

MONTHLY RESERVOIR OPERATION JAN 2005

RESERVOIR
HARLAN COUNTYRIVER
REPUBLICANDISTRICT
KANSAS CITY

MISSOURI RIVER REGION

U.S. ARMY CORPS OF ENGINEERS

* * *	ELEV. MSL	* * *	STORAGE AC-FT	* * *	PAN INCH	EVAP. CFS	* * *	MEAN DISCHARGE IN CFS				* * *
								OUTFLOW RIVER	FRCAL	NAP	INFLOW RIVER	
1*	1925.39-	*	106,706	*	0.03-	7-	*	0+	0+	0+	5-	*
2*	1925.43	*	106,981	*	0.03	7	*	0	0	0	5	*
3*	1925.43	*	106,981	*	0.03	7	*	0	0	0	10	*
4*	1925.44	*	107,050	*	0.03	7	*	0	0	0	10	*
5*	1925.49	*	107,393	*	0.03	7	*	0	0	0	50+	*
6*	1925.50	*	107,462	*	0.03	7	*	0	0	0	30	*
7*	1925.50	*	107,462	*	0.03	7	*	0	0	0	30	*
8*	1925.50	*	107,462	*	0.03	8	*	0	0	0	30	*
9*	1925.51	*	107,531	*	0.03	8	*	0	0	0	40	*
10*	1925.51	*	107,531	*	0.03	7	*	0	0	0	20	*
11*	1925.50	*	107,462	*	0.03	7	*	0	0	0	5	*
12*	1925.50	*	107,462	*	0.03	7	*	0	0	0	5	*
13*	1925.51	*	107,531	*	0.03	7	*	0	0	0	10	*
14*	1925.50	*	107,462	*	0.03	7	*	0	0	0	5	*
15*	1925.50	*	107,462	*	0.03	7	*	0	0	0	5	*
16*	1925.50	*	107,462	*	0.03	7	*	0	0	0	5	*
17*	1925.49	*	107,393	*	0.03	7	*	0	0	0	5	*
18*	1925.49	*	107,393	*	0.03	7	*	0	0	0	5	*
19*	1925.49	*	107,393	*	0.03	7	*	0	0	0	5	*
20*	1925.49	*	107,393	*	0.03	8	*	0	0	0	5	*
21*	1925.48	*	107,325	*	0.03	8	*	0	0	0	5	*
22*	1925.50	*	107,462	*	0.03	8	*	0	0	0	20	*
23*	1925.48	*	107,325	*	0.03	7	*	0	0	0	10	*
24*	1925.50	*	107,462	*	0.03	8	*	0	0	0	20	*
25*	1925.50	*	107,462	*	0.03	8	*	0	0	0	20	*
26*	1925.49	*	107,393	*	0.03	8	*	0	0	0	10	*
27*	1925.47	*	107,256	*	0.03+	8+	*	0	0	0	5	*
28*	1925.50	*	107,462	*	0.03	7	*	0	0	0	20	*
29*	1925.51	*	107,531	*	0.03	8	*	0	0	0	30	*
30*	1925.51	*	107,531	*	0.03	8	*	0	0	0	35	*
31*	1925.52+	*	107,599	*	0.03	8	*	0	0	0	40	*
TOT (DSF) *						0.99	225 *	0	0	0 *	500	*
TOT (AC-FT) *							446 *	0	0	0 *	992	*
* MN*1925.49 *						0.03	7 *	0	0	0 *	16	*

* REMARKS - RESERVOIR STORAGE EOM = 107,599 CHNG = 550
 * + MAX. MONTHLY MAX = 107,599 (31) MIN = 106,706 (1)
 * - MIN. MONTHLY PRECIP. = 0.76 INCHES

$$992$$

$$958$$

$$34 = \frac{4}{12}(.7)(6868)$$

+1085 =

TOTAL P.02

MONTHLY RESERVOIR OPERATION FEB 2005

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RESERVOIR
HARLAN COUNTY

RIVER
REPUBLICAN

DISTRICT
KANSAS CITY

MISSOURI RIVER REGION

U.S. ARMY CORPS OF ENGINEERS

* * * *	ELEV. MSL	* * * *	STORAGE AC-FT	* * * *	PAN INCH	EVAP. CFS	* * * *	MEAN DISCHARGE IN CFS			* * * *	INFLOW RIVER	* * * *
								OUTFLOW RIVER	FRCAL	NAP			
1*1925.53	*		107,668	*	0.05	10	*	0+	0+	0+	*	130	*
2*1925.54	*		107,737	*	0.05	9	*	0	0	0	*	130	*
3*1925.56	*		107,874	*	0.05	9	*	0	0	0	*	140	*
4*1925.57	*		107,943	*	0.05	9	*	0	0	0	*	140	*
5*1925.59	*		108,081	*	0.05	9	*	0	0	0	*	150	*
6*1925.63	*		108,355	*	0.05	9	*	0	0	0	*	150	*
7*1925.71	*		108,905	*	0.05	9	*	0	0	0	*	170+	*
8*1925.71	*		108,905	*	0.05	10	*	0	0	0	*	140	*
9*1925.75	*		109,180	*	0.05	9	*	0	0	0	*	150	*
10*1925.77	*		109,317	*	0.05	9	*	0	0	0	*	140	*
11*1925.79	*		109,455	*	0.05	10	*	0	0	0	*	100	*
12*1925.81	*		109,592	*	0.05	9	*	0	0	0	*	90	*
13*1925.87	*		110,005	*	0.05	9	*	0	0	0	*	100	*
14*1925.90	*		110,211	*	0.05	9	*	0	0	0	*	120	*
15*1925.92	*		110,348	*	0.05+	10+	*	0	0	0	*	80	*
16*1925.94	*		110,486	*	0.05	10	*	0	0	0	*	80	*
17*1925.97	*		110,692	*	0.05	10	*	0	0	0	*	70	*
18*1926.01	*		110,970	*	0.05	10	*	0	0	0	*	70	*
19*1926.03	*		111,114	*	0.05	10	*	0	0	0	*	50-	*
20*1926.08	*		111,474	*	0.05	10	*	0	0	0	*	50	*
21*1926.10	*		111,618	*	0.05	10	*	0	0	0	*	70	*
22*1926.13	*		111,834	*	0.05	10	*	0	0	0	*	70	*
23*1926.10	*		111,618	*	0.05	10	*	0	0	0	*	60	*
24*1926.17	*		112,122	*	0.05	10	*	0	0	0	*	60	*
25*1926.19	*		112,266	*	0.05	10	*	0	0	0	*	50	*
26*1926.19	*		112,266	*	0.05	10	*	0	0	0	*	70	*
27*1926.21	*		112,410	*	0.05	10	*	0	0	0	*	70	*
28*1926.23	*		112,554	*	0.05	10	*	0	0	0	*	60	*
* * * *	 	 	 	 	 	 	 	 	 	 	 	 	
TOT (DSF)	*				1.36	264	*	0	0	0	*	2,760	*
TOT (AC-FT)	*					524	*	0	0	0	*	5,474	*

* MN*1925.89 * 0.05 9 * 0 0 0 * 99 *

* REMARKS - RESERVOIR STORAGE EOM = 112,554 CHNG = 4,955
 * + MAX. MONTHLY MAX = 112,554 (28) MIN = 107,668 (1)
 * - MIN. MONTHLY PRECIP. = 0.85 INCHES

5493
5474

$$19 = \frac{x}{12}(7)(111)$$

.047

MONTHLY RESERVOIR OPERATION MAR 2005

RESERVOIR
HARLAN COUNTYRIVER
REPUBLICANDISTRICT
KANSAS CITY

* MISSOURI RIVER REGION

U.S. ARMY CORPS OF ENGINEERS

* * *	* ELEV.	* STORAGE	* PAN	* EVAP.	* MEAN DISCHARGE IN CFS	* * *	
* * MSL	* AC-FT	* INCH	* CFS	* RIVER	* FRCAL	* NAP	* INFLOW
* * *	* * *	* * *	* * *	* * *	* * *	* * *	* RIVER
* 1*1926.25	* 112,698	* 0.07+	13	* 0+	0+	0+	75
* 2*1926.27	* 112,842	* 0.07	13	* 0	0	0	75
* 3*1926.28	* 112,914	* 0.07	13	* 0	0	0	75
* 4*1926.31	* 113,130	* 0.07	13	* 0	0	0	75
* 5*1926.31	* 113,130	* 0.07-	12	* 0	0	0	75
* 6*1926.35	* 113,418	* 0.07	12	* 0	0	0	75
* 7*1926.36	* 113,490	* 0.07	12	* 0	0	0	75
* 8*1926.38	* 113,634	* 0.07	12	* 0	0	0	75
* 9*1926.39	* 113,706	* 0.07	12	* 0	0	0	75
* 10*1926.40	* 113,778	* 0.07	12	* 0	0	0	75
* 11*1926.40	* 113,778	* 0.07	12	* 0	0	0	75
* 12*1926.42	* 113,922	* 0.07	12	* 0	0	0	75
* 13*1926.42	* 113,922	* 0.07	13	* 0	0	0	75
* 14*1926.44	* 114,066	* 0.07	12	* 0	0	0	75
* 15*1926.45	* 114,139	* 0.07	12	* 0	0	0	75
* 16*1926.46	* 114,211	* 0.07	13	* 0	0	0	75
* 17*1926.47	* 114,283	* 0.07	13	* 0	0	0	75
* 18*1926.52	* 114,643	* 0.07	13	* 0	0	0	80
* 19*1926.47	* 114,283	* 0.07	13	* 0	0	0	70-
* 20*1926.47	* 114,283	* 0.07	13	* 0	0	0	70
* 21*1926.60	* 115,219	* 0.07	13	* 0	0	0	150
* 22*1926.74	* 116,227	* 0.07	13	* 0	0	0	300+
* 23*1926.80	* 116,659	* 0.07	13	* 0	0	0	250
* 24*1926.82	* 116,803	* 0.07	13	* 0	0	0	200
* 25*1926.86	* 117,091	* 0.07	13	* 0	0	0	175
* 26*1926.90	* 117,379	* 0.07	13	* 0	0	0	160
* 27*1926.94	* 117,667	* 0.07	13	* 0	0	0	150
* 28*1926.97	* 117,883	* 0.07	13+	* 0	0	0	140
* 29*1927.03	* 118,326	* 0.07	12	* 0	0	0	150
* 30*1927.08	* 118,704	* 0.07	12	* 0	0	0	200
* 31*1927.09+	* 118,779	* 0.07	12	* 0	0	0	160
TOT (DSF)		2.25	389	* 0	0	0	3,530
TOT (AC-FT)			772	* 0	0	0	7,002
* MN*1926.57		0.07	13	* 0	0	0	114

* REMARKS - RESERVOIR STORAGE EOM = 118,779 CHNG = 6,225
 * + MAX. MONTHLY MAX = 118,779 (31) MIN = 112,698 (1)
 * - MIN. MONTHLY PRECIP. = 2.36 INCHES

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL

of pages 1

To *B. H. Peck*
 Dept/Agency *USBR*
 Fax #

From *Steve Spaulding*
 Phone # *816-983-3155*
 Fax #

$$200 = \frac{x}{12} (7) (7255.5) = .473$$

TOTAL P.01

MONTHLY RESERVOIR OPERATION APR 2005

RESERVOIR HARLAN COUNTY				RIVER REPUBLICAN		DISTRICT KANSAS CITY			
MISSOURI RIVER REGION						U.S. ARMY CORPS OF ENGINEERS			
* * *	* ELEV. MSL	* STORAGE AC-FT	* PAN INCH	* EVAP. CFS	* MEAN DISCHARGE IN CFS OUTFLOW RIVER	* PRCAL	* NAP	* INFLOW RIVER	* *
1*	1927.12	119,006	0.18	30	0+	0+	0+	120	*
2*	1927.11-	118,930	0.52+	85+	0	0	0	130	*
3*	1927.15	119,233	0.44	72	0	0	0	175	*
4*	1927.18	119,459	0.24	39	0	0	0	150	*
5*	1927.23	119,837	0.24	39	0	0	0	150	*
6*	1927.38	120,971	0.16	26	0	0	0	400	*
7*	1927.58	122,482	0.20	33	0	0	0	750	*
8*	1927.78	123,994	0.17	28	0	0	0	875+	*
9*	1927.84	124,598	0.19	32	0	0	0	480	*
10*	1927.91	124,976	0.19	32	0	0	0	245	*
11*	1928.00	125,656	0.04-	7-	0	0	0	200	*
12*	1928.07	126,210	0.09	15	0	0	0	150	*
13*	1928.08	126,290	0.12	20	0	0	0	160	*
14*	1928.09	126,369	0.08	14	0	0	0	130	*
15*	1928.11	126,527	0.17	29	0	0	0	120	*
16*	1928.15	126,844	0.15	25	0	0	0	115	*
17*	1928.18	127,082	0.15	25	0	0	0	110	*
18*	1928.20	127,240	0.23	39	0	0	0	110	*
19*	1928.24	127,557	0.13	22	0	0	0	120	*
20*	1928.25	127,636	0.26	44	0	0	0	150	*
21*	1928.28	127,874	0.13	22	0	0	0	120	*
22*	1928.34	128,349	0.21	36	0	0	0	180	*
23*	1928.30	128,032	0.09	15	0	0	0	150	*
24*	1928.29	127,953	0.26	44	0	0	0	100	*
25*	1928.31	128,111	0.13	22	0	0	0	100	*
26*	1928.33	128,270	0.17	29	0	0	0	90	*
27*	1928.33	128,270	0.22	38	0	0	0	80	*
28*	1928.33	128,270	0.10	17	0	0	0	80	*
29*	1928.34	128,349	0.04	7	0	0	0	75	*
30*	1928.38+	128,666	0.08	14	0	0	0	70-	*
TOT*	(DSF)		5.38	902	0	0	0	5,885	*
TOT*	(AC-FT)			1789	0	0	0	11,673	*
MN*	1927.96		0.18	30	0	0	0	196	*
REMARKS - RESERVOIR STORAGE EOM = 128,666 CHNG = 9,887									
+ MAX. MONTHLY MAX = 128,666 (30) MIN = 118,930 (2)									
- MIN. MONTHLY PRECIP. = 1.67 INCHES									
STORAGE DIFFERENCE = 9886. STORAGE ACCUMULATION = 9884.									

$$12084 - 11673 =$$

$$411 = \frac{x}{12}(7)(764)$$

922

MONTHLY RESERVOIR OPERATION MAY 2005

RESERVOIR
HARLAN COUNTYRIVER
REPUBLICANDISTRICT
KANSAS CITY

MISSOURI RIVER REGION

U.S. ARMY CORPS OF ENGINEERS

* * *		* * *		* * *		MEAN DISCHARGE IN CFS				* * *	
* * *	ELEV.	* * *	STORAGE	* * *	PAN	EVAP.	* * *	OUTFLOW		* * *	INFLOW
* * *	MSL	* * *	AC-FT	* * *	INCH	CFS	* * *	RIVER	FRCAL	NAP	RIVER
* 1*	1928.38	* 128,666	* 0.22	38	*			0+	0+	0+	100
* 2*	1928.39	* 128,745	* 0.36	63	*			0	0	0	100
* 3*	1928.39	* 128,745	* 0.21	37	*			0	0	0	75
* 4*	1928.40	* 128,824	* 0.10	18	*			0	0	0	60
* 5*	1928.42	* 128,982	* 0.31	54	*			0	0	0	100

* 6*	1928.43	* 129,062	* 0.14	25	*			0	0	0	100
* 7*	1928.46	* 129,299	* 0.22	39	*			0	0	0	75
* 8*	1928.47	* 129,378	* 0.30	53	*			0	0	0	60
* 9*	1928.52	* 129,537	* 0.30	53	*			0	0	0	75
* 10*	1928.48	* 129,458	* 0.24	42	*			0	0	0	60

* 11*	1928.50	* 129,616	* 0.28	49	*			0	0	0	50
* 12*	1928.57	* 130,170	* 0.22	38	*			0	0	0	80
* 13*	1928.56	* 130,091	* 0.22	39	*			0	0	0	100
* 14*	1928.59	* 130,329	* 0.08	14	*			0	0	0	80
* 15*	1928.55	* 130,012	* 0.27	48	*			0	0	0	50

* 16*	1928.55	* 130,012	* 0.26	46	*			0	0	0	40
* 17*	1928.54	* 129,933	* 0.34	60	*			0	0	0	40
* 18*	1928.69	* 131,121	* 0.45	79	*			0	0	0	600+
* 19*	1928.69	* 131,121	* 0.27	48	*			0	0	0	275
* 20*	1928.67	* 130,962	* 0.34	60	*			0	0	0	100

* 21*	1928.67	* 130,962	* 0.22	39	*			0	0	0	75
* 22*	1928.66	* 130,883	* 0.40	71	*			0	0	0	50
* 23*	1928.66	* 130,883	* 0.69+	122+	*			0	0	0	30-
* 24*	1928.67	* 130,962	* 0.40	71	*			0	0	0	30
* 25*	1928.68	* 131,042	* 0.42	74	*			0	0	0	70

* 26*	1928.67	* 130,962	* 0.20	35	*			0	0	0	40
* 27*	1928.67	* 130,962	* 0.24	43	*			0	0	0	30
* 28*	1928.67	* 130,962	* 0.23	41	*			0	0	0	30
* 29*	1928.70	* 131,200	* 0.10	18	*			0	0	0	30
* 30*	1928.71	* 131,279	* 0.24	43	*			0	0	0	30
* 31*	1928.77+	* 131,754	* 0.18	32	*			0	0	0	410

TOT*	(DSF)	*		8.45		1488	*	0	0	0	3,045
TOT*	(AC-FT)	*				2952	*	0	0	0	6,040

MN*	1928.57	*		0.27		48	*	0	0	0	98

REMARKS - RESERVOIR STORAGE EOM = 131,754 CHNG = 3,089											
+ MAX. MONTHLY MAX = 131,754 (31) MIN = 128,666 (1)											
- MIN. MONTHLY PRECIP. = 2.03 INCHES											

$$\frac{7}{12}(.7)(7947) = 344$$

$$x = .742$$

$$\frac{6384}{6040} = 344$$

MONTHLY RESERVOIR OPERATION JUN 2005

RESERVOIR
HARLAN COUNTYRIVER
REPUBLICANDISTRICT
KANSAS CITY

U.S. ARMY CORPS OF ENGINEERS

MISSOURI RIVER REGION

* * *	ELEV. MSL	* * *	STORAGE AC-FT	* * *	PAN INCH	EVAP. CFS	* * *	MEAN DISCHARGE IN CFS			* * *	INFLOW RIVER	* * *
								OUTFLOW RIVER	FRCAL	NAP			
1*	1928.79	*	131,913	*	0.09	-	18	0+	0+	0+	*	100	*
2*	1928.82	*	132,150	*	0.15		30	0	0	0	*	160	*
3*	1928.98	*	133,418	*	0.18		36	0	0	0	*	675+	*
4*	1929.08	*	134,239	*	0.15		31	0	0	0	*	450	*
5*	1929.13	*	134,653	*	0.29		59	0	0	0	*	400	*
6*	1929.17	*	134,984	*	0.30		61	0	0	0	*	500	*
7*	1929.26	*	135,729	*	0.38		78	0	0	0	*	450	*
8*	1929.32	*	136,226	*	0.42		87	0	0	0	*	325	*
9*	1929.31	*	136,143	*	0.42		87	0	0	0	*	150	*
10*	1929.46	*	137,385	*	0.12		25	0	0	0	*	650	*
11*	1929.55	*	138,131	*	0.28		58	0	0	0	*	440	*
12*	1929.56	*	138,213	*	0.28		58	0	0	0	*	200	*
13*	1929.65	*	138,959	*	0.12		25	0	0	0	*	400	*
14*	1929.69	*	139,290	*	0.18		38	0	0	0	*	200	*
15*	1929.69	*	139,290	*	0.32		67	0	0	0	*	100	*
16*	1929.71	*	139,456	*	0.25		53	0	0	0	*	130	*
17*	1929.74	*	139,704	*	0.26		55	0	0	0	*	180	*
18*	1929.77	*	139,952	*	0.12		25	0	0	0	*	150	*
19*	1929.77	*	139,952	*	0.42		88	0	0	0	*	90	*
20*	1929.79	*	140,118	*	0.32		67	0	0	0	*	150	*
21*	1929.81	*	140,284	*	0.23		49	0	0	0	*	180	*
22*	1929.92	*	141,195	*	0.51		108	0	0	0	*	100	*
23*	1929.92	*	141,195	*	0.33		70	0	0	0	*	65	*
24*	1929.92	*	141,195	*	0.53		112	0	0	0	*	80	*
25*	1929.93	*	141,277	*	0.79+		168+	0	0	0	*	65	*
26*	1929.94	+	141,360	*	0.60		127	0	0	0	*	50	*
27*	1929.93	*	141,277	*	0.23		49	0	0	0	*	40-	*
28*	1929.91	*	141,112	*	0.20		42	0	0	0	*	40	*
29*	1929.94	*	141,360	*	0.44		93	0	0	0	*	100	*
30*	1929.91	*	141,112	*	0.45		95	0	0	0	*	60	*
* * *													
TOT (DSF) *					9.36	1960	*	0	0	0	*	6,680	
TOT (AC-FT) *						3888	*	0	0	0	*	13,250	
* MN*1929.58 *					0.31	65	*	0	0	0	*	223	

* REMARKS - RESERVOIR STORAGE EOM = 141,112 CHNG = 9,357
 * + MAX. MONTHLY MAX = 141,360 (26) MIN = 131,913 (1)
 * - MIN. MONTHLY PRECIP. = 5.75 INCHES

OPTIONAL FORM 89 (7-80)

FAX TRANSMITTAL

of pages 1

To B.H. Peck

From Steve Spaulding

Dept./Agency USBR

Phone # 816-983-3155

Fax #

Fax #

FEDERAL GOVERNMENT ADMINISTRATION

TOTAL P.01

13828
 13250
 578 = 1/2 (1) (223)
 (1.205) = X

MONTHLY RESERVOIR OPERATION JUL 2005

RESERVOIR HARLAN COUNTY				RIVER REPUBLICAN		DISTRICT KANSAS CITY				
MISSOURI RIVER REGION						U.S. ARMY CORPS OF ENGINEERS				
* * *	* * *	* * *	* * *	* * *	* * *	MEAN DISCHARGE IN CFS				* * *
ELEV.	STORAGE	PAN	EVAP.			OUTFLOW		INFLOW		
MSL	AC-FT	INCH	CFS			RIVER	FRCAL	NAP	RIVER	
1*1929.89+	140,946	0.45	108			0+	0+	0+	30	
2*1929.88	140,863	0.26	62			0	0	0	70	
3*1929.88	140,863	0.43	103			0	0	0	35	
4*1929.88	140,863	0.09-	22-			0	0	0	40	
5*1929.87	140,781	0.32	77			0	0	0	20	
6*1929.86	140,698	0.29	70			0	0	0	10	
7*1929.83	140,449	0.34	81			0	0	0	5	
8*1929.81	140,284	0.51	122			0	0	0	2-	
9*1929.77	139,952	0.62	148			0	0	0	85	
10*1929.82	140,366	0.26	62			0	0	0	40	
11*1929.77	139,952	0.36	86			0	0	0	20	
12*1929.81	140,284	0.25	60			0	0	0	30	
13*1929.80	140,201	0.24	57			0	0	0	20	
14*1929.78	140,035	0.31	74			0	0	0	15	
15*1929.77	139,952	0.31	74			0	0	0	10	
16*1929.75	139,787	0.31	74			0	0	0	5	
17*1929.72	139,538	0.51	122			0	0	0	3	
18*1929.72	139,538	0.47	112			0	0	0	20	
19*1929.71	139,456	0.22	52			0	0	0	10	
20*1929.68	139,373	0.34	81			0	0	0	5	
21*1929.66	139,042	0.40	95			0	0	0	2	
22*1929.65	138,959	0.29	69			0	0	0	5	
23*1929.62	138,710	0.48	114			0	0	0	2	
24*1929.59	138,462	0.68+	161+			0	0	0	2	
25*1929.55	138,131	0.60	142			0	0	0	2	
26*1929.63	138,793	0.42	99			0	0	0	375+	
27*1929.62	138,710	0.20	47			0	0	0	100	
28*1929.59	138,462	0.18	43			0	0	0	30	
29*1929.57	138,296	0.39	92			0	0	0	15	
30*1929.52	137,882	0.45	106			0	0	0	5	
31*1929.50-	137,717	0.47	111			0	0	0	2	
TOT* (DSF)		11.45	2726			0	0	0	1,015	
TOT* (AC-FT)			5408			0	0	0	2,013	
MN*1929.73		0.37	88			0	0	0	33	
REMARKS - RESERVOIR STORAGE EOM = 137,717 CHNG = -3395										
+ MAX. MONTHLY MAX = 140,946 (1) MIN = 137,717 (31)										
- MIN. MONTHLY PRECIP. = 2.81 INCHES										

2182

2013

$$169 = \frac{x}{12}(7)(8351)$$

$$.347 =$$

MONTHLY RESERVOIR OPERATION AUG 2005

RESERVOIR HARLAN COUNTY				RIVER REPUBLICAN		DISTRICT KANSAS CITY			
* MISSOURI RIVER REGION						U.S. ARMY CORPS OF ENGINEERS			
* ELEV.		* STORAGE	* PAN	* EVAP.	MEAN DISCHARGE IN CFS				
* MSL		* AC-FT	* INCH	* CFS	OUTFLOW		INFLOW		
					RIVER	FRCAL	NAP	RIVER	
1*	1929.49+	137,634	0.27	73	0+	0+	0+	2-	
2*	1929.46	137,385	0.36	97	0	0	0	2	
3*	1929.44	137,220	0.50	135	0	0	0	50	
4*	1929.43	137,137	0.48	129	0	0	0	80	
5*	1929.38	136,723	0.24	65	0	0	0	10	
6*	1929.35	136,474	0.29	78	0	0	0	5	
7*	1929.34	136,392	0.26	70	0	0	0	3	
8*	1929.33	136,309	0.65	175	0	0	0	3	
9*	1929.31	136,143	0.30	81	0	0	0	2	
10*	1929.30	136,060	0.49	131	0	0	0	20	
11*	1929.28	135,895	0.32	86	0	0	0	5	
12*	1929.27	135,812	0.31	83	0	0	0	5	
13*	1929.27	135,812	0.90+	241+	0	0	0	5	
14*	1929.26	135,646	0.24	64	0	0	0	20	
15*	1929.24	135,563	0.18	48	0	0	0	5	
16*	1929.22	135,398	0.21	56	0	0	0	3	
17*	1929.23	136,557	0.22	59	0	0	0	100	
18*	1929.43	137,137	0.26	70	0	0	0	830+	
19*	1929.43	137,137	0.31	84	0	0	0	160	
20*	1929.45	137,303	0.14	38	0	0	0	150	
21*	1929.44	137,220	0.10-	27-	0	0	0	30	
22*	1929.43	137,137	0.17	46	0	0	0	20	
23*	1929.44	137,220	0.26	70	0	0	0	20	
24*	1929.43	137,137	0.11	30	0	0	0	25	
25*	1929.42	137,054	0.10	27	0	0	0	10	
26*	1929.49	137,634	0.20	54	0	0	0	340	
27*	1929.46	137,385	0.17	46	0	0	0	100	
28*	1929.45	137,303	0.25	68	0	0	0	30	
29*	1929.43	137,137	0.27	73	0	0	0	10	
30*	1929.41	136,971	0.18	49	0	0	0	5	
31*	1929.41	136,971	0.30	81	0	0	0	5	
TOT*	(DSF)		9.04	2431	0	0	0	2,055	
TOT*	(AC-FT)			4821	0	0	0	4,076	
MN*	1929.38		0.29	78	0	0	0	66	
REMARKS - RESERVOIR STORAGE EOM = 136,971 CHNG = -745									
+ MAX. MONTHLY MAX = 137,634 (1) MIN = 135,398 (16)									
- MIN. MONTHLY PRECIP. = 3.03 INCHES									

MONTHLY RESERVOIR OPERATION SEP 2005

RESERVOIR
HARLAN COUNTYRIVER
REPUBLICANDISTRICT
KANSAS CITY

MISSOURI RIVER REGION

U.S. ARMY CORPS OF ENGINEERS

*	* ELEV. * MSL	* STORAGE * AC-FT	* PAN * INCH	* EVAP. * CFS	MEAN DISCHARGE IN CFS			* INFLOW * RIVER	*
					OUTFLOW RIVER	FRCAL NAP			
1*	1929.38+	136,723	0.22	79	0+	0+	0+	5	*
2*	1929.33	136,309	0.22	78	0	0	0	5	*
3*	1929.31	136,143	0.26	91	0	0	0	5	*
4*	1929.29	135,978	0.35	119	0	0	0	5	*
5*	1929.27	135,812	0.32	118	0	0	0	5	*
6*	1929.29	135,978	0.41	138	0	0	0	20	*
7*	1929.28	135,895	0.20	72	0	0	0	20	*
8*	1929.26	135,729	0.37	125	0	0	0	50+	*
9*	1929.25	135,646	0.30	103	0	0	0	10	*
10*	1929.21	135,315	0.37	125	0	0	0	5	*
11*	1929.17	134,984	0.38	128	0	0	0	5	*
12*	1929.15	134,818	0.45	149	0	0	0	5	*
13*	1929.15	134,818	0.22	78	0	0	0	5	*
14*	1929.10	134,404	0.56+	183+	0	0	0	5	*
15*	1929.09	134,321	0.20	72	0	0	0	2-	*
16*	1929.06	134,073	0.19	68	0	0	0	5	*
17*	1929.01	133,659	0.21	75	0	0	0	5	*
18*	1929.00	133,576	0.21	75	0	0	0	2	*
19*	1929.00	133,576	0.09-	38-	0	0	0	2	*
20*	1929.00	133,576	0.21	75	0	0	0	2	*
21*	1928.98	133,418	0.26	90	0	0	0	2	*
22*	1928.96	133,259	0.34	115	0	0	0	2	*
23*	1928.90	132,784	0.21	75	0	0	0	2	*
24*	1928.92	132,942	0.14	53	0	0	0	20	*
25*	1928.90	132,784	0.31	105	0	0	0	10	*
26*	1928.90	132,784	0.20	71	0	0	0	5	*
27*	1928.87	132,546	0.20	71	0	0	0	5	*
28*	1928.84	132,309	0.15	56	0	0	0	5	*
29*	1928.82	132,150	0.38	126	0	0	0	5	*
30*	1928.78-	131,834	0.19	68	0	0	0	5	*

TOT (CFS) = 8.12 TOT (AC-FT) = 0.00

MIN 1929.08 0.27 94 0 0 0 8

REMARKS - RESERVOIR STORAGE FROM 131,834 TO 136,723 (1) MEN = 131,834 (38)
 MAX. MONTHLY INFL. = 136,723 (1) MEN = 131,834 (38)
 MIN. MONTHLY INFL. = 0.00 CFS

MONTHLY RESERVOIR OPERATION OCT 2005

RESERVOIR
HARLAN COUNTYRIVER
REPUBLICANDISTRICT
KANSAS CITY

MISSOURI RIVER REGION

U.S. ARMY CORPS OF ENGINEERS

* ELEV. *		STORAGE *	PAN *	EVAP. *	MEAN DISCHARGE IN CFS			
MSL	AC-FT	INCH	CFS	RIVER	FRCAL	NAP	INFLOW RIVER	
1*1928.77	131,754	0.20	68	0+	0+	0+	20	
2*1928.77	131,754	0.13	45	0	0	0	20	
3*1928.76	131,517	0.52+	176+	0	0	0	20	
4*1928.75	131,596	0.52	176	0	0	0	20	
5*1928.76	131,675	0.13	45	0	0	0	30	
6*1928.68	131,042	0.33	112	0	0	0	10	
7*1928.65	130,804	0.15	51	0	0	0	5	
8*1928.62	130,566	0.26	88	0	0	0	5	
9*1928.59	130,329	0.17	57	0	0	0	2-	
10*1928.59	130,329	0.13	44	0	0	0	10	
11*1928.60	130,408	0.35	118	0	0	0	90	
12*1928.66	130,883	0.02-	7-	0	0	0	200+	
13*1928.66	130,883	0.12	40	0	0	0	75	
14*1928.65	130,804	0.17	57	0	0	0	30	
15*1928.62	130,566	0.23	77	0	0	0	10	
16*1928.61	130,487	0.21	71	0	0	0	5	
17*1928.62	130,566	0.10	34	0	0	0	10	
18*1928.61	130,487	0.18	61	0	0	0	5	
19*1928.58	130,250	0.34	114	0	0	0	2	
20*1928.62	130,566	0.09	30	0	0	0	100	
21*1928.62	130,566	0.10	34	0	0	0	50	
22*1928.59	130,329	0.10	34	0	0	0	30	
23*1928.60	130,408	0.13	44	0	0	0	40	
24*1928.57	130,170	0.13	44	0	0	0	10	
25*1928.56	130,091	0.13	44	0	0	0	5	
26*1928.55	130,012	0.10	34	0	0	0	5	
27*1928.53	129,854	0.10	34	0	0	0	5	
28*1928.51	129,695	0.10	34	0	0	0	5	
29*1928.51	129,695	0.23	77	0	0	0	10	
30*1928.52	129,774	0.13	44	0	0	0	15	
31*1928.51	129,695	0.13	44	0	0	0	10	
TOT* (DSF) *		5.73	1932	0	0	0	854	
TOT* (AC-FT) *			3831	0	0	0	1,694	
MN*1928.62 *		0.18	62	0	0	0	28	

REMARKS - RESERVOIR STORAGE EOM = 129,695 CHNG = -2138
 + MAX. MONTHLY MAX = 131,754 (1) MIN = 129,695 (28)
 - MIN. MONTHLY PRECIP. = 1.46 INCHES

To: B. Pack

MONTHLY RESERVOIR OPERATION NOV 2005

RESERVOIR
HARLAN COUNTYRIVER
REPUBLICANDISTRICT
KANSAS CITY

MISSOURI RIVER REGION

U.S. ARMY CORPS OF ENGINEERS

* ELEV. * * MSL *		* STORAGE * * AC-FT *		* PAN EVAP. * * INCH CFS *		* MEAN DISCHARGE IN CFS *			
						* OUTFLOW *		* INFLOW *	
						RIVER	FRCAL	NAP	RIVER
1*1928.50+*	129,616	* 0.09+	31+*	0+	0+	0+*		3	*
2*1928.48 *	129,458	* 0.09	31 *	0	0	0 *		2	*
3*1928.47 *	129,378	* 0.09	31 *	0	0	0 *		1-	*
4*1928.47 *	129,378	* 0.09	31 *	0	0	0 *		1	*
5*1928.45 *	129,220	* 0.09	31 *	0	0	0 *		1	*
6*1928.46 *	129,299	* 0.09	31 *	0	0	0 *		1	*
7*1928.44 *	129,141	* 0.09	31 *	0	0	0 *		1	*
8*1928.43 *	129,062	* 0.09	31 *	0	0	0 *		1	*
9*1928.44 *	129,141	* 0.09	31 *	0	0	0 *		1	*
10*1928.42 *	128,982	* 0.09	31 *	0	0	0 *		1	*
11*1928.41 *	128,903	* 0.09	31 *	0	0	0 *		1	*
12*1928.41 *	128,903	* 0.09	31 *	0	0	0 *		1	*
13*1928.40 *	128,824	* 0.09	31 *	0	0	0 *		1	*
14*1928.36 *	128,507	* 0.09	31 *	0	0	0 *		1	*
15*1928.36 *	128,507	* 0.09	31 *	0	0	0 *		2	*
16*1928.35 *	128,428	* 0.09	31 *	0	0	0 *		2	*
17*1928.33 *	128,270	* 0.09	31 *	0	0	0 *		2	*
18*1928.32 *	128,190	* 0.09	31 *	0	0	0 *		2	*
19*1928.35 *	128,428	* 0.09	31 *	0	0	0 *		2	*
20*1928.30 *	128,032	* 0.09	31 *	0	0	0 *		2	*
21*1928.31 *	128,111	* 0.09	31 *	0	0	0 *		2	*
22*1928.29 *	127,953	* 0.09	31 *	0	0	0 *		2	*
23*1928.31 *	128,111	* 0.09	31 *	0	0	0 *		2	*
24*1928.29 *	127,953	* 0.09	31 *	0	0	0 *		2	*
25*1928.28 *	127,874	* 0.09	31 *	0	0	0 *		2	*
26*1928.27 *	127,794	* 0.09	31 *	0	0	0 *		2	*
27*1928.27 *	127,794	* 0.09	31 *	0	0	0 *		10	*
28*1928.42 *	128,982	* 0.09	31 *	0	0	0 *		20	*
29*1928.36 *	128,507	* 0.09	31 *	0	0	0 *		50+	*
30*1928.31 *	128,111	* 0.09	31 *	0	0	0 *		5	*
* * *			*			*			*
TOT (DSF) *		2.70	925 *	0	0	0 *		126	*
TOT (AC-FT) *			1834 *	0	0	0 *		250	*
* MN*1928.38 *		0.09	31 *	0	0	0 *		4	*
* REMARKS - RESERVOIR STORAGE	EOM = 128,111	CHNG = -1584							*
* + MAX. MONTHLY	MAX = 129,616 (1)	MIN = 127,794 (26)							*
* - MIN. MONTHLY PRECIP. =	0.67 INCHES								*

$$\frac{Y}{12}(7)(7985.5) = 592$$

$$= 1.287$$

TOTAL P.01

MONTHLY RESERVOIR OPERATION DEC 2005

RESERVOIR
HARLAN COUNTYRIVER
REPUBLICANDISTRICT
KANSAS CITY

MISSOURI RIVER REGION

U.S. ARMY CORPS OF ENGINEERS

* ELEV. *	* STORAGE *	* PAN *	* EVAP. *	MEAN DISCHARGE IN CFS			
* MSL *	* AC-FT *	* INCH *	* CFS *	OUTFLOW		INFLOW	
				RIVER	FRCAL	NAP	RIVER
1*1928.34+*	128,349 *	0.04	12 *	0+	0+	0+*	5-
2*1928.28-*	127,874 *	0.04+	14+*	0	0	0 *	5
3*1928.32 *	128,190 *	0.04	14 *	0	0	0 *	10
4*1928.31 *	128,111 *	0.04	12-*	0	0	0 *	15
5*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	10
6*1928.30 *	128,032 *	0.04	12 *	0	0	0 *	10
7*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	15
8*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	10
9*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	10
10*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	10
11*1928.30 *	128,032 *	0.04	12 *	0	0	0 *	10
12*1928.30 *	128,032 *	0.04	12 *	0	0	0 *	10
13*1928.29 *	127,953 *	0.04	12 *	0	0	0 *	15
14*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	10
15*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	10
16*1928.31 *	128,111 *	0.04	13 *	0	0	0 *	15
17*1928.30 *	128,032 *	0.04	12 *	0	0	0 *	10
18*1928.30 *	128,032 *	0.04	12 *	0	0	0 *	10
19*1928.29 *	127,953 *	0.04	12 *	0	0	0 *	10
20*1928.29 *	127,953 *	0.04	12 *	0	0	0 *	10
21*1928.29 *	127,953 *	0.04	12 *	0	0	0 *	10
22*1928.30 *	128,032 *	0.04	12 *	0	0	0 *	10
23*1928.29 *	127,953 *	0.04	12 *	0	0	0 *	10
24*1928.30 *	128,032 *	0.04	12 *	0	0	0 *	15
25*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	15
26*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	15
27*1928.30 *	128,032 *	0.04	12 *	0	0	0 *	15
28*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	20
29*1928.30 *	128,032 *	0.04	12 *	0	0	0 *	20
30*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	20
31*1928.31 *	128,111 *	0.04	12 *	0	0	0 *	25+
TOT* (DSF) *		1.25	384 *	0	0	0 *	385
TOT* (AC-FT) *			761 *	0	0	0 *	764
MN*1928.30 *		0.04	12 *	0	0	0 *	12

REMARKS - RESERVOIR STORAGE EOM = 128,111 CHNG = 0
 + MAX. MONTHLY MAX = 128,349 (1) MIN = 127,874 (2)
 - MIN. MONTHLY PRECIP. = 0.25

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL

of pages 1

To Bill Peck

From

Steve Spaulding

Dept./Agency

USBR

Phone #

816-983-3155

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TOTAL P.01