

Rainfall Records

August 1918 - to -

LEVEL BOOK

373

66

W99

KEUFFEL & ESSER CO.

DRAWING MATERIALS

AND

SURVEYING INSTRUMENTS.

NEW YORK.

CHICAGO. ST. LOUIS. SAN FRANCISCO. MONTREAL.

Tables for Excavations and Embankments.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE SIDE SLOPES 1 TO 1.
FOR SINGLE TRENCH EXCAVATION.

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| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
|----|------|------|------|------|------|------|------|------|------|------|----|
| 0 | 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 0 |
| 1 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 1 |
| 2 | 11.0 | 11.1 | 11.2 | 11.3 | 11.4 | 11.5 | 11.6 | 11.7 | 11.8 | 11.9 | 2 |
| 3 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 12.6 | 12.7 | 12.8 | 12.9 | 3 |
| 4 | 13.0 | 13.1 | 13.2 | 13.3 | 13.4 | 13.5 | 13.6 | 13.7 | 13.8 | 13.9 | 4 |
| 5 | 14.0 | 14.1 | 14.2 | 14.3 | 14.4 | 14.5 | 14.6 | 14.7 | 14.8 | 14.9 | 5 |
| 6 | 15.0 | 15.1 | 15.2 | 15.3 | 15.4 | 15.5 | 15.6 | 15.7 | 15.8 | 15.9 | 6 |
| 7 | 16.0 | 16.1 | 16.2 | 16.3 | 16.4 | 16.5 | 16.6 | 16.7 | 16.8 | 16.9 | 7 |
| 8 | 17.0 | 17.1 | 17.2 | 17.3 | 17.4 | 17.5 | 17.6 | 17.7 | 17.8 | 17.9 | 8 |
| 9 | 18.0 | 18.1 | 18.2 | 18.3 | 18.4 | 18.5 | 18.6 | 18.7 | 18.8 | 18.9 | 9 |
| 10 | 19.0 | 19.1 | 19.2 | 19.3 | 19.4 | 19.5 | 19.6 | 19.7 | 19.8 | 19.9 | 10 |
| 11 | 20.0 | 20.1 | 20.2 | 20.3 | 20.4 | 20.5 | 20.6 | 20.7 | 20.8 | 20.9 | 11 |
| 12 | 21.0 | 21.1 | 21.2 | 21.3 | 21.4 | 21.5 | 21.6 | 21.7 | 21.8 | 21.9 | 12 |
| 13 | 22.0 | 22.1 | 22.2 | 22.3 | 22.4 | 22.5 | 22.6 | 22.7 | 22.8 | 22.9 | 13 |
| 14 | 23.0 | 23.1 | 23.2 | 23.3 | 23.4 | 23.5 | 23.6 | 23.7 | 23.8 | 23.9 | 14 |
| 15 | 24.0 | 24.1 | 24.2 | 24.3 | 24.4 | 24.5 | 24.6 | 24.7 | 24.8 | 24.9 | 15 |
| 16 | 25.0 | 25.1 | 25.2 | 25.3 | 25.4 | 25.5 | 25.6 | 25.7 | 25.8 | 25.9 | 16 |
| 17 | 26.0 | 26.1 | 26.2 | 26.3 | 26.4 | 26.5 | 26.6 | 26.7 | 26.8 | 26.9 | 17 |
| 18 | 27.0 | 27.1 | 27.2 | 27.3 | 27.4 | 27.5 | 27.6 | 27.7 | 27.8 | 27.9 | 18 |
| 19 | 28.0 | 28.1 | 28.2 | 28.3 | 28.4 | 28.5 | 28.6 | 28.7 | 28.8 | 28.9 | 19 |
| 20 | 29.0 | 29.1 | 29.2 | 29.3 | 29.4 | 29.5 | 29.6 | 29.7 | 29.8 | 29.9 | 20 |
| 21 | 30.0 | 30.1 | 30.2 | 30.3 | 30.4 | 30.5 | 30.6 | 30.7 | 30.8 | 30.9 | 21 |
| 22 | 31.0 | 31.1 | 31.2 | 31.3 | 31.4 | 31.5 | 31.6 | 31.7 | 31.8 | 31.9 | 22 |
| 23 | 32.0 | 32.1 | 32.2 | 32.3 | 32.4 | 32.5 | 32.6 | 32.7 | 32.8 | 32.9 | 23 |
| 24 | 33.0 | 33.1 | 33.2 | 33.3 | 33.4 | 33.5 | 33.6 | 33.7 | 33.8 | 33.9 | 24 |
| 25 | 34.0 | 34.1 | 34.2 | 34.3 | 34.4 | 34.5 | 34.6 | 34.7 | 34.8 | 34.9 | 25 |
| 26 | 35.0 | 35.1 | 35.2 | 35.3 | 35.4 | 35.5 | 35.6 | 35.7 | 35.8 | 35.9 | 26 |
| 27 | 36.0 | 36.1 | 36.2 | 36.3 | 36.4 | 36.5 | 36.6 | 36.7 | 36.8 | 36.9 | 27 |
| 28 | 37.0 | 37.1 | 37.2 | 37.3 | 37.4 | 37.5 | 37.6 | 37.7 | 37.8 | 37.9 | 28 |
| 29 | 38.0 | 38.1 | 38.2 | 38.3 | 38.4 | 38.5 | 38.6 | 38.7 | 38.8 | 38.9 | 29 |
| 30 | 39.0 | 39.1 | 39.2 | 39.3 | 39.4 | 39.5 | 39.6 | 39.7 | 39.8 | 39.9 | 30 |
| 31 | 40.0 | 40.1 | 40.2 | 40.3 | 40.4 | 40.5 | 40.6 | 40.7 | 40.8 | 40.9 | 31 |
| 32 | 41.0 | 41.1 | 41.2 | 41.3 | 41.4 | 41.5 | 41.6 | 41.7 | 41.8 | 41.9 | 32 |
| 33 | 42.0 | 42.1 | 42.2 | 42.3 | 42.4 | 42.5 | 42.6 | 42.7 | 42.8 | 42.9 | 33 |
| 34 | 43.0 | 43.1 | 43.2 | 43.3 | 43.4 | 43.5 | 43.6 | 43.7 | 43.8 | 43.9 | 34 |
| 35 | 44.0 | 44.1 | 44.2 | 44.3 | 44.4 | 44.5 | 44.6 | 44.7 | 44.8 | 44.9 | 35 |
| 36 | 45.0 | 45.1 | 45.2 | 45.3 | 45.4 | 45.5 | 45.6 | 45.7 | 45.8 | 45.9 | 36 |

Calculated by Julien A. Hall, M. Am. Soc. C. E.

Aug. 1918 to May 1920

1918

Barrett P.O.
Smiths

| August | Morena | Barrett | Lyon Valley | Cottonwood | Lyon Peak | Lower Olay shower. | Harvey Ranch | Tecate | Chollas | Campo store | Dunne Bonita |
|--------|-------------------------|---------|-------------|------------|-----------|---|-----------------|--------|---------|----------------|-----------------|
| 1 | 1.62 | 0.06 | | | | 0.05 | 0.04 | 0.07 | 0.02 | | 1 |
| 2 | - | | | | | | | | | | 2 |
| 3 | 0-03 | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | 4 |
| 5 | | | | | | | | | | | 5 |
| 6 | | | | | | | | | | | 6 |
| 7 | | | | | | | | | | | 7 |
| 8 | 0.05 | | | | | | | | | | 8 |
| 9 | 0.01 | Trace | | | | Heavy Fog Trace weeping Fog 0.03 | 0.03 | | Trace. | | 9 |
| 10 | | | | | | | | | 0.07 | | 10 |
| 11 | | | | | | mist 0.01 | | | ---- | | 11 |
| 12 | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | 13 |
| 14 | | | | | | | Trace | | | | 14 |
| 15 | | | | | | ---- | Trace | | 0.04 | | 15 |
| 16 | 0.01 | | | | | Fog. Trace | 0.07 | 0.02 | 0.03 | 0.05 0.06 | 16 |
| 17 | | | | | | | | | | | 17 |
| 18 | | | | | | | | | | | 18 |
| 19 | | | | | | | | | | | 19 |
| 20 | | | | | | | | | | | 20 |
| 21 | | | | | | | | | | | 21 |
| 22 | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | 23 |
| 24 | | | | | | | | | | | 24 |
| 25 | | | | | | | | | | | 25 |
| 26 | | | | | | | | | | | 26 |
| 27 | | tr | | | | local shower 0.01 | 0.10 | | 0.01 | | 27 |
| 28 | | tr | | | | | | | | | 28 |
| 29 | 0.16 | | | | | | | 0.22 | | | 29 |
| 30 | Trace | | | | | | | | | | 30 |
| 31 | 0.11 1.99 | 0.06 | | | | 0.10 | | | 0.17 | | 31 |

| 1918 | Buckman Springs | Descanso | Dehesa | La Pesa | Hook's Ranch | La Posta | Tauterback | Kitchen Valley | Dulzura Summit | Hauser Creek | Laguna Ranger Station |
|------|-----------------|----------|--------|---------|--------------|--------------|------------|----------------|----------------|--------------|-----------------------|
| 1 | | | | | | | | | 0.06 | 0.00 | |
| 2 | | | | | | 0.18 | 0.01 | | trace | 0.02 | |
| 3 | | | | | | | | | | | |
| 4 | | 0.04 | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | 1.25 | 1.97 | | | | | |
| 8 | | 0.06 | | | 0.50 | 1.02 | | | | 0.02 | |
| 9 | | | | | | | | | | 0.10 | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | 0.02 | trace | |
| 16 | | | | | 0.05 | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | 0.08 | | |
| 27 | | | | | | | 0.21 | | | trace | |
| 28 | | | | | 0.40 | | | | | " | |
| 29 | | 0.05 | | | | | | | | 0.02 | |
| 30 | | 0.05 | | | 0.15 | 0.7 | | | | trace | |
| 31 | | | | | | | | | | trace | |
| | | 1.20 | | | | | | | | | |
| | | | | | | ✓ Total 0.22 | | | 0.16 | ✓ Tot. 0.56 | |

1918
August

Casbere
Ranch

Harper
Ranch

Upper
Olay

Laguna
Ranch
House

Jesse
Morris

Telegraph
Canyon

Rattlesnake
Valley

0.03

0.03

0.70

Trace

0.05

0.69

0.10

0.01

Trace

0.01

0.05

31

| September 1918 | Morrison | Barrett | Ligon Valley | Smiths Cottonwood | Ligon Peak | Tlower O'Ray | Honney Ranch | Tecate | Chollas | Campo Store | Danne Bonita |
|-------------------|------------------|------------------|--------------|----------------------|-----------------|-------------------------------|------------------|--------|---------|-----------------|-----------------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | trace | | | | trace (fog) | | | | 0.01 | 0.03 |
| 15 | | | | | | | | | | | 0.05 |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | trace | 0.01 |
| 19 | | | | | | Trace ^{dense} (fog) | | | | 0.03 | 0.01 |
| 20 | | | | | | " " | Trace | | | 0.02 | |
| 21 | Trace | | | | | " " | | | | Trace. | |
| 22 | " | | | | | | Trace | | | | |
| 23 | Trace | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 26 | | Trace | | | | Trace ^{morning} fog. | | | | Trace | |
| 27 | Trace | Trace | | | | | Trace | | | | 0.01 |
| 28 | " | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| | Trace | Trace | | | | | | | | 0.06 | |
| | | | | | None | | Trace | | | | |

no Rainfall

September
1918

Jamul
Ranch

Jamul
P.O.

Wimeta
Valley

Skye
Valley

Potterro

Gingsby
Ranch

Dalzurz
P.O.

Mamou
Valley

"Willows"
Alpine

Campbell
Ranch

Japatal

1

2

3

4

5

6

7

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9

10

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16

17

18

19

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21

22

23

24

25

26

27

28

29

30

none

none

none

Trace

Trace

"

"

Absent from
Ranch

Trace

No. Rain

Trace

0.01

Trace

Trace

Trace

Trace

"

Trace

0.00

0.00

Trace

0.00

0.00

0.01

September
1918

Buckman
Springs

Descanso

Dehesa

La Presa

Modicajuar

Hook's
Ranch

La Posta

Lauter-
bach

Kitchen
Valley

Dulzura
Summit

Hawson
Creek

Laguna
Range
Station

1
2
3
4
5
6
7
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11
12
13
14
15
16
17
18
19
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21
22
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29
30

no rain fall

now

Trace

Trace

0.39 Trace

Trace
Trace

Trace

Trace

Trace

Trace Trace

Trace

0.00

0.00

Trace

Tr.

Tr.

September
1918

Caslere
Ranch

Harper
Ranch

Upper
Otay

Laguna
Ranch
House

Jesse
Morris

Telegraph
Canyon

Harper's
Ranch
Rattlestake
Valley

1

2

3

4

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17

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19

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21

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23

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27

28

29

30

Trace.

0.01

Trace

0.14

0.01

Trace

0.07

Trace

October
1918

Barrett P.O.

| | Moreno | Barrett | Lyon's Valley | Smith's Cottonwood | Lyon Peak | Tower Otay | Harvey Ranch | Tecate | Chollas | Campo Stone | Dunne Bonita |
|----|--------|--------------------|---------------|--------------------|-----------|---------------------------|--------------|--------|---------------|-------------|--------------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | 0.01 | 0.02 | | | | 0.02 Lug Sprinkle | 0.01 | 0.09 | 0.03 | | 0.06 |
| 4 | 0.11 | 0.09 | | | | do. 0.12 do. | 0.14 | | 0.24 | | 0.19 |
| 5 | 1.33 | 0.92 | | Trace | | PM + night Rain 0.58 | 1.32 | 1.04 | 0.12 | | 0.24 |
| 6 | | | | 0.96 | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | 0.02 | 0.08 | | | | night Rain 0.03 | 0.04 | 0.09 | 0.02 | | 0.01 |
| 9 | 0.02 | Trace | | | | do. 0.14 do. | 0.13 | | 0.10 | | 0.03 |
| 10 | | | | | | Trace, Drip Early A.M. | | | | | Trace |
| 11 | | | | | | Trace fog | | | | | |
| 12 | | | | | | Trace " | | | | | |
| 13 | | | | | | " Day Rain 0.02 | | | Trace 0.01 | | |
| 14 | Trace | Trace | | Trace | | 0.02 | Trace | | Trace | | Trace |
| 15 | | | | 0.05 | | | 0.03 | | | | |
| 16 | | | | | | | Trace | | | | |
| 17 | | | | | | | | | | | |
| 18 | | Trace | | Trace | | | | | | | |
| 19 | 0.03 | " | | 0.07 | | sprinkle Eve. | Trace | 0.25 | | | |
| 20 | 0.02 | Spot shower - P.M. | | Trace | | Trace do. | | | | | |
| 21 | | 0.10 | | 0.20 | | 0.01 do. | Trace | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| 31 | | | | | | | | | | | |

1.54

1.21

1.28

0.92

1.67

1.47

0.52
0.54

0.53

| October 1918 | Jamul Ranch | Jamul P.O. | Winetka Valley | Silve Valley | Potrero | Grigsby Ranch | Dalzurra P.O. | Marron Valley | "Willows" Alpine | Campbell Ranch | Japatul |
|-----------------|----------------|---------------|-------------------|-----------------|---------|------------------|------------------|------------------|---------------------|-------------------|---------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | 0.20 | | 0.03 | | 0.23 | | | | 0.05 |
| 4 | | | 1.18 | | 0.10 | | 1.25 | 0.04 | | | 0.10 |
| 5 | 1.53 | 1.53 | | 1.66 | 1.02 | | 0 | 0.13 | | | 0.84 |
| 6 | | | | 0.01 | 0.01 | | | 1.70 | | | Trace |
| 7 | | | 0.10 | | | | 0.08 | | | | Trace |
| 8 | | | 0.15 | | | | 0.17 | 0.05 | | | 0.06 |
| 9 | 0.27 | 0.27 | | | | | | 0.08 | | | 0.12 |
| 10 | | | | | | | | | | | Trace |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | 0.15 | | | | Trace |
| 15 | | | | 0.2 | 0.02 | | | 0.10 | | | 0.05 |
| 16 | | | | | | | | | | | Trace |
| 17 | | | | | | | 0.01 | | | | |
| 18 | | | | | | | | | | | Trace |
| 19 | | | | | 0.20 | Trace | | 0.05 | | | 0.12 |
| 20 | | | | | 0.25 | | 0.41 | | | | Trace |
| 21 | | | 1.28 | | 0.03 | | | Trace | | | 0.11 |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| | 1.80 | 1.80 | 2.91 | | | | 2.30 | 2.15 | | | 1.45 |
| | | | | 1.4 | 1.42 | | | | | | |

about 1st to 15th
0.90
Ranking

October 1918

| Buckman Springs | Descanso | Dehesa | La Presa | La Posta | Hook's Ranch | Lauterbach's | Kitchen Valley | Dulzura Summit | Hansen Creek | Lizguna Forester Station |
|-----------------|----------|--------|----------|----------|--------------|--------------|----------------|----------------|--------------|--------------------------|
|-----------------|----------|--------|----------|----------|--------------|--------------|----------------|----------------|--------------|--------------------------|

| | | | | | | | | | | |
|----|--|-------|--|--|----------------|------|------|---------------------|-------|--|
| 1 | | | | | | | | 0.06 | | |
| 2 | | | | | | | | | | |
| 3 | | 0.20 | | | 0.11 | 0.03 | | 0.09 | 0.02 | |
| 4 | | 0.78 | | | 1.36 | 0.06 | | 0.71 | 0.03 | |
| 5 | | | | | | 1.04 | | | 1.03 | |
| 6 | | | | | | 0.01 | | | | |
| 7 | | | | | | | | 0.03 | | |
| 8 | | Trace | | | | 0.02 | | 0.05 | 0.02 | |
| 9 | | Trace | | | | 0.01 | | Trace | Trace | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | See if 0.03 | 0.30 | 0.03 | 0.15 | Trace | |
| 16 | | | | | | | | Trace | " | |
| 17 | | | | | | | | | | |
| 18 | | 0.35 | | | See if 0.02 | 0.20 | | 0.03 | | |
| 19 | | | | | | | 0.04 | | 0.03 | |
| 20 | | 0.25 | | | | | | Spot shower 1.00 | Trace | |
| 21 | | | | | 0.10 | | 0.02 | | " | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |

1.30

1 Reading
1st Torist
% absent

{0.10}

1.58

1.40

2.07
2

1.26

2.12

1.13

October
1918

Casebere
Ranch

Harper
Ranch

Upper
OTay

Juana
Ranch No.

Jesse
Morris

Telegraph
Canyon

Rattlesnake
Canyon

1

2

3

4

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27

28

29

30

0.03 ✓

0.09 ✓

0.46 ✓

0.03 ✓

0.08 ✓

tr. ✓

Trace ✓

0.04 ✓

Trace

0.01

0.73 ✓

0.09

0.15

0.17

0.02

0.17

0.02

0.26

0.67

0.01

Trace

Trace

Trace

Trace

0.07

Trace

1.03

| November 1918 | MORENA | HAUSER | BARRETT | INTERBACK | DULZURA SUMMIT | DULZURA R.O. | HARVEY Ranch | UPPER OTAJ | LOWER OTAJ | TELEGRAPH CANYON | COLLAS. |
|------------------|--------|--------|---------|-----------|-------------------|-----------------|-----------------|------------|---------------|---------------------|---------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | tr. | 0.20 | | | | | tr. | | tr. | | Trace |
| 5 | 0.30 | 0.25 | 0.55 | 0.25 | 0.32 | 0.33 | 0.08 | 0.18 | 0.01 | 0.03 | 0.75 |
| 6 | 0.32 | | 0.05 | 0.09 | 0.18 | 0.06 | 0.48 | 0.10 | 0.09 | 0.20 | 0.45 |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | tr. | | | | tr. | Trace | | | |
| 13 | Trace | Trace | Tr. | 0.01 | 0.02 | 0.73 | tr. | Trace | Trace | | Trace |
| 14 | 0.55 | 0.65 | 0.59 | 0.62 | 0.58 | | 0.50 | 0.40 | 0.52 | 0.67 | 0.61 |
| 15 | Trace | Trace | Trace | 0.02 | 0.02 | 0.18 | Trace | Trace | Trace | | Trace |
| 16 | 0.05 | | | 0.04 | 0.20 | | | 0.11 | 0.02 | | 0.06 |
| 17 | | | | | | | | | | | |
| 18 | tr. | | tr. | | | 0.18 | tr. | tr. | tr. | | 0.01 |
| 19 | 0.23 | 0.25 | 0.28 | 0.18 | 0.27 | | 0.50 | 0.35 | 0.32 | 0.12 | 0.12 |
| 20 | tr. | | | | | | | tr. | | | 0.08 |
| 21 | | | | | | | | tr. | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | 0.60 | 0.55 | 0.32 | 0.40 | 0.35 | 0.22 | 0.49 | 0.40 | 0.30 | 0.52 | 0.37 |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | 0.10 | 0.10 | 0.03 | 0.06 | 0.06 | 0.03 | 0.02 | tr. | 0.01 | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| | 2.15 | 2.00 | 1.82 | 1.67 | 2.00 | 1.73 | 2.07 | 1.54 | 1.27 | | 1.87 |

| November 1878 | Iyon Valley | Iyon Peak | Barrett P.O Smiths Cottonwood | Tecate | Campo store | Putrero | Gripsby Ranch | Winetka Valley | SKye Valley | Marrón Valley | Japatul |
|------------------|----------------|--------------|--|--------|----------------|---------|------------------|-------------------|----------------|------------------|---------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | { 0.32 | | | | | 0.29 | | | Trace |
| 5 | | | { 0.32 | 0.13 | | 0.45 | | 0.47 | | 0.06 | 0.53 |
| 6 | | | | 0.15 | | 0.17 | 0.36 | | | 0.14 | 0.24 |
| 7 | | | | | | | 0.15 | | | | 0.01 |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | Trace | | | 0.02 | Trace | 0.07 | | 0.09 | 0.07 |
| 14 | | | 0.78 | 0.62 | | 0.85 | 0.64 | 0.75 | | 0.02 | 0.85 |
| 15 | | | Trace | | | 0.02 | | | | 0.06 | 0.03 |
| 16 | | | 0.26 | 0.12 | | 0.06 | 0.06 | | | | 0.11 |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | 0.26 | | | 0.14 |
| 19 | | | | 0.26 | | 0.28 | 0.10 | 0.40 | | 0.12 | 0.15 |
| 20 | | | | | | | 0.15 | | | | Trace |
| 21 | | | 0.28 | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | 0.40 | 0.70 | | 0.43 | 0.69 | 0.36 | .45 | 0.62 | 0.51 |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | 0.08 | 0.42 | | 0.16 | 0.20 | | | 0.15 | 0.03 |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| | | | 2.12 | 240 | | 2.44 | 2.35 | 2.30 | 1.26 | 2.62 | ✓ |

Modicajuz?

| Station? | Ranch: Jämtal | Tamul P.O. | "Willows" ALPINE | Campbell Ranch | HOOKS Ranch | Casebere Ranch | Harper Ranch | Jesse Morris | Laguna Ranch Ho | LAGUNA Forester station | Buckwall Springs |
|----------|---------------|------------|------------------|----------------|-------------|----------------|--------------|--------------|-----------------|-------------------------|------------------|
|----------|---------------|------------|------------------|----------------|-------------|----------------|--------------|--------------|-----------------|-------------------------|------------------|

November
1918

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2.05

| November | Descanso | Dehesa | La Presa | La Posta | Dunne Bonita | Kitchen's | Rattasuale Canyon |
|----------|-------------|--------|----------|------------|-----------------|-----------|----------------------|
| 1918 | | | | | | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | 0.16 | | | Trace |
| 5 | 0.20 | | | 0.10 | 0.08 | | 0.52 |
| 6 | 0.79 | | | | 0.20 | | 0.02 |
| 7 | | | | | | | 0.09 |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | 0.05 | | | Trace | | | |
| 13 | 0.95 | | | 0.54 | | | 0.06 |
| 14 | 0.05 | | | Trace | 0.60 | | 0.65 |
| 15 | 0.16 | | | 0.02 | Trace | | 0.04 |
| 16 | | | | | 0.06 | | 0.05 |
| 17 | | | | | | | |
| 18 | 0.38 | | | 0.13 | 0.07 | | Trace |
| 19 | | | | | 0.48 | | 0.20 |
| 20 | | | | | | | Trace |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | 0.89 | | | 0.64 | | | |
| 24 | | | | 0.03 | 0.42 | | 0.80 |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | 0.08 | | | | | | 0.30 |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| | <u>3.55</u> | | | <u>102</u> | <u>191</u> | | <u>273</u> |

| December 1918 | MORENA | Hauser | Barrett Watts | Lauter- bach | Dulzura P.O. | Dulzura Summit | Harvey Ranch | Upper otay | Lower otay | Telegraph Canyon | Chollas | Dunnes Bonitz |
|------------------|--------------|-------------|------------------|-----------------|-----------------|-------------------|-----------------|---------------|---------------------------------|---------------------|---------|------------------|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 1.09 | 0.85 | 0.86 | 0.96 | 0.76 | 0.95 | 0.54 | 0.37 | Night Rain 0.37 | 0.33 | 0.29 | 0.22 |
| 8 | 0.40 | 0.45 | 0.34 | 0.35 | 0.18 | 0.30 | 0.19 | 0.22 | 0.17 | 0.22 | 0.58 | 0.38 |
| 9 | 0.10 | 0.06 | 0.12 | 0.08 | Trace | Trace | 0.07 | 0.10 | 0.07 | 0.21 | 0.10 | 0.22 |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 0.22 | 0.10 | 0.25 | 0.20 | 0.31 | 0.31 | 0.07 | 0.14 | 0.12 | 0.09 | | 0.03 |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | 0.02 | 0.12 | Trace | Trace | Trace | 0.03 | Trace | Night Shower 0.02 | | | |
| 17 | | | | | 0.88 | | | | | | | |
| 18 | 0.09 | 0.30 | 0.50 | 0.46 | 0.77 | 0.77 | 0.48 | 0.37 | Night Rain 0.37 | 0.46 | 0.48 | 0.54 |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 0.93 | | | | | | | |
| 21 | 1.00 | 1.12 | 0.98 | 1.08 | 0.30 | 0.83 | 0.52 | 0.43 | Heavy Dew Night Rain 0.43 | 0.46 | 0.35 | 0.28 |
| 22 | 0.07 | 0.03 | 0.12 | 0.12 | 0.15 | 0.15 | 0.38 | 0.12 | 0.30 | 0.23 | 0.11 | 0.13 |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
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| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | 0.10 | | | | | | | |
| 30 | 0.20 Snow | 0.20 | 0.11 | 0.15 | 0.03 | 0.15 | 0.12 | 0.05 | 0.03 | 0.09 | 0.05 | 0.05 |
| 31 | | Trace | 0.07 | 0.04 | Trace | 0.06 | 0.05 | 0.10 | 0.04 | 0.03 | 0.08 | 0.10 |
| | | | | | | | | | | | | |
| | <u>3.17</u> | <u>3.13</u> | <u>3.47</u> | <u>3.44</u> | <u>3.08</u> | <u>3.52</u> | <u>2.45</u> | <u>1.90</u> | <u>1.92</u> | | | |
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | | | | | | | | | | | | |

204 1.95

| December 1918 | Buckman Springs | Campbell Ranch | Campo | Casebere Ranch | Descanso | Dehesa | Grisby Ranch | Harpers Ranch | Modica Juan Hook's Ranch | Kitchen's Ranch | Jamul Ranch P.O. |
|------------------|--------------------|-------------------|-------|-------------------|----------|--------|-----------------|------------------|--------------------------------|--------------------|---------------------|
| 1 | | | | | | | | | | | |
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| 3 | | | | | | | | | | | |
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| 5 | | | | | | | | | | | |
| 6 | | | | | 1.05 | | 0.84 | | | | |
| 7 | | | | | 0.54 | | 0.21 | | 0.95 | | 0.56 |
| 8 | | | | | 0.11 | | 0.05 | | 0.50 | | 0.28 |
| 9 | | | | | | | | | 0.15 | | 0.17 |
| 10 | | | | | | | | | | | |
| 11 | | | | | 0.29 | | | | | | |
| 12 | | | | | | | 0.12 | | 0.20 | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | 0.21 | | | | 0.62 |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | 1.55 | | 1.05 | | 1.10 | | 0.55 |
| 22 | | | | | | | 0.21 | | 0.15 | | 0.15 |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
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| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | 0.37 | | 0.19 | | 0.30 | | 0.17 |
| 31 | | | | | | | | | | | 0.10 |
| | | | | | 3.91 | | 2.88 | | 3.35 | | 2.60 |

December 1918

Japatul

La Posta

La Presa

Laguna Ranch Forester Station

Lyon Valley Peak

Marron's

Jesse Morris

Potrero

Rattlesnake Canyon

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I December
1918

Teeate

SKYE
Valley

Barnett P.O.

Smith's
Cottonwood

"Willows"
Alpine

Winetka
Valley

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|----|--|------------|----|------|
| 1 | | | | |
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| 5 | | | | 0.29 |
| 6 | | | | 0.11 |
| 7 | | | 93 | 0.98 |
| 8 | | .95 | 43 | 0.23 |
| 9 | | .38 | | 0.10 |
| 10 | | | | |
| 11 | | | | |
| 12 | | .21 | 27 | 0.31 |
| 13 | | | | 0.27 |
| 14 | | | | 0.25 |
| 15 | | | | |
| 16 | | .14 | | 0.03 |
| 17 | | | | |
| 18 | | .22 | 81 | 1.20 |
| 19 | | | 17 | 0.40 |
| 20 | | | 07 | |
| 21 | | 1.04 | | 0.77 |
| 22 | | | | 0.18 |
| 23 | | | | |
| 24 | | | | 0.16 |
| 25 | | | | |
| 26 | | | | |
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| 30 | | .21 | | 0.15 |
| 31 | | | | 0.11 |
| | | <hr/> 3.15 | | |

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1919

January

MORENA

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BARRETT

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Dalzu
P.O.

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Summit

HARVEY

OTAY
Upper Lower

Telegraph
Canyon

Chollas Bonita

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1919
January

Buckman
Springs

Campbell
Ranch

CAMPO

Casebere
Ranch

Dehesa

Descanso

Gripsby
Ranch

Harper's
Ranch

Hook's
do.

Kitchen
Valley

JAMUL
Ranch P.O.

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1919
January

JAPATUL

Ia Posta

Ia Presa

Lagunas
Forester's Ranch

Lyon's
Valley Peak

MARRON'S

Jesse
Morris

Potrero

Rattlesnake
Canyon

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Trace
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0.02

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Trace
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1919

January

TECATE

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Smiths
Cottonwood"Willows"
AlpineWinetka
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21

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0.02

February
1919

| | Morena | Hausen | Barnett Watts | Barrett P.O Smiths | Dutzura Summit | Dutzura P.O | Harvey Ranch | upper Otay | lower Otay | Lauter- bach, | Teleg. Canyon | Chubb's |
|-------|--------|--------|------------------|--------------------------|-------------------|----------------|--------------------|----------------------|---------------|------------------|------------------|---------|
| 1 | 1.00 | 0.95 | 0.97 | | 0.80 ✓ | .67 | 0.62 | 0.75 ^{9 AM} | 0.48 | 0.96 | 0.43 | 0.36 |
| 2 | 0.54 | 0.65 | 0.69 | | 0.61 ✓ | .33 | 0.68 | 0.55 ^{6 PM} | 0.37 | 0.75 | 0.54 | 0.26 |
| 3 | 0.44 | 0.45 | 0.48 | | 0.34 ✓ | | 0.29 | 0.26 | 0.30 | 0.42 | 0.31 | 0.34 |
| 4 | 0.08 | | 0.06 | | | | | | | 0.21 | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | trace | | | 0.01 |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | .28 | | | | | | |
| 11 | 0.28 | 0.10 | 0.70 | | 0.08 | 1.20 | 0.18 | 0.76 | 0.18 | 0.18 | 0.34 | 0.19 |
| 12 | 1.52 | 1.55 | 1.53 | | 1.30 | | 1.11 ^{ok} | 54 | 0.68 | 1.62 | 0.61 | 0.26 |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | .02 | | | | | | |
| 15 | none | | 0.05 | | .03 | | .05 | 0.06 | 0.05 | | 0.13 | 0.06 |
| 16 | trace | | 0.03 | | | | trace | | | trace | | |
| 17 | | | | | | | | | | | | |
| 18 | 0.38 | 0.50 | 0.54 | | 0.30 | .32 | 0.13 | .15 | 0.15 | 0.60 | 0.09 | 0.08 |
| 19 | | | trace | | 0.09 | | trace | | 0.05 | 0.03 | | |
| 20 | | | | | | | | | | | | |
| 21 | 0.10 | .15 | 0.15 | | 0.09 | | | | | 0.17 | | |
| 22 | | | | | | .07 | | | | | | |
| 23 | 0.09 | 0.10 | 0.18 | | 0.08 | .43 | .06 | 0.09 | 0.05 | 0.10 | 0.00 | 0.24 |
| 24 | 0.41 | 0.35 | 0.43 | | 0.42 | | 0.42 | 0.33 | 0.42 | .42 | 0.39 | 0.22 |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | .12 | | | | | | |
| 27 | .33 | .25 | .39 | | .12 | | .25 | .26 | 0.18 | 0.22 | .22 | .30 |
| 28 | trace | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | |
| | 5.17 | 4.05 | 6.10 | | 4.26 | 3.44 | 3.79 | 3.76 | 2.91 | 5.24 | 3.06 | 2.52 |
| | | | | | | | | | | 5.68 | | |
| | | | | | | | | | | 5.68 | | |

10 AM

7 AM

8 AM

same

February
1919

| | Bonita | Descanso | Dehesa | Grigsby's | Harpers | Modicajuat Hook's | Jamal store | Japatul | LiaPosta | Tyon valley | Marron's |
|----|--------|----------|--------|-----------|---------|----------------------|----------------|---------|----------|----------------|----------|
| 1 | 0.41 | 1.02 | | .94 | | .95 | | .84 | .75 | | .60 |
| 2 | .24 | .43 | | .72 | | .85 | | .95 | .60 | 1st week | .35 |
| 3 | .30 | .45 | | .59 | | .60 | | .45 | | | .33 |
| 4 | | .20 | | .04 | | | | .03 | | 2.15 | Trace |
| 5 | | | | | | | | Trace | | | Trace |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | .01 |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | .125 | | |
| 11 | 0.25 | | | | | .43 | | .42 | 1.61 | 2nd week | .43 |
| 12 | 0.60 | | | 2.40 | | 1.36 | | 1.26 | | 1.85 | 1.26 |
| 13 | | | | | | | | | | | Trace |
| 14 | | | | | | | | | | | Trace |
| 15 | 0.08 | 2.17 | | | | | | .01 | | | |
| 16 | | | | | | | | Trace | | | |
| 17 | | .85 | | | | | | | .50 | 3d week | |
| 18 | 0.07 | .23 | | .72 | | .50 | | .60 | Trace | 0.65 | .23 |
| 19 | .02 | | | .07 | | | | Trace | | | Trace |
| 20 | | | | | | | | | .06 | | |
| 21 | | | | .10 | | | | .06 | | | .04 |
| 22 | | .22 | | | | | | | .06 | | |
| 23 | 0.08 | .48 | | Trace | | .20 | | .10 | .25 | 4th week | .13 |
| 24 | 0.30 | | | .59 | | .35 | | .33 | | 0.45 | .47 |
| 25 | | | | | | | | | | 0.40 | .01 |
| 26 | | | | | | | | | .50 | | |
| 27 | .19 | .62 | | .31 | | .40 | | .34 | .50 | | .49 |
| 28 | | | | | | | | | | | Trace |
| | 2.54 | 6.67 | | 6.48 | | 3.58 | | 3.39 | 4.61 | 5.50 | 4.35 |

Says "Best 9 Can
Do in my old
Tourto Can"

February
1919

Potrero

Rattlesnake
Canyon

Tecate

Slye
Valley

The Willows
Alpine

Winok
Valley

| | | | | |
|----|-------|-------|------|------|
| 1 | 1.16 | .67 | 1.14 | |
| 2 | .88 | .24 | .36 | |
| 3 | .47 | .43 | | |
| 4 | .10 | | | 2.05 |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | .10 | .07 | | .15 |
| 12 | 1.87 | 1.43 | 1.92 | 1.20 |
| 13 | | | | |
| 14 | | | | |
| 15 | | Trace | | |
| 16 | Trace | | | |
| 17 | | | | |
| 18 | .76 | .35 | 1.30 | .62 |
| 19 | .07 | .01 | | |
| 20 | | | | .10 |
| 21 | .10 | .03 | | |
| 22 | | | | |
| 23 | .10 | .06 | .23 | |
| 24 | .45 | .26 | .40 | .42 |
| 25 | | | | |
| 26 | | | | |
| 27 | .28 | .33 | .23 | .17 |
| 28 | | | | |

6.34

3.58

5.58

4.21

March
1919

| | Morena | Hauser | Barnett watts | Barrett P.O. Smith's | Dulzura Summit | Dulzura P.O. | Harvey Ranch | Upper Olay | Lower Olay | Hauser back's Cottonwood | Tel. Canyon | Chollas |
|----|----------------|--------|------------------|----------------------------|-------------------|-----------------|-----------------|---------------|---------------|--------------------------------|----------------|---------|
| 1 | | Trace | | | | | | | | | | Trace |
| 2 | 0.08 | | | | | .07 | | | | | | |
| 3 | 0.18 | .10 | 0.14 | 0.12 | 0.12 | | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.08 |
| 4 | | | | | | | Trace | | Trace | Trace | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 0.03 | 0.60 | 0.07 | | 0.05 | | 0.01 | | 0.01 | .06 | 0.02 | 0.02 |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | .61 | 1.05 | .79 | | .73 | 1.05 .83 | 0.62 | .65 | .50 | .96 | 0.60 | .18 |
| 15 | 5" snow .90 | .95 | 1.08 | | .98 | | 0.81 | .62 | .57 | 1.02 | 0.49 | .48 |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | .03 | | | | | | |
| 19 | .08 | .20 | .10 | | .06 | .53 | .12 | .09 | .14 | .04 | | .01 |
| 20 | .52 | .45 | 0.64 | | .43 | .41 | .39 | 0.27 | .24 | .36 | .32 | .58 |
| 21 | .42 | .25 | .43 | | .45 | .08 | .30 | .31 | .30 | .40 | .33 | .21 |
| 22 | .20 | .15 | .12 | | .08 | .01 | .04 | .03 | .05 | .10 | .07 | .32 |
| 23 | .16 | .10 | .31 | | .06 | | | | Trace | T.14 | | |
| 24 | Trace | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | Trace | | | | | | | |
| 28 | | | | | | | | | | Trace | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| | 3.10 | 3.35 | 3.68 | | 2.96 | | 2.40 | 1.98 | 1.93 | 3.20 | 1.95 | 1.88 |

✓

Trace Fog AM

March
1919

| | Bonita | Descanso | Delosa | Grigsby | Harper | Modica Hoot's | Jamul | Japatul | Tia Posta | Lyon Valley | Marron's |
|----|--------|----------|--------|---------|--------|------------------|-------|---------|-----------|----------------|----------|
| 1 | | | | | .02 | | | Trace | .13 | | Trace |
| 2 | | | | | | | | Trace | .13 | | .08 |
| 3 | 0.18 | .27 | | .11 | .15 | .15 | | .10 | | | |
| 4 | | | | | .02 | | | .05 | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | .10 | | | .10 | | |
| 7 | | .13 | | .05 | .01 | | | .04 | | | .03 |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | 1.20 | | |
| 14 | .43 | .89 | | 1.25 | .81 | 1.00 | | .83 | .91 | | .51 |
| 15 | .37 | | | 1.25 | .65 | 1.05 | | .78 | | | .72 |
| 16 | | | | | | | | Trace | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | .60 | | .04 | .07 | | |
| 19 | | .70 | | | Trace | | | | .46 | | .04 |
| 20 | .56 | .13 | | .51 | .20 | .40 | | .48 | .57 | | .42 |
| 21 | .42 | .43 | | .45 | .24 | .55 | | .37 | .26 | | .40 |
| 22 | .08 | .22 | | .16 | .30 | .16 | | .20 | .04 | | |
| 23 | | | | .04 | .05 | | | .23 | | | |
| 24 | | | | | | | | Trace | | | .02 |
| 25 | | | | | | | | Trace | | | Trace |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | .01 | | | |
| 31 | 2.04 | 2.77 | | | 2.45 | 4.01 | | 3.13 | 3.74 | | 2.22 |

March
1919

Potrero

Tecate

SKYE
valley

"The Willows"
Alpine

Winetka
valley

| | | | | |
|----|------|------|------|------|
| 1 | | | .10 | |
| 2 | | | | |
| 3 | .13 | .10 | | .23 |
| 4 | .01 | | .04 | |
| 5 | | | | |
| 6 | | | | |
| 7 | .09 | | | .20 |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | 1.00 | 1.02 | .90 | .89 |
| 15 | 1.05 | 1.05 | .25 | .92 |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | .04 | | | |
| 20 | .50 | .44 | .10 | .87 |
| 21 | .42 | .33 | .80 | .65 |
| 22 | .14 | .09 | .70 | .14 |
| 23 | .13 | | .60 | .09 |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |
| 31 | 3.51 | 3.03 | 3.49 | 3.99 |

April
1919

Rain

Records

| | Morena | Hauser | Barrett Watts | Barrett P.O. | Dulzura Summit | Dulzura P.O. | Harvey Ranch | Upper Otay | Lower Otay | Lauterbach Cottonwood | Tel Canyon | Chollas |
|----|--------|--------|------------------|-----------------|-------------------|-----------------|-----------------|---------------|---------------------|--------------------------|---------------|---------|
| 1 | | | | | | | | | Heavy Fog Trace. | | | |
| 2 | | | | | | | | | do. | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | Trace | | Trace | | | Trace |
| 8 | 0.35 | 0.25 | .36 | | .14 | .14 | 0.11 | 0.07 | 0.11 | .26 | .18 | 0.01 |
| 9 | 0.49 | 0.15 | .18 | | .25 | .25 | 0.12 | 0.07 | 0.05 | .13 | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | 0.02 | 0.05 | 0.00 | | .06 | .06 | 0.05 | 0.08 | 0.03 | 0.06 | .02 | .03 |
| 27 | 0.82 | 0.65 | 0.90 | | .59 | .59 | 0.68 | 0.55 | 0.32 | 0.54 | .38 | 0.22 |
| 28 | 0.02 | 0.03 | Trace | | .08 | .08 | | 0.03 | Trace | .01 | | |
| 29 | Trace | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | 1.70 | 1.13 | 1.54 | | 1.12 | 1.12 | | .80 | .51 | 1.00 | .58 | .26 |

April
1919

Bonita Descanso Gripsby Harper's Hooks

Jamul
P.O.

Jamul
Ranch

Japatul

Ia Posta

Tyon
Valley

Marron's

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| | Bonita | Descanso | Gripsby | Harper's | Hooks | Jamul P.O. | Jamul Ranch | Japatul | Ia Posta | Tyon Valley | Marron's |
|----|------------|-------------|---------|------------|-------------|---------------|----------------|---------|----------|----------------|----------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | .27 | | | | | | | .17 | .34 | |
| 8 | 0.04 | .38 | .28 | .14 | .50 | | | .29 | | | .09 |
| 9 | | | .12 | Trace | .60 | | | .25 | | | .10 |
| 10 | | | | | | | | | | | |
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| 25 | | | | | | | | | | | |
| 26 | Trace | 1.05 | .02 | Trace | | | | .05 | .26 | .94 | .02 |
| 27 | .34 | | .68 | .50 | .75 | | | .58 | | | .62 |
| 28 | | | .01 | Trace | | | | .03 | | | |
| 29 | | | | | | | | Trace | | | |
| 30 | <u>.38</u> | <u>1.70</u> | | <u>.64</u> | <u>1.85</u> | | | 1.20 | .43 | 1.28 | .83 |

April
1919

Potrero Tecate

Skye
Valley

"The Willows"
Alpine Wianetka

| | | | |
|----|------|------|------|
| 1 | | | |
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| 7 | | | |
| 8 | .33 | .22 | .16 |
| 9 | .09 | .05 | .19 |
| 10 | | | |
| 11 | | | |
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| 24 | | | |
| 25 | | | |
| 26 | .15 | | |
| 27 | .91 | .73 | 1.20 |
| 28 | .02 | .04 | .09 |
| 29 | | | |
| 30 | | | |
| 31 | 1.50 | 1.04 | 1.64 |

1919

May

RAIN

Records.

| Morena | Kauser | Barrett Dam | Barrett P.O. | Dulzura summit P.O. | Harvey | Otay Upper | Lower | Teutobach | Teli Canyon | Chollas |
|--------|--------|----------------|-----------------|---------------------------|--------|---------------|-------|-----------|----------------|---------|
|--------|--------|----------------|-----------------|---------------------------|--------|---------------|-------|-----------|----------------|---------|

| | | | | | | | | | | | | |
|----|-------------|------------|-------------|--|------------|------------|------------|------------|------------|-------------|------------|------------|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | Trace | | 0.02 | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | T | | | | Trace | | | | Trace | | |
| 8 | | | | | | " | | | | | | |
| 9 | | | | | | " | | | | | | |
| 10 | | | | | | | | | | | | |
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| 19 | | | | | | | | | | | | |
| 20 | | | | | | 10 | | | | | | |
| 21 | .24 | .10 | .09 | | .07 | .22 | 0.06 | .06 | .04 | .03 | .02 | .22 |
| 22 | .09 | .02 | T | | .17 | | 0.02 | .01 | .06 | .08 | | |
| 23 | .01 | | | | T | | | | | | | |
| 24 | T | | | | | .02 | | | | | | |
| 25 | | | | | | | .03 | .03 | .04 | | | |
| 26 | | | | | | | .01 | | | | | |
| 27 | | | T | | | | | | | | | .01 |
| 28 | | | | | T | | | | .01 | T | | |
| 29 | | | T | | | | | | | | | |
| 30 | .10 | .03 | | | .21 | | | | .02 | | | |
| 31 | .01 | | | | .05 | | .04 | | | T | | T. |
| | <u>0.45</u> | <u>.15</u> | <u>0.14</u> | | <u>.50</u> | <u>.34</u> | <u>.16</u> | <u>.10</u> | <u>.19</u> | <u>0.11</u> | <u>.02</u> | <u>.23</u> |

1919
May

Bonita Descanso Grigsby Harper Hooks

Jamul
P.O Ranch

Japatul La Posta
Tuyon Valley

Marrons

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1919
VII 24

Potrero

Tecate

Skye
Valley

"The Willows"

Alpine

Winetka

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1919

Rain

June

morena

Hanser

Barrett
Dam

Barrett
P.O.

Dulz.
Summit

Dulz.
P.O.

Records

Harvey

Otay
Upper Lower

Lantabach

Jel.
Canyon

Chollas

No rain

No rain

No rain

No rain

No Rain

No Rain

No rain

No Rain

No rain

No Rain

1919
June
1-8

Rain
Bonita Descanso Trigsby Harper Hook's

Records
Samuel P.O. Ranch Papatal La Posta Lyon Valley Marron's
Trace

None

No Rain

No Rain

No Rain

No Rain

No Rain

1919

June Potrero Tecate Sky Valley The Willows alpine Winetka

No Rain

No rain

None

1919

July

Movena

Hauser

Dam
Barrett

P.O.
Barrett

Dulzura Summit

P.O.

Harvey

otay

Upper

Lower

Attonwood

Tel

Canyon Chollas

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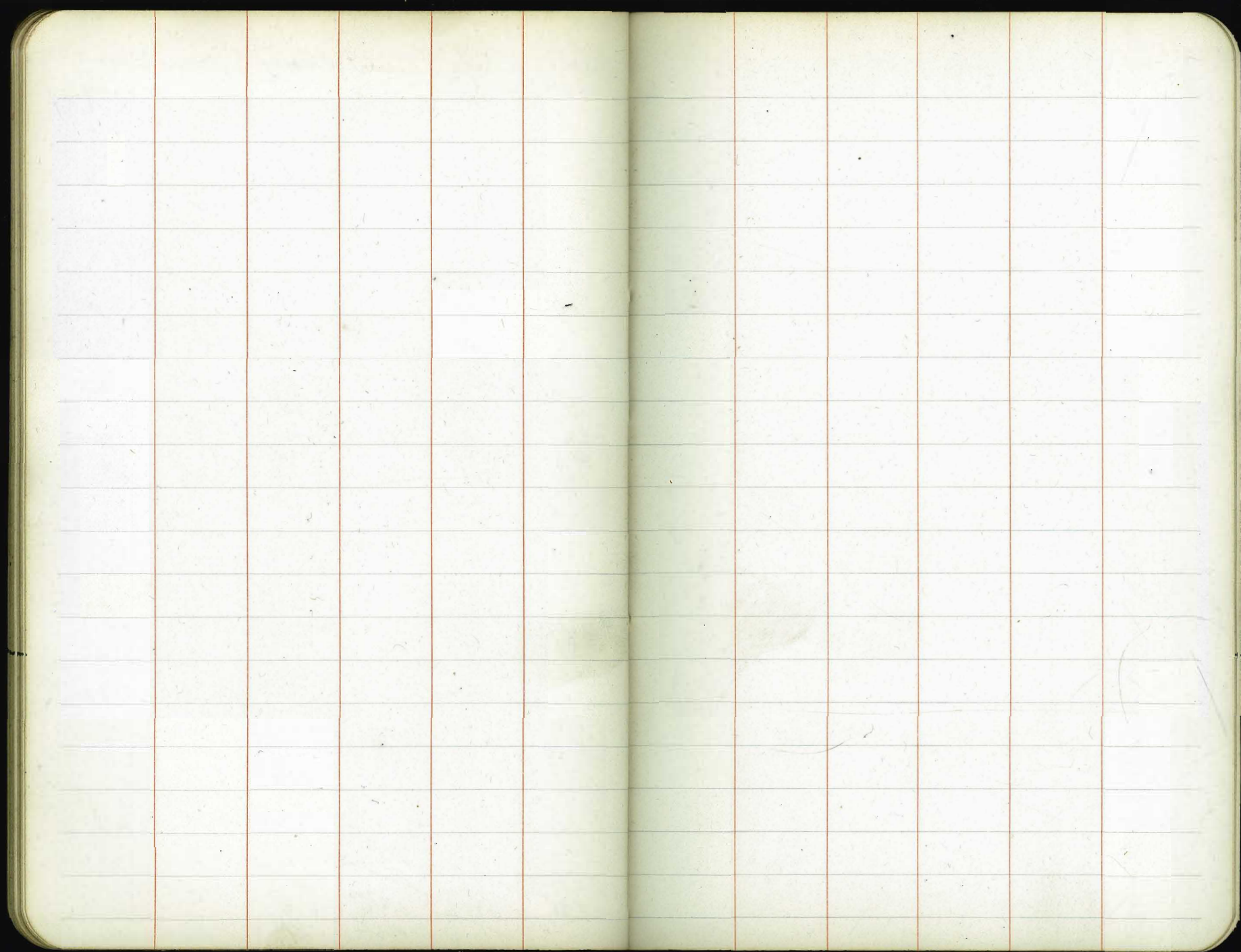
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40

16

| 1919 Jul. | Lauter- bachs | Japatul | Modicajuat Hooks | Rathesmalce Valley Harper's | Tecate | Potrero | LaPosta | Marron | Trigibly | Pucarno | Step- Valley |
|--------------|------------------|------------------|---------------------|-----------------------------------|--------|------------|---------|--------|----------|---------|-----------------|
| 1 | | | | | | | | | | | |
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| 8 | | | | | | | | | | | |
| 10 | | | | Tx | | | | | | | |
| 12 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 16 | (?) | .12 | | Tx 1.11 | | .01 .22 | | | .15 | | |
| 18 | .005 | .44 .01 Tx | 1.40 | 2.11 .05 .03 | .11 | .60 .09 | .17 | .02 | | .45 | Mm |
| 20 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 28 | | | | | | Tx | | | | | |
| | | .57 | 1.40 | 3.30 | .11 | .92 | .17 | 0.02 | 0.15 | | |

See Cotton wood.



1919
August

Lautarbochs Barrett Dutzona Summit Morena Hauser Creek Otay Lower Otay Upper Harvey Ranch Harper's Tecate Potrero

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.26

Tr.

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tr.

005 006 003 010
006 005 1.02

Tr. .05 .14 Tr.
Tr. 0.05 0.14 0.26

| 1919 | Japotal | Skye Valley | Pescanoso | Grigsby's | Chollas | Hook's | Marron | Daly's P.O. |
|----------|---------------------|-------------|-----------|-----------|---------|--------|--------|-------------|
| August 1 | | | | | | | | |
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| 14 | | | | | | | | |
| 15 | | | Trace | | | | | |
| 16 | 0.03 | | | | | | | |
| 17 | | | | None | | | None | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
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| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | $\frac{0.09}{0.12}$ | .57 | Trace | | Trace | .10 | | |

No Rain



| 1919 September | Lauter- bachs | Bennett | Blzuna Summit | Moreno | Hansen | Chollas | Harvey | Otay Upper | Otay Lower | Bonita Wye | Telegraph Canyon |
|-------------------|------------------|------------|------------------|------------|-------------|------------|------------|---------------|---------------|---------------|---------------------|
| 1 | Trace | 0.22 | 0.13 | .02 | 0.90 | | | .01 | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | tr. | | | | | |
| 6 | | | | | | tr. | | | | | |
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| 26 | | | | | | | | | | | |
| 27 | | 0.12 | | 0.18 | 0.12 | 0.24 | .36 | 0.40 | 0.16 | 0.12 | .09 |
| 28 | .08 | | | Tr | | | | 0.01 | Tr | | .05 |
| 29 | Trace | 0.07 | 0.19 | 0.16 | | .02 | .18 | 0.03 | 0.13 | 0.02 | .12 |
| 30 | .05 | | Tr. | Tr. | | | Tr. | 0.05 | Tr. | | .17 |
| | <u>.13</u> | <u>.41</u> | <u>.32</u> | <u>.36</u> | <u>1.02</u> | <u>.26</u> | <u>.54</u> | <u>.50</u> | <u>.29</u> | <u>.14</u> | <u>.43</u> |

| 1919 September | Skye Galley | Jafatul | Harpers Randa Trace | Grigsby | Hook's | Tecate | Descarse | Potrero .32 | LaPosta | Marron | Dalyano P.D. |
|-------------------|----------------|-----------|---------------------------|-----------|-----------|-----------|-----------|----------------|-----------|-----------|--------------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
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| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | .03 | | | | Trace | | .21 | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 26 | .24 | .34 | | | | | | | .28 | .10 | .15 |
| 27 | .18 | .18 | .03 | .10 | .21 | .09 | .30 | .32 | .08 | .02 | .04 .10 |
| 28 | .03 | .03 | Trace | | | | | .01 | .09 | .05 | |
| 29 | | .16 | .18 | .07 | .16 | | | .09 | .03 | | |
| 30 | | Trace | .03 | | .05 | .10 | | .01 | Trace | | |
| | <hr/> 37 | <hr/> .71 | <hr/> .27 | <hr/> .17 | <hr/> .42 | <hr/> .19 | <hr/> .30 | <hr/> .75 | <hr/> .69 | <hr/> .17 | <hr/> .79 |

| 1919 October | Bonita Wye | Otay Upper Lower | Harvey | Morena | Barrett | Dulzura Summitt | Telegraph | Hausen | Chollas | Lautbach |
|-----------------|---------------|---------------------|--------------|--------|---------|--------------------|-----------|--------|---------|----------|
| 1 | .14 | .05 .09 | .16 | .02 | | | | | .24 | Trace |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | .01 | .01 Trace | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | .18 | .20 | .64 | .39 | .26 | .15 | | .14 | .22 |
| 25 | | .27 | | | 1.03 | | .45 | | .77 | .26 |
| 26 | | | | | Trace | | | | | .03 |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| | 14 | .51 | 29 | .81 | 1.45 | 2.89 | 60 | | 1.15 | .51 |

Oct

1919

Descanso Dehesa

Grigsby

Harper

Hook

Jamul

Japatul

La Posta

Lyon Valley

Maxson

Potrero

2

3

4

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29

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Trace

.01

.49

.27

.35

.25

.41

.25

.35

.64

1.58

1.00

.61

.76

.14

.58

.01

.01

.05

Trace

.01

Trace

1.14

1.89

1.40

.91

1.82

1.18

.39

.95

Oct

1919

Tecate

Skye
Valley

The
Willows
Alpine

Dalyon 60

1

2

3

4

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27

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29

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.25

.33

.55

.64

.97

.80

1.94

70

20
50

| 1919 | Morena | Hauser | Barrett | Dulzura Summit | Harvey | Upper Utay | Lower Utay | Lauterbachs | Tel Canyon | Chollas | Bonita (Dunn) |
|------|------------|------------|------------|-------------------|-----------|------------|------------|-------------|---------------|-----------|---------------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | .22 | .50 | .02 | | | .02 | .01 | .23 | | | Trace |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | .05 | | | | | .01 | .01 | .16 | | Trace | |
| 21 | .08 | | | | | | | .01 | | | |
| 22 | .22 | | | | | | | .06 | | | |
| 23 | .90 | .45 | .58 | .50 | .38 | .31 | .36 | .40 | .34 | .20 | .30 |
| 24 | .07 | .10 | | | | .01 | | .03 | .01 | | .01 |
| 25 | Trace | Trace | | .05 | | | | .02 | | | |
| 26 | .01 | Trace | | | | | .01 | | | | |
| 27 | 1.72 | 1.65 | 1.47 | 1.42 | | .76 | .71 | 1.31 | .70 | .50 | .30 |
| 28 | 1.01 | .68 | .50 | .48 | .27 | .08 | .16 | .59 | .14 | .06 | .12 |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| | <hr/> 4.28 | <hr/> 3.54 | <hr/> 2.57 | <hr/> 2.45 | <hr/> .65 | <hr/> 1.19 | <hr/> .26 | <hr/> 2.81 | <hr/> 1.19 | <hr/> .76 | <hr/> .73 |

| 1919 | Harpers | Hook | Poturo | Grigby | Tecate | Japatul | Sky Valley | Marion | Dulzen P.O. |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|
| 1 | | | | | | | | | |
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| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | .23 | .35 | .20 | .14 | .12 | .16 | .15 | .05 | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
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| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | .16 |
| 20 | | .02 | .19 | .07 | .66 | .21 | | .30 | .40 |
| 21 | .22 | .20 | .01 | .11 | | Trace | | | |
| 22 | .10 | .40 | .06 | .21 | | .04 | | | |
| 23 | 1.23 | | .40 | 1.00 | .99 | .58 | .66 | .45 | |
| 24 | .01 | 1.40 | .03 | .04 | | .01 | | .05 | |
| 25 | Trace | .10 | .02 | | | Trace | | | |
| 26 | .02 | | | Trace | | Trace | | | 1.50 |
| 27 | 1.23 | 1.70 | 1.31 | 1.89 | 1.49 | | .60 | 1.00 | .44 |
| 28 | .15 | .52 | .39 | .50 | .40 | 2.07 | 1.00 | .13 | |
| 29 | | | | | | | | Trace | |
| 30 | <u>2.19</u> | <u>2.69</u> | <u>2.81</u> | <u>4.02</u> | <u>3.66</u> | | | | |
| 31 | | | | | | | | | |
| | | | | | | 3.07 | | | |
| | | | | | | <u>6.14</u> | <u>2.41</u> | <u>1.98</u> | <u>2.50</u> |

| 1919 | Morena | Hauser | Barrett | Dulzura Summit. | Harvey | Upper Otay | Lower Otay | Lauterbach | Tel. Canyon | Chollas | Bonita. |
|----------|-------------|----------------|------------|--------------------|------------|-------------|-------------|------------|-------------|------------|------------|
| December | | | | | | | | | | | |
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | .05 | .15 | .09 | .04 | .08 | .07 | .06 | .07 | .09 | .05 | |
| 5 | .85 | .65 | .28 | .35 | .50 | .61 | .59 | .34 | .75 | .43 | .30 |
| 6 | .07 | .12 | .09 | .07 | .18 | .12 | .12 | .12 | .15 | .12 | .04 |
| 7 | .02 | .10 | .03 | .06 | .03 | .01 | .04 | .04 | .02 | | .02 |
| 8 | .10 | .05 | .06 | .02 | .03 | .03 | .02 | .05 | .03 | .03 | .03 |
| 9 | .12 | .05 | | | | | .01 | .05 | .04 | .02 | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | .22 | .25 | .14 | .12 | | .30 | .29 | .19 | .29 | .24 | .24 |
| 13 | .10 | .10 | .05 | .03 | | | Trace | .04 | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
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| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
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| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| 31 | | | | | | | | | | | |
| | <u>1.53</u> | <u>1.42</u> | <u>.74</u> | <u>.69</u> | <u>.62</u> | <u>1.14</u> | <u>1.13</u> | <u>.90</u> | <u>1.32</u> | <u>.96</u> | <u>.63</u> |

1920
January

Dulynna Valley

2-05

3-1.05

4-.10

23-.12

24-.05

27-.45

Gingby

3-.10

4-1.69

5-.13

6-.03

11-.03

23-.14

24-.02

24

Potro

3-.10

4-1.12

5-.08

11-.02

23-.20

24-.08

160

Iocate

3-.08

4-1.10

5-.06

23-.21

24-.10

| 1920 | Harpur | La Porta | Hooker | Japatul | Morrison |
|------|--------|----------|--------|---------|----------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | .14 | .10 | .15 | .11 | |
| 4 | 1.74 | .84 | 1.10 | .92 | .95 |
| 5 | .08 | .11 | .20 | .10 | .10 |
| 6 | .03 | | | Trace | |
| 7 | Tr | | | | |
| 8 | Tr | | | Trace | |
| 9 | | | | | |
| 10 | | | | | Trace |
| 11 | .14 | | .02 | | |
| 12 | .19 | .10 | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | Tr | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | .29 | .24 | .10 | .23 | .44 |
| 24 | .02 | .01 | .05 | .06 | |
| 25 | | | | Trace | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | Tr | | | | |

$\frac{2.63}{1.40}$ $\frac{1.92}{1.42}$ $\frac{1.49}{1.49}$

| 1920 | 1920 | 1920 | 1920 |
|-----------|----------|-------------|----------|
| February | February | February | February |
| Dulzura | Hook | Lynn Valley | Petro |
| 7- .35 | 2- .5 | 9- .23 | 3- Trace |
| 8- 1.45 | 4- .50 | 8- .10 | 24 Trace |
| 9- .12 | 8- 25 | 9- 1.87 | 25 Trace |
| 10- .09 | 10- .35 | 10- .42 | 26 Trace |
| 20- .15 | 20- .55 | 11- .03 | 28 Trace |
| 21- .95 | 21- 1.90 | 19- .02 | 29 Trace |
| 22- 1.25 | 22- 1.75 | 20- 28 | |
| 23- .85 | 23- 1.30 | 21- 1.75 | |
| 29- Tr | 8.25 | 22- 1.50 | |
| Morrison | Lynne | 6.55 | 23- 1.37 |
| Valley | Ponita | 28- .01 | 29 Tr |
| 8- .14 | 4- .09 | 7- 7.35 | |
| 9- 2.09 | 8- .28 | Trace | |
| 10- .21 | 9- 1.60 | | |
| 17- .02 | 10- .43 | 8- .08 | |
| 18- .24 | 20- .45 | 9- 1.60 | |
| 19- .84 | 21- 1.42 | 10- .46 | |
| 20- 1.12 | 22- 1.52 | 21- 1.60 | |
| 21- .65 | 23- 1.60 | 22- .79 | |
| 28- Trace | 7.39 | 23- .71 | |
| 29- .01 | 5.32 | 5.27 | |
| Harpur | La Porta | Japatul | |
| Rauch | | | |
| 3- .03 | 3- .20 | 5- .11 | |
| 4- .12 | 7- .18 | 6- Trace | |
| 8- .21 | 8- 1.74 | 9- .23 | |
| 9- .92 | 9- .37 | 10- 1.20 | |
| 10- .26 | 10- .06 | 11- .39 | |
| 20- .12 | 11- .05 | 12- .01 | |
| 21- 1.78 | 19- .51 | 17- Trace | |
| 22- 1.47 | 19- .08 | 18- Trace | |
| 23- .85 | 20- 2.09 | 19- .03 | |
| | 20- .73 | 20- .44 | |
| | 21- 1.97 | 21- 1.43 | |
| | 22- 1.78 | 22- 1.97 | |
| | 23- .96 | | |
| | 28- .01 | | |
| | 29- Tr | | |

23-1.00
 24 Trace
 25 Trace
 26 Trace
 28 Trace
 29 Trace
 687

1920
 February

| | Morena | Hawm | Banett | Cottonwood | Dalyana Summit | Harvey | Upper Otay | Lower Otay | Telegraph Canyon | Banita | Chollas |
|--|--------|------|--------|------------|----------------|--------|------------|------------|------------------|--------|---------|
|--|--------|------|--------|------------|----------------|--------|------------|------------|------------------|--------|---------|

| | | | | | | | | | | | |
|----|-----------|-------|-----------|----------------|---------------------|------|------|------|------|---------------------|------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | Trace ✓ | | | | | | | | | | |
| 4 | .17 ✓ | 0.12 | 0.03 | .02 | | | | | | | |
| 5 | | | | .05 | | | | | | | |
| 6 | | | | .05 | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | .12 ✓ | None | .07 | .06 | .92 | | .05 | .05 | .06 | .08 | 0.12 |
| 9 | 1.51 ✓ | 1.40 | 1.83 | 1.62 | 1.76 .84 | 1.01 | .95 | 1.19 | 1.25 | 1.00 | 0.81 |
| 10 | 36 ✓ | 0.45 | .21 | .23 | .15 | .18 | .17 | .13 | .16 | .25 | 0.21 |
| 11 | tr. ✓ | Trace | 0.03 | .03 | | | | | | .01 | 0.04 |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 19 | tr. ✓ | Tr | 0.02 | Tr | | | | | 0.02 | 0.05 | 0.04 |
| 20 | 39 0.35 | 0.23 | 101 0.21 | .16 | .92 | 0.21 | 0.21 | 0.21 | 0.20 | 0.15 | 0.23 |
| 21 | 1.99 2.32 | 1.73 | 0.74 1.64 | 1.39 | 0.41 .41 | 1.20 | 0.84 | 0.84 | 0.85 | 770 0.75 | 0.71 |
| 22 | 1.82 | 1.43 | 1.29 | 1.20 | 1.80 | 1.13 | 1.16 | 1.00 | 1.10 | 103 1.05 | 1.05 |
| 23 | 1.60 | 1.23 | 1.03 | 1.06 | .15 | .43 | 0.35 | .34 | .38 | 120 0.15 | .32 |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | .02 | | | | tr. | | | Tr |
| 29 | tr. ✓ | | | 5.89 | 3.19 | 4.16 | 3.73 | 3.76 | 4.05 | 2.21 | Tr |

8.31 ✓ 6.59 6.36 5.89 3.19 4.16 3.73 3.76 4.05 2.21 Tr

353

1920
March

| | Morrna | Hause | Barrett | Cotton wood | Dryden Summit | Harvey | upper stay | Lower stay | Telegraph Canyon | Bonita | Chollas |
|----|--------|-------|---------|----------------|------------------|--------|----------------|---------------|---------------------|--------|---------|
| 1 | 0.01 | | tr. | 0.01 | | | | | | | 0.2 |
| 2 | 0.77 | 0.35 | 0.58 | 0.48 | 0.52 | 0.61 | 0.52 | 0.34 | 0.55 | 0.43 | 0.44 |
| 3 | 0.17 | | 0.05 | 0.04 | | | | .06 | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | 0.90 | 1.22 | 0.73 | 1.04 | 1.05 | 0.71 | 0.97 | 0.60 | 0.80 | 0.90 | 0.74 |
| 11 | 0.34 | 0.15 | 0.42 | 0.16 | 0.13 | | 0.02 | 0.02 | 0.04 | 0.03 | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | tr. | 0.35 | | | | | | | | | |
| 15 | | 0.72 | | | | | | | | | |
| 16 | tr. | 0.45 | | | | | | | | | |
| 17 | .51 | .45 | .54 | 0.26 | .45 | .38 | .30 | 32. | 0.31 | 0.26 | 0.18 |
| 18 | 0.10 | | | 0.08 | | | | | | 0.02 | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | 0.11 | .18 | .55 | 0.12 | .48 | | .16 | .12 | 1 | 0.02 | 0.04 |
| 22 | 1.24 | .72 | .09 | 0.69 | .33 | | .26 | .26 | 0.12 | 0.07 | 0.36 |
| 23 | 1.59 | 1.35 | 1.45 | 1.15 | 0.29 | 1.20 | 1.16 | 1.07 | 0.92 | 1.05 | 0.77 |
| 24 | .52 | .45 | 0.43 | 0.48 | 0.47 | .45 | .21 | .23 | 0.07 | 1.05 | 0.15 15 |
| 25 | .05 | .05 | 0.23 | 0.04 | tr. | | .03 | tr. | 0.01 | | 0.04 |
| 26 | .20 | .15 | .23 | 0.22 | .29 | .28 | .44 | .17 | 0.19 | 0.31 | 0.17 |
| 27 | .85 | 1.05 | 1.01 | 0.90 | .58 | .60 | .35 | .38 | 0.50 | 0.32 | 0.26 |
| 28 | | | | | | | .02 | | | | |
| 29 | | | | | | | | | | | |
| 30 | 7.36 | | 6.09 | | 4.59 | 4.18 | 4.45 | 3.57 | 3.57 | 4.46 | 3.17 |
| 31 | | 7.19 | | 5.67 | | | | | | | |

1920

March

Harps
Panch

Haak

Lynns
Valley

La Porta

Japatul

Postero

Marro
Valley

1

0.10

0.96

0.88

0.02

0.49

2

1.20

0.90

0.16

0.76

0.55

3

0.10

Trace

0.06

4

5

6

7

8

9

0.71

0.85

1.05

Trace

1.14

1.00

10

0.10

0.40

0.96

0.02

0.03

11

12

Trace

Trace

13

14

15

16

0.03

0.50

0.68

0.44

0.45

0.53

0.48

17

0.32

0.10

0.02

0.07

0.08

0.03

18

19

20

21

0.02

0.65

1.33

0.20

0.24

0.30

22

1.19

1.30

1.90

1.88

0.85

0.80

0.21

23

1.75

1.70

0.38

0.38

1.63

1.43

0.78

24

0.35

6.45

0.01

0.34

0.67

0.33

25

0.09

0.55

0.26

0.03

0.03

0.02

26

0.19

0.25

0.90

0.75

0.34

0.25

0.30

27

0.48

0.90

0.77

0.82

0.83

28

29

30

31

Trace

676

715

749

609

643

659

5.08

1920

April

| | Morris Jr. | Hauer Jr. | Barrett | cotton wood Jr. | Sulphur Summit | Harvey | Upper Creek Jr. | Lower Creek Jr. | Del. Canyon | Bonita 03 | Challus |
|---------------|---------------|--------------|---------|-----------------------|-------------------|--------|-----------------------|-----------------------|-------------|--------------|---------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
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| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | 0.25 | 0.23 | 0.22 | 0.19 | 0.22 | 0.28 | 0.20 | 0.22 | | 0.10 | 0.31 |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | 0.01 | 0.02 | Jr. | | 0.01 | | | | |
| 15 | 0.05 | Jr. | | Jr. | Jr. | | | | | | Jr. |
| 16 | 0.51 | 0.36 | 0.55 | 0.43 | 0.32 | | 0.43 | 0.38 | | 0.32 | 0.34 |
| 17 | 0.25 | 0.05 | 0.33 | 0.48 | 0.17 | | 0.05 | 0.05 | | 0.02 | 0.02 |
| 18 | Jr. | | | | | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | 0.06 | 0.02 | | Jr. | | | Jr. | Jr. | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| 31 | 1.14 | 0.66 | 1.11 | 1.12 | 0.91 | .28 | 0.69 | 0.65 | | 0.47 | 0.67 |

April
 Mor. ~~Hansen Barrett~~ ~~Cotton wood~~ ~~leel-Sum~~

~~Harvey~~ ~~Up clay~~ ~~Low clay~~ ~~Fel. Canyon~~ ~~Bouto~~ ~~Chellan~~

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28
29
30
31

0.23

.22

.22

Tr

.01

Tr

Tr

0.36

.55

.32

0.25

.33

.17

Tr

0.06

0.02

Total.

Tr

Tr

.20

.22

.01

.43

.38

.08

.65

Tr

| 1970 May | morua | Hause | Barratt | Cotton wood | Daly Summit | Harvey | Upper Clay | Lowellay | Relegas Canyon | Bouta | Chollen |
|-------------|-----------------|----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|-------------------|-------|---------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | tr. | | | | | | tr | .03 | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | 0.18 | .03 | 0.04 | | tr. | 0.07 | .12 | .13 | | | |
| 11 | 0.01 | Tr | 0.02 | | | 0.01 | | | | | |
| 12 | | .03 | | | | | | | | | |
| 13 | tr. | | | | tr. | | | | | | |
| 14 | 0.05 | | | | | | | .02 .02 | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | 0.007 | .02 | .002 | | .02 | 0.01 | .30 | .16 | | | |
| 22 | 0.19 | .22 | 0.78 | | 0.42 | 0.51 | .01 | .23 | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| 31 | 0.50 | .30 | 0.86 | | 0.72 | 0.60 | .43 | 0.59 | | | |

| June | Morena | Hauser | Barrett | Cartin | Wood | Dub. | Sum. | Harvey | Up. Day | Lo. Day | Del. Gen | Bonta | Chollas |
|------|--------|--------|---------|--------|------|------|------|--------|---------|---------|----------|-------|---------|
| 1 | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |

Totals

Morena

July

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31

Totals

up to

now

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES $1\frac{1}{2}$ TO 1.

FOR SINGLE TRACK EMBANKMENT.

| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
|----|------|------|------|------|------|------|------|------|------|------|----|
| 0 | 7.0 | 7.2 | 7.3 | 7.5 | 7.6 | 7.8 | 7.9 | 8.1 | 8.2 | 8.4 | 0 |
| 1 | 8.5 | 8.7 | 8.8 | 9.0 | 9.1 | 9.3 | 9.4 | 9.6 | 9.7 | 9.9 | 1 |
| 2 | 10.0 | 10.2 | 10.3 | 10.5 | 10.6 | 10.8 | 10.9 | 11.1 | 11.2 | 11.4 | 2 |
| 3 | 11.5 | 11.7 | 11.8 | 12.0 | 12.1 | 12.3 | 12.4 | 12.6 | 12.7 | 12.9 | 3 |
| 4 | 13.0 | 13.2 | 13.3 | 13.5 | 13.6 | 13.8 | 13.9 | 14.1 | 14.2 | 14.4 | 4 |
| 5 | 14.5 | 14.7 | 14.8 | 15.0 | 15.1 | 15.3 | 15.4 | 15.6 | 15.7 | 15.9 | 5 |
| 6 | 16.0 | 16.2 | 16.3 | 16.5 | 16.6 | 16.8 | 16.9 | 17.1 | 17.2 | 17.4 | 6 |
| 7 | 17.5 | 17.7 | 17.8 | 18.0 | 18.1 | 18.3 | 18.4 | 18.6 | 18.7 | 18.9 | 7 |
| 8 | 19.0 | 19.2 | 19.3 | 19.5 | 19.6 | 19.8 | 19.9 | 20.1 | 20.2 | 20.4 | 8 |
| 9 | 20.5 | 20.7 | 20.8 | 21.0 | 21.1 | 21.3 | 21.4 | 21.6 | 21.7 | 21.9 | 9 |
| 10 | 22.0 | 22.2 | 22.3 | 22.5 | 22.6 | 22.8 | 22.9 | 23.1 | 23.2 | 23.4 | 10 |
| 11 | 23.5 | 23.7 | 23.8 | 24.0 | 24.1 | 24.3 | 24.4 | 24.6 | 24.7 | 24.9 | 11 |
| 12 | 25.0 | 25.2 | 25.3 | 25.5 | 25.6 | 25.8 | 25.9 | 26.1 | 26.2 | 26.4 | 12 |
| 13 | 26.5 | 26.7 | 26.8 | 27.0 | 27.1 | 27.3 | 27.4 | 27.6 | 27.7 | 27.9 | 13 |
| 14 | 28.0 | 28.2 | 28.3 | 28.5 | 28.6 | 28.8 | 28.9 | 29.1 | 29.2 | 29.4 | 14 |
| 15 | 29.5 | 29.7 | 29.8 | 30.0 | 30.1 | 30.3 | 30.4 | 30.6 | 30.7 | 30.9 | 15 |
| 16 | 31.0 | 31.2 | 31.3 | 31.5 | 31.6 | 31.8 | 31.9 | 32.1 | 32.2 | 32.4 | 16 |
| 17 | 32.5 | 32.7 | 32.8 | 33.0 | 33.1 | 33.3 | 33.4 | 33.6 | 33.7 | 33.9 | 17 |
| 18 | 34.0 | 34.2 | 34.3 | 34.5 | 34.6 | 34.8 | 34.9 | 35.1 | 35.2 | 35.4 | 18 |
| 19 | 35.5 | 35.7 | 35.8 | 36.0 | 36.1 | 36.3 | 36.4 | 36.6 | 36.7 | 36.9 | 19 |
| 20 | 37.0 | 37.2 | 37.3 | 37.5 | 37.6 | 37.8 | 37.9 | 38.1 | 38.2 | 38.4 | 20 |
| 21 | 38.5 | 38.7 | 38.8 | 39.0 | 39.1 | 39.3 | 39.4 | 39.6 | 39.7 | 39.9 | 21 |
| 22 | 40.0 | 40.2 | 40.3 | 40.5 | 40.6 | 40.8 | 40.9 | 41.1 | 41.2 | 41.4 | 22 |
| 23 | 41.5 | 41.7 | 41.8 | 42.0 | 42.1 | 42.3 | 42.4 | 42.6 | 42.7 | 42.9 | 23 |
| 24 | 43.0 | 43.2 | 43.3 | 43.5 | 43.6 | 43.8 | 43.9 | 44.1 | 44.2 | 44.4 | 24 |
| 25 | 44.5 | 44.7 | 44.8 | 45.0 | 45.1 | 45.3 | 45.4 | 45.6 | 45.7 | 45.9 | 25 |
| 26 | 46.0 | 46.2 | 46.3 | 46.5 | 46.6 | 46.8 | 46.9 | 47.1 | 47.2 | 47.4 | 26 |
| 27 | 47.5 | 47.7 | 47.8 | 48.0 | 48.1 | 48.3 | 48.4 | 48.6 | 48.7 | 48.9 | 27 |
| 28 | 49.0 | 49.2 | 49.3 | 49.5 | 49.6 | 49.8 | 49.9 | 50.1 | 50.2 | 50.4 | 28 |
| 29 | 50.5 | 50.7 | 50.8 | 51.0 | 51.1 | 51.3 | 51.4 | 51.6 | 51.7 | 51.9 | 29 |
| 30 | 52.0 | 52.2 | 52.3 | 52.5 | 52.6 | 52.8 | 52.9 | 53.1 | 53.2 | 53.4 | 30 |
| 31 | 53.5 | 53.7 | 53.8 | 54.0 | 54.1 | 54.3 | 54.4 | 54.6 | 54.7 | 54.9 | 31 |
| 32 | 55.0 | 55.2 | 55.3 | 55.5 | 55.6 | 55.8 | 55.9 | 56.1 | 56.2 | 56.4 | 32 |
| 33 | 56.5 | 56.7 | 56.8 | 57.0 | 57.1 | 57.3 | 57.4 | 57.6 | 57.7 | 57.9 | 33 |
| 34 | 58.0 | 58.2 | 58.3 | 58.5 | 58.6 | 58.8 | 58.9 | 59.1 | 59.2 | 59.4 | 34 |
| 35 | 59.5 | 59.7 | 59.8 | 60.0 | 60.1 | 60.3 | 60.4 | 60.6 | 60.7 | 60.9 | 35 |
| 36 | 61.0 | 61.2 | 61.3 | 61.5 | 61.6 | 61.8 | 61.9 | 62.1 | 62.2 | 62.4 | 36 |

Calculated by Julien A. Hall, M. Am. Soc. C. E.