REPORT OF DISTRIBUTION OF WATER SUPPLY

of

ASHLEY CREEK,
POT CREEK, and BRUSH CREEK

for the

YEAR - 1962

DAVID R. RASMUSSEN, COMMISSIONER

INDEX

	Page
Letter of Transmittal	1
Acknowledgements	2
Irrigation Season	3
Water Supply and Distribution	3
Deputy Commissioner	3
Measuring Devices	3
Summary of Water Delivered	4
Ashley Creek Section	5-23
Summary of Activities on Ashley Creek	5-6
Recommendations on Ashley Creek	6
Court Order for Ashley Creek Distribution during 1962	7-8-9
Budget for Vernal Area Distribution System for 1962	10
Collection Break Down	11
Proposed Water Delivery Schedule	12
U.S.G.S. Record of Ashley Creek	13
U.S.G.S. Record of Dry Fork below springs	14
U.S.G.S. Record of Dry Fork near mouth	15
Ashley Valley Reservoir Co. Delivery for 1962 Irrigation Season	16
Daily Discharge for Stanaker Ditch	17
Daily Discharge for Highline Canal	18
Daily Discharge for Upper Canal	19
Daily Discharge for Dodds Ditch	20
Daily Discharge for Rock Point Canal	21
Daily Discharge for Island Ditch	22
Daily Discharge for Central Canal	23
Pot Creek Section	24-27
Summary of Commissioner's Activities on Pot Creek	24-25-26
U.S.G.S. Records for Pot Creek	27
Brush Creek Section	28-38
Rotation Schedule for Brush Creek	28
Brush Creek Recommendations for 1963	29
Little Brush Creek Data	30
U.S.G.S. Record on Big Brush Creek	31
Daily Discharge for Bert Hatch Ditch	32
Daily Discharge for Shiner Bros. Canal	33
Daily Discharge for Howard Ainge Ditch	34
Daily Discharge for Sam Sessions Ditch	35
Daily Discharge for Sunshine Canal	36
Daily Discharge for Ward Murray, Martin Evans, Leon Ainge Ditch	37
Daily Discharge for Burn's Bench Divider	38

Vernal, Utah
January 28, 1963

LETTER OF TRANSMITTAL

Mr. Wayne D. Criddle
State Engineer
Salt Lake City, Utah

Dear Sir:

In accordance with the authority granted by your appointment I submit herewith the report on the distribution of the waters of the Ashley Creek, Brush Creek, and Pot Creek River Systems for the year 1962.

Respectfully yours,

David R. Rasmussen

David R. Rasmussen
Water Commissioner

ACKNOWLEDGEMENTS

The sincere appreciation of the Water Commissioner is expressed to Mr. Wayne D. Criddle, State Engineer, and to his fine staff of personnel. Special thanks goes to Mr. Donald Norseth, Distribution Engineer and Mr. Robert Guy, District Engineer for the Uintah Basin Area, for their help and cooperation in distribution of Ashley Creek during my first year.

For the support, advice, and help gained from the Executive Committees of the Ashley Creek, Brush Creek, and Pot Creek River Systems, an expression of thanks and appreciation is made.

To Dayl Webb and his staff at the Vernal U. S. G. S. office and all others who helped furnish the record data included in this report, the Commissioner expresses his appreciation.

IRRIGATION SEASON

For the first time since becoming Commissioner in Ashley Valley, we experienced a better than average water year.

Distribution began on Pot Creek during the early part of May and continued on until June 25, at which time Pot Creek had stopped running any measurable amount of water. The water was beneficially used by all parties involved on Pot Creek, both for irrigation of farmland and stockwatering.

Distribution on Brush Creek started on June 1, 1962. Before this time the flow of Brush Creek had been great enough that all users were able to take all the water they could use and a major portion of the flow still continued on into Green River. Users on the upper and middle parts of the Creek were hampered by floods from time to time, which caused extensive damage to diversion works and ditches.

Distribution on [redacted] began on July 9, 1962, after I was appointed Commissioner for the remainder of 1962. Distribution of Ashley Creek waters as well as reservoir waters, was carried out through the irrigation season and up to the end of November. Records indicate that a large amount of water flowed on down Ashley Creek and into Green River unused and unavailable for storage, due to the Steinaker Feeder Canal still not being ready to divert water to the newly completed Steinaker Reservoir.

WATER SUPPLY AND DISTRIBUTION

Since this report will essentially be three reports in one cover, the supply and distribution of water will be delt with separately in each section of this report.

DEPUTY COMMISSIONER

Joe Calder of Vernal, Utah, was hired as Deputy Commissioner on July 15, 1962. He continued on until September 30, 1962. His help in making daily visits and regulations was invaluable since our three systems take in so many miles of travel to cover them. It is recommended, however, that in the future a Deputy be hired by June 1, and carried on through the end of August since this is the heavy work period for distribution in this area.

MEASURING DEVICES

There is still a need for more and improved measuring devices on all three of our systems in the Ashley Valley Area. A need exists for automatic recorders on many of our major canals. This type of recorder would insure more accurate distribution, since it is impossible to keep up with fluctuations which exist on all the streams from hour to hour, as well as the reservoir water coming into the common source on Ashley Creek. More detailed recommendations concerning measuring devices are contained in the content of this report.

SUMMARY OF WATER DELIVERED IN THE ASHLEY VALLEY IRRIGATION SYSTEMS FOR SEASON OF 1962

Ashley Creek

1. Actual water delivered by Commissioner taken from records: 23,603.84 ac.ft.
2. Estimated delivery taken from U.S.G.S. records prior to July 7, 1962 49,472.00 ac.ft.
3. Estimated for Dry Fork without the aid of U.S. G.S. records for period of stream flow: April 23 through Aug. 8, 1962 3,930.00 ac.ft.

Brush Creek

1. Actual water delivered by Commissioner between June 1 and end of irrigation season. 9,958.92 ac.ft.
2. Estimated delivery taken from U.S.G.S. records prior to June 1, 1962. 15,000.00 ac.ft.

Pot Creek

1. Water delivered by Commissioner taken from records and U.S.G.S. records: 347.10 ac.ft.
2. Matt Warner Res. filled to capacity
3. Crouse Res. filled to capacity
4. Massey Res. filled to capacity (Offield Res.)
5. William Karren Res. filled to capacity

Dry Fork Data

In comparing the records from the U.S.G.S. recording station in Dry Fork below the springs and the records from the station at the mouth of Dry Fork near Merkley's Park we find that a difference of 3,650 acre feet exists. This would be a relative figure as to the amount of water used by Dry Fork water users. This figure does not, however, represent accurately the amount of water diverted since a large portion of all the diverted water returns to the creek channel. Many of the fields along this narrow canyon have very short runs for the water used in irrigation.

At the present time there are no measuring devices in the Dry Fork area. In the past, users have taken what water they could beneficially use while it lasted. The normal run for Dry Fork is around three months for the upper users and a week or two longer for those on the lower end. This difference is due to numerous smaller springs continuing to flow after the main springs in the canyon have stopped. Most of these smaller springs are below the bridge in Dry Fork town.

SUMMARY OF ACTIVITIES ON ASHLEY CREEK DISTRIBUTION
IRRIGATION SEASON 1962

Distribution by David Rasmussen, the appointed Deputy Commissioner, was started on July 9, 1962. Distribution at this time was concerned only with the primary users of Ashley Creek, since the stream flow was below an amount large enough to supply any secondary rights. (227.0 c.f.s., according to the U. S. G. S. gaging station at the sign of the Main.) The available water was distributed on a percentage basis as follows:

Steinaker Ditch	02.0%
Upper Canal	36.3%
Rock Point Canal	19.8%
Dodds Ditch	01.0%
Island Ditch	07.4%
Central Canal	33.5%
Total	100.0%

Distribution of water going to the Rock Point Canal, Dodds Ditch, Island Ditch, and Central Canal was very difficult to accomplish, due to the obsolete splitter at the head of these canals. Division of water was accomplished by adding or adjusting slabs and boards across the headgate. Due to fluctuations in the stream flow, it was found to be impossible to set a given canal to any exact amount and expect it to stay constant. After considerable practice, we were able to set the above mentioned canals usually to within 1.0 c.f.s., and providing a fisherman or someone else did not remove said boards, it would stay fairly close for a 24-hour period. If accurate distribution is to be carried out, this structure must be repaired or replaced.

The diversion works at the head of the Upper and Highline Canals are in good shape and serve their function very well. This is the sort of device that should be installed at the head of the lower canals.

Due to the inadequate diversion works at the head of the Steinaker Ditch, no measurable amount of water could be diverted after August 15, 1962. This diversion works needs to be repaired in order to insure the delivery of the 2% of the natural flow of Ashley Creek for the Steinaker Ditch.

Ashley Valley Reservoir Company water was delivered at the rate of 1.0 c.f.s. for 2½ hours per share. Delivery began on July 21 and continued throughout the summer as the water was called for. This water was figured apart from the Ashley Creek water. A daily discharge sheet for each canal will show the reservoir water delivered daily. As various ditch riders called for water, Mr. John McKeachnie, the Reservoir Company Water Master, was in turn contacted by the Commissioner. The delivery of the Reservoir water was thus carried out through the co-ordinating efforts of the Commissioner. A conveyance loss of 10% was charged from the reservoirs to the head of each canal. This part of the distribution went very smooth for the most part. Each morning the Commissioner would meet with the canal ditch riders and tell them how much reservoir water was available and also how much their portion of the Ashley

Creek water was. If the canal riders did not show up, the canal was set as near as physically possible and a note was sometimes left concerning the reservoir water.

The Dry Fork of Ashley Creek began flowing from the springs on April 23, 1962. This represents a date somewhat eariler than usual for the water to begin. The flow was very high for around a month and then began tapering off until it stopped flowing on August 8, 1962. Farmers in the Dry Fork area reported a better than normal run of water on this seasonal stream.

Mosby Irrigation Company diverted the Dry Fork of Ashley at Blanchett Park on August 16, 1962. They were actually entitled to it eight days sooner, but held off due to repair work being done on their canal. The water was turned back to the natural channel on November 13, 1962, after a fairly good run of water.

RECOMMENDATIONS FOR 1963 IRRIGATION SEASON

1. A meeting of the Ashley Creek water users should be held prior to distribution to iron out any problems that have developed during the past year.

2. A close study of records from the past to determine channel loss in Ashley Creek and in the various canals should be made and continued as more information becomes available.

3. A closer working relationship with the Bureau of Reclamation should be established in order that maximum storage of excess water may be obtained.

4. Headgates and measuring devises should be installed and repaired wherever needed. Demands should be uniform for all users along this line. (The dividing weir at the head of the Rock Point, Dodds, Island, and Central Canals, is in very poor condition. This is a very important part of the system and should be replaced or repaired before any distribution in 1963.)

5. The Ashley Valley Reservoir Company should work in closer contact with the commissioner to more efficiently distribute the reservoir water.

6. A meeting of the executive officers of the system should be called whenever deemed necessary in order that any problems may be worked out as they come up.

7. It is recommended that the Mosby Irrigation Company install an adequate control gate and measuring device at Blanchett Park. The present headgate is unsatisfactory in that it is impossible to shut off the water.

IN THE FOURTH JUDICIAL DISTRICT COURT OF THE STATE OF UTAH

IN AND FOR UINTAH COUNTY

EBENEZER G. DEFRIEZ, et al, Plaintiffs, vs. ASHLEY CENTRAL IRRIGATION COMPANY, et al, Defendants, and ASENITH CHADWICK, et al, Intervenors, and HIGHLINE CANAL COMPANY, ASHLEY VALLEY RESERVOIR COMPANY, DRY FORK IRRIGATION COMPANY, PITT DITCH COMPANY, DUAYNE T. JOHNSON, MORGAN MERKLEY, WILLIAM H. HULLINGER, CLARENCE E. JONES, HENRY PELTIER and GLEE C. PELTIER, VIRTUS McCONKIE and SADIE A. McCONKIE, ARUS CALDWELL, LAWRENCE CALDWELL, and UNITED STATES BUREAU OF RECLAMATION. Defendants.	DECREE ADDING PARTIES AND ORDER APPOINTING WATER COMMISSIONER Civil No. 3197

The Motion of the Ashley Upper Irrigation Company, the Colton Ditch Company, the Steinaker Ditch Company, the Ashley Central Irrigation Company, the Hardy Ditch Company, the Island Ditch Company, the Dodds Ditch Company, and the Rock Point Irrigation Company representing the Plaintiffs and Defendants, or their successors in interest, in the above entitled action, hereinafter referred to as the owners of the primary water rights of Ashley Creek and its tributaries requesting that other users and persons claiming the right to use water out of Ashley Creek and its tributaries be made parties defendant to this action and that the State Engineer be appointed as Water Commissioner of Ashley Creek and its tributaries to administer and distribute the waters thereof in accordance with the Decree of this Court in this case and the respective rights of the parties hereto, came on regularly for hearing this 15th day of May, 1962.

And it appearing to the Court that all of the parties above mentioned have been given due and legal notice of the said Motion in the manner and for the time required by the laws of the State of Utah.

And it further appearing that this Court has jurisdiction of the waters of Ashley Creek and its tributaries by reason of the Decree entered in this case on November 17, 1897, and to direct the administration and distribution of the waters of said Ashley Creek.

And it further appearing that since the date of the said Decree, the parties hereto, who were not parties to the original action, have acquired, developed or claim a right to use some of the waters of Ashley Creek and its tributaries and that it is necessary that all parties having, or claiming rights in and to the waters of Ashley Creek or its tributaries be made parties to this action in order that all rights of the respective parties may be protected.

And it further appearing that in order to properly protect the rights of all parties hereto, administer and distribute the waters of Ashley Creek and its tributaries in a proper manner that it is necessary to have a Water Commissioner of Ashley Creek.

And it further appearing that the State Engineer of the State of Utah is competent and qualified to act as Water Commissioner of Ashley Creek and that due to the diversity of interest in the said waters, it is for the best good and welfare of all users thereof that the State Engineer be appointed as Water Commissioner of Ashley Creek.

NOW, THEREFORE, IT IS HEREBY ORDERED, ADJUDGED AND DECREED:

1. That the Distribution Engineer of the State Engineer's Office of the State of Utah, is hereby appointed Commissioner of the waters of Ashley Creek and its tributaries which said creek is a tributary of Green River in Uintah County, State of Utah, for the period of one (1) year beginning May 15, 1962 or until further order of this Court and he is hereby directed to administer and distribute the waters of said Ashley Creek by himself or duly appointed deputies to the persons entitled to the use thereof in accordance with the laws of the State of Utah and the Decrees of this Court by which reference are made a part hereof.

2. That the said Commissioner shall name and appoint such deputy or deputies as he may need in distributing the water involved in this matter and he is hereby authorized to pay reasonable salary or wages and automobile mileage to such persons as he may employ in carrying out the provisions of this Decree and Order. Said Commissioner shall immediately submit for the approval of this Court, an estimate of the expense involved in carrying out the provisions of this Order which amount shall be paid to the Clerk of this Court on or before July 1, 1962, and forwarded by the Clerk to the State Engineer of the State of Utah to be placed in a Trust Fund Account and Disbursed under the direction of the Commissioner above named for paying the expenses involved in carrying out the provisions of this Decree and Order. The said amount shall be paid by the parties hereto in the following proportions:

1. Primary Water Users 55%

The Primary Water Users to pay the 55% in the following proportions:

Ashley Upper Irrigation Company	.327
Colton Ditch Company	.036
Steinaker Ditch Company	.020
Ashley Central Irrigation Company	.335
Hardy Ditch Company (out of Ashley Central Irrigation Company)	
Island Ditch Company	.074
Dodds Ditch Company	.010

Rock Point Irrigation Company	.198	
2. Ashley Valley Reservoir Company		20%
3. United States Bureau of Reclamation		15%
4. All Other Users		10%

All other users to pay the 10% in the following proportions:

Highline Canal Company	.25
Dry Fork Irrigation Company	.15
Mosby Irrigation Company	.25
Pitt Ditch Company	.05
Duayne T. Johnson	.05
Morgan Merkley	.05
William H. Hullinger	.05
Clarence E. Jones	.05
Henry Peltier and Glee C. Peltier	.05
Virtus McConkie and Sadie A. McConkie	.05

3. That the said Commissioner shall distribute the waters of Ashley Creek and its tributaries in accordance with the terms of this Decree and the respective rights of the parties hereto as shown on the records of the State Engineer and as have been tentatively established by the State Engineer in his adjudication of the respective rights of the parties hereto. The rights of all parties, excepting those heretofore decreed by this Court, shall be temporarily established for the irrigation season of 1962 only and to be definitely established as soon as practical thereafter.

4. The said waters of Ashley Creek to be distributed at the weirs or points of diversion heretofore constructed by the respective parties and approved by this Court and where the said parties do not have proper weirs and measuring devices, they are hereby ordered to install the same in a manner to be approved by the said Commissioner which said devices shall be mechanical and constructed in a manner that will shut off the water from the respective ditches or canals when directed by the Commissioner to do so.

5. Each of the parties hereto shall at his or its own expense install a Parshall flume or other measuring device at the head of his or its ditch at a place and in a manner to be approved by the Commissioner.

6. That the respective parties hereto are hereby ordered to comply with the schedule of terms and other rules and regulations as they may be given by the said Commissioner and approved by this Court in the use of the waters they are entitled to under the terms of this Decree and the laws of the State of Utah.

7. The Commissioner and his deputies are hereby ordered and directed that in the event any of the parties hereto fail to comply with this order, to shut off the water of the said party and report the failure to this Court and such party shall not be permitted the use of any of the waters of Ashley Creek and its tributaries until further order of this court.

8. The Commissioner is hereby directed to file a report of his action concerning waters of Ashley Creek with this Court as soon after January 1, 1963, as may be practical.

DATED this 15th day of May, 1962.

District Judge

TABLE 1. VERNAL AREA DISTRIBUTION SYSTEM
BUDGET FOR PERIOD JULY 1 TO DECEMBER 1, 1962 1/

ITEM	TOTAL	ASHLEY CREEK	BRUSH CREEK 2/	POT CREEK 2/
A. Salary				
1. Commissioner $428/month, July 1 to Dec. 1, 1962	$ 2140.00			
2. Deputy Commissioner $325/month, July 1 to Oct. 1, 1962	975.00			
B. Matching Funds				
1. Commissioner's Social Security	66.88			
2. Deputy Commissioner's Social Security	30.47			
3. Commissioner's State Retirement	85.60			
4. Deputy Commissioner (no state retirement)	-0-			
SUBTOTAL	3297.95	2292.48	773.45	232.02
C. Travel - 6750 miles at 10¢ per mile for Ashley Creek with Brush and Pot Creeks as established	1325.00	675.00	500.00	150.00
D. Bonds and Insurance - Ashley Creek	100.00	100.00		
E. Office Rent - $60/month 3/	300.00	300.00		
F. Telephone - $30/month 3/	150.00	150.00		
G. Report Processing (1962)	220.00	115.00	75.00	30.00
H. System Equipment	500.00	500.00		
1. Miscellaneous	67.52	67.52		
TOTAL	$ 5960.47	4200.00	1348.45	412.02

1/ The annual budget for future years is suggested on the next table which is attached.
2/ Brush Creek and Pot Creek have established budgets for 1962 and are shown here for comparison purposes only.
3/ Estimated, - Costs will be held to a reasonable minimum.

TABLE 3. 1962 COURT COLLECTION (ASHLEY) $4200.00
TO BE PAID TO THE COURT PRIOR TO JULY 1, 1962

		(Court Percent)	
1.	Primary Users 1/	55%	$2310.00 1/
2.	Ashley Valley Res. Co.	20%	840.00
3.	U.S. Bureau of Recl.	15%	630.00
4.	All other users 2/	10%	420.00 2/
	Total	100%	$4200.00

1/ (Primary Users)	(Court Percent)	
Ashley Upper Irrig. Co.	.327%	$ 755.37
Colton Ditch Co.	.036%	83.16
Steinaker Ditch Co.	.020%	46.20
Ashley Central Irrig. Co.	.335%	773.85
Island Ditch Co.	.074%	170.94
Dodds Ditch Co.	.010%	23.10
Rock Point Irrig. Co.	.198%	457.38
Total	1.000%	$2310.00 1/

2/ (All Others)	(Court Percent)	
Highline Canal Co.	.25%	$105.00
Dry Fork Irrig. Co.	.15%	63.00
Mosby Irrig. Co.	.25%	105.00
Pitt Ditch Co.	.05%	21.00
Duayne T. Johnson	.05%	21.00
Morgan Merkley	.05%	21.00
William H. Hullinger	.05%	21.00
Clarence E. Jones	.05%	21.00
I. Henry Peltier & Glee C. Peltier	.05%	21.00
Virtus McConkie & Sadie A. McConkie	.05%	21.00
Total	1.00%	$420.00 2/

PROPOSED WATER DELIVERY SCHEDULE FOR ASHLEY CREEK AND TRIBUTARIES (1

It is proposed to divide the water of Ashley Creek and Dry Fork in accordance with the decreed water rights as closely as can be followed. However, until these rights have been established on a more firm basis, the distribution as set out in the past, will be followed during the early part of 1962.

This schedule is as follows:

I. FIRM FLOW: will be distributed prorated on the following schedule.

A. Water User or canal	% of Flow
1. Ashley Upper Irrigation Co. Canal	36.3
2. Steinaker Ditch	2.0
3. Ashley Central Irrigation Co. Canal	33.5
4. Island Ditch	7.4
5. Dodds Ditch Co. Canal	1.0
6. Rock Point Irrigation Co. Canal	19.8

II. Transmountain Diversions, Applications, or Certificates will have water delivered in accordance with priority.

A. Ashley Valley Reservoir Company water is to be delivered from the Brush Creek Canal into the stockholders' canals on the basis of 90% of diversion with 10% being assessed as transmission charges.

B. Highline Canal Company water to be delivered in accordance with their applications.

C. U. S. Bureau of Reclamation water to be delivered through the Thornberg diversion as per applications.

D. All private diversions in accordance with their application rights.

III. Dry Fork rights will be delivered in accordance with the Dry Fork Decree with no release of low flow to the primary water rights of Ashley Creek, and all applications and certificates will be delivered water in accordance with their priority.

A. Mosby Irrigation Company will be delivered water in accordance with physical conditions and their application priority.

(1 This schedule is to be applied as proposed until a more equitable schedule of all rights may be developed. Changes in this schedule will be made as additional information becomes available.

UNITED STATES DEPT. OF THE INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIV.

File No. 9-2710

Daily discharge, in second-ft. of Ashley Creek at Sign of the Main, near Vernal, Utah - year ending Sept. 30, '62

Day	Oct.	* Nov.	* Dec.	* Jan.	* Feb.	* Mar.	* Apr.	* May	* June	* July	* Aug.	* Sept.
1	101	98	57	b 39	26	b 27	45	321	* 484	469	156	73
2	92	94	56	b 38	26	b 27	47	302	584	422	151	75
3	92	88	57	b 37	26	27	49	313	741	382	* 147	72
4	90	89	52	37	26	b 27	46	391	998	348	141	71
5	88	88	50	36	26	26	40	504	846	317	143	69
6	86	84	48	36	26	26	39	721	702	284	143	71
7	86	86	46	36	26	26	41	956	635	253	141	71
8	101	84	44	36	27	26	40	1,070	573	253	137	69
9	101	84	44	36	26	27	37	*1,250	567	* 237	133	69
10	92	84	b 44	b 33	29	26	35	1,360	671	221	137	69
11	100	84	b 42	b 34	34	26	35	1,380	831	198	125	68
12	103	76	b 42	b 34	36	26	36	1,080	* 802	198	116	* 68
13	101	76	b 43	34	41	*b26	40	990	809	204	122	68
14	105	72	b 44	33	37	b 26	47	775	940	195	120	66
15	120	69	45	b 32	34	26	54	623	795	185	116	66
16	* 131	* 72	45	b 30	33	25	58	540	612	182	*109	66
17	139	75	45	b 29	32	25	69	489	562	167	106	66
18	129	69	44	29	30	26	90	413	509	149	103	65
19	120	69	47	30	30	29	*141	459	589	139	101	64
20	129	66	44	30	31	34	240	589	709	137	103	65
21	129	69	* 45	30	30	34	276	578	761	133	92	77
22	122	66	44	b 29	30	28	276	499	747	127	92	88
23	108	69	43	b28	30	26	302	455	702	125	86	79
24	108	71	b 43	b 28	30	26	382	*519	683	133	83	72
25	100	69	43	b 28	30	34	484	535	653	*135	79	69
26	106	64	43	a 27	29	50	519	464	595	145	77	60
27	105	60	b 42	a 27	b 26	68	* 484	464	567	137	75	68
28	108	59	40	a 27	b 26	56	494	422	530	131	73	75
29	101	57	40	*a 27		45	431	369	499	124	72	77
30	98	58	40	26		42	352	361	525	149	75	68
31	108		40	27		42		440		165	75	
	3,299	* 2,249	1,402 *	* 983	833 *	* 985	5,229 *	* 19,632	20,221 *	* 6,444	3,429 *	* 2,104
MEAN	106	75	45.2	31.7	29.8	31.8	174	633	674	208	111	70.1
ACRE FEET	6,540	4,460	2,780	1,950	1,650	1,950	10,370	38,940	40,110	12,780	6,800	4,170

Max. discharge, 1,650 cfs May 10

* Discharge measurement made on this day.

a No gage-height record

b Stage - discharge relation affected by ice

YEAR MEAN 183

ACRE FEET 132,500

UNITED STATES DEPT. OF THE INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIV.

File No. 9-2700.00

Daily discharge, in second-ft. of Dry Fork below springs, near Dry Fork, Utah - year ending Sept. 30, 1962

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13							66	149	218	21	
2	11							65	190	190	21	
3	9.1							65	252	173	* 17	
4	7.9							66	312	158	12	
5	5.3							77	309	145	9.5	
6	3.0							105	274	132	7.6	
7	.6							187	256	119	4.2	
8	0							223	223	111	1.4	
9	0							* 305	212	*104	0	
10								319	249	96		
11								360	364	90		
12								316	*383	83		
13	0.5							309	387	81		
14	2.0							265	424	77	* 0	
15	7.9							220	*387	74		
16	16						* 0	190	305	69		
17	*20	*						169	271	66		
18	24							143	256	62		
19	25							141	288	58		
20	24							176	356	55		
21	24							176	383	52		
22	21						4.1	154	360	48		
23	16						*15	141	330	46		
24	12						26	160	327	42		
25	8.8						37	164	316	41		
26	5.9						50	145	285	37		
27	4.6						56	143	268	33		
28	3.4						62	*141	259	29		
29	1.2						66	113	243	23		
30	0						66	113	246	18		
31	0							137		18		
	266.2		0		0		382.1		8,864		93.7	
		0		0		0		5,353		2,548		0
MEAN	8.59	0	0	0	0	0	12.7	173	295	82.2	3.02	0
ACRE FEET	528	0	0	0	0	0	758	10,620	17,580	5,050	186	0

Maximum discharge 455 cfs June 15

* Discharge measurement or observation of no flow made on this day.

YEAR MEAN 48.0

ACRE FEET 34, 720

UNITED STATES DEPT. OF THE INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIV.

File No. 09-2705.00

Daily discharge in second-ft. of Dry Fork at mouth, near Dry Fork, Utah - year ending Sept. 30, 1962

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	5.0	3.3	1.9	*a 1.5	1.4	10	46	144	178	12	3.3
2	.7	4.7	3.3		1.3	1.4	12	47	186	153	9.7	3.3
3	.7	4.1	3.8		1.3	1.4	12	47	254	133	10	2.3
4	.7	4.4	3.5		1.3	1.4	11	47	325	123	9.2	1.4
5	.7	4.4	3.5		1.3	1.4	8.0	55	317	108	7.6	1.4
6	.7	4.4	3.5		1.3	1.5	6.4	78	281	* 96	6.4	1.4
7	.7	4.4	3.5		1.3	1.6	7.6	178	274	75	6.1	1.4
8	1.4	4.1	3.5	b 2.0	1.3	1.7	6.8	203	247	68	5.7	1.4
9	4.7	4.1			1.3	1.9	5.7	*303	231	63	5.7	1.4
10	1.5	4.1			b 1.8	2.0	5.0	371	271	59	5.4	1.5
11	2.0	4.1					4.4	387	351	49	4.1	1.4
12	3.3	4.1	b 3.0				4.4	306	*363	50	2.8	1.3
13	3.3	3.5			b 6.0		4.1	299	332	53	2.5	* 1.3
14	3.3	3.5				*b 1.5	4.1	264	*420	48	2.0	1.1
15	3.0	*3.3					3.8	209	347	52	1.7	1.0
16	*3.0	3.5			2.5		3.5	176	234	50	1.9	.9
17	3.0	3.5			2.0	2.0	*2.8	148	178	44	1.7	.9
18	4.1		a2.5		1.9	2.3	2.3	121	155	37	2.8	1.0
19	4.7				1.7	2.8	2.3	108	198	32	3.0	.9
20	5.0		(*)		1.9	3.0	2.0	142	261	28	2.8	1.0
21	5.4		2.5		1.7	3.8	2.0	151	328	22	3.3	1.9
22	6.1	b3.5	2.3		1.6	3.5	1.9	137	325	19	3.5	1.9
23	5.4		2.3	a1.5	1.6	3.0	2.0	121	288	18	3.0	1.3
24	4.4		2.0		1.6	3.0	6.8	142	292	17	2.8	1.2
25	4.1		2.0		1.6	3.5	17	153	281	17	2.8	1.2
26	4.4		2.3		1.5	6.1	30	131	247	23	2.5	1.2
27	5.0		2.3		1.4	12	35	127	234	22	2.5	1.9
28	5.0	3.5	2.3		1.4	13	*42	*115	218	18	2.8	2.0
29	5.0	3.3	2.0			10	48	99	195	14	2.8	2.0
30	5.0	3.5	2.3			8.4	47	99	200	12	2.8	1.6
31	5.0		2.0			8.0		127		12	2.8	
	102.0	*	85.7	*	66.1	*	349.6	*	7,977	*	134.7	*
	*	114.5	*	53.4	*	109.1	*	4,937	*	1,693	*	45.8
MEAN	3.29	3.82	2.76	1.72	2.36	3.52	11.7	159	266	54.6	4.35	1.53
ACRE FEET	202	227	170	106	131	216	693	9,790	15,820	3,360	267	91

Max. discharge 527 cfs May 10

* No gage height record (stage-discharge relation affected by ice during most of period).

YEAR MEAN 42.9
ACRE FEET 31,070

b Stage-discharge relation affected by ice.

DATE	UPPER C.	HIGHLINE C.	CENTRAL C.	ROCK POINT C.	WATER DIVIDED INTO THE VALLEY CANALS AND CHARGED TO VERNAL CITY AS RETURN WATER.
Up to Aug. 14	468	347.8	182.3		
Aug. 15	23		16		
" 16	23		8		
" 17	23		2	2	
" 18	23		2	2	
" 19	23		2	2	
" 20	23		4		
" 21	23		4		
" 22	23		4		
" 23	17		4	9	
" 24	17		4	9	
" 25	20		4	3	
" 26	20		4	3	
" 27	20		7		
" 28	20		7		
" 29	15		4	8	
" 30	15	10	4	8	
" 31	15	10	9	3	
Sept. 1	15	10	9	3	
" 2	15	10	9	3	
" 3	15	10	9	3	
" 4	15	10	9	3	
" 5	15	10	9	3	
" 6	15	10	9	3	
" 7	15	10	9	3	
" 8	17	8	9	3	
" 9	17	8	9	3	
" 10	17	7	9	4	
" 11	15	7	9	6	
" 12	15	7	9	6	
" 13	15		9	6	7
" 14	15		9	6	7
" 15	11		9	6	11
" 16	11		9	6	11
" 17	11		9	8	9
" 18	11		9		17
" 19	11		9		17
" 20	11	8	9		9
" 21	11	8	9		9
" 22	11	8	9		9
" 23	11	8	9		9
" 24	11	8	9		9
" 25	9	6	9		3
" 26	7	4	9		7
" 27	7		9		11
" 28	7		9		11
" 29	7		9		11
" 30	7		9		11
Oct. 1 to Oct. 17	11		56		55
Totals	1,192 cfs 2,384 ac.ft.	524.8 cfs 1,049.6 ac.ft.	597.3 cfs 1,194.6 ac.ft.	124.0 cfs 248.0 ac.ft.	283.0 cfs 566.0 ac.ft.

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through a 2 ft. Parshall

at Stanaker Ditch for Irrigation Season 19 62

Month	July		August											
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1			.55	3.17										
2			.55	3.17										
3			.55	3.17										
4			.40	1.93										
5			.40	1.93										
6			.40	1.93										
7	.82	5.88	.35	1.57										
8	.81	5.77	.35	1.57										
9	.80	5.66	.35	1.57										
10	.80	5.66	.35	1.57										
11	.75	5.12	.35	1.57										
12	.75	5.12	.35	1.57										
13	.61	3.72	.29	1.18										
14	.61	3.72	.29	1.18										
15	.61	3.72	.25	.93										
16	.61	3.72												
17	.61	3.72												
18	.61	3.72												
19	.61	3.72												
20	.61	3.72												
21	.46	2.40												
22	.46	2.40												
23	.46	2.40												
24	.46	2.40												
25	.55	3.17												
26	.55	3.17												
27	.55	3.17												
28	.55	3.17												
29	.55	3.17												
30	.55	3.17												
31	.55	3.17												
Total		94.76		28.01										
Total Ac. Ft.		189.52		56.02										

Note: Due to the inadequate diversion works at the head of the Stanaker Ditch no measurable amount of water was diverted after the date of Aug. 15, 1962. It now appears that some water may be diverted out of Ashley Creek and into the new Stanaker Reservoir during the latter part of November until the feeder canal repairs are completed.
(Dated Nov. 13, 1962)

TOTAL FOR 1962 245.54 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through a control 18

at Highline Canal for Irrigation Season 19 62

Month	July		August		Sept.									
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1			1.3	30.0	.80	10.0								
2			1.3	30.0	.80	10.0								
3			1.3	30.0	.80	10.0								
4			1.3	30.0	.80	10.0								
5			1.3	30.0	.80	10.0								
6			1.3	30.0		12.5								
7	.74	7.20	1.3	30.0		12.5								
8	.72	7.0	1.08	22.5	.80	10.0								
9	.72	7.0		20.0	.80	10.0								
10	.72	7.0		20.0		9.5								
11	.68	6.5	.85	11.0		9.5								
12	.68	6.5		1.5		9.5								
13	.68	6.5		1.5		0								
14	.68	6.5		0.5		0								
15	.68	6.5		0.5		0								
16	.68	6.5		0.5										
17	.62	5.0		0.5										
18	.62	5.0		0.5										
19	.58	4.0		0.5										
20	.48	3.5		0.5	.72	8.0								
21	.47	3.4		0.5	.72	8.0								
22	.47	3.4		0.5	.72	8.0								
23	.46	3.2		0.5	.72	8.0								
24	.62	5.0		0.5	.72	8.0								
25	.62	5.0		0.5		6.0								
26	.62	5.0		0.5	.58	4.0								
27	.62	5.0		0.5		0								
28	.58	4.0		0.5										
29	.48	3.5		0.5										
30	1.20	30.0	.80	10.0										
31	1.20	30.0	.80	10.0										
Total		155.2		314.5		173.5								
Total Ac. Ft.		310.4		629.0		347.0								

TOTAL FOR 1962 1,286.0 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through a 15' Parshall

at Upper Canal for Irrigation Season 19 62

Month	July		August		Sept.		Oct.		Nov.					
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1			.88	47.0	.66	30.0	.58	24.0	.41	14.0				
2			.88	47.0	.66	30.0	.58	24.0	.41	14.0				
3			.88	47.0	.63	28.0	.54	22.0	.41	14.0				
4			.86	45.0	.63	28.0	.50	19.0	.41	14.0				
5			.87	46.0	.62	27.0	.53	21.0	.41	14.0				
6			.81	41.0	.57	23.0	.60	25.0	.41	14.0				
7	1.24	82.0	.82	42.0	.57	23.0	.60	25.0	.41	14.0				
8	1.20	77.4	.83	43.0	.57	23.0	.66	30.0	.41	14.0				
9	1.17	74.0	.87	46.0	.63	28.0	.60	25.0	.41	14.0				
10	1.14	71.0	.87	46.0	.63	28.0	.55	22.0	.41	14.0				
11	1.07	64.0	.91	50.0	.62	27.0	.54	22.0	.41	14.0				
12	1.00	58.0	.93	52.0	.61	26.0	.53	21.0	.41	14.0				
13	.92	51.0	.97	55.0	.69	32.0	.52	20.0	.40	13.0				
14	.96	54.0	.93	52.0	.68	31.0	.51	20.0	.35	11.0				
15	1.02	60.0	.93	52.0	.63	28.0	.50	19.0	.35	11.0				
16	1.02	60.0	.90	49.0	.60	25.0	.50	19.0	.35	11.0				
17	1.02	60.0	.90	49.0	.60	25.0	.48	18.0	.35	11.0				
18	.96	54.0	.90	49.0	.62	27.0	.47	17.0	.35	11.0				
19	.96	54.0	.90	49.0	.63	28.0	.47	17.0	.37	12.0				
20	.94	52.0	.96	54.0	.56	23.0	.45	16.0	.37	12.0				
21	.94	52.0	.86	45.0	.57	23.0	.44	16.0	.37	12.0				
22	.92	51.0	.87	46.0	.71	33.0	.43	15.0	.37	12.0				
23	.91	50.0	.80	40.0	.68	31.0	.42	14.0	.37	12.0				
24	.97	55.0	.76	37.0	.61	26.0	.42	14.0	.37	12.0				
25	.94	52.0	.71	33.0	.61	26.0	.42	14.0	.40	13.0				
26	.94	52.0	.73	35.0	.55	22.0	.41	14.0	.40	13.0				
27	.99	57.0	.74	36.0	.60	25.0	.41	14.0	.40	13.0				
28	.96	54.0	.76	37.0	.64	28.0	.42	14.0	.37	12.0				
29	.98	56.0	.65	29.0	.64	28.0	.44	16.0	.37	12.0				
30	.91	50.0	.65	29.0	.62	27.0	.42	14.0	.37	12.0				
31	.98	56.0	.65	29.0			.41	14.0						
Total		1459.4		1357.0		809.0		585.0		383.0				
Total Ac. Ft.		2918.8		2714.0		1618.0		1170.0		766.0				

TOTAL FOR 1962 9,186.8 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through a 12" Parshall

at Dodds Ditch **for** Irrigation Season **19** 62

Month	July		August		Sept.		Oct.		Nov.					
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1			.44	1.15	.27	.54	.20	.35	.20	.35				
2			.44	1.15	.27	.54	.20	.35	.20	.35				
3			.44	1.15	.24	.46	.20	.35	.20	.35				
4			.39	.95	.24	.46	.20	.35	.20	.35				
5			.39	.95	.24	.46	.20	.35	.20	.35				
6			.39	.95	.24	.46	.22	.40	.20	.35				
7	1.08	4.5	.36	.84	.24	.46	.22	.46	.20	.35				
8	1.06	4.37	.36	.84	.23	.43	.25	.49	.20	.35				
9	1.0	2.10	.36	.84	.23	.43	.22	.40	.20	.35				
10	.65	2.08	.36	.84	.21	.37	.22	.40	.20	.35				
11	.65	2.08	.36	.84	.21	.37	.22	.40	.20	.35				
12	.54	1.57	.36	.84	.20	.35	.22	.40	.20	.35				
13	.54	1.57	.35	.80	.20	.35	.22	.40	.20	.35				
14	.54	1.57	.35	.80	.20	.35	.22	.40	.20	.35				
15	.50	1.39	.35	.80	.20	.35	.22	.40	.20	.35				
16	.50	1.39	.35	.80	.22	.40	.22	.40						
17	.50	1.39	.35	.80	.28	.58	.22	.40						
18	.50	1.39	.35	.80	.28	.58	.22	.40						
19	.50	1.39	.35	.80	.21	.37	.20	.35						
20	.50	1.39	.34	.77	.20	.35	.20	.35						
21	.45	1.19	.34	.77	.20	.35	.20	.35						
22	.44	1.15	.34	.77	.24	.45	.20	.35						
23	.40	.99	.34	.77	.24	.45	.20	.35						
24	.44	1.15	.34	.77	.23	.43	.20	.35						
25	.44	1.15	.33	.74	.23	.43	.20	.35						
26	.42	1.07	.33	.74	.21	.37	.20	.35						
27	.42	1.07	.33	.74	.24	.46	.20	.35						
28	.42	1.07	.27	.54	.26	.51	.20	.35						
29	.42	1.07	.27	.54	.26	.51	.20	.35						
30	.42	1.07	.27	.54	.24	.46	.20	.35						
31	.42	1.07	.27	.54			.20	.35						
Total		40.23		26.71		13.08		11.59		5.25				
Total Ac. Ft.		80.46		53.42		26.16		23.18		10.50				

TOTAL FOR 1962 193.72 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through an 8' Parshall

at Rock Point Canal **for** Irrigation Season **19** 62

Month	July		August		Sept.		Oct.		Nov.					
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1			.73	19.3	.50	10.5	.20	2.8	.36	6.20				
2			.74	19.7	.48	9.8	.40	7.34	.37	6.48				
3			.70	18.0	.40	7.34	.27	4.0	.37	6.48				
4			.70	18.0	.43	8.24	.27	4.0	.37	6.48				
5			.72	18.9	.50	10.5	.27	4.0	.35	5.93				
6			.65	16.0	.50	10.5	.34	5.66	.35	5.93				
7	1.62	69.5	.65	16.0	.50	10.5	.58	13.3	.35	5.93				
8	1.60	68.1	.66	16.4	.45	8.87	.34	5.66	.35	5.93				
9	1.40	55.0	.64	15.6	.46	9.19	.25	3.80	.35	5.93				
10	1.05	34.6	.64	15.6	.55	12.2	.21	3.0	.35	5.93				
11	1.05	34.6	.64	15.6	.55	12.2	.21	3.0	.35	5.93				
12	1.0	32.0	.64	15.6	.54	11.9	.21	3.0	.35	5.93				
13	1.0	32.0	.63	15.2	.50	10.5	.21	3.0	.35	5.93				
14	1.0	32.0	.63	15.2	.55	12.2	.21	3.0	.30	4.62				
15	1.0	32.0	.63	15.2	.50	10.5	.21	3.0	.30	4.62				
16	1.06	35.1	.59	13.7	.53	11.5	.21	3.0	.30	4.62				
17	1.06	35.1	.62	14.8	.62	14.8	.21	3.0	.30	4.62				
18	1.06	35.1	.63	15.2	.50	10.5	.21	3.0	.30	4.62				
19	.99	31.5	.63	15.2	.46	9.19	.21	3.0	.32	5.13				
20	.99	31.5	.63	15.2	.39	7.05	.21	3.0	.32	5.13				
21	.84	24.2	.60	14.1	.42	7.94	.21	3.0	.32	5.13				
22	.84	24.2	.59	13.7	.61	14.5	.18	2.5	.32	5.13				
23	.80	22.4	.77	21.0	.50	10.5	.18	2.5	.32	5.13				
24	.79	21.9	.74	19.7	.46	9.19	.39	7.05	.32	5.13				
25	.81	22.8	.70	18.0	.45	8.87	.39	7.05	.34	5.66				
26	.84	24.2	.59	13.7	.41	7.64	.36	6.20	.34	5.66				
27	.79	21.9	.48	9.8	.50	10.5	.37	6.48	.32	5.13				
28	.83	23.7	.47	9.51	.58	13.3	.32	5.13	.32	5.13				
29	.75	20.1	.63	15.2	.58	13.3	.32	5.13	.32	5.13				
30	.83	23.7	.58	13.3	.54	11.9	.36	6.20	.32	5.13				
31	.84	24.2	.58	13.3			.36	6.20						
Total		811.4		485.71		315.62		141.0		164.73				
Total Ac. Ft.		1622.8		971.42		631.24		282.0		329.46				

TOTAL FOR 1962 3,836.92 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through a 3' Parshall

at Island Canal **for** Irrigation Season **19** 62

Month	July		August		Sept.		Oct.		Nov.					
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1				7.02		2.97	.50	4.05	.37	2.53				
2				7.47		2.86	.50	4.05	.37	2.53				
3				7.81		2.32	.41	2.97	.37	2.53				
4				7.81		2.42	.41	2.97	.37	2.53				
5				7.81		2.97	.41	2.97	.32	2.02				
6				6.12		3.08	.42	3.08	.32	2.02				
7	1.05	13.0		6.12		3.08	.42	3.08	.32	2.02				
8	1.00	12.0		6.12	.40	2.86	.42	3.08	.32	2.02				
9	.90	10.2		6.71	.38	2.64	.35	2.32	.32	2.02				
10	1.07	13.3		6.66	.38	2.64	.40	2.86	.32	2.02				
11	1.07	13.3		5.62	.38	2.64	.40	2.86	.32	2.02				
12	1.07	13.3		7.02	.38	2.64	.40	2.86	.32	2.02				
13	1.07	13.3		7.02	.33	2.12	.40	2.86	.32	2.02				
14	1.0	12.0		6.41	.35	2.32	.40	2.86	.26	1.46				
15	1.0	12.0		6.41	.34	2.22	.40	2.86	.26	1.46				
16	1.0	12.0	.61	5.53	.39	2.57	.37	2.53	.26	1.46				
17	1.0	12.0	.59	5.25	.42	3.08	.35	2.32	.26	1.46				
18	.90	10.2		4.18	.42	3.08	.35	2.32	.26	1.46				
19	.90	10.2		4.18	.36	2.42	.35	2.32	.28	1.64				
20	.80	8.46		5.79	.36	2.42	.34	2.22	.28	1.64				
21	.83	8.96		4.44	.38	2.64	.33	2.12	.28	1.64				
22	.80	8.46		5.25	.48	3.80	.33	2.12	.28	1.64				
23	.75	7.65	.50	4.05	.48	3.80	.30	1.82	.28	1.64				
24		9.65	.50	4.05	.44	3.32	.27	1.55	.28	1.64				
25	.80	8.46	.45	3.44	.44	3.32	.27	1.55	.30	1.82				
26	.75	7.65	.41	2.97	.40	2.86	.27	1.55	.33	2.12				
27		8.63		3.64	.46	3.56	.26	1.46	.33	2.12				
28	.83	8.96		3.92	.54	4.57	.25	1.37	.30	1.82				
29		8.63	.50	4.05	.54	4.57	.37	2.53	.28	1.64				
30		7.02	.47	3.68	.50	4.05	.37	2.53	.28	1.64				
31		9.13	.37	2.53			.37	2.53						
Total		258.46		169.08		89.84		78.57		56.60				
Total Ac. Ft.		516.92		338.16		179.68		157.14		113.20				

TOTAL FOR 1962 1,305.10 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through a 12' Parshall

at Central Canal **for** Irrigation Season **19** 62

Month	July		August		Sept.		Oct.		Nov.					
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1				44.6		19.1	.81	33.4	.40	11.0				
2				40.0		21.7	.81	33.4	.38	10.0				
3				47.0		20.6	.68	25.2	.38	10.0				
4				38.0		20.6	.68	25.2	.38	10.0				
5				41.6		21.7	.68	25.2	.38	10.0				
6				41.6		18.5	.68	25.2	.38	10.0				
7	1.11	55.3		41.6		18.5	.82	34.0	.38	10.0				
8	1.08	52.9		41.6	.57	19.1	.82	34.0	.38	10.0				
9	1.18	60.9		40.9	.57	19.1	.70	26.5	.38	10.0				
10	1.19	61.8		44.0	.52	16.4	.63	22.3	.38	10.0				
11	1.19	61.8		43.1	.52	16.4	.63	22.3	.38	10.0				
12	1.19	61.8		43.1	.52	16.4		21.0	.38	10.0				
13	1.19	61.8		43.8	.61	21.2		19.0	.38	10.0				
14	1.18	60.9		41.0	.61	21.2		19.0		7.0				
15	1.08	52.9		41.0		20.1		18.0		7.0				
16	1.08	52.9	.84	35.3	.62	21.7		17.0		7.0				
17	1.08	52.9	.84	35.3	.66	24.1		17.0		7.0				
18	1.08	52.9	.70	26.5	.66	24.1		17.0		7.0				
19	.99	46.0	.70	26.5	.74	28.9		16.0		8.0				
20	.99	46.0	.70	26.5		24.7		16.0		8.0				
21	.99	46.0	.70	26.5	.68	25.2		15.0		8.0				
22	.88	38.0		24.7	.77	30.8		14.0		8.0				
23	.88	38.0	.70	26.5	.68	25.2	.45	13.0		8.0				
24	.88	38.0		25.8	.64	22.9	.45	13.0		8.0				
25	.88	38.0	.64	22.9	.64	22.9	.45	13.0		8.0				
26	.88	38.0		20.5	.60	20.6	.45	13.0		8.0				
27		41.6		25.2	.66	24.1	.45	13.0		7.0				
28	.84	35.3		25.2	.73	28.3	.45	13.0		7.0				
29	.84	35.3	.55	18.0	.73	28.3	.45	13.0		7.0				
30		37.0	.50	15.4	.70	26.5	.45	13.0		7.0				
31		40.9	.50	15.4			.45	13.0						
Total		1206.9		1028.38		668.9		612.7		258.0				
Total Ac. Ft.		2413.8		2056.76		1337.8		1225.4		516.0				

TOTAL FOR 1962 7,549.76 **ACRE FEET**

SUMMARY OF COMMISSIONER'S ACTIVITIES AND DISTRIBUTION
POT CREEK WATERS, 1962

Distribution of water on Pot Creek for 1962 was a different experience for me in that we had, for a time, ample water flowing down the stream bed. According to the U. S. G. S. Preliminary Records, taken from automatic recorders located on the creek, we had in the area of 7,410 acre feet flow past the upper station. This run-off reached a peak during the middle of April and gradually tapered off to nothing by June 15.

As a result of the above mentioned volume of water, the Matt Warner Reservoir filled and over-flowed for the first time since I became Commissioner. In fact, during the early part of May, I was called upon by Zelph Calder, owner of the Matt Warner Reservoir, to open the headgates and release part of the over-flow of water through the Matt Warner Reservoir. This was done in an effort to save extensive erosion below the spillway, as well as to lower the level of water to the spillway elevation. Mr. Calder was planning to plant some fish in the Matt Warner Reservoir and he did not want them going over the spillway.

On May 23, I checked to see if the water was still going over the spillway. There was still a small amount spilling over, but most of the 9.0 c.f.s. still running in Pot Creek was going through the lower headgate in the dam. By May 27, the water was down to spillway elevation and only 6.0 c.f.s. was going through the headgate and on down Pot Creek.

On June 5, 1962, the reservoir gage read 107.4. The inflow of approximately 3.0 c.f.s. was going on through the reservoir and down to lower users on Pot Creek.

As mentioned before, the users of Pot Creek all had the opportunity to fill their storage reservoirs, as well as to use what water they needed during the period of run-off. The Crouse Reservoir filled to capacity. Some of the smaller reservoirs, belonging to the Colorado users, washed out and had to be repaired to take advantage of the excess water.

On June 12, I visited the Pot Creek area. The Matt Warner Reservoir gage showed 107.3, with approximately 3.0 c.f.s. being released and near that amount running in. Due to the filling of the Matt Warner Reservoir, the U. S. G. S. measuring facilities above the Matt Warner Reservoir was rendered useless to me, due to the backing up of water into the control area. On this date, I dammed off both of Shiner Bros. diversion ditches and dammed off Pot Creek in an effort to turn the flow down to Bill Allen in Brown's Park. There was approximately 2.5 c.f.s. running at this point of diversion.

On June 16, 1962, I received a call from Bill Allen stating that he was not receiving the water turned to him on the 12. I went to the Pot Creek area and found his diversion dam still in place, but no water. At his instructions, I released 2.71 c.f.s. from the Crouse Reservoir. The Reservoir was at level 21.5 or spillway level. Shiner Bros. had removed one dam out of their ditch since the 12th of June. This was replaced. I found that Zelph Calder had dammed off Pot Creek at his point of diversion and was taking all of the flow of the creek. I met with him on June 12, and he assured me that he would not

divert until the natural flow of Pot Creek had ceased. Pot Creek was still flowing approximately 2.0 c.f.s.

On June 17, I returned to the Matt Warner Reservoir and removed Zelph Calder's locks and placed state locks on the headgates. There was approximately 3.0 c.f.s. being released. The reservoir gage read 107.2. I removed part of the Zelph Calder diversion dam and split the water at this point, 1.5 c.f.s. going to each user. I then notified Zelph Calder that he must allow Bill Allen's portion of the stream to continue on down the creek.

At Zelph Calder's request, I visited Pot Creek on June 22. He had installed a 3 ft. rectangular weir above the Matt Warner Reservoir. It appeared to be level and installed properly. A staff gage reading of 0.21 was obtained. This gave a flow of 0.95 c.f.s. Pot Creek had again been dammed off completely and all the flow was going into the Calder Ditch. I cut the dam and sent 0.80 c.f.s. on down the channel to Bill Allen.

On June 25, I met with Zelph Calder in the Vernal Branch of the State Engineer's Office. A call was placed to Salt Lake City, Utah in an effort to receive approval to turn the Matt Warner Reservoir over to Mr. Calder, since the flow of Pot Creek had dropped to such a minor amount. That evening, June 25, Mr. Robert F. Guy, District Engineer, and I went to the Matt Warner Reservoir and removed the state locks. The inflow was 0.41 c.f.s., the release was 3.42 c.f.s., and the reservoir gage read 107.0.

A final visit was made to the Matt Warner Reservoir on October 30, 1962, and the reservoir gage read 101.75, a storage hold-over of 1450 acre feet.

Mr. Calder has informed me that his fish are doing well and he plans to hold them over until 1963.

The total distribution went very well, except for some difficulty experienced toward the end of the month of June, when it seemed almost impossible to get Bill Allen's share of water on down to his diversion point. Most of this problem could be solved by installing a locking-type, screw-type headgate at the Zelph Calder diversion point.

The Colorado users, Bill Karren and the Massey Bros., had the opportunity to use more water than has been available for years. It might be worthwhile to suggest that improvements should be made on the existing storage reservoir and also that new ones might be planned. Due to the limited storage space available, it is almost certain that most of the water available went on down into Green River and was lost as far on down as the Pot Creek users are concerned.

Because of the fact that both the major reservoirs, Matt Warner and Crouse, filled to capacity, the distribution of the Colorado rights was simply a matter of the excess over-flow going on down Pot Creek. Bill Allen's late call for water from Pot Creek also assured the Colorado users of receiving their full rights, since he did not call for the water until after Pot Creek was below 5.0 c.f.s.

A copy of the U. S. G. S. Preliminary Records will accompany this report. As

mentioned above, the recorder was limited without the proper correction and their report shows Pot Creek's flow stopped on June 15. Actual measurement taken by Robert Guy and myself, show that the creek actually flowed a measurable amount until June 26, 1962. Since the Preliminary Records are subject to revision, this may explain the difference in flows recorded by the U. S. G. S. and measurements taken by me.

POT CREEK SYSTEM RECOMMENDATIONS FOR 1963

1. Adequate measuring device should be installed at the outlet of the Matt Warner Reservoir.

2. It is recommended that adequate diversion works be installed at all diversion points below the Matt Warner Reservoir.

3. Water belonging to the lower Pot Creek users should not be stored in the Matt Warner Reservoir.

4. It should be determined what right, if any, Shiner Bros. have for diverting water from Pot Creek into stockwatering reservoirs. Then a clear cut policy can be determined as to what the penalty may be for taking the other user's water.

5. It is recommended that more efficient use be made of the water diverted for irrigation purposes. In the past, it has been noted that water was left unattended to the point of its running down the road.

6. A bigger effort on the part of all users to understand the other user's problems with some co-operation from all concerned would solve most of the Pot Creek System problems.

UNITED STATES DEPT. OF THE INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIV.

File No. 09-2358

Daily discharge, in second-ft. of Pot Creek near Vernal, Utah - year ending Sept. 30, 1962

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	0	* 0	60	41	3.1			
2							100	* 37	2.7			
3							125	32	2.5			
4							112	29	* 2.4			
5							94	26	2.5			
6							78	26	2.9			
7							109	30	2.7			
8	0.2						33	37	2.4			
9	.7					b .5	27	35	2.2			
10	.4			b 1	b 4		29	32	2.0			
11	.2				b 4		28	30	1.6			
12	.1						24	22	1.3			
13	* 0.0				a 5		22	17	.8			
14						b 0	23	16	.4			(*)
15		(*)					25	16	.1			
16							185	15	0			
17							180	14			(*)	
18					a 2		177	* 13				
19							170	12				
20							* 160	11				
21						b 0.2	138	11				
22							91	9.0				
23							155	9.0				
24							198	7.9				
25							* 163	7.9				
26						b 6	118	5.8	*0			
27						b 40	90	4.2				
28	0.1					b 60	66	3.9				
29	.2					b 50	55	3.3				
30	.2					b 30	46	3.1				
31	0.0					b 35		3.1				
	2.1	0	0	0.1	38	225.1	2,881	559.2	29.6	0	0	0
MEAN	0.07	0	0	0.1	1.4	7.26	96.0	18.0	0.99	0	0	0
ACRE FEET	4.2	0	0	6	75	446	5,710	1,110	59	0	0	0

Max. discharge 286 cfs Apr. 7

YEAR MEAN 10.2

ACRE FEET 7,410

a No gage height record

b Stage-discharge relation affected by ice.

Rotation Schedule for Middle Part of Brush Creek, Uintah County, Summer, 1962.
Amount: 35.5% of 13% of total flow of Creek.

Name	Hours of Right	Begin Date	Begin Time	End Date	End Time
Howard Ainge	89:30	7-15	12:01 p.m.	7-19	5:31 a.m.
Sam Sessions	20:21	7-19	5:31 a.m.	7-20	1:52 a.m.
Murrays	17:27	7-20	1:52 a.m.	7-20	7:19 p.m.
Leon Ainge	20:21	7-20	7:19 p.m.	7-21	3:40 p.m.
Martin Evans	20:21	2-21	3:40 p.m.	7-22	12:01 a.m.
Howard Ainge		7-22	12:01 p.m.	7-26	5:31 a.m.
Sam Sessions		2-26	5:31 a.m.	7-27	1:52 a.m.
Murrays		7-27	1:52 a.m.	7-27	7:19 p.m.
Leon Ainge		7-27	7:19 p.m.	7-28	3:40 p.m.
Martin Evans		7-28	3:40 p.m.	7-29	12:01 a.m.
Howard Ainge		7-29	12:01 p.m.	8-2	5:31 a.m.
Sam Sessions		8-2	5:31 a.m.	8-3	1:52 a.m.
Murrays		8-3	1:52 a.m.	8-3	7:19 p.m.
Leon Ainge		8-3	7:19 p.m.	8-4	3:40 p.m.
Martin Evans		8-4	3:40 p.m.	8-5	12:01 a.m.

Irrigation Schedule for upper part of Brush Creek, Uintah County, Summer, 1962.
Amount: 64.5% of 13% of total stream flow.

Marvin Jackson	17:42	7-15	12:01 p.m.	7-16	5:43 a.m.
Hugh Colton	28:54	7-16	5:43 a.m.	7-17	10:37 a.m.
Bert Hatch	27:39	7-17	10:37 a.m.	7-18	2:16 p.m.
Wm. Whitbeck	1:39	7-18	2:16 p.m.	7-18	3:55 p.m.
Shiner Bros.	92:06	7-18	3:55 p.m.	7-22	12:01 p.m.
Marvin Jackson		7-22	12:01 p.m.	7-23	5:43 a.m.
Hugh Colton		7-23	5:43 a.m.	7-24	10:37 a.m.
Bert Hatch		7-24	10:37 a.m.	7-25	2:16 p.m.
Wm. Whitbeck		7-25	2:16 p.m.	7-25	3:55 p.m.
Shiner Bros.		7-25	3:55 p.m.	7-29	12:01 p.m.
Marvin Jackson		7-29	12:01 p.m.	7-30	5:43 a.m.
Hugh Colton		7-30	5:43 a.m.	7-31	10:37 a.m.
Bert Hatch		7-31	10:37 a.m.	8-1	2:16 p.m.
Wm. Whitbeck		8-1	2:16 p.m.	8-1	3:55 p.m.
Shiner Bros.		8-1	3:55 p.m.	8-5	12:01 p.m.

Continue to rotate on this schedule each week. You will be notified of the amount of water to take as the creek flow changes from week to week.

BRUSH CREEK RECOMMENDATIONS FOR 1963

1. Headgates and measuring devices should be installed or repaired where needed.

2. Studies of channel losses should be made from all existing records and continued in years to come.

3. A rotation schedule should be developed and put into operation as soon as the creek drops to a point where division of water, by percentage, becomes impractical.

4. A regular check should be made at Oaks Park Reservoir to insure Brush Creek users their full rights through the Reservoir.

5. The commissioner should be available as soon as distribution becomes necessary on the system. Records should be kept throughout the irrigation season on all diversions.

6. A meeting of the executive officers should be held whenever deemed necessary in order that any problems may be ironed out as they come.

7. An effort to develop a storage project for the system should be carried out. The building of an economically feasable storage project would mean extra water for drought years for all users on the system. Records show that ample water runs into Green River from Brush Creek and this water could be stored for late summer use.

Little Brush Creek Data

In an effort to determine how much water was actually raising in the Little Brush Creek area the following measurements were taken. These measurements came about at the request of the Sunshine Canal water master, Joe Murray.

On July 3, 1962, Robert Guy, District Engineer of the State Engineer's Office, and Dave Rasmussen, Commissioner attempted to measure the natural flow of Little Brush Creek.

Mr. Murray had previously shut off all the water coming around the sinks so that only water in the creek would be the natural flow of Little Brush Creek at this given time.

A suitable place to measure the flow was found just above the Woody Searle's diversion. This amounted to a sharp banked spot with good get away for the water going over the weir.

A portable 3 foot rectangular weir was placed in the stream channel and the weir pond allowed sufficient time to stabalize. At 3:00 p.m. 1.86 c.f.s. was measured flowing over the weir.

At the time the above mentioned measurement was taken Woody Searle and Reed Taylor had not as yet installed their measuring devices and the portable weir measurement was the best means of getting a measurement at the time.

On August 3, 1962 the Commissioner met with Bob Guy, Joe Murray, Woody Searle and Reed Taylor to once again measure the natural flow of Little Brush Creek. At this time Reed Taylor had installed a parshall flume in his ditch and we assisted Woody Searle in installing one in his ditch in order to obtain more accurate measurements on this day.

Reed Taylor's weir had a reading of .55 - 1.62 c.f.s.; Woody Searle's read .68 - 2.23 c.f.s. for a total of 3.85 c.f.s. It should be pointed out that approximately .50 c.f.s. was running back into the creek above the Woody Searle diversion from the Reed Taylor Ranch where he was irrigating.

Periodic measurements were taken the rest of the fall by the commissioner in the Reed Taylor and Woody Searle Parshalls. In averageing up the findings it appears that for the summer of 1962 the natural flow of Little Brush Creek is very near 3.0 c.f.s. Latter measurements were at a time after all the Sunshine Water had been delivered from the East Park Reservoir.

While the above measurements served a vital need during the 1962 irrigation season, it should not be recognized as the final figure in determining the natural flow of Little Brush Creek. We know from studies made on other streams that the flow varies from year to year and season to season. Future measurements should be made in order to arrive at a better average taken from a series of measurements made year after year and during spring, summer and fall.

UNITED STATES DEPT. OF THE INTERIOR - GEOLOGICAL SURVAY - WATER RESOURCES DIV.

File No. 9-2620

Daily discharge, in second-ft. of Brush Creek near Vernal, Utah - year ending Sept. 30, 1962

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.7	13					29	140	*217	57	23	18
2	8.7	12	a11				35	117	217	49	22	18
3	8.7	11			a 9.0	*9.0	43	*140	220	46	26	18
4	8.7	11		b 8.5			32	164	231	44	29	18
5	8.7	11	12				*18	173	248	36	23	18
6	8.3	11	b 12			13	17	204	246	35	21	18
7	8.3	11	11	9.2		13	24	244	238	32	21	18
8	20	11	b 11	9.2	a11	13	17	272	226	31	19	17
9	22	11		b 9.0		14	16	284	211	30	18	17
10	11	11		b 9.0		13	16	*278	195	29	18	17
11	9.6	10			a 30	13	17	274	*183	27	17	17
12	8.7	11	b 8.5		b 29	b 13	20	267	178	*53	16	17
13	8.7	12			28	(*)	25	267	164	20	* 18	17
14	9.2	b 11			17		26	252	156	19	18	*17
15	10	* 11		a 8.5	13	b 12	29	255	144	18	18	17
16	12	12			14		28	246	128	*21	17	16
17	15	12			15	12	32	238	125	22	18	16
18	13	9.6	b9.0		13	16	*48	242	120	21	18	16
19	13	b 9.5	(*)		12	16	78	237	*102	18	17	16
20	12	10			11	21	110	238	96	18	17	16
21	13	10			11	13	164	244	94	18	16	44
22	*12	b 9.5			11	9.6	152	*250	82	21	16	23
23	11	b 9.5	b9.5		11	9.6	144	253	105	21	16	20
24	12	11			11	12	192	253	82	21	15	19
25	10	11			11	23	226	253	71	*22	16	18
26	11	11		a 8.0	11	30	237	246	*64	28	16	18
27	11	11			b 9.0	61	244	235	57	23	16	19
28	12	11	b 9.0		b 9.0	42	244	231	54	22	17	19
29	11	11		(*)		26	226	222	51	21	18	20
30	13	11				23	188	213	56	23	18	18
31	13					25		206		24	18	
	353.3	*	296	*	366	*	2,677	*	4,361	*	576	*
		327.1	*	260.4	*	524.2	*	7,138	*	870	*	560
MEAN	11.4	10.9	9.55	8.40	13.1	16.9	89.2	230	145	28.1	18.6	18.7
ACRE FEET	701	649	587	516	726	1,040	5,310	14,160	8,650	1,730	1,140	1,110

Max. discharge, 543 cfs July 12

* Discharge measurement made on this day

a No gage-height record (stage-discharge relation affected by ice during part of period).

YEAR MEAN 50.2

ACRE FEET 36,320

b Stage-discharge relation affected by ice.

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through an 8' Pipe

at pumping site of Bert Hatch **for** Irrigation Season **19** 62

Month	June		July		August		Sept.							
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1		1.5						1.0						
2		1.5		1.5										
3		1.5		1.5										
4		1.5				1.5								
5		1.5												
6		1.5		1.5										
7		1.5		1.5				1.5						
8		1.5		1.5				1.5						
9		1.5												
10		1.5				1.5								
11		1.5				1.5								
12		1.5		1.5										
13		1.5		1.5										
14		1.5		1.5				1.4						
15		1.5						1.4						
16														
17				1.5		1.5								
18		1.5		1.5		1.5								
19		1.5												
20		1.5												
21								1.3						
22								1.3						
23														
24				1.5		1.5								
25		1.5		1.5		1.5								
26		1.5												
27		1.5												
28		1.5						1.5						
29		1.5						1.5						
30														
31				1.5		1.5								
Total		34.5		19.5		12.0		12.4						
Total Ac. Ft.		69.0		39.0		24.0		24.8						

TOTAL FOR 156.80 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through a 2' Parshall

at Shiner Bros. Canal **for** Irrigation Season 19 62

Month	June		July		August		Sept		Oct.					
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1	.54	3.08	.46	2.40	.40	1.93	.34	1.5	.34	1.5				
2	.54	3.08	.46	2.40	.40	1.93	.34	1.5	.34	1.5				
3	.54	3.08	.46	2.40	.40	1.93	.34	1.5	.34	1.5				
4	.54	3.08			.40	1.93	.34	1.5						
5	.54	3.08			.40	1.93	.34	1.5						
6	.54	3.08												
7	.54	3.08	.46	2.40										
8	.59	3.53	.46	2.40	.36	1.64	.34	1.5						
9	.59	3.53	.46	2.40	.42	2.09	.34	1.5						
10	.59	3.53			.23	.82	.34	1.5						
11	.59	3.53			.23	.82	.34	1.5						
12			.44	2.44	.23	.82	.34	1.5						
13			.30	1.24										
14	.50	2.73												
15	.50	2.73					.33	1.44						
16	.50	2.73					.33	1.44						
17	.50	2.73					.33	1.44						
18	.70	4.60	.39	1.86	.34	1.50	.33	1.44						
19	.70	4.60	.39	1.86	.34	1.50	.33	1.44						
20	.79	5.55	.39	1.86	.34	1.50								
21	.79	5.55	.39	1.86	.34	1.50								
22	.79	5.55	.39	1.86	.34	1.50	.32	1.37						
23	.79	5.55					.32	1.37						
24	.79	5.55					.32	1.37						
25			.60	3.62	.32	1.37	.32	1.37						
26			.41	2.01	.32	1.37	.32	1.37						
27			.41	2.01	.32	1.37								
28	.62	3.81			.32	1.37								
29	.54	3.08			.32	1.37	.34	1.50						
30	.54	3.08					.34	1.50						
31														
Total		93.52		35.02		30.19		32.05		4.5				
Total Ac. Ft.		187.04		70.04		60.38		64.10		9.0				

TOTAL FOR 390.56 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through a 12" Parshall

at Howard Ainge Ditch for Irrigation Season 19 62

Month	June		July		August		Sept.							
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1	.85	3.12	.41	1.03	.36	.84								
2	.85	3.12	.41	1.03			.42	.81						
3	.85	3.12	.41	1.03	.		.42	.81						
4	.85	3.12	.41	1.03			.42	.81						
5	.85	3.12	1.0	4.00	.40	.99	.42	.81						
6	.85	3.12	1.0	4.00	.40	.99								
7	.85	3.12	.64	2.03	.27	.54								
8	.85	3.12	.64	2.03	.27	.54								
9	.85	3.12	.64	2.03			.34	.77						
10	.85	3.12	.71	2.38			.34	.77						
11	.80	2.85	.54	1.57			.34	.77						
12	.80	2.85	.54	1.57	.35	.80	.34	.77						
13	.80	2.85	.55	1.62	.35	.80								
14	.80	2.85	.55	1.62	.24	.46								
15	.80	2.85	.40	.99	.24	.46								
16	.85	3.12	.48	1.31			.39	.73						
17	.85	3.12	.40	.99			.39	.73						
18	1.0	4.00	.40	.99			.39	.73						
19	1.0	4.00			.25	.49	.39	.73						
20	1.0	4.00			.25	.49								
21	1.40	6.68			.25	.49								
22	1.40	6.68	.65	2.08	.25	.49								
23	1.40	6.68	.50	1.39			.36	.84						
24	1.40	6.68	.50	1.39			.36	.84						
25	1.40	6.68	.60	1.84			.36	.84						
26	1.0	4.00	.41	.99	.29	.61	.36	.84						
27	1.0	4.00			.23	.43								
28	.41	1.03			.23	.43								
29	.41	1.03	.36	.84	.23	.43								
30	.41	1.03	.36	.84			.36	.84						
31			36	.84										
Total		109.21		41.81		10.28		13.44						
Total Ac. Ft.		218.42		83.62		20.56		26.88						

TOTAL FOR 1962 349.48 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through a 12" Parshall

at Sam Sessions Ditch **for** Irrigation Season **19** 62

Month	June		July		August		Sept.							
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1	.50	1.39												
2	.50	1.39			.36	.84								
3	.50	1.39												
4	.50	1.39												
5	.50	1.39	.49	1.35										
6	.50	1.39	.49	1.35			.35	.80						
7	.59	1.80	.49	1.35										
8	.59	1.80	.49	1.35										
9	.59	1.80	.49	1.35	.35	.80								
10	.59	1.80	.54	1.57										
11	.59	1.80	.54	1.57										
12	.59	1.80	.15	.24										
13	.59	1.80	.15	.24	.35	.80	.34	.77						
14	.59	1.80	.15	.24	.24	.46								
15														
16														
17														
18														
19			.40	.99										
20							.33	.74						
21	.30	.64												
22	.30	.64												
23	.30	.64			.29	.61								
24	.50	1.39												
25	.50	1.39	.44	1.15										
26	.50	1.39	.38	.92										
27	.65	2.08					.36	.84						
28	.65	2.08												
29	.65	2.08												
30	.65	2.08			.34	.77								
31														
Total		37.15		13.67		4.28		3.15						
Total Ac. Ft.		74.30		27.34		8.56		6.30						

TOTAL FOR 1962 116.50 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through a 4' Parshall

at Sunshine Canal **for** Irrigation Season **19** 62

Month	June		July		August									
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1	1.50	30.3	1.10	18.6	.69	8.91								
2	1.50	30.3	1.10	18.6	.69	8.91								
3	1.50	30.3	1.0	16.0	.70	9.11								
4	1.50	30.3	1.0	16.0	.70	9.11								
5	1.50	30.3	.90	13.6	.70	9.11								
6	1.48	29.7	.90	13.6	.69	8.91								
7	1.46	29.1	.79	11.0	.69	8.91								
8	1.40	27.2	.79	11.0	.69	8.91								
9	1.40	27.2	.80	11.3	.65	8.11								
10	1.40	27.2	.85	12.4	.65	8.11								
11	1.40	27.2	.85	12.4	.65	8.11								
12	1.30	24.2	.86	12.6	.71	9.32								
13	1.40	27.2	.86	12.6	.71	9.32								
14	1.50	30.3	.82	11.7	.71	9.32								
15	1.50	30.3	.82	11.7	.71	9.32								
16	1.50	30.3	.74	9.95	.61	7.34								
17	1.50	30.3	.74	9.95	.54	6.05								
18	1.50	30.3	.74	9.95	.54	6.05								
19	1.54	31.6	.74	9.95	.48	5.03								
20	1.54	31.6	.72	9.53	.48	5.03								
21	1.54	31.6	.72	9.53	.50	5.36								
22	1.65	35.3	.70	9.11	.32	2.65								
23	1.42	27.8	.70	9.11	.30	2.39								
24	1.42	27.8	.72	9.53	.20	1.26								
25	1.42	27.8	.75	10.2	.15	.76								
26	1.30	24.2	.72	9.53	.10	.26								
27	1.30	24.2	.70	9.11	.10	.26								
28	1.30	24.2	.70	9.11										
29	1.30	24.2	.70	9.11										
30	1.10	18.6	.69	8.91										
31			.69	8.91										
Total		850.9		354.59		175.93								
Total Ac. Ft.		1701.8		709.18		351.86								

TOTAL FOR 1962 2,762.84 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through a 9" Parshall
Ward Murray Ditch

at Martin Evans, Leon Ainge **for** Irrigation Season **19** 62

Month	June		July		August		Sept.							
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1	.80	2.18	.50	1.06			.41	.78						
2	.80	2.18	.50	1.06			.41	.78						
3	.80	2.18	.50	1.06	.43	.84								
4	.80	2.18	.50	1.06	.43	.84								
5	.80	2.18	.45	.90	.43	.84								
6	.80	2.18	.45	.90										
7	.80	2.18	.30	.49	.44	.87	.42	.81						
8	.80	2.18	.30	.49			.42	.81						
9	.80	2.18	.30	.49			.42	.81						
10	.80	2.18	.30	.49	.36	.64								
11	.80	2.18	.30	.49	.36	.64								
12	.80	2.18	.30	.49	.36	.64								
13	.80	2.18	.30	.49										
14	.80	2.18	.30	.49	.35	.62	.40	.76						
15	.80	2.18					.40	.76						
16	.75	1.98					.40	.76						
17	.75	1.98			.40	.76								
18	.75	1.98			.40	.76								
19	.75	1.98			.40	.76								
20	.75	1.98	.47	.97										
21	.75	1.98	.47	.97			.39	.73						
22	.75	1.98	.47	.97			.39	.73						
23	.75	1.98					.39	.73						
24	.75	1.98			.35	.62								
25	.50	1.06			.35	.62								
26	.50	1.06			.35	.62								
27	.50	1.06	.45	.90										
28	.75	1.98	.45	.90			.43	.84						
29	.50	1.06	.30	.49			.43	.84						
30	.50	1.06					.43	.84						
31					.41	.78								
Total		57.8		15.16		10.85		10.98						
Total Ac. Ft.		115.6		30.32		21.70		21.96						

TOTAL FOR 1962 189.58 **ACRE FEET**

STATE OF UTAH
OFFICE OF STATE ENGINEER

Daily Gage Height in Feet and Discharge in Second Feet of Water through an 8' Parshall

at Burns Bench Divider **for** Irrigation Season **19**62

Month	June		July		August		Sept.							
Day	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge	Gage Ht.	Discharge
1	1.32	50.0	1.0	32.0	.55	12.2	.51	11.0						
2	1.32	50.0	.95	29.5	.55	12.2	.51	11.0						
3	1.32	50.0	.95	29.5	.54	11.9	.51	11.0						
4	1.32	50.0	.95	29.5	.54	11.9	.51	11.0						
5	1.32	50.0	.95	29.5	.54	11.9	.51	11.0						
6	1.32	50.0	.86	25.1	.52	11.2	.51	11.0		WATER DIVISION				
7	1.32	50.0	.79	21.9	.52	11.2	.51	11.0		57% Burns Bench				
8	1.37	53.1	.79	21.9	.52	11.2	.50	10.5		26% Burton Ditch				
9	1.37	53.1	.78	21.5	.54	11.9	.50	10.5		17% Murray Ditch				
10	1.45	58.1	.78	21.5	.54	11.9	.50	10.5						
11	1.50	61.4	.70	18.0	.50	10.5	.50	10.5						
12	1.54	64.0	.70	18.0	.47	9.51	.50	10.5						
13	1.50	61.4	.66	16.4	.47	9.51	.50	10.5						
14	1.45	58.1	.64	15.6	.45	8.87	.50	10.5						
15	1.45	58.1	.65	16.0	.45	8.87	.50	10.5						
16	1.45	58.1	.65	16.0	.45	8.87	.49	10.0						
17	1.42	56.2	.62	14.8	.44	8.55	.49	10.0						
18	1.42	56.2	.62	14.8	.44	8.55	.49	10.0						
19	1.40	55.0	.62	14.8	.44	8.55	.49	10.0						
20	1.40	55.0	.60	14.1	.45	8.87	.49	10.0						
21	1.40	55.0	.60	14.1	.50	10.5	.92	28.0						
22	1.45	58.1	.62	14.8	.45	8.87	.61	14.5						
23	1.45	58.1	.62	14.8	.45	8.87	.60	14.0						
24	1.40	55.0	.60	14.1	.45	8.87	.57	13.0						
25	1.20	42.9	.60	14.1	.45	8.87	.51	11.0						
26	1.20	42.9	.55	12.2	.47	9.51	.51	11.0						
27	1.10	37.3	.55	12.2	.47	9.51	.53	11.5						
28	1.05	34.6	.55	12.2	.47	9.51	.53	11.5						
29	1.0	32.0	.55	12.2	.50	10.5	.56	12.5						
30	1.0	32.0	.55	12.2	.50	10.5	.51	11.0						
31			.55	12.2	.50	10.5								
Total		1,545.7		565.5		314.16		349.0						
Total Ac. Ft.		3,091.4		1,131.0		628.32		698.0						

TOTAL FOR 5,548.72 **ACRE FEET**