09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT

Green River Basin

LOCATION.--Lat 40°33′23″, long 110°29′02″ referenced to North American Datum of 1927, in SW ¼ SW ¼ NW ¼ sec.20, T.2 N., R.5 W., Duchesne County, Uintah Meridian, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft downstream from Moon Lake Dam, 2 mi downstream from Brown Duck Creek, and 12 mi northwest of Mountain Home.

DRAINAGE AREA.--112 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1921 to September 1934 (fragmentary), April 1942 to current year. Published as West Fork of Lake Fork near Mountain Home 1921-34, and as Lake Fork below Moon Lake, near Mountain Home 1942-65.

REVISED RECORDS.--WSP 1313: 1930 (M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,970 ft above NGVD of 1929 by barometer. Prior to April 1942, at damsite 2,000 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Moon Lake Reservoir (see station 09290500). No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,180 ft^3/s, Jun 19, 1949, gage height, 4.83 ft, from rating curve extended above 860 ft^3/s; maximum gage height, 5.46 ft, Jun 26, 1944; no flow at times when reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft^3/s, Jun 20, gage height, 4.92 ft; no flow many days.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	e414	684	588	335	409
2	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	e427	789	644	298	463
3	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	e425	865	677	289	465
4	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	e440	856	566	289	451
5	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	458	844	419	292	430
6	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	477	840	496	284	430
7	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	506	834	450	300	427
8	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	525	749	396	317	428
9	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	521	570	357	327	412
10	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	514	496	351	320	375
11	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	506	496	333	295	299
12	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	499	492	307	290	167
13	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	491	325	302	300	70
14	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	483	224	297	346	42
15	e0.00	e0.00	e0.00	0.00	0.00	0.00	e17	476	227	291	342	46
16	e0.00	e0.00	e0.00	0.00	0.00	0.00	e22	471	231	287	310	102
17	e0.00	e0.00	e0.00	0.00	0.00	0.00	e23	471	237	285	265	120
18	e0.00	e0.00	e0.00	0.00	0.00	0.00	e66	468	293	288	254	119
19	e0.00	e0.00	e0.00	0.00	0.00	0.00	e81	465	950	307	286	84
20	e0.00	e0.00	e0.00	0.00	0.00	0.00	e80	469	1,200	314	299	38
21	e0.00	e0.00	e0.00	0.00	0.00	0.00	e159	476	1,160	355	297	38
22	e0.00	e0.00	e0.00	0.00	0.00	0.00	e239	488	1,190	389	296	38
23	e0.00	e0.00	e0.00	0.00	0.00	0.00	e239	506	1,190	338	298	26
24	e0.00	e0.00	e0.00	0.00	0.00	0.00	e268	528	1,040	299	317	15
25	e0.00	e0.00	e0.00	0.00	0.00	0.00	e290	450	949	285	349	15
26	e0.00	e0.00	e0.00	0.00	0.00	0.00	e337	482	956	243	421	15
27	e0.00	e0.00	e0.00	0.00	0.00	0.00	e363	527	772	292	415	15
28	e0.00	e0.00	e0.00	0.00	0.00	0.00	e377	539	734	300	402	15
29	e0.00	e0.00	e0.00	0.00	---	0.00	e392	554	786	318	380	15
30	e0.00	e0.00	e0.00	0.00	---	0.00	e392	567	672	366	372	15
31	e0.00	---	e0.00	0.00	---	0.00	---	642	---	361	387	---
Total	0.00	0.00	0.00	0.00	0.00	0.00	3,345.00	15,265	21,651	11,501	9,972	5,584
Mean	0.00	0.00	0.00	0.00	0.00	0.00	112	492	722	371	322	186
Max	0.00	0.00	0.00	0.00	0.00	0.00	392	642	1,200	677	421	465
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	414	224	243	254	15
Ac-ft	0.00	0.00	0.00	0.00	0.00	0.00	6,630	30,280	42,940	22,810	19,780	11,080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	46.7	6.99	0.92	1.41	2.20	3.30	47.7	302	373	349	246	136
Max	202	120	17.3	28.2	44.4	72.3	202	555	920	717	410	326
(WY)	(1983)	(1966)	(1984)	(1984)	(1966)	(1966)	(1943)	(1969)	(1983)	(1995)	(1944)	(1984)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130	144	127	35.6	0.00
(WY)	(1991)	(1948)	(1943)	(1943)	(1943)	(1943)	(1944)	(1977)	(1945)	(2002)	(1989)	(1992)

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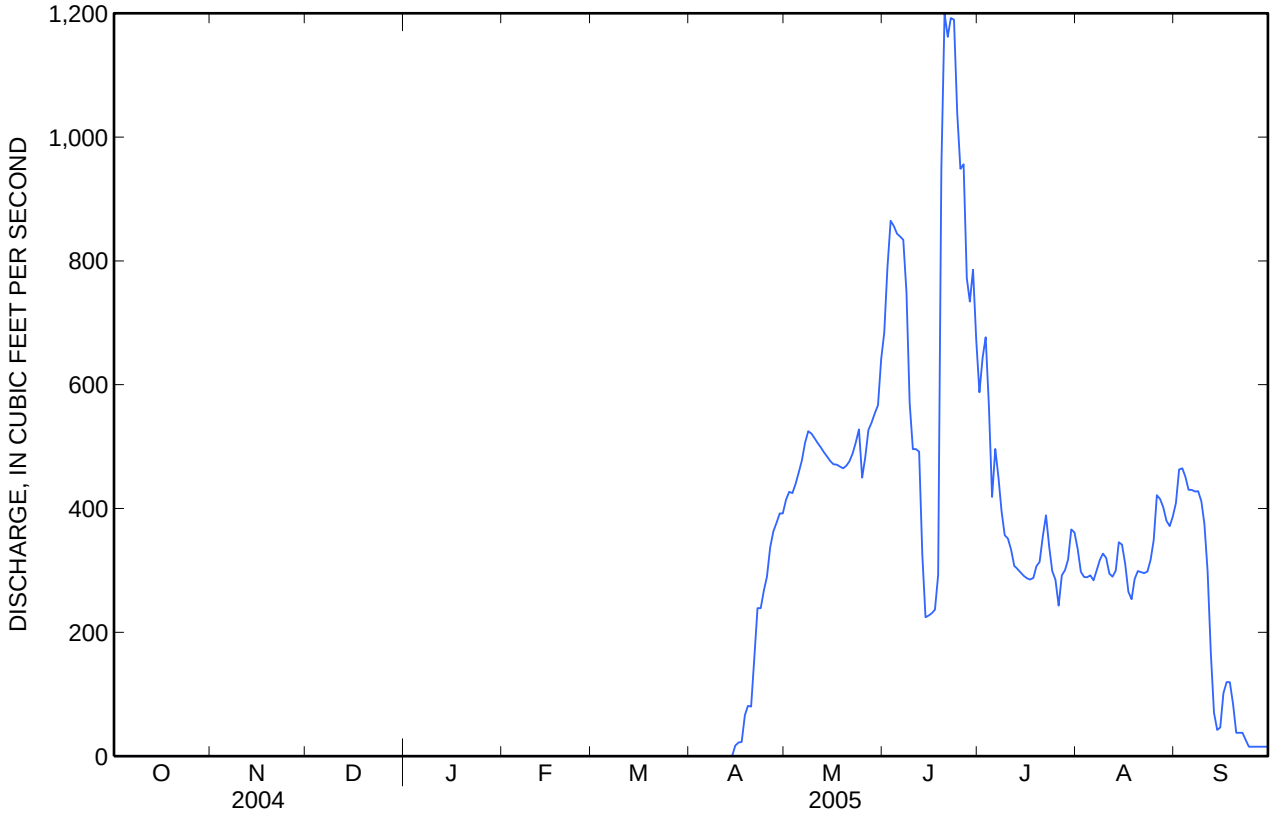
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1943 - 2005	
Annual total	33,624.00		67,318.00			
Annual mean	91.9		184		127	
Highest annual mean					211	1983
Lowest annual mean					56.4	2002
Highest daily mean	524	May 14	1,200	Jun 20	2,000	Jun 19, 1949
Lowest daily mean	0.00	Jan 1	0.00	Oct 1	0.00	Oct 15, 1942
Annual seven-day minimum	0.00	Jan 1	0.00	Oct 1	0.00	Oct 15, 1942
Annual runoff (ac-ft)	66,690		133,500		92,070	
10 percent exceeds	312		506		365	
50 percent exceeds	0.00		0.00		11	
90 percent exceeds	0.00		0.00		0.00