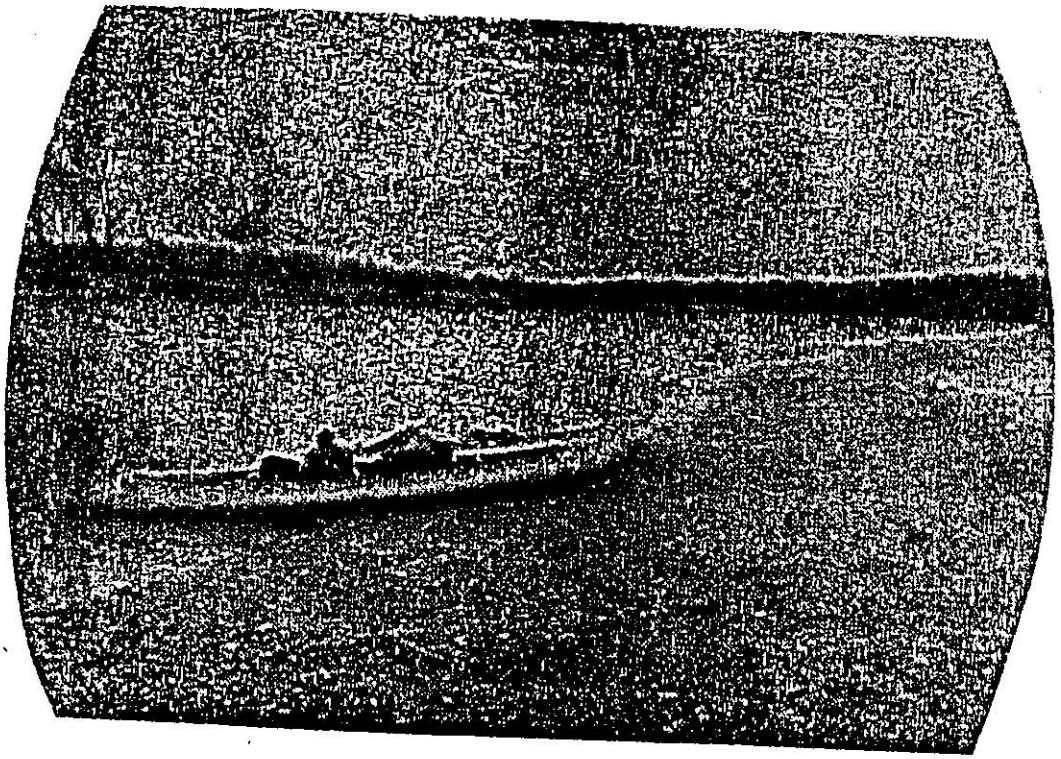
The Yellowstone River Instream Reservation



Final Instream Flow Quantifications

Priority Date
12-15-78

Yellowstone Reservations

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TOTAL = 66 Streams

UPPER YELLOWSTONE BASIN

(Gardiner to Mouth of Boulder River)

MIDDLE YELLOWSTONE BASIN

(Boulder River to Big Horn River)

ARMSTRONG SPRING CREEK
Mouth to Origin

50th Percentile May-Sep.
10th Percentile Oct.-Apr.

	Cfs	AF
Jan.	102.0	6,272
Feb.	102.0	5,665
Mar.	102.0	6,272
Apr.	118.0	7,021
May	135.0	8,301
Jun.	151.0	8,985
Jul.	133.0	8,178
Aug.	120.0	7,378
Sep.	116.0	6,902
Oct.	110.0	6,764
Nov.	109.0	6,486
Dec.	105.0	6,456
		84,680 AF/year

BEAR CREEK
Mouth to North Fork (USGS Site No. 2) 3.6 miles

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	10.1	621
Feb.	9.58	532
Mar.	10.8	664
Apr.	32.2	1,916
May	90.8	5,583
Jun.	322.0	19,160
Jul.	135.0	8,301
Aug.	46.7	2,871
Sep.	38.8	2,309
Oct.	18.1	1,113
Nov.	16.5	982
Dec.	12.4	762

44,814 AF/year

BEAR CREEK
North Fork to Fish Lake (USGS Site No. 1) 6.6 miles (est)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	5.68	349
Feb.	5.35	297
Mar.	6.15	378
Apr.	19.9	1,184
May	56.2	3,456
Jun.	186.0	11,068
Jul.	71.9	4,421
Aug.	24.3	1,494
Sep.	21.1	1,255
Oct.	10.3	633
Nov.	9.48	564
Dec.	7.11	437

25,536 AF/year

mouth - Bark Cabin Cr
- 10.5 miles

BIG CREEK
Mouth to Millfork Creek (Gage No. 06191800)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	25.0	1,537
Feb.	23.0	1,277
Mar.	26.0	1,599
Apr.	57.0	3,392
May	117.0	7,194
Jun.	240.0	14,281
Jul.	97.0	5,964
Aug.	35.0	2,152
Sep.	33.0	1,964
Oct.	36.0	2,214
Nov.	34.0	2,023
Dec.	29.0	1,783
		45,380 AF/year

BIG CREEK
Millfork Creek to Bark Cabin Creek

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	9.0	553
Feb.	8.0	444
Mar.	9.0	553
Apr.	19.0	1,130
May	41.0	2,521
Jun.	84.0	4,998
Jul.	33.0	2,029
Aug.	12.0	738
Sep.	11.0	654
Oct.	13.0	799
Nov.	12.0	714
Dec.	10.0	615
		15,748 AF/year

BILLMAN CREEK
Mouth to Coke (Miner) Creek (USGS Site No. 20)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	9.66	594
Feb.	9.18	510
Mar.	10.4	640
Apr.	31.0	1,845
May	87.7	5,393
Jun.	27.8	1,654
Jul.	8.11	499
Aug.	2.53	156
Sep.	2.58	154
Oct.	17.4	1,070
Nov.	15.8	940
Dec.	11.9	732
		14,187 AF/year

BILLMAN CREEK
Coke (Miner) Creek to Fork South of NE Corner Sec. 20
(USGS Site No. 18)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	5.25	323
Feb.	4.94	274
Mar.	5.70	350
Apr.	18.6	1,107
May	52.6	3,234
Jun	21.6	1,285
Jul.	6.10	375
Aug.	1.88	116
Sep.	1.96	117
Oct.	9.50	584
Nov.	8.78	522
Dec.	6.59	405
		8,692 AF/year

BRACKETT CREEK
Mouth to Sheep Creek (USGS Gage No. 06194000) 6.2 miles

50th Percentile Jan.-Dec.[1]

	Cfs	AF
Jan.	7.0	430
Feb.	7.0	389
Mar.	9.0	553
Apr.	42.0	2,499
May	93.0	5,718
Jun.	79.0	4,701
Jul.	27.0	1,660
Aug.	10.0	615
Sep.	11.0	654
Oct.	11.0	676
Nov.	9.0	536
Dec.	7.0	430
		18,861 AF/year

[1]Derived from the actual gage records of the Brackett Creek gage (#06194000). These cfs figures differ from those in Table 8 of the USGS report, which are estimates based on the Riggs' Method. (See Appendix A, pages 16-19)

BRACKETT CREEK

Sheep Creek to Skunk Creek (USGS Site No. 32) 6.7 miles

50th Percentile Jan.-Dec.

	Cfs	AF
Jan.	5.77	355
Feb.	5.77	320
Mar.	7.55	464
Apr.	40.4	2,404
May	89.6	5,509
Jun.	75.6	4,498
Jul.	29.6	1,820
Aug.	11.1	682
Sep.	11.9	708
Oct.	9.08	558
Nov.	7.31	435
Dec.	5.79	356

18,109 AF/year

[1]These cfs figures differ from those in Table 8 of the USGS report, which are estimates based on the Riggs' Method. Those estimates were adjusted to account for the difference between the estimates derived from regression equations using the Riggs' Method, and the values determined from the gage record (No. 06194000). See explanation in Appendix A, Pages 16-19.

BRACKETT CREEK
Skunk Creek to Confluence of North, Middle and South Forks[1]
(USGS Site No. 31)

4.8 miles

50th Percentile Jan.-Dec.[2]

	Cfs	AF
Jan.	3.20	197
Feb.	3.20	178
Mar.	4.26	262
Apr.	29.2	1,738
May	63.2	3,886
Jun.	49.0	2,916
Jul.	21.3	1,310
Aug.	7.98	491
Sep.	8.79	523
Oct.	5.01	308
Nov.	4.00	238
Dec.	3.17	195

12,242 AF/year

[1]Shown in reservation application (page 32), and Order of the Board as "Brackett Creek-Skunk Creek to one mile up North, Middle, and South Forks."

[2]These cfs figures differ from those shown in Table 8 of the USGS report, which are estimates based on the Riggs' Method. Those estimates were adjusted to account for the difference between the estimates derived from regression equations using the Riggs' Method, and the values determined from the gage record (No. 06194000). See explanation in Appendix A, Pages 16-19.

CEDAR CREEK
Mouth to Second Fork (USGS Site No. 7)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	3.02	186
Feb.	2.81	156
Mar.	3.30	203
Apr.	11.7	696
May	33.0	2,029
Jun.	28.7	1,708
Jul.	8.43	518
Aug.	2.63	162
Sep.	2.68	159
Oct.	5.48	337
Nov.	5.15	306
Dec.	3.84	236

6,696 AF/year

CINNABAR CREEK
Mouth to Cottonwood Creek (USGS Site No. 5)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	4.29	264
Feb.	4.21	234
Mar.	4.88	300
Apr.	16.3	970
May	46.1	2,835
Jun.	38.8	2,309
Jul.	11.9	732
Aug.	3.76	231
Sep.	3.73	222
Oct.	8.13	500
Nov.	7.54	449
Dec.	5.65	347

9,393 AF/year

CINNABAR CREEK
Cottonwood Creek to FS Boundary in T8S, R7E and Sec. 32
(USGS Site No. 4)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	3.35	206
Feb.	3.13	174
Mar.	3.67	226
Apr.	12.8	761
May	36.1	2,220
Jun.	35.7	2,124
Jul.	10.8	664
Aug.	3.41	210
Sep.	3.41	203
Oct.	6.09	374
Nov.	5.70	339
Dec.	4.26	262
		7,763 AF/year

COKE (MINER) CREEK
Mouth to Miner (Eldridge) Creek (USGS Site No. 19)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	4.02	247
Feb.	3.77	209
Mar.	4.38	269
Apr.	14.9	887
May	42.0	2,582
Jun.	13.2	785
Jul.	3.46	213
Aug.	1.05	65
Sep.	1.14	68
Oct.	7.30	449
Nov.	6.79	404
Dec.	5.08	312
		6,490 AF/year

COTTONWOOD CREEK
Mouth to Little Cottonwood Creek (USGS Site No. 27)

50th Percentile Jan.-Dec.

	Cfs	AF
Jan.	7.98	491
Feb.	7.98	443
Mar.	8.34	513
Apr.	20.9	1,244
May	79.8	4,907
Jun.	105.0	6,248
Jul.	33.3	2,048
Aug.	11.0	676
Sep.	10.1	601
Oct.	13.8	848
Nov.	11.9	708
Dec.	9.43	580
		19,307 AF/year

COTTONWOOD CREEK
Little Cottonwood Creek to Trespass Creek (USGS Site No. 26)

50th Percentile Jan.-Dec.

	Cfs	AF
Jan.	5.44	334
Feb.	5.44	302
Mar.	5.69	350
Apr.	15.1	898
May	74.8	4,599
Jun.	105.0	6,248
Jul.	41.4	2,546
Aug.	13.7	842
Sep.	12.4	738
Oct.	9.40	578
Nov.	8.18	487
Dec.	6.43	395
		18,317 AF/year

EIGHTMILE CREEK
Mouth to Big Draw (USGS Site No. 14)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	10.5	646
Feb.	9.99	555
Mar.	11.2	689
Apr.	33.3	1,981
May	93.9	5,774
Jun.	63.2	3,761
Jul.	20.8	1,279
Aug.	6.72	413
Sep.	6.40	381
Oct.	18.9	1,162
Nov.	17.1	1,017
Dec.	12.9	793
		18,451 AF/year

EMIGRANT SPRING CREEK
Mouth to Origin

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	5.2	320
Feb.	5.2	289
Mar.	5.2	320
Apr.	9.0	536
May	12.5	768
Jun.	16.6	988
Jul.	12.5	768
Aug.	9.2	566
Sep.	7.4	440
Oct.	6.2	381
Nov.	5.8	345
Dec.	5.4	332

6,053 AF/year

FLATHEAD CREEK
Mouth to Muddy Creek (USGS Site No. 25)

50th Percentile Jan.-Dec.

	Cfs	AF
Jan.	18.8	1,156
Feb.	18.8	1,044
Mar.	22.4	1,377
Apr.	33.6	1,999
May	123.0	7,563
Jun.	119.0	7,081
Jul.	25.7	1,580
Aug.	9.71	597
Sep.	8.51	506
Oct.	30.6	1,882
Nov.	26.7	1,589
Dec.	22.4	1,377

27,751 AF/year

FLATHEAD CREEK
Muddy Creek to Cache Creek (USGS Site No. 24)

50th Percentile Jan.-Dec.

	Cfs	AF
Jan.	13.4	824
Feb.	13.4	744
Mar.	16.1	990
Apr.	31.1	1,851
May	112.0	6,887
Jun.	107.0	6,367
Jul.	35.2	2,164
Aug.	13.3	818
Sep.	11.4	678
Oct.	21.7	1,334
Nov.	18.8	1,119
Dec.	15.8	972
		24,748 AF/year

FLATHEAD CREEK
Cache Creek to S.F. Flathead Creek (USGS Site No. 23)

50th Percentile Jan.-Dec.

	Cfs	AF
Jan.	4.20	258
Feb.	4.20	233
Mar.	5.24	322
Apr.	12.9	768
May	43.8	2,693
Jun.	33.1	1,970
Jul.	13.4	824
Aug.	5.07	312
Sep.	4.61	274
Oct.	6.74	414
Nov.	5.69	339
Dec.	4.86	299
		8,706 AF/year

FLESHMAN CREEK
Mouth to Perkins Creek (USGS Site No. 21)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	2.72	167
Feb.	2.53	140
Mar.	2.99	184
Apr.	10.7	637
May	30.3	1,863
Jun.	6.57	391
Jul.	1.55	95
Aug.	0.46	28
Sep.	0.52	31
Oct.	4.95	304
Nov.	4.66	277
Dec.	3.48	214

4,331 AF/year

FRIDLEY CREEK
Mouth to Miller Creek (USGS Site No. 13)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	1.58	97
Feb.	1.46	81
Mar.	1.76	108
Apr.	6.81	405
May	19.2	1,181
Jun.	29.7	1,767
Jul.	8.76	539
Aug.	2.74	168
Sep.	2.78	165
Oct.	2.90	178
Nov.	2.77	165
Dec.	2.05	126

4,980 AF/year

FRIDLEY CREEK
Miller Creek to Needle Creek (USGS Site No. 12)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	6.12	376
Feb.	5.77	320
Mar.	6.62	407
Apr.	21.2	1,261
May	59.8	3,677
Jun.	69.6	4,141
Jul.	23.3	1,433
Aug.	7.55	464
Sep.	7.13	424
Oct.	11.1	682
Nov.	10.2	607
Dec.	7.64	470

14,262 AF/year

LITTLE MISSION CREEK
Mouth to Little Mission Forks (USGS Site No. 36)

90th Percentile May-Sep.
50th Percentile Oct.-Apr.

	Cfs	AF
Jan.	2.00	123
Feb.	2.00	111
Mar.	2.55	157
Apr.	9.66	575
May	38.1	2,343
Jun.	31.9	1,898
Jul.	5.60	344
Aug.	1.72	106
Sep.	1.65	98
Oct.	3.19	196
Nov.	2.65	158
Dec.	2.28	140

6,249 AF/year

MCDONALD SPRING CREEK
Mouth to northern boundary of Sec. 22

50th Percentile May-Sep
10th Percentile Oct-Apr

	Cfs	AF
Jan.	7.2	443
Feb.	7.2	400
Mar.	7.2	443
Apr.	12.1	720
May	16.8	1,033
Jun.	21.3	1,267
Jul.	16.8	1,033
Aug.	12.7	781
Sep.	10.4	619
Oct.	8.6	529
Nov.	10.2	607
Dec.	9.5	584
		8,459 AF/year

MIDDLE FORK BRACKETT CREEK
Mouth to One Mile Upstream[1] (USGS Site No. 29)

50th Percentile Jan.-Dec.

	Cfs	AF
Jan.	1.28	79
Feb.	1.28	71
Mar.	1.66	102
Apr.	10.5	625
May	35.3	2,170
Jun.	25.3	1,505
Jul.	4.61	283
Aug.	1.74	107
Sep.	1.69	101
Oct.	2.04	125
Nov.	1.68	100
Dec.	1.45	89
		5,357 AF/year

[1]Shown in reservation application (page 32), and Order of the Board as "Brackett Creek-Skunk Creek to one mile up North, Middle, and South forks."

MILL CREEK
Mouth to East Fork (USGS Gage No. 06192000)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	33.0	2,029
Feb.	34.0	1,888
Mar.	33.0	2,029
Apr.	80.0	4,760
May	388.0	23,857
Jun.	757.0	45,045
Jul.	323.0[1]	19,860
Aug.	115.0[1]	7,071
Sep.	89.7[1]	5,338
Oct.	51.0	3,136
Nov.	58.0	3,451
Dec.	47.0	2,890
		121,354 AF/year

[1]Values for these three months are estimates derived for USGS Site No. 15 using the Riggs' Method.

MISSION CREEK
Mouth to Little Bear Draw (USGS Site No. 37)

90th Percentile May-Sep.
50th Percentile Oct.-Apr.

	Cfs	AF
Jan.	6.79	418
Feb.	6.79	377
Mar.	8.36	514
Apr.	24.6	1,464
May	122.0	7,502
Jun.	94.6	5,629
Jul.	27.4	1,685
Aug.	9.68	595
Sep.	8.05	479
Oct.	11.0	676
Nov.	9.35	556
Dec.	7.93	488
		20,383 AF/year

MOL HERON CREEK
Mouth to Cinnabar Creek (USGS Site No. 6)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	9.93	611
Feb.	9.45	525
Mar.	10.6	652
Apr.	31.8	1,892
May	89.7	5,515
Jun.	125.0	7,438
Jul.	45.6	2,804
Aug.	15.1	928
Sep.	13.6	809
Oct.	17.9	1,101
Nov.	16.2	964
Dec.	12.3	756

23,995 AF/year

MOL HERON CREEK
Cinnabar Creek to Yellowstone Park Boundary (USGS Site No. 3)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	6.91	425
Feb.	6.53	363
Mar.	7.46	459
Apr.	23.4	1,392
May	66.2	4,070
Jun.	92.7	5,516
Jul.	32.4	1,992
Aug.	10.6	652
Sep.	9.78	582
Oct.	12.5	769
Nov.	11.4	678
Dec.	8.60	529

17,427 AF/year

NELSON SPRING CREEK
Mouth to Origin

50th Percentile May-Sep.
10th Percentile Oct.-Apr.

	Cfs	AF
Jan.	61	3,751
Feb.	61	3,387
Mar.	61	3,751
Apr.	61	3,630
May	33	2,029
Jun.	33	1,964
Jul.	33	2,029
Aug.	33	2,029
Sep.	33	1,964
Oct.	61	3,751
Nov.	61	3,630
Dec.	61	3,751
		35,666 AF/year

NORTH FORK BRACKETT CREEK
Mouth to One Mile Upstream[1] (USGS Site No. 28)

50th Percentile Jan.-Dec.

	Cfs	AF
Jan.	2.08	128
Feb.	2.08	116
Mar.	2.66	164
Apr.	11.9	708
May	40.4	2,484
Jun.	29.9	1,779
Jul.	11.3	695
Aug.	4.26	262
Sep.	3.92	233
Oct.	3.32	204
Nov.	2.77	165
Dec.	2.38	146
		7,084 AF/year

[1]Shown in reservation application (page 32), and Order of the Board as "Brackett Creek-Skunk Creek to one mile up North, Middle, and South forks."

ROCK CREEK (SHIELDS DRAINAGE)
Mouth to Forest Service West Boundary Sec. 8 (USGS Site No. 34)

50th Percentile Jan.-Dec.

	Cfs	AF
Jan.	5.77	355
Feb.	5.77	320
Mar.	6.03	371
Apr.	15.9	946
May	68.0	4,181
Jun.	132.0	7,854
Jul.	48.6	2,988
Aug.	16.2	996
Sep.	14.5	863
Oct.	9.96	612
Nov.	8.66	515
Dec.	6.81	419

20,420 AF/year

ROCK CREEK (YELLOWSTONE DRAINAGE)
Mouth to Steele Creek (USGS Site No. 10)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	4.36	268
Feb.	4.09	227
Mar.	4.74	291
Apr.	15.9	946
May	45.0	2,767
Jun.	109.0	6,486
Jul.	39.1	2,404
Aug.	12.9	793
Sep.	11.8	702
Oct.	7.90	486
Nov.	7.34	437
Dec.	5.50	338

16,145 AF/year

Shields River near Wilsall
(Approximately 90% Flows, as per USGS Gauging Station at Wilsall)

Month	CFS	AF/Y
January	7	430
February	7	389
March	9	553
April	24	1,430
May	111	6,824
June	119	7,079
July	27 16	1,660
August	12	737
September	11	655
October	12	737
November	11	655
December	10	615
Total Reservation	(Av. 30 cfs)	21,764 af/y

Shields River near Clyde Park
(Approximately 90%ile Flows as per USGS Gauging Station at Clyde Park)

Month	CFS	AF/Y
January	26	1,598
February	29	1,610
March	44	2,704
April (1-15)	93	2,766
April (16-30)	39	1,160
May (1-10)	83	1,645
May (11-20)	137	2,716
May (21-31)	184	4,012
June (1-10)	189	3,747
June (11-20)	157	3,113
June (21-30)	105	2,082
July	22	1,352
August	13	800
September	13	773
October	30	1,845
November	27	1,606
December	31	1,905
Total Reservation	(Av. 49 cfs)	35,434 af/y

SHIELDS RIVER AT ITS MOUTH

90th Percentile January - December

	cfs	AF
January	86.2	5,300
February	87.3	4,848
March	106	6,518
April	131	7,795
May	460	28,284
June	945	56,231
July	99.0	6,087
August	85.6	5,263
September	87.5	5,207
October	132	8,116
November	125	7,438
December	107	6,579
		147,666 AF/Yr.

SIXMILE CREEK
Mouth to North Fork (USGS Site No. 11)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	6.60	406
Feb.	6.23	346
Mar.	7.13	438
Apr.	22.6	1,345
May	63.7	3,917
Jun.	157.0	9,342
Jul.	59.1	3,634
Aug.	19.8	1,217
Sep.	17.5	1,041
Oct.	11.9	732
Nov.	10.9	649
Dec.	8.23	506

23,573 AF/year

SMITH CREEK
Mouth to Bitter Creek (USGS Site No. 22)

50th Percentile Jan.-Dec.

	Cfs	AF
Jan.	2.61	160
Feb.	2.61	145
Mar.	3.31	204
Apr.	23.9	1,422
May	85.1	5,233
Jun.	75.5	4,493
Jul.	13.6	836
Aug.	5.14	316
Sep.	4.67	278
Oct.	4.17	256
Nov.	3.49	208
Dec.	2.99	184

13,735 AF/year

SOUTH FORK BRACKETT CREEK
Mouth to One Mile Upstream[1] (USGS Site No. 30)

50th Percentile Jan.-Dec.

	Cfs	AF
Jan.	0.97	60
Feb.	0.97	54
Mar.	1.27	78
Apr.	8.29	493
May	27.4	1,685
Jun.	18.5	1,101
Ju.	5.68	349
Aug.	2.15	132
Sep.	2.05	122
Oct.	1.54	95
Nov.	1.26	75
Dec.	1.09	67
		4,311 AF/year

[1]Shown in reservation application (page 32), and Order of the Board as "Brackett Creek-Skunk Creek to one mile up North, Middle, and South forks."

SUCE CREEK
Mouth to Lost Creek (USGS Site No. 17)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	0.83	51
Feb.	0.76	42
Mar.	0.93	57
Apr.	3.96	236
May	11.2	689
Jun.	34.5	2,053
Jul.	10.4	639
Aug.	3.27	201
Sep.	3.28	195
Oct.	1.53	94
Nov.	1.48	88
Dec.	1.09	67
		4,412 AF/year

TOM MINER CREEK
Mouth to Canyon Creek (USGS Site No. 9)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	20.7	1,273
Feb.	19.9	1,105
Mar.	21.9	1,347
Apr.	58.8	3,499
May	166.0	10,207
Jun.	188.0	11,187
Jul.	72.7	4,470
Aug.	24.6	1,513
Sep.	21.3	1,267
Oct.	37.0	2,275
Nov.	33.0	1,964
Dec.	25.0	1,537
		41,644 AF/year

TOM MINER CREEK
Canyon Creek to Trail Creek (USGS Site No. 8)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	22.0	1,353
Feb.	21.3	1,183
Mar.	23.3	1,433
Apr.	62.0	3,689
May	175.0	10,760
Jun.	211.0	12,555
Jul.	83.2	5,116
Aug.	28.3	1,740
Sep.	24.3	1,446
Oct.	39.4	2,423
Nov.	35.0	2,083
Dec.	26.6	1,636
		45,417 AF/year

TRAIL CREEK
West Pine Creek to South Boundary Sec. 35
(USGS Site No. 16)

50th Percentile May-Sep.
20th Percentile Oct.-Apr.

	Cfs	AF
Jan.	7.93	488
Feb.	7.52	418
Mar.	8.54	525
Apr.	26.3	1,565
May	74.3	4,568
Jun.	59.0	3,511
Jul.	19.3	1,187
Aug.	6.20	381
Sep.	5.93	353
Oct.	14.3	879
Nov.	13.1	780
Dec.	9.84	605
		15,260 AF/year

DFWP reservation

Yellowstone River at Livingston

Month	CFS	AF/Y	APPROX. %	
January	1,330	81,760	20	
February	1,320	73,292	20	
March	1,350	82,989	20	
April	2,490	148,132	20	
May (1-10)	2,500	49,575		)
May (11-20)	1,900	37,677		)95 for
May (21-31)	4,700	93,202		)May
June (1-10)	7,700	152,693		)
June (11-20)	9,000	178,472		)95 for
June (21-30)	8,000	158,642		)June
July (1-10)	5,400	107,083		)
July (11-20)	3,800	75,355		)95 for
July (21-31)	2,500	49,575		)July
August (1-10)	1,600	31,728		)
August (11-31)	2,125	88,492		)95 for)August
September	1,555	92,508	95	
October	2,350	144,463	20	
November	1,790	106,488	20	
December	1,490	91,596	20	
Total of Months	(Av. 2,553 cfs)	1,843,722 af/y		
Plus Dominant Discharge of	18,200 cfs	36,091 af	for one 24-hour period	
Total Reservation	(Av. 2,596 cfs)	1,879,813 af/y		

Gallatin N.F. — mouth 18.0 miles (est)

Big Timber Creek at Mouth

Month	CFS	AF/Y
January	10	615
February	10	555
March	10	615
April	20	1,190
May	85	5,225
June	180	10,710
July (1-20_)	100	3,967
July (21-31)	30	655
August	25	1,535
September	20	1,190
October	13	800
November	10	595
December	10	615
Total Reservation	(Av. 39 cfs)	28,267 af/y

See next pg

Boulder River at Contact

Month	CFS	AF/Y
January	50	3,075
February	50	2,875
March	50	3,075
April	50	2,975
May	150	9,220
June	1,080	64,265
July	380	23,365
August	170	10,450
September	110	6,545
October	85	5,225
November	50	2,975
December	50	3,075
Total Reservation	(Av. 189 cfs)	137,120 af/y

mouth - Hawley Cr
- 50.0 miles

Boulder River at Big Timber

Month	CFS	AF/Y
January	80	4,920
February	80	4,441
March	80	4,920
April	80	4,760
May	300	18,445
June	1,690	100,540
July	490	30,122
August	60	3,690
September	95	5,650
October	130	7,995
November	80	4,760
December	80	4,920
Total Reservation	(Av. 269 cfs)	195,163 af/y

BLUEWATER CREEK
Mouth to Headwaters
(USGS Gage No. 06207800)

14.3 miles

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	26.5	1,629
Feb.	27.5	1,527
Mar.	27.0	1,660
Apr.	28.0	1,666
May	27.0	1,660
Jun.	25.5	1,517
Jul.	24.0	1,476
Aug.	25.0	1,537
Sep.	26.0	1,547
Oct.	27.0	1,660
Nov.	27.0	1,607
Dec.	27.0	1,660
		19,146 AF/year

BRIDGER CREEK
Headwaters to Krone Ditch Headgate (USGS Site No. 40)

90th Percentile Jan.-Dec.

	Cfs	AF
Jan.	1.48	91
Feb.	1.48	82
Mar.	1.52	94
Apr.	4.77	284
May	25.3	1,556
Jun.	43.7	2,600
Jul.	3.44	212
Aug.	1.01	62
Sep.	1.01	60
Oct.	1.98	122
Nov.	2.46	146
Dec.	1.75	108
		5,417 AF/year

Headwaters - mouth

25.7 miles (est)

BUTCHER CREEK
Headwaters to West Butcher Creek

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	0.5	31
Feb.	0.6	33
Mar.	1.0	61
Apr.	1.6	95
May	3.7	228
Jun.	3.7	220
Jul.	1.1	68
Aug.	0.3	18
Sep.	0.5	30
Oct.	0.8	49
Nov.	0.7	42
Dec.	0.6	37

912 AF/year

BUTCHER CREEK
West Butcher Creek to Mouth

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	5.3	326
Feb.	10.2	566
Mar.	8.7	535
Apr.	12.7	756
May	18.4	1,131
Jun.	32.5	1,934
Jul.	50.0	3,074
Aug.	58.0	3,566
Sep.	36.0	2,142
Oct.	18.0	1,107
Nov.	8.8	524
Dec.	5.8	357

16,018 AF/year

CASTLE CREEK
Mouth to 1,500 ft. above Picket Pin Creek

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	9.2	566
Feb.	9.3	516
Mar.	10.6	652
Apr.	15.2	904
May	39.3	2,416
Jun.	56.5	3,362
Jul.	22.0	1,353
Aug.	10.0	615
Sep.	11.3	672
Oct.	13.8	848
Nov.	12.2	726
Dec.	10.2	627

13,257 AF/year

CLARKS FORK YELLOWSTONE RIVER[1]

mouth - Bluewater Cr. 32.4 miles

90th Percentile Oct.-May
70th Percentile June-Sep.

	Cfs	AF
Jan.	300.0	18,446
Feb.	299.0	16,606
Mar.	308.0	18,938
Apr.	357.0	21,243
May	1,051.0	64,623
Jun.	3,569.0	212,370
Jul.	1,537.0	94,506
Aug.	399.0	24,534
Sep.	393.0	23,385
Oct.	332.0	20,414
Nov.	401.0	23,861
Dec.	330.0	20,291

559,217 AF/year

[1]Measured at USGS gage No. 06208500 "Clarks Fork River at Edgar."

Bluewater Cr - State line - 138.9 m.

CLARKS FORK YELLOWSTONE RIVER[1]

90th Percentile Oct.-May
70th Percentile June-Sep.

	Cfs	AF
Jan.	186.0	11,437
Feb.	194.0	10,774
Mar.	189.0	11,621
Apr.	250.0	14,876
May	1,062.0	65,300
Jun.	3,477.0	206,896
Jul.	1,640.0	100,840
Aug.	423.0	26,009
Sep.	240.0	14,281
Oct.	117.0	7,194
Nov.	200.0	11,901
Dec.	229.0	14,081
		495,210 AF/year

[1]Measured at USGS gage No. 06207500 "Clarks Fork River near Belfry."

CLEAR CREEK
Headwaters to Mouth

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	9.8	602
Feb.	7.3	405
Mar.	14.0	861
Apr.	9.1	541
May	1.5	92
Jun.	1.4	83
Jul.	3.8	234
Aug.	7.8	480
Sep.	10.6	631
Oct.	39.1	2,404
Nov.	20.6	1,226
Dec.	13.1	805
		8,364 AF/year

DRY CREEK
Headwaters to Mouth

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	2.2	135
Feb.	2.7	150
Mar.	4.6	283
Apr.	3.7	220
May	1.5	92
Jun.	0.7	42
Jul.	0.4	24
Aug.	7.4	455
Sep.	10.6	631
Oct.	12.0	738
Nov.	2.6	155
Dec.	2.2	135
		3,060 AF/year

EAST FISHTAIL CREEK
West Fishtail Creek to its East Fork

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	1.2	74
Feb.	1.2	67
Mar.	1.5	92
Apr.	2.4	143
May	8.5	523
Jun.	9.5	565
Jul.	3.2	197
Aug.	1.4	86
Sep.	2.0	119
Oct.	1.7	104
Nov.	1.6	95
Dec.	1.3	80
		2,145 AF/year

East Boulder River at Mouth

Month	CFS	AF/Y
January	15	922
February	15	832
March	15	922
April	15	892
May	20	1,229
June	165	9,815
July	50	3,073
August	22	1,352
September	20	1,189
October	18	1,106
November	15	892
December	15	922
Total Reservation	(Av. 32 cfs	23,146 af/y

EAST ROSEBUD CREEK
Custer Nat'l Forest Boundary to W. Rosebud Creek

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	58.2	3,578
Feb.	58.4	3,243
Mar.	58.3	3,585
Apr.	73.2	4,356
May	296.2	18,213
Jun.	732.3	43,575
Jul.	317.2	19,504
Aug.	93.0	5,718
Sep.	52.6	3,130
Oct.	41.7	2,564
Nov.	62.4	3,713
Dec.	68.2	4,193
		115,372 AF/year

FISHTAIL CREEK
Confluence of East & West Fishtail Creeks to Mouth

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	4.1	252
Feb.	4.2	233
Mar.	4.9	301
Apr.	7.2	428
May	36.3	2,232
Jun.	51.5	3,064
Jul.	19.9	1,224
Aug.	9.0	553
Sep.	10.3	613
Oct.	6.0	369
Nov.	5.4	321
Dec.	4.5	277
		9,867 AF/year

LITTLE ROCKY CREEK
Mouth to Forest Service Road #1414 Crossing

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	0.3	18
Feb.	0.3	17
Mar.	0.4	24
Apr.	0.6	36
May	6.6	406
Jun.	7.2	428
Jul.	2.4	148
Aug.	1.0	61
Sep.	1.5	89
Oct.	0.4	24
Nov.	0.4	24
Dec.	0.3	18
		1,293 AF/year

LOWER DEER CREEK
Headwaters to I-90 (USGS Site No. 39)

90th Percentile Jan.-Dec.

	Cfs	AF
Jan.	3.09	190
Feb.	3.09	172
Mar.	3.12	192
Apr.	10.4	619
May	51.9	3,191
Jun.	101.0	6,010
Jul.	13.7	842
Aug.	4.55	280
Sep.	4.03	240
Oct.	4.28	263
Nov.	4.90	292
Dec.	3.61	222
		12,513 AF/year

PICKET PIN CREEK
Mouth to Mouth of Swamp Creek

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	2.0	123
Feb.	2.0	111
Mar.	2.4	148
Apr.	3.7	220
May	13.7	842
Jun.	16.6	988
Jul.	5.8	357
Aug.	2.5	154
Sep.	3.5	208
Oct.	2.9	178
Nov.	2.6	155
Dec.	2.2	135
		3,619 AF/year

RED LODGE CREEK
Custer Nat'l Forest to Cooney Reservoir

16.0 miles

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	11.0	676
Feb.	18.0	1,000
Mar.	21.5	1,322
Apr.	41.0	2,440
May	51.0	3,136
Jun.	77.0	4,582
Jul.	25.0	1,537
Aug.	22.0	1,353
Sep.	19.0	1,130
Oct.	25.5	1,568
Nov.	21.5	1,279
Dec.	11.5	707
		20,730 AF/year

ROCK CREEK (CLARKS FORK YELLOWSTONE)
Mouth to Custer National Forest
(USGS Gage No. 06209500)

46.3 miles

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	29.0	1,783
Feb.	27.0	1,500
Mar.	25.5	1,568
Apr.	30.0	1,785
May	113.0	6,948
Jun.	418.5	24,902
Jul.	326.5	20,076
Aug.	205.5	12,636
Sep.	108.5	6,456
Oct.	66.0	4,058
Nov.	45.0	2,678
Dec.	34.5	2,121
		86,511 AF/year

SAGE CREEK
Headwaters to Crow Reservation

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	2.3	141
Feb.	2.3	128
Mar.	2.8	172
Apr.	4.2	250
May	11.3	695
Jun.	13.3	791
Jul.	4.6	283
Aug.	2.0	123
Sep.	2.8	167
Oct.	3.3	203
Nov.	3.0	178
Dec.	2.5	154
		3,285 AF/year

Stillwater River at Mouth nr Absarokee
90%ile Flow

Month	CFS	AF/Y
January	200	12,294
February	205	11,382
March	210	12,909
April	225	13,385
May	560	34,425
June	2,075	123,447
July	1,030	63,318
August	480	29,507
September	480	28,555
October	380	23,360
November	225	13,385
December	225	13,831
Total Reservation	(Av. 524 cfs)	379,795 af/y

SWEET GRASS CREEK
Mouth to Forest Service Boundary (Gage No. 06200500)

90th Percentile Jan.-Dec.

	Cfs	AF
Jan.	8.0	492
Feb.	8.0	444
Mar.	8.0	492
Apr.	10.0	595
May	84.0	5,165
Jun.	252.0	14,995
Jul.	112.0	6,887
Aug.	41.0	2,521
Sep.	26.0	1,547
Oct.	20.0	1,230
Nov.	16.0	952
Dec.	10.0	615
		35,935 AF/year

UPPER DEER CREEK
Headwaters to a Point Upstream from I-90 Bridge (USGS Site No. 38)

90th Percentile Jan.-Dec.

	Cfs	AF
Jan.	3.06	188
Feb.	3.06	170
Mar.	3.08	189
Apr.	13.3	791
May	64.6	3,972
Jun.	130.0	7,736
Jul.	7.17	441
Aug.	2.25	138
Sep.	2.11	126
Oct.	4.23	260
Nov.	4.85	289
Dec.	3.57	220
		14,520 AF/year

West Boulder River at Mouth

Month	CFS	AF/Y
January	50	3,073
February	50	2,776
March	50	3,073
April	50	2,974
May (1-20)	50	1,983
May (21-31)	300	6,543
June	300	17,847
July (1-20)	300	11,898
July (21-31)	200	4,362
August	75	4,601
September	75	4,462
October	75	4,610
November	60	3,569
December	50	3,073
Total Reservation	(Av. 103 cfs)	74,853 af/y

WEST FISHTAIL CREEK
East Fishtail Creek to Richmond - Kennedy Ditch

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	0.9	55
Feb.	0.9	50
Mar.	1.1	68
Apr.	1.7	101
May	11.4	701
Jun.	13.4	797
Jul.	4.7	289
Aug.	2.0	123
Sep.	2.8	167
Oct.	1.2	74
Nov.	1.2	71
Dec.	1.0	61
		2,557 AF/year

WEST FORK STILLWATER RIVER
Mouth to Castle Creek

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	21.1	1,297
Feb.	21.3	1,183
Mar.	23.5	1,445
Apr.	32.8	1,952
May	135.5	8,332
Jun.	238.1	14,168
Jul.	104.1	6,401
Aug.	49.4	3,037
Sep.	45.1	2,684
Oct.	32.3	1,986
Nov.	28.0	1,666
Dec.	23.5	1,445
		45,596 AF/year

WEST FORK STILLWATER RIVER
Castle Creek to Sweetgrass/Stillwater County Line

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	8.5	523
Feb.	8.7	483
Mar.	9.9	609
Apr.	14.3	851
May	133.7	8,221
Jun.	234.5	13,954
Jul.	102.4	6,296
Aug.	48.6	2,988
Sep.	44.5	2,648
Oct.	12.8	787
Nov.	11.4	678
Dec.	9.5	584
		38,622 AF/year

WEST FORK STILLWATER RIVER
Sweetgrass/Stillwater County Line to Tumble Creek

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	3.0	184
Feb.	3.1	172
Mar.	3.6	221
Apr.	5.8	345
May	102.0	6,272
Jun.	210.0	12,496
Jul.	73.0	4,488
Aug.	28.0	1,722
Sep.	24.0	1,428
Oct.	5.0	307
Nov.	4.4	262
Dec.	3.4	209
		28,106 AF/year

WEST ROSEBUD CREEK
Custer Nat'l Forest Boundary to Fiddler Creek

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	38.2	2,349
Feb.	38.4	2,133
Mar.	41.6	2,558
Apr.	56.7	3,374
May	192.7	11,848
Jun.	358.4	21,326
Jul.	162.0	9,961
Aug.	77.9	4,790
Sep.	66.9	3,981
Oct.	59.2	3,640
Nov.	50.7	3,017
Dec.	42.8	2,632
		71,609 AF/year

WEST ROSEBUD CREEK 8.5 miles (est)
Fiddler Creek to Mouth

85th Percentile Jan.-Dec.

	Cfs	AF
Jan.	48.6	2,988
Feb.	48.8	2,710
Mar.	52.5	3,228
Apr.	70.9	4,219
May	180.9	11,123
Jun.	331.1	19,702
Jul.	149.7	9,205
Aug.	71.8	4,415
Sep.	62.4	3,713
Oct.	75.9	4,667
Nov.	64.6	3,844
Dec.	54.6	3,357
		73,171 AF/year

WILLOW CREEK
Forest Boundary to Cooney Reservoir

85th Percentile Jan.-Dec.

	Cfs	AF	
Jan.	6.0	369	
Feb.	4.0	222	
Mar.	9.0	553	
Apr.	16.0	952	
May	19.0	1,168	
Jun.	26.0	1,547	
Jul.	24.0	1,476	
Aug.	20.0	1,230	
Sep.	24.0	1,428	
Oct.	19.0	1,168	
Nov.	16.5	982	
Dec.	7.5	461	
		11,556	AF/year

YELLOWSTONE RIVER AT BILLINGS
(as modified by the Board
on November 21, 1980)

Month	CFS	AF
January	2,483	152,688
February	2,484	137,940
March	2,883	177,278
April	3,580	213,048
May (1-20)	5,121	203,132
May (21-31)	12,200	266,177
June (1-7)	17,236	239,306
June (8-30)	18,716	853,816
July (1-10)	10,274	203,781
July (11-31)	4,000	166,611
August	3,500	215,205
September	3,107	184,878
October	3,573	219,694
November	3,478	206,976
December	2,781	171,008
Average	4,989	3,611,538

Plus Dominant Discharge of 34,507 cfs +68,430 af/day for one 24-hour period

LOWER YELLOWSTONE BASIN

(Big Horn River to North Dakota State Line)

mouth - Afterbay i
84.3 miles

Bighorn River at its Mouth

Month	CFS	AF/Y
January	3,300	202,863
February	3,200	177,679
March	4,000	245,895
April	3,600	214,167
May	3,800	233,600
June	5,200	309,352
July (1-20)	3,800	150,710
July (21-31)	3,200	69,802
August	2,800	172,127
September	2,600	154,676
October	2,700	165,979
November	3,100	184,421
December	3,200	196,716
Total Reservation	3,422	2,477,987

HANGING WOMAN CREEK
East Fork to Tongue River (Gage No. 06307600) 4.5 miles

Historic Minimum Monthly Flows[1]

	Cfs	AF
Jan.	0.30	18.4
Feb.	0.60	33.3
Mar.	0.66	40.6
Apr.	0.61	36.3
May	0.52	32.0
Jun.	0.34	20.2
Jul.	0.01	0.6
Aug.	0.00	0.0
Sep.	0.00	0.0
Oct.	0.04	2.5
Nov.	0.18	10.7
Dec.	0.06	3.7
		198.3 AF/year

[1]Period of record September 1973 through September 1984. The 1934-82 common base period was not used on this stream.

OTTER CREEK
Bear Creek to Tongue River (Gage No. 06307740) 71.5 miles

Historic Minimum Monthly Flows[1]

	Cfs	AF
Jan.	1.67	102.7
Feb.	1.87	103.8
Mar.	2.65	162.9
Apr.	1.59	94.6
May	2.61	160.5
Jun.	2.14	127.3
Jul.	0.28	17.2
Aug.	0.08	4.9
Sep.	0.13	7.7
Oct.	0.40	24.6
Nov.	1.63	97.0
Dec.	2.05	126.0
		1,029.2 AF/year

[1]Period of record October 1972 through September 1984. The 1934-82 common base period was not used on this stream.

Powder River at its Mouth
(90%ile Flow Based on USGS Data at Locate)

Month	CFS	AF/Y
January	31.9	1961
February	71.8	3986
March	291	17,888
April	347	20,643
May	424	26,064
June	184	10,946
July	70	4303
August	14.5	891
September	8.87	527
October	9.43	579
November	61.6	3664
December	61	3749
Total	(Av. 131 cfs)	95,201 af/y

State line – mouth 217.5 miles

PUMPKIN CREEK
Deer Creek to Tongue River (Gage No. 06308400) 36.3 mile

Historic Minimum Monthly Flows[1]

	Cfs	AF
Jan.	0.00	0.0
Feb.	0.00	0.0
Mar.	0.01	0.6
Apr.	0.00	0.0
May	0.00	0.0
Jun.	0.00	0.0
Jul.	0.00	0.0
Aug.	0.00	0.0
Sep.	0.00	0.0
Oct.	0.00	0.0
Nov.	0.00	0.0
Dec.	0.00	0.0
		0.6 AF/year

[1]Period of record October 1972 through September 1984. The 1934-82 common base period was not used on this stream.

ROSEBUD CREEK
Cottonwood Creek to Yellowstone River (Gage No. 06296003)

80th Percentile Jan.-Dec. 23.0 miles

	Cfs	AF
Jan.	7.0	430
Feb.	18.0	1,000
Mar.	22.0	1,353
Apr.	36.0	2,142
May	28.0	1,722
Jun.	37.0	2,202
Jul.	9.0	553
Aug.	7.0	430
Sep.	2.0	119
Oct.	9.0	553
Nov.	10.0	595
Dec.	12.0	738
		11,837 AF/year

Tongue River
At Inlet to Present and/or Future Reservoir

Month	CFS	AF/Y
January	160	9,836
February	160	8,883
March	200	12,294
April	200	11,898
May (1-20)	700	27,762
May (21-31)	1,200	26,175
June	1,350	80,312
July	360	22,130
August	100	6,147
September	100	5,949
October	200	12,294
November	200	11,898
December	150	9,221
Total	(Av. 338 cfs)	244,799 af/y

State line - Tongue Reservoir 5.6 miles

Tongue River at the Yellowstone
(Minimum 75 cfs at its Mouth)

Month	CFS	AF/Y
January	75	4,611
February	75	4,164
March	75	4,611
April	75	4,462
May	75	4,611
June	75	4,462
July	75	4,611
August	75	4,611
September	75	4,462
October	75	4,611
November	75	4,462
December	75	4,611
Total Reservation	(Av. 75 cfs)	54,289 af/y

mouth - Tongue R. Dam - 189.1 miles

Yellowstone River at Miles City
(80%ile Flows Less Depletions through Miles City)

Month	CFS	AF/Y
January	3,829	235,400
February	3,998	221,995
March	6,359	390,929
April	5,848	347,957
May	12,280	754,904
June	26,188	1,557,980
July	10,278	631,856
August	3,862	237,415
September	4,338	266,682
October	5,849	359,578
November	5,508	327,730
December	4,009	246,466
Total Reservation	(Av. 7,705 cfs)	5,578,892 af/y

Yellowstone River at Sidney
(80%ile Less Depletions through Sidney)

Month	CFS	AF/Y
January	3,738	229,831
February	4,327	240,281
March	6,778	416,711
April	6,808	405,031
May	11,964	735,528
June	25,140	1,495,644
July	10,526	647,090
August	2,670	164,166
September	3,276	194,917
October	6,008	369,377
November	5,848	347,920
December	3,998	245,814
Total Reservation	(Av. 7,586 cfs)	5,492,310

Mouth to GNP
TOTAL miles = 558.1

DFWP Instream flow amounts allowed

HEADWATERS SUBBASIN

BIG HOLE RIVER DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
American Creek	Headwaters to mouth	Jan 1 - Dec 31	2.8
Bear Creek	Headwaters to mouth	Jan 1 - Dec 31	2.8
Big Hole River #1	Warm Springs Creek to Pintlar Creek	Jan 1 - Dec 31	160
Big Hole River #2	Pintlar Creek to the old Divide Dam	Jan 1 - Dec 31	800
Big Hole River #3	Old Divide Dam to mouth	Jan 1 - Dec 31	573
Big Lake Creek	Twin Lakes outlet to mouth	Jan 1 - Dec 31	4.7
Birch Creek	Mule Creek to mouth	Jan 1 - Dec 31	10
Bryant Creek	Headwaters to mouth	Jan 1 - Dec 31	1.4
California Creek	Headwaters to mouth	Jan 1 - Dec 31	10
Camp Creek	Headwaters to mouth	Jan 1 - Dec 31	5
Canyon Creek	Canyon Lake to mouth	Jan 1 - Dec 31	5
Corral Creek	Headwaters to mouth	Jan 1 - Dec 31	1
Deep Creek	Sevenmile and Tenmile to mouth	Jan 1 - Dec 31	18
Delano Creek	Headwaters to mouth	Jan 1 - Dec 31	0.3
Divide Creek	North and East forks to mouth	Jan 1 - Dec 31	3
Fishtrap Creek	West and Middle forks to mouth	Jan 1 - Dec 31	10
Francis Creek	Sand Creek to mouth	Jan 1 - Dec 31	4
French Creek	Headwaters to mouth	Jan 1 - Dec 31	3
Governor Creek	Headwaters to mouth	Jan 1 - Dec 31	4
Jacobsen Creek	Tahepia Lake to mouth	Jan 1 - Dec 31	14
Jerry Creek	Headwaters to mouth	Jan 1 - Dec 31	7
Johnson Creek	Schultz Creek to Forest Service boundary	Jan 1 - Dec 31	13
Joseph Creek	Anderson Creek to mouth	Jan 1 - Dec 31	5
LaMarche Creek	West and Middle forks to mouth	Jan 1 - Dec 31	11
Miner Creek	Upper Miner Lakes to mouth	Jan 1 - Dec 31	9
Moose Creek	Headwaters to mouth	Jan 1 - Dec 31	9
Mussigbrod Creek	Hell Roaring Creek to uppermost existing diversion point in NWSENW Section 9 T1S R16W	Jan 1 - Dec 31	10
NF Big Hole River	Ruby and Trail creeks to mouth	Jan 1 - Dec 31	30
Oregon Creek	Headwaters to mouth	Jan 1 - Dec 31	0.3
Pattengail Creek	Sand Lake to mouth	Jan 1 - Dec 31	12
Pintlar Creek	Oreamnos Lake to mouth	Jan 1 - Dec 31	10
Rock Creek	Beaverhead National Forest boundary to mouth	Jan 1 - Dec 31	5
Ruby Creek	Pioneer and WF Ruby creeks to mouth	Jan 1 - Dec 31	4
Sevenmile Creek	Headwaters to mouth	Jan 1 - Dec 31	1.8
Seymour Creek	Upper Seymour Lake to mouth	Jan 1 - Dec 31	13
Sixmile Creek	Headwaters to mouth	Jan 1 - Dec 31	1.6
SF Big Hole River	Skinner Lake to mouth	Jan 1 - Dec 31	22
Steel Creek	Headwaters to mouth	Jan 1 - Dec 31	6
Sullivan Creek	Headwaters to mouth	Jan 1 - Dec 31	4
Swamp Creek	Yank Swamp to mouth	Jan 1 - Dec 31	8
Tenmile Creek	Tenmile Lakes to mouth	Jan 1 - Dec 31	3.8
Trail Creek	Headwaters to mouth	Jan 1 - Dec 31	6
Trapper Creek	Trapper Lake to mouth	Jan 1 - Dec 31	1.8
Twelvemile Creek	Headwaters to mouth	Jan 1 - Dec 31	1.2
Warm Springs Creek	West and East forks to mouth	Jan 1 - Dec 31	5
Willow Creek	Tendoy Lake to mouth	Jan 1 - Dec 31	16
Wise River	Mono and Jacobson creeks to mouth	Jan 1 - Dec 31	20
Wyman Creek	Headwaters to mouth	Jan 1 - Dec 31	7

Table 2 (cont.)

GALLATIN RIVER DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Baker Creek	Heeb Lane Bridge to mouth	Jan 1 - Dec 31	14
Ben Hart Creek	Headwaters to mouth	Jan 1 - Dec 31	29
Big Bear Creek	Headwaters to mouth	Jan 1 - Dec 31	2
Bridger Creek	Headwaters to mouth	Jan 1 - Dec 31	14
Cache Creek	Headwaters to mouth	Jan 1 - Dec 31	2.6
EF Hyalite Creek	Heather Lake to Hyalite Reservoir	Jan 1 - Dec 31	7
East Gallatin River #1	Rocky and Sourdough cks to Bozeman STP outlet	Jan 1 - Dec 31	42.4
East Gallatin River #2	Bozeman STP outlet to Thompson Spring Creek	Jan 1 - Dec 31	90
East Gallatin River #3	Thompson Spring Creek to mouth	Jan 1 - Dec 31	170
Gallatin River #1	Yellowstone NP boundary to WF Gallatin River	Jan 1 - Dec 31	170
Gallatin River #2	WF Gallatin River to East Gallatin River	Jan 1 - Dec 31	400
Gallatin River #3	East Gallatin River to mouth	Jan 1 - Dec 31	533.5
Hell Roaring Creek	NF Hell Roaring Creek to mouth	Jan 1 - Dec 31	16
Hyalite (Middle) Creek #1	Middle Creek Dam to Middle Creek Ditch intake	Jan 1 - Dec 31	28
Hyalite (Middle) Creek #2	I-90 bridge near Belgrade to mouth	Jan 1 - Dec 31	16
MF of the WF Gallatin R.	Headwaters to NF of the WF Gallatin River	Jan 1 - Dec 31	3
Porcupine Creek	NF Porcupine Creek to mouth	Jan 1 - Dec 31	4.5
Reese Creek	Bill Smith Creek to mouth	Jan 1 - Dec 31	5
Rocky Creek	Jackson Creek to Sourdough Creek	Jan 1 - Dec 31	18
Sourdough (Bozeman) Ck.	Mystic Reservoir to mouth	Jan 1 - Dec 31	11
South Cottonwood Creek	Jim Creek to Hart Ditch headgate	Jan 1 - Dec 31	14
SF Spanish Creek	Falls Creek to mouth	Jan 1 - Dec 31	15
SF of the WF Gallatin R.	Headwaters to mouth	Jan 1 - Dec 31	5
Spanish Creek	North and South forks to mouth	Jan 1 - Dec 31	70
Squaw Creek	Headwaters to mouth	Jan 1 - Dec 31	12
Taylor Fork	Tumbledown Creek to mouth	Jan 1 - Dec 31	36
Thompson Spring Creek	County road crossing in T1N R5E Sec 30 to mouth	Jan 1 - Dec 31	29
WF Gallatin River	Middle and North forks to mouth	Jan 1 - Dec 31	26
WF Hyalite Creek	Hyalite Lake to Hyalite Reservoir	Jan 1 - Dec 31	12

JEFFERSON AND BOULDER RIVER DRAINAGES

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Boulder River #1	West and South forks to High Ore Creek	Jan 1 - Dec 31	20
Boulder River #2	High Ore Creek to Cold Spring	Jan 1 - Dec 31	8
Boulder River #3	Cold Spring to mouth	Jan 1 - Dec 31	47
Halfway Creek	Headwaters to canyon	Jan 1 - Dec 31	1.9
Hells Canyon Creek	Headwaters to mouth	Jan 1 - Dec 31	3.6
Jefferson River	Headwaters to Madison River	Jan 1 - Dec 31	1,095.5
Little Boulder River	Moose Creek to mouth	Jan 1 - Dec 31	7
North Willow Creek	Hollow Top Lake to mouth	Jan 1 - Dec 31	7
South Boulder River	Curly Creek to mouth	Jan 1 - Dec 31	12
South Willow Creek	Granite Lake to mouth	Jan 1 - Dec 31	14
Whitetail Creek	Whitetail Reservoir to mouth	Jan 1 - Dec 31	3
Willow Creek	North and South Willow creeks to mouth	Jan 1 - Dec 31	14
Willow Spring Creek	Headwaters to mouth	Jan 1 - Dec 31	9.2

Table 2 (cont.)

MADISON RIVER DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Antelope Creek	Headwaters to mouth	Jan 1 - Dec 31	14
Beaver Creek	Wyethia Creek to Earthquake Lake	Jan 1 - Dec 31	22
Black Sand Spring Creek	Black Sand Spring to SF Madison River	Jan 1 - Dec 31	18.7
Blaine Spring Creek	Ennis National Fish Hatchery to mouth	Jan 1 - Dec 31	23
Cabin Creek	Gully Creek to Madison River	Jan 1 - Dec 31	22
Cherry Creek	Headwaters to mouth	Jan 1 - Dec 31	15
Cougar Creek	Yellowstone NP boundary to mouth	Jan 1 - Dec 31	24
Duck Creek	Yellowstone NP boundary to Hebgen Reservoir	Jan 1 - Dec 31	23
Elk River	Headwaters to mouth	Jan 1 - Dec 31	28
Grayling Creek	Yellowstone NP boundary to Hebgen Reservoir	Jan 1 - Dec 31	34
Hot Springs Creek	North and Middle forks to mouth	Jan 1 - Dec 31	5.5
Indian Creek	Raw Liver Creek to mouth	Jan 1 - Dec 31	48
Jack Creek	Lone Creek to mouth	Jan 1 - Dec 31	24
Madison River #1	Yellowstone NP boundary to Hebgen Reservoir	Jan 1 - Dec 31	245
Madison River #2	Hebgen Dam to West Fork	Jan 1 - Dec 31	502.5
Madison River #3	West Fork to Ennis Reservoir	Jan 1 - Dec 31	716
Madison River #4	Ennis Dam to mouth	Jan 1 - Dec 31	825
Moore Creek	Fletcher Creek to mouth	Jan 1 - Dec 31	1.4
North Meadow Creek	Headwaters to mouth	Jan 1 - Dec 31	18
O'Dell Creek	Headwaters to mouth	Jan 1 - Dec 31	98
Red Canyon Creek	Headwaters to Hebgen Reservoir	Jan 1 - Dec 31	2.9
Ruby Creek	Beartrap Canyon to mouth	Jan 1 - Dec 31	18
SF Madison River	Dry Canyon to Hebgen Reservoir	Jan 1 - Dec 31	92
Squaw Creek	North Fork to mouth	Jan 1 - Dec 31	14
Standard Creek	Headwaters to mouth	Jan 1 - Dec 31	10
Trapper Creek	Headwaters to Hebgen Reservoir	Jan 1 - Dec 31	3.2
Watkins Creek	Coffin Creek to Hebgen Reservoir	Jan 1 - Dec 31	5.5
WF Madison River	Fox Creek to mouth	Jan 1 - Dec 31	42

RED ROCK-BEAVERHEAD DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Bear Creek	Headwaters to BLM boundary	Jan 1 - Dec 31	6.5
Beaverhead River #1	Clark Canyon to East Bench Div Dam at Barretts	Jan 1 - Dec 31	200
Beaverhead River #2	East Bench Diversion Dam at Barretts to mouth	Jan 1 - Dec 31	200
Big Sheep Creek	Cabin and Nicholia creeks to mouth	Jan 1 - Dec 31	33
Black Canyon Creek	Headwaters to mouth	Jan 1 - Dec 31	2.5
Blacktail Deer Creek	MF and WF to uppermost existing diversion point in SENENE Section 29 T8S R8W	Jan 1 - Dec 31	27
Bloody Dick Creek	Swift Lake outlet to mouth	Jan 1 - Dec 31	20
Browns Canyon Creek	Headwaters to mouth	Jan 1 - Dec 31	2.3
Cabin Creek	Headwaters to mouth	Jan 1 - Dec 31	0.4
Corral Creek	Headwaters to mouth	Jan 1 - Dec 31	6
Deadman Creek	Deadman Lake to mouth	Jan 1 - Dec 31	4.5
EF Blacktail Deer Creek	Headwaters to mouth	Jan 1 - Dec 31	18
EF Clover Creek	Headwaters to mouth	Jan 1 - Dec 31	4.4
EF Dyce Creek	Headwaters to mouth	Jan 1 - Dec 31	1.4
Frying Pan Creek	Headwaters to mouth	Jan 1 - Dec 31	1.6
Grasshopper Creek	Blue Creek to mouth	Jan 1 - Dec 31	25.8
Hell Roaring Creek	Headwaters to mouth	Jan 1 - Dec 31	15
Horse Prairie Creek	Headwaters to mouth	Jan 1 - Dec 31	20
Indian Creek	Headwaters to mouth	Jan 1 - Dec 31	0.2
Jones Creek	Headwaters to Lakeview Road crossing	Jan 1 - Dec 31	1.9
Long Creek	Jones Creek to mouth	Jan 1 - Dec 31	3.4

RED ROCK-BEAVERHEAD DRAINAGE (continued)

Medicine Lodge Creek	Bear Canyon to mouth	Jan 1 - Dec 31	10
Narrows Creek	Spring in T13S R1E Sec18A to Elk Lake	May 1 - July 15	1.2
		July 16 - Apr 30	0.5
Odell Creek	Headwaters to Lower Red Rock Lake	Jan 1 - Dec 31	11
Peet Creek	Headwaters to reservoir in T14S R4W Sec34A	Jan 1 - Dec 31	0.9
Poindexter Slough	Springs & canal T8S R9W Sec3,SW to Beaverhead	Jan 1 - Dec 31	57.9
Rape Creek	Headwaters to reservoir in T10S R13W Sec4	Jan 1 - Dec 31	0.4
Red Rock Creek	Headwaters to Upper Red Rock Lake	Jan 1 - Dec 31	15
Red Rock River #1	Dam at Lower Red Rock Lake to Lima Reservoir	Jan 1 - Dec 31	55
Red Rock River #2	Lima Dam to Clark Canyon Reservoir	Jan 1 - Dec 31	60
Reservoir Creek	Headwaters to mouth	Jan 1 - Dec 31	1.5
Shenon Creek	Headwaters to BLM boundary in T10S R14W Sec25	Jan 1 - Dec 31	0.4
Simpson Creek	Headwaters to mouth	Jan 1 - Dec 31	0.7
Tom Creek	Headwaters to Upper Red Rock Lake	Jan 1 - Dec 31	1.4
Trapper Creek	Headwaters to mouth	Jan 1 - Dec 31	0.7
WF Blacktail Deer Creek	Grays and South forks to mouth	Jan 1 - Dec 31	3
WF Dyce Creek	Headwaters to mouth	Jan 1 - Dec 31	0.7

RUBY RIVER DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Coal Creek	Headwaters to mouth	Jan 1 - Dec 31	3.6
Cottonwood Creek	Geyser Creek to mouth	Jan 1 - Dec 31	4
EF Ruby River	Headwaters to mouth	Jan 1 - Dec 31	3
MF Ruby River	Divide Creek to mouth	Jan 1 - Dec 31	5
Mill Creek	Outlet of Branham Lake to mouth	Jan 1 - Dec 31	10
NF Greenhorn Creek	Headwaters to mouth	Jan 1 - Dec 31	3.5
Ruby River #1	East, Middle, and West forks to Ruby Reservoir	Jan 1 - Dec 31	90
Ruby River #2	Ruby Dam to mouth	Jan 1 - Dec 31	40
Warm Springs Creek	Romy Lake outlet to mouth	Jan 1 - Dec 31	48.5
WF Ruby River	Headwaters to mouth	Jan 1 - Dec 31	3.0
Wisconsin Creek	Crystal Lake outlet to mouth	Jan 1 - Dec 31	6

UPPER MISSOURI SUBBASIN

UPPER MISSOURI RIVER AND TRIBUTARIES

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Avalanche Creek	Cooney Gulch to Canyon Ferry Reservoir	Jan 1 - Dec 31	5
Beaver Creek	Headwaters in Elkhorn Mts to Canyon Ferry Reservoir	Jan 1 - Dec 31	2.8
Beaver Creek	Headwaters in Big Belt Mts to mouth	Jan 1 - Dec 31	10.0
Canyon Creek	Headwaters to mouth	Jan 1 - Dec 31	10.0
Confederate Gulch	Debauch Gulch to mouth	Jan 1 - Dec 31	5
Cottonwood Creek	Headwaters to mouth	Jan 1 - Dec 31	1.0
Crow Creek	Tizer and Wilson Creeks to Williams Ditch intake	Jan 1 - Dec 31	11
Deep Creek	Castle Fork to Missouri River	Jan 1 - Dec 31	9
Dry Creek	Headwaters to Broadwater Missouri Canal	Jan 1 - Dec 31	1.8
Duck Creek	Headwaters to Canyon Ferry Res.	Jan 1 - Dec 31	8
Little Prickly Pear Ck. #1	Canyon Creek to Clark Creek	Jan 1 - Dec 31	22
Little Prickly Pear Ck. #2	Clark Creek to mouth	Jan 1 - Dec 31	70
Lyons Creek	Headwaters to mouth	Jan 1 - Dec 31	10.0
McGuire Creek	Headwaters to mouth	May 1 - Nov 30	8.3
		Dec 1 - Apr 30	4.7
Missouri River #1	Jefferson and Madison rivers to Canyon Ferry Res.	Jan 1 - Dec 31	2,400
Missouri River #2	Hauser Dam to Holter Reservoir	Jan 1 - Dec 31	2,881

UPPER MISSOURI RIVER AND TRIBUTARIES (continued)

Missouri River #3	Holter Dam to Great Falls	Jan 1 - Dec 31	3,327
Prickly Pear Creek #1	Rabbit Gulch to Hwy 12 bridge in East Helena	Jan 1 - Dec 31	22
Prickly Pear Creek #2	Hwy 12 bridge in East Helena to Lake Helena	Jan 1 - Dec 31	30
Sevenmile Creek	Greenhorn Creek and Skelly Gulch to mouth	Jan 1 - Dec 31	1.0
Sheep Creek	Headwaters to mouth	Jan 1 - Dec 31	35
Sheep Creek	Headwaters of South Fork to mouth	Jan 1 - Dec 31	22
Silver Creek	Helena Valley Irrigation Canal to mouth	May 1 - Nov 30	13.0
		Dec 1 - Apr 30	5.4
Sixteenmile Creek	Billy Creek to mouth	Jan 1 - Dec 31	20
Spokane Creek	Helena Valley Irr. Canal to mouth	May 1 - Nov 30	4.0
		Dec 1 - Apr 30	3.0
Stickney Creek	North and South forks to mouth	Apr 1 - Apr 30	7
		May 1 - May 31	34
		June 1 - June 30	35
		July 1 - July 31	7
Tenmile Creek	Headwaters to mouth	Jan 1 - Dec 31	12.0
Trout Creek	Springs near Vigilante Campground to mouth	Jan 1 - Dec 31	15.0
Virginia Creek	Headwaters to mouth	Jan 1 - Dec 31	6.0
Wegner Creek	Headwaters to mouth	Apr 1 - Apr 30	8
		May 1 - May 31	41
		June 1 - June 30	38
		July 1 - July 31	8
Willow Creek	Headwaters to mouth	Jan 1 - Dec 31	3.5
Wolf Creek	Headwaters to mouth	Jan 1 - Dec 31	7.0

DEARBORN RIVER DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Dearborn River	Headwaters to mouth	Jan 1 - Dec 31	110
Flat Creek	Headwaters to mouth	Jan 1 - Dec 31	7.5
MF Dearborn River	Headwaters to mouth	Jan 1 - Dec 31	9.5
SF Dearborn River	Headwaters to mouth	Jan 1 - Dec 31	11.5

SMITH RIVER DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Big Birch Creek	Headwaters to mouth	Jan 1 - Dec 31	11
Eagle Creek	Headwaters to mouth	Jan 1 - Dec 31	2.5
Hound Creek	EF Hound Creek and Middle Creek to mouth	Jan 1 - Dec 31	35
Newlan Creek	Headwaters to mouth	Jan 1 - Dec 31	3.8
NF Deep Creek	Headwaters to rock cascades	Jan 1 - Dec 31	1.0
NF Smith River	Headwaters to mouth	Jan 1 - Dec 31	9
Rock Creek	Headwaters to mouth	Jan 1 - Dec 31	11
Smith River #1	North and South Forks Sheep Creek	Jan 1 - Dec 31	78.5
Smith River #2	Sheep Creek to Hound Creek	Jan 1 - Dec 31	150
Smith River #3	Hound Creek to mouth	Jan 1 - Dec 31	80
SF Smith River	Headwaters to mouth	Jan 1 - Dec 31	7
Tenderfoot Creek	Headwaters to mouth	Jan 1 - Dec 31	15

Table 2 (cont.)

SUN RIVER DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Elk Creek	Headwaters to mouth	Jan 1 - Dec 31	16
Ford Creek	Headwaters to mouth	Jan 1 - Dec 31	12
NF Willow Creek	Headwaters to mouth	Jan 1 - Dec 31	3.0
Sun River #1	Diversion Dam to Elk Creek	Jan 1 - Dec 31	100
Sun River #2	Elk Creek to mouth	Jan 1 - Dec 31	130
Willow Creek	Headwaters to mouth	Jan 1 - Dec 31	3

BELT CREEK DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Belt Creek #1	Headwaters to Big Otter Creek	Jan 1 - Dec 31	90
Belt Creek #2	Big Otter Creek to Missouri River	Jan 1 - Dec 31	35
Big Otter Creek	Whiskey Spring Coulee to Belt Creek	Jan 1 - Dec 31	5
Dry Fork Belt Creek	Galena and Oti Park Creek to Belt Creek	Jan 1 - Dec 31	7
Logging Creek	Headwaters to Belt Creek	Jan 1 - Dec 31	6
Pilgrim Creek	Headwaters to Belt Creek	Jan 1 - Dec 31	8
Tillinghast Creek	Headwaters to Belt Creek	Jan 1 - Dec 31	5.5

MIDDLE MISSOURI SUBBASIN

MIDDLE MISSOURI RIVER AND TRIBUTARIES

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Cow Creek	NF and SF to County bridge	Jan 1 - Dec 31	4.5
Highwood Creek	Headwaters to Hwy 228 Bridge at Highwood	Jan 1 - Dec 31	10
Missouri River #4	Great Falls to Maris River	Jan 1 - Dec 31	3,876
Missouri River #5	Marias River to Judith River	Jan 1 - Dec 31	4,280
Missouri River #6	Judith River to upper end of Fort Peck Reservoir	Jan 1 - Dec 31	4,652
Shonkin Creek	Forest boundary to town of Shonkin	Jan 1 - Dec 31	7

FORT PECK RESERVOIR TRIBUTARIES

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Big Dry Creek	Hwy 200 bridge to mouth	Mar 15 - Mar 31	300
		Apr 1 - Apr 30	100
		May 1 - May 31	35
		June 1 - Oct 31	5.5
Little Dry Creek	Whiteside ranch house to Big Dry Creek	Mar 15 - Mar 31	110
		Apr 1 - Apr 30	42
		May 1 - May 31	17
		June 1 - Oct 31	3.5

JUDITH RIVER DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Beaver Creek	West Fork to Cottonwood Creek	Jan 1 - Dec 31	5
Big Spring Creek #1	Fish hatchery to Cottonwood Creek	Jan 1 - Dec 31	53.5
Big Spring Creek #2	Cottonwood Creek to mouth	Jan 1 - Dec 31	100
Cottonwood Creek	Spring Branch of Cottonwood Ck. to Big Spring Ck.	Jan 1 - Dec 31	4.5
East Fork Big Spring Ck.	Headwaters to Big Spring Creek	Jan 1 - Dec 31	7.5
Judith River #1	SF and MF to Big Spring Creek	Jan 1 - Dec 31	25
Judith River #2	Big Spring Creek to Missouri River	Jan 1 - Dec 31	160
Lost Fork Judith River	SF and WF to MF Judith River	Jan 1 - Dec 31	14
Middle Fork Judith River	Headwaters to South Fork	Jan 1 - Dec 31	22
South Fork Judith River	Headwaters to Middle Fork	Jan 1 - Dec 31	3.5
Warm Spring Creek	Springs to Judith River	Jan 1 - Dec 31	110
Yogo Creek	Headwaters to MF Judith River	Jan 1 - Dec 31	3

MUSSELSHELL RIVER DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Alabaugh Creek	Headwaters to mouth	Jan 1 - Dec 31	12
American Fork Creek	South Fork to mouth	Jan 1 - Dec 31	5.5
Big Elk Creek	Origin at Lebo Fork to mouth	Jan 1 - Dec 31	9.5
Careless Creek	Headwaters to Roberts Creek	Jan 1 - Dec 31	2
Checkerboard Creek	East and West Forks to mouth	Jan 1 - Dec 31	6
Collar Gulch Creek	Headwaters to mouth	Jan 1 - Dec 31	0.6
Cottonwood Creek	WF, MF, and Loco Creek to mouth	Jan 1 - Dec 31	16
Flatwillow Creek	NF and SF to Petrolia Reservoir	Jan 1 - Dec 31	15
Musselshell River #1	NF and SF to Deadmans Basin Div	Jan 1 - Dec 31	80
Musselshell River #2	Deadmans Basin Div to Musselshell Div	Jan 1 - Dec 31	80
Musselshell River #3	Musselshell Diversion Dam at town of Musselshell to mouth	Jan 1 - Dec 31	70
NF Musselshell #1	Headwaters to Bair Reservoir	Jan 1 - Dec 31	3
NF Musselshell #2	Bair Reservoir to SF Musselshell R.	Jan 1 - Dec 31	16
SF Musselshell	Headwaters to North Fork	Jan 1 - Dec 31	30
Spring Creek	Headwaters to mouth	Jan 1 - Dec 31	8
Swimming Woman Ck.	Headwaters to Cty road crossing 8 linear miles upstream from mouth	Jan 1 - Dec 31	2.5

MARIAS/TETON SUBBASIN

MARIAS RIVER DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Badger Creek	N and S Badger creeks to Forest/ Blackfeet Reservation Boundary	Jan 1 - Dec 31	60
Birch Creek	Swift Reservoir to Hwy 358	Jan 1 - Dec 31	64
Cut Bank Creek	Blackfeet Reservation boundary to mouth	Jan 1 - Dec 31	75
Dupuyer Creek	Headwaters to mouth	Jan 1 - Dec 31	12
Marias River #1	Two Medicine River and Cut Bank Creek to head of Tiber Reservoir	Jan 1 - Dec 31	200
Marias River #2	Tiber Dam to Circle Bridge (Hwy 223)	Jan 1 - Dec 31	419.5
Marias River #3	Circle Bridge (Hwy 223) to mouth	Jan 1 - Dec 31	488.5
North Badger Creek	Headwaters to mouth	Jan 1 - Dec 31	14
NF Dupuyer Creek	Headwaters to mouth	Jan 1 - Dec 31	12
South Badger Creek	Headwaters to mouth	Jan 1 - Dec 31	40
SF Dupuyer Creek	Headwaters to mouth	Jan 1 - Dec 31	6
SF Two Medicine River	Headwaters to Forest/Blackfeet Reservation Boundary	Jan 1 - Dec 31	16

Table 2 (cont.)

TETON RIVER DRAINAGE

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (cfs)
Deep Creek	Headwaters to mouth	Jan 1 - Dec 31	18
McDonald Creek	Headwaters to mouth	Jan 1 - Dec 31	10
NF Deep Creek	Headwaters to mouth	Jan 1 - Dec 31	7.2
SF Deep Creek	Headwaters to mouth	Jan 1 - Dec 31	6.9
Spring Creek	Headwaters to mouth	Jan 1 - Dec 31	4.5
Teton River	Headwaters to discharge from Priest Butte Lake	Jan 1 - Dec 31	35

LAKES AND SWAMPS

STREAM	REACH DESCRIPTION	DATES GRANTED	AMOUNT ALLOWED (af/yr)
Bean Lake	Sec. 18C and 19B, T18N, R6W, Sec. 13D and 24A, T18N, R7W	Jan 1 - Dec 31	2,649
Antelope Butte Swamp	North 1/2 Sec. 28, T26N, R8W	Jan 1 - Dec 31	460

TABLE 2
SUMMARY OF RESERVATIONS GRANTED TO THE
BUREAU OF LAND MANAGEMENT

STREAM	LOCATION	STREAM MILES WITHIN PUBLIC LANDS	YEAR-ROUND AMOUNT (CFS)	INSTANTANEOUS PEAK DISCHARGE AMOUNT (CFS)
Deep Creek	T2N-R12W-S20	.9	18	500
Bear Creek	T2N-R12W-S34	1.1	2.5	50
Canyon Creek	T2S-R9W-S6	.9	5.0	110
Moose Creek	T2S-R9W-S13&23 T1S-R8W-S7,8,9&18	5.5	8	70
Camp Creek	T2S-R8W-S2,9, 10,11,17,19&20	6.5	5	50
Willow Creek	T4S-R9W-S31&32	1.9	12	130
East Fork Dyce Creek	T6S-R12W-S14, 23,26&35	3.75	1.4	9
West Fork Dyce Creek	T6S-R12W-S14, 22,23&26	3.8	.7	5
Bloody Dick Ck.	T9S-R15W-S23	1	20	270
Medicine Lodge Creek	T12S-R12W-S13 T13S-R12W-S2&26	1	9	50
Rape Creek	T10S-R13W-S21&28	1	.4	5
Shenon Creek	T10S-R13W-S29,30, 32&33; T10S-R14W-S25	3.5	.4	13
Black Canyon Creek	T11S-R14W-S19,20, 21	2.8	2.5	35
Bear Creek (Horse Prarie Creek Drainage)	T10S-R15W-S34	1.3	1	50
Trapper Creek	T10S-R15W-S34	1.3	.7	10
Frying Pan Ck.	T10S-R25W-S22,27&28	1	1.5	35

TABLE 2 (cont.)

STREAM	LOCATION	STREAM MILES WITHIN PUBLIC LANDS	YEAR-ROUND AMOUNT (CFS)	INSTANTANEOUS PEAK DISCHARGE AMOUNT (CFS)
Cabin Creek	T14S-R12W-S1&12	1.3	.4	4
Indian Creek	T14S-R12W-S24	1.3	.2	5
Simpson Creek	T14S-R12W-S25&30	0.8	.7	5
Deadman Creek	T15S-R10W-S22	2.0	4.5	50
Big Sheep Ck.	T13S-R9W-S30 T13S-R10W-S25,35&36 T14S-R10W-S2,10,15,22&34 T15S-R10W-S3,10&22	10.0	32.5	300
North Fork Greenhorn Creek	T8-R4W-S13&24	1.3	3.5	35
Jones Creek	T14S-R3W-S33	1.1	1.9	20
Peet Creek	T15S-R4W-S3&10 T14S-R4W-S34	2.25	.9	30
Corral Creek	T14S-R1E-S22&27	1.5	2.5	20
Odell Creek	T14S-R1W-S31	0.8	11	225
Long Creek	T13S-R4W-S1&2	3.9	3.4	110
Hellroaring Ck.	T14S-R1E-S35&26	0.75	15	250
Tom Creek	T14S-R1E-S32	1.2	1.4	25
East Fork Blacktail Deer Creek	T11S-R5W-S27,34&35	3.4	18	215
West Fork Blacktail Deer Creek	T12S-R6W-S35	2.5	1	25

DHES

STREAM	cfs	Amount Acre-Feet/Year
Missouri River at Toston	2,596	1,879,504
Missouri River at Ulm	3,204	2,319,696
Missouri River at Virgelle	4,390	3,178,360
Missouri River at Landusky	4,815	3,486,060

2. In order to guarantee the quality of Missouri River water for all beneficial uses, the DHES instream flow reservation is granted with priority ahead of other reservations granted except municipalities.

3. The DHES reservation is subject to water rights established prior to July 1, 1985.

4. The DHES instream flow reservation shall run concurrently with any other non-consumptive water rights including but not limited to all hydropower rights and other instream flow reservations.

5. In a proceeding for application for a water use permit or application for a change in appropriation right, the reservation of DHES would not be adversely affected and DHES cannot object if the minimum flow for the purposes of maintaining water quality is not diminished at the 4 points of measure as granted herein.

6. The DHES reservation shall have no force and effect in any basin, subbasin, drainage, subdrainage, stream, or single source of supply for the period of time and for any class of uses for which permit applications are precluded.

TABLE 1

Montana Department of Fish, Wildlife and Parks Instream Reservations.

Stream	Reach	Dates	Amount (cfs)	Amount (af)	(af/yr)
Milk River Subbasin					
Battle Creek	International boundary to mouth	Jan., Feb., Mar., Dec., Apr. through Nov.	2.0 5.0	480 2,420	2,900
Beaver Creek (Hill County)	Reservation boundary to Beaver Creek Reservoir	Year-round	7.0	5,068	5,068
Beaver Creek #1 (Phillips Co.)	Headwaters to reservation boundary	Year-round	0.2	145	145
Beaver Creek #2 (Phillips County)	Highway 191 to mouth	Jan., Feb., Mar., Dec. Apr. through Nov.	7.0 11.0	1,679 5,324	7,003
Clear Creek	Headwaters to Clear Creek Road	Year-round	5.0	3,620	3,620
Frenchman River	International boundary to mouth	Jan., Feb., Mar., Dec. Apr. through Nov.	2.0 5.0	480 2,420	2,900
Little Box Elder Creek	Headwaters to Clear Creek Road	Year-round	1.0	724	724
Peoples Creek	Headwaters to Barney Olson Road	Year-round	1.0	724	724
Rock Creek	International boundary to mouth	Jan., Feb., Mar., Dec. Apr. through Nov.	2.0 8.0	480 3,872	4,352
Lower Missouri River Subbasin					
Missouri River #7	Fort Peck Dam to Milk River	Year-round	4,508		3,263,500
Missouri River #8	Milk River to state line	Year-round	5,178		3,748,500
East Fork Poplar River	International boundary to Middle Fork	Jan., Feb., Mar., Dec. April May June through Nov.	3.0 15 10 4	719 893 615 1,452	3,679
Middle Fork Poplar River	International boundary to East Fork	Jan., Feb., Mar., Dec. April May June through Nov.	1.0 30.0 20.0 2.0	239 1,785 1,230 726	3,980
Poplar River	Junction of Middle and East Forks to reservation boundary	Jan., Feb., Mar., Dec. April May June through Nov.	8.0 70.0 50.0 11.0	1,920 4,165 3,074 3,993	13,152
West Fork Poplar River	County bridge south of Peerless to reservation boundary	Jan., Feb., Mar., Dec. April May June through Nov.	3.0 30.0 20.0 4.0	719 1,785 1,230 1,452	5,186
Redwater River #1	Circle to East Redwater Creek	Jan., Feb., Mar., Dec. Apr. through Nov.	2.0 3.0	480 1,452	1,932
Redwater River #2	East Redwater Creek to mouth	Jan., Feb., Mar., Dec. Apr. through Nov.	2.0 4.0	480 1,936	2,416
Little Missouri River Subbasin					
Beaver Creek (Wibaux County)	Lamesteer Creek to state line	Jan., Feb., Mar., Dec. Apr. through Nov.	1.0 0.7	239 340	579
Boxelder Creek	One mile west of Belltower to state line	Jan., Feb., Mar., Dec. Apr. through Nov.	4.0 7.0	960 3,388	4,348
Little Beaver Creek	Russell Creek to state line	Year-round	3.0	2,171	2,171
Little Missouri River	Montana-Wyoming border to Montana-South Dakota border	Jan., Feb., Mar., Dec. Apr. through Nov.	5.0 8.0	1,199 3,872	5,071

af - acre-feet af/yr - acre-feet per year cfs - cubic feet per second

Appendix A. Features of Montana Fish, Wildlife & Parks Instream Water Leases – January, 2002

SOURCE	LESSOR	LEASE TERM/EXP.	PRIORITY OF RIGHT	QUANTITY LEASED	PERIOD OF USE	COST
Mill Creek	Mill Creek Water and Sewer District	10 years Aug. 1, 2003	95 rights with various priorities	41.4 cfs	48-60 hours in Aug. Diversion shut off after 10-day notice from FWP	$12, 750 per year[1]
Mill Creek	Individual	10 years April 1, 2003	June 30, 1880; June 1, 1903	2.0 cfs (1880) and 4.13 cfs (1903) (salvaged water)	May 1 -October 4	$7,500 per year
Blanchard Creek	Individual	10-year renewal June 20, 2009	May 11, 1913 (first right on stream)	3.0 cfs	April 15 -October 15	$2,000 per year
Tin Cup Creek	Six individuals	5-year renewal March 28, 2005	August 1, 1883 (first right on stream)	2.28 cfs April 1-April 14 4.32 cfs April 15-April 30 4.72 cfs May 1-October 19	April 1- November 4	$6,260 per year
Cedar Creek	US Forest Service	10 years Sep. 20, 2005	April 1, 1890; April 1, 1893; April 1898; April 1, 1904; April 7, 1972 (high water rights only)	6.77 cfs May 1-July 15[2] 6.39 cfs July 16-July 31 9.64 cfs August 1-August 31 6.39 cfs Sept 1 - October 15	May 1-October 15	$1.00 per year
Hells Canyon Creek	Three individuals	20 years Apr. 1, 2016	December 31, 1884 (first right on stream), August 23, 1889; August 29, 1912	1.12 cfs (salvaged water)	April 1- November 4	$45,000 - One-time payment
Mill Creek	Individual	10 years May 1, 2006	June 1, 1891	2.64 cfs (salvaged water)	May 1-October 19	$4,200 per year
Chamberlain Creek	Individual	10 years Apr. 1, 2007	October 10, 1911	½ the flow up to 25 cfs	April 1 - October 31	$1.00 per year
Pearson Creek	Individual	10 years Apr. 1, 2007	October 10, 1911	Up to 8 cfs	April 1 - October 31	$1.00 per year
Cottonwood Creek	FWP[3]	9 years June 30, 2005	May 1, 1884	14.0 cfs April , 37.0 cfs May 1-June 30, 32.0 cfs July, 9.0 cfs August, 6.0 cfs Sept., 9.0 cfs Oct., 8.0 cfs November (salvaged water)	April 1- November 4	None
Mol Heron Creek	Private ranch	20 years Dec. 31, 2018	July 15, 1884; May 7, 1885; June 15, 1893; January 1, 1900; March 2, 1903; June 5, 1905; August 5, 1920; April 15, 1967	5.0 cfs to 27.0 cfs	April 15 - October 19	$100,000 - one-time payment
Big Creek	Two private ranches[4]	20 years April 15, 2020	March 12, 1883; June 30, 1901; May 31, 1909; May 15, 1910; May 15, 1910	1.0 – 16.0 cfs (dedicated in perpetuity)	April 15 - October 15	$228,640 - one-time payment
Big Creek	Private ranch	10 years May 1, 2009	June 30, 1873 (first right on stream)	10.0 cfs	May 1 - November 1	$8,000 per year
Rock Creek	Private ranch	20 years	March 23, 1881; May 15, 1881; June 1, 1892; May 1, 1898; September 29, 1904; May 10, 1907	5.0 - 27.22 cfs	April 15 - October 31	$138,346 - one-time payment

[1] Lessor pays for water commissioner and the installation of measuring devices on all on-farm turnouts from the pipeline.
[2] These rights are used to maintain a flow of 1.3 cfs at the mouth of Cedar Creek, eliminating effects on other water users.
[3] FWP converted its own water rights to instream flow under 85-2-439, MCA.
[4] Ranches transferred their rights to the Montana Land Reliance, who is the lessor.

Note: A Lease Agreement on Locke Creek was finalized with the Lessor in 12/01, but is awaiting authorization from DNRC