

REPORT OF DISTRIBUTION AND WATER SUPPLY

of

BRUSH CREEK DISTRIBUTION SYSTEM

FOR THE

YEAR - 1964

DAVID R. RASMUSSEN, COMMISSIONER

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## ACKNOWLEDGEMENTS

The sincere appreciation of the Water Commissioner is expressed to Mr. Wayne D. Criddle, State Engineer for the State of Utah, and his fine staff of personnel at the State Office. Special thanks goes to Mr. Bob Guy, Area Engineer and his assistant Marvin Haws from the Uintah Basin Area Office, for their cooperation and assistance in distribution and interpretation of the water rights involved in the Brushy Creek Distribution System.

Thanks is also made to the Executive Committee under the direction of Glen Murray for the Brush Creek Distribution System for their help in taking care of problems on the System.

To Dayl Webb and his fine staff in the Vernal U.S.G.S. Office, Bob Oliver, Karl Pratt and staff at the Bureau of Reclamation Office, Lorin Hunt of the Soil Conservation Service, Ben Lindsey and Dr. Bruce Anderson of the Utah State University Extension Service, L.Y. Siddoway and Hugh Colton from the Conservancy District and all others who helped in any way, the Commissioner expresses his appreciation.

BRUSH CREEK DISTRIBUTION SYSTEM  
46 NORTH VERNAL AVE.  
VERNAL, UTAH  
MARCH 1, 1965

LETTER OF TRANSMITTAL

Hon. Joseph E. Nelson  
Fourth Judicial District  
Uintah County Court House  
Vernal, Utah

Dear Sir:

In accordance with the authority granted by the ORDER APPOINTING COMMISSIONER DATED April 7, 1964, and filed in the Uintah County Court House as Civil No. 12, now Civil No. 3315, I submit herewith the report on the distribution of the waters of Brush Creek Distribution System for the year 1964.

Respectfully yours,



David R. Rasmussen  
Water Commissioner

## WATER SUPPLY

Compared to the 1963 supply, Brush Creek was considerably better during 1964. The total flow for the 12 month period, as measured at the Brush Creek gaging station near Jackson's Ranch, was 19,290 acre feet in 1964 as compared to 12,520 acre feet for 1963. An increase of 6,770 acre feet.

In addition to the water measured at Jackson's, Little Brush Creek contributed a considerable amount during the run off period.

East Park at the head of Little Brush Creek filled supplying the Sunshine Ranch with an additional 1400 acre feet to go along with any water salvaged from above the sinks and piped over the sinks area. At this time accurate records are not available as to what this salvage water amounts to, but a rough estimate would put it at approximately 1,200 acre feet based on a 30 day run period of 20 cfs or better from sources above the sinks area. A continuous recorder immediately below the pipe would give a fair record of what is salvaged and of what comes out of East Park Reservoir.

The first signs of high run off appeared around May 14, 1964, as compared with May 5 in 1963. The flow continued to increase until May 22, 1964, when the stream peaked at 229 cfs. During 1963, the creek peaked at 280 cfs on May 11, for a short period of time.

All in all, users were generally taken care of adequately until the latter part of June. After this time, the creek was put on a turn basis to better utilize the available supply which averaged a daily flow of 17.5 cfs or 35 acre feet for the 92 day period of July 1 through September 30.

This points out the need for Brush Creek to develop a storage project to take care of late season needs. At the present time, Brush Creek normally flows more than enough water during the winter months and high run off to more than take care of the annual needs of Brush Creek if part of this could be stored.

## COMMISSIONER

On the recommendation of Brush Creek users, and supported by the court, Dave Rasmussen, was appointed Water Commissioner of Brush Creek in place of the Utah State Engineer who had served as Commissioner for the past several years. Rasmussen had served as Deputy Commissioner for the previous four years under the State Engineer. For a complete understanding of this appointment and its stipulations, see the Order Appointing Commissioner that is included in this report.

Denver Long, of Vernal, Utah, was appointed Deputy Commissioner upon the recommendation of the Brush Creek Committee and served in this capacity from May 1, 1964 through September, 1964.

The majority of the Distribution work was taken care of by Mr. Long after a two week learning period. As far as the Commissioner has learned the job was done very satisfactorily in all respects and it is recommended that Mr. Long be considered for another year as Deputy Commissioner.

## SUMMARY OF DISTRIBUTION

Beginning April 15, 1964, Brush Creek was distributed according to the proposed delivery schedule as set up by the State Engineer's Office. Due to the low flows at this time, (average of 123 cfs for the month) a minimum of good was gained during this period.

On May 1, 1964, Denver Long was appointed Deputy Commissioner and after two weeks of instruction and several trips over the system, the distribution chores were turned to him. For daily records, see the records section of this report.

As problems came up that were unfamiliar to Mr. Long, Dave Rasmussen was consulted for help in solving. A rotation schedule was made up and the Creek was placed on turns beginning July 12. This distribution continued on for the balance of the summer following this schedule.

Sunshine Canal was delivered what ever flow was measured into Big Brush Creek from Little Brush Creek at the confluence minus 10% loss from the confluence to the Sunshine headgate.

Little Brush Creek rights were distributed according to the priority schedule as set up by the State Engineer. Semi-weekly visits were made to the Little Brush Creek area to check diversions out of the creek and to insure proper distribution between Little Brush Creek water and Sunshine Canal water.

Oaks Park Reservoir was checked periodically to insure Brush Creek users their natural flow right was being released after the storage period. Since the Reservoir filled, the over flow took care of what came in up until July 14, 1965, when the first releases were made. After July 14, water was released down Brush Creek in the same amount as was measured in at the head of the Reservoir through the various tributaries. An automatic Stevens Recorder has been installed on the Reservoir and will be maintained and used to determine if Brush Creek has any water coming prior to the time the Reservoir fills and a gate man is available. In the event that the recorder shows a credit to Brush Creek, this water will be released as soon as practically possible to the Brush Creek Users.

The experience and knowledge gained from five years as Deputy or Commissioner on Brush Creek points out the following recommendations for the Brush Creek System

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 up.

7. An effort to develop a storage project for the system should be carried out. The building of an economically feasible 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.

ORDER APPOINTING COMMISSIONER FOR THE BRUSH CREEK DISTRIBUTION SYSTEM 1964

IN THE FOURTH JUDICIAL DISTRICT COURT OF THE STATE OF UTAH IN AND FOR UINTAH COUNTY

-----  
BURNS BENCH IRRIGATION COMPANY,  
Plaintiff,

vs.

IRA BURTON, et al,

Defendants.

ORDER APPOINTING  
COMMISSIONER

Civil No. 12 now  
Civil No. 3315  
-----

The Motion of the Burns Bench Irrigation Company on behalf of itself and other parties, Defendants and Intervenors, Users of the waters of Brush Creek and its tributaries, in the above entitled action came on regularly for hearing the 7th day of April, 1964, praying for the Appointment of a Water Commissioner to distribute the waters of Brush Creek for the year beginning April 7, 1964, and ending April 6, 1965.

And it appearing to the Court that all of the users of the waters of Brush Creek and its tributaries heretofore made parties to this said action had 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 distribution of the waters of Brush Creek and its tributaries by reason of the Decree entered herein on August 12, 1896, as amended, to direct the administration and distribution of the waters of said Brush Creek.

And it further appearing that in order to properly protect the rights of all parties hereto to administer and distribute the waters of Brush Creek and its tributaries in a proper manner, it is necessary that a Water Commissioner of Brush Creek be appointed as provided in the said Decree.

And it further appearing that the said users of the waters of Brush Creek, the parties in this action, have by agreement among themselves made by their duly appointed representatives agreed and stipulated that David Rasmussen is a person qualified to act as said Commissioner and has agreed to so act.

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

as follows:

1. That David Rasmussen be, and he is hereby appointed Commissioner of the waters of Brush Creek and its tributaries which said Creek is a tributary of Green River in Uintah County, State of Utah, for a period of one (1) year beginning April 7, 1964, and ending April 6, 1965, or until further order of this Court; and he is hereby directed to administer and distribute the waters of

Brush Creek and its tributaries by himself or duly appointed deputies in accordance with the Laws of the State of Utah and the Decrees of this Court which by reference are made a part herof, to the parties hereto in accordance with their respective rights. The rights of the parties hereto shall be, until further Order of this Court, as they were established by the Commissioner during the 1963 irrigation season.

2. That the said Commissioner shall confer and counsel with the Chairman of a committee representing the water users of Brush Creek and its tributaries, provided said Chairman shall act in an advisory capacity only and that the Commissioner shall be responsible only to this Court.

3. That the said Commissioner shall name and appoint such deputy or deputies as he may need in the distribution of the waters of said Brush Creek and is hereby authorized to pay a reasonable salary or wages and automobile mileage to himself and such persons as he may employ in carrying out the provisions of this Order. That said Commissioner shall obtain the approval of the Chairman of the above mentioned water users committee in writing of the salary to be paid himself, his deputies and mileage allowances.

4. That the said Commissioner shall immediately submit for the approval of this Court an estimate of the expenses involved in carrying out the provisions of this Order and notify the respective water users of their proportionate share of this expense and the parties hereto are hereby directed to pay to the Clerk of this Court on or before July 1, 1964, their pro-rated share of said expenses. This money, when collected by the Clerk, shall be forwarded by him to the Commissioner to be held by him in a trust fund account and disbursed under the direction of the Commissioner for paying the expenses involved in carrying out the provisions of this Order.

5. The expense of carrying out the provisions of this Order as estimated by the Commissioner shall be paid by the parties hereto in the following proportions;

|                                 |        |
|---------------------------------|--------|
| Burns Bench Irrigation Company  | 40/115 |
| Burton Ditch Company            | 17/115 |
| Murray Ditch Company            | 12/115 |
| Upper Brush Creek Users         | 11/115 |
| Little Brush Creek              | 5/115  |
| Sunshine Canal Users            | 20/115 |
| Ashley Valley Reservoir Company | 10/115 |

Provided further, that in the event the said Commissioner shall over-estimate the actual expenses incurred during the above period, then the remaining balance shall be accrued forward to cover expenses for the next irrigation season; and that in the event the said Commissioner shall underestimate the actual expenses incurred during the above period, then he shall report the same to the Court and a further assessment will be made to meet the expenses incurred.

6. That said Commissioner shall distribute the waters of said Brush Creek 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, it is hereby ordered that they shall 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 they will shut off the waters of the respective ditches and canals when directed by the Commissioner.

7. It is further ordered that each party 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.

8. 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.

9. 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 Brush Creek and its tributaries until further order of this Court.

10. That the said Commissioner is hereby directed to file a written report of his actions and activities in the distribution of the waters of Brush Creek for the 1964 irrigation season which said report shall be filed as soon after January 1, 1965, as may be practical.

11. It is further provided that in the event any of the parties hereto shall disagree with the Chairman of the said water users committee, then he is hereby authorized to confer directly with the Commissioner or his deputy concerning any distribution problem and in the event the Commissioner or his deputy can not settle such controversy, such person may present his problem to this Court for final determination.

DATED this 7th day April, 1964.

Maurice Harding  
District Judge

Recorded in Civil Judgement

Record 10 Page 278-280

Morris R. Cook

By Frances Southam  
Deputy Clerk

BRUSH CREEK APPROPRIATIONS  
(ACTIVE AND PENDING)  
Taken from 1960 Priority Schedule

| NAME  | PRIORITY DATE               |      |         |   |              |
|---|-----------------------------|------|---------|---|--------------|
|   | 1890                        | 1896 | 1910    |   |              |
| Marvin & Aretta Jackson                                   | .56                         | 1.23 |         |   |              |
| Hugh W. Colton  | .90                         | .64  |         | * | .34          |
| Wm. E. Witbeck  | .21                         |      |         |   | .02          |
| Samuel Hatch  | .81                         | 1.23 |         |   | .57          |
| Shiner Bros.  | 2.88                        |      |         |   |              |
| Neldon Shiner   |                             | .08  |         |   |              |
| Howard & Vera Ainge                                       | .80                         | 1.33 |         |   |              |
| Samuel Sessions & Ruby Kurtz                              | .70                         | .51  |         |   |              |
| Sunshine Canal Martin Evans & Thos. L. & Estella E. Ainge | .70                         | 1.02 |         |   |              |
| Sunshine Canal Ward & Verna Murray                        |                             |      |         |   |              |
| Josephine Stewart, Art Murray                             | .30                         | .93  |         |   |              |
| Burns Bench Canal   |                             |      |         |   |              |
| Vaughn & Velma Wilkins                                    | .22                         | .75  |         |   |              |
| Burton Ditch  | 13.69                       |      |         |   |              |
| Murray Ditch  | 9.34                        |      |         |   |              |
| Burns Bench   | 31.12                       |      |         |   |              |
| Mary E. Ratliff (Spring)                                  | *1.0                        |      |         |   |              |
| " " (unam. trib to B.C.)                                  | .10                         |      |         |   |              |
| Reed & Arlene Taylor (L.B.)                               | *1.36                       |      |         |   |              |
| " " (Springs area)  | *.10                        |      |         |   |              |
| " " (Springs)   | *.30                        |      |         |   |              |
| Woodey Searle (L.B.)                                      | *1.15                       |      |         |   |              |
| Wilford & Laura E. Evans (L.B.)                           | *1.20                       |      |         |   |              |
| " " (Red Wash)  | *.75                        |      |         |   |              |
| Sunshine Canal (BC) A-15, July-1                          |                             |      | 15.67   |   |              |
| " (Salvage)(L.B.) A-15, Oct.-15                           |                             |      | * 27.00 |   |              |
| " (East Park) (L.B.) July-1 N-1                           |                             |      | * 25.00 |   |              |
| Ashley Valley Res. Co. Ja-1, Oct-30                       | 4500 ac. ft.                |      |         |   | 4500 ac. ft. |
| " " (Storage) M-1, D-1                                    | 3000 ac. ft.                |      |         |   | 3000 ac. ft. |
| Sunshine Canal  |                             |      |         |   |              |
| W. J. Meagher Sr. M-1, Dec.-15                            | 20.00 cfs.                  |      |         |   |              |
| Bureau of Reclamation                                     |                             |      |         |   |              |
| Tyzack Res. A-1, Oct.-1                                   | 40.0 cfs. or 10,000 Ac. Ft. |      |         |   |              |
| Central Utah Project Ja-1, D-31                           |                             |      |         |   |              |
| Brush Creek   | 500 cfs or 35,000 Ac. Ft.   |      |         |   |              |
| Little Brush Creek  | 500 cfs or 35,000 Ac. Ft.   |      |         |   |              |
| Humphreys Phosphatate C. J-1, D-31                        | .50 cfs (spring)            |      |         |   |              |
| " " (underground)   | 13.0 cfs (well)             |      |         |   |              |
| " " (storage)   | 5.0 cfs OR 2732.32 Ac. Ft.  |      |         |   |              |
| Utah Fish and Game J-1, D-31                              | 13.0 cfs (fish culture)     |      |         |   |              |
| Katherine Ivers (L.B. above sinks A-15, D-15)             | *5.0 cfs                    |      |         |   |              |

PENDING

1-11-54  
 10-10-48  
 12-4-45  
 9-4-46  
 4-23-46  
 10-15-36  
 3-1-35  
 11-20-26  
 2-10-21  
 10-16-18  
 11-14-16  
 Priority Mo-dy-yr

\* appropriations from Little Brush Creek.  
 These appropriation were taken from the Priority Schedule (1960), and all rights are in CFS except where they have been indicated to be in acre feet.

In the later priorities, in the Day-Month-Year column, 11-14-16 would refer to a priority dated Nov. 14, 1916. The period of use from April 15 to Coctober 15.

ROTATION SCHEDULE FOR UPPER PART OF BRUSH CREEK FOR 1964 (64.5 % of 13 % of flow)

Marvin Jackson

Time: 17 hours 42 minutes

| Turns begin: |            | Turns End |           |
|--------------|------------|-----------|-----------|
| July 12      | 12:01 p.m. | July 13   | 5:43 a.m. |
| July 19      | "          | July 20   | "         |
| July 26      | "          | July 27   | "         |
| Aug. 2       | "          | Aug. 3    | "         |
| Aug. 9       | "          | Aug. 10   | "         |
| Aug. 16      | "          | Aug. 17   | "         |
| Aug. 23      | "          | Aug. 24   | "         |
| Aug. 30      | "          | Aug. 31   | "         |

Hugh Colton

Time: 28 hours 54 minutes

| Turns begin |           | Turns end |            |
|-------------|-----------|-----------|------------|
| July 13     | 5:43 a.m. | July 14   | 10:37 a.m. |
| July 20     | "         | July 21   | "          |
| July 27     | "         | July 28   | "          |
| Aug. 3      | "         | Aug. 4    | "          |
| Aug. 10     | "         | Aug. 11   | "          |
| Aug. 17     | "         | Aug. 18   | "          |
| Aug. 24     | "         | Aug. 25   | "          |
| Aug. 31     | "         | Sept. 1   | "          |

Bert Hatch & Bill Witbeck

Time: 29 hours and 18 minutes

| Turns begin |            | Turns end |           |
|-------------|------------|-----------|-----------|
| July 14     | 10:37 a.m. | July 15   | 3:55 p.m. |
| July 21     | "          | July 22   | "         |
| July 28     | "          | July 29   | "         |
| Aug. 4      | "          | Aug. 5    | "         |
| Aug. 11     | "          | Aug. 12   | "         |
| Aug. 18     | "          | Aug. 19   | "         |
| Aug. 25     | "          | Aug. 26   | "         |
| Sept. 1     | "          | Sept. 2   | "         |

Shiner Bros.

Time: 92 hours & 6 minutes

| Turns begin |           | Turns end |            |
|-------------|-----------|-----------|------------|
| July 15     | 3:55 p.m. | July 19   | 12:01 p.m. |
| July 22     | "         | July 26   | "          |
| July 29     | "         | Aug. 2    | "          |
| Aug. 5      | "         | Aug. 9    | "          |
| Aug. 12     | "         | Aug. 16   | "          |
| Aug. 19     | "         | Aug. 23   | "          |
| Aug. 26     | "         | Aug. 30   | "          |
| Sept. 2     | "         | Sept. 6   | "          |

NOTE: CONTINUE TO ROTATE ON THIS SAME SCHEDULE AT THE SAME TIME EACH WEEK DAY FOR THE REST OF THE SUMMER. THE DEPUTY COMMISSIONER WILL NOTIFY YOU AS TO THE AMOUNT OF WATER TO USE EACH WEEK AS THE CREEK CONTINUES TO DROP.

ROTATION SCHEDULE FOR MIDDLE PART OF BRUSH CREEK FOR 1964 (35.5 % of 13% of creek)

Howard Ainge

Time: 89 hours & 30 minutes

Turns Begin

July 12 12:01 p.m.  
 July 19 "  
 July 26 "  
 Aug. 2 "  
 Aug. 9 "  
 Aug. 16 "  
 Aug. 23 "  
 Aug. 30 "

Turns End

July 16 5:31 a.m.  
 July 23 "  
 July 30 "  
 Aug. 6 "  
 Aug. 13 "  
 Aug. 20 "  
 Aug. 27 "  
 Sept. 3 "

Sam Sessions

Time: 20 hours & 21 minutes

Turns begin

July 16 5:31 a.m.  
 July 23 "  
 July 30 "  
 Aug. 6 "  
 Aug. 13 "  
 Aug. 20 "  
 Aug. 27 "  
 Sept. 3 "

Turns end

July 17 1:52 a.m.  
 July 24 "  
 July 31 "  
 Aug. 7 "  
 Aug. 14 "  
 Aug. 21 "  
 Aug. 28 "  
 Sept. 4 "

Murrays

Time: 17 hours & 27 minutes

Turns begin

July 17 1:52 a.m.  
 July 24 "  
 July 31 "  
 Aug. 7 "  
 Aug. 14 "  
 Aug. 21 "  
 Aug. 28 "  
 Sept. 5 "

Turns end

July 17 7:19 p.m.  
 July 24 "  
 July 31 "  
 Aug. 7 "  
 Aug. 14 "  
 Aug. 21 "  
 Aug. 28 "  
 Sept. 5 "

Leon Ainge

Time; 20 hours and 21 minutes

Turns begin

July 17 7:19 p.m.  
 July 24 "  
 July 31 "  
 Aug. 7 "  
 Aug. 14 "  
 Aug. 21 "  
 Aug. 28 "  
 Sept. 5 "

Turns end

July 18 3:40 p.m.  
 July 25 "  
 Aug. 1 "  
 Aug. 8 "  
 Aug. 15 "  
 Aug. 22 "  
 Aug. 29 "  
 Sept. 6 "

Martin Evans

Time: 20 hours & 21 minutes

Turns begin

July 18 3:40 p.m.  
 July 25 "  
 Aug. 1 "  
 Aug. \*8 "  
 Aug. 15 "  
 Aug. 22 "  
 Aug. 29 "

Turns end

July 19 12:01 p.m.  
 July 26 "  
 Aug. 2 "  
 Aug. 9 "  
 Aug. 16 "  
 Aug. 23 "  
 Aug. 30 "

PROPOSED BUDGET AND ASSESSMENT BREAKDOWN FOR BRUSH CREEK DISTRIBUTION SYSTEM

| ITEM  | AMOUNT    |
|---|-----------|
| 1. Commissioner's Salary                            | \$ 500.00 |
| 2. Matching social security                         | 18.00     |
| 3. Deputy Commissioner's salary                     | 1,300.00  |
| 4. Matching social security                         | 47.13     |
| 5. Travel allowance (4,000 miles at \$.10 per mile) | 400.00    |
| 6. Bonds and Insurance premiums                     | 50.00     |
| 7. Commissioners report of distribution             | 150.00    |
| 8. Miscellaneous                                    | 34.87     |
| TOTAL   | 2,500.00  |

BREAKDOWN OF THE 1964 BRUSH CREEK DISTRIBUTION SYSTEM ASSESSMENT

NOTE: For a complete understanding of the basis of the breakdown, see page 21 and 22 of the 1963 Vernal Area Distribution System Commissioner's Report.

|                   |            |
|-------------------|------------|
| "a" assessment is | \$2,173.50 |
| "b" assessment is | 218.00     |
| "c" assessment is | 108.50     |
| TOTAL             | \$2,500.00 |

"a" Users

|                         |             |            |
|-------------------------|-------------|------------|
| Burns's Bench Canal Co. | 40 % of "a" | 869.40     |
| Burton Ditch Co.        | 17 % of "a" | 369.50     |
| Murray Ditch Co;        | 12 % of "a" | 260.82     |
| Sunshine Canal Co.      | 20 % of "a" | 434.70     |
| Upper Creekers          | 11 % of "a" | 239.08     |
| TOTAL                   |             | \$2,173.50 |

"b" Ashley Valley Reservoir Company 218.00

"c" Little Brush Creek Users 108.50  
 TOTAL \$2,500.00

Upper Creekers Breakdown

|                             |  |          |
|-----------------------------|--|----------|
| Marvin Jackson              |  | \$ 16.74 |
| Hugh Colton                 |  | 26.30    |
| Bert Hatch                  |  | 26.30    |
| Bill Witbeck                |  | 2.39     |
| Shiner Bros. % Shorty Hatch |  | 83.68    |
| Howard Ainge                |  | 45.43    |
| Sam Sessions                |  | 9.56     |
| Murrays, Ward and Art       |  | 9.56     |
| Leon Ainge                  |  | 9.56     |
| Martin Evans                |  | 9.56     |

|   |      |           |
|---|------|-----------|
| <u>Little Brush Creek Users Breakdown</u> | %    | \$ 239.08 |
| Reed Taylor                               | 30 % | 32.55     |
| Woody Searle                              | 29 % | 31.46     |
| Wilford Evans                             | 34 % | 36.89     |
| Hugh Colton                               | 7 %  | 7.60      |
| TOTAL                                     |      | \$ 108.50 |

UNITED STATES DEPARTMENT OF THE INTERIOR--GEOLOGICAL SURVEY--WATER RESOURCES DIVISION

Daily discharge, in second feet, of Brush Creek near Vernal, Utah for the year ending September 30, 1964

| Day | Oct. | Nov.  | Dec.  | Jan.  | Feb.  | Mar.  | Apr. | May   | June  | July | Aug. | Sept. |
|-----|------|-------|-------|-------|-------|-------|------|-------|-------|------|------|-------|
| 1   | 10   |       |       |       |       | b 11  | 10   | 14    | 154   | 39   | 18   | 14    |
| 2   | 10   |       |       |       |       | b 11  | 11   | 17    | 135   | 35   | 18   | 14    |
| 3   | 11   |       |       |       | b 9.5 | 10    | 9.4  | 20    | * 123 | 32   | 17   | 14    |
| 4   | 10   |       |       |       |       | 11    | 9.1  | 24    | 110   | 30   | 17   | 14    |
| 5   | 11   |       |       |       |       | 11    | 9.4  | 22    | 105   | 28   | 17   | 14    |
| 6   | 12   |       | ⊕ 9.4 |       |       |       | 11   | 21    | 108   | 26   | 17   | 16    |
| 7   | 12   |       |       |       |       |       | 9.1  | 19    | 111   | * 26 | 18   | 15    |
| 8   | 11   | c 10  |       | b 9.0 |       |       | 9.1  | 18    | 103   | 26   | 18   | 15    |
| 9   | 11   |       |       |       |       |       | 9.4  | 16    | 92    | 25   | 18   | 14    |
| 10  | 11   |       |       |       |       | b 10  | 9.8  | 16    | 81    | 25   | 20   | 14    |
| 11  | 11   |       |       |       |       |       | 9.8  | * 15  | 88    | 24   | 18   | 13    |
| 12  | 12   |       |       |       |       |       | 10   | 16    | 100   | 21   | 16   | 13    |
| 13  | 14   |       |       |       |       |       | 10   | 19    | 101   | 20   | * 22 | 13    |
| 14  | 12   |       |       |       | b 10  |       | 10   | 33    | 98    | 22   | 16   | 13    |
| 15  | 12   |       |       |       |       |       | 10   | 70    | * 88  | 25   | 16   | 12    |
| 16  | 12   |       |       |       |       | 10    | 11   | 91    | 80    | 24   | 19   | * 12  |
| 17  | * 12 |       |       |       | (*)   | * 9.4 | * 13 | 117   | 79    | 24   | 16   | 12    |
| 18  | 12   |       |       |       |       | 9.4   | 15   | 140   | 115   | 24   | 16   | 12    |
| 19  | 13   |       | (*)   |       |       | 9.1   | 18   | 154   | 95    | 22   | 15   | 13    |
| 20  | c 15 | (*)   |       |       |       | 9.1   | 17   | 175   | 82    | 21   | 15   | 13    |
| 21  |      |       |       | (*)   |       | 8.8   | 16   | * 197 | 77    | 20   | 15   | 12    |
| 22  |      |       | ⊕ 9.2 |       |       | 9.4   | 15   | 222   | 103   | 20   | 15   | 11    |
| 23  | c 11 | c 9.5 |       | b 9.5 | b 12  | 9.1   | 14   | 216   | 81    | 20   | 15   | 11    |
| 24  |      |       |       |       | b 12  | 8.8   | 13   | 219   | 70    | 21   | 15   | 11    |
| 25  |      |       |       |       | 12    | 8.8   | 16   | * 219 | 61    | 22   | 15   | 11    |
| 26  |      |       |       |       |       | 8.8   | 17   | 216   | 55    | 21   | 14   | 12    |
| 27  |      |       |       |       | b 11  | 8.8   | 17   | 216   | 48    | 18   | 14   | 12    |
| 28  | c 10 |       |       |       |       | 9.1   | 15   | 209   | 46    | 18   | 14   | 13    |
| 29  |      |       |       |       |       | 9.4   | 13   | 188   | 43    | 18   | 14   | 12    |
| 30  |      |       |       |       |       | 9.4   | 13   | 169   | 41    | 18   | 14   | 12    |
| 31  |      |       |       |       |       | 9.1   |      | 161   |       | 18   | 14   |       |

349\*                      287.6\*                      299.5\*                      369.1\*                      2,673 \*                      506 \*  
 292.5\*                      287.0\*                      300.5\*                      3,249 \*                      733 \*                      387 \*

|            |      |      |      |      |      |      |      |       |       |       |       |      |
|------------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|
| Mean       | 11.3 | 9.75 | 9.28 | 9.26 | 10.3 | 9.69 | 12.3 | 105   | 89.1  | 23.6  | 16.3  | 12.9 |
| Acres Feet | 692  | 580  | 570  | 569  | 594  | 596  | 732  | 6,440 | 5,300 | 1,450 | 1,000 | 768  |

\* Discharge measurement made on this day: Maximum discharge 222 cfs May 22: Year Mean 26.6  
 b Stage-discharge relation affected by ice                      c Stage-discharge relation affected by backwater from Beaver Dam.                      Acres Feet 19,290

DAILY DISTRIBUTION OF BRUSH CREEK FOR THE MONTH OF MAY 1964

|       | REED TAYLOR | WOODY SEARLE | WILFORD EVANS | MARVIN JACKSON | HUGH COLTON | BERT HATCH | SHINER RANCH | HOWARD AINCE | SAM SESSIONS | SUNSHINE CANAL | MURRAYS | AINCE & EVANS | BURNS BENCH DIVIDER | TOTAL   |
|-------|-------------|--------------|---------------|----------------|-------------|------------|--------------|--------------|--------------|----------------|---------|---------------|---------------------|---------|
| 1     |             |              |               |                |             |            |              |              |              |                |         |               |                     |         |
| 2     |             |              |               |                |             |            |              |              |              |                |         |               |                     |         |
| 3     |             |              |               |                |             |            |              |              |              |                |         |               |                     |         |
| 4     |             |              |               |                |             |            | 5.1          | 2.4          | 1.3          |                | 1.2     | .8            | 10.5                | 21.3    |
| 5     |             |              |               |                |             |            | 1.2          | 1.1          | .2           |                | 2.3     | .8            | 10.9                | 16.5    |
| 6     |             |              |               |                |             |            | 1.2          | 1.1          | .2           |                | 2.3     | .8            | 10.9                | 16.5    |
| 7     |             |              |               |                |             |            | 1.2          | .8           | .2           |                | .5      | .5            | 10.9                | 14.1    |
| 8     |             |              |               |                |             |            | 1.2          | .8           | .2           |                | .5      | .5            | 10.9                | 14.1    |
| 9     |             |              |               |                |             |            | 1.2          | .8           | .2           |                | .4      | .4            | 10.5                | 13.5    |
| 10    |             |              |               |                |             |            | 1.2          | .8           | .2           |                | .4      | .4            | 10.5                | 13.5    |
| 11    |             |              |               |                |             |            | 1.2          | .4           | .2           |                | .4      | .4            | 9.5                 | 12.1    |
| 12    |             |              |               |                |             |            | 1.2          | .4           | .2           |                | .4      | .4            | 9.5                 | 12.1    |
| 13    |             |              |               |                |             |            | 1.2          | .4           | .2           |                | .4      | .4            | 9.5                 | 12.1    |
| 14    |             |              |               | .4             |             |            | 2.9          | .5           | .1           |                | .4      | .4            | 11.9                | 16.1    |
| 15    |             |              |               | .4             |             |            | .8           | .5           | .1           | 11.5           | .4      | .4            | 11.9                | 26.0    |
| 16    | 1.7         | 1.2          | 1.9           | 1.8            | 1.5         | 2.2        | 3.5          | 2.5          | 1.2          | 30.0           | 1.7     | 1.2           | 70.0                | 120.0   |
| 17    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 18    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 19    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 20    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 21    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 22    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 23    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 24    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 25    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 26    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 27    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 28    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 29    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 30    | "           | "            | "             | "              | "           | "          | "            | "            | "            | "              | "       | "             | "                   | "       |
| 31    | 1.7         | 1.2          | 1.9           | 1.8            | 1.5         | 2.2        | 3.5          | 2.5          | 1.2          | 30.0           | 1.7     | 1.2           | 70.0                | 120.0   |
| Total | 27.2*       |              | 30.4*         | 29.6*          |             | 35.2*      |              | 50.0*        |              | 491.5*         |         | 24.6*         |                     | 2107.9* |
| CFS   |             | 19.2*        |               |                | 24.0*       |            | 75.6*        |              | 22.5*        |                | 36.8*   |               | 1247.4*             |         |
| Total | 54.4*       |              | 60.8*         | 59.2*          |             | 70.4*      |              | 100.0*       |              | 983.0*         |         | 49.2*         |                     | 4215.8* |
| A.F.  |             | 38.4*        |               |                | 48.0*       |            | 151.2*       |              | 45.0*        |                | 73.6*   |               | 2494.8*             |         |

NOTE: The above records were based on the fact that all diversions were full after May 16, 1964. In addition to the 4215.8 acre feet that were diverted another 2224.2 acre feet ran into Green River without being diverted. The total diverted out of Brush Creek during May of 1963 was 1996.01 cfs or 3992.02 acre feet.

DAILY DISTRIBUTION OF BRUSH CREEK FOR THE MONTH OF JUNE 1964

| DATE         | LITTLE BRUSH CREEK ABOVE RANCHES | REED TAYLOR  | WOODY SEARLE  | WILFORD EVANS | CONFLUENCE OF LITTLE BRUSH C. | MARVIN JACKSON | HUGH COLTON  | BERT HATCH    | SHINER RANCH   | HOWARD AINGE | SAM SESSION | SUNSHINE CANAL | MURRAYS | AINGE & EVANS | BURNS BENCH DIVIDER | TOTAL |
|--------------|----------------------------------|--------------|---------------|---------------|-------------------------------|----------------|--------------|---------------|----------------|--------------|-------------|----------------|---------|---------------|---------------------|-------|
| 1            | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.2            | 1.0          | 1.5           | 3.0            | 2.0          | .9          | 30.0           | 1.0     | 1.0           | 65.0                | 110.5 |
| 2            | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.2            | 1.0          | 1.5           | 3.0            | 2.0          | .9          | 30.0           | 1.0     | 1.0           | 65.0                | 110.5 |
| 3            | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.2            | 1.0          | 1.5           | 3.0            | 2.0          | .9          | 30.0           | 1.0     | 1.0           | 65.0                | 110.5 |
| 4            | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.2            | 1.0          | 1.5           | 3.0            | 2.0          | .9          | 30.0           | 1.0     | 1.0           | 65.0                | 110.5 |
| 5            | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.2            | 1.0          | 1.5           | 3.0            | 2.0          | .9          | 25.0           | 1.0     | 1.0           | 60.0                | 101.5 |
| 6            | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.2            | 1.0          | 1.5           | 3.0            | 2.0          | .9          | 25.0           | 1.0     | 1.0           | 60.0                | 101.5 |
| 7            | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.2            | 1.0          | 1.5           | 3.0            | 2.0          | .9          | 25.0           | 1.0     | 1.0           | 60.0                | 101.5 |
| 8            | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.2            | 1.0          | 1.5           | 3.0            | 2.0          | .9          | 25.0           | 1.0     | 1.0           | 60.0                | 101.5 |
| 9            | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.2            | 1.0          | 1.3           | 2.8            | 2.0          | .9          | 23.0           | 1.0     | 1.0           | 58.0                | 96.1  |
| 10           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.5            | 1.8          | .9          | 23.0           | 1.0     | 1.0           | 54.0                | 91.4  |
| 11           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.5            | 1.8          | .9          | 23.0           | 1.0     | 1.0           | 50.0                | 87.4  |
| 12           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.5            | 1.8          | .9          | 23.0           | 1.0     | 1.0           | 50.0                | 87.4  |
| 13           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.5            | 1.8          | .9          | 23.0           | 1.0     | 1.0           | 58.0                | 95.4  |
| 14           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.5            | 1.8          | .9          | 23.0           | 1.0     | 1.0           | 56.0                | 93.4  |
| 15           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.5            | 1.8          | .9          | 23.0           | 1.0     | 1.0           | 54.0                | 91.4  |
| 16           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.5            | 1.8          | .9          | 23.0           | 1.0     | 1.0           | 50.0                | 87.4  |
| 17           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.0            | 1.5          | .8          | 22.0           | 1.0     | 1.0           | 48.0                | 83.5  |
| 18           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.             | 1.5          | .8          | 22.0           | 1.0     | 1.0           | 48.0                | 83.5  |
| 19           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.             | 1.5          | .8          | 22.0           | 1.0     | 1.0           | 54.0                | 89.5  |
| 20           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.             | 1.5          | .8          | 22.0           | 1.0     | 1.0           | 50.0                | 85.5  |
| 21           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.             | 1.5          | .8          | 21.0           | 1.0     | 1.0           | 48.0                | 82.5  |
| 22           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.             | 1.5          | .8          | 21.0           | 1.0     | 1.0           | 48.0                | 82.5  |
| 23           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.             | 1.5          | .8          | 21.0           | 1.0     | 1.0           | 56.0                | 90.5  |
| 24           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.3           | 2.             | 1.5          | .8          | 21.0           | 1.0     | 1.0           | 50.0                | 84.5  |
| 25           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.0           | 2.             | 1.5          | .8          | 20.0           | .8      | .8            | 46.0                | 78.8  |
| 26           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.0           | 2.             | 1.4          | .8          | 20.0           | .8      | .8            | 44.0                | 76.7  |
| 27           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.0           | 2.             | 1.4          | .8          | 18.0           | .8      | .8            | 40.0                | 70.6  |
| 28           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.0           | 2.             | 1.2          | .7          | 18.0           | .7      | .7            | 36.0                | 66.3  |
| 29           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.0           | 2.             | 1.2          | .7          | 18.0           | .7      | .7            | 36.0                | 66.3  |
| 30           | 14.                              | 1.7          | 1.2           | 1.0           | 11.4                          | 1.0            | 1.0          | 1.0           | 2.             | 1.2          | .7          | 18.0           | .7      | .7            | 36.0                | 66.3  |
| 31           |                                  |              |               |               |                               |                |              |               |                |              |             |                |         |               |                     |       |
| <b>Total</b> | <b>51.0*</b>                     | <b>30.0*</b> | <b>31.8*</b>  | <b>37.3*</b>  | <b>50.5*</b>                  | <b>670.0*</b>  | <b>28.5*</b> | <b>1483.6</b> | <b>2684.9*</b> |              |             |                |         |               |                     |       |
| <b>CFS</b>   | <b>420.0*</b>                    | <b>36.0*</b> | <b>342.0*</b> | <b>30.0*</b>  | <b>72.3*</b>                  | <b>25.3*</b>   | <b>28.5*</b> | <b>1483.6</b> | <b>5469.8*</b> |              |             |                |         |               |                     |       |
| <b>Total</b> | <b>102.0*</b>                    | <b>60.0*</b> | <b>63.6*</b>  | <b>74.6</b>   | <b>101.0*</b>                 | <b>1340.0*</b> | <b>57.0*</b> | <b>3114</b>   | <b>5469.8*</b> |              |             |                |         |               |                     |       |
| <b>A.F.</b>  | <b>840.0*</b>                    | <b>72.0*</b> | <b>684.0*</b> | <b>60.0*</b>  | <b>77</b>                     | <b>144.6*</b>  | <b>50.6*</b> | <b>57.0*</b>  | <b>2967.2</b>  |              |             |                |         |               |                     |       |

NOTE: Total flow diverted for June 1963 out of Brush Creek 1,054.17 cfs or 2108.34 acre feet

DAILY DISTRIBUTION OF BRUSH CREEK FOR THE MONTH OF JULY 1964

| DATE | LITTLE BRUSH CREEK ABOVE RANCHES | REED TAYLOR | WOODY SEARLE | WILFORD EVANS | CONFLUENCE OF LITTLE BRUSH CREEK | MARVIN JACKSON | HUGH COLTON | BERT HATCH | SHINER RANCH | HOWARD AINGE | SAM SESSIONS | SUNSHINE CANAL | MURRAYS | AINGE AND EVANS | BURNS BENCH DIVIDER | TOTAL   |
|------|----------------------------------|-------------|--------------|---------------|----------------------------------|----------------|-------------|------------|--------------|--------------|--------------|----------------|---------|-----------------|---------------------|---------|
| 1    | 11.6                             | 1.7         | 1.1          | 1.5           |                                  | 0.0            | 0.0         | 0.0        | 1.4          | .7           | 1.3          | 19.1           | .69     | 2.2             | 18.0                | 47.69   |
| 2    | 11.6                             | 1.7         | 1.1          | 1.1           |                                  | 0.0            | 0.0         | 0.0        | 1.4          | .7           | 1.3          | 14.3           | .69     | 2.2             | 18.0                | 42.49   |
| 3    | 11.6                             | 1.7         | 1.1          | 1.1           |                                  | 0.0            | 0.0         | 0.0        | 1.4          | .7           | 1.3          | 14.3           | .69     | 2.2             | 18.0                | 42.49   |
| 4    | 11.6                             | 1.7         | 1.1          | 1.1           |                                  | 0.0            | 0.0         | 0.0        | 1.4          | .7           | 1.3          | 14.3           | .69     | 2.2             | 18.0                | 42.49   |
| 5    | 16.4                             | 1.7         | 1.1          | 1.1           |                                  | .4             | 0.0         | 1.5        | 1.4          | 1.6          | .2           | 16.8           | .21     | .4              | 17.6                | 44.01   |
| 6    | 16.4                             | 1.7         | 1.1          | 1.2           |                                  | .4             | 0.0         | 1.5        | 1.4          | .7           | .2           | 16.8           | .21     | .4              | 17.6                | 43.21   |
| 7    | 16.4                             | 1.7         | 1.1          | 1.2           |                                  | .4             | 0.0         | 1.5        | 1.4          | .7           | .2           | 16.8           | .21     | .4              | 17.6                | 43.21   |
| 8    | 16.4                             | 1.7         | 1.1          | 1.2           |                                  | .4             | 0.0         | 1.5        | 1.4          | .7           | .2           | 16.8           | .21     | .4              | 17.6                | 43.21   |
| 9    | 16.4                             | 1.7         | 1.1          | 1.2           |                                  | .4             | 0.0         | 1.5        | 1.4          | .7           | .2           | 16.8           | .21     | .4              | 17.6                | 43.21   |
| 10   | 11.8                             | 1.7         | 1.1          | 1.2           |                                  | .4             | 0.0         | 1.5        | 1.4          | .8           | .8           | 11.0           | .3      | .3              | 14.5                | 35.0    |
| 11   | 12.4                             | 1.7         | 1.1          | 1.2           |                                  | 1.7            | 0.0         | 0.0        | 1.4          | .8           | .0           | 11.0           | .0      | .0              | 14.5                | 33.4    |
| 12   | 12.4                             | 1.7         | 1.1          | 1.2           |                                  | 1.7            | 0.0         | 0.0        | 1.4          | 1.2          | .0           | 11.0           | .0      | .0              | 14.5                | 33.8    |
| 13   | 12.4                             | 1.7         | 1.1          | 1.2           |                                  | 1.7            | 0.0         | 0.0        | 0.0          | 1.2          | .0           | 11.0           | .0      | .0              | 14.5                | 32.4    |
| 14   | 12.4                             | 1.7         | 1.1          | 1.2           |                                  | 0.0            | 0.0         | 1.5        |              | 1.2          | .0           | 11.0           | .0      | .0              | 14.5                | 32.2    |
| 15   | 12.4                             | 1.7         | 1.1          | 1.2           | 13.9                             | 0.0            | 0.0         | 1.5        | 1.9          | 1.2          | .0           | 13.3           | .0      | .0              | 15.2                | 37.1    |
| 16   | 12.4                             | 1.7         | 1.1          | 1.2           | 13.9                             | 0.0            | 0.0         | 0.0        | 1.9          | 1.2          | 1.2          | 13.3           | .0      | .0              | 15.2                | 36.8    |
| 17   | 12.4                             | 1.7         | 1.1          | 1.2           | 13.9                             | 0.0            | 0.0         | 0.0        | 1.9          | 0.0          | 1.2          | 13.3           | 1.2     | .0              | 15.2                | 36.8    |
| 18   | 12.4                             | 1.7         | 1.1          | 1.2           | 13.9                             | 0.0            | 0.0         | 0.0        | 1.9          | 0.0          | 0.0          | 12.6           | 0.0     | 1.2             | 14.5                | 34.2    |
| 19   | 12.4                             | 1.7         | 1.1          | 1.2           | 13.9                             | 1.3            | 0.0         | 0.0        | 1.9          | 1.0          | 0.0          | 12.6           | 0.0     | .0              | 14.5                | 35.3    |
| 20   | 12.0                             | 1.7         | 1.1          | 1.2           | 10.4                             | 1.3            | 0.0         | 0.0        | 0.0          | 1.0          | 0.0          | 11.5           | 0.0     | .0              | 13.7                | 31.5    |
| 21   | 12.0                             | 1.7         | 1.1          | 1.2           | 10.4                             | 0.0            | 0.0         | 1.5        | 0.0          | 1.0          | 0.0          | 11.5           | 0.0     | .0              | 13.7                | 31.7    |
| 22   | 12.0                             | 1.7         | 1.1          | 1.2           | 10.4                             | 0.0            | 0.0         | 1.5        | 1.3          | 1.0          | 0.0          | 11.5           | 0.0     | .0              | 13.7                | 33.0    |
| 23   | 11.1                             | 1.7         | 1.1          | 1.2           | 10.4                             | 0.0            | 0.0         | 0.0        | 1.3          | 1.0          | 1.0          | 11.5           | 0.0     | .0              | 13.7                | 32.5    |
| 24   | 11.1                             | 1.7         | 1.1          | 1.2           | 10.4                             | 0.0            | 0.0         | 0.0        | 1.3          | 0.0          | 1.0          | 11.5           | 1.0     | 1.0             | 13.7                | 33.5    |
| 25   | 11.1                             | 1.7         | 1.1          | 1.2           | 10.4                             | 0.0            | 0.0         | 0.0        | 1.3          | 0.0          | 0.0          | 11.5           | 0.0     | 1.0             | 13.7                | 31.5    |
| 26   | 11.1                             | 1.7         | 1.1          | 1.2           | 10.4                             | 1.2            | 0.0         | 0.0        | 1.3          | .7           | 0.0          | 11.5           | 0.0     | 0.0             | 13.7                | 32.4    |
| 27   | 14.1                             | 1.7         | 1.1          | 1.2           | 14.3                             | 1.2            | 1.0         | 0.0        | 0.0          | .7           | 0.0          | 12.4           | 0.0     | 0.0             | 12.6                | 31.9    |
| 28   | 14.1                             | 1.7         | 1.1          | 1.2           | 14.3                             | 0.0            | 0.0         | 1.5        | 0.0          | .7           | 0.0          | 12.4           | 0.0     | 0.0             | 12.6                | 31.2    |
| 29   | 14.1                             | 1.7         | 1.1          | 1.2           | 14.3                             | 0.0            | 0.0         | 0.0        | 1.2          | .7           | 0.0          | 12.4           | 0.0     | 0.0             | 12.6                | 30.9    |
| 30   | 14.1                             | 1.7         | 1.1          | 1.2           | 14.3                             | 0.0            | 0.0         | 0.0        | 1.2          | .7           | .7           | 12.4           | 0.0     | 0.0             | 12.6                | 31.6    |
| 31   | 14.1                             | 1.7         | 1.1          | 1.2           | 14.3                             | 0.0            | 0.0         | 0.0        | 1.2          | 0.0          | .7           | 12.6           | .7      | .7              | 11.6                | 31.5    |
| cfs  | 152                              | 52          | 34           | 35            |                                  | 12             | 1.0         | 16.5       | 36.4         | 23.3         | 12           | 408.8          | 6.8     | 15.0            | 465.0               | 1122.21 |
| af   | 494                              | 104         | 68           | 70            |                                  | 24             | 2.0         | 33         | 72.8         | 46.6         | 24           | 817.6          | 13.6    | 30.0            | 930.0               | 2244.42 |

DAILY DISTRIBUTION OF BRUSH CREEK FOR THE MONTH OF AUGUST 1964

| DATE       | LITTLE BRUSH CREEK ABOVE RANCHES | REED TAYLOR | WOODEY SEARLE | WILFORD EVANS | CONFLUENCE OF LITTLE BRUSH CREEK | MARVIN JACKSON | HUGH COLTON | BERT HATCH | SHINER RANCHES | HOWARD AINGE | SAM SESSIONS | SUNSHINE CANAL | MURRAYS | AINGE AND EVANS | BURNS BENCH DIVIDER | TOTAL  |
|------------|----------------------------------|-------------|---------------|---------------|----------------------------------|----------------|-------------|------------|----------------|--------------|--------------|----------------|---------|-----------------|---------------------|--------|
| 1          | 14.1                             | 1.7         | 1.1           | 1.2           | 14.3                             | 0.0            | 0.0         | 0.0        | 1.2            | 0.0          | 0.0          | 12.6           | .7      | .7              | 11.6                | 30.8   |
| 2          | 14.1                             | 1.7         | 1.1           | 1.2           | 14.3                             | 1.2            | 0.0         | 0.0        |                | .7           | 0.0          | 12.6           | 0.0     | 0.0             | 11.6                | 30.1   |
| 3          | 14.1                             | 1.7         | 1.1           | 1.2           | 14.3                             | 1.2            | 1.2         | 0.0        |                | .7           | 0.0          | 12.6           | 0.0     | 0.0             | 11.6                | 31.3   |
| 4          | 11.1                             | 1.7         | 1.1           | 1.2           | 12.0                             | 0.0            | 0.0         | 1.5        |                | .7           | 0.0          | 11.9           | 0.0     | 0.0             | 4.6                 | 22.7   |
| 5          | 9.8                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | .7           | 0.0          | 11.9           | 0.0     | 0.0             | 8.7                 | 26.2   |
| 6          | 9.8                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | .7           | .5           | 9.3            | 0.0     | 0.0             | 5.4                 | 20.8   |
| 7          | 9.8                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | 0.0          | .5           | 9.3            | .7      | 0.0             | 5.4                 | 20.8   |
| 8          | 9.8                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | 0.0          | 0.0          | 9.3            | 0.0     | .7              | 5.4                 | 20.5   |
| 9          | 9.8                              | 1.7         | 1.1           | 1.2           |                                  | .9             | 0.0         | 0.0        | .9             | .7           | 0.0          | 9.3            | 0.0     | 0.0             | 5.4                 | 21.2   |
| 10         | 9.3                              | 1.7         | 1.1           | 1.2           |                                  | .9             | .9          | 0.0        | 0.0            | .7           | 0.0          | 9.9            | 0.0     | 0.0             | 5.4                 | 21.8   |
| 11         | 9.3                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 1.5        | 0.0            | .7           | 0.0          | 9.5            | 0.0     | 0.0             | 11.5                | 21.2   |
| 12         | 6.1                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | .7           | 0.0          | 5.8            | 0.0     | 0.0             | 8.8                 | 20.2   |
| 13         | 6.1                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | .7           | .7           | 7.1            | 0.0     | 0.0             | 8.8                 | 22.2   |
| 14         | 6.1                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | 0.0          | .7           | 6.9            | .7      | 0.0             | 5.1                 | 18.3   |
| 15         | 6.1                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | 0.0          | 0.0          | 6.9            | 0.0     | .7              | 16.0                | 28.5   |
| 16         | 5.9                              | 1.7         | 1.1           | 1.2           |                                  | .9             | 0.0         | 0.0        | .9             | .7           | 0.0          | 6.9            | 0.0     | 0.0             | 16.0                | 29.4   |
| 17         | 5.9                              | 1.7         | 1.1           | 1.2           |                                  | .9             | .9          | 0.0        | 0.0            | .7           | 0.0          | 6.9            | 0.0     | 0.0             | 16.0                | 29.4   |
| 18         | 5.9                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | .9         | 0.0            | .7           | 0.0          | 3.5            | 0.0     | 0.0             | 16.0                | 25.1   |
| 19         | 2.4                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | .7           | 0.0          | 3.5            | 0.0     | 0.0             | 7.3                 | 17.1   |
| 20         | 2.4                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | .7           | .7           | 3.5            | 0.0     | 0.0             | 7.3                 | 17.1   |
| 21         | 2.4                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | 0.0          | .7           | 3.5            | .7      | 0.0             | 7.3                 | 17.1   |
| 22         | 2.4                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .9             | 0.0          | 0.0          | 3.5            | 0.0     | .7              | 7.3                 | 16.4   |
| 23         | 2.4                              | 1.7         | 1.1           | 1.2           |                                  | .9             | 0.0         | 0.0        | .9             | .4           | 0.0          | 3.5            | 0.0     | 0.0             | 7.3                 | 17.0   |
| 24         | 2.4                              | 1.7         | 1.1           | 1.2           |                                  | .9             | .9          | 0.0        | 0.0            | .4           | 0.0          | 1.0            | 0.0     | 0.0             | 7.3                 | 14.5   |
| 25         | 2.4                              | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | .9         | 0.0            | .4           | 0.0          | 1.0            | 0.0     | 0.0             | 7.0                 | 13.3   |
| 26         |                                  | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .7             | .4           | 0.0          | 1.0            | 0.0     | 0.0             | 7.0                 | 13.3   |
| 27         |                                  | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .7             | .4           | .4           | 1.0            | 0.0     | 0.0             | 7.0                 | 13.1   |
| 28         |                                  | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .7             | 0.0          | .4           | 1.0            | .4      | 0.0             | 7.0                 | 13.5   |
| 29         |                                  | 1.7         | 1.1           | 1.2           |                                  | 0.0            | 0.0         | 0.0        | .7             | 0.0          | 0.0          | 1.0            | 0.0     | .7              | 7.0                 | 13.4   |
| 30         |                                  | 1.7         | 1.1           | 1.2           |                                  | .7             | 0.0         | 0.0        | .7             | .4           | 0.0          | 1.0            | 0.0     | 0.0             | 7.0                 | 13.8   |
| 31         |                                  | 1.7         | 1.1           | 1.2           |                                  | .7             | .7          | 0.0        | 0.0            | .4           | 0.0          | 1.0            | 0.0     | 0.0             | 7.0                 | 13.3   |
| TOTAL CFS  | 52.7                             | 34.         | 37.           |               |                                  | 9.2            | 4.6         | 4.8        | 18.2           | 12.9         | 4.6          | 187.7          | 3.2     | 3.5             | 266.1               | 604.5  |
| TOTAL A.F. |                                  |             |               |               |                                  | 18.4           | 9.2         | 9.6        | 36.4           | 25.8         | 9.2          | 375.4          | 6.4     | 7.0             | 532.2               | 1208.6 |

DAILY DISTRIBUTION OF BRUSH CREEK FOR MONTH OF SEPTEMBER 1964

| DATE  | REED TAYLOR | WODDEY SEARLE | WILFORD EVANS | MARVIN JACKSON | HUGH COLTON<br>(PUMP) | BERT HATCH<br>(PUMP) | SHINER RANCH | HOWARD AND VERA<br>AINGE | SAM SESSIONS | MURRAYS, AINGE &<br>EVANS | BURNS BENCH<br>DIVIDER | TOTAL |
|-------|-------------|---------------|---------------|----------------|-----------------------|----------------------|--------------|--------------------------|--------------|---------------------------|------------------------|-------|
| 1     | 1.7         | 1.1           | 1.2           |                |                       | 1.5                  |              | .4                       |              |                           | 5.9                    | 12.5  |
| 2     | "           | "             | "             |                |                       |                      | 1.2          | .4                       |              |                           | 5.9                    | 12.2  |
| 3     | "           | "             | "             |                |                       |                      | 1.2          | .4                       | .4           |                           | 5.9                    | 11.9  |
| 4     | "           | "             | "             |                |                       |                      | .6           |                          | .4           |                           | 6.2                    | 11.2  |
| 5     | "           | "             | "             |                |                       |                      |              |                          |              | .4                        | 6.2                    | 10.6  |
| 6     | "           | "             | "             | .7             |                       |                      |              | .4                       |              | .4                        | 6.2                    | 11.7  |
| 7     | "           | "             | "             | .7             |                       |                      |              | .4                       |              | .4                        | 6.2                    | 11.7  |
| 8     | "           | "             | "             |                |                       | 1.5                  |              | .4                       |              |                           | 5.9                    | 11.8  |
| 9     | "           | "             | "             |                |                       |                      | .7           | .4                       |              |                           | 5.9                    | 11.0  |
| 10    | "           | "             | "             |                |                       |                      | .7           | .4                       | .4           |                           | 5.9                    | 11.4  |
| 11    | "           | "             | "             |                |                       |                      | .7           |                          | .4           | .4                        | 5.9                    | 11.4  |
| 12    | "           | "             | "             |                |                       |                      | .7           |                          | .4           | .4                        | 6.5                    | 11.6  |
| 13    | "           | "             | "             | .7             |                       |                      | .7           | .4                       |              | .4                        | 6.5                    | 12.7  |
| 14    | "           | "             | "             | .7             |                       |                      |              | .4                       |              |                           | 6.5                    | 11.6  |
| 15    | "           | "             | "             |                |                       | 1.5                  |              | .4                       |              |                           | 6.5                    | 12.4  |
| 16    | "           | "             | "             |                |                       |                      | .7           | .4                       |              |                           | 6.5                    | 11.6  |
| 17    | "           | "             | "             |                |                       |                      | .7           | .4                       | .4           |                           | 6.5                    | 12.0  |
| 18    | "           | "             | "             |                |                       |                      | .7           |                          | .4           | .4                        | 6.5                    | 12.0  |
| 19    | "           | "             | "             |                |                       |                      | .7           |                          | .4           | .4                        | 6.5                    | 11.6  |
| 20    | "           | "             | "             | .7             |                       |                      | .7           | .4                       |              | .4                        | 6.5                    | 12.7  |
| 21    | "           | "             | "             | .7             |                       |                      |              | .4                       |              |                           | 6.5                    | 11.6  |
| 22    | "           | "             | "             |                |                       |                      |              | .4                       |              |                           | 6.5                    | 10.9  |
| 23    | "           | "             | "             |                |                       |                      | .6           | .4                       |              |                           | 6.5                    | 11.5  |
| 24    | "           | "             | "             |                |                       |                      | .6           | .4                       | .4           |                           | 6.5                    | 11.9  |
| 25    | "           | "             | "             |                |                       |                      | .6           |                          | .4           | .4                        | 6.5                    | 11.9  |
| 26    | "           | "             | "             |                |                       |                      | .6           |                          |              | .4                        | 6.5                    | 11.5  |
| 27    | "           | "             | "             | .7             |                       |                      | .6           | .4                       |              | .4                        | 6.5                    | 12.6  |
| 28    | "           | "             | "             | .7             |                       |                      |              | .4                       |              |                           | 6.5                    | 11.6  |
| 29    | "           | "             | "             |                |                       |                      |              | .4                       |              |                           | 6.5                    | 10.9  |
| 30    | "           | "             | "             |                |                       |                      |              | .4                       |              |                           | 6.5                    | 10.9  |
| Total |             | 33.0          |               | 2.8            |                       | 4.5                  |              | 8.8                      |              | 4.8                       |                        | 350.9 |
| Cfs   | 51.0        |               | 36.0          |                | 0.0                   |                      | 13.0         |                          | 3.2          |                           | 189.6                  |       |
| Total |             | 66.0          |               | 5.6            |                       | 9.0                  |              | 17.6                     |              | 9.6                       |                        | 701.8 |
| A.F.  | 102.0       |               | 72.0          |                | 0.0                   |                      | 26.0         |                          | 6.4          |                           | 379.2                  |       |

DAILY DISTRIBUTION OF BRUSH CREEK FOR MONTH OF OCTOBER 1964

| DATE  | REED TAYLOR | WOODDEY SEARLE | WILFORD EVANS | MARVIN JACKSON | HUGH COLTON<br>(PUMP) | BERT HATCH (PUMP) | SHINER RANCH | HOWARD & VERA<br>AINGE | SAM SESSIONS | AINGE, EVANS &<br>MIRRAVS | BURNS-BENCH<br>DIVISION | TOTAL |
|-------|-------------|----------------|---------------|----------------|-----------------------|-------------------|--------------|------------------------|--------------|---------------------------|-------------------------|-------|
| 1     | 1.7         | 1.1            | 1.2           | 0.0            | 0.0                   | 0.0               |              | .4                     | .4           |                           | 5.9                     | 10.7  |
| 2     | "           | "              | "             |                |                       |                   |              |                        | .4           | .4                        | 5.9                     | 10.7  |
| 3     | "           | "              | "             |                |                       |                   |              |                        |              | .4                        | 5.9                     | 10.3  |
| 4     | "           | "              | "             |                |                       |                   |              | .4                     |              |                           | 5.9                     | 10.3  |
| 5     | "           | "              | "             |                |                       |                   |              | .4                     |              |                           | 5.9                     | 10.3  |
| 6     | "           | "              | "             |                |                       |                   |              | .4                     |              |                           | 5.9                     | 10.3  |
| 7     | "           | "              | "             |                |                       |                   | .6           | .4                     |              |                           | 5.9                     | 10.9  |
| 8     | "           | "              | "             |                |                       |                   | .6           | .4                     | .4           |                           | 5.9                     | 11.3  |
| 9     | "           | "              | "             |                |                       |                   | .6           |                        | .4           | .4                        | 5.9                     | 11.3  |
| 10    | "           | "              | "             |                |                       |                   | .6           |                        |              | .4                        | 5.9                     | 10.9  |
| 11    | "           | "              | "             |                |                       |                   | .6           | .4                     |              | .4                        | 5.6                     | 11.0  |
| 12    | "           | "              | "             |                |                       |                   |              | .4                     |              |                           | 5.6                     | 10.0  |
| 13    | "           | "              | "             |                |                       |                   |              | .4                     |              |                           | 5.6                     | 10.0  |
| 14    | "           | "              | "             |                |                       |                   |              | .4                     |              |                           | 5.6                     | 10.0  |
| 15    | "           | "              | "             |                |                       |                   |              | .4                     | .4           |                           | 5.6                     | 10.4  |
| TOTAL |             | 16.5           |               |                |                       | 3.0               |              | 2.0                    |              | 87.0                      |                         |       |
| CFS   | 25.5        |                | 18.0          |                |                       |                   | 4.4          |                        | 2.0          |                           |                         | 158.4 |
| TOTAL |             | 33.0           |               |                |                       | 6.0               |              | 4.0                    |              | 174.0                     |                         |       |
| A.F.  | 51.0        |                | 36.0          |                |                       |                   | 8.8          |                        | 4.0          |                           |                         | 316.8 |