

L. O. D.

7-25-19.

PHOTOGRAPHS.

250--

FIELD BOOK

361S

C. H. BRYSON.

W112

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 TRACK EXCAVATION.

"Copyright, 1885, by Keuffel & Esser Co."

	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.

FOR KEITH'S RAILROAD CURVE TABLES SEE END OF BOOK.

Photographs

CH.B

Serial# 7/25-

251. ① Lower Otay Dam - Looking downstream from right side of canyon. Overflow section completed & bridge about 50% completed. Stop 64. Time - Inst. - Slow - Time of day 1 P.M. Light - Brilliant Sunlight.
252. ② - 7/25/19 - L.O.D. Looking across top of dam from cableway head tower. Dam completed to fixed lip of spillway section. Stop 64. Time Inst. - Slow - Time of day 1:15 P.M. Light Brilliant Sunlight.
253. ③ 7/25/19 - L.O.D. Looking up - stream from left bank of canyon - Stop 64. Time Inst. - Slow - Time of day 1:30 P.M. Light Brilliant Sunlight.
254. ④ 7/25/19 - L.O.D. Looking upstream from right side of canyon. Dam comp. to fixed lip of spillway section. Res. Gauge 137.5 El. 484.7 Res. Capacity 50,000 A.F. Gravity sec. Comp. to top of parapet. Gauge 149. El. 496.2. Except short reach in extreme right end not shown

- Stop #64 - Time Inst. Slow - Time 1:40 P.M. Light Brilliant Sunlight.
255. ⑤ 7/25/19. L.O.D. Independent Spillway Outlet. Looking upstream shows floor completed first lift of side walls poured. Stop #64 Time Inst. - Slow. Time 2:00 P.M. Light - Brilliant Sunlight.
256. ⑥ 7/25/19. L.O.D. Independent Spillway. Looking upstream from right bank showing completed excav. for left wing Spillway Lip. Steam shovel being moved out. Stop - 64 Time Inst. - Slow - Time 2:15 Light Brilliant Sunlight.
257. ⑦ 7/28. L.O.D. - Duroc pigs raised at L.O.D. Construction camp from Mess House Garbage - Stop - 87 Time - 1/2 - 1/4 Sec. Light - Dim. Time 7 P.M.
258. ⑧ 7/28 L.O.D. Looking downstream from right side of canyon. Overflow section roadway bridge completed. Stop 64 Time Inst. Slow

Light. Brilliant sunlight. Time

12.15 P.M. 8/2/19

#259 ③ Lower Otay Dam. Independent Spillway. Looking upstream showing walls & floor at outlet end completed. Stop 64 T. Inst. Slow. Light Brilliant sunlight. Time

12.40 P.M. 8/2/19

#260 ④ Lower Otay Dam. Independent Spillway. Looking upstream from left bank, showing concrete being placed in upstream end of floor of channel, reinforcing steel placed in right lip & excavation for lip across channel. Stop 64 Time Inst. S.

Light Brilliant sunlight. Time 12.55 P.M.

#261 #⑤ ^{8/12/19} Lower Otay Dam. Independent Spillway. Looking upstream from left bank of channel showing right lip & piers completed; placing masonry in lip across channel. Time 12.45 Light Brilliant Sunlight. Stop 64 Time Inst. Slow.

#262 ⑥ 8/12/19 Lower Otay Dam. Independent Spillway. Looking upstream from right

bank showing masonry partially placed for left lip, forms in place for balance & piers, & placing masonry in portion of lip across channel. Light Brilliant sunlight Time 1.15 P.M. Stop 64 Time Inst. Slow

#263. 8/28/19. Lower Otay Dam. Looking

UPSTREAM FROM LEFT BANK —

SHOWING CRUSHER, CEMENT MIXERS AND CREW FILLING MASS ROCK STALL.

Light-BRILLIANT SUNLIGHT. Time 12.45 P.M.

64 - INST. SLOW.

#264. 8/28/19. LOWER OTAY DAM.

INDEPENDENT SPILLWAY. Looking

UPSTREAM FROM RIGHT BANK OF

CHANNEL, SHOWING COMPLETED

MASONRY AND PLACING OF PIPE

RAILING. Light BRILLIANT SUNSHINE

Time, 1.45 P.M. 64 - INST. SLOW.

#265. 8/28/19 LOWER OTAY DAM.

INDEPENDENT SPILLWAY. Looking

UPSTREAM FROM LEFT BANK OF
CHANNEL, SHOWING COMPLETED
SPILLWAY AND RAILING. LIGHT BRILLIANT
Sunshine. TIME 1:55 P.M. 64. INST. SLOW.

#266. 8/28/19. LOWER OTAY DAM.
LOOKING DOWNSTREAM FROM RIGHT
SIDE OF ~~CANYON~~ ^{Reservoir}, SHOWING INDE-
PENDENT SPILLWAY. ON THE LEFT,
CABLEWAY TOWERS AND UPSTREAM
FACE OF THE DAM. LIGHT BRILLIANT
Sunlight - TIME 3:45 P.M. 32 INST. SLOW.

#267. 8/28/19. LOWER OTAY DAM.
INDEPENDENT SPILLWAY, LOOKING
DOWNSTREAM FROM KNOLL SHOW-
ING COMPLETED MASONRY.
LIGHT BRILLIANT SUNLIGHT. TIME 4:10 P.M.
INST. SLOW.

#268. 8/29/19. LOWER OTAY DAM
BERKSHIRE-DUROC SOW AND
FAMILY (born ^{Aug} Sept. 23-1919) LIGHT
BRILLIANT SUNSHINE. TIME 12:30 P.M.
INST. SLOW.

#269. ^{8/29/19} LOWER OTAY DAM. SEVENTEEN
BERKSHIRE-DUROC PIGS. COST \$6.00
(per head) April 2nd 1919. VALUE \$25.00
(✓ ✓) Sept. 29th 1919. READY FOR
MARKET. 125 POUNDS GAIN IN
180 DAYS ON WET GARBAGE. LIGHT
BRILLIANT SUNLIGHT. TIME 12:40 P.M.
64 - INST. SLOW.

#270. 8/29/19. LOWER OTAY DAM.
BERKSHIRE-DUROC SOW SUPPLYING
NOONDAY MEAL TO HER SEVEN
DAY OLD FAMILY. LIGHT-BRILLIANT
Sunshine - TIME 12:50 P.M. 64.
INST. SLOW.

#271. 8/30/19. LOWER OTAY DAM.
LOOKING UPSTREAM FROM LEFT
BANK SHOWING CRUSHER, CEMENT
MIXERS AND CREW FILLING MASS
ROCK STALL. LIGHT-DULL - TIME 12:40 P.M.
70 INST. SLOW.

#272. 8/30/19. LOWER OTAY DAM.

INDEPENDENT SPILLWAY LOOKING
UPSTREAM FROM RIGHT BANK OF
CHANNEL SHOWING COMPLETED MASONRY
AND RAILING. LIGHT - DULL. TIME
12:50 P.M. 64. Inst. Slow.

✓ #273. 8/30/19. LOWER OTAY DAM.
INDEPENDENT SPILLWAY. LOOKING UP-
STREAM FROM LEFT BANK OF CHANNEL
SHOWING COMPLETED MASONRY AND
RAILING. LIGHT - DULL. TIME 1:00 P.M.
64. Inst. Slow.

#274. 8/31/19. LOWER OTAY DAM.
POURING LAST CEMENT IN PARAPET
RIGHT WING OF THE DAM. LIGHT
DULL. TIME 11:35 A.M. 32 Bulb 1-23.

#275. 8/31/19. LOWER OTAY DAM.
POURING LAST CEMENT IN PARAPET
RIGHT WING OF THE DAM. LIGHT, DULL.
TIME 11:37 A.M. 32. Bulb. 1-23.

#276. 8/31/19. LOWER OTAY DAM
LOOKING ACROSS THE DAM, SHOWING

COMPLETED MASONRY AND PLACING
OF RAILING - VIEW FROM HEAD
TOWER. LIGHT, DULL. TIME 12:50 P.M.
100 Bulb. 1-23 1/2.

#277. 9/1/19. LOWER OTAY DAM.
CHRISTENING DAM ON LABOR DAY.
SEPT. 1ST 1919. MRS. LAWRENCE
(AUNT OF MR. H. M. SAVAGE) BREAKING
BOTTLE ON RAIL. LIGHT BRILLIANT
SUNSHINE. TIME 11:45 A.M. 16. Inst.
Slow.

#278. 9/1/19. LOWER OTAY DAM.
MELVILLE KLAUBER ADDRESSING
AUDIENCE AT DEDICORY EXERCISES
LABOR DAY - SEPT. 1ST 1919. LIGHT
BRILLIANT SUNSHINE. TIME 11:50 A.M.
16. Inst. Slow.

#279. 9/1/19. LOWER OTAY DAM.
PANORAMA - SHOWING RIGHT
WING AND AUDIENCE AT DEDICORY
EXERCISES - FROM TOP OF DAM.
LIGHT BRILLIANT SUNSHINE. TIME 12:05 P.M.

32. Inst. Slow.

#280. 9/1/19. LOWER OTAY DAM.

✓ CHANDLER SIX CROSSING DAM.

FIRST MACHINE ACROSS AFTER
COMPLETION. LIGHT. Brilliant Sun-
shine. TIME. 5:30 P.M. Bulb 1/4.

#281. 9/1/19. LOWER OTAY DAM.

✓ CHANDLER SIX CROSSING DAM.

LIGHT. Brilliant Sunshine. TIME 5:25
P.M. Bulb 1/4.

#282. 9/4/19. LOWER OTAY DAM.

BERKSHIRE-DUROC PIGS - DAY

BEFORE SHIPMENT TO MARKET.

STEWART WOODMAN, COOK BERCK

AND KEEPER RODRIGUEZ. LIGHT.

Brilliant Sunshine. TIME 6:35

P.M. 40 Inst. Slow

#283. 9/4/19. LOWER OTAY DAM

- SAME AS #282

✓ 284. 9/6/19. LOWER OTAY DAM.

LOOKING ACROSS THE DAM, SHOWING
COMPLETED MASONRY AND RAILING.

VIEW FROM HEAD TOWER. LIGHT
Brilliant Sunshine. TIME. 12:55 P.M.

64. Inst. Slow.

✓ 285. 9/6/19. LOWER OTAY DAM.

LOOKING UPSTREAM FROM RIGHT
BANK OF ~~Canion~~ Canyon - SHOWING

DOWNSTREAM FACE OF DAM.

INDEPENDENT SPILLWAY ON THE
RIGHT. LIGHT. Brilliant Sunshine.

80. Inst. Slow.

#286. 11/1/19. Lower Otay Dam.

Sheriff's sale of J.K. attached
Const. Equip. & Mats. of Const. Sheriff
Byers receiving bids.

#287. Blank.

#288. 11/1/19. Lower Otay Dam, Sheriff's
sale of J.K. attached Const. Equip
& Materials of Const. Sold to City
of San Diego.

#289. 11/1/19. Same as 288

#290 - Lower Otay Dam. Salvaging
cottage building for removal to
Barrett Dam.

#291 - Lower Otay Dam. Salvaging
dormitory & cottage buildings
for removal to Barrett Dam.

#292 - 293 - 294 - 295 - 296 - 297.
Barrett Dam.

#298 - 299 - 300
El Capitan Dam site

#301 - 302 - 303
Barrett Dam.

#304 - ¹²⁻¹⁸⁻¹⁹ Lower Otay Dam - City
of San Diego. Filtration Plant
looking North West showing
Filtration Plant & Discharge pipes.

#305 - ¹²⁻¹⁸⁻¹⁹ Lower Otay Dam - City of
San Diego. Filtration Plant. Looking
North West showing Filtration Plant,
Discharge Pipes & Wood Stave Pipe
Line to San Diego.

306 - 307 - 308 - 309 B.D.

310 - B.D.

311 - 1/15/20 Lower Otay Dam - Hoisting
#8 Rock Crusher Casting ~~from~~

with Cableway. Weight 16 Tons.

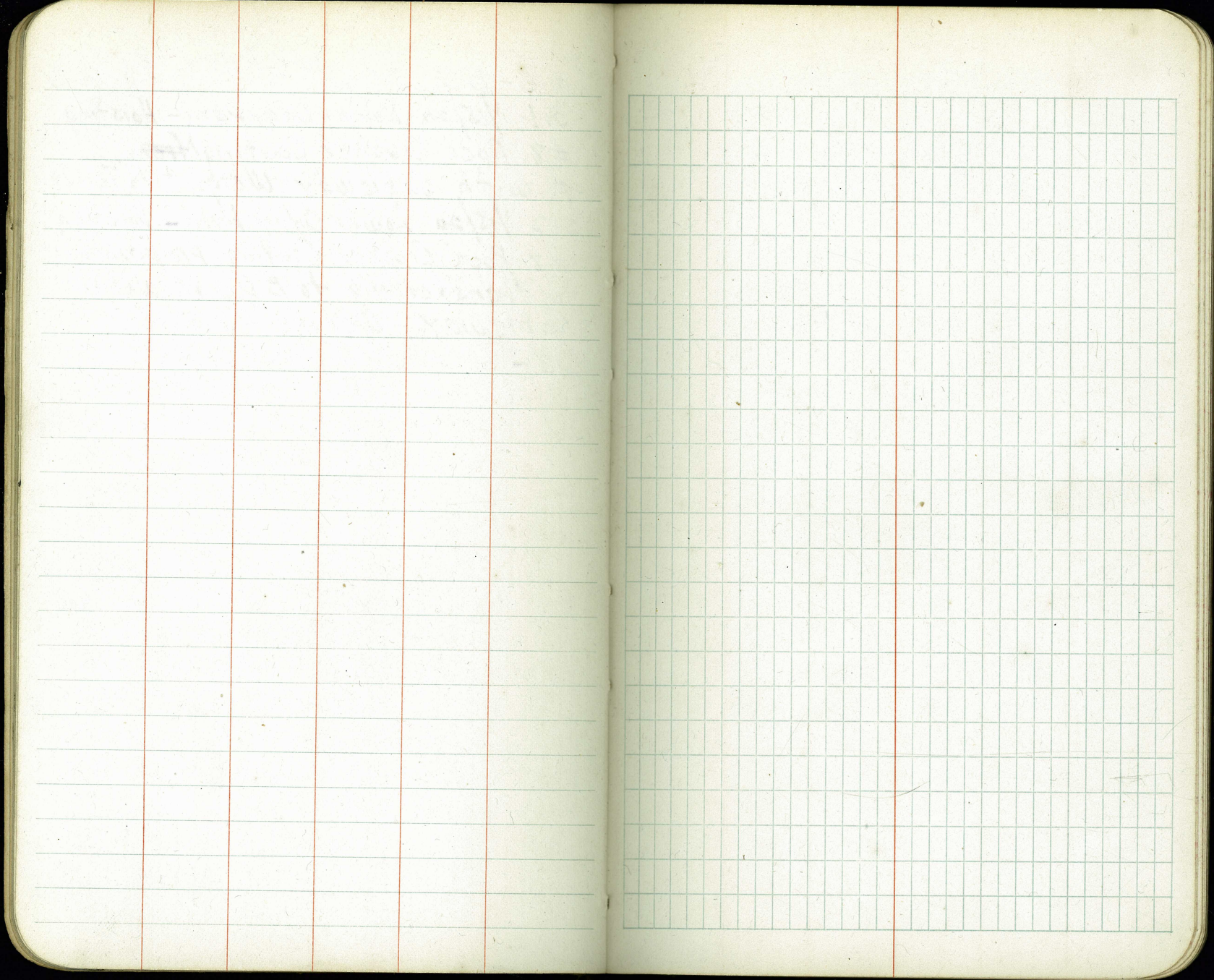
312 1/15/20 Lower Otay Dam - Hoisting

#8 Rock Crusher Casting, preparatory
to transferring to B.D.C.W. with

Cableway. Weight 16 Tons.

313 -

Preparatory to
transferring to B.D.C.W.



DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ 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 Jullen A. Hall, M. Am. Soc. C. E.