

PROPERTY OF THE STATE OF IDAHO

Form No. 300-W

WATERMASTER'S

DAILY RECORD

Stream Wearie River

Water District 67

Month of May June July + August, 192006

Watermaster Bosco Bode

P. O. Address _____

Ten days after the close of the Irrigation season the Watermaster must forward this book to

DEPARTMENT OF WATER
RESOURCES
STATE HOUSE
BOISE, IDAHO 83701

If this book is lost, the finder will please return it to the Watermaster of the district, as it contains valuable records.

MEASUREMENT OF WATER

Hydraulic Equivalents Which Will Be Found Useful To Irrigators

A cubic foot of water per second of time shall be the legal standard for the measurement of water in this state.

1. One Idaho Miner's inch equals approximately 1/50th of a cubic foot per second, or 9 gallons per minute.
2. A cubic foot per second equals approximately 50 miner's inches, or 450 gallons per minute.
3. One cubic foot per second for 24 hours equals approximately 2 acre feet.
4. One acre foot equals enough water to cover one acre exactly one foot in depth, or 43,560 cubic feet.
5. One miner's inch per acre for 100 days equals 3.97 feet deep on the land.
6. One miner's inch per acre for 150 days equals 5.95 feet deep on the land.
7. Five-eighths miner's inch per acre for 100 days equals 2.48 feet deep on the land.
8. Five-eighths miner's inch per acre for 150 days equals 3.72 feet deep on the land.

THE CIPPOLETTI WEIR

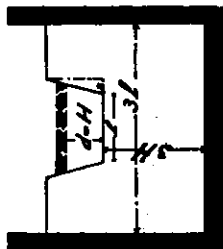
This form of measuring device is illustrated on page 5. It has a thin horizontal crest and thin sides; the weirs notch is wider across the top than at the bottom, the sides having a slope of one inch out to four inches up, or a 1:4 slope.

The essential requirements in setting, and the method of using the weir are as follows:

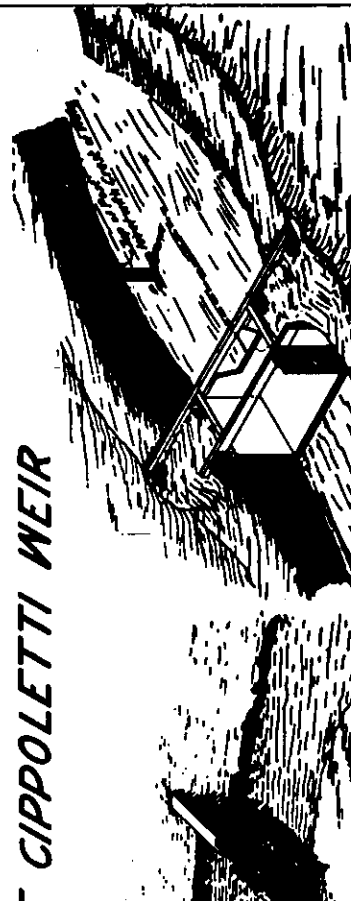
1. It should be set at the lower end of a stilling pool of sufficient length, width and depth to give an even, smooth current with a velocity of approach to the weir of not over one-half foot per second. This pool should be straight and of constant cross section, and the center line should pass through the middle of the weir crest.
2. The crest of the weir should be at right angles to the direction of the flow, and the face of the weir should be perpendicular.
3. The crest of the weir should be level so that the water passing over it will be of the same depth at all points along the crest.
4. The height of the crest above the bottom of the pool should be about three times the depth of the water flowing over it, and the sides of the pool, or box should be a distance from the sides of the crest at least twice the depth of the water passing over it.
5. The length of the crest should be at least three times the depth of the water passing over it, and of even feet, or multiples thereof, to conform to the accompanying tables.
6. The crest should be placed high enough to retard the flow above the weir to the required velocity; and so that the downstream water surface is far enough below the crest that air

Discharge of Cippoletti Weirs in Cubic Feet per Second
Discharge Computed for head in inches, and length of
crest in inches.

LENGTH OF WEIR—INCHES					LENGTH OF WEIR—INCHES				
Head in Ins.	12	18	24	36	Head in Ins.	12	18	24	36
1	.08	.12	.16	.24	6 3/8	.....	2.07	2.76	4.14
1 1/8	.10	.15	.19	.29	6 3/4	.....	2.13	2.84	4.26
1 1/4	.11	.17	.23	.34	6 7/8	.....	2.19	2.92	4.38
1 1/2	.13	.20	.26	.39	7	.....	2.25	3.00	4.50
1 1/2	.15	.22	.30	.45	7 1/8	.....	.....	3.08	4.62
1 3/8	.17	.25	.33	.50	7 1/4	.....	.....	3.16	4.74
1 3/4	.19	.28	.38	.56	7 3/8	.....	.....	3.25	4.87
1 7/8	.21	.31	.42	.62	7 1/2	.....	.....	3.33	4.99
2	.23	.34	.46	.69	7 5/8	.....	.....	3.41	5.12
2 1/8	.25	.38	.50	.75	7 3/4	.....	.....	3.50	5.24
2 1/4	.27	.41	.55	.82	7 7/8	.....	.....	3.58	5.37
2 3/8	.30	.45	.59	.89	8	.....	.....	3.67	5.50
2 1/2	.32	.48	.64	.96	8 1/8	.....	.....	3.75	5.63
2 3/8	.34	.52	.69	1.03	8 1/4	.....	.....	3.84	5.76
2 3/4	.37	.55	.74	1.11	8 3/8	.....	.....	3.93	5.89
2 7/8	.40	.59	.79	1.19	8 1/2	.....	.....	4.01	6.02
3	.42	.63	.84	1.26	8 5/8	.....	.....	4.11	6.16
3 1/8	.45	.67	.89	1.34	8 3/4	.....	.....	4.19	6.29
3 1/4	.47	.71	.95	1.42	8 7/8	.....	.....	4.29	6.43
3 3/8	.50	.75	1.00	1.51	9	.....	.....	4.37	6.56
3 1/2	.53	.80	1.06	1.59	9 1/8	.....	.....	.....	6.69
3 3/4	.56	.84	1.12	1.68	9 1/4	.....	.....	.....	6.84
3 3/4	.59	.88	1.17	1.76	9 3/8	.....	.....	.....	6.98
3 7/8	.62	.93	1.24	1.86	9 1/2	.....	.....	.....	7.12
4	.65	.97	1.29	1.94	9 5/8	.....	.....	.....	7.26
4 1/8	.68	1.02	1.36	2.04	9 3/4	.....	.....	.....	7.40
4 1/4	.71	1.06	1.42	2.15	9 7/8	.....	.....	.....	7.54
4 3/8	.74	1.11	1.48	2.22	10	.....	.....	.....	7.69
4 1/2	.77	1.16	1.55	2.32	10 1/8	.....	.....	.....	7.84
4 3/8	.80	1.21	1.61	2.42	10 1/4	.....	.....	.....	7.97
4 3/4	.84	1.26	1.68	2.52					



CIPPOLETTI WEIR



Month of 19

Water Right Ident.

mount and Feet (cfs)

NOTE—Figures to be given in cubic feet per second for 24-hour periods, or 24-hour second feet. Give name of owner of water rights, not tenant.

DAYS OF MONTH

Name of Present Owner	6	7	8	9	10	11	12	13	14	15	Acres Cultivated	Sec.	Twp.
Middle Valley		1.75	1.67	1.74	3.0		1.66	1.96					
Allison Jewel		.93		1.00			1.65	1.45					
Cambridge Ditch		1.13		1.19			.56	1.06					
Bacon Valley		2.00		1.04			.62	1.12					
Middle Fork		.74		.69			.69	.80					
Haven Ditch		.63		.36			.40	.59					
T J Glenn		.75		.89			.49	1.10					
O S Barn - Green		.00		.00			.29	.73					
1 1 1		1.12		5.1			2.1	5.2					

Month of 19

Wright
Water
Right
Ident.

NOTE—Figures to be given in cubic feet per second for 24-hour periods, or 24-hour second feet. Give name of owner of water rights, not tenant.

Name of Present Owner	DAYS OF MONTH					Acres Cultivated	Sec.	Twp.
	16	15	20	21	22			
<i>Middle Valley</i>		<i>1.91</i>			<i>1.61</i>			
<i>Allison Laurel</i>		<i>.63</i>			<i>.60</i>			
<i>Cambridge Ditch</i>		<i>.79</i>			<i>1.00</i>			
<i>Bacon Valley</i>		<i>1.05</i>			<i>1.02</i>			
<i>Middle Fork</i>		<i>.85</i>			<i>.75</i>			
<i>Haven Ditch</i>		<i>.64</i>			<i>.86</i>			
<i>T J Glenn</i>		<i>.41</i>			<i>.78</i>			
<i>O S Bacon - Glenn</i>		<i>.70</i>			<i>.45</i>			
<i>1 1 1</i>		<i>1.1</i>			<i>1.1</i>			

Amount
and Feet
(cfs)

DAYS OF MONTH

Month of 19

Water
Right
Ident.

Amount
and Feet
(cfs)

NOTE—Figures to be given in cubic feet per second for 24-hour periods, or 24-hour second feet. Give name of owner of water rights, not tenant.

DAYS OF MONTH

Name of Present Owner	Subdivision	DESCRIPTION OF LAND	Acres Cultivated	Sec.	Twp.
Middle Valley					
Allison Jewel					
Cambridge Ditch					
Bacon Valley					
Middle Fork					
Haven Ditch					
T J Glenn					
O S Ben Green					
1 " "					

