UNITED STATES
DEPARTMENT OF THE INTERIOR
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FIELD DATA DESCRIBING THE MOVEMENT AND STORAGE OF SEDIMENT IN THE EAST FORK RIVER, WYOMING

PART I. River Hydraulics and Sediment Transport, 1979

By William W. Emmett, Robert M. Myrick, and Robert H. Meade

Open-File Report 80-1189

Denver, Colorado

1980

UNITED STATES DEPARTMENT OF THE INTERIOR

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ABSTRACT

Bed-material gradation and water-surface slope were determined for a 3.3-kilometer reach of East Fork River, Wyoming. During peak snowmelt runoff, frequent measurements of water discharge and sediment-transport rate provided data describing the inflow and outflow of water and sediment. In spring 1979, bankfull stage was exceeded on 8 days. Maximum discharge was about 32 cubic meters per second, which has a recurrence interval of about 2 years. The median particle size of bed material is 1.28 millimeters; the 35 and 65 percentiles are represented by diameters of 0.50 and 2.88 millimeters, respectively. The average water-surface slope in the reach is 0.0007 and varies little with river stage. Bedload-transport rates ranged from a little less than 0.001 to a little more than 0.1 kilograms per meter of channel width per second. Median bedload grain size, with several exceptions, ranged from 0.4 to 1.5 millimeters. Gravel-size particles generally constituted 10 to 40 percent of the bedload. Suspended-sediment concentrations ranged from 6 to 95 milligrams per liter. Suspended sediment smaller than sand constituted about half the measured suspended sediment, ranging from 17 to 81 percent.

INTRODUCTION

For a decade, East Fork River in western Wyoming has been a field laboratory for the study of bedload-sediment transport. Previous studies in East Fork River and its principal tributary, Muddy Creek, have been reported by Andrews (1979a, 1979b), Bennett and Nordin (1977), Dietrich and others (1979), Emmett (1980a), Leopold and Emmett (1976, 1977), Lisle (1979), and Mahoney and others (1976). In 1979, the program was intensified to provide more definitive field data on bedload transport in a stream where the distribution of transportable material on the streambed was not uniform.

This report is the first of a series that tabulates the field data collected during the snowmelt runoff season of 1979 in a 3.3-km (kilometer) reach of East Fork River, Wyoming. Characteristics of the study reach and of the drainage basin upstream are summarized herein, as well as by Andrews (1979b) and Mahoney and others (1976). This report also contains data on river stage, river discharge, bed-material particle size, water-surface slope, and rate and gradation of transported sediment.

Other reports in the series will contain data on river-bed elevations that were measured and the types of bed material that were observed over a period of several months in 39 cross sections in the reach (Meade and others, 1980, Part II), and concentrations of fluorescent tracer particles (Part III). One interpretive report has been prepared at this time (Meade and others, 1981).

BACKGROUND

The East Fork River heads in the Wind River Range of Wyoming west of the Continental Divide and east and south of Mt. Bonneville (fig. 1). From a series of small alpine lakes and an altitude of approximately 3,400 m (meter), the East Fork River descends about 1,250 m in 50 river km to the project reach described in this report. Downstream from the study reach, it continues another 50 km to its confluence with the New Fork River, tributary to the Green River.

The study reach is 3.3 km in length and terminates downstream at a bedload trap constructed across the river (Leopold and Emmett, 1976; Emmett, 1980a). The general configuration of the study reach is shown on figure 2; the number shown at each section is the centerline distance in meters upstream of the bedload trap.

The bedload trap is at lat 42°40'23" N., long 109°34'16" W. The drainage area of the East Fork River at this point is about 500 km^2. Approximately half of this basin area lies within the Wind River Mountains; the other half of the basin area is provided by a major tributary, Muddy Creek, that enters the East Fork River about 4 km upstream of the bedload trap and drains an upland of rolling hills underlain by lower Tertiary sandstone and shale of the Wasatch Formation. The mountain part of the basin is underlain by granitic and metamorphic rocks, mostly of Precambrian age. Much of the sand portion of the sediment load for the East Fork River comes from the Muddy Creek basin, but most of the water during high flow comes from melting snow of the mountain area.

Along the study reach, the East Fork River meanders in a flood plain averaging 100 m in width, which, in turn, is confined by the Wasatch Formation or by glacial outwash terraces of sand and gravel. The tread or surface of the most prominent terrace is some 5 m above the flood plain. The terraces and outcrops of Wasatch are sources of fresh sand and gravel debris wherever the river impinges laterally against them.

All elevations reported herein are referenced to the National Geodetic Vertical Datum (NGVD) of 1929 by two complete leveling surveys, conducted in May and October 1979.

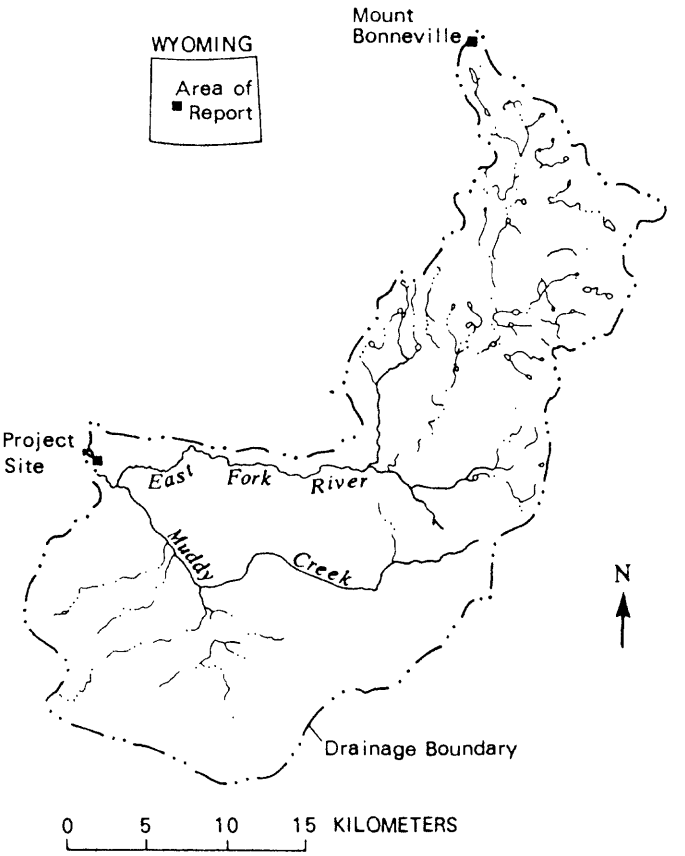

Figure 1.--Map of the East Fork River, Wyoming, drainage area.

STAGE AND DISCHARGE

Mean annual precipitation in the drainage basin ranges from about 300 mm (millimeter) in the vicinity of the study reach to an estimated 1200 mm in the headwater areas. This can be compared to a mean annual runoff of about 450 mm at gaging station 09203000, East Fork River near Big Sandy, which is located about 22 river km upstream of the study reach. This value of runoff corresponds to a mean annual discharge of about 3 m^3/s (cubic meters per second) which is approximately valid for the study reach as well. Mean annual discharge is equalled or exceeded about 25 percent of the time.

Most of the precipitation occurs as snow. The high-flow season caused by spring snowmelt in the mountains extends from mid-May to early July and accounts for about 75 percent of the total annual flow. During spring runoff, diurnal fluctuations through the study reach are characterized by a rising stage during the morning, a peak stage at midday, and a falling stage during the afternoon. This fluctuation at the study reach reflects snowmelt in the mountains from the previous day.

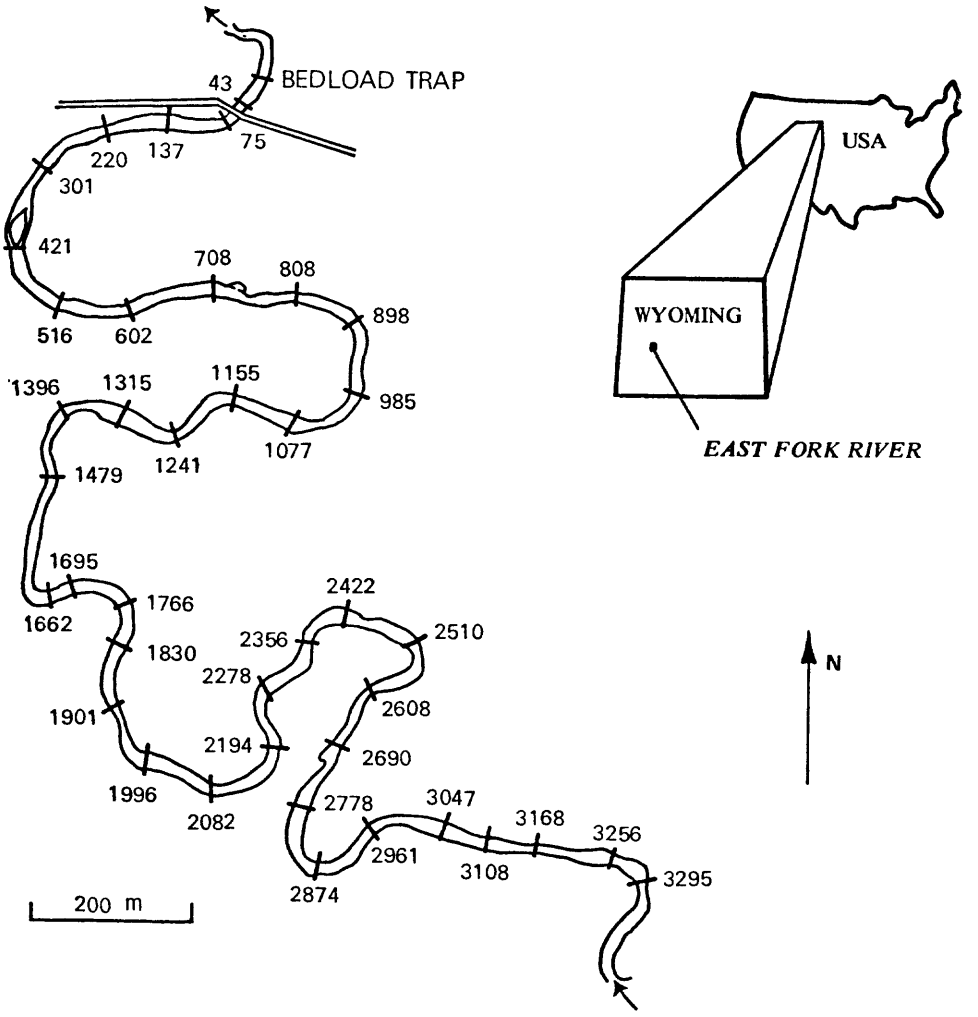

Figure 2.--Map of the 3.3-km study reach, East Fork River, Wyoming.

Three continuous stage recorders were located at sections 0000, 2505, and 3295 (see fig. 2). Hourly values of gage height provided by these records are listed in tables 1-3, respectively. The record for all sections includes the spring runoff period, and for section 0000 extends to late summer.

Measurements were made at sections 0000 and 3256 to define rating curves relating gage height and water discharge. These discharge measurements are summarized in tables 4 and 5, respectively. For section 0000, the upper part of table 4 lists data of the complete discharge measurement; the lower part of table 4 expresses effective values of the discharge measurement, or that part of the total discharge occurring above the 14.6-m width of the bedload trap. For section 3256, shallow overbank flows on the left-bank flood plain were not measured and all values are listed as effective values, or that part of the

total discharge occurring within or above the main channel. All movement of bed material occurred within the measured width.

Stage-discharge relations determined for the measurements of tables 4 and 5 were applied to the stage records of tables 1 and 3 to give hourly values of discharge for the runoff season at sections 0000 and 3295. These hourly values of discharge are listed in tables 6 and 7.

The level of the flood plain corresponds with the bankfull stage of the river, at which the water has an average depth of about 1.2 m. The bankfull discharge is about 20 m^3/s. In 1979, bankfull discharge was exceeded on 8 days, or about 2 percent of the time. Maximum discharge in 1979 was about 32 m^3/s, which has a recurrence interval of about 2 years.

BED-MATERIAL GRADATION

Composition of the streambed of the East Fork River at the study area is predominantly sand, but in the 3.3-km study reach of river, gravel bars are spaced at regular intervals. At each section shown in figure 2, bed-material samples were collected. Cross-channel variability in grain size at each section was determined by separately bagging and sieving samples according to the increment of channel width each sample represented.

Data on the size analyses of each sample are included in table 8. Also given in table 8 is the weighted mean grain-size distribution for each section, determined by giving each sample a weight proportional to the increment of channel width it represents. The last line in table 8 provides a weighted mean grain-size distribution for the entire study reach, determined by giving the mean size distribution at each section a weight proportional to the increment of channel length it represents.

A statistical summary of the grain-size distributions of table 8 is given in table 9. These are the data giving grain diameters at given percent finer values. The last line of table 9 provides the summary for the reach. The median grain size, d_{50}, is 1.28 mm; d_{35} and d_{65} are represented by diameters of 0.50 and 2.88 mm; and d_{16} and d_{84} show values of 0.30 and 13.31 mm.

WATER-SURFACE SLOPE

Staff gages located at each section shown on figure 2 allow for determining water-surface elevations. At several times during spring 1979, the staff gages were read either (1) in a near-synoptic manner, or (2) during times of no stage fluctuations, and these observations may be used for determining the slope of the water surface. However, since only one gage was located at each section, superelevations in water surface, especially at higher flows, sometimes cause apparent erratic readings but do not greatly affect mean values of slope.

Observations of water-surface elevations are listed in table 10 by date, time, and section. Cross-referencing times of table 10 to those in tables 1-3 provides a measure of the influence of any diurnal fluctuation.

Least-squares linear-regression techniques were applied to the several sets of slope data in table 10. A summary of this statistical analysis is included as table 11 and shows mean values of water-surface slope ranging from 0.00068 at low flow to 0.00072 at near bankfull stage, and reversing to 0.00068 at maximum flow. Most moderate to high flows have water-slope values approximated by 0.0007.

BEDLOAD

Bedload-transport rates were determined by operation of the bedload trap (for a description of this operation, see Leopold and Emmett, 1976, 1977, and Emmett, 1980a) or the use of a Helley-Smith bedload sampler (see Emmett, 1980a, 1980b, and Helley and Smith, 1971). Procedures described by the cited authors were used in the present study and, for the use of the Helley-Smith bedload sampler, are identical to those prescribed in the interim guidelines issued by the U.S. Geological Survey for using the Helley-Smith sampler.

Tables 12 and 16 list the summary data of river hydraulics and bedload transport for sections 0000 and 3256, respectively. At section 0000, the effective width of the channel is constant at 14.6 m, the width of the bedload trap. Included in table 12 are both the total river discharge and the effective discharge, or that discharge above the 14.6-m width of bedload transport. Other river-hydraulic data in table 12 are derived from the effective values of discharge. A footnote to the table identifies which transport rates were determined by using the conveyor-belt sampler and which were determined by using the Helley-Smith sampler.

At section 3256, the effective width of the channel, that width over which bedload transport occurs, is variable with river stage. Table 16 includes values of effective width; the other values of river hydraulics presented are those associated with the effective width. All values of transport rate were determined using a Helley-Smith bedload sampler.

Tables 13 and 17, for sections 0000 and 3256, respectively, present complete grain-size distribution data for the bedload whose transport rates are listed in tables 12 and 16. Tables 14 and 18 provide statistical summaries of the grain-size distributions presented in tables 13 and 17, respectively. The statistical summaries give grain diameters at selected percent-finer values. The median grain diameter, d_{50} (or 50 percent finer than), is also included on tables 12 and 17 for convenience of the reader.

SUSPENDED SEDIMENT

Suspended-sediment concentrations were determined by collecting depth-integrated water samples at equal-width increments using either a DH-48 or D-74 sampler (see Guy and Norman, 1970). Tables 15 and 19, for sections 0000 and 3256, respectively, list the determined values of concentration. Suspended-sediment load, in t/day (tons per day), may be computed as 0.0864 x discharge x concentration; discharge is in m^3/s and concentration is in mg/L (milligrams per liter). The tables also list values of water temperature at time of observation and the percent finer at the silt-sand break (0.062 mm).

ACKNOWLEDGEMENTS

We thank the following for helping us collect data from East Fork River during the 1979 field season: K. D. Crowley, W. F. Curtis, T. R. Eschner, E. M. Freyer, D. C. Geiger, E. M. Held, J. E. Kircher, P. C. Klingeman, L. B. Laird, L. B. Leopold, H. A. Martinson (formerly Mahoney), R. C. Mengis, M. P. Muir, T. L. Nelson, C. F. Nordin, B. Parks, J. J. Patry, K. L. Prestegaard, S. A. Stewart, A. L. Strong, A. V. Vecchia, A. Werritty, G. P. Williams, and K. M. Williams.

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TABLES

TABLE 1.- HOURLY GAGE HEIGHT, IN METERS(1), AT SECTION 0000, EAST FORK RIVER WYOMING, 1979

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
5-10	5.360	5.360	5.355	5.350	5.350	5.350	5.345	5.340	5.335	5.330	5.325	5.320
	5.315	5.315	5.315	5.315	5.315	5.315	5.315	5.315	5.315	5.315	5.320	5.325
5-11	5.330	5.335	5.335	5.330	5.330	5.330	5.330	5.325	5.325	5.325	5.320	5.320
	5.315	5.310	5.310	5.305	5.305	5.300	5.300	5.300	5.300	5.305	5.315	5.315
5-12	5.320	5.330	5.325	5.325	5.325	5.325	5.325	5.325	5.320	5.320	5.320	5.320
	5.320	5.320	5.320	5.315	5.315	5.315	5.315	5.315	5.315	5.310	5.310	5.310
5-13	5.310	5.315	5.315	5.315	5.315	5.315	5.315	5.310	5.310	5.310	5.305	5.305
	5.305	5.300	5.295	5.290	5.285	5.280	5.275	5.270	5.265	5.265	5.265	5.265
5-14	5.270	5.275	5.275	5.280	5.280	5.285	5.285	5.290	5.295	5.300	5.300	5.300
	5.300	5.300	5.300	5.300	5.295	5.290	5.285	5.285	5.285	5.280	5.285	5.290
5-15	5.290	5.300	5.310	5.315	5.325	5.335	5.340	5.350	5.355	5.360	5.365	5.370
	5.385	5.375	5.370	5.370	5.365	5.360	5.360	5.360	5.360	5.370	5.380	5.385
5-16	5.395	5.440	5.395	5.440	5.455	5.465	5.475	5.485	5.490	5.495	5.490	5.485
	5.485	5.485	5.480	5.475	5.470	5.460	5.455	5.460	5.460	5.465	5.475	5.475
5-17	5.475	5.480	5.495	5.505	5.520	5.530	5.540	5.550	5.550	5.550	5.550	5.545
	5.545	5.540	5.540	5.535	5.535	5.520	5.510	5.500	5.505	5.505	5.515	5.525
5-18	5.560	5.590	5.620	5.650	5.680	5.695	5.710	5.720	5.725	5.720	5.715	5.710
	5.695	5.675	5.665	5.665	5.660	5.665	5.670	5.675	5.680	5.680	5.695	5.710
5-19	5.730	5.750	5.775	5.795	5.805	5.815	5.820	5.820	5.820	5.820	5.805	5.795
	5.785	5.770	5.760	5.750	5.745	5.750	5.745	5.735	5.735	5.745	5.760	5.790
5-20	5.820	5.845	5.880	5.910	5.930	5.955	5.970	5.975	5.980	5.985	5.985	5.975
	5.970	5.960	5.955	5.945	5.950	5.955	5.955	5.955	5.945	5.945	5.955	5.975
5-21	5.990	6.015	6.030	6.045	6.065	6.080	6.095	6.100	6.100	6.105	6.100	6.095
	6.085	6.075	6.060	6.045	6.035	6.025	6.015	6.010	6.010	6.020	6.040	6.065
5-22	6.085	6.110	6.130	6.155	6.180	6.195	6.215	6.235	6.250	6.265	6.275	6.275
	6.275	6.260	6.250	6.230	6.210	6.190	6.170	6.155	6.145	6.145	6.150	6.155
5-23	6.175	6.190	6.210	6.230	6.250	6.275	6.300	6.320	6.335	6.350	6.365	6.365
	6.360	6.350	6.330	6.315	6.295	6.275	6.255	6.235	6.225	6.215	6.210	6.215
5-24	6.225	6.240	6.260	6.285	6.305	6.330	6.350	6.370	6.385	6.400	6.415	6.420
	6.425	6.420	6.415	6.400	6.390	6.375	6.365	6.350	6.340	6.325	6.315	6.305
5-25	6.300	6.295	6.295	6.305	6.315	6.320	6.340	6.360	6.370	6.385	6.385	6.390
	6.385	6.385	6.380	6.375	6.365	6.355	6.345	6.330	6.325	6.315	6.305	6.305
5-26	6.305	6.315	6.320	6.325	6.335	6.350	6.360	6.370	6.380	6.390	6.400	6.400
	6.405	6.405	6.410	6.405	6.400	6.395	6.390	6.380	6.375	6.365	6.360	6.360
5-27	6.365	6.375	6.400	6.420	6.450	6.475	6.505	6.535	6.560	6.585	6.600	6.605
	6.605	6.605	6.600	6.600	6.585	6.575	6.560	6.545	6.525	6.510	6.500	6.490
5-28	6.480	6.470	6.470	6.470	6.480	6.485	6.500	6.510	6.520	6.525	6.530	6.530
	6.525	6.520	6.515	6.505	6.495	6.485	6.470	6.460	6.445	6.430	6.415	6.400
5-29	6.385	6.375	6.370	6.365	6.370	6.375	6.385	6.395	6.405	6.420	6.430	6.445
	6.460	6.475	6.490	6.495	6.505	6.510	6.505	6.500	6.490	6.480*	6.470*	6.460*
5-30	6.450*	6.435*	6.420*	6.405*	6.390*	6.375*	6.355*	6.335*	6.320	6.295	6.250	6.215
	6.165	6.140	6.115	6.095	6.050	6.045	6.040	6.040	6.035	6.030	6.025	6.015
5-31	5.995*	5.980*	5.965*	5.945	5.930	5.910	5.890	5.875	5.860	5.845	5.835	5.820
	5.815	5.810	5.800	5.790	5.780	5.765	5.760	5.755	5.750	5.750	5.740	5.730
6- 1	5.725	5.720	5.710	5.705	5.700	5.695	5.685	5.680	5.670	5.665	5.655	5.640
	5.630	5.610	5.585	5.580	5.570	5.565	5.555	5.570	5.585	5.595	5.590	5.585
6- 2	5.580	5.570	5.570	5.570	5.570	5.570	5.570	5.570	5.565	5.565	5.560	5.555
	5.550	5.540	5.530	5.525	5.515	5.505	5.500	5.495	5.505	5.515	5.520	5.520
6- 3	5.520	5.525	5.545	5.565	5.590	5.610	5.625	5.635	5.640	5.645	5.645	5.645
	5.640	5.635	5.630	5.625	5.620	5.610	5.615	5.625	5.630	5.635	5.640	5.640
6- 4	5.645	5.665	5.690	5.720	5.745	5.770	5.790	5.810	5.820	5.830	5.835	5.835
	5.835	5.830	5.825	5.815	5.810	5.805	5.800	5.795	5.795	5.795	5.810	5.820
6- 5	5.835	5.850	5.875	5.900	5.925	5.945	5.970	5.990	6.010	6.025	6.040	6.055
	6.065	6.065	6.055	6.050	6.040	6.030	6.015	6.005	5.995	5.980	5.965	5.960
6- 6	5.970	5.980	6.000	6.020	6.035	6.055	6.080	6.100	6.120	6.135	6.150	6.165
	6.175	6.180	6.180	6.175	6.170	6.160	6.150	6.140	6.130	6.120	6.105	6.095

TABLE 1.- HOURLY GAGE HEIGHT, IN METERS(1), AT SECTION 0000, EAST FORK RIVER WYOMING, 1974--CONTINUED

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
6- 7	6.040	6.070	6.070	6.070	6.070	6.070	6.075	6.040	6.075	6.065	6.050	6.040
	6.015	5.990	5.965	5.940	5.925	5.920	5.920	5.920	5.925	5.920	5.905	5.890
6- 8	5.870	5.845	5.830	5.820	5.805	5.795	5.785	5.775	5.760	5.750	5.740	5.730
	5.715	5.705	5.690	5.680	5.670	5.655	5.645	5.635	5.630	5.625	5.630	5.635
6- 9	5.635	5.625	5.615	5.610	5.600	5.595	5.585	5.575	5.565	5.555	5.540	5.530
	5.525	5.520	5.510	5.505	5.495	5.490	5.485	5.490	5.500	5.515	5.515	5.510
6-10	5.505	5.505	5.500	5.500	5.500	5.500	5.505	5.510	5.510	5.515	5.515	5.510
	5.510	5.505	5.500	5.495	5.495	5.490	5.485	5.485	5.485	5.490	5.495	5.495
6-11	5.500	5.500	5.505	5.525	5.560	5.590	5.620	5.645	5.665	5.670	5.680	5.685
	5.690	5.690	5.685	5.680	5.675	5.670	5.665	5.660	5.655	5.650	5.650	5.655
6-12	5.665	5.675	5.695	5.715	5.735	5.760	5.780	5.795	5.810	5.820	5.825	5.830
	5.830	5.825	5.820	5.815	5.800	5.790	5.780	5.775	5.760	5.750	5.750	5.760
6-13	5.770	5.795	5.820	5.855	5.885	5.915	5.945	5.975	5.995	6.015	6.030	6.045
	6.060	6.065	6.065	6.060	6.050	6.025	6.005	5.980	5.955	5.935	5.920	5.915
6-14	5.910	5.915	5.940	5.970	6.000	6.030	6.065	6.100	6.120	6.140	6.155	6.170
	6.180	6.190	6.185	6.175	6.155	6.140	6.115	6.095	6.070	6.045	6.025	6.005
6-15	5.995	5.985	5.995	6.010	6.025	6.045	6.065	6.085	6.095	6.110	6.115	6.115
	6.110	6.100	6.095	6.065	6.035	6.010	5.980	5.950	5.925	5.900	5.885	5.865
6-16	5.850	5.835	5.830	5.830	5.830	5.830	5.835	5.840	5.845	5.840	5.835	5.830
	5.825	5.820	5.810	5.795	5.785	5.775	5.760	5.745	5.735	5.720	5.710	5.700
6-17	5.690	5.690	5.690	5.695	5.705	5.720	5.725	5.735	5.745	5.750	5.750	5.750
	5.740	5.725	5.715	5.700	5.690	5.680	5.655	5.650	5.635	5.625	5.615	5.605
6-18	5.600	5.595	5.600	5.610	5.625	5.640	5.655	5.665	5.675	5.680	5.690	5.690
	5.685	5.680	5.680	5.675	5.665	5.650	5.640	5.635	5.625	5.615	5.605	5.600
6-19	5.595	5.590	5.585	5.575	5.570	5.565	5.560	5.550	5.545	5.540	5.535	5.530
	5.525	5.515	5.510	5.505	5.495	5.490	5.485	5.480	5.475	5.470	5.465	5.460
6-20	5.460	5.455	5.450	5.450	5.445	5.445	5.440	5.440	5.440	5.435	5.435	5.430
	5.420	5.410	5.405	5.405	5.400	5.395	5.395	5.390	5.390	5.385	5.385	5.380
6-21	5.380	5.375	5.375	5.375	5.370	5.370	5.370	5.370	5.370	5.375	5.375	5.380
	5.375	5.375	5.370	5.370	5.370	5.370	5.365	5.365	5.365	5.360	5.360	5.355
6-22	5.355	5.355	5.350	5.350	5.350	5.350	5.350	5.360	5.375	5.395	5.410	5.425
	5.430	5.430	5.430	5.425	5.420	5.415	5.410	5.405	5.405	5.400	5.395	5.390
6-23	5.385	5.380	5.375	5.370	5.370	5.370	5.375	5.395	5.410	5.425	5.430	5.435
	5.435	5.435	5.430	5.430	5.425	5.425	5.415	5.410	5.405	5.400	5.395	5.390
6-24	5.385	5.385	5.380	5.380	5.375	5.375	5.375	5.385	5.400	5.420	5.430	5.440
	5.445	5.445	5.445	5.440	5.435	5.430	5.425	5.420	5.415	5.410	5.405	5.400
6-25	5.395	5.390	5.385	5.380	5.380	5.375	5.375	5.390	5.410	5.430	5.440	5.450
	5.460	5.465	5.460	5.455	5.450	5.445	5.440	5.435	5.430	5.425	5.420	5.415
6-26	5.405	5.400	5.395	5.390	5.385	5.385	5.385	5.395	5.405	5.415	5.425	5.430
	5.430	5.430	5.430	5.435	5.430	5.430	5.425	5.420	5.415	5.410	5.405	5.400
6-27	5.395	5.395	5.390	5.385	5.385	5.380	5.380	5.390	5.400	5.420	5.430	5.440
	5.445	5.445	5.460	5.500	5.495	5.480	5.445	5.435	5.425	5.415	5.410	5.405
6-28	5.405	5.400	5.395	5.390	5.390	5.385	5.390	5.395	5.400	5.405	5.410	5.415
	5.415	5.420	5.415	5.415	5.415	5.405	5.400	5.395	5.395	5.390	5.385	5.385
6-29	5.380	5.380	5.375	5.375	5.375	5.370	5.370	5.370	5.375	5.385	5.400	5.405
	5.415	5.415	5.420	5.415	5.410	5.405	5.400	5.395	5.390	5.385	5.380	5.375
6-30	5.375	5.375	5.370	5.370	5.365	5.365	5.365	5.365	5.370	5.370	5.380	5.390
	5.395	5.400	5.400	5.405	5.405	5.400	5.395	5.390	5.385	5.385	5.380	5.375
7- 1	5.370	5.370	5.370	5.365	5.365	5.365*	5.360*	5.360*	5.360*	5.360*	5.355*	5.355*
	5.355*	5.350*	5.350*	5.350*	5.345*	5.345*	5.345*	5.340*	5.340*	5.340*	5.335*	5.335*
7- 2	5.335*	5.330*	5.330*	5.330*	5.325*	5.325*	5.325*	5.320*	5.325*	5.325*	5.330*	5.330*
	5.335*	5.335*	5.335*	5.335*	5.335*	5.330*	5.330*	5.325*	5.325*	5.325*	5.325*	5.320*
7- 3	5.320*	5.320*	5.315*	5.315*	5.315*	5.315*	5.310*	5.310*	5.310*	5.310*	5.310*	5.310*
	5.310*	5.315*	5.315*	5.315*	5.310*	5.310*	5.310*	5.310*	5.305*	5.305*	5.305*	5.305*
7- 4	5.305*	5.305*	5.300*	5.300*	5.300*	5.300*	5.300*	5.300*	5.300*	5.300*	5.300*	5.300*
	5.300*	5.300*	5.300*	5.300*	5.300*	5.300*	5.295*	5.295*	5.295*	5.295*	5.295*	5.295*

TABLE 1.- HOURLY GAGE HEIGHT, IN METERS(1), AT SECTION 0000, EAST FORK RIVER WYOMING, 1979--CONTINUED

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
7- 5	5.295*	5.295*	5.295*	5.295*	5.295*	5.295*	5.295*	5.295*	5.295*	5.290*	5.290*	5.290*
	5.290*	5.290*	5.290*	5.290*	5.290*	5.290*	5.290*	5.290*	5.290*	5.290*	5.290*	5.290*
7- 6	5.290*	5.290*	5.290*	5.290*	5.290*	5.290*	5.285*	5.285*	5.285*	5.285*	5.285*	5.280*
	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*
7- 7	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*
	5.280*	5.280*	5.280*	5.280*	5.280*	5.280*	5.275*	5.275*	5.275*	5.275*	5.275*	5.275*
7- 8	5.275*	5.275*	5.275*	5.275*	5.275*	5.275*	5.275*	5.275*	5.275*	5.275*	5.275*	5.275*
	5.270*	5.270*	5.270*	5.270*	5.270*	5.270*	5.270*	5.265*	5.265*	5.265*	5.265*	5.265*
7- 9	5.265*	5.265*	5.265*	5.265*	5.265*	5.265*	5.265*	5.265*	5.265*	5.265*	5.265*	5.265*
	5.265*	5.265*	5.260*	5.260*	5.260*	5.260*	5.260*	5.260*	5.255*	5.255*	5.255*	5.255*
7-10	5.255*	5.255*	5.255*	5.255*	5.255*	5.255*	5.255*	5.255*	5.255*	5.255*	5.255*	5.255
	5.255	5.255	5.255	5.255	5.250	5.250	5.250	5.250	5.250	5.250	5.245	5.245
7-11	5.245	5.245	5.245	5.245	5.245	5.245	5.245	5.250	5.250	5.250	5.250	5.250
	5.250	5.250	5.250	5.250	5.245	5.245	5.245	5.245	5.245	5.240	5.240	5.240
7-12	5.240	5.240	5.240	5.235	5.235	5.235	5.240	5.240	5.240	5.240	5.245	5.245
	5.245	5.245	5.245	5.245	5.245	5.245	5.240	5.240	5.240	5.240	5.240	5.235
7-13	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.240	5.245	5.245	5.245	5.245
	5.240	5.240	5.240	5.240	5.240	5.235	5.235	5.235	5.235	5.235	5.230	5.230
7-14	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.235	5.235	5.235	5.235	5.235
	5.235	5.235	5.235	5.235	5.230	5.230	5.225	5.225	5.225	5.225	5.225	5.220
7-15	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.225	5.225	5.225
	5.225	5.225	5.225	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220
7-16	5.220	5.220	5.220	5.220	5.220	5.220	5.225	5.225	5.225	5.225	5.230	5.230
	5.230	5.230	5.230	5.230	5.230	5.225	5.225	5.225	5.225	5.225	5.220	5.220
7-17	5.220	5.220	5.225	5.225	5.225	5.225	5.225	5.225	5.230	5.230	5.235	5.235
	5.235	5.235	5.235	5.235	5.235	5.235	5.230	5.225	5.220	5.220	5.220	5.220
7-18	5.220	5.225	5.225	5.225	5.225	5.225	5.225	5.230	5.230	5.230	5.230	5.230
	5.230	5.225	5.225	5.225	5.225	5.220	5.220	5.220	5.220	5.220	5.220	5.220
7-19	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220
	5.215	5.215	5.215	5.210	5.210	5.210	5.210	5.210	5.210	5.210	5.210	5.210
7-20	5.210	5.210	5.210	5.210	5.210	5.210	5.210	5.210	5.210	5.215	5.215	5.220
	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.225	5.225	5.225
7-21	5.230	5.230	5.230	5.230	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235
	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235
7-22	5.235	5.235	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.235	5.235	5.235
	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235
7-23	5.240	5.240	5.240	5.240	5.240	5.245	5.245	5.245	5.245	5.250	5.250	5.250
	5.250	5.250	5.250	5.250	5.250	5.250	5.250	5.250	5.250	5.250	5.250	5.250
7-24	5.250	5.250	5.250	5.250	5.250	5.250	5.255	5.255	5.260	5.260	5.260	5.265
	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265
7-25	5.265	5.265	5.265	5.260	5.260	5.260	5.260	5.260	5.260	5.260	5.260	5.260
	5.260	5.260	5.260	5.255	5.255	5.255	5.255	5.255	5.255	5.255	5.250	5.250
7-26	5.250	5.250	5.250	5.250	5.250	5.250	5.250	5.250	5.250	5.250	5.250	5.250
	5.250	5.250	5.245	5.245	5.245	5.245	5.240	5.240	5.240	5.235	5.235	5.235
7-27	5.235	5.235	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.225
	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.220	5.220	5.220
7-28	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.225	5.225	5.230	5.235
	5.245	5.260	5.260	5.260	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265
7-29	5.265	5.265	5.260	5.260	5.255	5.255	5.255	5.255	5.260	5.260	5.260	5.260
	5.260	5.260	5.260	5.255	5.255	5.255	5.255	5.260	5.260	5.265	5.265	5.265
7-30	5.265	5.260	5.255	5.255	5.250	5.245	5.245	5.245	5.245	5.250	5.250	5.250
	5.250	5.250	5.245	5.245	5.245	5.245	5.245	5.245	5.245	5.245	5.245	5.245
7-31	5.240	5.240	5.240	5.240	5.240	5.240	5.240	5.240	5.240	5.240	5.240	5.240
	5.240	5.240	5.240	5.240	5.240	5.240	5.240	5.240	5.235	5.235	5.235	5.235
A- 1	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235
	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.230	5.230	5.230	5.230

TABLE 1.- HOURLY GAGE HEIGHT, IN METERS(1), AT SECTION 0000, EAST FORK RIVER WYOMING, 1979--CONTINUED

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
A- 2	5.230	5.230	5.230	5.230	5.230	5.230	5.225	5.225	5.230	5.230	5.235	5.235
	5.235	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.225
A- 3	5.225	5.225	5.225	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*
	5.230*	5.230*	5.230*	5.230*	5.230*	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*
A- 4	5.225*	5.225*	5.225*	5.220*	5.220*	5.220*	5.220*	5.220*	5.225*	5.225*	5.225*	5.225*
	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*	5.220*	5.220*	5.220*	5.220*	5.220*
A- 5	5.220*	5.220*	5.220*	5.220*	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220
	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220
A- 6	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220
	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220
A- 7	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220
	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220
A- 8	5.220	5.220	5.220	5.220	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225
	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225
A- 9	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225	5.225
	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230
A-10	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.235	5.235	5.235	5.235	5.235
	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235
A-11	5.235	5.235	5.235	5.240	5.240	5.240	5.240	5.240	5.240	5.240	5.240	5.240
	5.240	5.240	5.240	5.240	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.235
A-12	5.235	5.235	5.235	5.235	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230
	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.230	5.225	5.230	5.230
A-13	5.230	5.230	5.235	5.235	5.235	5.235	5.235	5.235	5.235	5.240	5.240	5.240
	5.240	5.240	5.240	5.240	5.240	5.245	5.245	5.245	5.245	5.245	5.245	5.245
A-14	5.250	5.250	5.250	5.255	5.255	5.260	5.260	5.265	5.270	5.270	5.275	5.280
	5.280	5.285	5.285	5.290	5.290	5.295	5.295	5.300	5.300	5.305	5.305	5.305
A-15	5.305	5.305	5.305	5.305	5.315	5.320	5.320	5.325	5.325	5.325	5.325	5.325
	5.325	5.325	5.330	5.330	5.330	5.330	5.330	5.330	5.325	5.325	5.325	5.325
A-16	5.330	5.335	5.345	5.345	5.345	5.345	5.345	5.345	5.345	5.340	5.340	5.340
	5.340	5.340	5.335	5.335	5.335	5.330	5.330	5.325	5.325	5.325	5.325	5.325
A-17	5.325	5.325	5.325	5.325	5.325	5.325	5.325	5.325	5.325	5.325	5.320	5.320
	5.320	5.320	5.320	5.320	5.315	5.315	5.315	5.315	5.315	5.315	5.315	5.315
A-18	5.310	5.310	5.310	5.310	5.310	5.310	5.310	5.310	5.310	5.305	5.305	5.305
	5.305	5.305	5.305	5.305	5.300	5.300	5.300	5.300	5.300	5.300	5.300	5.305
A-19	5.305	5.310	5.310	5.310	5.310	5.315	5.315	5.315	5.320	5.325	5.345	5.360
	5.370	5.375	5.380	5.395	5.405	5.390	5.385	5.385	5.390	5.390	5.390	5.390
A-20	5.390	5.390	5.390	5.395	5.400	5.400	5.405	5.410	5.415	5.425	5.435	5.445
	5.460	5.475	5.485	5.505	5.520	5.525	5.525	5.530	5.535	5.540	5.545	5.550
A-21	5.550	5.550	5.550	5.555	5.555	5.565	5.570	5.580	5.585	5.585	5.585	5.585
	5.580	5.580	5.580	5.570	5.565	5.560	5.555	5.550	5.550	5.545	5.555	5.540
A-22	5.530	5.525	5.520	5.515	5.510	5.510	5.505	5.500	5.495	5.490	5.490	5.485
	5.480	5.475	5.470	5.465	5.460	5.455	5.455	5.450	5.445	5.445	5.440	5.440
A-23	5.435	5.440	5.450	5.450	5.450	5.445	5.445	5.445	5.440	5.440	5.435	5.435
	5.435	5.430	5.430	5.425	5.425	5.425	5.420	5.420	5.415	5.415	5.410	5.410
A-24	5.415	5.410	5.410	5.410	5.405	5.405	5.405	5.400	5.400	5.400	5.400	5.400
	5.395	5.395	5.390	5.390	5.390	5.385	5.385	5.385	5.380	5.380	5.380	5.375
A-25	5.375	5.375	5.375	5.375	5.370	5.370	5.370	5.370	5.370	5.365	5.365	5.365
	5.365	5.360	5.360	5.360	5.355	5.355	5.355	5.350	5.350	5.350	5.350	5.345
A-26	5.345	5.345	5.345	5.345	5.345	5.345	5.345	5.340	5.340	5.340	5.340	5.340
	5.340	5.340	5.335	5.335	5.335	5.335	5.335	5.335	5.335	5.330	5.330	5.330
A-27	5.330	5.330	5.330	5.330	5.330	5.330	5.330	5.330	5.330	5.330	5.330	5.330
	5.325	5.325	5.325	5.320	5.320	5.320	5.320	5.315	5.315	5.315	5.315	5.315
A-28	5.315	5.315	5.315	5.315	5.315	5.315	5.315	5.315	5.315	5.315	5.315	5.315
	5.310	5.310	5.310	5.310	5.310	5.305	5.305	5.305	5.305	5.305	5.300	5.300
A-29	5.300	5.300	5.300	5.300	5.300	5.300	5.300	5.300	5.300	5.300	5.300	5.300
	5.300	5.300	5.295	5.295	5.295	5.290	5.290	5.290	5.290	5.285	5.285	5.285

TABLE 1.- HOURLY GAGE HEIGHT, IN METERS(1), AT SECTION 0000, EAST FORK RIVER WYOMING, 1979--CONTINUED

DATE	TIME IN HOURS											
	1 13	2 14	3 15	4 16	5 17	6 18	7 19	8 20	9 21	10 22	11 23	12 24
A-30	5.285	5.285	5.285	5.285	5.285	5.285	5.285	5.285	5.285	5.285	5.285	5.285
	5.285	5.285	5.280	5.280	5.280	5.280	5.280	5.275	5.275	5.275	5.275	5.275
A-31	5.275	5.270	5.270	5.270	5.270	5.270	5.270	5.270	5.270	5.270	5.275	5.275
	5.275	5.270	5.270	5.270	5.270	5.270	5.270	5.270	5.270	5.270	5.270	5.265
9- 1	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265	5.265
	5.265	5.265	5.265	5.265	5.265	5.265	5.260	5.260	5.260	5.260	5.260	5.260
9- 2	5.255	5.255	5.255	5.255	5.255	5.255	5.255	5.255	5.260	5.260	5.260	5.260
	5.260	5.260	5.260	5.260	5.260	5.260	5.255	5.255	5.255	5.255	5.255	5.255
9- 3	5.255	5.255	5.255	5.255	5.250	5.250	5.250	5.255	5.255	5.255	5.255	5.255
	5.255	5.255	5.255	5.250	5.250	5.250	5.250	5.250	5.250	5.245	5.245	5.245*
9- 4	5.245*	5.245*	5.245*	5.245*	5.245*	5.245*	5.245*	5.245*	5.245*	5.245*	5.245*	5.245*
	5.240*	5.240*	5.240*	5.240*	5.240*	5.240*	5.240*	5.240*	5.240*	5.240*	5.240*	5.240*
9- 5	5.240*	5.240*	5.240*	5.240*	5.235*	5.235*	5.235*	5.235*	5.235*	5.235*	5.235*	5.235*
	5.235*	5.235*	5.235*	5.235*	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*
9- 6	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*	5.230*	5.225*
	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*
9- 7	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*	5.225*	5.220*	5.220*	5.220*	5.220	5.220
	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220	5.220
9- 8	5.220	5.215	5.215	5.215	5.215	5.215	5.215	5.215	5.215	5.215	5.215	5.210
	5.210	5.210	5.210	5.210	5.210	5.210	5.210	5.210	5.210	5.210	5.210	5.210

(1) ADD 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.
* GAGE HEIGHT ESTIMATED.

TABLE 2.- HOURLY GAGE HEIGHT, IN METERS(1), AT SECTION 2505, EAST FORK RIVER WYOMING, 1979

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
5-18	7.495	7.525	7.555	7.585	7.600	7.610	7.615	7.620	7.615	7.610	7.600	7.585
	7.555	7.550	7.550	7.545	7.550	7.555	7.560	7.565	7.575	7.585	7.610	7.635
5-19	7.660	7.680	7.700	7.710	7.715	7.720	7.720	7.715	7.710	7.700	7.690	7.680
	7.660	7.640	7.635	7.625	7.630	7.625	7.610	7.615	7.625	7.650	7.675	7.715
5-20	7.755	7.790	7.815	7.840	7.860	7.875	7.885	7.890	7.890	7.885	7.880	7.870
	7.860	7.845	7.840	7.850	7.855	7.845	7.835	7.835	7.840	7.860	7.885	7.910
5-21	7.930	7.950	7.970	7.985	8.000	8.010	8.015	8.015	8.010	8.000	7.985	7.975
	7.960	7.950	7.935	7.925	7.910	7.900	7.895	7.910	7.910	7.940	7.970	8.000
5-22	8.025	8.045	8.065	8.085	8.105	8.120	8.130	8.145	8.155	8.155	8.155	8.155
	8.150	8.135	8.120	8.100	8.080	8.060	8.050	8.045	8.050	8.055	8.065	8.080
5-23	8.100	8.120	8.140	8.160	8.180	8.195	8.210	8.220	8.220	8.220	8.220	8.210
	8.205	8.195	8.180	8.165	8.150	8.130	8.120	8.105	8.105	8.105	8.115	8.120
5-24	8.140	8.155	8.175	8.195	8.210	8.230	8.240	8.250	8.255	8.260	8.260	8.260
	8.255	8.250	8.250	8.245	8.235	8.230	8.220	8.210	8.200	8.195	8.190	8.190
5-25	8.190	8.190	8.195	8.205	8.210	8.220	8.225	8.235	8.245	8.245	8.250	8.255
	8.250	8.250	8.245	8.240	8.235	8.230	8.220	8.215	8.205	8.205	8.200	8.195
5-26	8.200	8.205	8.205	8.215	8.225	8.235	8.245	8.250	8.260	8.260	8.265	8.265
	8.270	8.270	8.265	8.265	8.260	8.260	8.255	8.250	8.245	8.240	8.235	8.240
5-27	8.250	8.260	8.265	8.280	8.300	8.315	8.330	8.345	8.360	8.365	8.375	8.375
	8.375	8.375	8.370	8.365	8.355	8.350	8.340	8.335	8.325	8.320	8.315	8.305
5-28	8.305	8.300	8.300	8.300	8.305	8.315	8.315	8.320	8.320	8.325	8.325	8.325
	8.325	8.320	8.325	8.320	8.315	8.305	8.300	8.290	8.280	8.270	8.265	8.260
5-29	8.255	8.250	8.250	8.250	8.250	8.250	8.255	8.260	8.265	8.275	8.285	8.290
	8.300	8.310	8.315	8.320	8.325	8.325	8.320	8.315	8.315	8.305	8.300	8.290
5-30	8.285	8.275	8.265	8.255	8.245	8.235	8.225	8.210	8.190	8.170	8.140	8.115
	8.085	8.055	8.025	8.005	7.985	7.970	7.970	7.970	7.965	7.955	7.940	7.925
5-31	7.905	7.885	7.870	7.850	7.835	7.815	7.800	7.780	7.765	7.750	7.740	7.725
	7.710	7.700	7.685	7.665	7.655	7.650	7.650	7.645	7.640	7.630	7.625	7.615*
6- 1	7.610*	7.600*	7.595*	7.580*	7.570*	7.560*	7.550*	7.535*	7.525*	7.510*	7.495*	7.475*
	7.455*	7.440*	7.425*	7.415*	7.415*	7.415*	7.425*	7.435*	7.440*	7.440*	7.435*	7.430*
6- 2	7.425*	7.415*	7.415*	7.415*	7.415*	7.415*	7.415*	7.410*	7.405*	7.400*	7.400*	7.390*
	7.380*	7.375*	7.365*	7.355*	7.345*	7.345*	7.345*	7.350*	7.355*	7.360*	7.370*	7.375*
6- 3	7.390*	7.400*	7.420*	7.440*	7.460*	7.480*	7.495	7.510	7.520	7.525	7.525	7.520
	7.515	7.505	7.500	7.490	7.485	7.485	7.485	7.500	7.505	7.510	7.515	7.515
6- 4	7.525	7.555	7.590*	7.635*	7.670*	7.695*	7.720*	7.735*	7.750*	7.760	7.765	7.765
	7.765	7.760	7.750	7.740	7.730	7.720	7.715	7.715	7.715	7.720	7.730	7.745
6- 5	7.770	7.790	7.820	7.845	7.870	7.895	7.920	7.940	7.965	7.985	7.995	8.000
	7.995	7.990	7.985	7.975	7.960	7.945	7.925	7.915	7.905	7.900	7.900	7.915
6- 6	7.930	7.950	7.975	7.995	8.020	8.040	8.055	8.070	8.085	8.095	8.105	8.110
	8.120	8.115	8.110	8.105	8.095	8.085	8.070	8.060	8.050	8.035	8.025	8.015
6- 7	8.010	8.010	8.010	8.010	8.015	8.015	8.015	8.010	8.000	7.990	7.980	7.965
	7.915	7.895	7.875	7.855	7.850	7.850	7.855	7.860	7.860	7.845	7.825	7.805
6- 8	7.780	7.760	7.745	7.730	7.715	7.700	7.685	7.675	7.660	7.650	7.635	7.630
	7.615	7.595	7.585	7.570	7.555	7.535	7.535	7.530	7.530	7.525	7.525	7.525
6- 9	7.515*	7.505*	7.495*	7.485*	7.470*	7.455*	7.445*	7.435*	7.425*	7.410*	7.390*	7.380*
	7.370*	7.365*	7.355*	7.350*	7.345*	7.340*	7.340*	7.345*	7.355*	7.360*	7.360*	7.360*
6-10	7.360*	7.355*	7.355*	7.355*	7.355*	7.355*	7.355*	7.360*	7.360*	7.360*	7.360*	7.360*
	7.360*	7.355*	7.350*	7.345*	7.345*	7.340*	7.335*	7.335*	7.335*	7.335*	7.335*	7.340*
6-11	7.350*	7.360*	7.380*	7.400*	7.425*	7.455*	7.485	7.530	7.550	7.560	7.570	7.570
	7.575	7.575	7.575	7.570	7.560	7.550	7.545	7.540	7.535	7.530	7.530	7.535
6-12	7.550	7.570	7.590	7.620	7.650	7.675	7.695	7.710	7.725	7.735	7.735	7.735
	7.735	7.730	7.720	7.710	7.700	7.690	7.675	7.665	7.655	7.650	7.650	7.660
6-13	7.680	7.720	7.760	7.795	7.835	7.865	7.895	7.925	7.955	7.970	7.985	7.995
	8.000	8.000	7.995	7.980	7.970	7.945	7.920	7.895	7.870	7.845	7.830	7.830
6-14	7.835	7.860	7.890	7.925	7.955	7.985	8.015	8.035	8.060	8.070	8.085	8.095
	8.105	8.110	8.105	8.095	8.070	8.050	8.025	8.000	7.970	7.950	7.925	7.910

TABLE 2.- HOURLY GAGE HEIGHT, IN METERS(1), AT SECTION 2505, EAST FORK RIVER WYOMING, 1979--CONTINUED

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
6-15	7.905	7.910	7.925	7.945	7.965	7.985	8.005	8.025	8.035	8.045	8.045	8.040
	8.030	8.015	7.995	7.975	7.945	7.915	7.885	7.860	7.830	7.805	7.780	7.760
6-16	7.750	7.745	7.740	7.735	7.740	7.745	7.745	7.750	7.750	7.750	7.745	7.740
	7.730	7.720	7.710	7.695	7.685	7.675	7.660	7.650	7.635	7.625	7.610	7.595
6-17	7.590	7.585	7.590	7.595	7.605	7.620	7.630	7.640	7.645	7.650	7.650	7.640
	7.630	7.615	7.605	7.595	7.580	7.570	7.555	7.540	7.530	7.515	7.515	7.510
6-18	7.505	7.500	7.500	7.500	7.510	7.515	7.535	7.550	7.565	7.570	7.580	7.580
	7.575	7.575	7.570	7.565	7.555	7.550	7.540	7.525	7.515	7.505	7.495	7.485

(1) ADD 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.
* GAGE HEIGHT ESTIMATED.

TABLE 3.- HOURLY GAGE HEIGHT, IN METERS(1), AT SECTION 3295, EAST FORK RIVER WYOMING, 1979

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
5-17	7.845*	7.845*	7.845*	7.845*	7.845*	7.845*	7.845*	7.845*	7.845*	7.845*	7.845*	7.845*
	7.845	7.845	7.840	7.830	7.820	7.815	7.815	7.815	7.820	7.835	7.865	7.895
5-18	7.920	7.950	7.975	8.000	8.000	8.005*	8.005*	8.005*	8.005*	7.995*	7.990*	7.980*
	7.970*	7.965*	7.955*	7.950*	7.950*	7.950	7.960	7.970	7.970	7.985	8.010	8.035
5-19	8.060	8.085	8.095	8.100	8.110	8.115	8.110	8.100	8.095	8.085	8.070	8.050
	8.035	8.025	8.015	8.025	8.025	8.005	8.000	8.005	8.025	8.045	8.080	8.115
5-20	8.150	8.185	8.220	8.245	8.265	8.280	8.290	8.290	8.290	8.285	8.275	8.270
	8.255	8.240	8.240	8.255	8.260	8.240	8.235	8.235	8.250	8.265	8.290	8.310
5-21	8.340	8.365	8.380	8.395	8.405	8.415	8.420	8.415	8.415	8.405	8.395	8.385
	8.370	8.355	8.335	8.325	8.310	8.295	8.295	8.310	8.335	8.365	8.390	8.420
5-22	8.445	8.470	8.490*	8.505*	8.520*	8.530*	8.540*	8.550*	8.555*	8.555*	8.550*	8.545*
	8.540*	8.535*	8.525*	8.515*	8.505*	8.500*	8.490*	8.485*	8.480*	8.485*	8.490*	8.500*
5-23	8.520*	8.540*	8.560*	8.580*	8.595*	8.615*	8.620*	8.630*	8.630*	8.635*	8.635	8.630
	8.615	8.600	8.585	8.570	8.555	8.540	8.525	8.515	8.505	8.515	8.530	8.545
5-24	8.560	8.580	8.605	8.630	8.645	8.665	8.675	8.680*	8.690*	8.695*	8.700	8.700
	8.700	8.695	8.680	8.665	8.655	8.645	8.640	8.630	8.625	8.615	8.610	8.610
5-25	8.615	8.620	8.630	8.640	8.655	8.665	8.680	8.685	8.690	8.690	8.695	8.695
	8.690	8.685	8.680	8.675	8.670	8.665	8.650	8.640	8.635	8.630	8.630	8.640
5-26	8.645	8.650	8.660	8.670	8.675	8.685	8.690	8.695	8.700	8.705	8.710	8.710
	8.705	8.705	8.700	8.700	8.695	8.690	8.685	8.685	8.680	8.680	8.680	8.685
5-27	8.695	8.710	8.725	8.745	8.760	8.780	8.800	8.815	8.825	8.840	8.840	8.840
	8.835	8.825	8.820	8.810	8.805	8.795	8.785	8.775	8.765	8.765	8.760	8.755
5-28	8.755	8.755	8.755	8.765	8.770	8.775	8.780	8.785	8.790	8.790	8.790	8.790
	8.785	8.775	8.770	8.765	8.760	8.750	8.745	8.735	8.725	8.720	8.715	8.710
5-29	8.705	8.700	8.700	8.700	8.705	8.710	8.720	8.730	8.735	8.745	8.755	8.765
	8.770	8.775	8.785	8.790	8.790	8.790	8.785	8.780	8.775	8.765	8.760	8.750
5-30	8.740	8.735	8.725	8.710	8.700	8.680*	8.665*	8.640*	8.610*	8.590*	8.570	8.540
	8.505	8.480	8.450	8.440	8.430	8.420	8.420	8.420	8.415	8.400	8.385	8.375
5-31	8.355	8.340	8.325	8.310	8.290	8.275	8.260	8.245	8.235	8.220	8.210	8.200
	8.185	8.175	8.165	8.150	8.140	8.135	8.130	8.125	8.115	8.100	8.095	8.090
6- 1	8.085	8.080	8.070	8.065	8.055	8.045	8.040	8.030	8.025	8.005	7.990	7.970
	7.945	7.930	7.920	7.910	7.905	7.915	7.935	7.940	7.935	7.935	7.930	7.925
6- 2	7.920	7.915	7.905	7.905	7.905	7.905	7.905	7.905	7.905	7.900	7.890	7.875
	7.865	7.850	7.840	7.830	7.820	7.815	7.835	7.845	7.845	7.845	7.845	7.845
6- 3	7.855*	7.880*	7.900*	7.915*	7.930*	7.945*	7.960*	7.970*	7.980*	7.980	7.970	7.965
	7.960	7.950	7.945	7.935	7.940	7.950	7.960	7.960	7.960	7.960	7.970	7.990
6- 4	8.025	8.055	8.090	8.120	8.145	8.170	8.185	8.200	8.205	8.210	8.210	8.205
	8.200	8.190	8.185	8.180	8.170	8.170	8.170	8.170	8.170	8.180	8.200	8.220
6- 5	8.245*	8.270*	8.295*	8.320*	8.345*	8.365*	8.390*	8.410*	8.430*	8.450	8.455	8.455
	8.450	8.445	8.435	8.420	8.405	8.390	8.375	8.365	8.360	8.360	8.365	8.370
6- 6	8.390	8.410	8.435	8.455	8.475	8.495	8.515	8.530	8.540	8.555	8.560	8.570
	8.575	8.575	8.565	8.560	8.550	8.540	8.525	8.515	8.505	8.495	8.485	8.475
6- 7	8.470*	8.460*	8.460*	8.460*	8.475*	8.490*	8.500*	8.490*	8.480*	8.460*	8.440*	8.420*
	8.400*	8.375*	8.350*	8.325*	8.315*	8.305*	8.315*	8.320*	8.320*	8.300*	8.285*	8.265*
6- 8	8.250*	8.235*	8.220*	8.200*	8.185*	8.170*	8.160*	8.150*	8.135*	8.125	8.110	8.100
	8.085	8.070	8.055	8.040	8.025	8.015	8.005	8.000	8.000	8.000	8.000	7.995
6- 9	7.985	7.975	7.960	7.950	7.945	7.935	7.930	7.925	7.915	7.900	7.885	7.870
	7.860	7.850	7.845	7.835	7.820	7.825	7.845	7.850	7.850	7.850	7.845	7.840
6-10	7.835	7.835	7.830	7.830*	7.825*	7.825	7.820	7.820	7.815	7.810	7.805	7.800
	7.795	7.800	7.805	7.810	7.810	7.810	7.820*	7.825*	7.830*	7.835*	7.835*	7.835*
6-11	7.830*	7.825*	7.825*	7.860*	7.905*	7.940*	7.980*	8.005*	8.015*	8.030	8.030	8.030
	8.030	8.025	8.020	8.010	8.005	8.000	7.995	7.990	7.985	7.980	7.985	7.995
6-12	8.020	8.040*	8.065*	8.085*	8.115*	8.140*	8.160*	8.175*	8.185*	8.195*	8.195*	8.190
	8.185	8.180	8.165	8.155	8.145	8.130	8.120	8.105	8.100	8.100	8.110	8.125
6-13	8.150*	8.185*	8.220*	8.255*	8.290*	8.325*	8.360*	8.390*	8.420*	8.445*	8.455*	8.465*
	8.475*	8.470*	8.455*	8.445*	8.415*	8.390*	8.370*	8.350*	8.325*	8.300*	8.295*	8.295*

TABLE 3.- HOURLY GAGE HEIGHT, IN METERS(1), AT SECTION 3295, EAST FORK RIVER WYOMING, 1979--CONTINUED

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
6-14	8.310*	8.340*	8.375*	8.410*	8.445*	8.475*	8.500*	8.520*	8.540*	8.555*	8.560*	8.570*
	8.575*	8.570*	8.555*	8.545*	8.520*	8.500*	8.470*	8.440*	8.415*	8.390*	8.375*	8.365*
6-15	8.360*	8.360*	8.365*	8.390*	8.415*	8.435*	8.460*	8.485*	8.505*	8.515*	8.505*	8.500*
	8.485*	8.475*	8.445*	8.415*	8.385*	8.360*	8.325*	8.290*	8.265*	8.240*	8.230*	8.220*
6-16	8.210*	8.210*	8.210*	8.210*	8.210*	8.215*	8.220*	8.220*	8.220*	8.220*	8.210*	8.200*
	8.185*	8.175*	8.165*	8.150*	8.130*	8.115*	8.105*	8.095*	8.085*	8.075*	8.060*	8.060*
6-17	8.055*	8.060*	8.065*	8.075*	8.080*	8.090*	8.100*	8.110*	8.110*	8.110*	8.105*	8.085*
	8.075*	8.065*	8.055*	8.035*	8.015*	8.000*	7.985*	7.970*	7.960*	7.950*	7.940*	7.935*
6-18	7.935*	7.940*	7.955*	7.970*	7.980*	7.995*	8.010*	8.025*	8.025*	8.025*	8.020*	8.015*
	8.005*	8.000*	7.995*	7.985*	7.975*	7.960*	7.950*	7.945*	7.935*	7.925*	7.920*	7.915*
6-19	7.910*	7.905*	7.900*	7.890*	7.885	7.875	7.870	7.865	7.855	7.850	7.845	7.835
	7.830	7.825	7.820	7.815	7.810	7.805	7.800	7.795	7.790	7.790	7.785	7.780
6-20	7.780	7.775	7.775	7.770	7.765	7.765	7.760	7.755	7.755	7.750	7.745	7.740
	7.740	7.735	7.730	7.730	7.725	7.720	7.715	7.715	7.710	7.705	7.700	7.695
6-21	7.695	7.695	7.695	7.690	7.690	7.690	7.690	7.695	7.695	7.705	7.695	7.690
	7.690	7.685	7.685	7.685	7.685	7.680	7.680	7.675	7.670	7.670	7.665	7.665
6-22	7.660	7.660	7.660	7.665	7.665	7.675	7.695	7.720	7.735	7.750	7.755	7.750
	7.750	7.745	7.740	7.735	7.730	7.725	7.720	7.715	7.710	7.705	7.700	7.695
6-23	7.695*	7.690*	7.685*	7.680*	7.680*	7.680*	7.700*	7.720*	7.740*	7.750*	7.755*	7.755*
	7.755*	7.750*	7.745*	7.740*	7.735*	7.730*	7.725*	7.720*	7.715*	7.710*	7.705*	7.705*
6-24	7.700*	7.695*	7.690*	7.685*	7.685*	7.690*	7.710*	7.730*	7.750*	7.755*	7.765*	7.765*
	7.760*	7.755*	7.755*	7.750*	7.745*	7.740*	7.735*	7.725*	7.720*	7.715*	7.710*	7.705*
6-25	7.700*	7.695*	7.695*	7.695*	7.705*	7.720*	7.735*	7.750*	7.765*	7.775*	7.780*	7.780*
	7.775*	7.770*	7.765*	7.760*	7.755*	7.750*	7.745*	7.740*	7.735*	7.730*	7.725*	7.720*
6-26	7.715*	7.710*	7.705*	7.695*	7.695*	7.705*	7.720*	7.740*	7.745*	7.750*	7.750*	7.750*
	7.750*	7.750*	7.750*	7.745*	7.740*	7.735*	7.735	7.730	7.725	7.720	7.720	7.715*
6-27	7.710*	7.705*	7.705*	7.700*	7.705*	7.720*	7.735*	7.740*	7.750	7.755	7.755	7.755
	7.795	7.810	7.810	7.780	7.750	7.745	7.740	7.735	7.730	7.725	7.720	7.715
6-28	7.710	7.705	7.705	7.700	7.705	7.715	7.720	7.720	7.725	7.725	7.730	7.730
	7.725	7.725	7.720	7.720	7.715	7.710	7.710	7.705	7.700	7.695	7.695	7.690
6-29	7.685	7.685	7.680	7.680	7.680	7.685	7.690	7.700	7.710	7.720	7.725	7.725
	7.730	7.725	7.725	7.720	7.715	7.710	7.705	7.695	7.690	7.685	7.685	7.680
6-30	7.680	7.675	7.670	7.670	7.665	7.665	7.670	7.685	7.695	7.705	7.715	7.720
	7.725	7.720	7.715	7.710	7.705	7.695	7.695	7.690	7.690	7.690	7.685	7.685
7- 1	7.685*	7.680*	7.680*	7.680*	7.675*	7.675*	7.675*	7.670*	7.670*	7.670*	7.665*	7.665*
	7.665*	7.665*	7.665*	7.670*	7.670*	7.670*	7.665*	7.665	7.665	7.665	7.660	7.660
7- 2	7.660	7.655	7.655	7.655	7.650	7.650	7.650	7.645	7.645	7.640	7.640	7.635
	7.635	7.640	7.640	7.640	7.640	7.640	7.640	7.640	7.640	7.640	7.635	7.635

(1) ADD 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.
* GAGE HEIGHT ESTIMATED.

TABLE 4.- SUMMARY OF DISCHARGE MEASUREMENTS AT SECTION 0000, EAST FORK RIVER, WYOMING, 1979

TOTAL DISCHARGE - NO OVERBANK FLOW OCCURRED AT SECTION 0000

DATE	TIME	WATER LEVEL(1) (M)	SURFACE WIDTH(2) (M)	MEAN DEPTH(3) (M)	MEAN VELOCITY(4) (M/S)	FLOW AREA(5) (M^2)	TOTAL DISCHARGE(6) (M^3/S)
5-23	1400	6.350	18.3	1.14	0.91	20.9	19.0
5-24	1430	6.415	18.3	1.22	1.11	22.3	24.8
5-28	1130	6.530	18.9	1.31	1.17	24.7	29.0
5-31	1400	5.810	16.5	.67	.74	11.0	8.08
6- 2	1230	5.555	16.0	.43	.60	6.90	4.14
6- 3	1200	5.645	16.1	.53	.68	8.53	5.77
6- 4	1130	5.835	16.5	.71	.82	11.6	9.49
6- 5	1500	6.055	16.8	.88	.93	14.8	13.8
6- 6	1230	6.170	17.4	1.00	1.00	17.4	17.4
6- 8	1330	5.710	17.1	.52	.75	8.91	6.64
6-10	1030	5.515	15.9	.38	.63	6.00	3.79

(1) ADD 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.
(2) TOTAL SURFACE WIDTH OF CHANNEL.
(3) MEAN DEPTH OF WATER OVER TOTAL SURFACE WIDTH.
(4) MEAN VELOCITY OF TOTAL DISCHARGE.
(5) FLOW AREA OF TOTAL WIDTH.
(6) TOTAL DISCHARGE OVER ENTIRE WIDTH OF CHANNEL.

EFFECTIVE DISCHARGE - FLOW OVER 14.6-METER WIDTH OF CONVEYOR BELT

DATE	TIME	WATER LEVEL(1) (M)	EFFECTIVE WIDTH(2) (M)	MEAN DEPTH(3) (M)	MEAN VELOCITY(4) (M/S)	FLOW AREA(5) (M^2)	EFFECTIVE DISCHARGE(6) (M^3/S)
5-23	1400	6.350	14.6	1.24	0.96	18.1	17.4
5-24	1430	6.415	14.6	1.33	1.13	19.4	22.0
5-28	1130	6.530	14.6	1.46	1.21	21.3	25.7
5-31	1400	5.810	14.6	.71	.75	10.3	7.74
6- 2	1230	5.555	14.6	.46	.60	6.70	4.04
6- 3	1200	5.645	14.6	.56	.68	8.24	5.61
6- 4	1130	5.835	14.6	.75	.84	11.0	9.25
6- 5	1500	6.055	14.6	.98	.94	14.3	13.4
6- 6	1230	6.170	14.6	1.08	1.02	15.8	16.1
6- 8	1330	5.710	14.6	.57	.76	8.30	6.34
6-10	1030	5.515	14.6	.40	.64	5.80	3.70

(1) ADD 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.
(2) EFFECTIVE WIDTH OF STREAM CHANNEL IS THE 14.6-METER WIDTH OF THE BEDLOAD TRAP.
(3) MEAN DEPTH OF WATER OVER EFFECTIVE WIDTH.
(4) MEAN VELOCITY OF EFFECTIVE DISCHARGE.
(5) FLOW AREA OF EFFECTIVE WIDTH.
(6) EFFECTIVE DISCHARGE IS THE DISCHARGE OVER 14.6-METER WIDTH OF THE BEDLOAD TRAP; INCLUDES ALL FLOW OVER THE ACTIVE WIDTH OF THE STREAMBED.

TABLE 5.- SUMMARY OF DISCHARGE MEASUREMENTS AT SECTION 3256, EAST FORK RIVER, WYOMING, 1979

MAIN CHANNEL DISCHARGE - EXCLUDES SHALLOW FLOWS OVER ADJACENT FLOODPLAIN

DATE	TIME	WATER LEVEL(1) (M)	EFFECTIVE WIDTH(2) (M)	MEAN DEPTH(3) (M)	MEAN VELOCITY(4) (M/S)	FLOW AREA(5) (M^2)	EFFECTIVE DISCHARGE(6) (M^3/S)
5-23	1245	8.620	24.2	0.94	0.86	22.8	19.5
5-30	1130	8.555	24.1	.78	.95	18.9	18.0
5-31	1230	8.195	21.0	.48	.86	10.1	8.65
6- 1	1130	7.980	19.5	.42	.61	8.18	5.00
6- 2	1030	7.895	18.8	.36	.56	6.86	3.81
6- 3	1000	7.980	19.2	.48	.60	9.15	5.50
6- 4	1400	8.190	21.8	.62	.66	13.7	8.96
6- 4	1500	8.185	21.9	.63	.65	13.8	8.89
6- 5	1100	8.455	23.9	.84	.73	20.0	14.7
6- 6	1000	8.555	24.5	.93	.78	22.9	17.9
6- 8	1000	8.125	20.7	.47	.78	9.76	7.58
6- 9	1000	7.900	19.2	.34	.62	6.48	4.01
6-10	1100	7.805	19.1	.36	.52	6.96	3.59
6-11	1030	8.030	20.5	.51	.61	10.5	6.37
6-17	1230	8.080	20.8	.52	.71	10.8	7.72

(1) VALUES OF WATER LEVEL ARE FOR SECTION 3295. ADD 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.
(2) EFFECTIVE WIDTH IS THE WIDTH OF THE MAIN STREAM CHANNEL; DOES NOT INCLUDE WIDTH OF OVERBANK FLOW.
(3) MEAN DEPTH OF WATER OVER EFFECTIVE WIDTH.
(4) MEAN VELOCITY OF EFFECTIVE DISCHARGE.
(5) FLOW AREA OF EFFECTIVE WIDTH.
(6) EFFECTIVE DISCHARGE AT SECTION; DOES NOT INCLUDE OVERBANK FLOW.

TABLE 6.- HOURLY DISCHARGE(1), IN CUBIC METERS PER SECOND, AT SECTION 0000, EAST FORK RIVER, WYOMING, 1979

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
5-10	2.11	2.11	2.07	2.02	2.02	2.02	1.98	1.94	1.89	1.85	1.81	1.77
	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.77	1.81
5-11	1.85	1.89	1.89	1.85	1.85	1.85	1.85	1.81	1.81	1.81	1.77	1.77
	1.73	1.69	1.69	1.65	1.65	1.61	1.61	1.61	1.61	1.65	1.73	1.73
5-12	1.77	1.85	1.81	1.81	1.81	1.81	1.81	1.81	1.77	1.77	1.77	1.77
	1.77	1.77	1.77	1.73	1.73	1.73	1.73	1.73	1.73	1.69	1.69	1.69
5-13	1.69	1.73	1.73	1.73	1.73	1.73	1.73	1.69	1.69	1.69	1.65	1.65
	1.65	1.61	1.57	1.54	1.50	1.46	1.43	1.39	1.35	1.35	1.35	1.35
5-14	1.39	1.43	1.43	1.46	1.46	1.50	1.50	1.54	1.57	1.61	1.61	1.61
	1.61	1.61	1.61	1.61	1.57	1.54	1.50	1.50	1.50	1.46	1.50	1.54
5-15	1.54	1.61	1.69	1.73	1.81	1.89	1.94	2.02	2.07	2.11	2.16	2.20
	2.34	2.25	2.20	2.20	2.16	2.11	2.11	2.11	2.11	2.20	2.29	2.34
5-16	2.44	2.90	2.44	2.90	3.06	3.17	3.28	3.40	3.46	3.52	3.46	3.40
	3.40	3.40	3.34	3.28	3.23	3.12	3.06	3.12	3.12	3.17	3.28	3.28
5-17	3.28	3.34	3.52	3.64	3.82	3.95	4.08	4.21	4.21	4.21	4.21	4.14
	4.14	4.08	4.08	4.01	4.01	3.82	3.70	3.58	3.64	3.64	3.76	3.89
5-18	4.34	4.75	5.19	5.64	6.12	6.37	6.62	6.79	6.88	6.79	6.70	6.62
	6.37	6.04	5.88	5.88	5.80	5.88	5.96	6.04	6.12	6.12	6.37	6.62
5-19	6.96	7.32	7.77	8.15	8.34	8.54	8.64	8.64	8.64	8.64	8.34	8.15
	7.96	7.68	7.50	7.32	7.23	7.32	7.23	7.05	7.05	7.23	7.50	8.06
5-20	8.64	9.14	9.86	10.5	11.0	11.5	11.9	12.0	12.1	12.2	12.2	12.0
	11.9	11.6	11.5	11.3	11.4	11.5	11.5	11.5	11.3	11.3	11.5	12.0
5-21	12.4	13.0	13.3	13.7	14.2	14.6	15.0	15.2	15.2	15.3	15.2	15.0
	14.8	14.5	14.1	13.7	13.5	13.2	13.0	12.8	12.8	13.1	13.6	14.2
5-22	14.8	15.4	16.0	16.7	17.4	17.9	18.4	19.1	19.5	20.0	20.3	20.3
	20.3	19.8	19.5	18.9	18.3	17.7	17.1	16.7	16.4	16.4	16.5	16.7
5-23	17.3	17.7	18.3	18.9	19.5	20.3	21.1	21.8	22.3	22.8	23.3	23.3
	23.1	22.8	22.1	21.6	20.9	20.3	19.7	19.1	18.8	18.4	18.3	18.4
5-24	18.8	19.2	19.8	20.6	21.3	22.1	22.8	23.5	24.0	24.5	25.0	25.2
	25.4	25.2	25.0	24.5	24.1	23.6	23.3	22.8	22.4	21.9	21.6	21.3
5-25	21.1	20.9	20.9	21.3	21.6	21.8	22.4	23.1	23.5	24.0	24.0	24.1
	24.0	24.0	23.8	23.6	23.3	22.9	22.6	22.1	21.9	21.6	21.3	21.3
5-26	21.3	21.6	21.8	21.9	22.3	22.8	23.1	23.5	23.8	24.1	24.5	24.5
	24.7	24.7	24.9	24.7	24.5	24.3	24.1	23.8	23.6	23.3	23.1	23.1
5-27	23.3	23.6	24.5	25.2	26.3	27.2	28.4	29.5	30.5	31.5	32.1	32.3
	32.3	32.3	32.1	32.1	31.5	31.1	30.5	29.9	29.1	28.6	28.2	27.8
5-28	27.4	27.0	27.0	27.0	27.4	27.6	28.2	28.6	28.9	29.1	29.3	29.3
	29.1	28.9	28.7	28.4	28.0	27.6	27.0	26.7	26.1	25.6	25.0	24.5
5-29	24.0	23.6	23.5	23.3	23.5	23.6	24.0	24.3	24.7	25.2	25.6	26.1
	26.7	27.2	27.8	28.0	28.4	28.6	28.4	28.2	27.8	27.4	27.0	26.7
5-30	26.3	25.8	25.2	24.7	24.1	23.6	22.9	22.3	21.8	20.6	19.5	18.4
	17.0	16.3	15.6	15.0	13.8	13.7	13.6	13.6	13.5	13.3	13.2	13.0
5-31	12.5	12.1	11.8	11.3	11.0	10.5	10.1	9.76	9.44	9.14	8.93	8.64
	8.54	8.44	8.25	8.06	7.87	7.59	7.50	7.41	7.32	7.32	7.14	6.96
6- 1	6.88	6.79	6.62	6.53	6.45	6.37	6.20	6.12	5.96	5.88	5.72	5.49
	5.34	5.04	4.68	4.61	4.48	4.41	4.28	4.48	4.68	4.83	4.75	4.68
6- 2	4.61	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.41	4.41	4.34	4.28
	4.21	4.08	3.95	3.89	3.76	3.64	3.58	3.52	3.64	3.76	3.82	3.82
6- 3	3.82	3.89	4.14	4.41	4.75	5.04	5.26	5.41	5.49	5.57	5.57	5.57
	5.49	5.41	5.34	5.26	5.19	5.04	5.12	5.26	5.34	5.41	5.49	5.49
6- 4	5.57	5.88	6.28	6.79	7.23	7.68	8.06	8.44	8.64	8.83	8.93	8.93
	8.93	8.83	8.74	8.54	8.44	8.34	8.25	8.15	8.15	8.15	8.44	8.64
6- 5	8.93	9.24	9.76	10.3	10.8	11.3	11.9	12.4	12.8	13.2	13.6	14.0
	14.2	14.2	14.0	13.8	13.6	13.3	13.0	12.7	12.5	12.1	11.8	11.6
6- 6	11.9	12.1	12.6	13.1	13.5	14.0	14.6	15.2	15.7	16.1	16.5	17.0
	17.3	17.4	17.4	17.3	17.1	16.8	16.5	16.3	16.0	15.7	15.3	15.0

TABLE 6.- HOURLY DISCHARGE(1), IN CUBIC METERS PER SECOND, AT SECTION 0000, EAST FORK RIVER, WYOMING, 1979--CONTINUED

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
6- 7	14.6	14.4	14.4	14.4	14.4	14.4	14.5	14.6	14.5	14.2	13.8	13.6
	13.0	12.4	11.8	11.2	10.8	10.7	10.7	10.7	10.8	10.7	10.4	10.1
6- 8	9.65	9.14	8.83	8.64	8.34	8.15	7.96	7.77	7.50	7.32	7.14	6.96
	6.70	6.53	6.28	6.12	5.96	5.72	5.57	5.41	5.34	5.26	5.34	5.41
6- 9	5.41	5.26	5.12	5.04	4.90	4.83	4.68	4.55	4.41	4.28	4.08	3.95
	3.89	3.82	3.70	3.64	3.52	3.46	3.40	3.46	3.58	3.76	3.76	3.70
6-10	3.64	3.64	3.58	3.58	3.58	3.58	3.64	3.70	3.70	3.76	3.76	3.70
	3.70	3.64	3.58	3.52	3.52	3.46	3.40	3.40	3.40	3.46	3.52	3.52
6-11	3.58	3.58	3.64	3.89	4.34	4.75	5.19	5.57	5.88	5.96	6.12	6.20
	6.28	6.28	6.20	6.12	6.04	5.96	5.88	5.80	5.72	5.64	5.64	5.72
6-12	5.88	6.04	6.37	6.70	7.05	7.50	7.87	8.15	8.44	8.64	8.74	8.83
	8.83	8.74	8.64	8.54	8.25	8.06	7.87	7.77	7.50	7.32	7.32	7.50
6-13	7.68	8.15	8.64	9.34	9.97	10.6	11.3	12.0	12.5	13.0	13.3	13.7
	14.1	14.2	14.2	14.1	13.8	13.2	12.7	12.1	11.5	11.1	10.7	10.6
6-14	10.5	10.6	11.2	11.9	12.6	13.3	14.2	15.2	15.7	16.3	16.7	17.1
	17.4	17.7	17.6	17.3	16.7	16.3	15.6	15.0	14.4	13.7	13.2	12.7
6-15	12.5	12.2	12.5	12.8	13.2	13.7	14.2	14.8	15.0	15.4	15.6	15.6
	15.4	15.2	15.0	14.2	13.5	12.8	12.1	11.4	10.8	10.3	9.97	9.55
6-16	9.24	8.93	8.83	8.83	8.83	8.83	8.93	9.04	9.14	9.04	8.93	8.83
	8.74	8.64	8.44	8.15	7.96	7.77	7.50	7.23	7.05	6.79	6.62	6.45
6-17	6.28	6.28	6.28	6.37	6.53	6.79	6.88	7.05	7.23	7.32	7.32	7.32
	7.14	6.88	6.70	6.45	6.28	6.12	5.72	5.64	5.41	5.26	5.12	4.97
6-18	4.90	4.83	4.90	5.04	5.26	5.49	5.72	5.88	6.04	6.12	6.28	6.28
	6.20	6.12	6.12	6.04	5.88	5.64	5.49	5.41	5.26	5.12	4.97	4.90
6-19	4.83	4.75	4.68	4.55	4.48	4.41	4.34	4.21	4.14	4.08	4.01	3.95
	3.89	3.76	3.70	3.64	3.52	3.46	3.40	3.34	3.28	3.23	3.17	3.12
6-20	3.12	3.06	3.00	3.00	2.95	2.95	2.90	2.90	2.90	2.84	2.84	2.79
	2.69	2.59	2.54	2.54	2.49	2.44	2.44	2.39	2.39	2.34	2.34	2.29
6-21	2.29	2.25	2.25	2.25	2.20	2.20	2.20	2.20	2.20	2.25	2.25	2.29
	2.25	2.25	2.20	2.20	2.20	2.20	2.16	2.16	2.16	2.11	2.11	2.07
6-22	2.07	2.07	2.02	2.02	2.02	2.02	2.02	2.11	2.25	2.44	2.59	2.74
	2.79	2.79	2.79	2.74	2.69	2.64	2.59	2.54	2.54	2.49	2.44	2.39
6-23	2.34	2.29	2.25	2.20	2.20	2.20	2.25	2.44	2.59	2.74	2.79	2.84
	2.84	2.84	2.79	2.79	2.74	2.74	2.64	2.59	2.54	2.49	2.44	2.39
6-24	2.34	2.34	2.29	2.29	2.25	2.25	2.25	2.34	2.49	2.69	2.79	2.90
	2.95	2.95	2.95	2.90	2.84	2.79	2.74	2.69	2.64	2.59	2.54	2.49
6-25	2.44	2.39	2.34	2.29	2.29	2.25	2.25	2.39	2.59	2.79	2.90	3.00
	3.12	3.17	3.12	3.06	3.00	2.95	2.90	2.84	2.79	2.74	2.69	2.64
6-26	2.54	2.49	2.44	2.39	2.34	2.34	2.34	2.44	2.54	2.64	2.74	2.79
	2.79	2.79	2.79	2.84	2.79	2.79	2.74	2.69	2.64	2.59	2.54	2.49
6-27	2.44	2.44	2.39	2.34	2.34	2.29	2.29	2.39	2.49	2.69	2.79	2.90
	2.95	2.95	3.12	3.58	3.52	3.34	2.95	2.84	2.74	2.64	2.59	2.54
6-28	2.54	2.49	2.44	2.39	2.39	2.34	2.39	2.44	2.49	2.54	2.59	2.64
	2.64	2.69	2.64	2.64	2.64	2.54	2.49	2.44	2.44	2.39	2.34	2.34
6-29	2.29	2.29	2.25	2.25	2.25	2.20	2.20	2.20	2.25	2.34	2.49	2.54
	2.64	2.64	2.69	2.64	2.59	2.54	2.49	2.44	2.39	2.34	2.29	2.25
6-30	2.25	2.25	2.20	2.20	2.16	2.16	2.16	2.16	2.20	2.20	2.29	2.39
	2.44	2.49	2.49	2.54	2.54	2.49	2.44	2.39	2.34	2.34	2.29	2.25
7- 1	2.20	2.20	2.20	2.16	2.16	2.16	2.11	2.11	2.11	2.11	2.07	2.07
	2.07	2.02	2.02	2.02	1.98	1.98	1.98	1.94	1.94	1.94	1.89	1.89
7- 2	1.89	1.85	1.85	1.85	1.81	1.81	1.81	1.77	1.81	1.81	1.85	1.85
	1.89	1.89	1.89	1.89	1.89	1.85	1.85	1.81	1.81	1.81	1.81	1.77
7- 3	1.77	1.77	1.73	1.73	1.73	1.73	1.69	1.69	1.69	1.69	1.69	1.69
	1.69	1.73	1.73	1.73	1.69	1.69	1.69	1.69	1.65	1.65	1.65	1.65
7- 4	1.65	1.65	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
	1.61	1.61	1.61	1.61	1.61	1.61	1.57	1.57	1.57	1.57	1.57	1.57

TABLE 6.- HOURLY DISCHARGE(1), IN CUBIC METERS PER SECOND, AT SECTION 0000, EAST FORK RIVER, WYOMING, 1979--CONTINUED

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
7- 5	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.54	1.54	1.54
	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
7- 6	1.54	1.54	1.54	1.54	1.54	1.54	1.50	1.50	1.50	1.50	1.50	1.46
	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
7- 7	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
	1.46	1.46	1.46	1.46	1.46	1.46	1.43	1.43	1.43	1.43	1.43	1.43
7- 8	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.35	1.35	1.35	1.35	1.35
7- 9	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
	1.35	1.35	1.32	1.32	1.32	1.32	1.32	1.32	1.29	1.29	1.29	1.29
7-10	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
	1.29	1.29	1.29	1.29	1.25	1.25	1.25	1.25	1.25	1.25	1.22	1.22
7-11	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.25	1.25	1.25	1.25	1.25
	1.25	1.25	1.25	1.25	1.22	1.22	1.22	1.22	1.22	1.19	1.19	1.19
7-12	1.19	1.19	1.19	1.15	1.15	1.15	1.19	1.19	1.19	1.19	1.22	1.22
	1.22	1.22	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	1.19	1.15
7-13	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.19	1.22	1.22	1.22	1.22
	1.19	1.19	1.19	1.19	1.19	1.15	1.15	1.15	1.15	1.15	1.12	1.12
7-14	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.15	1.15	1.15	1.15	1.15
	1.15	1.15	1.15	1.15	1.12	1.12	1.09	1.09	1.09	1.09	1.09	1.06
7-15	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.09	1.09	1.09
	1.09	1.09	1.09	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
7-16	1.06	1.06	1.06	1.06	1.06	1.06	1.09	1.09	1.09	1.09	1.12	1.12
	1.12	1.12	1.12	1.12	1.12	1.09	1.09	1.09	1.09	1.09	1.06	1.06
7-17	1.06	1.06	1.09	1.09	1.09	1.09	1.09	1.09	1.12	1.12	1.15	1.15
	1.15	1.15	1.15	1.15	1.15	1.15	1.12	1.09	1.06	1.06	1.06	1.06
7-18	1.06	1.09	1.09	1.09	1.09	1.09	1.09	1.12	1.12	1.12	1.12	1.12
	1.12	1.09	1.09	1.09	1.09	1.06	1.06	1.06	1.06	1.06	1.06	1.06
7-19	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
	1.03	1.03	1.03	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
7-20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.03	1.03	1.06
	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.09	1.09	1.09
7-21	1.12	1.12	1.12	1.12	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
7-22	1.15	1.15	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.15	1.15	1.15
	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
7-23	1.19	1.19	1.19	1.19	1.19	1.22	1.22	1.22	1.22	1.25	1.25	1.25
	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
7-24	1.25	1.25	1.25	1.25	1.25	1.25	1.29	1.29	1.32	1.32	1.32	1.35
	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
7-25	1.35	1.35	1.35	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
	1.32	1.32	1.32	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.25	1.25
7-26	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
	1.25	1.25	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.15	1.15	1.15
7-27	1.15	1.15	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.09
	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.06	1.06	1.06
7-28	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.09	1.09	1.12	1.15
	1.22	1.32	1.32	1.32	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
7-29	1.35	1.35	1.32	1.32	1.29	1.29	1.29	1.29	1.32	1.32	1.32	1.32
	1.32	1.32	1.32	1.29	1.29	1.29	1.29	1.32	1.32	1.35	1.35	1.35
7-30	1.35	1.32	1.29	1.29	1.25	1.22	1.22	1.22	1.22	1.25	1.25	1.25
	1.25	1.25	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
7-31	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.15	1.15	1.15	1.15
8- 1	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.12	1.12	1.12	1.12

TABLE 6.- HOURLY DISCHARGE(1), IN CUBIC METERS PER SECOND, AT SECTION 0000, EAST FORK RIVER, WYOMING, 1979--CONTINUED

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
8- 2	1.12	1.12	1.12	1.12	1.12	1.12	1.09	1.09	1.12	1.12	1.15	1.15
	1.15	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.09
8- 3	1.09	1.09	1.09	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
	1.12	1.12	1.12	1.12	1.12	1.09	1.09	1.09	1.09	1.09	1.09	1.09
8- 4	1.09	1.09	1.09	1.06	1.06	1.06	1.06	1.06	1.09	1.09	1.09	1.09
	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.06	1.06	1.06	1.06	1.06
8- 5	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
8- 6	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
8- 7	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
8- 8	1.06	1.06	1.06	1.06	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
8- 9	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
8-10	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.15	1.15	1.15	1.15	1.15
	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
8-11	1.15	1.15	1.15	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
	1.19	1.19	1.19	1.19	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
8-12	1.15	1.15	1.15	1.15	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.09	1.12	1.12
8-13	1.12	1.12	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.19	1.19	1.19
	1.19	1.19	1.19	1.19	1.19	1.22	1.22	1.22	1.22	1.22	1.22	1.22
8-14	1.25	1.25	1.25	1.29	1.29	1.32	1.32	1.35	1.39	1.39	1.43	1.46
	1.46	1.50	1.50	1.54	1.54	1.57	1.57	1.61	1.61	1.65	1.65	1.65
8-15	1.65	1.65	1.65	1.65	1.73	1.77	1.77	1.81	1.81	1.81	1.81	1.81
	1.81	1.81	1.85	1.85	1.85	1.85	1.85	1.85	1.81	1.81	1.81	1.81
8-16	1.85	1.89	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.94	1.94	1.94
	1.94	1.94	1.89	1.89	1.89	1.85	1.85	1.81	1.81	1.81	1.81	1.81
8-17	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.77	1.77
	1.77	1.77	1.77	1.77	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
8-18	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.65	1.65	1.65
	1.65	1.65	1.65	1.65	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.65
8-19	1.65	1.69	1.69	1.69	1.69	1.73	1.73	1.73	1.77	1.81	1.98	2.11
	2.20	2.25	2.29	2.44	2.54	2.39	2.34	2.34	2.39	2.39	2.39	2.39
8-20	2.39	2.39	2.39	2.44	2.49	2.49	2.54	2.59	2.64	2.74	2.84	2.95
	3.12	3.28	3.40	3.64	3.82	3.89	3.89	3.95	4.01	4.08	4.14	4.21
8-21	4.21	4.21	4.21	4.28	4.28	4.41	4.48	4.61	4.68	4.68	4.68	4.68
	4.61	4.61	4.61	4.48	4.41	4.34	4.28	4.21	4.21	4.14	4.28	4.08
8-22	3.95	3.89	3.82	3.76	3.70	3.70	3.64	3.58	3.52	3.46	3.46	3.40
	3.34	3.28	3.23	3.17	3.12	3.06	3.06	3.00	2.95	2.95	2.90	2.90
8-23	2.84	2.90	3.00	3.00	3.00	2.95	2.95	2.95	2.90	2.90	2.84	2.84
	2.84	2.79	2.79	2.74	2.74	2.74	2.69	2.69	2.64	2.64	2.59	2.59
8-24	2.64	2.59	2.59	2.59	2.54	2.54	2.54	2.49	2.49	2.49	2.49	2.49
	2.44	2.44	2.39	2.39	2.39	2.34	2.34	2.34	2.29	2.29	2.29	2.25
8-25	2.25	2.25	2.25	2.25	2.20	2.20	2.20	2.20	2.20	2.16	2.16	2.16
	2.16	2.11	2.11	2.11	2.07	2.07	2.07	2.02	2.02	2.02	2.02	1.98
8-26	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.94	1.94	1.94	1.94	1.94
	1.94	1.94	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.85	1.85	1.85
8-27	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85
	1.81	1.81	1.81	1.77	1.77	1.77	1.77	1.73	1.73	1.73	1.73	1.73
8-28	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
	1.69	1.69	1.69	1.69	1.69	1.65	1.65	1.65	1.65	1.65	1.61	1.61
8-29	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
	1.61	1.61	1.57	1.57	1.57	1.54	1.54	1.54	1.54	1.50	1.50	1.50

TABLE 6.- HOURLY DISCHARGE(1), IN CUBIC METERS PER SECOND, AT SECTION 0000, EAST FORK RIVER, WYOMING, 1979--CONTINUED

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
8-30	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	1.50	1.50	1.46	1.46	1.46	1.46	1.46	1.43	1.43	1.43	1.43	1.43
8-31	1.43	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.43	1.43
	1.43	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.35
9- 1	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
	1.35	1.35	1.35	1.35	1.35	1.35	1.32	1.32	1.32	1.32	1.32	1.32
9- 2	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.32	1.32	1.32	1.32
	1.32	1.32	1.32	1.32	1.32	1.32	1.29	1.29	1.29	1.29	1.29	1.29
9- 3	1.29	1.29	1.29	1.29	1.25	1.25	1.25	1.29	1.29	1.29	1.29	1.29
	1.29	1.29	1.29	1.25	1.25	1.25	1.25	1.25	1.25	1.22	1.22	1.22
9- 4	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
9- 5	1.19	1.19	1.19	1.19	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
	1.15	1.15	1.15	1.15	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
9- 6	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.09
	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
9- 7	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.06	1.06	1.06	1.06	1.06
	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
9- 8	1.06	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.00
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

(1) DISCHARGES BELOW 3 CUBIC METERS PER SECOND ARE ESTIMATED BY EXTRAPOLATION OF WATER-LEVEL TO DISCHARGE RELATION DETERMINED FROM DATA LISTED IN TABLE 4.

TABLE 7.- HOURLY DISCHARGE(1), IN CUBIC METERS PER SECOND, AT SECTION 3295, EAST FORK RIVER, WYOMING, 1979

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
5-17	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90
	3.90	3.90	3.83	3.69	3.56	3.49	3.49	3.49	3.56	3.76	4.18	4.61
5-18	4.98	5.43	5.82	6.21	6.21	6.29	6.29	6.29	6.29	6.13	6.05	5.90
	5.74	5.66	5.51	5.43	5.43	5.43	5.58	5.74	5.74	5.98	6.38	6.78
5-19	7.20	7.62	7.80	7.88	8.06	8.14	8.06	7.88	7.80	7.62	7.37	7.03
	6.78	6.62	6.46	6.62	6.62	6.29	6.21	6.29	6.62	6.95	7.54	8.14
5-20	8.76	9.40	10.0	10.5	10.9	11.2	11.4	11.4	11.4	11.3	11.1	11.0
	10.7	10.4	10.4	10.7	10.8	10.4	10.3	10.3	10.6	10.9	11.4	11.8
5-21	12.4	12.9	13.2	13.5	13.7	13.9	14.0	13.9	13.9	13.7	13.5	13.3
	13.0	12.7	12.3	12.1	11.8	11.5	11.5	11.8	12.3	12.9	13.4	14.0
5-22	14.5	15.1	15.5	16.1	16.7	17.1	17.5	17.9	18.2	18.2	17.9	17.7
	17.5	17.3	16.9	16.5	16.1	15.9	15.5	15.4	15.3	15.4	15.5	15.9
5-23	16.7	17.5	18.4	19.3	19.9	20.9	21.1	21.6	21.6	21.9	21.9	21.6
	20.9	20.2	19.5	18.8	18.2	17.5	16.9	16.5	16.1	16.5	17.1	17.7
5-24	18.4	19.3	20.4	21.6	22.3	23.4	23.9	24.1	24.7	24.9	25.2	25.2
	25.2	24.9	24.1	23.4	22.8	22.3	22.1	21.6	21.4	20.9	20.6	20.6
5-25	20.9	21.1	21.6	22.1	22.8	23.4	24.1	24.4	24.7	24.7	24.9	24.9
	24.7	24.4	24.1	23.9	23.6	23.4	22.6	22.1	21.9	21.6	21.6	22.1
5-26	22.3	22.6	23.1	23.6	23.9	24.4	24.7	24.9	25.2	25.5	25.7	25.7
	25.5	25.5	25.2	25.2	24.9	24.7	24.4	24.4	24.1	24.1	24.1	24.4
5-27	24.9	25.7	26.5	27.7	28.5	29.7	30.9	31.8	32.5	33.4	33.4	33.4
	33.1	32.5	32.1	31.5	31.2	30.6	30.0	29.4	28.8	28.8	28.5	28.2
5-28	28.2	28.2	28.2	28.8	29.1	29.4	29.7	30.0	30.3	30.3	30.3	30.3
	30.0	29.4	29.1	28.8	28.5	28.0	27.7	27.1	26.5	26.3	26.0	25.7
5-29	25.5	25.2	25.2	25.2	25.5	25.7	26.3	26.8	27.1	27.7	28.2	28.8
	29.1	29.4	30.0	30.3	30.3	30.3	30.0	29.7	29.4	28.8	28.5	28.0
5-30	27.4	27.1	26.5	25.7	25.2	24.1	23.4	22.1	20.6	19.7	18.8	17.5
	16.1	15.3	14.6	14.4	14.2	14.0	14.0	14.0	13.9	13.6	13.3	13.1
5-31	12.7	12.4	12.1	11.8	11.4	11.1	10.8	10.5	10.3	10.0	9.86	9.68
	9.40	9.22	9.03	8.76	8.59	8.50	8.41	8.32	8.14	7.88	7.80	7.71
6- 1	7.62	7.54	7.37	7.28	7.12	6.95	6.87	6.70	6.62	6.29	6.05	5.74
	5.35	5.13	4.98	4.83	4.75	4.90	5.20	5.28	5.20	5.20	5.13	5.05
6- 2	4.98	4.90	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.68	4.54	4.32
	4.18	3.97	3.83	3.69	3.56	3.49	3.76	3.90	3.90	3.90	3.90	3.90
6- 3	4.18	4.39	4.68	4.90	5.13	5.35	5.58	5.74	5.90	5.90	5.74	5.66
	5.58	5.43	5.35	5.20	5.28	5.43	5.58	5.58	5.58	5.58	5.74	6.05
6- 4	6.62	7.12	7.71	8.23	8.67	9.13	9.40	9.68	9.77	9.86	9.86	9.77
	9.68	9.49	9.40	9.31	9.13	9.13	9.13	9.13	9.13	9.31	9.68	10.0
6- 5	10.5	11.0	11.5	12.0	12.5	12.9	13.4	13.8	14.2	14.6	14.8	14.8
	14.6	14.5	14.3	14.0	13.7	13.4	13.1	12.9	12.8	12.8	12.9	13.0
6- 6	13.4	13.8	14.3	14.8	15.2	15.6	16.5	17.1	17.5	18.2	18.4	18.8
	19.0	19.0	18.6	18.4	17.9	17.5	16.9	16.5	16.1	15.6	15.4	15.2
6- 7	15.1	14.9	14.9	14.9	15.2	15.5	15.9	15.5	15.3	14.9	14.4	14.0
	13.6	13.1	12.6	12.1	11.9	11.7	11.9	12.0	12.0	11.6	11.3	10.9
6- 8	10.6	10.3	10.0	9.68	9.40	9.13	8.94	8.76	8.50	8.32	8.06	7.88
	7.62	7.37	7.12	6.87	6.62	6.46	6.29	6.21	6.21	6.21	6.21	6.13
6- 9	5.98	5.82	5.58	5.43	5.35	5.20	5.13	5.05	4.90	4.68	4.46	4.25
	4.11	3.97	3.90	3.76	3.56	3.63	3.90	3.97	3.97	3.97	3.90	3.83
6-10	3.76	3.76	3.69	3.69	3.63	3.63	3.56	3.56	3.49	3.43	3.36	3.30
	3.23	3.30	3.36	3.43	3.43	3.43	3.56	3.63	3.69	3.76	3.76	3.76
6-11	3.69	3.63	3.63	4.11	4.75	5.28	5.90	6.29	6.46	6.70	6.70	6.70
	6.70	6.62	6.54	6.38	6.29	6.21	6.13	6.05	5.98	5.90	5.98	6.13
6-12	6.54	6.87	7.28	7.62	8.14	8.59	8.94	9.22	9.40	9.58	9.58	9.49
	9.40	9.31	9.03	8.85	8.67	8.41	8.23	7.97	7.88	7.88	8.06	8.32
6-13	8.76	9.40	10.0	10.7	11.4	12.1	12.8	13.4	14.0	14.5	14.8	15.0
	15.2	15.1	14.8	14.5	13.9	13.4	13.0	12.6	12.1	11.6	11.5	11.5

TABLE 7.- HOURLY DISCHARGE(1), IN CUBIC METERS PER SECOND, AT SECTION 3295, EAST FORK RIVER, WYOMING, 1979--CONTINUED

DATE	TIME IN HOURS											
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
6-14	11.8	12.4	13.1	13.8	14.5	15.2	15.9	16.7	17.5	18.2	18.4	18.8
	19.0	18.8	18.2	17.7	16.7	15.9	15.1	14.4	13.9	13.4	13.1	12.9
6-15	12.8	12.8	12.9	13.4	13.9	14.3	14.9	15.4	16.1	16.5	16.1	15.9
	15.4	15.2	14.5	13.9	13.3	12.8	12.1	11.4	10.9	10.4	10.2	10.0
6-16	9.85	9.86	9.86	9.86	9.86	9.95	10.0	10.0	10.0	10.0	9.86	9.68
	9.40	9.22	9.03	8.76	8.41	8.14	7.97	7.80	7.62	7.45	7.20	7.20
6-17	7.12	7.20	7.28	7.45	7.54	7.71	7.88	8.06	8.06	8.06	7.97	7.62
	7.45	7.28	7.12	6.78	6.46	6.21	5.98	5.74	5.58	5.43	5.28	5.20
6-18	5.20	5.28	5.51	5.74	5.90	6.13	6.38	6.62	6.62	6.62	6.54	6.46
	6.29	6.21	6.13	5.98	5.82	5.58	5.43	5.35	5.20	5.05	4.98	4.90
6-19	4.83	4.75	4.68	4.54	4.46	4.32	4.25	4.14	4.04	3.97	3.90	3.76
	3.69	3.63	3.56	3.49	3.43	3.36	3.30	3.23	3.17	3.17	3.10	3.04
6-20	3.04	2.98	2.98	2.91	2.85	2.85	2.79	2.73	2.73	2.67	2.60	2.54
	2.54	2.49	2.43	2.43	2.37	2.31	2.25	2.25	2.19	2.14	2.08	2.02
6-21	2.02	2.02	2.02	1.97	1.97	1.97	1.97	2.02	2.02	2.14	2.02	1.97
	1.97	1.91	1.91	1.91	1.91	1.86	1.86	1.81	1.75	1.75	1.70	1.70
6-22	1.65	1.65	1.65	1.70	1.70	1.81	2.02	2.31	2.49	2.67	2.73	2.67
	2.67	2.60	2.54	2.49	2.43	2.37	2.31	2.25	2.19	2.14	2.08	2.02
6-23	2.02	1.97	1.91	1.86	1.86	1.86	2.08	2.31	2.54	2.67	2.73	2.73
	2.73	2.67	2.60	2.54	2.49	2.43	2.37	2.31	2.25	2.19	2.14	2.14
6-24	2.08	2.02	1.97	1.91	1.91	1.97	2.19	2.43	2.67	2.73	2.85	2.85
	2.79	2.73	2.73	2.67	2.60	2.54	2.49	2.37	2.31	2.25	2.19	2.14
6-25	2.08	2.02	2.02	2.02	2.14	2.31	2.49	2.67	2.85	2.98	3.04	3.04
	2.98	2.91	2.85	2.79	2.73	2.67	2.60	2.54	2.49	2.43	2.37	2.31
6-26	2.25	2.19	2.14	2.02	2.02	2.14	2.31	2.54	2.60	2.67	2.67	2.67
	2.67	2.67	2.67	2.60	2.54	2.49	2.49	2.43	2.37	2.31	2.31	2.25
6-27	2.19	2.14	2.14	2.08	2.14	2.31	2.49	2.54	2.67	2.73	2.73	2.73
	3.23	3.43	3.43	3.04	2.67	2.60	2.54	2.49	2.43	2.37	2.31	2.25
6-28	2.19	2.14	2.14	2.08	2.14	2.25	2.31	2.31	2.37	2.37	2.43	2.43
	2.37	2.37	2.31	2.31	2.25	2.19	2.19	2.14	2.08	2.02	2.02	1.97
6-29	1.91	1.91	1.86	1.86	1.86	1.91	1.97	2.08	2.19	2.31	2.37	2.37
	2.43	2.37	2.37	2.31	2.25	2.19	2.14	2.02	1.97	1.91	1.91	1.86
6-30	1.86	1.81	1.75	1.75	1.70	1.70	1.75	1.91	2.02	2.14	2.25	2.31
	2.37	2.31	2.25	2.19	2.14	2.02	2.02	1.97	1.97	1.97	1.91	1.91
7- 1	1.91	1.86	1.86	1.86	1.81	1.81	1.81	1.75	1.75	1.75	1.70	1.70
	1.70	1.70	1.70	1.75	1.75	1.75	1.70	1.70	1.70	1.70	1.65	1.65
7- 2	1.65	1.60	1.60	1.60	1.54	1.54	1.54	1.49	1.49	1.44	1.44	1.39
	1.39	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.39	1.39

(1) MAIN CHANNEL DISCHARGE; EXCLUDES SHALLOW FLOWS OVER ADJACENT FLOODPLAIN. DISCHARGES BELOW 3 CUBIC METERS PER SECOND ARE ESTIMATED BY EXTRAPOLATION OF WATER-LEVEL TO DISCHARGE RELATION DETERMINED FROM DATA LISTED IN TABLE 5.

TABLE 8.- GRAIN-SIZE DISTRIBUTION OF BED MATERIAL, EAST FORK RIVER, WYOMING, 1979

CROSS SECTION	DATE	DISTANCE(1) FROM	TO	BED(2) MATERIAL	DISTRIBUTION, PERCENT FINER THAN INDICATED SIEVE SIZE IN MILLIMETERS .062	.125	.250	.500	1.00	2.00	4.00	8.00	16.0	32.0	64.0
0043	5-19	3.8	6.0	BM											
		6.0	14.0	SG	1	2	5	50	77	93	99	100	--	--	--
		14.0	20.0	SG	0.3	1	1	8	28	58	90	99	100	--	--
		20.0	21.3	BM											
		WEIGHTED MEAN(3)			0.7	1.6	3.3	32.0	56.0	78.0	95.1	99.6	100.0	--	--
0075	5-19	1.8	3.3	BM											
		3.3	5.0	SG	0.2	0.3	0.5	7	11	27	65	93	100	--	--
		5.0	19.3	SG	1	1	3	33	56	78	93	98	100	--	--
		WEIGHTED MEAN(3)			0.9	0.9	2.7	30.2	51.2	72.6	90.0	97.5	100.0	--	--
0137	5-19	2.7	7.0	BM											
		7.0	13.0	SG	1	2	10	21	25	30	42	57	74	88	100
		13.0	20.0	SG	0.2	0.5	2	8	11	14	20	26	40	62	100
		20.0	21.7	BM											
		WEIGHTED MEAN(3)			0.6	1.2	5.7	14.0	17.5	21.4	30.2	40.3	55.7	74.0	100.0
0220	5-19	2.7	7.5	BM											
		7.5	11.5	SG	1	1	4	7	11	17	26	36	54	78	100
		11.5	20.0	SG	1	2	3	30	55	77	96	100	--	--	--
		20.0	21.5	BM											
		WEIGHTED MEAN(3)			1.0	1.7	3.3	22.6	40.9	57.8	73.6	79.5	85.3	93.0	100.0
0301	5-19	2.8	5.0	BM											
		5.0	10.5	SG	1	2	6	31	47	67	88	98	100	--	--
		10.5	13.0	SG	0.4	1	4	15	18	22	29	39	56	92	100
		13.0	15.7	BM											
		WEIGHTED MEAN(3)			0.8	1.7	5.4	26.0	37.9	52.9	69.6	79.6	86.3	97.5	100.0
0421	5-19	1.7	3.0	HR											
		3.0	7.0	SG	26	36	53	73	81	87	96	100	--	--	--
		7.0	17.0	SG	1	3	14	26	32	42	58	74	98	100	--
		17.0	26.0	SG	2	5	23	61	72	86	94	97	100	--	--
		26.0	27.3	BM											
		WEIGHTED MEAN(3)			5.7	9.5	24.3	47.9	56.2	67.0	78.7	87.5	99.1	100.0	--
0516	5-19	2.2	4.5	BM											
		4.5	9.0	SG	0.4	1	6	40	56	79	96	100	--	--	--
		9.0	18.0	SG	1	4	16	34	43	66	93	100	--	--	--
		18.0	20.2	BM											
		WEIGHTED MEAN(3)			0.8	3.0	12.7	36.0	47.3	70.3	94.0	100.0	--	--	--
0602	5-19	0.3	6.0	BM											
		6.0	12.0	SG	1	2	13	62	76	87	96	100	--	--	--
		12.0	20.0	SG	0.4	1	5	15	38	57	81	97	100	--	--
		20.0	21.3	BM											
		WEIGHTED MEAN(3)			0.7	1.4	8.4	35.1	54.3	69.9	87.4	98.3	100.0	--	--
0708	5-19	2.0	3.4	BM											
		3.4	9.0	SG	1	1	3	24	42	58	78	94	100	--	--
		9.0	10.5	SG	0.3	1	2	13	22	27	35	46	62	72	100
		10.5	16.5	SG	2	3	14	60	74	85	94	98	100	--	--
		16.5	19.5	SG	2	6	26	48	51	56	66	75	85	91	100
		19.5	20.1	BM											
		WEIGHTED MEAN(3)			1.5	2.7	11.3	40.9	53.7	64.8	77.7	87.5	93.7	95.7	100.0
0808	5-19	4.8	7.3	SG	3	6	19	90	100	--	--	--	--	--	--
		7.3	12.5	IS											
		12.5	13.2	BM											
		13.2	17.5	SG	1	3	17	61	86	96	98	98	99	100	--
		17.5	29.3	SG	0.4	1	2	4	6	8	11	15	32	69	100
		WEIGHTED MEAN(3)			0.9	2.1	7.8	28.7	37.1	40.7	43.1	45.6	56.6	80.3	100.0

TABLE 8.- GRAIN-SIZE DISTRIBUTION OF BED MATERIAL, EAST FORK RIVER, WYOMING, 1979--CONTINUED

CROSS SECTION	DATE	DISTANCE(1) FROM	TO	BED(2) MATERIAL	DISTRIBUTION, PERCENT FINER THAN INDICATED SIEVE SIZE IN MILLIMETERS .062	.125	.250	.500	1.00	2.00	4.00	8.00	16.0	32.0	64.0
0898	5-19	10.0	11.0	BM											
		11.0	18.0	SG	0.3	1	2	14	21	27	33	41	62	88	100
		18.0	25.8	SG	2	4	8	12	14	16	19	24	46	89	100
				WEIGHTED MEAN(3)	1.2	2.6	5.2	12.9	17.3	21.2	25.6	32.0	53.6	88.5	100.0
0985	5-19	10.5	18.0	SG	3	7	31	71	82	94	100	--	--	--	--
		18.0	27.0	SG	1	2	23	47	53	63	75	91	100	--	--
		27.0	32.8	SG	1	2	4	6	6	8	10	16	38	85	100
		32.8	33.1	BM											
				WEIGHTED MEAN(3)	1.7	3.7	20.7	44.4	50.5	59.1	66.5	74.5	83.9	96.1	100.0
1077	5-19	3.7	5.0	BM											
		5.0	14.5	SG	0.4	1	4	15	21	36	62	88	100	--	--
		14.5	24.0	SG	1	1	8	52	73	91	99	100	--	--	--
		24.0	26.5	BM											
				WEIGHTED MEAN(3)	0.7	1.0	6.0	33.5	47.0	63.5	80.5	94.0	100.0	--	--
1155	5-19	2.7	10.5	SG	1	3	7	10	13	17	25	35	61	90	100
		10.5	14.5	SG	1	1	2	37	51	78	97	100	--	--	--
		14.5	19.0	BM											
				WEIGHTED MEAN(3)	1.0	2.3	5.3	19.2	25.9	37.7	49.4	57.0	74.2	93.4	100.0
1241	5-19	7.7	18.0	SG	1	2	5	30	44	65	88	98	100	--	--
		18.0	20.7	SG	2	3	8	17	21	24	33	56	81	90	100
		20.7	22.1	BM											
				WEIGHTED MEAN(3)	1.2	2.2	5.6	27.3	39.2	56.5	76.6	89.3	96.1	97.9	100.0
1315	5-19	2.3	8.0	SG	1	2	5	6	8	11	23	57	90	100	--
		8.0	18.0	SG	3	6	41	57	61	68	81	96	100	--	--
		18.0	24.0	SG	3	6	28	63	69	86	92	93	100	--	--
		24.0	25.2	BM											
				WEIGHTED MEAN(3)	2.5	4.9	27.9	45.3	49.3	58.0	68.8	84.9	97.4	100.0	--
1396	5-19	4.4	5.0	BM											
		5.0	13.5	SG	1	3	7	12	16	22	32	45	80	89	100
		13.5	16.0	SG	2	3	6	24	45	73	95	100	--	--	--
		16.0	17.5	BM											
				WEIGHTED MEAN(3)	1.2	3.0	6.8	14.7	22.6	33.6	46.3	57.5	84.5	91.5	100.0
1481	5-19	2.5	4.0	BM											
		4.0	6.0	SG	3	5	10	34	52	76	97	100	--	--	--
		6.0	14.5	SG	4	7	16	29	34	43	58	73	94	100	--
		14.5	17.0	BM											
		17.0	20.9	IS											
		20.9	27.5	SG	1	2	8	38	52	63	75	85	100	--	--
				WEIGHTED MEAN(3)	2.7	4.8	12.2	33.1	43.1	54.6	69.1	80.8	97.0	100.0	--
1662	5-19	6.3	12.0	BM											
		12.0	20.0	SG	3	6	25	75	92	98	100	--	--	--	--
		20.0	22.5	SG	0.3	1	1	12	19	35	75	98	100	--	--
		22.5	24.2	BM											
				WEIGHTED MEAN(3)	2.4	4.8	19.3	60.0	74.6	83.0	94.0	99.5	100.0	--	--
1695	5-19	2.0	4.0	BM											
		4.0	11.0	SG	1	4	19	59	83	89	97	100	--	--	--
		11.0	15.0	SG	0.5	1	7	19	23	36	61	84	99	100	--
		15.0	18.0	SG	1	2	6	14	19	26	39	54	86	100	--
		18.0	20.3	BM											
				WEIGHTED MEAN(3)	0.9	2.7	12.8	37.9	52.1	60.4	74.3	85.6	96.7	100.0	--
1766	5-19	6.5	11.5	SG	1	1	4	25	41	72	95	100	--	--	--
		11.5	22.5	SG	2	4	11	29	35	46	65	79	99	100	--
		22.5	24.4	BM											
				WEIGHTED MEAN(3)	1.7	3.1	8.8	27.8	36.9	54.1	74.4	85.6	99.3	100.0	--

TABLE 8.- GRAIN-SIZE DISTRIBUTION OF BED MATERIAL, EAST FORK RIVER, WYOMING, 1979--CONTINUED

CROSS SECTION	DATE	DISTANCE(1) FROM	TO	BED(2) MATERIAL	DISTRIBUTION, PERCENT FINER THAN INDICATED SIEVE SIZE IN MILLIMETERS .062	.125	.250	.500	1.00	2.00	4.00	8.00	16.0	32.0	64.0
1830	5-19	1.3	3.5	BR											
		3.5	12.5	SG	1	1	13	86	95	99	100	--	--	--	--
		12.5	22.0	SG	4	7	17	29	33	39	50	66	89	100	--
		22.0	25.8	BM											
				WEIGHTED MEAN(3)	2.5	4.1	15.1	56.7	63.2	68.2	74.3	82.5	94.4	100.0	--
1901	5-19	1.2	5.8	BM											
		5.8	12.0	SG	1	2	4	29	44	66	93	100	--	--	--
		12.0	15.4	SG	0.2	0.3	4	18	24	30	40	52	80	100	--
		15.4	17.1	BM											
				WEIGHTED MEAN(3)	0.7	1.4	4.0	25.1	36.9	53.2	74.2	83.0	92.9	100.0	--
1996	5-19	5.0	15.5	BM											
		15.5	18.0	SG	3	5	11	76	88	96	100	--	--	--	--
		18.0	25.0	SG	1	2	11	47	59	73	87	98	100	--	--
		25.0	28.8	SG	2	5	12	26	33	40	52	64	83	100	--
		28.8	29.4	BM											
				WEIGHTED MEAN(3)	1.7	3.4	11.3	46.5	57.0	67.9	79.4	88.7	95.1	100.0	--
2082	5-19	5.3	8.0	BM											
		8.0	14.0	SG	1	3	10	16	17	22	35	59	86	100	--
		14.0	17.0	SG	1	3	12	26	33	41	54	66	95	100	--
		17.0	24.2	SG	1	3	19	67	71	78	84	90	100	--	--
				WEIGHTED MEAN(3)	1.0	3.0	14.4	40.5	44.0	50.4	60.3	74.1	93.9	100.0	--
2194	5-19	12.0	18.0	SG	3	6	14	24	28	37	44	53	74	95	100
		18.0	27.0	SG	1	2	7	49	66	86	98	100	--	--	--
		27.0	29.1	BM											
				WEIGHTED MEAN(3)	1.8	3.6	9.8	39.0	50.8	66.4	76.4	81.2	89.6	98.0	100.0
2278	5-19	2.0	4.2	BM											
		4.2	9.0	SG	1	3	8	16	19	24	35	48	68	96	100
		9.0	19.0	SG	2	4	32	90	98	100	--	--	--	--	--
		19.0	23.6	BM											
				WEIGHTED MEAN(3)	1.7	3.7	24.2	66.0	72.4	75.4	78.9	83.1	89.6	98.7	100.0
2356	5-19	6.0	11.5	SG	5	13	30	80	85	93	98	100	--	--	--
		11.5	20.8	SG	1	2	5	46	73	91	98	100	--	--	--
		20.8	24.5	SG	0.5	2	5	18	20	26	37	50	89	100	--
		24.5	25.9	BM											
				WEIGHTED MEAN(3)	2.1	5.3	12.4	50.5	66.0	78.6	85.8	90.0	97.8	100.0	--
2422	5-19	3.2	5.0	BM											
		5.0	13.0	SG	1	1	3	37	52	82	99	100	--	--	--
		13.0	22.5	SG	1	3	14	27	34	45	60	68	90	97	100
		22.5	24.5	BM											
				WEIGHTED MEAN(3)	1.0	2.1	9.0	31.6	42.2	61.9	77.8	82.6	94.6	98.4	100.0
2510	5-19	6.8	8.5	BM											
		8.5	18.5	SG	1	2	9	47	73	91	99	100	--	--	--
		18.5	23.4	SG	2	3	5	7	9	11	16	21	32	39	100
		23.4	24.1	BM											
				WEIGHTED MEAN(3)	1.3	2.3	7.7	33.8	52.0	64.7	71.7	74.0	77.6	79.9	100.0
2608	5-18	2.0	4.0	BM											
		4.0	10.5	SG	1	2	11	33	37	43	50	58	82	100	--
		10.5	16.0	SG	1	2	14	48	69	87	98	100	--	--	--
		16.0	17.5	BM											
				WEIGHTED MEAN(3)	1.0	2.0	12.4	39.9	51.7	63.2	72.0	77.3	90.3	100.0	--
2690	5-18	1.8	6.0	BM											
		6.0	13.5	SG	2	3	11	38	48	67	86	98	100	--	--
		13.5	17.0	SG	1	3	12	23	28	36	48	64	91	100	--
		17.0	19.1	BM											
				WEIGHTED MEAN(3)	1.7	3.0	11.3	33.2	41.6	57.1	73.9	87.2	97.1	100.0	--

TABLE 8.- GRAIN-SIZE DISTRIBUTION OF BED MATERIAL, EAST FORK RIVER, WYOMING, 1979--CONTINUED

CROSS SECTION	DATE	DISTANCE(1) FROM	TO	BED(2) MATERIAL	DISTRIBUTION, PERCENT FINER THAN INDICATED SIEVE SIZE IN MILLIMETERS .062	.125	.250	.500	1.00	2.00	4.00	8.00	16.0	32.0	64.0
2778	5-18	7.4	8.8	BM											
		8.8	17.0	SG	4	7	13	22	26	32	41	54	88	100	--
		17.0	22.0	SG	1	2	8	24	30	42	62	76	98	100	--
		22.0	26.8	SG	1	2	9	25	30	37	49	68	97	100	--
		26.8	28.8	BM											
		WEIGHTED MEAN(3)			2.4	4.3	10.5	23.4	28.2	36.1	49.0	63.8	93.2	100.0	--
2874	5-18	7.4	9.0	BM											
		9.0	15.0	SG	3	6	14	21	24	30	41	57	91	100	--
		15.0	26.0	SG	1	2	3	28	58	87	96	99	100	--	--
		WEIGHTED MEAN(3)			1.7	3.4	6.9	25.5	46.0	66.9	76.6	84.2	96.8	100.0	--
2961	5-18	3.0	4.5	BM											
		4.5	7.0	SG	2	5	13	50	64	77	95	100	--	--	--
		7.0	14.0	SG	1	2	9	40	57	77	94	100	--	--	--
		14.0	18.0	SG	2	3	8	19	22	26	36	52	80	100	--
		18.0	19.7	BM											
		WEIGHTED MEAN(3)			1.5	2.9	9.4	35.6	47.9	61.9	77.1	85.8	94.1	100.0	--
3047	5-18	2.8	11.5	SG	5	11	17	55	70	81	92	99	100	--	--
		11.5	20.0	SG	3	7	17	40	48	66	89	98	100	--	--
		20.0	22.0	BM											
		WEIGHTED MEAN(3)			4.0	9.0	17.0	47.6	59.1	73.6	90.5	98.5	100.0	--	--
3108	5-18	3.0	4.8	BM											
		4.8	8.5	SG	1	1	5	20	22	26	33	45	77	100	--
		8.5	11.0	SG	1	2	22	59	74	82	90	94	98	100	--
		11.0	18.0	SG	2	4	9	31	47	74	96	100	--	--	--
		18.0	18.8	BM											
		WEIGHTED MEAN(3)			1.5	2.8	10.3	33.2	45.1	62.1	77.2	83.4	93.2	100.0	--
3168	5-18	1.4	2.5	BM											
		2.5	7.5	SG	4	8	19	37	40	50	68	89	95	100	--
		7.5	12.0	SG	1	2	4	23	36	58	86	99	100	--	--
		12.0	14.0	BM											
		WEIGHTED MEAN(3)			2.6	5.2	11.9	30.4	38.1	53.8	76.5	93.7	97.4	100.0	--
3256	5-18	2.5	18.5	SG	1	3	8	19	23	29	40	53	79	92	100
		18.5	23.5	BM											
		WEIGHTED MEAN(3)			1.0	3.0	8.0	19.0	23.0	29.0	40.0	53.0	79.0	92.0	100.0
WEIGHTED MEAN FOR REACH(4)					1.7	3.3	11.2	35.0	45.7	58.0	70.9	79.8	90.2	96.7	100.0

(1) CROSS-CHANNEL DISTANCE IN METERS FROM REFERENCE PIN ON LEFT BANK.
(2) QUALITATIVE DEFINITION OF BED MATERIAL
SG=SAND AND GRAVEL BM=BANK MATERIAL IS=ISLAND HB=HARD BOTTOM
(3) WEIGHTED MEAN: INDIVIDUAL VALUES GIVEN A WEIGHT PROPORTIONAL TO THE INCREMENT OF CHANNEL WIDTH THEY REPRESENT.
(4) WEIGHTED MEAN FOR REACH: MEANS AT EACH SECTION GIVEN A WEIGHT PROPORTIONAL TO THE INCREMENT OF CHANNEL LENGTH THEY REPRESENT.

TABLE 9.- SUMMARY OF STATISTICAL DATA, GRAIN SIZE DISTRIBUTION OF BED MATERIAL, EAST FORK RIVER, WYOMING, 1979

SECTION	GRAIN SIZE, IN MILLIMETERS, AT GIVEN PERCENT FINER									
	5	16	25	35	50	65	75	84	90	95
0043	0.28	0.38	0.45	0.55	0.84	1.30	1.79	2.39	2.99	3.97
0075	.29	.39	.46	.59	.96	1.54	2.16	3.00	4.00	5.80
0137	.23	.73	2.70	5.61	12.39	22.35	32.29	35.45	38.43	42.65
0220	.28	.43	.55	.81	1.45	2.70	4.68	13.74	23.35	34.46
0301	.24	.39	.49	.85	1.75	3.27	5.71	12.63	18.65	24.90
0421	.05	.18	.26	.35	.60	1.75	3.16	5.96	8.62	10.61
0516	.16	.28	.38	.49	1.08	1.69	2.20	2.75	3.32	4.17
0602	.20	.33	.41	.50	.86	1.59	2.37	3.40	4.41	5.71
0708	.16	.29	.37	.45	.82	2.02	3.41	6.12	10.17	24.50
0808	.19	.35	.46	.85	10.55	19.95	26.73	33.52	36.62	41.04
0898	.24	.81	3.65	8.86	14.30	19.23	23.04	28.23	32.99	37.77
0985	.14	.22	.29	.39	.95	3.45	8.27	16.14	20.79	28.80
1077	.23	.35	.43	.54	1.12	2.11	3.12	4.61	6.09	8.34
1155	.24	.44	.92	1.72	3.75	10.85	16.33	21.24	26.69	34.04
1241	.23	.38	.48	.79	1.54	2.63	3.75	5.78	8.43	13.68
1315	.13	.19	.24	.34	.94	3.10	5.06	7.68	9.68	12.75
1396	.19	.56	1.18	2.17	5.03	9.42	12.12	15.79	26.85	35.79
1481	.13	.29	.40	.57	1.52	3.25	5.55	8.74	10.61	13.61
1662	.13	.22	.28	.34	.43	.62	1.03	2.11	2.92	4.25
1695	.16	.28	.37	.47	.90	2.48	4.15	7.20	9.73	13.46
1766	.17	.34	.46	.87	1.70	2.85	4.13	7.19	8.92	10.69
1830	.14	.25	.31	.36	.45	1.27	4.22	8.57	11.55	16.42
1901	.27	.70	.50	.90	1.75	2.90	4.23	8.51	12.45	17.28
1996	.15	.28	.35	.42	.63	1.65	3.01	5.50	8.94	15.75
2082	.15	.26	.35	.44	1.92	4.99	8.17	10.50	13.05	16.74
2194	.15	.31	.38	.47	.95	1.87	3.60	9.90	16.33	22.40
2278	.14	.21	.25	.30	.39	.49	1.82	8.81	16.27	21.10
2356	.12	.27	.33	.39	.50	.95	1.61	3.35	8.01	11.28
2422	.18	.33	.43	.63	1.31	2.26	3.49	8.53	11.42	16.80
2510	.19	.34	.42	.52	.93	2.05	9.65	33.66	36.75	41.16
2608	.17	.28	.36	.45	.91	2.29	5.91	11.04	15.78	18.37
2690	.16	.30	.40	.58	1.46	2.72	4.20	6.62	9.14	12.73
2278	.14	.35	.64	1.82	4.19	8.15	9.13	11.86	14.09	17.13
2874	.18	.38	.49	.70	1.14	1.87	3.54	7.94	10.04	13.51
2961	.17	.32	.40	.49	1.11	2.78	3.61	6.89	10.76	16.62
3047	.07	.23	.31	.39	.58	1.31	2.10	2.91	3.89	5.24
3108	.17	.31	.41	.56	1.22	2.26	3.57	8.33	12.12	17.13
3168	.12	.30	.42	.76	1.69	2.75	3.79	5.07	6.46	9.70
3256	.18	.43	1.27	2.95	6.83	10.72	14.12	20.02	27.74	35.38
WEIGHTED MEAN FOR REACH	.16	.30	.39	.50	1.28	2.88	5.46	13.31	15.73	25.02

TABLE 10.- SUMMARY OF NEAR-SYNOPTIC OBSERVATIONS OF WATER-SURFACE ELEVATIONS(1), IN METERS, EAST FORK RIVER, WYOMING, 1979

	DATE															
	5-10		5-21		5-24		5-25		5-26		5-27		5-30		5-31	
SECTION	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.
0000	1700	5.32	1515	6.06	1230	6.42	1144	6.39	1222	6.41	1521	6.61	1416	6.14	1320	5.81
0043	--	--	--	--	1227	6.49	1143	6.45	1221	6.47	1515	6.68	1415	6.20	1320	5.86
0075	1650	5.36	--	--	1226	6.50	1142	6.45	1219	6.48	1527	6.69	1414	6.25	1319	5.88
0137	1646	5.50	1510	6.15	1225	6.58	1142	6.54	1218	6.57	1514	6.84	1413	6.25	1315	5.94
0220	1643	5.56	1505	6.26	1224	6.63	1141	6.60	1217	6.62	1458	6.87	1412	6.34	1314	6.03
0301	1641	5.58	1452	6.32	1223	6.70	1140	6.66	1216	6.70	1512	6.94	1412	6.39	1314	6.07
0421	1639	5.69	1443	6.40	1221	6.79	1140	6.76	1216	6.79	1511	7.01	1411	6.52	1313	6.21
0516	1636	5.76	1441	6.45	1220	6.86	1139	6.84	1215	6.86	1427	7.05	1410	6.61	1312	6.28
0602	--	--	1439	6.51	1219	6.91	1138	6.89	1215	6.91	1410	7.14	1409	6.64	1311	6.29
0708	1624	5.81	1437	6.57	1218	6.98	1138.	6.96	1214	6.98	1508	7.16	1408	6.69	1310	6.34
0808	1620	5.98	1436	6.63	1217	7.04	1137	7.00	1214	7.02	1507	7.26	1407	6.71	1308	6.42
0898	--	--	1434	6.73	1216	7.10	1137	7.08	1213	7.10	1506	7.32	1411	6.87	1307	6.60
0985	1555	6.21	--	--	1215	7.24	1136	7.22	1213	7.25	1505	7.49	1406	7.01	1306	6.69
1077	1551	6.23	--	--	1214	7.29	1136	7.26	1212	7.29	1313	7.54	1405	7.02	1306	6.71
1155	1548	6.26	--	--	1213	7.36	--	--	1212	7.36	1504	7.61	1404	7.09	1305	6.76
1241	1544	6.28	--	--	1212	7.38	1134	7.36	1211	7.38	1237	7.63	1403	7.11	1305	6.77
1315	--	--	1429	7.04	1211	7.40	1133	7.38	1210	7.39	1501	7.64	1402	7.13	1304	6.84
1396	1516	6.48	1404	7.13	1210	7.45	1133	7.43	1210	7.45	1500	7.67	1401	7.25	1304	6.97
1481	1512	6.58	1352	7.23	1209	7.50	1132	7.50	1209	7.52	1459	7.68	1400	7.34	1303	7.06
1662	1507	6.68	1332	7.41	1208	7.66	1132	7.64	1208	7.66	1458	7.79	1359	7.49	1303	7.18
1695	1448	6.68	1331	7.42	1207	7.68	1131	7.67	1208	7.68	1457	7.81	1359	7.52	1302	7.21
1766	1442	6.72	1330	7.51	1206	7.77	1131	7.75	1207	7.76	1456	7.89	1358	7.61	1301	7.26
1830	1440	6.74	1328	7.51	1206	7.76	1130	7.75	1206	7.76	1456	7.87	1357	7.60	1300	7.27
1901	1437	6.80	1327	7.55	1205	7.79	1130	7.78	1206	7.79	1455	7.91	1356	7.62	1259	7.30
1996	1432	6.84	1325	7.61	1203	7.86	1129	7.85	1206	7.87	1453	7.98	1355	7.68	1259	7.35
2082	1428	6.89	1323	7.70	1202	7.95	1128	7.95	1205	7.97	1452	8.05	1355	7.78	1258	7.46
2194	1423	6.99	1320	7.74	1201	7.97	1127	7.96	1205	7.97	1451	8.07	1354	7.83	1258	7.54
2278	1348	7.04	1318	7.85	1200	8.11	1126	8.10	1204	8.11	1450	8.22	1353	7.92	1257	7.61
2356	1340	7.07	1317	7.89	1159	8.15	1125	8.15	1204	8.16	1450	8.25	1352	7.97	1257	7.64
2422	1335	7.11	1315	7.90	1158	8.17	1124	8.16	1203	8.18	1449	8.27	1352	8.01	1256	7.68
2510	1330	7.15	1312	7.96	1158	8.26	1123	8.18	1203	8.27	1448	8.37	1351	8.04	1255	7.70
2608	--	--	1307	7.99	1156	8.30	1123	8.26	1202	8.28	1447	8.41	1350	8.07	1255	7.72
2690	1313	7.25	1255	8.07	1155	8.37	1122	8.35	1201	8.36	1446	8.47	1349	8.13	1254	7.76
2778	1305	7.29	1243	8.12	1154	8.41	1121	8.40	1201	8.42	1445	8.53	1348	8.17	1253	7.83
2874	1300	7.45	1233	8.16	1152	8.46	1120	8.44	1200	8.45	1438	8.56	1347	8.26	1252	7.95
2961	--	--	1220	8.19	1152	8.51	1118	8.49	1200	8.51	1437	8.63	1347	8.30	1251	7.99
3047	1235	7.48	1216	8.25	1151	8.56	1117	8.54	1159	8.57	1436	8.69	1346	8.35	1251	8.02
3108	1230	7.49	1214	8.27	1150	8.56	1117	8.55	1159	8.56	1435	8.67	1345	8.35	1250	8.03
3168	1225	7.50	1209	8.27	1149	8.57	1116	8.54	1158	8.56	1434	8.73	1344	8.35	1250	8.03
3256	--	--	--	--	1147	8.66	1115	8.65	1158	8.67	--	--	1343	8.44	1249	8.15
3295	--	--	1158	8.39	1147	8.71	1115	8.70	1158	8.73	1430	8.83	1340	8.46	1246	8.20

TABLE 10.- SUMMARY OF NEAR-SYNOPTIC OBSERVATIONS OF WATER-SURFACE ELEVATIONS(1), IN METERS, EAST FORK RIVER, WYOMING, 1979--CONTINUED

	DATE															
	6- 1		6- 5		6-12		6-13		6-28		7-11		7-21		10- 7(2)	
SECTION	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.	TIME	ELEV.
0000	1401	5.61	1340	6.07	1250	5.83	1421	6.07	1400	5.42	1814	5.25	1630	5.24	1300	5.19
0043	1400	5.65	1335	6.12	1246	5.88	1420	6.12	1339	5.49	1755	5.34	1600	5.33	1235	5.26
0075	1357	5.66	1331	6.17	1245	5.92	1419	6.18	1352	5.51	1750	5.35	1557	5.34	1219	5.28
0137	1356	5.74	1330	6.21	1244	5.97	1418	6.22	1327	5.57	1740	5.43	1550	5.42	1201	5.37
0220	1355	5.80	1329	6.27	1242	6.06	1417	6.29	1327	5.65	1735	5.48	1542	5.47	1142	5.40
0301	1352	5.83	1328	6.34	1240	6.11	1416	6.35	1315	5.70	1730	5.52	1535	5.51	1122	5.43
0421	1350	6.04	1326	6.47	1238	6.24	1415	6.47	1308	5.80	1720	5.62	1528	5.62	1101	5.55
0516	1349	6.08	1325	6.52	1237	6.28	1414	6.52	1309	5.86	1715	5.70	1521	5.69	1041	5.62
0602	1347	6.09	1324	6.56	1236	6.32	1413	6.58	1303	5.88	1708	5.72	1515	5.70	1700	5.65
0708	1345	6.12	1323	6.65	1235	6.38	1412	6.64	1253	5.94	1700	5.76	1506	5.75	1640	5.68
0808	1342	6.23	1322	6.71	1234	6.45	1411	6.71	1247	6.05	1650	5.92	1502	5.91	1622	5.85
0898	1340	6.41	1321	6.80	1234	6.58	1410	6.78	1250	6.25	1640	6.13	1432	6.13	1602	6.08
0985	1339	6.46	1237	6.92	1232	6.67	1409	6.90	1242	6.30	1637	6.16	1424	6.15	1545	6.10
1077	1336	6.48	1230	6.92	1230	6.68	1408	6.92	1239	6.32	1628	6.17	1416	6.16	1500	6.11
1155	1335	6.52	1235	7.00	1230	6.76	1407	7.01	1234	6.36	1620	6.20	1410	6.19	1430	6.14
1241	1332	6.55	1233	7.09	1229	6.82	1406	7.08	1230	6.39	1612	6.22	1405	6.21	1415	6.16
1315	1330	6.61	1232	7.10	1226	7.08	1404	7.11	1225	6.43	1610	6.25	1356	6.23	1400	6.18
1396	1328	6.75	1231	7.17	1225	6.93	1403	7.16	1152	6.55	1602	6.43	1350	6.42	1345	6.37
1481	1326	6.84	1230	7.27	1224	7.06	1402	7.27	1145	6.67	1558	6.50	1342	6.49	1330	6.43
1662	1322	6.96	1229	7.45	1222	7.20	1400	7.44	1139	6.76	1540	6.61	1335	6.58	1300	6.86
1695	1321	6.96	1229	7.46	1221	7.22	1359	7.46	1130	6.77	1537	6.61	1328	6.61	1240	6.86
1766	1320	7.02	1228	7.54	1221	7.28	1358	7.54	1128	6.82	1531	6.64	1323	6.63	1217	6.86
1830	1318	7.03	1227	7.54	1219	7.29	1357	7.54	1121	6.83	1527	6.66	1315	6.64	1156	6.86
1901	1316	7.08	1226	7.56	1218	7.32	1356	7.57	1118	6.91	1515	6.76	1310	6.74	1140	6.86
1996	1315	7.10	1225	7.66	1217	7.38	1354	7.66	1111	6.93	1507	6.77	1259	6.75	1118	6.86
2082	1313	7.21	1224	7.74	1216	7.47	1353	7.74	1104	6.99	1500	6.80	1229	6.78	1059	6.86
2194	1311	7.30	1223	7.78	1214	7.53	1352	7.77	1100	7.08	1450	6.93	1220	6.91	1040	6.90
2278	1310	7.36	1222	7.87	1213	7.62	1351	7.89	1048	7.14	1441	6.96	1212	6.95	1026	6.90
2356	1309	7.38	1221	7.93	1212	7.67	1350	7.94	1055	7.18	1434	6.99	1205	6.97	1010	6.92
2422	--	--	1220	7.96	1211	7.69	1349	7.95	1047	7.20	1425	7.03	1158	7.02	0955	6.97
2510	1305	7.45	1219	8.00	1209	7.73	1348	8.00	1041	7.25	1410	7.07	1150	7.05	1545	6.99
2608	1302	7.47	1217	8.00	1208	7.76	1346	8.02	1036	7.31	1402	7.14	1141	7.12	1515	7.04
2690	1300	7.51	1216	8.10	1208	7.83	1345	8.11	1026	7.36	1355	7.16	1133	7.14	1450	7.07
2778	1259	7.60	1215	8.14	1206	7.89	1344	8.15	1023	7.41	1340	7.23	1126	7.20	1430	7.09
2874	1257	7.73	1213	8.21	1204	7.98	1343	8.21	1016	7.54	1334	7.40	1120	7.39	1415	7.32
2961	1256	7.76	1211	8.24	1203	8.00	1342	8.24	1009	7.56	1317	7.41	1113	7.40	1355	7.33
3047	1255	7.78	1210	8.29	1201	8.06	1341	8.32	0958	7.58	1311	7.42	1108	7.41	1340	7.33
3108	1254	7.79	1209	8.32	1200	8.07	1340	8.34	1013	7.59	1306	7.43	1100	7.42	1325	7.35
3168	1253	7.80	1208	8.36	1200	8.09	1338	8.37	1004	7.60	1251	7.44	1055	7.43	1259	7.35
3256	1252	7.91	1206	8.44	1159	8.16	1335	8.45	0958	7.66	1247	7.52	1045	7.51	1249	7.46
3295	1251	7.96	1204	8.47	1155	8.20	1333	8.48	1000	7.73	1244	7.59	1039	7.57	1130	7.51

(1) ADD 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.
(2) SECTIONS 2422 THRU 0602 MEASURED ON 10-08 AND SECTIONS 0516 THRU 0000 MEASURED ON 10-09.

TABLE 11.- WATER-SURFACE SLOPE OVER 3295-METER REACH ENDING AT SECTION 0000, EAST FORK RIVER, WYOMING, 1979

DATE	SECTION 3295 WATER LEVEL(1) (M)	SECTION 3295 TIME	SECTION 0000 WATER LEVEL(1) (M)	SECTION 0000 TIME	DISCHARGE (M^3/S)	NUMBER OF DATA POINTS	CORRELATION COEFFICIENT	SECTION 0000 INTERCEPT(1) (M)	SECTION 0000 STANDARD ERROR (M)	SLOPE(2) (M/M)
5-10	----	1215	5.32	1700	1.77	33	0.990	5.42	0.02	0.00070
5-21	8.39	1150	6.06	1514	14.1	34	.993	6.11	.02	.00072
5-24	8.71	1147	6.42	1230	25.2	41	.997	6.50	.01	.00068
5-25	8.70	1115	6.39	1144	24.1	40	.997	6.47	.01	.00069
5-26	8.73	1158	6.41	1222	24.9	41	.997	6.49	.01	.00069
5-27	8.83	1430	6.61	1521	32.5	41	.993	6.74	.02	.00064
5-30	8.46	1340	6.14	1416	16.3	41	.993	6.23	.02	.00071
5-31	8.20	1246	5.81	1320	8.44	41	.992	5.90	.02	.00071
6- 1	7.96	1251	5.61	1401	5.04	41	.993	5.69	.02	.00070
6- 5	8.47	1204	6.07	1340	14.3	41	.995	6.15	.02	.00073
6-12	8.20	1155	5.83	1250	8.83	41	.991	5.92	.02	.00072
6-13	8.48	1333	6.07	1421	14.3	41	.996	6.15	.02	.00073
6-28	7.73	1000	5.42	1400	2.69	41	.993	5.53	.02	.00069
7-11	7.59	1244	5.25	1814	1.25	41	.991	5.37	.02	.00069
7-21	7.57	1039	5.24	1630	1.19	41	.991	5.36	.02	.00069
10- 7	7.51	1130	5.19	1300	.88	33	.991	5.29	.02	.00068

(1) ADD 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.
(2) STANDARD ERROR FOR ALL SURVEYS IS 0.00001 M/M.

TABLE 12.- SUMMARY DATA OF RIVER HYDRAULICS AND BEDLOAD TRANSPORT AT SECTION 0000, EAST FORK RIVER, WYOMING, 1979

DATE	TIME	WATER LEVEL(1) (M)	TOTAL DISCHARGE(2) (M^3/S)	EFFECTIVE DISCHARGE(3) (M^3/S)	MEAN DEPTH(4) (M)	MEAN VELOCITY(5) (M/S)	UNIT BEDLOAD-TRANSPORT RATE(6) (KG/S-M)	BEDLOAD SIZE(7) (MM)
5-20	1910	5.955	11.6	10.9	0.85	0.87	0.08354	0.77
5-21	1635	6.040	13.6	12.6	.94	.92	.11472	.94
5-23	1100	6.355	23.0	20.9	1.31	1.09	.11143	1.38
5-24	1235	6.420	25.2	22.8	1.38	1.13	.07901	1.30
5-25	0940	6.385	24.0	21.8	1.34	1.11	.07713	1.49
5-26	0935	6.395	24.2	22.0	1.35	1.11	.05174	1.47
5-27	1235	6.595	31.8	28.5	1.60	1.22	.07704	1.71
5-28	1000	6.525	29.1	26.2	1.51	1.18	.04120	1.11
5-30	1150	6.225	18.7	17.2	1.14	1.02	.02154	1.00
5-31	1105	5.835	8.91	8.48	.72	.80	.00593	.85
6- 1	0915	5.670	5.95	5.77	.56	.71	.00040	.50
6- 2	1400	5.550	4.10	4.04	.44	.62	.00180	.55
6- 3	1305	5.650	5.52	5.37	.53	.69	.00312	.52
6- 4	1400	5.840	8.85	8.42	.72	.80	.00316	.47
6- 5	1155	6.055	13.9	13.0	.95	.93	.00993	.47
6- 6	0945	6.130	16.0	14.8	1.04	.97	.01366	.50
6- 7	1050	6.055	13.9	13.0	.95	.93	.02855	.50
6- 8	1035	5.745	7.24	6.95	.63	.75	.01449	1.03
6- 9	1240	5.530	3.92	3.87	.43	.62	.00376	1.18
6-10	0950	5.515	3.75	3.71	.42	.61	.00269	.80
6-11	1150	5.685	6.20	5.99	.57	.71	.00924	.42
6-12	1020	5.825	8.70	8.28	.71	.80	.08019	.44
6-13	1005	6.015	13.0	12.2	.91	.91	.02152	.67
6-14	1055	6.155	16.7	15.5	1.07	.99	.04177	1.22
6-15	1430	6.095	15.1	14.0	1.00	.95	.03966	1.00
6-16	1325	5.825	8.67	8.26	.71	.80	.01928	.79
6-17	1245	5.735	6.97	6.71	.62	.74	.01335	.94
6-18	0930	5.680	6.10	5.90	.57	.71	.01160	.51
6-19	1130	5.540	3.98	3.93	.43	.62	.00633	.72
6-20	1040	5.435	2.84	2.84	.35	.55	.00448	.46
6-21	1205	5.380	2.29	2.29	.31	.52	.00331	2.28
6-22	1115	5.420	2.61	2.61	.33	.54	.00041	.61

(1) ADD 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.
(2) TOTAL DISCHARGE OVER ENTIRE WIDTH OF CHANNEL.
(3) EFFECTIVE DISHARGE OVER 14.63-METER WIDTH OF BEDLOAD TRAP; INCLUDES ALL FLOW OVER THE ACTIVE WIDTH OF THE STREAMBED.
(4) MEAN DEPTH OF WATER OVER EFFECTIVE WIDTH.
(5) MEAN VELOCITY OF EFFECTIVE DISCHARGE.
(6) UNIT TRANSPORT RATE OF SOLIDS IN DRY WEIGHT PER SECOND, OVER EFFECTIVE WIDTH OF CHANNEL. TRANSPORT RATE DETERMINED BY USING THE BEDLOAD TRAP EXCEPT FOR PERIODS OF JUNE 2-3, 9-12, AND 18-22 WHEN THE HELLEY-SMITH BEDLOAD SAMPLER WAS USED.
(7) MEDIAN DIAMETER OF GRAINS; COMPLETE GRAIN-SIZE DISTRIBUTION GIVEN IN TABLE 13.

TABLE 13.- GRAIN-SIZE DISTRIBUTION OF BEDLOAD AT SECTION 0000, EAST FORK RIVER, WYOMING, 1979

DATE	UNIT BEDLOAD-TRANSPORT RATE(1) (KG/S-M)	PERCENT BY WEIGHT FINER THAN SIEVE SIZE (MILLIMETERS) INDICATED									
		.062	.125	.250	.500	1.00	2.00	4.00	8.00	16.0	32.0	64.0
5-20	0.08354	0.2	1	2	37	58	81	95	99	100	--	--
5-21	.11472	.1	.1	.5	22	53	77	94	99	100	--	--
5-23	.11143	.7	1	3.6	25	40	61	86	97	99	100	--
5-24	.07901	.2	.2	1	19	40	66	88	97	100	--	--
5-25	.07713	.1	.1	1.5	19	37	60	85	96	100	--	--
5-26	.05174	.2	.5	2	21	37	60	84	96	100	--	--
5-27	.07704	.6	.7	2.1	19	36	54	76	90	99	100	--
5-28	.04120	.3	.3	2.6	24	47	67	86	96	99	100	--
5-30	.02154	.6	1.4	4.4	31	50	70	91	99	100	--	--
5-31	.00593	.4	1	9	40	53	74	95	100	--	--	--
6- 1	.00040	1	3	23	50	67	81	94	99	100	--	--
6- 2	.00180	1	1	4.8	47	69	78	87	95	100	--	--
6- 3	.00312	1.4	2.4	11	49	69	77	85	91	92	100	--
6- 4	.00316	1	3	23	53	64	78	93	99	100	--	--
6- 5	.00993	1	3	15	54	64	78	94	100	--	--	--
6- 6	.01366	1	2	11	50	67	79	93	99	100	--	--
6- 7	.02855	.2	1	4	51	60	78	94	99	100	--	--
6- 8	.01449	.3	1	2	28	49	74	94	100	--	--	--
6- 9	.00376	.3	.3	2.5	28	43	71	95	100	--	--	--
6-10	.00269	.4	.7	2.2	28	61	88	99	100	--	--	--
6-11	.00924	2	3	19	61	79	92	99	100	--	--	--
6-12	.08019	1	2.6	17	59	75	90	98	99	99	100	--
6-13	.02152	1	2	15	44	58	75	92	99	100	--	--
6-14	.04177	.4	1	4	25	44	65	86	98	100	--	--
6-15	.03966	1	1	3	34	50	72	93	99	100	--	--
6-16	.01928	1	1	5	37	57	78	95	99	100	--	--
6-17	.01335	.3	1	4	39	51	72	93	100	--	--	--
6-18	.01160	.8	1.7	8.6	48	82	95	99	100	--	--	--
6-19	.00633	.1	.1	2.9	38	61	82	97	100	--	--	--
6-20	.00448	.3	1	4.6	60	80	89	95	98	100	--	--
6-21	.00331	.2	.6	6.6	29	36	46	66	93	100	--	--
6-22	.00041	1	2.4	9.7	44	64	81	95	100	--	--	--

(1) UNIT TRANSPORT RATE OF SOLIDS IN DRY WEIGHT PER SECOND OVER 14.6 METER WIDTH OF BEDLOAD TRAP.

TABLE 14.- SUMMARY OF STATISTICAL DATA, GRAIN SIZE DISTRIBUTION OF BEDLOAD AT SECTION 0000, EAST FORK RIVER, WYOMING 1979

	GRAIN SIZE, IN MILLIMETERS, AT GIVEN PERCENT FINER									
DATE	5	16	25	35	50	65	75	84	90	95
5-20	0.29	0.38	0.44	0.49	0.77	1.21	1.62	2.23	2.88	4.00
5-21	.36	.46	.55	.69	.94	1.38	1.86	2.46	3.11	4.21
5-23	.28	.41	.51	.81	1.38	2.18	2.82	3.77	4.84	6.66
5-24	.35	.48	.63	.86	1.30	1.96	2.57	3.47	4.51	6.38
5-25	.33	.47	.65	.94	1.49	2.26	2.93	3.93	5.05	6.98
5-26	.31	.45	.60	.92	1.47	2.25	2.97	4.05	5.23	7.27
5-27	.32	.46	.65	.96	1.71	2.78	3.31	5.82	8.12	10.28
5-28	.30	.42	.52	.71	1.11	1.89	2.58	3.61	4.80	6.87
5-30	.26	.37	.45	.58	1.00	1.68	2.28	2.97	3.74	4.60
5-31	.20	.31	.38	.46	.85	1.46	2.04	2.56	3.11	4.00
6- 1	.14	.21	.27	.35	.50	.92	1.45	2.27	3.02	4.34
6- 2	.25	.33	.39	.44	.55	.88	1.60	3.13	4.88	7.89
6- 3	.17	.29	.35	.41	.52	.86	1.68	3.58	6.92	17.69
6- 4	.14	.21	.26	.34	.47	1.04	1.70	2.50	3.41	4.59
6- 5	.15	.26	.31	.37	.47	1.04	1.70	2.45	3.14	4.17
6- 6	.18	.28	.34	.40	.50	.92	1.56	2.44	3.27	4.59
6- 7	.26	.34	.38	.43	.50	1.19	1.76	2.45	3.14	4.34
6- 8	.30	.41	.48	.64	1.03	1.53	2. 5	2.62	3.25	4.17
6- 9	.29	.41	.48	.69	1.18	1.71	2.16	2.63	3.13	3.90
6-10	.30	.41	.48	.59	.80	1.09	1.37	1.77	2.17	2.75
6-11	.15	.23	.28	.34	.42	.57	.84	1.26	1.78	2.37
6-12	.16	.24	.29	.35	.44	.64	1.01	1.49	2.05	2.81
6-13	.17	.26	.33	.42	.67	1.31	2.00	2.72	3.56	4.79
6-14	.27	.41	.50	.73	1.22	2.00	2.67	3.69	4.62	5.98
6-15	.28	.38	.44	.52	1.00	1.58	2.15	2.76	3.44	4.59
6-16	.25	.35	.42	.49	.79	1.27	1.79	2.40	3.00	4.00
6-17	.26	.36	.42	.48	.94	1.56	2.15	2.76	3.44	4.31
6-18	.20	.30	.36	.42	.51	.68	.83	1.07	1.41	2.01
6-19	.28	.37	.43	.48	.72	1.12	1.54	2.14	2.66	3.52
6-20	.25	.32	.36	.40	.46	.58	.81	1.35	2.30	4.31
6-21	.23	.36	.45	.92	2.28	3.86	4.78	5.95	7.20	8.74
6-22	.18	.30	.36	.43	.61	1.03	1.51	2.21	2.84	3.93

TABLE 15.- SUMMARY OF SUSPENDED-SEDIMENT DATA AT SECTION 0000, EAST FORK RIVER, WYOMING, 1979

DATE	TIME	WATER LEVEL(1) (M)	TOTAL DISCHARGE (M^3/S)	WATER TEMPERATURE (^oC)	CONCENTRATION (MG/L)	PERCENT FINER THAN 0.062MM
5-21	1815	6.025	13.21	9.0	95	42
5-23	1100	6.365	23.28	5.2	92	44
5-24	1520	6.410	24.85	8.9	62	42
5-25	1120	6.385	23.97	6.5	41	47
5-26	1210	6.400	24.50	8.5	38	39
5-27	1650	6.585	31.52	11.0	36	42
5-28	1315	6.525	29.14	6.5	27	37
5-30	1350	6.145	16.41	5.0	39	59
6- 2	1330	5.545	4.14	11.0	7	81
6- 3	1240	5.640	5.49	11.5	17	67
6- 4	1300	5.835	8.93	10.5	39	49
6- 5	1400	6.065	14.24	10.2	63	49
6- 6	1100	6.150	16.55	8.2	60	47
6- 7	1145	6.045	13.72	5.5	35	43
6- 8	1130	5.735	7.05	5.0	17	46
6- 9	1255	5.525	3.89	5.0	9	76
6-10	0940	5.515	3.76	6.0	8	59
6-11	1140	5.685	6.20	10.0	25	60
6-12	1110	5.925	8.74	9.0	32	50
6-13	1120	6.035	13.47	10.0	63	49
6-14	1215	6.175	17.26	9.0	93	33
6-15	1545	6.075	14.50	10.5	32	41
6-16	1445	5.815	8.54	12.0	15	50
6-17	1430	5.720	6.79	11.0	16	59
6-18	0925	5.675	6.04	9.0	16	54
6-19	1150	5.530	3.95	5.5	9	76
6-20	1050	5.435	2.84	9.0	6	36

(1) ADD 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.

TABLE 16.- SUMMARY DATA OF RIVER HYDRAULICS AND BEDLOAD TRANSPORT AT SECTION 3256, EAST FORK RIVER, WYOMING, 1979

DATE	TIME	WATER LEVEL(1) (M)	EFFECTIVE DISCHARGE(2) (M^3/S)	MEAN WIDTH(3) (M)	MEAN DEPTH(4) (M)	MEAN VELOCITY(5) (M/S)	UNIT BEDLOAD-TRANSPORT RATE(6) (KG/S-M)	BEDLOAD SIZE(7) (MM)
5-23	1200	8.630	18.6	24.3	0.89	0.86	0.03632	0.27
5-24	1055	8.700	20.2	24.6	.94	.88	.05282	.50
5-25	1035	8.695	20.1	24.6	.93	.87	.11985	.48
5-26	1105	8.710	20.5	24.7	.94	.88	.08742	.41
5-27	1225	8.840	23.6	25.2	1.02	.91	.10850	.61
5-28	1210	8.790	22.4	25.0	.99	.90	.17222	.46
5-30	1155	8.550	16.8	23.9	.84	.83	.09268	.48
5-31	1155	8.200	9.68	21.8	.61	.72	.09540	.81
6- 1	1100	8.000	6.21	20.3	.47	.65	.04532	.52
6- 2	1125	7.900	4.54	19.3	.40	.60	.01551	.48
6- 3	1030	7.980	5.90	20.2	.46	.64	.01042	.45
6- 4	1540	8.190	9.35	21.7	.60	.72	.00976	.42
6- 5	1115	8.450	14.6	23.4	.78	.81	.01891	.49
6- 6	1135	8.565	17.2	24.0	.85	.84	.04230	.51
6- 7	1115	8.430	14.2	23.2	.76	.80	.08192	.62
6- 8	1050	8.120	8.08	21.2	.55	.69	.09704	.64
6- 9	1120	7.885	4.49	19.3	.39	.59	.06307	.84
6-10	1145	7.810	3.43	18.5	.34	.55	.01351	.84
6-11	1100	8.030	6.70	20.6	.49	.66	.00743	1.19
6-12	1050	8.195	9.58	21.8	.61	.72	.03021	.56
6-13	1040	8.450	14.6	23.4	.78	.81	.02911	.74
6-14	1225	8.580	17.3	24.0	.86	.84	.02965	.60
6-15	1110	8.505	15.8	23.7	.81	.82	.02733	.43
6-16	1125	8.205	9.77	21.9	.61	.73	.14736	.70
6-17	1045	8.105	7.99	21.2	.55	.69	.08773	.54
6-18	1045	8.025	6.62	20.5	.49	.66	.02165	.86
6-19	1055	7.850	3.97	18.9	.37	.58	.01340	.78
6-20	1155	7.750	2.67	17.7	.29	.52	.03328	1.11
6-21	1120	7.700	2.08	17.0	.25	.49	.00294	.49
6-22	1010	7.760	2.79	17.9	.30	.53	.00099	2.69

(1) VALUES OF WATER LEVEL ARE FOR SECTION 3295. ADD 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.
(2) EFFECTIVE DISCHARGE AT SECTION; DOES NOT INCLUDE OVERBANK FLOW.
(3) EFFECTIVE WIDTH OF STREAM CHANNEL; DOES NOT INCLUDE WIDTH OF OVERBANK FLOW.
(4) MEAN DEPTH OF WATER OVER EFFECTIVE WIDTH.
(5) MEAN VELOCITY OF EFFECTIVE DISCHARGE.
(6) UNIT TRANSPORT RATE OF SOLIDS IN DRY WEIGHT PER SECOND, OVER EFFECTIVE WIDTH OF CHANNEL.
(7) MEDIAN DIAMETER OF GRAINS; COMPLETE GRAIN-SIZE DISTRIBUTION GIVEN IN TABLE 17.

TABLE 17.- GRAIN-SIZE DISTRIBUTION OF BEDLOAD AT SECTION 3256, EAST FORK RIVER, WYOMING, 1979

DATE	UNIT BEDLOAD-TRANSPORT RATE(1) (KG/S-M)	PERCENT BY WEIGHT FINER THAN SIEVE SIZE (MILLIMETERS) INDICATED									
		.062	.125	.250	.500	1.00	2.00	4.00	8.00	16.0	32.0	64.0
5-23	0.03632	2	3	45	80	83	87	93	98	100	--	--
5-24	.05282	1	2	11	50	67	80	92	99	100	--	--
5-25	.11985	.4	1	5	55	71	84	94	98	99	100	--
5-26	.08742	1.1	2	8.6	72	85	92	96	99	99	100	--
5-27	.10850	.7	.7	4.4	45	62	77	91	97	99	100	--
5-28	.17222	1	2.6	8.5	57	78	88	95	99	100	--	--
5-30	.09268	1	2	3.5	55	73	81	90	97	99	100	--
5-31	.09540	.7	1.5	2.5	37	56	76	92	99	100	--	--
6- 1	.04532	.7	.7	1.6	49	72	87	97	99	100	--	--
6- 2	.01551	.5	.7	7.1	55	79	91	97	99	100	--	--
6- 3	.01042	.5	1	15	57	74	85	94	98	100	--	--
6- 4	.00976	1	1.9	10	68	87	94	97	99	100	--	--
6- 5	.01891	1	1.4	7.3	51	66	77	86	92	96	96	100
6- 6	.04230	1	1.4	4.7	49	72	87	95	97	100	--	--
6- 7	.08192	.6	.6	2.4	42	67	84	95	98	99	99	100
6- 8	.09704	.8	1.6	3.3	39	69	88	96	99	99	100	--
6- 9	.06307	.2	.2	.7	35	55	77	96	100	--	--	--
6-10	.01351	.4	.7	3	27	58	77	94	99	100	--	--
6-11	.00743	.6	1.4	6.5	33	47	58	74	89	100	--	--
6-12	.03021	.2	.7	5.8	47	65	79	90	96	100	--	--
6-13	.02911	.4	.6	4	33	63	82	93	97	99	100	--
6-14	.02865	.6	1.4	8.8	44	66	82	93	97	99	100	--
6-15	.02733	1.3	2.3	11	63	77	84	90	95	99	100	--
6-16	.14736	1	1	2	38	63	82	96	99	99	100	--
6-17	.08773	.3	.3	1.5	47	71	89	97	99	99	100	--
6-18	.02165	.2	.4	1.5	25	57	80	94	99	100	--	--
6-19	.01340	.2	.2	1.5	31	61	76	89	96	100	--	--
6-20	.03328	.2	.5	.7	20	46	69	81	93	100	--	--
6-21	.00294	.3	.8	4	52	79	92	99	100	--	--	--
6-22	.00099	1	1.6	9.2	29	35	43	59	84	100	--	--

(1) UNIT TRANSPORT RATE OF SOLIDS IN DRY WEIGHT PER SECOND OVER THE EFFECTIVE WIDTH OF CHANNEL.

TABLE 18.- SUMMARY OF STATISTICAL DATA, GRAIN SIZE DISTRIBUTION OF BEDLOAD AT SECTION 3256, EAST FORK RIVER, WYOMING 1979

DATE	GRAIN SIZE, IN MILLIMETERS, AT GIVEN PERCENT FINER									
	5	16	25	35	50	65	75	84	9	95
5-23	0.14	0.18	0.20	0.23	0.27	0.36	0.64	1.20	2.72	4.91
5-24	.18	.28	.34	.40	.50	.92	1.50	2.43	3.44	4.74
5-25	.25	.32	.37	.41	.48	.76	1.21	2.01	2.85	4.53
5-26	.19	.28	.32	.35	.41	.46	.57	.93	1.52	3.13
5-27	.26	.34	.39	.45	.61	1.14	1.44	2.76	4.44	5.81
5-28	.18	.30	.34	.39	.46	.54	.91	1.51	2.33	3.75
5-30	.27	.34	.38	.42	.48	.73	1.21	2.51	4.13	5.12
5-31	.29	.38	.43	.49	.61	1.34	1.73	2.62	4.55	4.54
6- 1	.30	.37	.41	.45	.52	.81	1.14	1.64	2.30	3.24
6- 2	.22	.31	.35	.40	.48	.66	.98	1.23	1.80	2.87
6- 3	.18	.26	.31	.36	.45	.57	1.05	1.66	2.77	4.51
6- 4	.18	.28	.32	.36	.42	.49	.63	.88	1.33	2.69
6- 5	.21	.31	.36	.41	.49	.96	1.75	3.45	6.75	13.58
6- 6	.25	.33	.38	.43	.51	.80	1.14	1.75	2.57	4.44
6- 7	.28	.37	.42	.47	.62	.94	1.45	2.02	2.76	4.28
6- 8	.27	.36	.42	.48	.64	.90	1.20	1.69	2.23	3.45
6- 9	.33	.41	.45	.51	.84	1.33	1.83	2.39	2.30	3.74
6-10	.28	.41	.49	.61	.84	1.25	1.62	2.45	3.1	4.23
6-11	.22	.35	.43	.56	1.19	2.94	4.04	5.63	8.14	9.44
6-12	.24	.33	.38	.43	.56	1.00	1.64	2.70	4.15	6.52
6-13	.26	.37	.44	.53	.74	1.07	1.51	2.22	4.15	5.24
6-14	.20	.31	.37	.44	.60	.95	1.42	2.23	3.14	5.64
6-15	.17	.28	.32	.37	.43	.55	.88	1.94	3.74	7.55
6-16	.29	.38	.43	.49	.70	1.05	1.48	2.14	2.75	3.82
6-17	.30	.37	.41	.45	.54	.83	1.13	1.59	2.14	3.15
6-18	.32	.43	.50	.63	.86	1.24	1.69	2.34	3.13	4.22
6-19	.31	.41	.46	.55	.78	1.19	1.65	3.01	4.35	5.89
6-20	.35	.47	.58	.76	1.11	1.73	2.70	4.51	6.17	8.48
6-21	.26	.33	.38	.42	.49	.69	.98	1.25	1.74	2.40
6-22	.19	.34	.45	.95	2.69	4.63	6.32	8.04	9.83	7.97

TABLE 19.- SUMMARY OF SUSPENDED-SEDIMENT DATA AT SECTION 3256, EAST FORK RIVER, WYOMING, 1979

DATE	TIME	WATER LEVEL(1) (M)	EFFECTIVE DISCHARGE(2) (M^3/S)	WATER TEMPERATURE (^oC)	CONCENTRATION (MG/L)	PERCENT FINER THAN 0.062MM
5-23	1220	8.625	18.51	9.5	48	37
5-24	1130	8.700	20.25	7.0	92	34
5-25	1100	8.695	20.13	8.0	78	22
5-26	1100	8.710	20.48	8.5	68	27
5-27	1350	8.825	23.26	9.3	40	52
5-28	1300	8.785	22.28	6.5	64	17
5-30	1155	8.540	16.60	4.0	51	41
6- 1	1155	7.970	5.74	7.0	31	24
6- 2	1050	7.890	4.54	9.0	18	30
6- 3	1050	7.970	5.74	8.0	15	62
6- 4	1515	8.185	9.40	10.9	18	67
6- 5	1215	8.455	14.75	8.6	37	62
6- 6	1110	8.560	17.04	7.2	72	45
6- 7	1015	8.455	14.75	5.5	29	41
6- 8	1000	8.125	8.32	5.3	35	19
6- 9	1035	7.890	4.54	4.5	19	38
6-10	1130	7.805	3.36	7.0	6	64
6-11	1120	8.030	6.70	9.0	17	67
6-13	1020	8.445	14.54	10.0	43	64
6-14	1310	8.575	17.37	11.0	34	57
6-15	1145	8.500	15.72	9.5	23	54
6-16	1200	8.200	9.68	10.5	15	48
6-17	1115	8.100	7.88	10.5	24	26
6-18	1040	8.020	6.54	9.0	13	72
6-19	1115	7.845	3.90	7.0	12	75
6-20	1200	7.740	2.54	10.0	15	75

(1) VALUES OF WATER LEVEL ARE FOR SECTION 3295, 400 2150 METERS TO OBTAIN WATER SURFACE ABOVE NGVD.
(2) EFFECTIVE DISCHARGE AT SECTION; DOES NOT INCLUDE OVERBANK FLOW.

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