6-0160. BEAVERHEAD RIVER AT BARRETTS, MONT.

LOCATION.--Lat 45°07'43", long 112°44'25", at private road bridge, 800 feet upstream from Barretts, Beaverhead County, 1 mile downstream from gaging station, 2.5 miles downstream from Grasshopper Creek, and 8 miles southwest of Dillon.
DRAINAGE AREA.--2,737 square miles upstream from gaging station.
RECORDS AVAILABLE.--Chemical analyses: November 1949 to September 1951, July 1965 to September 1967.
Water temperatures: July 1965 to September 1967.
Sediment records: May 1949 to September 1951.
EXTREMES, 1966-67.--Dissolved solids: Maximum, 466 ppm Jan. 14-31; minimum, 274 ppm June 2-30.
Hardness: Maximum, 316 ppm Jan. 1-13; minimum, 170 ppm June 2-30.
Specific conductance: Maximum daily, 733 micromhos Jan. 24; minimum daily, 353 micromhos June 8.
Water temperatures: Maximum, 69°F Aug. 28, 31, Sept. 1, 5; minimum, freezing point Jan. 24.
EXTREMES, 1965-67.--Dissolved solids: Maximum, 466 ppm Jan. 14-31, 1967; minimum, 274 ppm June 2-30, 1967.
Hardness: Maximum, 316 ppm Jan. 1-13, 1967; minimum, 170 ppm June 2-30, 1967.
Specific conductance: Maximum daily, 733 micromhos Jan. 24, 1967; minimum daily, 353 micromhos June 8, 1967.
Water temperatures: Maximum, 69°F June 28, 1966, Aug. 28, 31, Sept. 1, 5, 1967; minimum, freezing point Jan. 24, 1967.
REMARKS.--Daily samples for chemical analysis composited by discharge. Additional samples were collected for more comprehensive definition of water quality at this station. Maximum observed during water year: Dissolved solids, 475 ppm Mar. 7; hardness, 327 ppm Mar. 7. Minimum observed during water year: Dissolved solids, 261 ppm June 14; hardness, 164 ppm June 14. The computations of tons per day of dissolved solids refer to flow past the gaging station. Thermograph records furnished by Montana Fish and Game Department.

Chemical analyses, in parts per million, water year October 1966 to September 1967

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids (residue at 180°C): Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Calcium, Magnesium	Hardness as $CaCO_3$: Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH	Color
Oct. 1-31, 1966.	166	20		76	26	29	4.9	237	0	146	16	0.5	0.4	0.06	447	0.61	200	298	104	0.7	678	7.5	1
Nov. 1-15.....	188	20		71	27	28	5.4	233	0	140	14	.6	1.0	.14	434	.59	220	290	99	.7	651	8.0	2
Nov. 16-30.....	187	22		66	28	27	4.7	220	0	137	14	.6	.2	.08	411	.56	208	281	101	.7	639	7.8	5
Dec. 1-15.....	168	22		71	28	28	4.5	230	0	144	14	.6	.6	.07	432	.59	196	292	103	.7	658	7.9	5
Dec. 16-31.....	157	22		77	28	28	4.7	239	0	149	14	.7	.8	.07	463	.63	196	309	113	.7	692	7.8	2
Jan. 1-13, 1967.	151	22		80	28	28	4.7	247	0	149	14	.6	.4	.06	464	.63	189	316	113	.7	698	7.8	1
Jan. 14-31.....	156	23		79	27	27	4.5	251	0	147	14	.7	.4	.06	466	.63	196	310	104	.7	698	7.7	2
Feb. 1-28.....	159	23		81	27	26	4.8	244	0	152	14	.7	.0	.07	464	.63	199	314	114	.6	690	8.1	2
Mar. 1-15.....	159	21		79	25	28	5.1	231	0	148	13	.9	.4	.08	450	.61	193	300	111	.7	617	8.1	2
Mar. 16-31.....	172	21		72	22	27	5.0	206	4	131	13	.6	.1	.07	410	.56	190	271	95	.7	613	8.3	7
Apr. 1-30.....	178	20		67	26	27	4.8	212	4	126	13	.5	.0	.06	410	.56	197	272	91	.7	623	8.3	5
May 1-21.....	213	21		68	21	28	3.8	224	0	126	13	.1	.2	.05	416	.57	239	256	72	.8	625	8.0	20
May 22-June 1...	526	22		55	19	23	2.8	200	0	95	10	.5	.3	.05	344	.47	489	215	51	.7	527	8.0	30
June 2-30.....	478	21		44	14	19	5.0	165	0	64	8.4	.3	.4	.04	274	.37	354	170	35	.6	408	7.8	40
July 1-10.....	454	19		61	22	22	4.9	219	0	101	8.2	.4	.1	.05	361	.49	443	255	75	.6	546	7.9	15
July 11-31.....	620	22		66	25	23	5.4	233	0	106	11	.2	.0	.05	390	.53	653	277	86	.6	595	7.8	15
Aug. 1-31.....	611	21		68	25	24	5.4	244	0	103	10	.4	.0	.04	389	.53	642	308	108	.6	594	7.7	10
Sept. 1-30.....	357	21		65	24	26	5.3	237	0	108	11	.7	.2	.07	397	.54	383	260	66	.7	606	7.5	9
Weighted average.....	--	21		65	23	25	4.9	223	--	112	11	0.5	0.2	0.05	389	0.53	308	268	84	0.7	588	7.8	14
Time-weighted average.....	293	21		69	24	26	4.8	226	--	124	12	0.5	0.3	0.06	410	--	--	277	90	0.7	617	7.8	10
Tons per day..	--	17		52	18	19	3.9	176	--	89	9.0	0.4	0.2	0.04	--	--	--	--	--	--	--	--	11

MISSOURI RIVER MAIN STEM--Continued

6-0160. BEAVERHEAD RIVER AT BARRETTS, MONT.--Continued

Additional analyses, in parts per million, water year October 1966 to September 1967

Date of collection	Mean discharge (cfs)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Boron (B)	Dissolved solids (residue at 180°C) Parts per million	Tons per acre-foot	Tons per day	Hardness as $CaCO_3$ Calcium, Magnesium	Noncarbonate	Sodium adsorption ratio	Specific conductance (micromhos at 25°C)	pH	Color
Mar. 7, 1967....	A154	20		82	30	27	4.9	258	0	150	13	0.6	0.4	0.09	475	0.65	198	327	115	0.6	713	8.2	3
June 14.....	A500	22	0.07	44	13	14	4.0	159	0	59	7.8	.3	.4	.03	261	.35	352	164	34	.5	386	7.7	30

A Discharge at time of sampling.

Temperature (°F) of water, water year October 1966 to September 1967
(Thermograph record October, May to September; once-daily measurements November to April)

Month	Day 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
October																																
Maximum	57	56	57	58	59	60	58	56	55	56	56	55	52	52	52	51	51	50	50	50	48	46	49	51	52	52	52	50	49	49	50	52
Minimum	50	50	48	49	50	50	51	50	48	47	48	52	47	45	45	44	46	44	43	46	44	43	44	44	44	46	48	45	42	46	45	46
November	47	46	46	47	46	41	39	39	40	42	41	42	42	46	46	43	43	44	47	47	42	41	38	37	37	40	40	41	40	40	--	42
December	37	36	41	38	39	37	37	36	34	34	36	39	40	40	37	37	37	41	41	40	39	37	36	37	37	38	35	34	34	37	41	37
January.....	37	38	38	37	39	38	36	35	36	39	42	39	42	41	42	39	39	40	40	42	41	40	38	32	34	37	40	40	41	42	42	38
February.....	40	41	41	44	42	39	40	38	39	42	40	38	40	40	38	38	38	39	40	42	41	41	42	45	43	45	44	45	--	--	--	40
March.....	45	44	40	38	38	38	41	42	40	40	41	39	41	42	45	45	45	46	43	46	47	48	45	46	46	47	48	48	47	47	47	43
April.....	47	47	48	49	48	48	50	51	51	50	51	53	54	53	47	48	50	51	49	48	49	55	55	50	52	52	51	47	46	43	--	49
May																																
Maximum	--	53	52	56	58	54	57	62	58	55	56	52	52	57	60	63	60	62	62	64	66	65	64	59	60	58	60	57	--	56	53	58
Minimum	--	--	42	44	45	46	49	48	50	45	42	45	45	46	50	50	50	51	52	50	51	52	50	50	50	48	48	50	50	50	50	48
June																																
Maximum	56	58	60	60	56	58	58	60	60	57	54	57	56	54	63	66	67	66	68	68	62	59	56	59	64	65	62	65	68	68	--	61
Minimum	50	52	52	54	54	52	54	55	56	54	54	52	54	51	53	56	59	58	59	60	58	55	53	51	56	58	59	55	57	58	--	54
July																																
Maximum	68	68	62	66	64	65	65	61	64	66	66	66	63	64	66	64	60	55	65	66	65	66	66	66	65	65	64	65	62	65	64	64
Minimum	56	56	56	55	56	56	56	56	55	56	56	56	57	56	55	56	56	55	56	56	56	56	56	56	56	57	56	56	57	56	58	56
August																																
Maximum	65	65	64	63	66	64	65	64	65	66	65	66	65	66	66	66	66	66	66	67	66	68	67	68	67	68	68	69	68	68	69	66
Minimum	56	57	57	58	58	58	57	57	57	57	58	58	58	59	59	59	59	59	60	59	61	60	59	59	60	59	60	59	60	60	59	58
September																																
Maximum	69	68	66	68	69	67	67	66	68	66	62	60	62	64	64	64	64	63	62	65	66	65	64	64	64	63	64	64	64	60	--	64
Minimum	60	60	60	59	59	61	58	58	60	59	58	57	54	55	55	56	55	55	54	56	56	57	56	56	57	56	55	56	56	57	--	57

MISSOURI RIVER MAIN STEM--Continued

6-0265. JEFFERSON RIVER NEAR TWIN BRIDGES, MONT.--Continued

Suspended sediment, water year October 1966 to September 1967

Day	OCTOBER			NOVEMBER			DECEMBER		
	Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment	
		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day
1..	576	13	20	932	24	60	1030	48	130
2..	624	9	15	941	25	64	1000	38	100
3..	632	35	60	932	15	38	980	42	110
4..	616	15	25	932	18	45	1000	41	110
5..	624	24	40	923	24	60	980	52	140
6..	656	40	71	941	25	64	950	32	82
7..	648	29	51	960	19	49	950	19	49
8..	632	36	61	990	23	61	900	40	97
9..	624	45	76	980	26	69	840	43	98
10..	632	33	56	960	20	52	840	43	98
11..	656	31	55	970	16	42	880	44	100
12..	680	27	50	1020	31	85	950	50	130
13..	707	32	61	1050	44	120	1000	46	120
14..	743	34	68	1080	28	82	1030	46	130
15..	761	37	76	1070	43	120	950	46	120
16..	797	32	69	1070	31	90	914	40	99
17..	797	25	54	1050	34	96	905	38	93
18..	797	19	41	1030	25	70	950	37	95
19..	797	26	56	1040	24	67	960	39	100
20..	806	33	72	1020	28	77	950	47	120
21..	824	23	51	1070	31	90	960	51	130
22..	833	23	52	1130	31	95	887	39	93
23..	869	22	52	1050	22	62	800	40	86
24..	887	20	48	970	23	60	770	38	79
25..	896	22	53	932	25	63	760	33	68
26..	896	17	41	950	31	80	750	32	65
27..	905	12	29	950	41	110	750	32	65
28..	905	16	39	932	28	70	750	32	65
29..	905	26	64	980	21	56	760	27	55
30..	914	13	32	1040	30	84	780	22	46
31..	932	37	93	--	--	--	800	31	67
Total	23571	--	1631	29895	--	2181	27726	--	2940

	JANUARY			FEBRUARY			MARCH		
1..	850	40	92	896	26	63	824	28	62
2..	870	32	75	896	22	53	842	20	45
3..	850	25	57	932	18	45	833	16	36
4..	840	21	48	960	22	57	797	15	32
5..	860	32	74	950	17	44	779	24	50
6..	840	43	98	914	17	42	806	21	46
7..	800	54	120	923	22	55	761	34	70
8..	800	60	130	887	22	53	815	11	24
9..	850	61	140	905	24	59	842	19	43
10..	880	29	69	914	16	39	820	60	130
11..	914	26	64	887	11	26	800	48	100
12..	914	44	110	878	15	36	770	54	110
13..	905	36	88	896	15	36	750	13	26
14..	923	47	120	887	19	46	750	17	34
15..	932	64	160	810	14	31	760	13	27
16..	941	62	160	800	6	13	800	13	28
17..	905	62	150	820	9	20	833	31	70
18..	905	31	76	820	16	35	860	18	42
19..	941	27	69	810	21	46	878	15	36
20..	950	44	110	800	21	45	878	23	55
21..	941	25	64	800	16	35	860	23	53
22..	950	33	85	800	25	54	869	31	73
23..	914	23	57	820	22	49	869	34	80
24..	800	22	48	833	22	49	887	32	77
25..	780	24	51	824	28	62	887	26	62
26..	800	18	39	824	27	60	878	38	90
27..	900	26	63	815	22	48	869	49	110
28..	960	29	75	824	27	60	869	23	54
29..	990	52	140	--	--	--	950	9	23
30..	970	50	130	--	--	--	970	15	39
31..	950	33	85	--	--	--	923	26	65
Total	27625	--	2847	24125	--	1261	26029	--	1792

MISSOURI RIVER MAIN STEM--Continued

6-0265. JEFFERSON RIVER NEAR TWIN BRIDGES, MONT.--Continued

Suspended sediment, water year October 1966 to September 1967--Continued

Day	APRIL			MAY			JUNE		
	Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment	
		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day
1..	887	36	86	1250	17	57	9430	160	4100
2..	887	36	86	1190	9	29	9520	95	2400
3..	905	36	88	1200	11	36	9400	89	2300
4..	923	54	130	1200	6	19	8770	57	1300
5..	1020	44	120	1220	16	53	8400	77	1700
6..	1120	57	170	1300	17	60	8370	140	3200
7..	1060	50	140	1480	12	48	9050	71	1700
8..	1040	52	150	2130	60	350	9850	72	1900
9..	1030	51	140	3410	290	2700	9670	150	3900
10..	1030	44	120	4670	290	3700	9370	63	1600
11..	1030	45	130	4260	86	990	9080	77	1900
12..	1060	44	130	3760	67	680	9050	86	2100
13..	1070	48	140	3200	43	370	8940	83	2000
14..	1080	34	99	2720	38	280	9170	75	1900
15..	1130	51	160	2380	22	140	8940	120	2900
16..	1090	31	91	2430	11	72	8490	63	1400
17..	1040	28	79	2720	10	73	7330	93	1800
18..	1030	28	78	3220	26	230	6960	99	1900
19..	1010	24	65	3560	42	400	7030	64	1200
20..	1040	24	67	3850	46	480	7360	65	1300
21..	1050	18	51	4120	35	390	7460	53	1100
22..	1080	28	82	4520	57	700	8290	65	1500
23..	1080	27	79	5460	140	2100	9760	99	2600
24..	1120	20	60	6680	120	2200	9260	84	2100
25..	1180	13	41	7880	100	2100	8770	82	1900
26..	1280	26	90	8160	96	2100	8130	80	1800
27..	1370	15	55	7620	92	1900	6680	80	1400
28..	1460	26	100	6780	77	1400	6000	64	1000
29..	1500	17	69	6700	53	960	5750	110	1700
30..	1380	12	45	8740	65	1500	5550	50	750
31..	--	--	--	9140	160	3900	--	--	--
Total	32982	--	2941	126950	--	30017	249830	--	58350

Day	JULY			AUGUST			SEPTEMBER		
1..	4920	82	1100	1140	6	18	436	50	59
2..	4280	37	430	1090	8	24	478	67	86
3..	3800	73	750	1030	5	14	513	39	54
4..	3650	27	270	1000	4	11	536	48	69
5..	3470	11	100	950	4	10	568	41	63
6..	3360	11	100	941	4	10	616	35	58
7..	3190	6	52	960	3	8	648	15	26
8..	3050	8	66	941	6	15	656	77	140
9..	2920	34	270	914	3	7	664	43	77
10..	2800	21	160	878	3	7	680	63	120
11..	2650	21	150	851	4	9	725	64	130
12..	2510	17	120	788	5	11	806	59	130
13..	2320	10	63	743	2	4	869	60	140
14..	2190	5	30	716	3	6	887	49	120
15..	2160	12	70	698	3	6	887	50	120
16..	2130	31	180	648	3	5	851	47	110
17..	2210	25	150	608	5	8	833	54	120
18..	2450	17	110	560	4	6	833	38	85
19..	2510	24	160	513	3	4	806	32	70
20..	2410	28	180	499	4	5	797	31	67
21..	2130	18	100	450	5	6	800	42	91
22..	1920	11	57	429	6	7	780	21	44
23..	1780	18	87	401	7	8	760	27	55
24..	1620	20	87	380	5	5	730	19	37
25..	1450	10	39	356	9	9	680	13	24
26..	1340	5	18	326	6	5	620	22	37
27..	1350	7	26	315	7	6	560	16	24
28..	1320	7	25	350	13	12	580	34	53
29..	1300	8	28	374	9	9	610	25	41
30..	1250	8	27	374	28	28	640	31	54
31..	1180	4	13	408	18	20	--	--	--
Total	75620	--	5018	20631	--	303	20849	--	2304

Total discharge for year (cfs-days)..... 685833
Total load for year (tons)..... 111585

YELLOWSTONE RIVER BASIN--Continued

6-2445. FIVEMILE CREEK ABOVE WYOMING CANAL, NEAR PAVILLION, WYO.

LOCATION.--Lat 43°18'04", long 108°42'04", at gaging station 1,400 feet upstream from Wyoming Canal siphon and 4 miles north of Pavillion, Fremont County.
DRAINAGE AREA.--118 square miles.
RECORDS AVAILABLE.--Chemical analyses: October 1950 to November 1951.
Water temperatures: October 1950 to September 1951, April to September 1961, April 1965 to September 1966, April to September 1967.
Sediment records: October 1949 to September 1958, April 1961 to September 1964, April 1965 to September 1966, April to September 1967.
EXTREMES, April to September 1967.--Water temperatures: Maximum, 85°F July 28, Aug. 4; minimum, freezing point Apr. 3.
Sediment concentrations: Maximum daily, 12,000 ppm June 9; minimum daily, not determined.
Sediment loads: Maximum daily, 1,900 tons June 9; minimum daily, less than 0.05 ton on many days.
EXTREMES, 1949-58, 1961-67.--Water temperatures: Maximum (1961, 1965-67), 87°F July 16, 1966; minimum, freezing point on many days during winter months.
Sediment concentrations: Maximum daily, 77,400 ppm Sept. 20, 1950; minimum daily, no flow on many days most years.
Sediment loads: Maximum daily, 123,000 tons Sept. 20, 1950; minimum daily, 0 tons on many days most years.

Temperature (°F) of water, April to September 1967

Month	Day																														Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
April.....	40	42	32	33	50	36	38	38	55	39	42	40	36	44	37	34	33	35	42	38	37	39	34	36	38	42	55	49	37	33	--	39
May.....	34	37	35	35	40	40	57	45	44	57	41	44	42	40	49	69	48	55	51	48	65	59	55	72	56	51	67	54	57	57	50	50
June	48	47	45	47	55	59	53	52	45	50	52	55	62	55	50	54	55	56	62	57	58	57	49	52	52	55	57	53	60	61	--	53
July.....	61	60	62	63	62	59	59	59	54	58	61	62	66	63	64	75	63	60	60	84	62	63	80	63	68	64	67	85	61	--	70	64
August.....	--	60	58	85	59	--	72	81	57	56	59	64	--	52	50	59	54	64	63	--	--	60	--	--	--	--	--	--	--	--	--	--
September.....	52	58	54	70	56	56	58	59	60	74	52	44	44	50	47	46	--	44	46	48	54	52	50	68	54	53	48	54	48	55	--	53

YELLOWSTONE RIVER BASIN--Continued

6-2445. FIVEMILE CREEK ABOVE WYOMING CANAL, NEAR PAVILLION, WYO.--Continued

Suspended sediment, April to September 1967
(Where no daily concentrations are reported, loads are estimated)

Day	APRIL			MAY			JUNE		
	Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment	
		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day
1..	4.6	860	11	6.6	570	10	34	5200	S 580
2..	6.2	740	12	7.1	450	8.6	28	2600	200
3..	4.2	740	8.4	5.8	330	5.2	16	1100	48
4..	4.6	510	6.3	5.4	360	5.2	11	400	12
5..	4.2	500	5.7	5.8	320	5.0	9.5	400	10
6..	3.4	370	3.4	4.6	230	2.9	11	300	8.9
7..	3.2	320	2.8	3.2	220	1.9	7.9	300	6.4
8..	2.6	310	2.2	2.4	70	.5	8.3	300	6.7
9..	4.2	250	2.8	2.6	50	.4	51	12000	S 1900
10..	3.5	230	2.2	2.9	70	.5	34	5500	S 540
11..	2.9	170	1.3	3.8	100	1.0	27	3000	220
12..	2.9	180	1.4	6.6	420	7.5	28	3800	290
13..	2.9	190	1.5	5.4	220	3.2	36	7600	740
14..	2.6	180	1.3	4.6	170	2.1	33	7500	670
15..	2.6	260	1.8	4.6	50	.6	33	5300	470
16..	4.2	310	3.5	5.0	250	3.4	31	4600	390
17..	3.2	280	2.4	3.8	29	.3	31	3300	280
18..	3.4	230	2.1	3.2	19	.2	26	2200	150
19..	2.9	200	1.6	3.4	43	.4	23	1200	75
20..	2.5	160	1.1	3.8	28	.3	36	6300	S 890
21..	3.8	400	4.1	2.9	22	.2	28	5000	380
22..	2.9	230	1.8	2.4	8	.1	36	5400	S 690
23..	2.2	160	1.0	1.9	5	T	41	6300	S 760
24..	5.8	540	8.5	1.8	8	T	32	4300	370
25..	7.1	370	7.1	1.9	6	T	30	4400	360
26..	5.0	280	3.8	1.6	4	T	27	3300	240
27..	4.6	330	4.1	1.8	8	T	21	2600	150
28..	4.2	330	3.7	2.2	33	.2	19	2400	120
29..	7.1	690	13	3.8	130	S 1.6	16	1500	65
30..	7.5	630	13	4.6	240	3.0	15	1400	57
31..	--	--	--	8.9	1200	S 31	--	--	--
Total	121.0	--	134.9	124.4	--	95.5	779.7	--	10679.0

Day	JULY			AUGUST			SEPTEMBER		
1..	12	750	24	1.2	560	1.8	12	1400	50
2..	9.9	620	17	.48	110	.1	20	1300	70
3..	10	380	10	.34	18	T	22	1100	65
4..	8.5	240	5.5	.34	6	T	20	530	29
5..	6.1	170	2.8	.67	42	.1	14	320	12
6..	5.1	150	2.1	.54	--	T	7.1	160	3.1
7..	4.2	120	1.4	.83	81	.2	3.6	120	1.2
8..	5.9	410	S 12	.48	23	T	2.2	62	.4
9..	3.9	400	4.2	.48	17	T	1.5	22	.1
10..	3.3	130	1.2	.38	20	T	1.1	10	T
11..	2.4	100	.6	.34	18	T	.85	8	T
12..	2.4	87	.6	6.0	3400	S 98	.85	5	T
13..	3.9	310	S 3.4	1.2	--	2.5	1.2	10	T
14..	3.0	290	2.3	.77	75	.2	1.1	10	T
15..	2.7	140	1.0	.54	38	.1	.85	12	T
16..	2.4	94	.6	.43	32	T	1.2	14	T
17..	2.5	120	.8	.38	22	T	17	1000	S 163
18..	1.4	140	.5	.30	13	T	12	1600	S 60
19..	1.2	140	.5	.26	10	T	5.6	360	5.4
20..	.95	34	.1	.26	--	T	4.8	220	2.9
21..	.95	20	.1	.20	--	T	4.5	160	1.9
22..	.85	18	T	.20	17	T	4.5	130	1.6
23..	.85	9	T	.17	--	T	4.2	60	.7
24..	.85	8	T	.14	--	T	3.9	42	.4
25..	.85	3	T	.12	--	T	3.3	100	.9
26..	.85	6	T	.14	--	T	3.6	220	2.1
27..	.85	8	T	.17	--	T	3.3	60	.5
28..	.85	8	T	.14	--	T	3.0	41	.3
29..	.77	15	T	.12	--	T	2.7	31	.2
30..	.85	--	T	.23	--	T	2.7	26	.2
31..	3.1	310	S 9.9	.48	--	.1	--	--	--
Total	103.37	--	100.8	18.33	--	103.5	184.65	--	471.1

Total discharge for period Apr. 1 to Sept. 30 (cfs-days)..... 1331.4
Total load for period Apr. 1 to Sept. 30 (tons)..... 11584.8

S Computed by subdividing day.
T Less than 0.05 ton.