166 HflI 115 Hn 50 Wn 41 Le 66 Vc 350 Hc 540 — *IStr* 108.7 *IA* 47.0 *IHS* 52.4 *IWsh* 23.5 — *CI* 77.7.
19. Age 60, Jack McLane. — St 1650 Str 1670 Sh 1350 A 720 Hs 880 Wsh 370 Bha 85 Lfi 87 — Lh 193 Bh 156 Wf 157 Hfl 176 HflI 127 Hn 54 Wn 44 Le 77 — *IStr* 101.2 *IA* 43.6 *IHS* 53.3 *IWsh* 22.4 — *CI* 80.8.
20. Age 60, Dolby McLane. — St 1630 Str 1720 Sh 1360 A 720 Hs 820 Wsh 380 Bha 87 Lfi 90 Lfa 460 — Lh 202 Bh 163 Wf 150 Hfl 173 HflI 119 Hn 49 Wn 47 Le 73 — *IStr* 105.5 *IA* 44.2 *IHS* 50.3 *IWsh* 23.3 — *CI* 80.7.
21. Age 60, Billy Williams. — St 1600 Str 1670 Sh 1350 A 710 Hs 830 Wsh 360 Bha 84 Lfa 440 — Lh 192 Bh 152 Wf 149 Hfl 188 HflI 116 Hn 49 Wn 46 Le 70 — *IStr* 104.4 *IA* 44.4 *IHS* 51.9 *IWsh* 22.5 — *CI* 79.2.
22. Age 70, Bill Brooks. — St 1570 Str 1610 Sh 1300 A 690 Hs 840 Wsh 360 Bha 73 Lfi 85 Lfa 450 — Lh 190 Bh 158 Wf 145 Hfl 181 HflI 124 Hn 53 Wn 41 Le 70 Vc 380 Hc 570 — *IStr* 102.6 *IA* 43.9 *IHS* 53.5 *IWsh* 22.9 — *CI* 83.2.
23. Age 75–80, Happy Jack. — St 1520 Str 1560 Sh 1230 A 640 Hs 78.5 Wsh 340 Bha 76 — Lh 187¹ Bh 152 Wf 143 Hfl 172 HflI 119 Hn 47 Wn 45 Le 71 Vc 365 Hc 540 — *IStr* 102.6 *IA* 42.1 *IHS* 51.7 *IWsh* 22.4 — *CI* 81.3.

¹ Flattened occiput.

II. *Females.*

24. Age 50, Kate Brooks. — St 1490 Str 1510 Sh 1220 A 670 Hs 800 Wsh 325 Bha 72 Lfi 71 Lfa 420 — Lh 173 Bh 147 Wf 135 Hfl 161 HfII 110 Hn 44 Wn 35 Le 60 Vc 325 Hc 520 — *IStr* 101.4 *IA* 45.0 *IHs* 53.7 *IWsh* 21.8 — *CI* 85.0.
25. Age 30, Dolly Anderson. — St 1540 Str 1545 Sh 1270 A 660 Hs 850 Wsh 350 Bha 84 Lfi 80 — Lh 177 Bh 137 Wf 134 Hfl 163 HfII 112 Hn 44 Wn 40 Le 62 Vc 350 Hc 560 — *IStr* 100.3 *IA* 42.9 *IHs* 55.2 *IWsh* 22.7 — *CI* 77.4.
26. Age 30, Susie Downs. — St 1560 Str 1530 Sh 1270 A 640 Hs 830 Wsh 340 Bha 80 Lfi 80 — Lh 188 Bh 153 Wf 140 Hfl 171 HfII 117 Hn 50 Wn 38 Le 53 Vc 370 Hc 580 — *IStr* 98.1 *IA* 41.0 *IHs* 53.2 *IWsh* 21.8 — *CI* 81.4.
27. Age 35-40, Nancy Clay. — St 1560 Str 1600 Sh 1300 A 670 Hs 800 Wsh 350 Bha 74 Lfi 89 — Lh 191 Bh 141 Wf 135 Hfl 165 HfII 116 Hn 45 Wn 41 Le 63 — *IStr* 102.6 *IA* 42.9 *IHs* 51.3 *IWsh* 22.4 — *CI* 73.8.
28. Age 60, Alice Mullen. — St 1580 Str 1550 Sh 1360 A 730 Hs 850 Wsh 320 Bha 76 Lfi 85 — Lh 188 Bh 148 Wf 133 Hfl 163 HfII 113 Hn 47 Wn 40 Le 62 Vc 355 Hc 570 — *IStr* 98.1 *IA* 46.2 *IHs* 52.5 *IWsh* 20.3 — *CI* 78.7.

Observer: V. K. Chesnut.

I. *Males.*

29. Age 8, Wallace Lincoln. — St 1197 Str 1185 Sh 974 A 516 Hs 665 Wsh 262 — Lh 172 Bh 143 Wf 124 Hf 91 Hn 40 Wn 32 — *CI* 83.1.
- 6a. Age 10, Louis Asbil. — St 1389 Str 1419 Sh 1129 A 614 Hs 730 Wsh 289 — Lh 174 Bh 146 Wf 125 Hf 111 Hn 42 Wn 37 — *CI* 79.0.
30. Age 17, John Webster. — St 1704 Str 1743 Sh 1455 A 750 Hs 900 Wsh 185 — Lh 193 Bh 152 Wf 150 Hf 118 Hn 50 Wn 40 — *CI* 79.7.
31. Age 21, Henry Downs. — St 1795 Str 1859 Sh 1481 A 808 Wsh 400 — Lh 198 Bh 151 Wf 142 Hf 121 Hn 45 Wn 37 — *CI* 76.2.
32. Age 24, Pete Corbett. — Lh 192 Bh 160 Wf 149 Hf 133 Hn 49 Wn 40 — *CI* 83.3.
33. Age 26, Charley Wright. — St 1708 Str 1790 Sh 1424 A 777 Hs 846 Wsh 372 — Lh 187 Bh 151 Wf 137 Hf 111 Hn 52 Wn 36 — *CI* 80.8.
34. Age 30, David Lincoln. — St 1614 Str 1683 Sh 1304 A 710

- Hs 882 Wsh 357 — Lh 206 Bh 155 Wf 144 Hf 123 Hn 55 Wn 43 — *CI* 75.2.
35. Age 32, John Brown. — St 1614 Str 1682 Sh 1357 A 724 Hs 818 Wsh 364 — Lh 196 Bh 144 Wf 145 Hf 115 Hn 50 Wn 42 — *CI* 73.5.
36. Age 34, Dixie Edsal. — St 1654 Str 1710 Sh 1375 A 755 Hs 827 Wsh 372 — Lh 196 Bh 155 Wf 146 Hf 121 Hn 52 Wn 40 — *CI* 79.1.
37. Age 34, Tom Perrington. — St 1628 Str 1703 Sh 1352 A 723 Hs 870 Wsh 399 — Lh 198 Bh 149 Wf 146 Hf 119 Hn 49 Wn 43 — *CI* 75.3.
38. Age 38, Dan Webster. — St 1693 Str 1803 Sh 1377 A 784 Hs 883 Wsh 392 — Lh 199 Bh 156 Wf 148 Hf 122 Hn 51 Wn 40 — *CI* 78.4.
39. Age 52, Doc. Gibson. — St 1621 Str 1661 Sh 1356 A 713 Wsh 350 — Lh 193 Bh 154 Wf 149 Hf 113 Hn 50 Wn 45 — *CI* 79.8.
40. Age 70, John Whiskers. — St 1563 Str 1596 Sh 1296 A 726 Hs 848 Wsh 335 — Lh 192 Bh 154 Wf 147 Hf 113 Hn 50 Wn 53 — *CI* 80.2.
41. Age —, Tony Laycock. — St 1615 Str 1604 Sh 1347 A 738 Wsh 355 — Lh 197 Bh 150 Wf 141 Hf 109 Hn 50 Wn 47 — *CI* 76.1.

II. *Females.*

42. Age 8, Roxy Webster.¹ — St 1277 Str 1300 Sh 1019 A 555 Hs 684 Wsh 271 — Lh 178 Bh 140 Wf 124 Hf 92 Hn 38 Wn 33 — *CI* 78.6.
43. Age 9, Bertie Anderson. — St 1310 Str 1283 Sh 1057 A 558 Hs 712 Wsh 260 — Lh 171 Bh 125 Wf 121 Hf 104 Hn 41 Wn 33 — *CI* 73.1.
44. Age 10, Hattie Webster.¹ — St 1299 Str 1309 Sh 1043 A 552 Hs 695 Wsh 281 — Lh 172 Bh 139 Wf 122 Hf 98 Hn 35 Wn 32 — *CI* 80.8.
45. Age 13, Ollie Stranget. — St 1507 Str 1555 Sh 1259 A 684 Hs 768 Wsh 312 — Lh 177 Bh 142 Wf 131 Hf 109 Hn 43 Wn 35 — *CI* 80.2.
46. Age 14, Clara Anderson. — St 1577 Str 1560 Sh 1288 A 671 Hs 852 Wsh 325 — Lh 185 Bh 140 Wf 135 Hf 110 Hn 46 Wn 37 — *CI* 75.7.
47. Age 20, Sarah Willsey. — St 1524 Str 1558 Sh 1260 A 651

¹ Father, Maidu of Foot-Hill region; mother, Pit River.

- Hs 782 Wsh 346 — Lh 184 Bh 146 Wf 132 Hf 103 Hn 41 Wn 36 — *CI* 79.3.
48. Age 24, Mary Anderson.¹ — St 1540 Str 1556 Sh 1250 A 680 Hs 824 Wsh 335 — Lh 192 Bh 152 Wf 135 Hf 108 Hn 42 Wn 38 — *CI* 79.2.
49. Age 40, Sally Wright. — St 1500 Str 1542 Sh 1230 A 631 Wsh 330 — Lh 188 Bh 147 Wf 138 Hf 112 Hn 45 Wn 37 — *CI* 78.2.
50. Age 60, Nancy Laycock. — St 1494 Str 1532 Sh 1231 A 642 Hs 804 Wsh 333 — Lh 185 Bh 144 Wf 135 Hf 120 Hn 52 Wn 40 — *CI* 77.8.

MAIDU OF MOUNTAINS.

Observer: R. B. Dixon.

I. Males.

51. Age 20, Frank Thomas. — St 1670 Str 1730 Sh 1350 A 730 Hs 950 Wsh 415 Bha 86 Lfi 88 Lfa 450 — Lh 190 Bh 153 Wf 146 Hfi 178 HfII 127 Hn 50 Wn 38 Le 63 Vc 360 Hc 560 — *IStr* 103.6 *IA* 43.7 *IHS* 56.9 *IWsh* 24.9 — *CI* 80.5.
52. Age 20, Johnny Pai yute.² — St 1720 Str 1820 Sh 1430 A 760 Hs 905 Wsh 350 Bha 85 Lfi 97 — Lh 194 Bh 157 Wf 148 Hfi 183 HfII 123 Hn 49 Wn 39 Le 62 Vc 370 Hc 570 — *IStr* 105.8 *IA* 44.2 *IHS* 52.6 *IWsh* 20.4 — *CI* 81.3.
53. Age 20, George Washoe.³ — St 1580 Str 1730 Sh 1300 A 750 Hs 880 Wsh 380 Bha 82 Lfi 90 Lfa 450 — Lh 195 Bh 156 Wf 149 Hfi 172 HfII 120 Hn 47 Wn 41 Le 60 Vc 360 Hc 570 — *IStr* 109.5 *IA* 47.5 *IHS* 55.7 *IWsh* 24.1 — *CI* 80.0.
54. Age 20, Johnny Bob. — St 1700 Str 1800 Sh 1390 A 780 Hs 910 Wsh 390 Bha 88 Lfi 95 Lfa 470 — Lh 194 Bh 158 Wf 150 Hfi 173 HfII 125 Hn 53 Wn 45 Le 65 Vc 370 Hc 585 — *IStr* 105.9 *IA* 45.9 *IHS* 53.5 *IWsh* 22.9 — *CI* 81.4.
55. Age 27, Mosy Higgins. — St 1700 Str 1790 Sh 1400 A 750 Hs 880 Wsh 400 Bha 85 Lfi 91 Lfa 460 — Lh 197 Bh 164 Wf 152 Hfi 176 HfII 118 Hn 48 Wn 41 Le 67 Vc 385 Hc 580 — *IStr* 105.3 *IA* 44.1 *IHS* 51.8 *IWsh* 23.5 — *CI* 83.2.
56. Age 30, Pete Thomas. — St 1680 Str 1780 Sh 1400 A 770 Hs 910 Wsh 410 Bha 87 Lfi 85 Lfa 460 — Lh 192 Bh 158 Wf 147 Hfi 175 HfII 118 Hn 44 Wn 39 Le 69 Vc 370 Hc 575 — *IStr* 106.0 *IA* 45.8 *IHS* 54.2 *IWsh* 24.4 — *CI* 82.3.

¹ Father, Sacramento Valley; mother, Foot-Hill region.² Father, half Washoe.³ Father, half Washoe, half Maidu of Mountain region; mother, Pit River.

57. Age 35, John Roy. — St 1640 Str 1770 Sh 1370 A 795 Hs 890 Wsh 360 Bha 90 Lfi 90 Lfa 460 — Lh 192 Bh 159 Wf 153 Hfl 177 HfII 125 Hn 48 Wn 40 Le 67 Vc 370 Hc 575 — *I*Str 107.9 *IA* 48.2 *I*Hs 53.9 *I*Wsh 21.8 — *CI* 82.8.
58. Age 40, Sam Roy. — St 1650 Str 1760 Sh 1350 A 750 Hs 870 Wsh 410 Bha 90 Lfi 93 Lfa 460 — Lh 189.5 Bh 158 Wf 150 Hfl 162 HfII 121 Hn 45 Wn 43 Le 64 Vc 360 Hc 560 — *I*Str 106.7 *IA* 45.5 *I*Hs 52.7 *I*Wsh 24.9 — *CI* 83.2.

II. *Females*.

59. Age 30, Mary Roy. — St 1610 Str 1630 Sh 1320 A 670 Hs 850 Wsh 350 Bha 82 Lfi 87 Lfa 430 — Lh 187 Bh 150 Wf 137 Hfl 168 HfII 119 Hn 46 Wn 37 Le 64 Vc 365 Hc 575 — *I*Str 101.3 *IA* 41.6 *I*Hs 52.8 *I*Wsh 21.8 — *CI* 80.2.
60. Age 50, Lucy. — St 1560 Str 1640 Sh 1280 A 800 Hs 780 Wsh 295 Bha 75 Lfi 90 — Lh 191 Bh 148 Wf 142 Hfl 154 HfII 107 Hn 46 Wn 42 Le 68 — *I*Str 105.1 *I*Hs 50.0 *I*Wsh 29.0 — *CI* 77.5.

HAT CREEK AND PIT RIVER.

Observer: R. B. Dixon.

I. *Males*.

61. Age 22, Ike Tom.¹ — St 1790 Str 1910 Sh 1510 A 870 Hs 950 Wsh 415 Bha 91 Lfi 99 — Lh 193 Bh 157 Wf 151 Hfl 182 HfII 131 Hn 53 Wn 38 Le 72 Vc 370 Hc 570 — *I*Str 106.7 *IA* 48.6 *I*Hs 53.1 *I*Wsh 23.2 — *CI* 81.3.
62. Age 30, Alec Tom.¹ — St 1780 Str 1880 Sh 1500 A 800 Hs 930 Wsh 425 Bha 90 Lfi 97 Lfa 490 — Lh 199 Bh 161 Wf 154 Hfl 189 HfII 130 Hn 53 Wn 40 Le 70 Vc 385 Hc 575 — *I*Str 105.6 *IA* 44.9 *I*Hs 52.2 *I*Wsh 23.9 — *CI* 80.9.
63. Age 50, Capt. Charles.² — St 1650 Str 1710 Sh 1380 A 740 Hs 890 Wsh 390 Bha 88 Lfi 93 — Lh 201 Bh 161 Wf 152 Hfl 163 HfII 128 Hn 52 Wn 46 Le 73 Vc 380 Hc 585 — *I*Str 103.6 *IA* 44.9 *I*Hs 53.9 *I*Wsh 23.6 — *CI* 80.1.

II. *Females*.

64. Age 25, Maggie.³ — St 1590 Str 1640 Sh 1310 A 720 Hs 830 Wsh 380 Bha 75 Lfi 83 — Lh 185 Bh 150 Wf 140 Hfl 162 HfII 115 Hn 43 Wn 32 Le 60 — *I*Str 103.2 *IA* 45.3 *I*Hs 52.2 *I*Wsh 23.9 — *CI* 81.1.

¹ Father, Hat Creek; mother, Maidu of Mountains.² Father, Maidu of Mountains; mother, Hat Creek.³ Father, Maidu of Mountains; mother, Pit River.

65. Age 25, Lucy.¹—St 1580 Str 1630 Sh 1320 A 730 Hs 880
Wsh 380 Bha 85 Lfi 85—Lh 178 Bh 161 Wf 143 Hfl
180 HfII 118 Hn 50 Wn 34 Le 62 Vc 380 Hc 590—
IStr 103.2 *IA* 46.2 *IHs* 55.7 *IWsh* 24.1—*CI* 90.5.
66. Age 35, Kate Charlie.¹—St 1590 Str 1580 Sh 1300 A 700 Hs
860 Wsh 370 Bha 82 Lfi 90 Lfa 420—Lh 188 Bh 160
Wf 149 Hfl 176 HfII 120 Hn 50 Wn 36 Le 65 Vc 405
Hc 605—*IStr* 99.4 *IA* 44.0 *IHs* 54.1 *IWsh* 23.3—*CI* 85.1.
67. Age 45, Annie Thomson.²—St 1540 Str 1550 Sh 1280 A 700
Hs 800 Wsh 340 Bha 84 Lfi 87—Lh 172 Bh 157. Wf 143
Hfl 154 HfII 110 Hn 46.5 Wn 38 Le 67—*IStr* 100.7
IA 45.5 *IHs* 51.9 *IWsh* 22.1—*CI* 91.3.
68. Age 50, Mary.³—St 1540 Str 1550 Sh 1260 A 710 Hs 850
Wsh 345 Bha 80 Lfi 80—Lh 178 Bh 167 Wf 148 Hfl
178 HfII 116 Hn 50 Wn 35.5 Le 68 Vc 380 Hc 575—
IStr 100.7 *IA* 46.1 *IHs* 55.2 *IWsh* 22.4—*CI* 93.8.

PIUTE.

Observer: R. B. Dixon.

Male.

69. Age 25, Dick.—St 1560 Str 1720 Sh 1350 A 740 Hs 790
Wsh 405 Bha 83 Lfi 90 Lfa 450—Lh 188 Bh 155 Wf
149 Hfl 182 HfII 113 Hn 45 Wn 40 Le 65 Vc 375
Hc 565—*IStr* 110.3 *IA* 47.4 *IHs* 50.7 *IWsh* 26.0—*CI*
82.4.

POMO.

Observer: R. B. Dixon.

Male.

70. Age 35, Charles Goodwin.—St 1800 Str 1830 Sh 1500 A 780
Hs 920 Wsh 400 Bha 90 Lfi 98—Lh 191 Bh 157 Wf 140
Hfl 180 HfII 126 Hn 50 Wn 39 Le 64 Vc 350 Hc 560
—*IStr* 101.7 *IA* 43.3 *IHs* 51.1 *IWsh* 22.2—*CI* 82.2.

POMO.

Observer: V. K. Chesnut.

I. *Males.*

71. Age 7, Wilsey McLean.⁴—St 1161 Str 1196 Sh 905 A 503
Hs 611 Wsh 237—Lh 171 Bh 150 Wf 120 Hf 99 Hn 39
Wn 32—*CI* 87.7.

¹ Father, Maidu of Mountains; mother, Hat Creek.² Pit River.³ Hat Creek.⁴ Father, Maidu of Foot-Hills; mother, Pomo.

72. Age 7, Leland Fullider. — St 1283 Str 1323 Sh 1047 A 569
Hs 703 Wsh 294 — Lh 180 Bh 140 Wf 127 Hf 100 Hn
35 Wn 36 — *CI* 77.8.
73. Age 15, Lee Jackson. — St 1492 Str 1532 Sh 1234 A 704 Hs
800 Wsh 310 — Lh 178 Bh 149 Wf 131 Hf 104 Hn 40
Wn 40 — *CI* 83.7.
74. Age 15, Isaac Williams. — St 1543 Str 1605 Sh 1298 A 732
Hs 760 Wsh 306 — Lh 188 Bh 145 Wf 134 Hf 110 Hn
42 Wn 41 — *CI* 77.1.
75. Age 15, Henry Greaves. — St 1716 Str 1721 Sh 1397 A 771
Hs 876 Wsh 325 — Lh 197 Bh 160 Wf 146 Hf 114 Hn
47 Wn 42 — *CI* 81.2.
76. Age 27, Jim Brown. — St 1648 Str 1741 Sh 1373 A 740 Hs
866 Wsh 380 — Lh 191 Bh 153 Wf 142 Hf 107 Hn 46
Wn 42 — *CI* 80.1.
77. Age 30, John Reilly. — St 1610 Str 1815 Sh 1357 A 758 Hs
805 Wsh 377 — Lh 186 Bh 151 Wf 149 Hf 111 Hn 47
Wn 47 — *CI* 81.2.
78. Age 40, James Jameson. — St 1649 Str 1760 Sh 1337 A 744
Hs 880 Wsh 387 — Lh 187 Bh 163 Wf 151 Hf 123 Hn
55 Wn 42 — *CI* 87.2.
79. Age 40, Jack Coates. — St 1686 Str 1736 Sh 1387 A 775 Hs
860 Wsh 385 — Lh 196 Bh 167 Wf 155 Hf 113 Hn 50
Wn 47 — *CI* 85.2.
80. Age 50, Thomas Wright. — St 1688 Str 1768 Sh 1382 A 751
Hs 895 Wsh 374 — Lh 200 Bh 146 Wf 152 Hf 119 Hn
51 Wn 52 — *CI* 73.0.
81. Age 65, Ben Sawyer. — St 1606 Str 1744 Sh 1354 A 746 Hs
775 Wsh 360 — Lh 187 Bh 150 Wf 151 Hf 100 Hn 39
Wn 49 — *CI* 80.2.
82. Age 66, Wm. Potter. — St 1579 Str 1672 Sh 1297 A 755 Hs
828 Wsh 362 — Lh 182 Bh 145 Wf 149 Hf 108 Hn 50
Wn 44 — *CI* 79.7.

II. *Females.*

83. Age 18, Josephine Hughes. — St 1499 Str 1560 Sh 1234 A 689
Hs 817 Wsh 330 — Lh 176 Bh 146 Wf 133 Hf 108 Hn
46 Wn 35 — *CI* 83.0.
84. Age —, Annie Fullider. — Lh 174 Bh 151 Wf 142 Hf 109
Hn 50 Wn 37 — *CI* 86.8.

85. Age 10, Mabel Jameson.¹ — St 1415 Str 1447 Sh 1164 A 629
Hs 727 Wsh 293 — Lh 171 Bh 139 Wf 126 Hf 94 Hn 44
Wn 32 — *CI* 81.3.
86. Age 12, Ada Bell. — St 1382 Str 1417 Sh 1120 A 616 Hs 700
Wsh 284 — Lh 180 Bh 142 Wf 126 Hf 99 Hn 37 Wn 33
— *CI* 78.9.
87. Age 14, Annie Fullider. — St 1542 Str 1570 Sh 1254 A 661
Hs 809 Wsh 360 — Lh 186 Bh 144 Wf 141 Hf 106 Hn
42 Wn 37 — *CI* 77.4.
88. Age 16, Martha Fullider. — St 1552 Str 1626 Sh 1262 A 689
Hs 813 Wsh 342 — Lh 186 Bh 144 Wf 137 Hf 106 Hn
43 Wn 36 — *CI* 77.4.
89. Age 19, Cecilia Crabtree. — St 1582 Str 1666 Sh 1318 A 704
Hs 829 Wsh 366 — Lh 186 Bh 148 Wf 137 Hf 104 Hn
39 Wn 38 — *CI* 79.6.
90. Age 25, Molly Clay. — St 1609 Str 1652 Sh 1322 A 698 Hs
834 Wsh 365 — Lh 178 Bh 152 Wf 138 Hf 121 Hn 48
Wn 38 — *CI* 85.4.
91. Age 35, Jean Waybolds. — St 1530 Str 1599 Sh 1273 A 671
Wsh 342 — Lh 177 Bh 137 Wf 134 Hf 110 Hn 45 Wn
42 — *CI* 77.4.
92. Age 38, Emily Seega. — St 1647 Str 1704 Sh 1355 A 718
Hs 864 Wsh 390 — Lh 186 Bh 161 Wf 147 Hf 117 Hn 46
Wn 37 — *CI* 86.5.
93. Age 45, Nancy Clay. — St 1527 Str 1548 Sh 1255 A 662 Hs
817 Wsh 320 — Lh 187 Bh 143 Wf 134 Hf 115 Hn 41
Wn 40 — *CI* 76.5.
94. Age 45, Mary Fullider. — St 1556 Str 1598 Sh 1314 A 702
Hs 833 Wsh 345 — Lh 185 Bh 142 Wf 140 Hf 112 Hn
45 Wn 36 — *CI* 76.8.
95. Age 50, Mary Coates. — St 1547 Str 1545 Sh 1286 A 677 Hs
849 Wsh 356 — Lh 174 Bh 149 Wf 143 Hf 98 Hn 44
Wn 41 — *CI* 85.6.
96. Age 75, Lizzy Sawyer. — St 1447 Str 1506 Sh 1213 A 645
Hs 712 Wsh 303 — Lh 190 Bh 145 Wf 137 Hf 107 Hn
44 Wn 41 — *CI* 76.3.
97. Age —, Lucilia Crabtree. — St 1592 Str 1635 Sh 1324 A 696
Wsh 326 — Lh 179 Bh 145 Wf 136 Hf 100 Hn 40 Wn
39 — *CI* 81.0.

¹ Father, Pomo; mother, Yuki.

YUKI AND POMO MIXED.

Observer: V. K. Chesnut.

I. *Male*.

98. Age 16, James Woods.¹—St 1645 Str 1735 Sh 1376 A 733
Hs 862 Wsh 322—Lh 181 Bh 152 Wf 138 Hf 111 Hn
52 Wn 41—CI 78.5.

II. *Female*.

99. Age 38, Jennie Frank.¹—St 1479 Str 1544 Sh 1270 A 729
Hs 793 Wsh 349—Lh 169 Bh 144 Wf 140 Hf 102 Hn
40 Wn 38—CI 85.2.

YUKI.

Observer: R. B. Dixon.

Male.

100. Age 33, Charles Dorman.—St 1750 Str 1870 Sh 1440 A 790
Hs 910 Wsh 380 Bha 96 Lfi 109—Lh 199 Bh 154 Wf
146 HfI 190 HfII 122 Hn 51 Wn 40 Le 66 Vc 350
Hc 590—IStr 106.9 IA 45.1 IHS 52.0 IWsh 21.7—CI 77.4.

Observer: V. K. Chesnut.

I. *Males*.

101. Age 7, Bill Garfield.—St 1300 Str 1321 Sh 1020 A 569
Hs 705 Wsh 295—Lh 185 Bh 143 Wf 129 Hf 100 Hn
37 Wn 37—CI 77.3.
102. Age 13, Fred Corney.—St 1523 Str 1548 Sh 1267 A 663
Hs 800 Wsh 353—Lh 182 Bh 152 Wf 135 Hf 108 Hn
42 Wn 38—CI 83.5.
103. Age 18, John Duncon.—St 1667 Str 1743 Sh 1361 Hs 856
Wsh 368—Lh 192 Bh 149 Wf 146 Hf 121 Hn 51 Wn
39—CI 77.6.
104. Age 18, Ralph Henley.—St 1600 Str 1637 Sh 1321 A 684
Wsh 371—Lh 188 Bh 157 Wf 146 Hf 110 Hn 47 Wn
42—CI 83.5.
105. Age 21, Alfred Brown.—Str 1884 Wsh 371—Lh 202 Bh 155
Wf 144 Hf 119 Hn 51 Wn 40—CI 76.7.
106. Age 30, Chas. Simonds.—St 1720 Str 1763 Sh 1428 A 757
Hs 897 Wsh 380—Lh 200 Bh 154 Wf 150 Hf 115 Hn
46 Wn 40—CI 77.0.

¹ Father, Yuki; mother, Pomo.

107. Age 30, John Lawly. — St 1622 Str 1694 Sh 1341 A 708
Hs 850 Wsh 376 — Lh 190 Bh 153 Wf 144 Hf 119 Hn
52 Wn 41 — *CI* 80.6.
108. Age 45, John Scott. — St 1607 Str 1651 Sh 1338 A 727
Hs 833 Wsh 377 — Lh 201 Bh 149 Wf 149 Hf 113 Hn
45 Wn 45 — *CI* 74.1.
109. Age 48, Dick Henley. — St 1553 Str 1630 Sh 1271 A 673
Hs 836 Wsh 385 — Lh 197 Bh 150 Wf 147 Hf 112 Hn
48 Wn 41 — *CI* 76.1.
110. Age 50, Long Frank. — St 1652 Str 1737 Sh 1385 A 770
Hs 867 Wsh 382 — Lh 196 Bh 145 Wf 146 Hf 114 Hn
51 Wn 40 — *CI* 74.0.
111. Age 50, Geo. Henley. — St 1568 Str 1623 Sh 1283 A 714
Hs 824 Wsh 351 — Lh 185 Bh 140 Wf 140 Hf 121 Hn
53 Wn 41 — *CI* 75.7.
112. Age 50, Dutchman. — St 1503 Str 1579 Sh 1251 A 699 Hs
798 Wsh 357 — Lh 194 Bh 148 Wf 144 Hf 110 Hn 43
Wn 45 — *CI* 76.3.
113. Age 50, James Woods. — St 1545 Str 1625 Sh 1304 A 699
Hs 809 Wsh 360 — Lh 193 Bh 150 Wf 145 Hf 119 Hn
51 Wn 45 — *CI* 77.7.
114. Age 52, Mike Hunter. — St 1567 Str 1654 Sh 1284 A 708
Hs 829 Wsh 377 — Lh 200 Bh 149 Wf 149 Hf 119 Hn
51 Wn 42 — *CI* 74.5.
115. Age 52, Jeff. Davis. — St 1613 Str 1708 Sh 1344 A 748 Hs
860 Wsh 373 — Lh 200 Bh 157 Wf 150 Hf 111 Hn 47
Wn 44 — *CI* 78.5.
116. Age 55, Ukie Ben. — St 1525 Str 1622 Sh 1283 A 706 Hs
790 Wsh 351 — Lh 193 Bh 148 Wf 143 Hf 118 Hn 56
Wn 44 — *CI* 76.7.
117. Age 57, Sam. Green. — St 1625 Str 1718 Sh 1338 A 756
Hs 838 Wsh 379 — Lh 207 Bh 151 Wf 146 Hf 110 Hn
52 Wn 42 — *CI* 73.0.
118. Age 60, Nick Douglass. — St 1522 Str 1618 Sh 1285 A 721
Hs 797 Wsh 347 — Lh 191 Bh 150 Wf 150 Hf 106 Hn
47 Wn 44 — *CI* 78.5.
119. Age 60, Nomelly. — St 1533 Str 1615 Sh 1245 A 688 Hs
815 Wsh 358 — Lh 196 Bh 148 Wf 148 Hf 118 Hn 51
Wn 44 — *CI* 75.5.
120. Age 60, Linya. — St 1588 Str 1668 Sh 1300 A 700 Hs 798
Wsh 363 — Lh 191 Bh 144 Wf 142 Hf 104 Hn 46 Wn
44 — *CI* 75.4.

121. Age 60, Old Billy. — St 1528 Str 1593 Sh 1293 A 743 Hs 787 Wsh 331 — Lh 192 Bh 145 Wf 145 Hf 111 Hn 46 Wn 44 — *CI* 75.5.
122. Age 65, "Oscar." — St 1527 Str 1653 Sh 1283 A 746 Hs 794 Wsh 358 — Lh 190 Bh 142 Wf 148 Hf 115 Hn 55 Wn 39 — *CI* 74.8.
123. Age 65, Major Jingle. — St 1605 Str 1677 Sh 1287 A 726 Hs 783 Wsh 341 — Lh 184 Bh 137 Wf 149 Hf 108 Hn 48 Wn 43 — *CI* 74.4.
124. Age 65, Liny Fenton. — St 1550 Str 1609 Sh 1320 A 687 Wsh 355 — Lh 192 Bh 143 Wf 147 Hf 107 Hn 42 Wn 50 — *CI* 74.5.
125. Age 67, Ute. — St 1683 Str 1728 Sh 1424 A 741 Hs 896 Wsh 372 — Lh 203 Bh 148 Wf 146 Hf 119 Hn 53 Wn 44 — *CI* 73.0.
126. Age 75, Jim Short. — St 1599 Str 1670 Sh 1344 A 712 Hs 843 Wsh 397 — Lh 190 Bh 151 Wf 154 Hf 116 Hn 48 Wn 44 — *CI* 79.6.

II. Females.

127. Age 9, Abbie Davis. — St 1304 Str 1360 Sh 1065 A 578 Hs 660 Wsh 296 — Lh 175 Bh 145 Wf 125 Hf 98 Hn 38 Wn 32 — *CI* 82.9.
128. Age 13, Minnie Joe. — St 1335 Str 1400 Sh 1070 A 575 Hs 671 Wsh 283 — Lh 180 Bh 137 Wf 124 Hf 105 Hn 42 Wn 36 — *CI* 76.1.
129. Age 15, Minnie Scott. — St 1516 Str 1544 Sh 1250 A 649 Hs 800 Wsh 335 — Lh 191 Bh 147 Wf 140 Hf 109 Hn 45 Wn 38 — *CI* 77.0.
130. Age 17, Mary Anderson. — St 1516 Str 1563 Sh 1240 A 688 Wsh 322 — Lh 184 Bh 141 Wf 130 Hf 112 Hn 46 Wn 37 — *CI* 76.6.
131. Age 18, Minnie Jackson. — St 1472 Str 1552 Sh 1209 A 663 Hs 776 Wsh 354 — Lh 184 Bh 144 Wf 134 Hf 102 Hn 42 Wn 37 — *CI* 78.3.
132. Age 18, Annie Anderson. — St 1538 Str 1575 Sh 1265 A 683 Hs 827 Wsh 335 — Lh 179 Bh 137 Wf 130 Hf 104 Hn 44 Wn 36 — *CI* 76.5.
133. Age 19, Cecilia Johns. — St 1556 Str 1577 Sh 1284 A 682 Hs 816 Wsh 355 — Lh 195 Bh 150 Wf 141 Hf 105 Hn 40 Wn 39 — *CI* 76.9.
134. Age 25, Ella Weed. — St 1390 Str 1427 Sh 1154 A 598 Hs

- 750 Wsh 315 — Lh 178 Bh 137 Wf 130 Hf 105 Hn 42
Wn 33 — *CI* 77.0.
135. Age 25, Annie Lou. — St 1442 Str 1516 Sh 1215 A 674 Wsh
307 — Lh 182 Bh 145 Wf 136 Hf 101 Hn 37 Wn 34 —
CI 79.7.
136. Age 30, Lizzie Henley. — St 1488 Str 1544 Sh 1230 A 650
Hs 786 Wsh 339 — Lh 181 Bh 145 Wf 134 Hf 105 Hn
44 Wn 40 — *CI* 80.1.
137. Age 37, Mary Davis. — St 1497 Str 1523 Sh 1274 A 674 Hs
797 Wsh 338 — Lh 180 Bh 140 Wf 137 Hf 105 Hn 46
Wn 36 — *CI* 77.8.
138. Age 38, Susie Jameson. — St 1534 Str 1618 Sh 1283 A 675
Wsh 354 — Lh 176 Bh 147 Wf 141 Hf 109 Hn 45 Wn
38 — *CI* 83.5.
139. Age 40, Pauline Stone. — St 1523 Str 1562 Sh 1262 A 664
Hs 808 Wsh 351 — Lh 190 Bh 144 Wf 138 Hf 111 Hn
47 Wn 38 — *CI* 75.8.
140. Age 40, Julia Wood. — St 1437 Str 1469 Sh 1212 A 625 Hs
782 Wsh 334 — Lh 185 Bh 136 Wf 134 Hf 105 Hn 42
Wn 36 — *CI* 73.5.
141. Age 40, Lizzie Scott. — St 1539 Str 1584 Sh 1273 A 680 Hs
817 Wsh 340 — Lh 185 Bh 148 Wf 144 Hf 119 Hn 45
Wn 40 — *CI* 80.0.
142. Age 40, Lizzie. — St 1434 Str 1482 Sh 1202 A 640 Hs 754
Wsh 322 — Lh 194 Bh 147 Wf 145 Hf 101 Hn 40 Wn
41 — *CI* 75.8.
143. Age 45, Sally. — St 1486 Str 1489 Sh 1240 A 633 Hs 780
Wsh 323 — Lh 185 Bh 141 Wf 137 Hf 101 Hn 42 Wn
37 — *CI* 76.2.
144. Age 50, Maria Wright. — St 1490 Str 1538 Sh 1254 A 660
Wsh 339 — Lh 186 Bh 158 Wf 141 Hf 117 Hn 43 Wn
40 — *CI* 85.0.
145. Age 55, Jennie Lowen. — St 1457 Str 1488 Sh 1212 A 638
Hs 742 Wsh 291 — Lh 187 Bh 143 Wf 135 Hf 102 Hn
43 Wn 35 — *CI* 76.5.
146. Age 60, Nellie Frank. — St 1480 Str 1490 Sh 1230 A 658
Hs 796 Wsh 309 — Lh 191 Bh 138 Wf 136 Hf 109 Hn
46 Wn 41 — *CI* 72.2.
147. Age 70, Jeanie Douglass. — St 1475 Str 1516 Sh 1210 A 614
Hs 813 Wsh 330 — Lh 182 Bh 148 Wf 136 Hf 91 Hn
38 Wn 40 — *CI* 81.3.

WINTUN.

Observer: V. K. Chesnut.

Females.

148. Age 32, Lizzie Done. — St 1546 Str 1614 Sh 1279 A 650 Hs 810 Wsh 314 — Lh 185 Bh 152 Wf 134 Hf 109 Hn 46 Wn 37 — CI 82.2.
149. Age 40, Fanny Pollard. — St 1508 Str 1630 Sh 1269 A 692 Hs 850 Wsh 336 — Lh 188 Bh 147 Wf 145 Hf 111 Hn 43 Wn 41 — CI 78.2.

YOKUT.

Observer: V. K. Chesnut.

Male.

150. Age 35, Jim Henley. — St 1643 Str 1717 Sh 1362 A 726 Hs 865 Wsh 371 — Lh 190 Bh 157 Wf 151 Hf 122 Hn 48 Wn 47 — CI 82.7.

WINTUN AND YUKI MIXED.

Observer: V. K. Chesnut.

Female.

151. Age 25, Nettie Smith.¹ — St 1476 Str 1519 Sh 1215 A 635 Hs 800 Wsh 310 — Lh 189 Bh 149 Wf 140 Hf 101 Hn 42 Wn 38 — CI 78.9.

WYLACKIE.

Observer: V. K. Chesnut.

Males.

152. Age 60, Logan Gobert.² — St 1615 Str 1715 Sh 1359 A 743 Hs 773 Wsh 354 — Lh 198 Bh 148 Wf 151 Hf 117 Hn 51 Wn 44 — CI 74.7.
153. Age 50, Wylackie Charlie. — St 1600 Str 1654 Sh 1323 A 709 Wsh 379 — Lh 205 Bh 148 Wf 146 Hf 112 Hn 44 Wn 43 — CI 72.2.

HALF-BREEDS.

Observer: R. B. Dixon.

I. *Males.*

154. Age 19, Jack Cunningham. — St 1770 Str 1910 Sh 1470 A 830 Hs 900 Wsh 370 Bha 89 Lfi 103 — Lh 196 Bh 157

¹ Father, Wintun; mother, Yuki.

² Father, Wylackie; mother, Yuki.

- Wf 147 HfI 185 HfII 123 Hn 43 Wn 40 Le 57 Vc 370
Hc 580 — *IStr* 107.9 *IA* 46.9 *IHS* 50.8 *IWsh* 20.9 — *CI* 80.1
(F. White, M. Maidu of Mountains).
155. Age 30, Enoch Pollard. — St 1820 Str 1840 Sh 1580 A 890
Hs 930 Wsh 410 Bha 90 Lfi 100 — Lh 199 Bh 162 Wf
150 HfI 201 HfII 128 Hn 60 Wn 40 Le 66 Vc 380 Hc
590 — *IStr* 101.1 *IA* 48.9 *IHS* 51.1 *IWsh* 22.5 — *CI* 81.4
(F. White, half Wintun; M. Wintun).
156. Age 30, John Duncan. — St 1640 Str 1710 Sh 1360 A 720
Hs 890 Wsh 375 Bha 86 Lfi 93 — Lh 199 Bh 162 Wf
153 HfI 186 HfII 122 Hn 53 Wn 41 Le 53 Vc 350 Hc
590 — *IStr* 104.3 *IA* 43.9 *IHS* 54.3 *IWsh* 22.9 — *CI* 81.4
(F. White, M. Maidu of Mountains).
157. Age 35, Sandy Wilson. — St 1600 Str 1710 Sh 1310 A 720
Hs 840 Wsh 360 Bha 92 Lfi 92 Lfa 440 — Lh 184 Bh
147 Wf 140 HfI 182 HfII 116 Hn 50 Wn 37 Le 62
Vc 330 Hc 540 — *IStr* 106.9 *IA* 45.0 *IHS* 52.5 *IWsh* 22.5
— *CI* 80.0 (F. Mexican, M. Maidu of Foot-Hills).
158. Age 35, Kurt Reeves. — St 1820 Str 1880 Sh 1490 A 820
Hs 940 Wsh 370 Bha 88 Lfi 98 — Lh 198 Bh 155 Wf
144 HfI 195 HfII 128 Hn 53 Wn 39 Le 71 Vc 370 Hc
570 — *IStr* 103.3 *IA* 45.0 *IHS* 51.6 *IWsh* 20.3 — *CI* 78.3
(F. White, M. Maidu of Mountains).
159. Age 35, Miram Kelly. — St 1710 Str 1760 Sh 1380 A 730
Hs 920 Wsh 400 Bha 87 Lfi 89 Lfa 460 — Lh 200.5 Bh
159 Wf 150 HfI 186 HfII 124 Hn 50 Wn 41 Le 66
Vc 370 Hc 590 — *IStr* 102.9 *IA* 42.7 *IHS* 53.8 *IWsh* 23.4
— *CI* 79.9 (F. Hawaiian, M. Maidu of Foot-Hills).
160. Age 40, Ebro Johnson. — St 1660 Str 1790 Sh 1360 A 780
Hs 850 Wsh 460 Bha 88 Lfi 92 Lfa 480 — Lh 176 Bh
164 Wf 153 HfI 174 HfII 117 Hn 48 Wn 44 Le 66 —
IStr 107.8 *IA* 47.0 *IHS* 51.2 *IWsh* 27.7 — *CI* 93.2 (White
blood in second generation, Maidu of Mountains).
161. Age 40, Frank Perry. — St 1740 Str 1840 Sh 1350 A 770
Wsh 395 Bha 92 Lfi 95 — Lh 200 Bh 157 Wf 136 HfI
175 HfII 118 Hn 53 Wn 38 Le 63 — *IStr* 105.8 *IA* 44.3
IWsh 22.7 — *CI* 78.5 (F. White, M. Maidu of Foot-Hills).
162. Age 40, John Mullins. — St 1680 Str 1750 Sh 1380 A 740
Hs 900 Wsh 400 Bha 84 Lfi 93 Lfa 460 — Lh 200 Bh
161 Wf 150 HfI 185 HfII 122 Hn 52 Wn 42 Le 63
Vc 370 Hc 580 — *IStr* 104.2 *IA* 44.0 *IHS* 53.6 *IWsh* 23.8
— *CI* 80.5 (F. White, M. Maidu of Foot-Hills).
163. Age 50, Lafonso. — St 1560 Str 1640 Sh 1310 A 690 Hs 820
Wsh 380 Bha 88 Lfi 86 Lfa 480 — Lh 187 Bh 157 Wf

149 HfI 187 HfII 126 Hn 53 Wn 46 Le 70 Vc 365
Hc 570 — *I*Str 105.1 *IA* 44.2 *I*Hs 52.6 *I*Wsh 24.4 — *CI* 84.0
(F. Mexican, M. Maidu of Sacramento Valley).

II. *Females*.

164. Age 30, Emma Lidger. — St 1560 Str 1620 Sh 1270 A 690
Wsh 365 Bha 80 Lfi 86 — Lh 191 Bh 153 Wf 138 HfI
188 HfII 113 Hn 43 Wn 38 Le 60 Vc 370 Hc 580 —
*I*Str 103.8 *IA* 44.2 *I*Wsh 23.4 — *CI* 80.1 (F. White, M.
Maidu of Foot-Hills).
165. Age 40, Mrs. Wilson. — St 1540 Str 1580 Sh 1250 A 670 Hs
830 Wsh 330 Bha 78 Lfi 87 Lfa 420 — Lh 182 Bh 146
Wf 135 HfI 172 HfII 109 Hn 41 Wn 36 Le 57 Vc 360
Hc 560 — *I*Str 102.6 *IA* 43.5 *I*Hs 53.9 *I*Wsh 21.4 — *CI* 80.2
(F. Mexican, M. Ololopa).

Observer: V. K. Chesnut.

MAIDU HALF-BREEDS.

I. *Males*.

166. Age 4½, Herbert Johnson. — St 976 Str 971 Sh 767 A 428
Hs 557 Wsh 122 — Lh 178 Bh 145 Wf 115 Hf 82 Hn 36
Wn 32 — *CI* 81.5 (F. ½ Spanish, ½ Maidu of Foot-Hills; M
same).
167. Age 5, John Brown. — St 1081 Str 1084 Sh 834 A 443 Hs
593 Wsh 229 — Lh 170 Bh 141 Wf 114 Hf 89 Hn 34
Wn 28 — *CI* 83.7 (F. Maidu of Foot-Hills, M. Spanish).
168. Age 8, Willie Perry. — St 1279 Str 1313 Sh 1050 A 588 Hs
686 Wsh 296 — Lh 176 Bh 139 Wf 116 Hf 92 Hn 36
Wn 31 — *CI* 79.0 (F. ½ White, ½ Maidu of Foot-Hills; M.
Maidu of Foot-Hills with some white blood).
169. Age 13, John Franco. — St 1527 Str 1529 Sh 1268 A 682
Hs 770 Wsh 330 — Lh 187 Bh 150 Wf 133 Hf 111 Hn
49 Wn 37 — *CI* 80.2 (F. Spanish, M. Maidu of Foot-Hills).
170. Age 25, John Wilsey. — St 1756 Str 1809 Sh 1457 A 775
Hs 910 Wsh 363 — Lh 188 Bh 152 Wf 136 Hf 121 Hn 55
Wn 38 — *CI* 80.9 (F. White, M. Southern Maidu).
171. Age 28, Frank Feliz. — St 1695 Str 1750 Sh 1413 A 741
Hs 886 Wsh 370 — Lh 194 Bh 154 Wf 139 Hf 125 Hn
51 Wn 34 — *CI* 79.4 (F. Spanish, M. Maidu of Foot-Hills).
172. Age 32, Miltone Ayella. — St 1679 Str 1745 Sh 1392 A 784
Hs 860 Wsh 332 — Lh 190 Bh 151 Wf 137 Hf 115 Hn 44
Wn 34 — *CI* 79.5 (F. Spanish, M. Southern Maidu or Moque-
lumnán).

173. Age 50, Wm. Munsell. — St 1631 Str 1718 Sh 1354 A 730
Hs 868 Wsh 334 — Lh 201 Bh 150 Wf 138 Hf 120 Hn
48 Wn 46 — *CI* 74.6 (F. $\frac{1}{2}$ Spanish, $\frac{1}{2}$ Maidu of Foot-Hills;
M. Maidu of Foot-Hills).

II. *Females.*

174. Age 6, Martha Perry. — St 1076 Str 1124 Sh 852 A 464 Hs
593 Wsh 237 — Lh 174 Bh 137 Wf 112 Hf 85 Hn 37
Wn 30 — *CI* 78.7 (F. $\frac{1}{2}$ White, $\frac{1}{2}$ Maidu of Foot-Hills; M. Maidu
of Foot-Hills with some white blood).
175. Age 9, Florence Philips. — St 1264 Str 1250 Sh 1116 A 654
Hs 666 Wsh 261 — Lh 180 Bh 142 Wf 121 Hf 98 Hn
45 Wn 28 — *CI* 78.9 (F. Wylackie; M. $\frac{1}{2}$ Spanish, $\frac{1}{2}$ Maidu
of Foot-Hills).
176. Age 10, Alma Bercier. — St 1332 Str 1342 Sh 1096 A 567
Hs 682 Wsh 277 — Lh 176 Bh 137 Wf 126 Hf 102 Hn
38 Wn 33 — *CI* 77.8 (F. French, M. Maidu of Foot-Hills or
Wintun).
177. Age 14, Frankie Wesley. — St 1505 Str 1566 Sh 1254 A 678
Hs 787 Wsh 346 — Lh 176 Bh 138 Wf 125 Hf 102 Hn
40 Wn 30 — *CI* 78.4 (F. American, M. Maidu of Foot-Hills).
178. Age 20, Nancy Bercier. — St 1402 Str 1413 Sh 1138 A 618
Hs 792 Wsh 315 — Lh 181 Bh 148 Wf 135 Hf 110 Hn
44 Wn 32 — *CI* 81.8 (F. French, M. Maidu of Foot-Hills or
Wintun).
179. Age 23, Emma Moore. — St 1566 Str 1614 Sh 1335 A 733
Hs 835 Wsh 346 — Lh 190 Bh 152 Wf 137 Hf 105 Hn
42 Wn 37 — *CI* 80.1 (F. White, M. Maidu of Foot-Hills).
180. Age 23, Susie Perry. — St 1691 Str 1725 Sh 1416 A 759 Hs
887 Wsh 356 — Lh 189 Bh 144 Wf 130 Hf 106 Hn 43
Wn 34 — *CI* 76.2 (F. Maidu of Foot-Hills, M. same with some
white blood).
181. Age 25, Anna Felize. — St 1532 Str 1580 Sh 1257 A 672 Hs
835 Wsh 332 — Lh 196 Bh 149 Wf 133 Hf 105 Hn 46
Wn 33 — *CI* 760 (F. Spanish, M. Maidu of Foot-Hills).
182. Age 27, Beckie Brown. — St 1530 Str 1543 Sh 1300 A 697
Hs 811 Wsh 318 — Lh 182 Bh 143 Wf 132 Hf 111 Hn
42 Wn 36 — *CI* 78.6 (F. White, M. Maidu of Sacramento
Valley)
183. Age 33, Polly Johnson. — St 1559 Str 1592 Sh 1273 A 709
Hs 828 Wsh 337 — Lh 191 Bh 147 Wf 130 Hf 104 Hn
47 Wn 40 — *CI* 770 (F. $\frac{1}{2}$ Spanish, $\frac{1}{2}$ Maidu of Foot-Hills;
M. Maidu of Foot-Hills).

PIT RIVER HALF-BREEDS.

I. *Males.*

184. Age 16, Lorenzo Nuckolls. — St 1633 Str 1642 Sh 1369 A 691
Hs 826 Wsh 315 — Lh 192 Bh 156 Wf 137 Hf 113 Hn
47 Wn 36 — *CI* 81.2 (F. White, M. Maidu [?]).
185. Age 20, Pacenta Cione. — St 1628 Str 1742 Sh 1339 A 723
Hs 874 Wsh 358 — Lh 187 Bh 159 Wf 148 Hf 104 Hn
46 Wn 39 — *CI* 85.0 (F. Spanish, M. Pit River).

II. *Females.*

186. Age 9, Lolldortis Maria. — St 1284 Str 1289 Sh 1030 A 560
Hs 700 Wsh 272 — Lh 175 Bh 146 Wf 127 Hf 93 Hn
36 Wn 32 — *CI* 83.4 (F. $\frac{1}{2}$ Spanish, M. Pit River).
187. Age 14, Josepha Maria. — St 1393 Str 1427 Sh 1153 A 628
Hs 718 Wsh 314 — Lh 183 Bh 146 Wf 130 Hf 91 Hn
36 Wn 34 — *CI* 79.8 (F. $\frac{1}{2}$ Spanish, M. Pit River).

POMO HALF-BREEDS.

I. *Males.*

188. Age 13, Albert Frank. — St 1389 Str 1428 Sh 1137 A 628
Hs 722 Wsh 297 — Lh 177 Bh 140 Wf 126 Hf 103 Hn
43 Wn 35 — *CI* 79.1 (F. White; M. $\frac{1}{2}$ Yuki, $\frac{1}{2}$ Pomo).
189. Age 15, Carl Frank. — St 1503 Str 1518 Sh 1253 A 676 Hs
797 Wsh 297 — Lh 183 Bh 140 Wf 131 Hf 108 Hn 45
Wn 42 — *CI* 76.5 (F. White; M. $\frac{1}{2}$ Yuki, $\frac{1}{2}$ Pomo).
190. Age 30, Wm. Smith. — St 1870 Str 1896 Sh 1570 A 842 Hs
910 Wsh 337 — Lh 192 Bh 155 Wf 142 Hf 112 Hn 49
Wn 39 — *CI* 80.7 (F. White, M. Pomo).
191. Age 31, Raymond Brown. — St 1719 Str 1822 Sh 1409 A 787
Hs 890 Wsh 379 — Lh 192 Bh 135 Wf 140 Hf 119 Hn
52 Wn 38 — *CI* 70.3 (F. White, M. Pomo).

II. *Females.*

192. Age 3 $\frac{1}{2}$, Mary Crane. — St 922 Str 920 Sh 722 A 394 Wsh
214 — Lh 170 Bh 134 Wf 111 Hf 82 Hn 30 Wn 29 —
CI 78.8 (F. White; M. Pomo, mixed blood).
193. Age 6, Lelia Smith. — St 1155 Str 1143 Sh 902 A 486 Hs
609 Wsh 145 — Lh 177 Bh 145 Wf 112 Hf 94 Hn 36
Wn 30 — *CI* 81.9 (F. $\frac{1}{2}$ White, $\frac{1}{2}$ Pomo; M. same).
194. Age 7, Lena Smith. — St 1264 Str 1286 Sh 1016 A 516 Hs

- 671 Wsh 268 — Lh 170 Bh 139 Wf 118 Hf 94 Hn 37
Wn 29 — *CI* 81.8 (F. $\frac{1}{2}$ White, $\frac{1}{2}$ Pomo; M. same).
195. Age 17, Barbary Greaves. — St 1588 Str 1620 Sh 1321 A 731
Hs 812 Wsh 338 — Lh 189 Bh 152 Wf 137 Hf 103 Hn
45 Wn 33 — *CI* 80.5 (F. White, M. Pomo).
196. Age 20, Emma Smith. — St 1534 Str 1564 Sh 1265 A 684
Hs 809 Wsh 321 — Lh 176 Bh 140 Wf 135 Hf 100 Hn
47 Wn 34 — *CI* 79.5 (F. White, M. Pomo).
197. Age 25, Belle Smith. — St 1681 Str 1743 Sh 1420 A 736 Hs
829 Wsh 346 — Lh 188 Bh 142 Wf 128 Hf 107 Hn 46
Wn 35 — *CI* 75.5 (F. White, M. Pomo).
198. Age 30, Eliza Crane. — St 1534 Str 1565 Sh 1229 A 676 Hs
789 Wsh 334 — Lh 194 Bh 151 Wf 136 Hf 104 Hn 44
Wn 44 — *CI* 77.8 (F. $\frac{1}{2}$ Pomo).
199. Age —, Beulah Smith. — St 1113 Str 1128 Sh 885 A 464
Wsh 234 — Lh 176 Bh 139 Wf 120 Hf 83 Hn 34 Wn 28
— *CI* 79.0 (F. $\frac{1}{2}$ White, $\frac{1}{2}$ Pomo; M. same).

YUKI HALF-BREEDS.

I. *Males.*

200. Age 5, Fred Dorman. — St 1103 Str 1127 Sh 880 A 462 Hs
615 Wsh 240 — Lh 178 Bh 137 Wf 111 Hf 88 Hn 36
Wn 31 — *CI* 77.0 (F. Yuki; M. $\frac{1}{2}$ White, $\frac{1}{2}$ Yuki).
201. Age 7, Dan Dorman. — St 1181 Str 1197 Sh 940 A 530 Hs
643 Wsh 260 — Lh 174 Bh 143 Wf 117 Hf 86 Hn 35
Wn 32 — *CI* 82.2 (F. Yuki; M. $\frac{1}{2}$ White, $\frac{1}{2}$ Yuki).
202. Age 9, Jesse Frank. — St 1292 Str 1327 Sh 1058 A 580 Hs
682 Wsh 285 — Lh 179 Bh 141 Wf 122 Hf 93 Hn 40
Wn 33 — *CI* 78.8 (F. White; M. $\frac{1}{2}$ Yuki, $\frac{1}{2}$ Pomo).
203. Age 17, Geo. Moore. — St 1541 Str 1574 Sh 1242 A 669 Hs
825 Wsh 371 — Lh 185 Bh 150 Wf 138 Hf 108 Hn 47
Wn 40 — *CI* 81.1 (F. Spanish, M. Yuki).
204. Age 26, Geo. Dew. — St 1689 Str 1788 Sh 1401 A 762 Hs
863 Wsh 394 — Lh 191 Bh 150 Wf 150 Hf 116 Hn 47
Wn 39 — *CI* 78.5 (F. Spanish; M. $\frac{1}{2}$ Yuki, $\frac{1}{2}$ Maidu of Foot-Hills).
205. Age 27, Henry Murphy. — St 1694 Str 1734 Sh 1392 A 740
Hs 848 Wsh 386 — Lh 189 Bh 158 Wf 152 Hf 119 Hn
50 Wn 39 — *CI* 83.6 (F. White, M. Yuki).
206. Age 30, Jack Anderson. — St 1696 Str 1817 Sh 1403 A 789
Hs 867 Wsh 367 — Lh 197 Bh 147 Wf 142 Hf 120 Hn
52 Wn 38 — *CI* 74.6 (F. $\frac{1}{2}$ Yuki, $\frac{1}{2}$ White; M. Yuki).

II. *Females*.

207. Age 18, Jessie Duncan. — St 1550 Str 1557 Sh 1274 A 661
Hs 509 Wsh 340 — Lh 178 Bh 153 Wf 133 Hf 104 Hn
46 Wn 37 — CI 86.0 (F. White, M. Pit River [?]).
208. Age 24, Maggie Dorman. — St 1600 Str 1670 Sh 1317 A 721
Hs 846 Wsh 364 — Lh 187 Bh 143 Wf 136 Hf 107 Hn
49 Wn 41 — CI 76.5 (F. White, M. Yuki).

WINTUN HALF-BREEDS.

I. *Males*.

209. Age 10, Roy Steele. — St 1313 Str 1266 Sh 1067 A 566 Hs
707 Wsh 278 — Lh 178 Bh 141 Wf 128 Hf 99 Hn 40
Wn 33 — CI 79.2 (F. Wintun, M. $\frac{1}{2}$ White, $\frac{1}{2}$ Wintun).
210. Age 28, Henry Hayes. — St 1679 Str 1669 Sh 1400 A 704
Hs 888 Wsh 385 — Lh 195 Bh 158 Wf 146 Hf 116 Hn
50 Wn 40 — CI 81.0 (F. White, M. Wintun).

II. *Females*.

211. Age 5, Josie Smith. — St 944 Str 948 Sh 718 A 394 Hs 520
Wsh 204 — Lh 168 Bh 134 Wf 118 Hf 79 Hn 31 Wn 30
— CI 79.8 (F. Negro; M. $\frac{1}{2}$ Yuki, $\frac{1}{2}$ Wintun).
212. Age 14, Callie Pollard. — St 1545 Str 1561 Sh 1278 A 734
Hs 792 Wsh 329 — Lh 186 Bh 143 Wf 137 Hf 111 Hn
45 Wn 36 — CI 76.9 (F. Wintun; M. $\frac{1}{2}$ White, $\frac{1}{2}$ Wintun).
213. Age 29, Maggie Hoxie. — St 1597 Str 1645 Sh 1230 A 613
Hs 864 Wsh 360 — Lh 187 Bh 147 Wf 141 Hf 117 Hn
46 Wn 37 — CI 78.6 (F. $\frac{1}{2}$ White, $\frac{1}{2}$ Wintun; M. Wintun).

MISCELLANEOUS.

I. *Males*.

214. Age 24, Alex Fraser. — St 1765 Str 1900 Sh 1467 A 814
Hs 863 Wsh 396 — Lh 205 Bh 157 Wf 150 Hf 112 Hn
46 Wn 39 — CI 76.6 (F. White; M. Kato, Athapascan).
215. Age —, Walter Clark. — St 1704 Str 1750 Sh 1424 A 738
Hs 868 Wsh 371 — Lh 189 Bh 147 Wf 142 Hf 112 Hn
45 Wn 34 — CI 77.8 (F. ?, M. ?).

II. *Female*.

216. Age 35, Kate Webber. — St 1537 Str 1558 Sh 1284 A 681
Wsh 342 — Lh 181 Bh 138 Wf 137 Hf 109 Hn 43 Wn
44 — CI 76.2 (F. ?, M. ?).

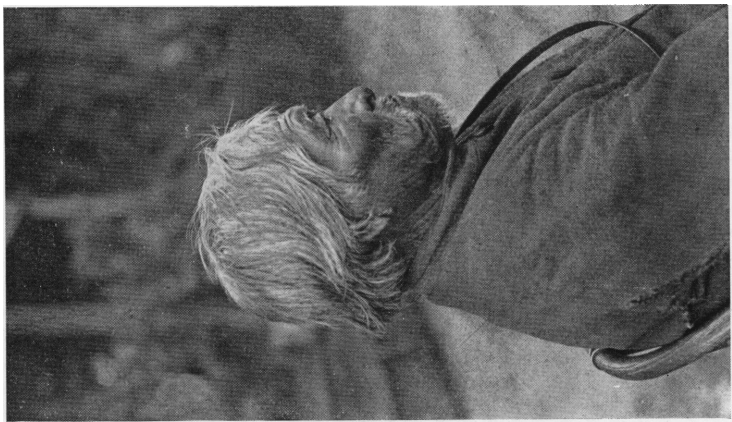
TABLE OF RELATIONSHIPS.

f=father; m=mother; so=son; d=daughter; br=brother; si=sister

2 br of 3	87 d of 94	178 si of 176
3 br of 2	87 si of 72, 88	180 m of 168, 174
5 f of 48	88 d of 94	181 m of 175
6 so of 13	88 si of 72, 87	183 m of 166
7 so of 22, 24	93 m of 74	183 d of 173
11 br of 25	94 m of 72, 87, 88	185 $\frac{1}{2}$ br of 186, 187
13 f of 6	99 m of 188, 189, 202	186 si of 187
14 f of 26	100 f of 200, 201	186 $\frac{1}{2}$ si of 185
19 br of 20	104 so of 109	187 si of 186
20 br of 19	105 so of 125	187 $\frac{1}{2}$ si of 185
22 f of 7	109 f of 104	188 so of 99
24 m of 7	115 f of 127	188 br of 189, 202
25 si of 11	125 f of 105	189 so of 99
26 d of 14, 28	127 d of 115, 137	189 br of 188, 202
28 m of 26	133 $\frac{1}{2}$ si of 208	190 f of 199
29 so of 34	137 m of 127	192 d of 198
34 f of 29	138 m of 85	193 d of 197
38 f of 42, 44	142 si of 143	193 si of 194
42 d of 38	143 si of 142	194 d of 197
42 si of 44	149 m of 155, 213	194 si of 193
44 d of 38	151 m of 211	196 m of 199
44 si of 42	154 br of 158	197 m of 193, 194
48 d of 5	155 so of 149	198 m of 192
51 br of 56	155 br of 213	199 d of 190, 196
56 br of 51	158 br of 154	200 so of 100, 208
61 br of 62	161 f of 168, 174	200 br of 201
62 br of 61	166 so of 183	201 so of 100, 208
64 grandd of 67	166 grandso of 173	201 br of 200
65 si of 66	168 so of 161, 180	202 br of 188, 189
66 si of 65	168 br of 174	202 so of 99
67 grandm of 64	173 f of 183	208 m of 200, 201
72 so of 94	173 grandf of 166	208 $\frac{1}{2}$ si of 133
72 br of 87, 88	174 d of 161, 180	209 so of 213
74 so of 93	174 si of 168	211 d of 151
78 f of 85	175 d of 181	213 m of 209
85 d of 78, 138	176 si of 178	213 si of 155

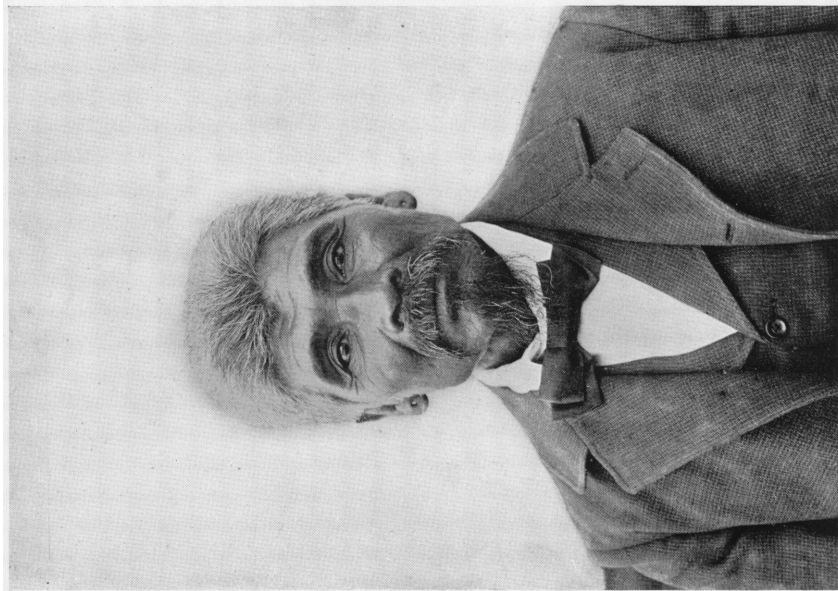
NUMBER OF CHILDREN OF WOMEN.

No.	Age.	Living.		Dead.		No.	Age.	Living.		Dead.	
		Sons.	Daughters.	Sons.	Daughters.			Sons.	Daughters.	Sons.	Daughters.
24	50	2	—	—	2	138	38	—	2	4	—
25	30	—	—	—	—	139	40	—	—	—	—
26	30	3	2	—	—	140	40	—	—	2	2
27	35-40	1	—	—	—	141	40	—	1	1	—
28	60	—	1	5	3	142	40	—	—	—	—
47	20	2	—	—	—	143	45	—	—	2	2
49	40	—	—	—	1	144	50	—	—	2	2
59	25-30	1	3	—	—	145	55	—	1	1	2
60	50	—	—	—	3	146	60	—	—	1	1
64	25	—	—	1	—	147	70	—	—	—	2
66	35	2	—	—	—	148	32	—	—	1	3
67	45	—	—	—	3	149	40	1	2	—	—
68	45-50	—	2	—	—	151	25	2	1	—	—
88	16	—	1	—	—						
91	35	—	1	3	3	164	30	1	1	—	—
93	45	1	—	3	1	165	40	3	2	—	—
94	45	1	2	5	—	178	20	—	—	—	—
95	50	—	1	3	3	179	23	—	1	—	—
96	75	—	4	2	2	180	23	1	3	—	—
99	38	3	1	2	3	181	25	—	3	1	2
130	17	1	—	—	—	182	27	5	—	—	—
131	18	—	2	1	—	183	33	2	—	1	1
132	18	1	—	—	—	196	20	1	2	1	1
133	19	2	—	—	—	197	25	—	4	—	—
134	25	—	—	—	—	198	30	—	1	1	—
135	25	—	2	—	2	207	18	1	—	—	—
136	30	1	—	—	2	208	24	3	1	—	—
137	37	1	—	5	1	213	29	2	2	—	—



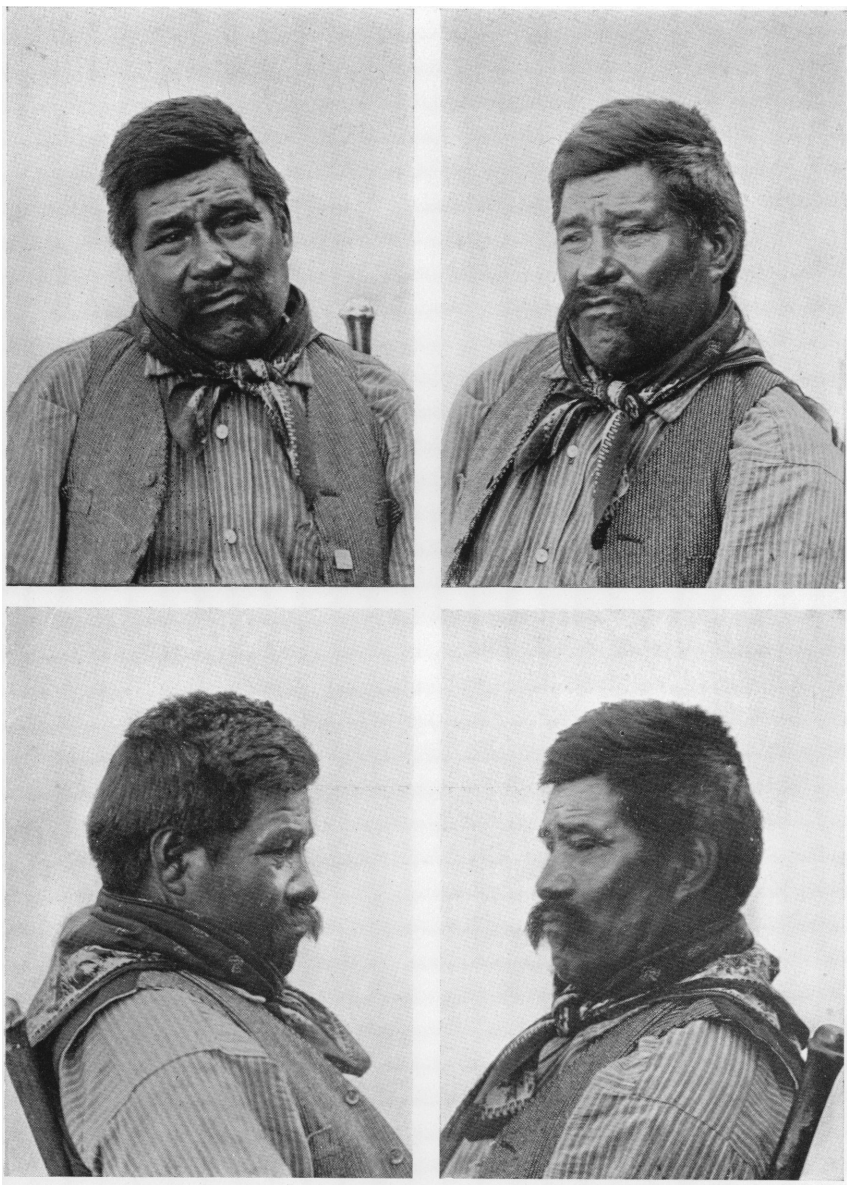
BILL BROOKS.

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DAN WRIGHT.

MAIDU MAN OF FOOT-HILL REGION. AGE 55-60. (No. 17, p. 360.)



WALTER UPTOGRATH.

MAIDU MAN OF FOOT-HILL REGION. AGE 45. (No. 15, p. 360.)



LAWSON ANDERSON.

MAIDU MAN OF FOOT-HILL REGION. AGE 40. (No. II, p. 359.)



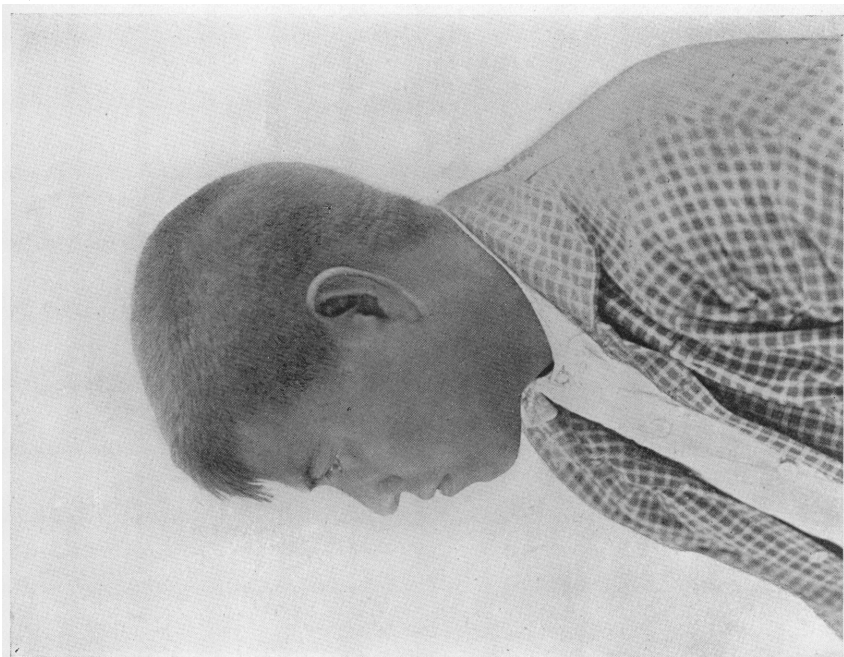
MOSY HIGGINS.

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JOHNNY BOB.

MAIDU MAN OF MOUNTAINS. AGE 20. (No. 54, p. 363.)



JOHNNY PAI YUTE.
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FRANK LOUHEAD,
SOUTHEASTERN MAIDU MAN.



HENRY CLAY.
MAIDU MAN OF FOOT-HILL REGION. AGE 40-42.
(No. 12, p. 359.)



ROUND-MOUNTAIN JACK.
YANA MAN.

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