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US Army Corps
of Engineers
Northwestern Division

U.S. Army Corps of Engineers Missouri River Basin Mainstem and Tributary Reservoir Bulletin

Project Data Date/Time: 3/1/15 12:00 AM

03/01/15 11:12 PM

Project	Project Information				Current Data					Occupied Storage		
	Elevations (ft msl)		Storage (ac-ft)		Elevation (ft msl)	Dly Elev. Change	Storage (ac-ft)	Inflow (dsf)	Release (dsf)	MP (%)	FC (ac-ft)	FC (%)
	MP	FC	MP	FC								
MRR - Missouri River Mainstem Projects												
Fort Peck	2234.0	2250.0	14,768,340	18,462,840	2235.21		15,045,000	8,000	7,000	100.0	256660	7.0
Garrison	1837.5	1854.0	17,744,640	23,451,300	1838.81	-0.02	18,132,000	12,000	22,900	100.0	387360	8.3
Oahe	1607.5	1620.0	18,667,635	22,982,900	1608.17	-0.05	18,877,000	17,000	22,900	100.0	209365	4.8
Big Bend	1420.0	1423.0	1,831,474	1,810,414	1420.36	0.40	1,653,000	17,000	4,800	100.0	21526	12.0
Fort Randall	1350.0	1375.0	3,000,732	5,293,473	1349.71	0.13	2,978,000	20,000	16,000	99.2		
Gavins Point	1204.5	1210.0	295,406	428,033	1206.85	-0.04	347,000	18,000	19,000	100.0	51594	28.9
System Totals							57,032,000			100.0		5.7
NWO - USBR Section 7 Projects												
Tiber	2993.0	3012.5	925,649	1,328,723	2987.12	-0.05	824,509	200	599	89.1		
Clark Canyon	5546.1	5560.4	174,367	253,000	5532.24	0.07	109,465	176	31	62.8		
Canyon Ferry	3797.0	3800.0	1,891,888	1,992,977	M	M	M	M	4,930	100.0	#VALUE!	###
Boysen	4725.0	4732.2	741,594	892,000	4721.05	-0.04	667,141	565	931	90.0		
Buffalo Bill	5393.5	5393.5	646,565	644,000	5369.19	-0.04	462,288	223	366	71.5		
Yellowtail	3640.0	3657.0	1,020,573	1,278,396	3629.38	-0.03	905,703	2,820	2,957	88.7		
Jamestown	1431.0	1454.0	31,510	221,000	1429.55		27,282			86.6		
Heart Butte	2064.5	2094.5	67,142	214,000	2064.22	-0.14	66,221	113	345	98.6		
Keyhole	4089.3	4111.5	194,000	334,000	4097.58	-0.01	172,979	-44		89.2		
Pactola	4580.2	4621.5	55,972	99,000	4576.51	-0.04	52,885	35	52	94.4		
Shadehill	2272.0	2302.0	120,172	350,000	2268.45	-0.03	103,203	8	76	85.9		
Glendo	4635.0	4653.0	517,485	790,000	M	M	M	M	M	100.0	#VALUE!	###
NWO - USACE Tributary Projects												
Bowman-Haley	2754.8	2777.0	18,765	91,482	2752.43		13,794	41	41	73.5		
Pipestem	1442.5	1496.3	8,944	142,107	1442.04		7,977	11	11	89.2		
Chatfield	5432.0	5500.0	27,428	234,207	5431.97	-0.01	27,034	54	61	98.6		
Cherry Creek	5550.0	5612.1	12,805	133,634	5550.31	-0.04	12,823	20	M	100.0	18	0.0
Bear Creek	5558.0	5635.5	1,882	30,586	5558.50	-0.03	1,878	14	M	99.8		
Papio #11	1121.0	1142.0	3,054	16,907	1121.30		M			100.0	#VALUE!	###
Papio #16	1104.0	1121.0	1,211	4,782	1103.92		1,131			93.4		
Papio #18	1110.0	1128.2	2,916	10,512	1110.22		2,837	3	3	97.3		
Papio #20	1095.8	1113.1	2,569	8,611	1095.91		2,328			90.6		
NWK - Tributary Projects												
Bonny	3672.0	3710	41,340	170,160	M	M	M	M	M	100.0	#VALUE!	###
Swanson	2752.0	2773.0	112,285	246,291	M	M	M	M	M	100.0	#VALUE!	###
Enders	3112.3	3127.0	42,922	72,958	M	M	M	M	M	100.0	#VALUE!	###
Hugh Butler	2581.8	2604.9	36,225	85,089	M	M	M	M	M	100.0	#VALUE!	###
Harry Strunk	2366.1	2386.2	34,649	87,366	M	M	M	M	M	100.0	#VALUE!	###
Norton	2304.3	2331.4	34,509	133,739	M	M	M	M	M	100.0	#VALUE!	###
Harlan County	1946.0	1973.5	317,687	814,111	1932.76	0.04	166,488	M	M	52.4		
Lovewell	1582.6	1595.3	35,686	86,140	M	M	M	M	M	100.0	#VALUE!	###
Milford	1144.4	1176.2	388,816	1,145,526	1142.90		350,504	M	M	90.1		
NWK - Lower Kansas River Basin												
Cedar Bluff	2144.0	2166.0	172,451	364,342	M	M	M	M	M	100.0	#VALUE!	###
Kanopolis	1463.0	1508.0	49,470	418,935	1459.86	0.31	39,314	M	M	79.5		
Wilson	1516.0	1554.0	242,528	772,732	1507.72		169,872	M	M	70.0		
Kirwin	1729.3	1757.3	98,422	313,327	1715.55		42,698	M	M	43.4		
Webster	1892.5	1923.7	76,365	259,572	1871.00	0.01	18,936	M	M	24.8		
Wacanda	1455.6	1488.3	219,420	942,408	1453.40	0.01	192,830	M	M	87.9		
Tuttle Creek	1075.0	1136.0	280,137	2,150,872	1076.35	-0.02	272,025	M	M	97.1		
Perry	891.5	920.6	200,004	722,486	891.69	-0.08	201,958	M	M	100.0	1954	0.4
Clinton	875.5	903.4	125,334	394,227	874.56	0.02	112,053	M	M	89.4		
NWK - Metro - Kansas City Area												
Blue Springs	802.0	820.3	10,888	26,557	802.27	0.02	11,085	M	M	100.0	197	1.3
Longview	891.0	909.0	22,134	46,944	889.89	0.01	21,164	M	M	95.8		
Smithville	864.2	876.2	141,744	243,538	862.49	0.01	129,908	M	M	91.6		
NWK - Chariton River Basin												
Rathbun	904.0	926.0	221,966	571,421	904.37	-0.04	225,632	M	M	100.0	3666	1.0
Long Branch	791.0	801.0	34,189	64,516	789.05	-0.04	29,711	M	M	86.9		
NWK - Osage River Basin												
Pomona	974.0	1003.0	64,208	240,331	972.06	0.01	48,134	M	M	75.0		
Melvorn	1036.0	1057.0	152,051	360,258	1034.01	0.01	128,434	M	M	89.7		
Hillsdale	917.0	931.0						M	M	94.7		
Pomme de Terre	839.0	874.0						M	M	91.1		
Stockton	867.0	892.0						M	M	89.7		
Harry S. Truman	706.0	739.6	1.3					M	M	100.0	15920	0.4
Bagnell	660.0	665.0	1.5					M	M	100.0	#VALUE!	###

Peter Capossela

Rebuttal Testimony

Exhibit C

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US Army Corps
of Engineers
Northwestern Division

U.S. Army Corps of Engineers

Missouri River Basin

Daily River Bulletin

Bulletin Updated: 14Aug2015 07:13

STATION	Miles above Missouri R Mouth (1980)	Elev Datum (ft msl)	Flood Stage (feet)	Gage Reading (feet)	24-Hr Change (feet)	Estimated Discharge In/Out (cfs)	Actual Stor/Gen (KAF / Mwh)	24-Hr Precip (in)	Air Temp (deg F)	
Missouri River Mainstem Projects as of Midnight										
Fort Peck	1771.6			2235.9	0.0	M	0 2537	0.00		
Garrison	1389.9			1843.6	0.0	M	0 6312	0.00	94	67
Oahe	1072.3			1613.1	-0.1	M	0 7719	0.00		
Big Bend	987.4			1420.1	-0.2	M	0 3158	0.04	88	74
Fort Randall	880.0			1357.1	0.3	M	0 5613	0.00	88	71
Gavins Point	811.1			1206.1	-0.1	M	0 2402	0.00	88	69
M							System Storage Storage Change Daily Generation	0 KAF -61,034 KAF M Mwh		
Selected Tributary Reservoirs as of Midnight										
Canyon Ferry	2252.8			3780.1	-0.2	1471 3887	1666	0.00		
Harry S Truman	175.1			708.0	-0.2	M M	1300 M	0.00		
Bagnell	81.7			M	-659.5	M M	0	0.00		
Selected River Gaging Stations as of 6:00 A.M.										
Yellowstone River										
Corwin Springs, MT	2113.0	5079.1	11	M	-2.3	M				
Livingston, MT	2063.0	4542.5	9.5	M	-2.6	M		M	M	M
Billings, MT	1928.0	3081.4	13.5	M	-3.1	M		M	M	M
Miles City, MT	1763.0	2330.2	13	M	0.0	M		M	M	M
Sidney, MT	1612.0	1881.3	19	M	-3.8	M				
Missouri River										
Virgelle, MT	2033.0	2507.5	17	M	-3.3	M				
Wolf Point, MT	1701.0	1958.6	23	M	-11.3	M		M	M	M
Culbertson, MT	1621.0	1883.4	19	M	-3.4	M				
Williston, ND	1553.0	1830.2	22	M	-15.5			M	M	M
Bismarck, ND	1315.0	1618.3	14.5	M	-5.2	M		M	M	M
Pierre, SD	1067.0	1414.3	13	M	-7.1			M	M	M
Yankton, SD	806.0	1139.7	20	M	-11.8	M		M	M	M
James River										
Scotland, SD	33.0	1168.5	13	M	-5.3	M				
Missouri River										
Ponca, NE	751.0	1080.0	20	M	-10.9					
Big Sioux River										
Akron, IA	54.0	1118.9	16	9.3	1.0	2230				
Missouri River										
Sioux City, IA	732.0	1057.0	30	12.4	0.2	30090		M	M	M
Decatur, NE	691.0	1010.0	35	20.8	0.0	29844				
Blair, NE	648.0	977.3	26.5	14.1	0.0					
Omaha, NE	616.0	948.2	29	14.7	-0.1	32764		M	M	M
Platte River										
Louisville, NE	17.0	1007.1	9	M	-3.2	M				
Missouri River										
Plattsmouth, NE	592.0	928.3	26	M	-15.8					
Nebraska City, NE	563.0	905.4	18	10.5	0.0	39462				
Brownville, NE	535.0	860.0	33	M	-26.7					
Rulo, NE	498.0	837.2	17	M	-10.3	M				
St. Joseph, MO	448.0	788.2	17	M	-9.8	M		M	M	M
Kansas River										
Wamego, KS	127.0	950.8	19	M	-5.5	M				
Lecompton, KS	65.0	821.8	17	M	-3.9	M				
Desoto, KS	30.0	753.8	26	M	-6.5	M				
Missouri River										
Kansas City, MO	366.0	706.4	32	M	-14.3	M		M	M	M
Napoleon, MO	329.0	680.2	17	M	-11.8					
Waverly, MO	293.0	646.0	20	M	-15.4	M				
Grand River										
Sumner, MO	41.0	631.3	26	M	-17.5	M				
Missouri River										
Glasgow, MO	226.0	586.1	25	M	-19.3					
Boonville, MO	197.0	565.4	21	M	-16.3	M				
Jefferson City, MO	144.0	520.1	23	M	-16.2					
Osage River										
St. Thomas, MO	35.0	525.7	23	M	-7.3	M				
Gasconade River										
Rich Fountain, MO	53.0	553.7	20	M	-5.8	M				
Missouri River										
Hermann, MO	98.0	481.6	21	M	-16.6	M				
St. Charles, MO	28.0	413.7	25	20.3	0.6			M	M	M
Mississippi River										
St. Louis, MO	1144.0	379.9	30	17.7	1.4	287000		M	M	M

MISSOURI RIVER REGION
DAILY RIVER BULLETIN

14 AUG 2013

S T A T I O N	MILES									
	ABOVE	ELEV	FLOOD	GAGE	24 HR	EST	STORE	24 HR	TEMP	
	MO R.	DATUM	STAGE	READ	CHANGE	DISCH	1000	PRECIP	DEGR F	
	MOUTH	FEET	FEET	FEET	FEET	CFS	AC FT	INCH	HI	LO
		(1960)	MSL							

MAIN STEM RESERVOIRS										
FORT PECK	POOL	1771.6		2225.8	-0.0	6000	13146	0.01	85	61
RES	TW					7900	2480	MWH		
GARRISON	POOL	1389.9		1835.4	-0.1	14000	17126	0.00	76	53
RES	TW					19200	5722	MWH		
OAHE	POOL	1072.3		1602.3	0.1	21000	17085	0.00		
RES	TW					17100	4955	MWH		
BIG BEND	POOL	987.4		1420.5	-0.1	18000	1650	0.00	77	61
RES	TW					20000	2368	MWH		
FORT RANDALL	POOL	880.0		1356.2	0.0	21000	3516	0.00	79	67
RES	TW					19800	4193	MWH		
GAVINS POINT	POOL	811.1		1206.3	0.0	21000	333	0.00	78	61
RES	TW					21000	1910	MWH		
SYSTEM-STORAGE							52856			
-CHANGE							-21			
-GENERATION							21628	MWH		
SELECTED TRIBUTARY RESERVOIRS										
CANYON FERRY	POOL	2252.8		3786.8	-0.1	1270	1563			
RES	TW					3001				
HARRY S TRUMAN	POOL	175.1		713.2	0.1	30000	1659	0.00		
RES	TW					26865	2471	MWH		
BAGNELL	POOL	81.7		658.8	-0.2	28947	1861	0.00		
RES	TW					37182				
SELECTED RIVER GAGES										
YELLOWSTONE RIVER										
CORWIN SPRINGS		2113.0	5079.1	11	2.2	-0.0	1940			
LIVINGSTON, MT.		2063.0	4542.5	8				0.00	88	50
BILLINGS, MT.		1928.0	3081.4	13	2.6	-0.0	2600	0.00	86	62
MILES CITY, MT		1763.0	2330.2	13	3.0	-0.1	4950	0.00	83	61
SIDNEY, MT		1612.0	1881.3	19	3.8	0.0	3640			
MISSOURI RIVER										
VIRGELLE, MT.		2033.0	2507.5	17	3.0	-0.0	5040			
WOLF POINT, MT		1701.0	1968.6	23	11.2	0.2	8890	0.00	83	58
CULBERTSON, MT		1621.0	1883.4	19	3.4	-0.0	8030			
WILLISTON, N.D.		1553.0	1830.2	20				0.20	79	57
BISMARCK, N.D.		1315.0	1618.3	14	4.3	-0.0	18899	0.00	81	55
PIERRE, S.D.		1067.0	1414.3	13	6.3	-0.0		0.16	80	61
YANKTON, S.D.		806.0	1139.7	20	11.0	0.0	20983	0.00	77	54
JAMES RIVER										
SCOTLAND, S.D.		33.0	1168.5	13	7.3	-0.3	1540			
MISSOURI RIVER										
PONCA, NE.		751.0	1080.0	24	8.9	0.2				
BIG SIOUX RIVER										
AKRON, IA.		54.0	1118.9	16	6.7	-0.5	1110			
MISSOURI RIVER										
SIOUX CITY, IA.		732.0	1057.0	30	10.2	0.2	24141			
DECATUR, NE.		691.0	1010.0	35	19.3	0.2	24004			
BLAIR, NE.		648.0	977.3	26	11.3	0.0				
OMAHA, NE.		616.0	948.2	29	11.7	-0.1	24300	0.00	83	60
PLATTE RIVER										

LOUISVILLE, NE.	17.0	1007.1	9	2.9	0.1	3192			
MISSOURI RIVER									
PLATTSMOUTH, NE.	592.0	928.3	26	13.2	-0.2				
NEBRASKA CITY, N	563.0	905.4	18	7.5	-0.1	27200			
BROWNVILLE, NE.	535.0	860.0	33	23.0	0.0				
RULO, NE.	498.0	837.2	17	6.2	-0.1	28927			
ST. JOSEPH, MO.	448.0	788.2	17	5.0	-0.2	31500	0.01	82	59
KANSAS RIVER									
WAMEGO, KS.	127.0	950.8	19	7.3	-0.5	8000			
LECOMPTON, KS.	65.0	821.8	17	6.3	1.0	11200			
DESOTO, KS.	30.0	753.8	26	8.6	0.8	10400			
MISSOURI RIVER									
KANSAS CITY, MO.	366.0	706.4	32	9.7	-0.1	39800	0.00	81	63
NAPOLEON	329.0	680.2	17						
WAVERLY, MO.	293.0	646.0	20	10.4	-0.0	41037			
GRAND RIVER									
SUMNER, MO.	41.0	631.3	26	7.4	-0.1	238			
MISSOURI RIVER									
GLASGOW, MO.	226.0	586.5	25	10.9	-0.4				
BOONVILLE, MO.	197.0	565.4	21	7.1	-0.7	44247			
JEFFERSON CITY	144.0	520.2	23	7.1	-0.5				
OSAGE RIVER									
ST THOMAS	35.0	525.7	23	13.2	-0.4	34599			
GASCONADE RIVER									
RICH FOUNTAIN, M	53.0	553.7	20	10.1	-8.0	13300			
MISSOURI RIVER									
HERMANN, MO.	98.0	481.6	21	15.5	-0.9	124983			
ST CHARLES	28.0	413.5	25	19.5	-0.7		0.00	79	51
MISSISSIPPI RIVER									
ST. LOUIS, MO.	1144.0	379.9	30	11.2	-1.8	202996	0.00	80	57

MRR DAILY BULLETIN 14 AUG 2013

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