/

Woodruff, Utah
Dec. 29, 1945

Ed. H. Watson
State Engineer
State Capitol
Salt Lake City 1, Utah

Dear Mr. Watson,

I am submitting, for your approval, material for my 1945 Commissioners report on the upper Bear River System, including Rich and Summit Co.

Wishing to thank you for your kind Cooperation. I remain,

Yours very truly,

Raymond Rees
Water Commissioner

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JAN 2 1946
State Engineer's Office

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. Washington / Field

Rating table for Wright Transmountain Canal

from , 19 , to , 19

Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
0.00			.00			.00			.00			.00		
.10			.10			.10			.10			.10		
.20			.20			.20			.20			.20		
.30			.30			.30			.30			.30		
.40	0	.05	.40			.40			.40			.40		
.50	.05	.10	.50			.50			.50			.50		
.60	.15	.20	.60			.60			.60			.60		
.70	.35	.30	.70			.70			.70			.70		
.80	.65	.40	.80			.80			.80			.80		
.90	1.05	.55	.90			.90			.90			.90		
1.00	1.60	.65	1.00			1.00			1.00			1.00		
.10	2.35	.90	.10			.10			.10			.10		
.20	3.25	1.00	.20			.20			.20			.20		
.30	4.25		.30			.30			.30			.30		
.40			.40			.40			.40			.40		
.50			.50			.50			.50			.50		
.60			.60			.60			.60			.60		
.70			.70			.70			.70			.70		
.80			.80			.80			.80			.80		
.90			.90			.90			.90			.90		

The above table is not applicable for ice or obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Capacity of ditch 1.22 cfs.

Computed by WOI

Checked by M.S.

Date 11/26/45

March, 1915

U. S. GOVERNMENT PRINTING OFFICE 6—7347

9—207
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington ____ / Field ____ }

3

Discharge measurements of Wright Transmountain Canal ~~River~~ ~~Creek~~

at
near ____, during the year ending September 30, 19____

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating: Shift adj.*	Rating: Percent diff.	Method	Meas. secs.	G. H. change	Time	Meas. rated	REMARKS
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Feet			No.	Feet	Hrs.		
	1942														
1	6/21/42	R. Rees	5.5			1.22	4.32								
	1945							11-22-45							
2	7/17/45	C.O. Glover	4.5			1.18	3.08	∞							
3	8/30/45	do				.90	1.06	∞							
4		Point of zero flow				.40	∞	∞							

* If shifting control method is not used on date of measurement (rating table applied directly), enter a dash under "shift adj.", and show percentage difference between table and measured discharge. If shifting control method is used, enter amount of shift under "shift adj.", and show the percentage difference between rating table and measurement after adjustment is applied.

U. S. GOVERNMENT PRINTING OFFICE 6—6071

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Wright Transmountain Canal 4

1945

File Number { Washington / District

Used rating table dated 11-26-45

Gage Read to ..... Once / Twice a Day by .....

Gage heights used to half tenths between ..... and ..... feet; hundredths below and tenths above these limits.

April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Day
						Dry	0		2.0			1
						"	0		2.0			2
						"	0		2.0			3
						"	0		1.9			4
						"	0		1.9			5
						#1.20	3.2		1.9			6
						1.20	3.2		1.8			7
						1.20	3.2		1.8			8
						1.20	3.2		1.7			9
						1.20	3.2		1.7			10
						1.20	3.2		1.7			11
						1.19	3.2		1.6			12
						1.19	3.2		1.6			13
						1.19	3.2		1.5			14
Dry	0	Dry	0	Dry	0	1.19	3.2		1.5		1.0	15
						1.19	3.2		1.5			16
						1.18 ②	3.1		1.4			17
						1.20	3.2		1.4			18
						1.18	3.1		1.4			19
						1.14	2.7		1.3			20
						1.15	2.8		1.3			21
						1.16	2.9		1.3			22
						1.15	2.8		1.2			23
						1.20	3.2		1.2			24
						1.00	1.6		1.2			25
						.80	.6		1.1			26
						1.02	1.7		1.1			27
						1.02	1.7		1.1			28
						1.08	2.1		1.0			29
						1.08	2.1		1.0			30
	XX				XX	1.06	2.0		1.0		XX	31
	0		0		0		70.8		46.1		30.0	Period
												Year 146.9
	0		0		0		140		91		60	291

Gradual drop during August.

Estimate 1 sec.-ft. for balance of season

Fourth: M.S.

Third: W.U.I. — Computed

Second: — M.S. — Checked

First: 11/26/45 — Date

Quarter: Disch. applied / Disch. checked / Date

Fourth: C.O.G. — G.H. copied

Third: — M.S. — G.H. checked

Second: 11/26/45 — Date

First

Quarter

Water turned in

G.H. 0.40 = Zero Flow

5

S-210

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington ..... Field .....

Rating table for PAULY CANAL

..... from ....., 1945, to ....., 19....

Gauge height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gauge height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gauge height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gauge height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gauge height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
.00			.00			.00			.00			.00		
.10			.10			.10			.10			.10		
.20			.20			.20			.20			.20		
.25	0.00													
.30	0.00	.2	.30			.30			.30			.30		
.40	0.2	.4	.40			.40			.40			.40		
.50	0.6	.6	.50			.50			.50			.50		
.60	1.2	.8	.60			.60			.60			.60		
.70	2.0	.9	.70			.70			.70			.70		
.80	2.9	.9	.80			.80			.80			.80		
.90	3.8	1.0	.90			.90			.90			.90		
1.00	4.8	1.1	.00			.00			.00			.00		
.10	5.9	1.1	.10			.10			.10			.10		
.20	7.0		.20			.20			.20			.20		
.30			.30			.30			.30			.30		
.40			.40			.40			.40			.40		
.50			.50			.50			.50			.50		
.60			.60			.60			.60			.60		
.70			.70			.70			.70			.70		
.80			.80			.80			.80			.80		
.90			.90			.90			.90			.90		

The above table is not applicable for ice or obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by C.E.W.

Checked by I.V.G.

Date 11-7-45

March, 1915

U. S. GOVERNMENT PRINTING OFFICE 6—7347

9—807
(July 1934)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

6

File No. { Washington ..... Field .....

Discharge measurements of PAULY CANAL River Creek

at
near ....., during the year ending September 30, 1945

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating 45 Shift adj.*	Percent dif.	Method	Meas. secs.	G.H. change	Time	Meas. rated	REMARKS
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Feet			No.	Feet	Hrs.		
1945															
10	June 8	C.O. Glover				0.47	.47	"							
11	8	do				0.64	1.55								
12	8	do				0.84	3.04								
13	8	do				.98	5.15 Est.								
14	Sept 5	do				0.35	0.10	"							

* If shifting control method is not used on date of measurement (rating table applied directly), enter a dash under "shift adj.", and show percentage difference between table and measured discharge. If shifting control method is used, enter amount of shift under "shift adj.", and show the percentage difference between rating table and measurement after adjustment is applied.

U. S. GOVERNMENT PRINTING OFFICE 9—8671

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

PAULY CANAL
1945

File Number { Washington 7
District

Used rating table dated 11-7-45

Gage Read to ..... Once / Twice a Day by .....

Gage heights used to half tenths between ..... and ..... feet; hundredths below and tenths above these limits.

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1		0		0		1.0		4.5		.8		.2
2						.9		3.8		.7		.2
3						.8		3.1		.6		.2
4						.7	.76	2.5		.6		.2
5						.6		2.4		.5		.2
6						.5		2.3		.4		.2
7					.47 .47	.5		2.2		.4		.2
8					.97	2.2		2.1		.3		.2
9				0	.97	4.5		2.0		.2		.2
10			Water on	1.1		4.5		1.9		.2		.3
11				2.2		4.6		1.8		.1		.3
12				2.2		4.7		1.7		.1		.3
13				2.2		4.8		1.6	0.32	0.0		.3
14				2.2		4.9		1.5		0		.3
15				2.2	1.02	5.0		1.4		0		.3
16				2.2		4.7		1.3		0		.3
17				2.2		4.4		1.3		0		.3
18			0.72	2.2		4.1	.60 .68	1.6		0		.3
19				2.2		3.7	.65	1.6		0		.4
20				2.0		3.4		1.6		0		.4
21				1.9		3.1		1.5		0		.4
22				1.8		2.7		1.4		0		.4
23			0.66	1.7		2.4		1.4		.1		.4
24				1.6		2.1		1.3		.1		.4
25				1.6		1.7		1.2		.1		.4
26				1.5		1.4		1.2		.1		.4
27				1.4		1.1		1.1		.1	.47	.5
28				1.4	.52	0.7		1.0		.1		.5
29				1.3	1.10	5.9		1.0		.1		.5
30		0		1.2		5.2		.9		.1		.5
31		XXX		1.1		XXXX		.8		.1		XX
Period		0		39.4		86.8		55.0		5.8		9.7
Year												196.7
		0		78		172		109		12		19
Year												390

No Water

Computed
Checked
Date

Disch. applied
Disch. checked
Date

G. H. copied
G. H. checked
Date

COMPUTED BY C.W.
CHECKED BY M.S.

9-210

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington ..... Field .....

Rating table for Deadman Canal

..... *from* ....., 19 ....., *to* ....., 19 .....

Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
.00			.00			.00			.00			.00		
.10			.10			.10			.10			.10		
.20			.20			.20			.20			.20		
.30			.30			.30			.30			.30		
.40			.40			.40			.40			.40		
.50			.50			.50			.50			.50		
.60			.60			.60			.60			.60		
.70			.70			.70			.70			.70		
.80	0.0	.1	.80			.80			.80			.80		
.90	0.1	.1	.90			.90			.90			.90		
.00	0.2	.2	.00			.00			.00			.00		
.10	0.4	.2	.10			.10			.10			.10		
.20	0.6	.3	.20			.20			.20			.20		
.30	0.9	.4	.30			.30			.30			.30		
.40	1.3	.5	.40			.40			.40			.40		
.50	1.8	.6	.50			.50			.50			.50		
.60	2.4	.8	.60			.60			.60			.60		
.70	3.2	.9	.70			.70			.70			.70		
.80	4.1		.80			.80			.80			.80		
.90			.90			.90			.90			.90		

The above table is not applicable for ice or obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by CW.

Checked by WS.

Date 11-9-45

March, 1915

U. S. GOVERNMENT PRINTING OFFICE 6—7347

9—207
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington 9
Field

Discharge measurements of Bear River Deadman Ditch #1 M (Frog Mill Creek) River Creek
at near Evanston, Wyoming, during the year ending September 30, 1945

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.*	Rating Percent diff.	Method	Meas. secs.	G.H. change	Time	Meas. rated	REMARKS
	1945		Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Feet			No.	Feet	Hrs.		
								11/3/45							
4	7/18/45					4.16	0.47	.01							
5	do					4.22	0.66	.01	-.01 mean						
6	do					4.45	1.51	.01							

* If shifting control method is not used on date of measurement (rating table applied directly), enter a dash under "shift adj.", and show percentage difference between table and measured discharge. If shifting control method is used, enter amount of shift under "shift adj.", and show the percentage difference between rating table and measurement after adjustment is applied.

U.S. GOVERNMENT PRINTING OFFICE 5—5671

Rating 11-3-45

9-192-n. July 1937

10 River Creek

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Deadman Canal

At Near Mill Creek, Wyo. for the Year Ending September 30, 1945

Drainage Area ..... Square Miles. Water Stage Recorder Staff Gage Ratio ..... :

Day	October (April) Gage height	October (April) Discharge	November (May) Gage height	November (May) Discharge	December (June) Gage height	December (June) Discharge	January (July) Gage height	January (July) Discharge	February (Aug.) Gage height	February (Aug.) Discharge	March (Sept.) Gage height	March (Sept.) Discharge
1				0		-01 2.0		-01 1.6		-01 .8		-01 .9
2						2.0		1.4	4.28	.8		.9
3						2.0		1.2		.8		1.0
4						2.0		1.0		.8		1.0
5						2.0		.7		.8		1.1
6						2.0		.5		.9		1.1
7						2.0	4.00 4.80	2.1		.9	4.38	1.2
8						2.0		4.0		.9		1.1
9				0		2.0		3.6		.9		1.0
10				.5		2.0		3.2	4.30	.9		.9
11				.8		2.0		2.8		1.5		.7
12				1.1		2.0		2.4		2.1	4.20	.6
13				1.4		2.0		2.0	4.64	2.6		.6
14				1.7		2.0		1.6		2.4		.6
15	Dry	0		# 2.0		2.0		1.2		2.3	4.20	.6
16				2.0		2.0		.8		2.1		.6
17				2.0		2.0	4.16	-01 .5		2.0		.6
18				2.0		2.0		1.0		1.9		.5
19				2.0		2.0	4.75	-01 1.5		1.7		.5
20				2.0		2.0		1.4		1.5		.4
21				2.0		2.0		1.4		1.3		.4
22				2.0		2.0		1.3		1.1		.3
23				2.0		2.0	4.38	1.2	4.32	.9		.3
24				2.0		2.0		1.1		.9		.2
25				2.0		2.0		1.1		.8		.2
26				2.0		2.0		1.0		.8		.1
27				2.0		2.0		1.0		.7	water out	.1
28				2.0		2.0		1.0	4.24	.7		0
29				2.0		2.0		.9		.7		0
30				2.0		-01 1.8		.9		.8		-01 0
31		xx		2.0				-01 .9		-01 .8		
Total		0		39.5		59.8		46.3		38.1		17.5
Mean Second-feet per square mile												
Run-off in inches												
Run-off in acre-feet		0		78		119		92		76		35
Maximum												
Minimum												

Max. Disch. ..... Sec.-ft. at ..... on ..... (G. H. ..... ft.). Max. G. H. ..... ft. at ..... on .....

Min. Disch. ..... Sec.-ft. on ..... (G. H. ..... ft.). Min. G. H. ..... ft. on .....

Calendar Year 201.2

Observers notes: Record based on Observers notes. Most of flow from Deadman Creek.

Observers notes

Water Div. from Mill

* Tore and beaver dam

Total 400

C.W. M.S.

9-210

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington / Field

Rating table for Hovarka Mill Cr Canal

, from , 19 , to , 19

Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
.00			.00			.00			.00			.00		
.10			.10			.10			.10			.10		
.20	1.1	.4	.20			.20			.20			.20		
.30	1.5	.6	.30			.30			.30			.30		
.40	2.1	.8	.40			.40			.40			.40		
.50	2.9	.9	.50			.50			.50			.50		
.60	3.8	1.1	.60			.60			.60			.60		
.70	4.9	1.3	.70			.70			.70			.70		
.80	6.2	1.3	.80			.80			.80			.80		
.90	7.5	1.5	.90			.90			.90			.90		
1.00	9.0	1.5	1.00			1.00			1.00			1.00		
.10	10.5	1.7	.10			.10			.10			.10		
.20	12.2	1.7	.20			.20			.20			.20		
.30	13.9	1.7	.30			.30			.30			.30		
.40	15.6	1.7	.40			.40			.40			.40		
.50	17.3		.50			.50			.50			.50		
.60			.60			.60			.60			.60		
.70			.70			.70			.70			.70		
.80			.80			.80			.80			.80		
.90			.90			.90			.90			.90		

The above table is not applicable for ice or obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by IVG

Checked by MS

Date 11-7-45

March, 1915

U. S. GOVERNMENT PRINTING OFFICE 6—7347

9—207
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington 12
Field

Discharge measurements of Hovarka M.H.Cr. Canal River Creek

at
near during the year ending September 30, 1945

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating 1945 Shift adj.*	Rating 1945 Percent dif.	Method	Meas. secs.	G.H. change	Time	Meas. rated	REMARKS
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Feet			No.	Feet	Hrs.		
1945															Gage Changed
10	July 18	Glover				0.82	5.86	∞							July 18 - old Gage
11	18	do				0.26	1.32								0.58 New gage
12	18	do				0.62	3.99								0.82 Same Site
13	18	do				1.06	10.0	∞							Use +24 Corr.
															to old gage

* If shifting control method is not used on date of measurement (rating table applied directly), enter a dash under "shift adj.", and show percentage difference between table and measured discharge. If shifting control method is used, enter amount of shift under "shift adj.", and show the percentage difference between rating table and measurement after adjustment is applied.

U.S. GOVERNMENT PRINTING OFFICE 0—8671

Hovarka Mill Cr. Canal 1945

13

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File Number { Washington ..... District .....

Used rating table dated 11-7-45

Gage Read to ..... Once / Twice a Day by .....

Gage heights used to half tenths between ..... and ..... feet; hundredths below and tenths above these limits.

April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Day
				raised +2 ft.	3.0		11		3.9		1.6	1
					3.0	.90 ft	11	.60	3.8		1.6	2
					3.0		11		3.8		1.6	3
					3.0		11		3.8		1.6	4
				raised	3.5		11		3.8		1.6	5
					4.0		11 ft		3.8		1.6	6
					4.0	1.00-12 1.18-12	12		3.8	.64	4.2	7
					4.0		16		3.8		3.9	8
					4.0		14		3.8		3.7	9
					4.0		12		3.8		3.4	10
					4.0		10		3.8		2.1	11
					4.0		9.0		3.8	.50	2.9	12
					4.0	.72 ft	8.4	.82	6.5		2.9	13
				.38 ft	4.0		8.0		6.1		2.9	14
			1.0		4.0		7.6		5.7	.50	2.9	15
					4.0		7.2		5.3		2.9	16
					4.0		6.8		4.9		2.9	17
					4.0	.58 old .82 new	6.5		4.5		2.9	18
					4.0		6.5		4.1		2.5	19
					4.0		6.3		3.7		2.5	20
					4.0		6.1		3.3		2.5	21
					4.0		5.9		2.9		2.5	22
					4.0	.76	5.7	.46	2.6		2.3	23
					4.0		5.5		2.4		2.3	24
					4.0		5.3		2.2		2.0	25
					4.0		5.1		2.0		2.0	26
					4.0		4.9		1.8		2.0	27
					4.0		4.7	.32	1.6	Turned out	0	28
				Raised	4.0		4.5		1.6		0	29
				.90 ft	11.		4.3		1.6		0	30
					X X X		4.1		1.6		X X X	31
0		31.0		122.5		252.4		110.1		68.8		584.8
0		61.		243		501		218		136		1160

No water diverted during April

Estimated 1 sec. average during May

Fourth / Third / Second / First / Quarter — Computed / Checked / Date — 11/21/45

Fourth / Third / Second / First / Quarter — Disch. applied / Disch. checked / Date — 11/21/45

Fourth / Third / Second / First / Quarter — G. H. copied / G. H. checked / Date

Period / Year

Note: gage changed July 18

7—210
(Oct. 1936)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

Computed by .....
Checked by .....
Date .....

Rating table for HOVARK EAST FORK CANAL River at BEAR RIVER UTAH

near ....., from ....., 19....., to ....., 19.....

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
.00			.00			.00			.00			.00		
.10			.10			.10			.10			.10		
.20			.20			.20	0.0		.20			.20		
.30			.30			.30	0.20	0.60	.30			.30		
.40			.40			.40	80	0.90	.40			.40		
.50			.50			.50	1.70	1.30	.50			.50		
.60			.60			.60	3.00	1.60	.60			.60		
.70			.70			.70	4.60	1.90	.70			.70		
.80			.80			.80	6.50	2.00	.80			.80		
.90			.90			.90	8.50	2.10	.90			.90		
1.00			.00			1.00	10.6	2.20	.00			.00		
.10			.10			.10	12.8	2.30	.10			.10		
.20			.20			.20			.20			.20		
.30			.30			.30			.30			.30		
.40			.40			.40			.40			.40		
.50			.50			.50			.50			.50		
.60			.60			.60			.60			.60		
.70			.70			.70			.70			.70		
.80			.80			.80			.80			.80		
.90			.90			.90			.90			.90		

The above table is not applicable for ice or obstructed channel conditions. It is based on ..... discharge measurements made during .....

..... and is ..... well defined between gage heights ..... feet and ..... feet. Above gage height ..... feet the rating curve is ..... a tangent, the difference being ..... per tenth.

Table dated 10-15-42

U. S. GOVERNMENT PRINTING OFFICE 6—7839

9—207
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington 15
Field

Discharge measurements of Hovarka East Fork Canal River Creek
at
near , during the year ending September 30, 1945

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.*	Rating Percent dif.	Method	Meas. secs.	G. H. change	Time	Meas. rated	REMARKS
	1945		Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Feet			No.	Feet	Hrs.		
								10	-15	42					
22	6/19/45	C.O. Glover				0.85	7.74	+.01							
23	7/16/45	do				.82	6.91	.00							
24	8/1/45	do				.86	7.05	-.03							
25	8/7/45	do				.85	6.85	-.03							
25A	8/24/45	do				.74	5.44	.00							
26	9/20/45	do				.44	.94	-.03							

* If shifting control method is not used on date of measurement (rating table applied directly), enter a dash under "shift adj.", and show percentage difference between table and measured discharge. If shifting control method is used, enter amount of shift under "shift adj.", and show the percentage difference between rating table and measurement after adjustment is applied.

U. S. GOVERNMENT PRINTING OFFICE 0—8671

Horarka East Fork Canal - Bear River

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

1945

File Number { Washington 16 / District

Used rating table dated 10-15-42

Gage Read to ..... Once / Twice a Day by .....

Gage heights used to half tenths between ..... and ..... feet; hundredths below and tenths above these limits.

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1	Dry	0	Dry	0		0	0.88	8.3	0.86	7.1		1.3
2						0	.90	8.7	.86	7.1		1.3
3						0	.89	8.3	.82	6.3		1.3
4						0	.90	8.5	.85	6.9		1.3
5						0	.89	8.3	.84	6.7	.48	1.3
6						0	.88	8.1	.85	6.9	.48	1.3
7						0	.87	7.9	.86	7.1	.48	1.3
8					Dry	0	.87	7.9	.85	6.9		1.3
9					Dry-15hr 0.47-96hr	0.6	.87	7.9	.87	7.3		1.3
10					0.52	2.1	.88	8.1	.84	6.7		1.2
11					.54	2.4	.88	8.1	.82	6.3		1.2
12					.65	4.0	.88	8.1	.82	6.3		1.2
13					.81	6.9	.89	8.3	.94	8.9		1.2
14					.81	6.9	.86	7.7	.84	6.9		1.1
15					.80	6.7	.84	7.3	.82	6.5		1.1
16					.78	6.3	.81	6.7	.82	6.5		1.0
17					.77	6.1	.80	6.5	.80	6.1		1.0
18					.77	6.1	.79	6.3	.76	5.6		.9
19					.81	6.9	.79	6.3	.76	5.6		.9
20					.85	7.7	.80	6.3	.76	5.6	0.44	.9
21					.85	7.7	.79	6.1	.77	5.7		.9
22					.81	6.9	.80	6.3	.77	5.7		.9
23					.78	6.3	.81	6.5	.77	5.7		.9
24					.76	5.9	.81	6.3	.74	5.4		.9
25					.75	5.7	.79	5.9	.75	5.6		.9
26					.74	5.6	.77	5.6	.73	5.2		.9
27					.71	5.0	.84	6.9	.70	4.6		.9
28					.69	4.6	.89	7.7	.69	4.4		.9
29					67-9hr 88-15hr	6.8	.87	7.3	.67	4.1		.9
30	Dry	0			.92	9.1	.86	7.1	.65	3.8		.9
31			Dry	0			.88	7.5	.49	1.6		
		0		0		126.3		226.8		185.1		32.4

Quarter: First / Second / Third / Fourth — Computed / Checked / Date

Quarter: First / Second / Third / Fourth — Disch. applied / Disch. checked / Date

Quarter: First / Second / Third / Fourth — G. H. copied / G. H. checked / Date

Period Year: 570.6

	0		0		251		450		367		64	1132

9-210

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington ..... Field .....

Rating table for Hilliard East Fork Canal

..... from ....., 19 ....., to ....., 19 .....

Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
.00			2.00	24.5	1.9	.00			.00			.00		
.10			.10	26.4		.10			.10			.10		
.20			.20			.20			.20			.20		
.30			.30			.30			.30			.30		
.40	.7	.7	.40			.40			.40			.40		
.50	1.4	.9	.50			.50			.50			.50		
.60	2.3	1.1	.60			.60			.60			.60		
.70	3.4	1.1	.70			.70			.70			.70		
.80	4.5	1.3	.80			.80			.80			.80		
.90	5.8	1.5	.90			.90			.90			.90		
1.00	7.3	1.5	.00			.00			.00			.00		
.10	8.8	1.6	.10			.10			.10			.10		
.20	10.4	1.7	.20			.20			.20			.20		
.30	12.1	1.7	.30			.30			.30			.30		
.40	13.8	1.7	.40			.40			.40			.40		
.50	15.5	1.7	.50			.50			.50			.50		
.60	17.2	1.8	.60			.60			.60			.60		
.70	19.0	1.8	.70			.70			.70			.70		
.80	20.8	1.8	.80			.80			.80			.80		
.90	22.6	1.9	.90			.90			.90			.90		

The above table is not applicable for ice or obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by I.V.G.

Checked by .....

Date 11-10-45

March, 1915

U. S. GOVERNMENT PRINTING OFFICE 6—7247

9—807
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington 14
Field

Discharge measurements of Bear River - Tri State, Hilliard East Fork River ~~Creek~~ Canal
at
near East Fork Road, during the year ending September 30, 19

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.*	Rating Percent dif.	Method	Meas. nos.	G. H. change	Time	Meas. rated	REMARKS
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Feet			No.	Feet	Hrs.		
	1945							11/10/45							
18	6/13/45	C.O. Glover				1.70	19.2	+.01							
19	7/12/45	do				1.86	22.3	+.02							
20	8/1/45	do				1.61	17.1	-.02							
21	8/7/45	do				1.64	19.2	+.07							Control Cutting
22	9/20/45	Evans				0.85	6.43	+.09							

* If shifting control method is not used on date of measurement (rating table applied directly), enter a dash under "shift adj.", and show the percentage difference between table and measured discharge. If shifting control method is used, enter amount of shift under "shift adj.", and show the percentage difference between rating table and measurement after adjustment is applied.

U. S. GOVERNMENT PRINTING OFFICE 9—3071

9-192-a. July 1937

19

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Hilliard East Fork Canal **River / Creek**

At / Near Bear River **for the Year Ending September 30, 1946**

Drainage Area ..... **Square Miles.** **Water-Stage Recorder** Rating 11-10-45 **Ratio** ..... : .....

Day	April (October) Gage height	April Discharge	May (November) Gage height	May Discharge	June (December) Gage height	June Discharge	July (January) Gage height	July Discharge	Aug (February) Gage height	Aug Discharge	Sept. (March) Gage height	Sept. Discharge
1		0		0		0	1.87	22	1.62	17	1.12	10
2							1.88	23	1.62	17	1.13	11
3							1.93	24	1.62	18	1.32	14
4							1.99	25	1.77	21	1.17	11
5							2.01	25	1.67	19	1.14	11
6							2.03 9hr 1.98 15hr	25	1.67	20	1.11	10
7							1.98	24	1.64	19	1.09	10
8							1.97	24	1.67	20		10
9						0	1.96	24	1.71	20		10
10					Dry 20hr 1.02 9hrs	1.3	1.99	25	1.59	18		10
11					1.00	7.4	1.98	24	1.53	17		9.0
12					.98	7.2	1.97	24	1.63	19		9.0
13					.95	6.7	1.94	24	1.81	22		9.0
14					.95	6.7	1.91	23	1.72	21		9.0
15					.94	6.6	1.88	23	1.68	20		8.0
16					.93	6.4	1.88	23	1.58	18		8.0
17					.98 18hr 1.68 6hrs	9.5	1.83	22	1.53	17		8.0
18					1.69	19.	1.83	22	1.50	17		7.0
19					1.71	19.	1.84	22	1.52	17		7.0
20					1.77	20	1.84	22	1.48	16	0.85	6.4
21					1.80	21	1.86	22	1.40	15		6.4
22					1.83	22	1.86	22	1.32	14		6.4
23					1.87	22	1.86	22	1.26	13		6.4
24					1.86	22	1.85	22	1.28	13		6.4
25					1.81	21	1.84	22	1.42	16		6.4
26					1.80	21	1.80	21	1.32	14		6.4
27					1.79	21	1.75	20	1.28	13		6.4
28					1.75	20	1.63	18	1.24	12		6.4
29					1.75 9hr 1.90 15hr	22	1.60	17	1.23	12		6.4
30		0			1.88	22	1.62	17	1.22	12		6.4
31				0			1.65	18	1.14	11		
Total		0		0		323.8		691		518		251.4
Mean												
Second-feet per square mile												
Run-off in inches												
Run-off in acre-feet		0		0		642		1371		1027		499
Maximum										Total		3539 ac ft
Minimum												

Calendar Year 1784.2 — 3539

Max. G. H. ..... ft. at ..... on ..... (G. H. ..... ft.). Min. G. H. ..... ft. on ..... (G. H. ..... ft.).

Max. Disch. ..... Sec.-ft. at ..... on ..... Min. Disch. ..... Sec.-ft. on .....

COMPUTED BY C.J.L.

CHECKED BY M.S.

9-210

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington ..... Field .....

Rating table for Lannon Canal

..... from ....., 19 ....., to ....., 19 .....

Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
.00			1.00	23.0	3.4	.00			.00			.00		
.10			.10			.10			.10			.10		
.20			.20			.20			.20			.20		
.30			.30			.30			.30			.30		
.40			.40			.40			.40			.40		
.50			.50			.50			.50			.50		
.60			.60			.60			.60			.60		
.70			.70			.70			.70			.70		
.80			.80			.80			.80			.80		
-0.10	.7	.6	.90			.90			.90			.90		
0.00	1.3	.8	.00			.00			.00			.00		
.10	2.1	1.1	.10			.10			.10			.10		
.20	3.2	1.6	.20			.20			.20			.20		
.30	4.8	1.8	.30			.30			.30			.30		
.40	6.6	2.0	.40			.40			.40			.40		
.50	8.6	2.2	.50			.50			.50			.50		
.60	10.8	2.7	.60			.60			.60			.60		
.70	13.5	2.9	.70			.70			.70			.70		
.80	16.4	3.2	.80			.80			.80			.80		
.90	19.6	3.4	.90			.90			.90			.90		

The above table is not applicable for ice or obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by W. U. I.

Checked by B. R. P.

Date 11/27/45

March, 1915

U. S. GOVERNMENT PRINTING OFFICE 30-1 6—7347

9—2017
(July 1945)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington 2 / Field

Discharge measurements of Lannon Canal River / Creek

at / near, during the year ending September 30, 1945.

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating 1945 Shift adj.*	Rating 1945 Percent dif.	Method	Meas. secs.	G.H. change	Time	Meas. rated	REMARKS
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Feet			No.	Feet	Hrs.		
1945								11-27-40							
18	June 20	Glover				.91	21.1	.00							
19	July 16	do				.60	10.7								
20	Aug. 1	do				.43	7.0								
21	7	do				.43	7.5								
					old	.06		gage lowered 0.80 foot							
21a	24	do			New	0.86	1.8	-.80							
		prior to lowering well rocks on control removed and gage dropped .05 (0.94 to 0.89)													
22	Sept. 7	Lowered well and gage. Old 0.89 = 1.42 New gage													
	Sept. 12	Evans				1.36	1.9	-1.29							

* If shifting control method is not used on date of measurement (rating table applied directly), enter a dash under "shift adj.", and show percentage difference between table and measured discharge. If shifting control method is used, enter amount of shift under "shift adj.", and show the percentage difference between rating table and measurement after adjustment is applied.

U. S. GOVERNMENT PRINTING OFFICE 6—8671

9-192-a. July 1937

Rating dated 11-27-45

22

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Lannan Canal

At / Near Bear River for the Year Ending September 30, 1945

Drainage Area ..... Square Miles. Water Stage Recorder ..... Rec

Day	October April		November May		December June		July		Aug.		Sept.	
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge
1		0		0		15	.80	16	0.42 (20)	7.2	.79 -.80	1.2
2				0	0.72	14	.87	19	.42	7.0	.84 -.85	1.2
3			Dry	0	.79	16	.91	20	.40	6.6	.97	2.3
4				0	.75	21	.89	19	.52	9.0	.96	2.2
5				0	.97	22	.96	22	.43	7.2	.93	1.9
6			Dry	0	.89	19	.95	21	.39	6.4	.93 -.85	1.9
7			Dry 4hr 0.76 20hr	.13	.76	15	.93	21	.41 (21)	6.8	.89 -.80	2.0
8			.97	22	.68	13	.87	19	.42	7.0		2.0
9			.92	20	.63	12	.83	17		6.7		2.0
10			1.04	24	.64	12	.83	17	.39	6.4		1.9
11			1.01	23	.68	13	.86	18	.38	6.2		1.9
12			.87 4hr Dry-10hr	11	.66	12	.77	16	.39	6.4	1.36 -1.29 23	1.9
13			Dry	0	.76	15	.72	14	.58	10.		
14				0	.80	16	.69	13	.46	7.8		
15	Dry			0	.77	16	.65	12	.45	7.6		
16			Dry	0	.72	14	.59 (19)	11	.39	6.4		
17			Dry	0	.70	14	.58	10	.36	5.9		
18			Dry	0	.75	15	.64	12	.34	5.5		
19				0	.87	19	.67	13	.35	5.7		
20				0	.01-15hr .13-9hr (18)	21	.68	13	.34	5.5		
21				0	1.11	27	.65	12		4.5		
22				0	1.02	24	.67	13		3.6		
23				0	.90	20	.72	14		2.7		
24				0	.81	17	.74	16	old 0.06 -.80 new 0.86 (19)	1.8		
25			Dry	0	.73	14	.64	12	.38 -.80	1.9		
26			Dry	0	.68	13	.57	10	.88	1.9		
27			Dry	0	.74	15	.51	8.8	.85	1.7		
28			Dry-8hr .76-16	10	.67	13	.45	7.6	.84	1.6		
29			.79	16	.58	10	.44	7.4	.84	1.6		
30		0	.78	16	.61	11	.42	7.0	.84	1.6		1.9
31				16			.46	7.8	.81 -.80	1.4		
Total		0		~~155~~ 171		478		437.6		161.6		56.6

No change in head gates

Mean Second-feet per square mile

Run-off in inches

Run-off in acre-feet

Maximum

Minimum

Aug. 24 lowered gage old gage 0.06' (1) = 0.86 new gage (2) (-0.80' change)

Sept. 7 lowered well and gage old 0.89' (2) = 1.42' new gage (-0.53 change)

Before lowering well and gage rocks removed from control dropping gage from 0.74 to 0.39

Acre ft	0	~~309~~ 339	948	868	321	112

Total 2588

Calendar Year ~~1288.8~~ 2588 ~~2556~~ 2588 ~~2556~~ 2588

Max. Disch. ..... Sec.-ft. at ..... on ..... (G. H. ..... ft.) Max. G. H. ..... ft. at ..... on ..... (G. H. ..... ft.)

Min. Disch. ..... Sec.-ft. on ..... (G. H. ..... ft.) Min. G. H. ..... ft. on ..... (G. H. ..... ft.)

MS.

7—810
(Oct. 1938)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

Computed by Curtis
Checked by Rees
Date Dec. 2, 1942

Rating table for HILLIARD WEST SIDE River at CANAL
near ....., from 1942, 19....., to ....., 19.....

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
.00			.00			0.00			2.00	34.4	6.0	.00		
.10			.10			.10			.10	40.4	6.1	.10		
.20			.20			.20			.20	46.5	6.2	.20		
.30			.30			.30			.30	52.7		.30		
.40			.40			.40			.40			.40		
.50			.50			.50			.50			.50		
.60			.60			.60			.60			.60		
.70			.70			.70			.70			.70		
.80			.80			.80	0	0.4	.80			.80		
.90			.90			.90	0.4	0.9	.90			.90		
.00			.00			1.00	1.3	1.1	.00			.00		
.10			.10			.10	2.4	1.4	.10			.10		
.20			.20			.20	3.8	1.7	.20			.20		
.30			.30			.30	5.5	2.2	.30			.30		
.40			.40			.40	7.7	2.8	.40			.40		
.50			.50			.50	10.5	3.5	.50			.50		
.60			.60			.60	14.0	4.2	.60			.60		
.70			.70			.70	18.2	4.9	.70			.70		
.80			.80			.80	23.1	5.5	.80			.80		
.90			.90			.90	28.6	5.8	.90			.90		

The above table is not applicable for ice or obstructed channel conditions. It is based on ..... discharge measurements made during .....

..... and is ..... well defined between gage heights ..... feet and ..... feet.

Above gage height ..... feet the rating curve is ..... a tangent, the difference being ..... per tenth.

U. S. DEPARTMENT PRINTING OFFICE 6—7866

9—207
(July 1936)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington 24
Field

Discharge measurements of Bear River Tri State - Hillard West Side River / Creek

at / near Gage, during the year ending September 30, 1945.

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.*	Rating Percent diff.	Method	Meas. seq.	G.H. change	Time	Meas. rated	REMARKS
	1945		Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Feet			No.	Feet	Hrs.		
								12	2	42					
17	6/20/45	C.O. Glover				1.50	11.0	+.01							
18	7/16/45	do				1.97	29.9	-.05							
19	8/1/45	do				1.92	28.2	-.03							
20	8/7/45	do				1.17	3.57	+.01							
20A	8/27/45	do				1.13	2.99	+.01							
21	9/12/45	Evans				1.28	5.28	+.01							

* If shifting control method is not used on date of measurement (rating table applied directly), enter a dash under "shift adj.", and show percentage difference between table and measured discharge. If shifting control method is used, enter amount of shift under "shift adj.", and show the percentage difference between rating table and measurement after adjustment is applied.

U. S. GOVERNMENT PRINTING OFFICE 6—3677

Rating 12-2-42

9-152-a. July 1927

25

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Hilliard West Side Canal River Creek

At Near Bear River for the Year Ending September 30, 19 45

Drainage Area ..... Square Miles. Water-Stage Recorder ..... Radio .....

Day	October (April) Gage height	Discharge	November (May) Gage height	Discharge	December (June) Gage height	Discharge	January (July) Gage height	Discharge	February (Aug.) Gage height	Discharge	March (Sept.) Gage height	Discharge
1	Dry	0		0	Dry	0	1.44	8.3	1.92	28	1.12	2.8
2				0		0	1.44-21hrs 1.98-3hrs	11	1.96	30	1.12	2.8
3			1.03	1.7		0	1.98-4hrs 1.24-1hr	8.8	1.94	30	1.13	3.0
4			1.02	1.6		0	1.82	23	2.07-2hrs 1.62-8hrs	30	1.13	3.0
5			1.04	1.8		0	1.83	23	1.66	16	1.12	2.8
6			1.10	2.5		0	1.99	32	1.71-20hrs 1.41-4hrs	17	1.11-8hr 1.50-16hr	8.1
7			1.15	3.2		0	2.01	33	1.16	3.4	1.48	10
8			1.17	3.5		0	2.07	37	1.18	3.7	1.45	9.4
9			1.19	3.8		0	2.05	35	1.22	4.3	1.40	8.0
10			1.17	3.5		0	2.07	36	1.20	4.0	1.34	6.6
11			1.19	3.8		0		34	1.19	3.8	1.32	6.2
12			1.15	3.2		0		33	1.19	3.8	1.28	(53)
13			1.21	4.1		0	2.00	32	1.26	5.0		5.0
14			1.17	3.5		0	2.00	32	1.20	4.0		5.0
15			1.10	2.5		0	1.98	30	1.20	4.0		5.0
16			Dry	0		0	1.97	30	1.18	3.7		5.0
17				0		0	1.95	29	1.16	3.4		4.0
18				0		0	2.11	38	1.16	3.4		4.0
19				0	Dry	0	2.13	39	1.16	3.4		4.0
20				0	1.52	12	2.06	35	1.17	3.5		3.0
21				0	1.55	13	2.01	32	1.17	3.5		3.0
22				0	1.58	14	2.04	34	1.16	3.4		3.0
23				0	1.57	13	2.08	37	1.17	3.5		2.0
24				0	1.57	13	2.12	39	1.17	3.5		2.0
25				0	1.56	13	2.09	37	1.17	3.5		2.0
26				0	1.53	12	2.05	35	1.16	3.4		2.0
27				0	1.50	10	2.00	33	1.13	3.0	Dry	0
28				0		9.4	1.95	30	1.13	3.0		0
29				0	1.45	8.8	1.91	28	1.13	3.0		0
30	Dry	0	Dry	0	1.43	8.3	1.93	29	1.13	3.0		0
31	XX	XXX		0	XX	XXX	1.96	30	1.12	2.8	XX	XXX
Total		0		38.7		126.5		943.1		240.0		117.0
Mean												
Second-feet per square mile												
Run-off in inches												
Run-off in acre-feet		0		77		251		1871		476		232
Maximum												
Minimum												

Calendar Year 1465.3

Total 2907 cfs

Max. G. H. ..... ft. at ..... on .....
Min. G. H. ..... ft. on .....
(G. H. ..... ft.)
Sec.-ft. at ..... on .....
Sec.-ft. on .....
M Disch. .....
Min. Disch. .....

7—210
(Oct. 1936)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

Computed by Curtis
Checked by Rees
Date Dec. 2 1942

Rating table for CHAPMAN CANAL River at BEAR RIVER UTAH
near Utah-Wyo State Line, from ....., 19...., to ....., 19....

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
.00			.00			.00			2.00	79.1	9.1	.00		
.10			.10			.10			.10	88.2	9.3	.10		
.20			.20			.20			.20	97.5	9.5	.20		
.30			.30			.30			.30	107.0	9.0	.30		
.40			.40			.40	0	.8	.40	116.0	10.0	.40		
.50			.50			.50	0.8	1.4	.50	126.0	10	.50		
.60			.60			.60	2.2	1.8	.60	136	10	.60		
.70			.70			.70	4.0	2.2	.70	146	10	.70		
.80			.80			.80	6.2	2.6	.80	156		.80		
.90			.90			.90	8.8	3.1	.90			.90		
.00			.00			1.00	11.9	3.7	.00			.00		
.10			.10			.10	15.6	4.4	.10			.10		
.20			.20			.20	20.0	5.1	.20			.20		
.30			.30			.30	25.1	5.9	.30			.30		
.40			.40			.40	31.0	6.7	.40			.40		
.50			.50			.50	37.7	7.4	.50			.50		
.60			.60			.60	45.1	8.0	.60			.60		
.70			.70			.70	53.1	8.4	.70			.70		
.80			.80			.80	61.5	8.7	.80			.80		
.90			.90			.90	70.2	8.9	.90			.90		

The above table is not applicable for ice or obstructed channel conditions. It is based on ..... discharge measurements made during .....

..... and is ..... well defined between gage heights ..... feet and ..... feet.

Above gage height ..... feet the rating curve is ..... a tangent, the difference being ..... per tenth.

U. S. GOVERNMENT PRINTING OFFICE 6—7828

9—207
(July 1935)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File No. { Washington 27
Field

Discharge measurements of Chapman Canal at Utah-Wyo. State Line River Creek

at
near , during the year ending September 30, 19

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.*	Rating Percent dif.	Method	Meas. secs.	G. H. change	Time	Meas. rated	REMARKS
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Feet			No.	Feet	Hrs.		
	1944								2-2-42						
12	10/18/44	Robison				1.02	7.54								
12a	11/15/44	do				1.36	26.5								
	1945														
13	2/19/45	do				.84	Est. 25				Ice				
14	2/22/45	do				—	Est. .25				"				
15	3/9/45	do				1.80	24.6				Ice				
16	4/7/45	Glover				1.62	44.9	-.02			No	ice			
17	4/9/45	Glover				2.62	112	-.26			Brush Dam				
18	4/12/45	do				1.46	37.0	+.03							
19	4/18/45	do				1.42	34.3	+.03							
20	6/6/45	do				2.15	94.5	+.02							
21	7/2/45	do				1.31	31.4	+.10							
22	7/9/45	do				1.28	28.8	+.08							
23	7/21/45	do				.97	11.6	+.02							
24	8/2/45	Glover & Evans				.83	5.97	-.06							
25	8/11/45	Evans				1.06	13.3	-.02							
26	8/25/45	do				0.73	2.48	-.11							
27	9/24/45	do				.90	6.85	-.07							

* If shifting control method is not used on date of measurement (rating table applied directly), enter a dash under "shift adj.", and show percentage difference between table and measured discharge. If shifting control method is used, enter amount of shift under "shift adj.", and show the percentage difference between rating table and measurement after adjustment is applied.

U. S. GOVERNMENT PRINTING OFFICE 8—8671

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 413
Logan, Utah
December 26, 1945

FOR VICTORY BUY UNITED STATES WAR BONDS AND STAMPS

Mr. Raymond Reese
Woodruff, Utah

Dear Mr. Reese:

Enclosed are the following records for canals and river gaging stations in your area:

Bear River near Woodruff, Utah - Daily discharge in second-feet April 1 to September 30, 1945.

Bear River near Randolph, Utah - Daily discharge in second-feet April 1 to September 30, 1945.

A State of Utah original form, print of rating table, print of discharge measurements, and print of gage heights and computations of daily discharges for the following canals during the 1945 irrigation season are also included:

Wright Transmountain Canal
Pauly Canal
Deadman Canal
Hovarka Mill Cr. Canal
Hovarka East Fork Canal
Hilliard East Fork Canal
Lannon Canal
Hilliard West Side Canal
Chapman Canal
Francis Lee Canal
Bear River Canal
Neville Canal
Rees Land & Livestock Canal
Booth Canal
Randolph-Woodruff Canal
Crawford-Thompson Canal
Dykens Canal
Randolph Sage Creek Canal
McMinn Canal
Enberg Canal
B. Q. West Side Canal

JAN 2 1946
State Engineer's Office

Sincerely yours,

W. V. Iorns

W. V. Iorns
Project Engineer

Encls.