9—207
(Sept. 1952)

(1.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. { Washington / Field

Discharge measurements and gage readings of Santa Clara River below Pine Valley, during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating: Shift adj.	Rating: Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet			
	July														
	7	W. McConkie					2.31			.6				G	No gage
	8	ditto				0.62	2.13			.6			2:15 p.m.	G	Established temp. gage; G.H. zero flow = 0.17 ± 03
	9	ditto				0.61	1.87			.6			8:40 a.m.	G	Diversions in Pine Valley were decreased while this meas. was being made.
	10	W. Cannon				0.71	3.3						3:05 p.m.		From rating
	11	W. McConkie				0.72	3.48			.6			8:40 a.m.	G	
	12	W. Cannon				0.72	3.5						2:00 p.m.		From rating
	13	W. McConkie				0.71	3.3						8:50 a.m.		From rating
	14	W. Cannon				0.72	3.5								From rating
	15	W. McConkie				0.73	3.6						8:50 a.m.		From rating
	16	W. Cannon				0.72	3.5								From rating

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2.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

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

Daily mean
Discharge ~~measurements~~ of Santa Clara River near Central (U. S. G. S. gage), during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	Hr		
	July														
	7					1.16	2.8								
	8					1.16	2.8								
	9					1.17	3.0								Central Canal decreased at 9:45 a.m.
	10					1.20	3.6								
	11					1.23	4.5								
	12					1.22	4.2								
	13					1.22	4.2								
	14					1.22	4.2								
	15					1.22	4.2								
	16					1.22	4.2								

Flow in Central Canal was held constant July 9-15

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(3.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

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

Discharge measurements and gage readings of Power Co. Canal at Head near Central, during the year ending Sept. 30, 1955

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet			
	July														
	7	W. McConkie					6.54			.6			2:15 p.m.		
	8	ditto				0.35	6.76			.6			4:00 p.m.		
	9	ditto				0.36	6.99			.6			11:00 a.m.		
	10	W. Cannon				0.37	7.3						2:10 p.m.		from rating
	11	W. McConkie				0.40	8.08			.6			10:40 a.m.		
	12	W. Cannon				0.40	8.2						12:20 p.m.		from rating
	13	W. McConkie				0.41	8.70			.6			10:40 a.m.		
	14	W. Cannon				0.40	8.2								from rating
	15	W.McConkie				0.41	8.5						12:25 a.m.		from rating
	16	W. Cannon				0.41	8.5								from rating

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(4.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

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

Discharge measurements of Power Co. Canal 1/2 mi. above No. 2 Penstock near Veyo, during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet			
	July														
	7														
	8														
	9														
	10														
	11	W. McConkie					7.14			.6			12:05 p.m.	G	
	12														
	13	W. McConkie					8.48			.6			12:00 noon	G	
	14														
	15	W. McConkie					8.10			.6			12:10 p.m.	G	
	16														

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(5.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

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

Discharge measurements and gage readings of Power Co. Canal below No. 2 Power Plant, near Veyo, during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet			
	July														
	7	W. McConkie				0.26	5.4			.6					Flow entering canal from river channel just below power plant; above gage 0.46 cfs metered
	8	W. McConkie				0.28	6.04			.6			5:35 p.m.		0.5, est.
	9	ditto				0.30	6.92			.6			12:20 p.m.		0.5, est.
	10	W. Cannon				0.32	7.5						1:30 p.m.		0.5, est.
	11	W. McConkie				0.33	7.78			.6			1:45 p.m.		0.5, est.
	12	W. Cannon				0.35	8.6						11:35 a.m.		0.75, est.
	13	W. McConkie				0.35	8.6						12:20 p.m.		1.0, est.
	14	W. Cannon				0.35	8.6								1.0, est.
	15	W. McConkie				0.36	9.0						12:35 p.m.		1.0, est.
	16	W. Cannon				0.36	9.0								

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(Sept. 1952)

(6.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. Washington
Field

Daily mean Power Co. recorder
/ Discharge ~~XXXXXXXXXX~~ of record of Power Co. Canal below No. 2 Power Plant, near Veyo, during the year ending Sept. 30, 1955

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	Hr		
	July														
	7					0.30	6.8								
	8					0.30+	6.8								
	9					0.30	6.8								
	10					0.32	7.5								
	11					0.34-	8.2								
	12					0.35-	8.6								
	13					0.34	8.2								
	14					0.34+	8.2								
	15					0.36 12 hrs									

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(Sept. 1962)

7.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

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

Discharge measurements of flow pumped from Santa Clara River to Power Co. Canal, near Veyo, during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	Hr		
	July 7	W. McConkie					1.47								Pump stopped on July 9, this flow then continued down the river channel.

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(Sept. 1952)

7A.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. Washington
Field

Discharge measurements of Veyo Canal near Veyo, during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	Hr		
	July 7						1.56								

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(8.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. { Washington / Field

Discharge measurements and gage readings of Power Co. Canal at Veyo-St. George highway, during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating: Shift adj.	Rating: Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	xx		
	July														
	7	W. McConkie				0.26	5.78			.6			7:00 p.m.	G	1.47 being pumped into canal, Veyo canal diverting
	8	ditto				0.26	6.47			.6			7:00 p.m.	G	pump operating Veyo Canal diverting
	9	ditto				0.28	6.6						2:15 p.m.		Veyo canal decreased about 0.5 cfs @ 1:30 p.m.
	10	W. Cannon				0.28	6.6						12:40 p.m.		pump water off after this meas. pump off. Veyo canal off.
	11	W. McConkie				0.30	7.4						2:30 p.m.		pump off. Veyo canal off.
	12	W. Cannon				0.34	8.9						11:20 a.m.		Pump & Veyo canal both off
	13	W. McConkie				0.33	8.5						1:45 p.m.		Pump off. Veyo canal diverting about 0.50 cfs.
	14	W. Cannon				0.34	8.9								Pump off. Veyo canal diverting about 0.50 cfs
	15	W. McConkie				0.34	8.9						1:50 p.m.		Pump off. Veyo canal about 0.50 cfs.
	16	W. Cannon				0.34	8.9						11:20 a.m.		Pump off. Veyo canal 0.45 a 1 p.m.

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(9.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. Washington
Field

Discharge measurements and gage readings of Power Co. Canal at Upper Sand Cove Reservoir, during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	Hr		
	July														
	9	W. McConkie				0.67	6.60			.6			3:05 p.m.	G	
	10	W. Cannon				0.57							12:25 p.m.		
	11	W. McConkie				0.63	7.31			.6			3:05 p.m.	G	
	12	W. Cannon				0.69							11:05 a.m.		
	13	W. McConkie				0.66	8.22			.6			2:00 p.m.	G	
	14	W. Cannon				0.67									
	15	W. McConkie				0.69	8.48			.6			2:00 p.m.	G	
	16	W. Cannon				0.68									
	17	W. Cannon				0.65									

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(10.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

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

Discharge measurements and gage readings of No. 1 Power Plant tailrace at Gunlock, during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet			
	July														
	7	W. McConkie				0.34	5.60			.6			8:15 p.m.	G	10 ft. Rect. weir, with very little pool
	8	ditto				0.34	5.59			.6			8:00 p.m.	G	
	9	ditto				0.34	5.6						3:55 p.m.		
	10	W. Cannon				0.34	5.6						11:40 a.m.		
	11	W. McConkie				0.34	5.6						3:40 p.m.		
	12	W. Cannon				0.34	5.6						10:30 a.m.		
	13	W. McConkie				0.34	5.6								
	14	W. Cannon				0.37	6.5								
	15	W. McConkie				0.37	6.49			.6			4:00 p.m.	G	Power plant operator says flow was increased about 7 a.m. July 14.
	16	W. Cannon				0.37	6.5								

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(Sept. 1962)

(11.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. Washington
Field

Discharge measurements of Gunlock Town Ditch at weir near Gunlock, during the year ending Sept. 30, 1955

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet			
	July 9	W. McConkie					0.82			.6			3:20 p.m.		Flow reduced by Water Commissioner after this measurement.

(12.)

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

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

Discharge measurements of Gunlock Fields stream at weir near Gunlock, during the year ending Sept. 30, 1955

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating: Shift adj.	Rating: Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	XHX		
	July 9	W. McConkie					1.31			.6			5:10 p.m.		Flow reduced by Water Commissioner after this measurement

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(13.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. { Washington / Field

Discharge measurements of Santa Clara River above Plant No. 1 at Gunlock, during the year ending Sept. 30, 19 55

No.	Date	Made by--	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	XX		
	July														
	7														
	8														
	9	W. McConkie					0.5			Est.					Pump at Veyo stopped July 9 should cause this stream to increase
	10														
	11	ditto					0.70			.6			4:35 p.m.	G	Pump stream now coming through
	12														
	13	ditto					0.94			.6			4:55 p.m.	G	0.65 cfs diverted below confluence with plant No. 1
	14														
	15	ditto					1.26			.6			5:35 p.m.	G	
	16	W. Cannon					1.5			Est.					
	17	W. Cannon					1.5			Est.					

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(14.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. { Washington
Field

Daily discharge of Santa Clara River above Winsor Dam, near Santa Clara (U.S.G.S. station) during the year ending Sept. 30, 1955

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating: Shift adj.	Rating: Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	Hr		
	July														
	7						5.3								
	8						6.0								
	9						5.7								
	10						6.0								
	11						6.7								
	12						5.7								
	13						5.3								Average July 7-13
	14						6.7								5.81 cu. ft.
	15						8.1								
	16						7.7								
	17						8.4								Average July 15-17
															8.02 cu. ft.

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(15)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. { Washington / Field

Discharge measurements and gage readings of Santa Clara River at 4 mile Diversion, during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating: Shift adj.	Rating: Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet			
	July														
	7														
	8	W. McConkie				0.60	5.4			Parshall Flume			8:30 a.m.		
	9	ditto													No. flow in reservation diversion
	10	W. Cannon													Reservation diversion began in A. M.
	11	W. McConkie					4.44			.6			7:10 p.m.		1.0 cfs diverted at Reservation
	12	W. Cannon													0.5 cfs Reservation diversion
	13	W. McConkie					4.05			Parshall Flume			6:35 p.m.		0.25 cfs Reservation diversion
	14	W. Cannon					4.37			ditto					No Reservation diversion
	15	W. McConkie					6.00			ditto			6:45 p.m.		Reservation 0.5 cfs @ 6:20 p.m.
	16	W. Cannon				0.60	5.4			ditto			9:30 a.m.		Reservation 0.35 cfs @ 9:45 a.m.
	16	W. McConkie				0.60	5.4			ditto			5:30 p.m.		Reservation 0.5 cfs @ 4:00 p.m.
	17	W. Cannon													Reservation 0.4 cfs @ 9:50 a.m.

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(16.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. Washington
Field

Discharge measurements and gage readings of Santa Clara South Ditch, during the year ending Sept. 30, 1955

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	XX		
	July														24 inch submerged weir with insufficient pool
	7														
	8														
	9														
	10														
	11														
	12														
	13	W. McConkie				0.23	0.75			.6			7:10 p.m.		
	14	W. Cannon				0.42	1.75						8:55 a.m.		
	15	W. McConkie				0.54	2.55			.6			7:15 p.m.		Geo. Graff, Water Comm. says stream increased about 10 a.m. today
	16	W. McConkie				0.49	2.2						5:45 p.m.		
	17														

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(Sept. 1952)

(17)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. Washington / Field

Discharge measurements and gage readings of Santa Clara Town Ditch, during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet			
	July														4 ft Rec. weir with insufficient pool
	7														
	8	W. McConkie				0.25	2.2						11:15 a.m.		
	8	ditto				0.26	2.3						9:30 p.m.		
	9	ditto				0.20	1.55			.6			8:10 p.m.		
	10	W. Cannon				0.25	2.2						9:20 a.m.		
	11	W. McConkie				No flow							7:30 p.m.		2.2 cfs being used at 3 mi. field @ 8:50 p.m.
	12	W. Cannon													
	13	W. McConkie				No flow							7:40 p.m.		
	14														
	15														
	16	W. McConkie				No flow							6:00 p.m.		
	17	W. Cannon				0.25	2.2								

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(18.)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. Washington
Field

Discharge measurements of St. George Fields North ditch, during the year ending Sept. 30, 1955

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet			
	July														3 ft. Parshall flume properly set with gage reading in sec. ft.
	7														
	8	W. McConkie					1.75						11:00 a.m.		All discharges shown include 0.7 cfs being pumped from well at west edge of town of Santa Clara.
	8	ditto					1.75						9:45 p.m.		
	9	ditto					1.50						8:35 p.m.		
	10	ditto					1.9						8:20 a.m.		
	11	ditto					1.25						8:15 p.m.		
	12						1.5						8:00 a.m.		
	13	W. McConkie					1.6						7:55 p.m.		
	14						1.65						8:10 a.m.		
	14						1.5						9:00 p.m.		
	15						2.0						7:55 p.m.		
	16						2.2						8:50 a.m.		
	16						1.75						6:10 p.m.		
	17						1.25						9:30 a.m.		

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19c

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)

File No. { Washington / Field

Daily

Discharge measurements of Santa Clara River near St. George (U. S. G. S. gage), during the year ending Sept. 30, 19 55

No.	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating Shift adj.	Rating Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	Hr		
	July 7						0.4								
	8						.4								
	9						.3								
	10						.3								
	11						.3								
	12						.3								
	13						.3								
	14						.3								
	15						.3								
	16						.3								
	17						.2								