

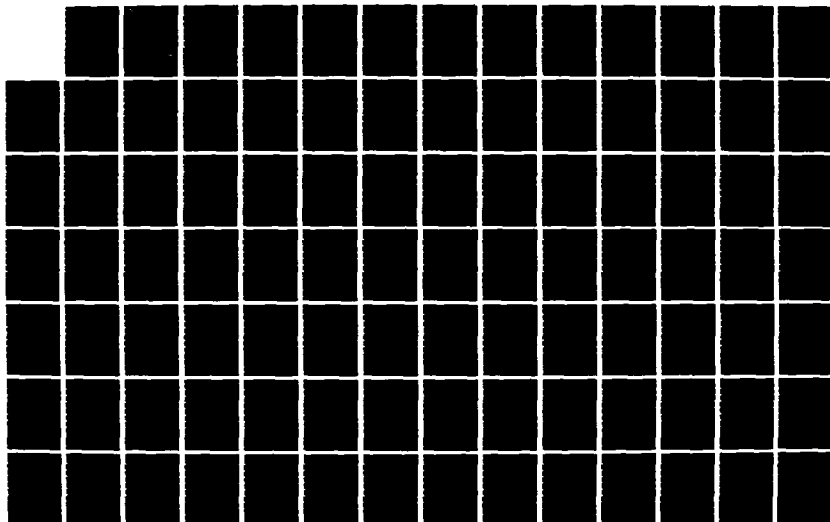
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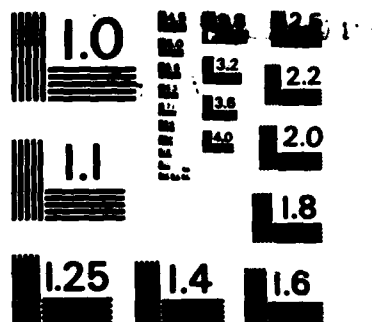
PERFORMANCE MONITORING SYSTEM: SUMMARY OF LOCK
STATISTICS FOR APRIL-JUNE 1983 (U) ARMY ENGINEER INST
FOR WATER RESOURCES FORT BELVOIR VA M V FLEMING ET AL.
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Water Resources

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Performance Monitoring System: Summary of Lock Statistics for April - June 1983

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Summary Report 84-SR-1

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) lock Performance Monitoring System PMS statistics		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Lock Performance Monitoring data are collected at Corps locks by lock operators from observation and information provided by waterway operator. This quarterly summary is an overview of the collected statistics.		

**PERFORMANCE MONITORING SYSTEM
SUMMARY OF LOCK STATISTICS
APRIL 1983 - JUNE 1983**

Marilyn V. Fleming
and
Kevin A. Alexander

U.S. Army Corps of Engineers
Water Resources Support Center
Institute for Water Resources
Ft. Belvoir, Virginia 22060

April 1984

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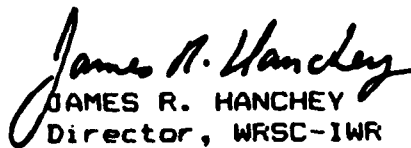
Summary Report 84-SR-1

PREFACE

This report is a product of the Navigation Data Management and Analysis Branch of the U. S. Army Engineer Institute for Water Resources (WRSC-IWR). The information is compiled from statistics collected at the Corps locks in support of the lock Performance Monitoring System (FMS).

The study is managed by Mrs. Marilyn V. Fleming under the supervision of Mr. Francis M. Sharp, Chief of the WRSC-IWR Navigation Data Management and Analysis Branch, and Dr. Lloyd G. Antle, Chief of the WRSC-IWR Navigation Division. The Office of the Chief of Engineers (OCE) sponsors are Mr. Henry W. Campbell Jr., DAEN-CWD-M, and Mr. Robert M. Daniel, DAEN-CWF-S.

Requests to update or change the distribution, comments and questions can be directed to Frank Sharp (202-355-2240 or FTS 385-2240) or Marilyn Fleming at the same telephone number. The information is produced and distributed quarterly.


JAMES R. HANCHEY
Director, WRSC-IWR

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Introduction

The lock Performance Monitoring System (PMS) is a part of the Inland Navigation Systems Analysis (INSA) program and encompasses the collection, editing, maintenance and analysis of data collected at all Corps-owned and operated locks. The data have been collected since March of 1975 and consist of information describing the traffic through the locks as well as the physical aspects of lockages. The quarterly summary of selected statistics presented in the appendix provides an overview of the traffic and operation at each lock. The quarterly report is presented as a set of three tables for each Corps District. Information reported for each lock and chamber includes:

- 1) A listing providing the name of the lock, the river on which the lock is and its dimensions. In those cases where there is no quarterly information, this table will be the only display for the district.
- 2) A table providing, by direction and total, the number of tows, commercial vessels other than tows, recreational vessels, barges (empty and loaded), commercial lockages, recreational lockages and tonnage. *and*
- 3) A summary of approach, entry chambering and exit times (maximum, minimum and average) and the number of delays, total delay time, maximum delay time and average delay time.

Although the summary information will be computed and displayed for chambers at which there is data for only one or two months of the quarter, the fact is noted on the report.

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
B2	NEW ORLEANS	LOWER MISS VALLEY	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
GULF INTRACOASTAL	01-PORT ALLEN LOCK	1202/0084/15.0
	02-BAYOU SORREL LOCK	0800/0056/16.0
	03-INNER HBDR NAVIGATION CANL LK	0626/0074/40.0
	04-ALGERS LOCK	0760/0075/15.0
	05-HARVEY LOCK	0426/0075/14.0
	06-BAYOU BOEUF LOCK	1148/0075/15.0
	07-VERMILLION LOCK	1195/0056/14.0
	08-CALCASIEU LOCK	1194/0075/15.0
ATCHAFALAYA RIVER	11-BERNICK LOCK	0300/0045/11.0
GULF INTRACOASTAL	21-SCHOONER BAYOU CONTROL STRUCT	9999/0075/14.0
	22-CATFISH POINT CONTROL STRUCT	9999/0056/16.0
	23-CALCASIEU SALT WATER BARRIER	9999/0056/15.0
BAYOU TECHE	31-KEYSTONE LOCK	0160/0036/12.0
FRESHWATER BAYOU OLD RIVER	41-FRESHWATER BAYOU LOCK	0590/0084/15.0
	51-OLD RIVER LOCK	1200/0075/15.0

NO DATA RECORDED ON SURVRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
83	ST. LOUIS	LOWER MISS VALLEY	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
KASKASKIA RIVER	01-KASKASKIA RIVER NAVIGATION LK	0610/0004/12.0
MISSISSIPPI RIVER	24-LOCK & DAM 24	0610/0110/12.0
	25-LOCK & DAM 25	0610/0110/12.0
	26-LOCK & DAM 26	0610/0110/12.0
	26-LOCK & DAM 26 AUX 1	0300/0110/12.0
	27-CHAIN OF ROCKS LOCK & DAM 27	1210/0110/12.0
	27-CHAIN OF ROCKS LK & DN 27 AXI	0610/0110/12.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ENDC 83	DISTRICT NAME ST. LOUIS	DIVISION NAME LOWER MISS VALLEY					MONTHS REPORTED						
							4/83	5/83			6/83		
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LOCKGS RECRTN	LOCKGS OTHER	LOCKGS TOTAL	TONNAGE (TONS) (NAV, DPN, ETC)	
KASKASKIA RIVER													
KASKASKIA RIVER NAVIGATION LR	000												
UPBOUND STATISTICS	112	120	52	284	411	0	411	166	62	7	235	0	
DOWNBOUND STATISTICS	111	135	66	312	0	425	425	177	69	6	252	630	
TOTALS	223	255	118	596	411	425	836	343	131	13	487	630	
MISSISSIPPI RIVER													
LOCK & DAM 24	000												
UPBOUND STATISTICS	493	64	24	581	4876	1300	6256	861	78	22	961	2031	
DOWNBOUND STATISTICS	497	67	24	588	138	5716	5854	881	75	18	974	8151	
TOTALS	990	131	48	1169	5014	7096	12110	1742	153	40	1935	10182	
LOCK & DAM 25	000												
UPBOUND STATISTICS	490	124	34	648	4874	1361	6235	862		25	982	1994	
DOWNBOUND STATISTICS	495	122	41	658	137	5706	5843	870	67	18	955	8133	
TOTALS	985	246	75	1306	5011	7067	12078	1732	192	43	1937	10127	
LOCK & DAM 26	000												
UPBOUND STATISTICS	650	1	12	671	6683	2407	9090	1274	0	7	1281	3615	
DOWNBOUND STATISTICS	661	3	10	674	342	8042	8384	1267	6	7	1274	11419	
TOTALS	1319	4	22	1345	7025	10449	17474	2541	0	14	2555	15034	
LOCK & DAM 26 AWT 1	000												
UPBOUND STATISTICS	352	38	58	448	1134	496	1630	725	27	13	775	952	
DOWNBOUND STATISTICS	751	45	56	852	277	1508	1781	761	36	23	820	2758	
TOTALS	703	83	114	900	1407	2004	3411	1486	63	46	1595	3710	
CHAIN OF ROCKS LOCK & DAM 27	000												
UPBOUND STATISTICS	1070	11	94	1175	8189	3057	11227	1102	6	10	1118	4756	
DOWNBOUND STATISTICS	1021	21	103	1145	629	9767	10396	1072	7	5	1084	14162	
TOTALS	2091	32	197	2320	8809	12824	21623	2174	13	15	2202	18918	

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

ERDC D3	DISTRICT NAME ST. LOUIS	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED 4/83 5/83 6/83		
------------	----------------------------	------------------------------------	-----------------------------------	--	--

RIVER/LOCK NAME	TONS	VESSL	VESSL	VESSL	BARGES	BARGES	BARGES	LOCKS	LOCKS	LOCKS	LOCKS	TONNAGE (TONS)
		RECRIM	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRIM	OTHER	TOTAL	
(NAV, OPN, ETC)												

MISSISSIPPI RIVER

CHAIN OF ROCKS LK & BN 27 AX1	000											
UPBOUND STATISTICS	319	46	110	475	550	150	716	400	27	17	452	233
DOWNBOUND STATISTICS	332	40	130	510	201	736	937	447	22	17	406	1097
TOTALS	651	86	240	985	751	886	1653	855	49	34	858	1330

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERIC DISTRICT NAME DIVISION NAME MONTHS REPORTED
83 ST. LOUIS LOWER MISS VALLEY 4/83 5/83 6/83

LOCK PROCESSING TIME (MIN.) : DELAYED DELAY DELAY DELAY
APPROACH ENTRY CHAMBER EXIT : VESSELS TIME AVG MAX
MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : (IN MINUTES)

KASKASKIA RIVER

KASKASKIA RIVER NAVIGATION L 1 5 26 1 4 22 5 7 24 1 4 21 : 22 507 23.0 45

MISSISSIPPI RIVER

LOCK & DAM 24 1 8 82 1 8 30 5 7 28 1 16 54 : 806 425192 527.5 9500

LOCK & DAM 25 1 8 115 1 8 30 3 6 27 1 15 47 : 1043 214991 206.1 12662

LOCK & DAM 26 1 3 60 1 9 43 4 9 24 1 11 54 : 1332 1712036 1285.3 11282

LOCK & DAM 26 AND 1 1 6 92 1 7 75 4 9 28 1 11 94 : 899 551681 681.9 10121

CHAIN OF ROCKS LOCK & DAM 27 1 9 63 1 7 30 5 10 89 1 6 29 : 1739 114240 65.7 682

CHAIN OF ROCKS LA & DM 27 AZ 1 6 49 1 3 35 5 10 33 1 3 29 : 384 5453 14.2 98

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4 83 THROUGH 6 83
 INSTITUTE FOR WATER RESOURCES

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ERDC 84	DISTRICT NAME VICKSBURG	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED 4 83 5 83 6 83
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RIVER	LOCK-LOCK NAME	LEN MID. DRAFT (FT/FT/FT)
DUCUITA/BLACK RIV	01-JONESVILLE LOCK & DAM	0655 0084 23.4
	02-COLUMBIA LOCK & DAM	0655 0084 27.4
	06-LOCK & DAM 6	0300/0055/17.4
	08-LOCK & DAM 8	0300/0055/19.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4.83 THROUGH 6.83
 INSTITUTE FOR WATER RESOURCES

EROC 84	DISTRICT NAME VICKSBURG	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED									
			4.83	5.83	6.83							
RIVER/LOCK NAME												
TONS	VESSL RECTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKS COMMER	LOCKS RECTN	LOCKS OTHER	LOCKS TOTAL	TONNAGE (TONS)	
(NAV, OPN, ETC)												
OUCHITA/BLACK RIV												
JONESVILLE LOCK & DAM	***											
UPBOUND STATISTICS	33	0	9	42	54	23	77	9	0	33	42	42
DOWNBOUND STATISTICS	25	0	2	27	22	56	78	4	0	34	38	114
TOTALS	60	0	11	79	76	79	155	13	0	67	80	156
COLUMBIA LOCK & DAM	***											
UPBOUND STATISTICS	27	2	3	32	33	17	56	31	1	4	36	21
DOWNBOUND STATISTICS	28	1	4	33	15	27	52	33	0	1	34	78
TOTALS	55	3	7	65	48	54	102	64	1	5	70	99
LOCK & DAM 6	*** ONLY THIRD MONTH REPORTED											
UPBOUND STATISTICS	0	0	1	1	0	0	0	0	0	2	2	0
DOWNBOUND STATISTICS	0	0	0	0	0	0	0	0	0	1	1	0
TOTALS	0	0	1	1	0	0	0	0	0	3	3	0
LOCK & DAM 8	*** ONLY THIRD MONTH REPORTED											
UPBOUND STATISTICS	0	11	1	12	0	0	0	2	5	2	9	0
DOWNBOUND STATISTICS	0	11	2	13	0	0	0	1	9	4	14	0
TOTALS	0	22	3	25	0	0	0	3	14	6	23	0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC B4	DISTRICT NAME VICKSBURG	DIVISION NAME LOWER MISS VALLEY	4/83	MONTHS REPORTED 5/83	6/83
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APPROACH		LOCK PROCESSING TIME (MIN.)								: DELAYED DELAY		DELAY	DELAY
		ENTRY		CHAMBER		EXIT		: VESSELS TIME		AVG	MAX		
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	(IN MINUTES)	

OUCHITA/BLACK RIV

JONESVILLE LOCK & DAM	1	4	10	1	3	25	1	3	18	2	6	20 :	2	25	12.5	23
COLUMBIA LOCK & DAM	1	5	19	1	6	16	5	13	30	5	7	20 :	0	0	0.0	0
LOCK & DAM 6	4	4	6	6	6	7	5	7	9	6	9	13 :	0	0	0.0	0
LOCK & DAM 8	1	3	10	1	4	10	4	9	20	2	6	12 :	9	36	4.0	10

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERDC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E3	NEW YORK	NORTH ATLANTIC	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
HUDSON RIVER	01-TROY LOCK & DAM	0493/0044/15.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
ES	NEW YORK	NORTH ATLANTIC	4/83	5/83	6/83

RIVER/LOCK NAME	TONS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LOCKGS	LOCKGS	LOCKGS	TONNAGE (KTONS)
		RECRIN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRIN	OTHER	TOTAL	

(NAV, OPN, ETC)

HUDSON RIVER

TROY LOCK & DAM	***											
UPBOUND STATISTICS	46	503	4	553	0	53	53	58	335	22	415	103
DOWNBOUND STATISTICS	43	230	5	278	41	7	44	50	171	23	244	1
TOTALS	89	733	9	831	41	56	97	108	506	45	659	104

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E3	NEW YORK	NORTH ATLANTIC	4/83	5/83	6/83

APPROACH		LOCK PROCESSING TIME (MIN.)						: DELAYED DELAY		DELAY	DELAY
		ENTRY		CHAMBER		EXIT		: VESSELS TIME		AVG	MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX
(IN MINUTES)											

HUDSON RIVER

TROY LOCK & DAM	2	8	25	2	5	20	5	10	20	1	4	10	:	95	1228	12.9	50
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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED	
E4	NORFOLK	NORTH ATLANTIC	4/83	5/83 6/83

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
DISMAL SWAMP	01-DEEP CREEK LOCK	0300/0052/12.0
	02-SOUTH MILLS LOCK	0300/0052/12.0
ATLANT INTRACOASTAL	11-GREAT BRIDGE GUARD LOCK	0600/0072/16.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC		MONTHS REPORTED								
				4/83	5/83	6/83						
RIVER/LOCK NAME	TONS	VESSEL RECRTM	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTM	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
DISMAL SWAMP												
DEEP CREEK LOCK	***											
UPBOUND STATISTICS	0	203	0	203	0	0	0	1	82	4	87	0
DOWNBOUND STATISTICS	0	219	0	219	0	0	0	1	130	3	134	0
TOTALS	0	422	0	422	0	0	0	2	212	7	221	0
SOUTH MILLS LOCK												
UPBOUND STATISTICS	0	288	0	288	0	0	0	3	144	3	150	0
DOWNBOUND STATISTICS	0	103	0	103	0	0	0	2	52	5	59	0
TOTALS	0	391	0	391	0	0	0	5	196	8	209	0
ATLANT INTRCOASTAL												
GREAT BRIDGE GUARD LOCK	***											
UPBOUND STATISTICS	145	2692	85	2922	97	83	180	227	925	38	1190	88
DOWNBOUND STATISTICS	157	650	88	895	80	131	211	231	327	32	590	120
TOTALS	302	3342	173	3817	177	214	391	458	1252	70	1780	208

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E4	NORFOLK	NORTH ATLANTIC	4/83	5/83	6/83

LOCK PROCESSING TIME (MIN.)												: DELAYED DELAY		DELAY		DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			: VESSELS TIME		AVG		MAX	
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	: (IN MINUTES)					

DISMAL SWAMP

DEEP CREEK LOCK	1	4	50	1	4	17	1	8	20	2	6	15	:	221	1126	5.1	120
SOUTH MILLS LOCK	1	2	16	1	3	15	3	11	17	2	3	13	:	209	7509	35.9	180

ATLANT INTRACOASTAL

GREAT BRIDGE GUARD LOCK	1	3	35	1	4	28	1	5	32	1	4	25	:	1784	7041	3.9	45
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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F1	BUFFALO	NORTH CENTRAL	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
BLK ROCK CH/TOMAHAWKA	01-BLACK ROCK LOCK	0650/0070/21.7

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F1	BUFFALO	NORTH CENTRAL	4/83	5/83	6/83

RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKS COMMER	LOCKS RECRTN	LOCKS OTHER	LOCKS TOTAL	TONNAGE (KTONS)
												(NAV, OPN, ETC)

BLK ROCK CH/TOMAMANDA

BLACK ROCK LOCK	***											
UPBOUND STATISTICS	4	1268	25	1297	5	0	5	128	356	19	503	0
DOWNBOUND STATISTICS	18	817	8	843	4	16	20	30	312	23	365	119
TOTALS	22	2085	33	2140	9	16	25	158	668	42	868	119

PERFORMANCE MONITORING SYSTEM (PHS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F1	BUFFALO	NORTH CENTRAL	4/83	5/83	6/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	:	(IN MINUTES)		

BLK ROCK CH/TONAWANDA

BLACK ROCK LOCK	1	1	15	1	1	15	1	12	20	1	1	12	:	881	3720	4.2	57
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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

ERDC F3	DISTRICT NAME DETROIT	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED		
			4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ST MARYS RIVER	01-MACARTHUR LOCK	0000/0000/31.0
	02-NEW POE LOCK	1200/0110/32.0
	03-DAVIS LOCK00	1350/0000/31.0
	04-SADIN LOCK00	1350/0000/31.0
THE INLAND ROUTE FOX RIVER	11-ALANSON LOCK	0000/0000/0000
	11-DE PERE LOCK & DAM	0146/0036/ 6.0
	12-LITTLE KAUKAUNA LOCK & DAM	0146/0036/ 6.0
	13-RAPIDE CROCHE LOCK & DAM	0146/0036/ 6.0
	21-KAUKAUNA LOCK 1	0144/0035/ 6.0
	22-KAUKAUNA LOCK 2	0144/0035/ 6.0
	23-KAUKAUNA LOCK 3	0144/0037/ 6.0
	24-KAUKAUNA LOCK 4	0144/0037/ 6.0
	25-KAUKAUNA LOCK 5	0144/0036/ 6.0
	32-LITTLE CHUTE LOCK 2	0142/0035/ 6.0
	33-LITTLE CHUTE COMB LOCKS UPPER	0144/0037/ 6.0
	34-LITTLE CHUTE COMB LOCKS LOWER	0146/0036/ 6.0
	35-CEDARS LOCK & DAM	0144/0035/ 6.0
	41-APPLETON LOCK 1	0145/0035/ 6.0
	42-APPLETON LOCK 2	0145/0035/ 6.0
	43-APPLETON LOCK 3	0144/0035/ 6.0
	44-APPLETON LOCK 4	0144/0035/ 6.0
	51-WENASHA LOCK & DAM	0144/0035/ 6.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC F3	DISTRICT NAME DETROIT	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED			
			4/83	5/83	6/83	

RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGE EMPTY	BARGE FULL	BARGE TOTAL	LOCKGS CONNER	LOCKGS RECRTN	LOCKGS OTHER	LOCKGS TOTAL	TONNAGE (TONS)
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(NAV, DPM, ETC)

ST MARYS RIVER

	*** ONLY FIRST MONTH REPORTED											
MACARTHUR LOCK												
UPBOUND STATISTICS	67	0	11	78	59	0	67	82	0	13	95	114
DOWNBOUND STATISTICS	92	1	9	102	3	103	106	106	0	10	116	1798
TOTALS	159	1	20	180	62	111	173	188	0	23	211	1912

	*** ONLY FIRST MONTH REPORTED											
NEW POE LOCK												
UPBOUND STATISTICS	140	0	16	156	115	28	143	159	0	4	163	395
DOWNBOUND STATISTICS	103	0	24	127	13	97	110	120	0	11	131	2928
TOTALS	243	0	40	283	128	125	253	279	0	15	294	3323

DAVIS LOCK#0 NO DATA RECORDED FOR THIS LOCK

SAGIN LOCK#0 NO DATA RECORDED FOR THIS LOCK

THE INLAND ROUTE

ALABAMA LOCK NO DATA RECORDED FOR THIS LOCK

FOX RIVER

DE PERE LOCK & DAM NO DATA RECORDED FOR THIS LOCK

LITTLE KANKAUNA LOCK & DAM NO DATA RECORDED FOR THIS LOCK

RAPIDE CROCHE LOCK & DAM NO DATA RECORDED FOR THIS LOCK

KANKAUNA LOCK 1 NO DATA RECORDED FOR THIS LOCK

KANKAUNA LOCK 2 NO DATA RECORDED FOR THIS LOCK

KANKAUNA LOCK 3 NO DATA RECORDED FOR THIS LOCK

KANKAUNA LOCK 4 NO DATA RECORDED FOR THIS LOCK

KANKAUNA LOCK 5 NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED									
F3	DETROIT	NORTH CENTRAL	4/83	5/83	6/83							
RIVER/LOCK NAME	TONS	VESSEL RECRYN	VESSEL OTHER	VESSEL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS CONNER	LCKGES RECRYN	LCKGES OTHER	LCKGES TOTAL	TOMNAGE (KTONS)
												(NAV, OPN, ETC)

FOX RIVER

LITTLE CHUTE LOCK 2 NO DATA RECORDED FOR THIS LOCK

LITTLE CHUTE COMB LOCKS UPPER NO DATA RECORDED FOR THIS LOCK

LITTLE CHUTE COMB LOCKS LOWER NO DATA RECORDED FOR THIS LOCK

CEBAPS LOCK & DAM NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 1 NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 2 NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 3 NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 4 NO DATA RECORDED FOR THIS LOCK

KENASHA LOCK & DAM NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERDC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F3	DETROIT	NORTH CENTRAL	4/83	5/83	6/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX	
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

ST MARYS RIVER

MACARTHUR LOCK	1	13	49	:	1	6	20	:	8	13	160	:	1	6	25	:	209	1616	7.7	110
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NEW POE LOCK	1	12	58	:	1	7	39	:	3	15	38	:	1	7	46	:	294	2468	8.4	122
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DAVIS LOCK00	NO DATA RECORDED FOR THIS LOCK																			
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SABIN LOCK00	NO DATA RECORDED FOR THIS LOCK																			
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THE INLAND ROUTE

ALANSON LOCK	NO DATA RECORDED FOR THIS LOCK																			
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FOX RIVER

DE PERE LOCK & DAM	NO DATA RECORDED FOR THIS LOCK																			
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LITTLE KAUKAUMA LOCK & DAM	NO DATA RECORDED FOR THIS LOCK																			
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RAPIDE CROCHE LOCK & DAM	NO DATA RECORDED FOR THIS LOCK																			
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KAUKAUMA LOCK 1	NO DATA RECORDED FOR THIS LOCK																			
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KAUKAUMA LOCK 2	NO DATA RECORDED FOR THIS LOCK																			
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KAUKAUMA LOCK 3	NO DATA RECORDED FOR THIS LOCK																			
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KAUKAUMA LOCK 4	NO DATA RECORDED FOR THIS LOCK																			
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KAUKAUMA LOCK 5	NO DATA RECORDED FOR THIS LOCK																			
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LITTLE CHUTE LOCK 2	NO DATA RECORDED FOR THIS LOCK																			
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LITTLE CHUTE COMB LOCKS UPPER	NO DATA RECORDED FOR THIS LOCK																			
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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F3	DETROIT	NORTH CENTRAL	4/83	5/83	6/83

LOCK PROCESSING TIME (MIN.)												: DELAYED DELAY		DELAY		DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			: VESSELS TIME		AVG		MAX	
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	: (IN MINUTES)					

FOX RIVER

LITTLE CHUTE COMB LOCKS LOWER NO DATA RECORDED FOR THIS LOCK

CEDARS LOCK & DAM NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 1 NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 2 NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 3 NO DATA RECORDED FOR THIS LOCK

APPLETON LOCK 4 NO DATA RECORDED FOR THIS LOCK

MENASHA LOCK & DAM NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

ERDC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	4/83	MONTHS REPORTED 5/83	6/83
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RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ILLINOIS	01-THOMAS J O'BRIEN	1200/0110/12.0
	02-LOCKPORT LOCK	1200/0110/12.0
	03-BRANDON ROAD LOCK & DAM	1200/0110/12.0
	04-DRESDEN ISLAND LOCK & DAM	1200/0110/12.0
	05-MARSTELLES LOCK & DAM	1200/0110/12.0
	06-STARVED ROCK LOCK & DAM	1200/0110/12.0
	07-PEORIA LOCK & DAM	1200/0110/12.0
	08-LAGRANGE LOCK & DAM	1200/0110/12.0
MISSISSIPPI RIVER	11-LOCK & DAM 11	1350/0110/10.0
	12-LOCK & DAM 12	1350/0110/10.0
	13-LOCK & DAM 13	1350/0110/10.0
	14-LOCK & DAM 14	1350/0110/10.0
	14-LOCK & DAM 14 AUXILIARY 1	1350/0110/10.0
	15-LOCK & DAM 15	1350/0110/10.0
	15-LOCK & DAM 15 AUXILIARY 1	1350/0110/10.0
	16-LOCK & DAM 16	1350/0110/10.0
	17-LOCK & DAM 17	1350/0110/10.0
	18-LOCK & DAM 18	1350/0110/10.0
	19-LOCK & DAM 19	1350/0110/10.0
	19-LOCK & DAM 19 AUXILIARY 1	1350/0110/10.0
	20-LOCK & DAM 20	1350/0110/10.0
	21-LOCK & DAM 21	1350/0110/10.0
	22-LOCK & DAM 22	1350/0110/10.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND			DIVISION NAME NORTH CENTRAL				MONTHS REPORTED					
								4/83	5/83		6/83		

RIVER/LOCK NAME	TONS	VESSEL	VESSEL	VESSEL	BARGS	BARGS	BARGES	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)	
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL (NAV, OPN, ETC)		

ILLINOIS													
THOMAS J O'BRIEN	***												
UPBOUND STATISTICS	377	2568	74	3019	469	513	982	445	896	16	1357	729	
DOWNBOUND STATISTICS	354	1911	78	2343	337	609	946	429	630	14	1073	997	
TOTALS	731	4479	152	5362	806	1122	1928	874	1526	30	2430	1726	
LOCKPORT LOCK	***												
UPBOUND STATISTICS	459	119	56	634	540	1860	2400	525	66	2	593	2831	
DOWNBOUND STATISTICS	487	65	49	601	1383	1025	2408	552	44	2	598	1613	
TOTALS	946	184	105	1235	1923	2885	4808	1077	110	4	1191	4444	
BRANDON ROAD LOCK & DAM	***												
UPBOUND STATISTICS	447	145	94	686	632	1907	2539	574	83	4	661	2905	
DOWNBOUND STATISTICS	473	70	75	618	1405	1096	2501	570	52	1	623	1724	
TOTALS	920	215	169	1304	2037	3003	5040	1144	135	5	1284	4629	
DRESDEN ISLAND LOCK & DAM	***												
UPBOUND STATISTICS	421	263	39	723	730	1918	2648	527	143	7	677	2939	
DOWNBOUND STATISTICS	428	243	39	710	1295	1308	2603	546	119	8	673	2158	
TOTALS	849	506	78	1433	2025	3226	5251	1073	262	15	1350	5097	
MARSELLES LOCK & DAM	***												
UPBOUND STATISTICS	399	208	43	650	1001	1713	2714	540	109	16	665	2775	
DOWNBOUND STATISTICS	413	230	35	678	1047	1648	2695	539	116	17	672	2651	
TOTALS	812	438	78	1328	2048	3361	5409	1079	225	33	1337	5426	
STARVED ROCK LOCK & DAM	***												
UPBOUND STATISTICS	417	226	45	688	1253	1730	2983	583	107	9	699	2794	
DOWNBOUND STATISTICS	444	263	30	737	1039	1939	2978	584	108	7	699	3039	
TOTALS	861	489	75	1425	2292	3669	5961	1167	215	16	1398	5833	
PEORIA LOCK & DAM	***												
UPBOUND STATISTICS	462	129	60	651	2063	1996	4059	85	63	463	611	3256	
DOWNBOUND STATISTICS	487	118	38	643	1034	3003	4037	100	49	460	609	4521	
TOTALS	949	247	98	1294	3097	4999	8096	185	112	923	1220	7777	

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERDC F4	DISTRICT NAME ROCK ISLAND		DIVISION NAME NORTH CENTRAL				MONTHS REPORTED					
						4/83	5/83			6/83		

RIVER/LOCK NAME	TOWS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	
(NAV, OPN, ETC)												

ILLINOIS												
LAGRANGE LOCK & DAM	***											
UPBOUND STATISTICS	452	17	11	480	2551	1523	4074	23	9	448	480	2557
DOWNBOUND STATISTICS	475	9	8	492	498	3587	4085	23	5	477	505	5351
TOTALS	927	26	19	972	3049	5110	8159	46	14	925	985	7908
MISSISSIPPI RIVER												
LOCK & DAM 11	***											
UPBOUND STATISTICS	324	340	67	731	2691	1000	3691	543	253	8	804	1456
DOWNBOUND STATISTICS	333	329	64	726	241	3167	3408	525	240	8	773	4573
TOTALS	657	669	131	1457	2932	4167	7099	1068	493	16	1577	6029
LOCK & DAM 12	***											
UPBOUND STATISTICS	359	344	12	715	3015	1081	4096	557	249	7	813	1578
DOWNBOUND STATISTICS	362	357	15	734	224	3540	3764	561	263	7	831	5102
TOTALS	721	701	27	1449	3239	4621	7860	1118	512	14	1644	6680
LOCK & DAM 13	***											
UPBOUND STATISTICS	363	378	20	761	3020	1084	4104	570	244	4	818	1582
DOWNBOUND STATISTICS	368	327	17	712	239	3556	3795	586	212	3	801	5128
TOTALS	731	705	37	1473	3259	4640	7899	1156	456	7	1619	6710
LOCK & DAM 14	***											
UPBOUND STATISTICS	472	198	19	689	3794	1266	5060	766	154	6	926	1828
DOWNBOUND STATISTICS	483	190	19	692	242	4407	4649	759	160	6	925	6065
TOTALS	955	388	38	1381	4036	5673	9709	1525	314	12	1851	7893
LOCK & DAM 14 AUXILIARY 1	***	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS	0	903	0	903	0	0	0	0	213	0	213	0
DOWNBOUND STATISTICS	0	1074	0	1074	0	0	0	0	255	0	255	0
TOTALS	0	1977	0	1977	0	0	0	0	468	0	468	0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERDC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED										
			4/83			5/83			6/83				
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
MISSISSIPPI RIVER													
LOCK & DAM 15		***											
UPBOUND STATISTICS		458	20	44	522	3592	1316	4908	817	29	6	852	1909
DOWNBOUND STATISTICS		458	26	45	529	265	4183	4448	793	34	3	830	5991
TOTALS		916	46	89	1051	3857	5499	9356	1610	63	9	1682	7900
LOCK & DAM 15 AUXILIARY 1		***											
UPBOUND STATISTICS		64	648	47	759	51	31	82	109	337	4	450	44
DOWNBOUND STATISTICS		61	698	41	800	41	38	79	101	333	4	438	53
TOTALS		125	1346	88	1559	92	69	161	210	670	8	888	97
LOCK & DAM 16		***											
UPBOUND STATISTICS		490	127	37	654	3904	1393	5297	832	127	12	971	2038
DOWNBOUND STATISTICS		483	139	42	664	291	4559	4850	806	129	8	943	6511
TOTALS		973	266	79	1318	4195	5952	10147	1638	256	20	1914	8549
LOCK & DAM 17		***											
UPBOUND STATISTICS		465	64	13	542	4018	1497	5515	812	83	20	915	2184
DOWNBOUND STATISTICS		465	88	15	568	357	4769	5126	801	88	17	906	6799
TOTALS		930	152	28	1110	4375	6266	10641	1613	171	37	1821	8983
LOCK & DAM 18		***											
UPBOUND STATISTICS		460	140	26	626	4174	1496	5670	797	156	11	964	2175
DOWNBOUND STATISTICS		470	175	20	665	353	4944	5297	804	136	8	948	7027
TOTALS		930	315	46	1291	4527	6440	10967	1601	292	19	1912	9202
LOCK & DAM 19		***											
UPBOUND STATISTICS		460	93	61	614	4466	1362	5828	499	50	13	562	1987
DOWNBOUND STATISTICS		471	81	57	609	200	5239	5439	488	40	5	533	7456
TOTALS		931	174	118	1223	4666	6601	11267	987	90	18	1095	9443
LOCK & DAM 19 AUXILIARY 1		NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 20		***											
UPBOUND STATISTICS		469	81	57	607	4568	1394	5962	861	66	18	945	2028
DOWNBOUND STATISTICS		470	81	63	614	187	5372	5559	858	73	11	942	7619
TOTALS		939	162	120	1221	4755	6766	11521	1719	139	29	1887	9647

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED		
			4/83	5/83	6/83

RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)

(NAV, DPN, ETC)

MISSISSIPPI RIVER

LOCK & DAM 21	***											
UPBOUND STATISTICS	469	80	31	580	4665	1329	5994	839	84	17	940	1967
DOWNBOUND STATISTICS	480	85	29	594	132	5522	5654	862	79	10	951	7834
TOTALS	949	165	60	1174	4797	6851	11648	1701	163	27	1891	9801

LOCK & DAM 22	***											
UPBOUND STATISTICS	474	106	26	606	4719	1359	6078	847	82	13	942	1996
DOWNBOUND STATISTICS	482	88	24	594	112	5561	5673	867	64	10	941	7921
TOTALS	956	194	50	1200	4831	6920	11751	1714	146	23	1883	9917

[illegible]

THOMAS J O'BRIEN	1	2	75	1	2	65	3	13	35	1	1	15 :	244	3482	14.3	104
LOCKPORT LOCK	1	8	62	1	9	40	7	25	148	1	10	80 :	806	72969	90.5	1457
BRANDON ROAD LOCK & DAM	1	10	444	1	9	435	2	19	400	1	11	85 :	824	84975	103.1	2279
DRESDEN ISLAND LOCK & DAM	1	7	64	1	8	438	1	14	78	1	10	69 :	547	122103	223.2	87840
MARSIELLES LOCK & DAM	1	9	98	1	9	50	2	16	44	1	14	84 :	542	86262	159.2	969
STARVED ROCK LOCK & DAM	1	8	98	1	9	353	1	13	108	1	13	68 :	470	102947	219.0	43315
PEORIA LOCK & DAM	1	2	71	1	3	35	1	3	21	1	6	66 :	159	13916	87.5	318
LAGRANGE LOCK & DAM	1	1	61	1	1	31	1	1	20	1	2	50 :	74	56898	768.9	43200

LOCK & DAM 11	1	7	126	1	6	32	1	9	69	1	11	139 :	376	39732	105.7	1557
LOCK & DAM 12	1	8	90	1	6	35	1	6	68	1	12	66 :	391	76545	195.8	44640
LOCK & DAM 13	1	5	85	1	6	36	1	7	67	1	13	59 :	365	30909	84.7	4320
LOCK & DAM 14	1	6	458	1	7	70	1	8	70	1	14	94 :	547	62484	114.2	1440
LOCK & DAM 14 AUXILIARY 1	1	1	1	1	1	1	2	13	63	1	1	1 :	0	0	0.0	0
LOCK & DAM 15	1	8	85	1	7	32	1	9	374	1	16	80 :	561	152363	271.6	85039
LOCK & DAM 15 AUXILIARY 1	1	1	41	1	1	27	1	10	118	1	1	12 :	22	257	11.7	27

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F4	ROCK ISLAND	NORTH CENTRAL	4/83	5/83	6/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX	
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

MISSISSIPPI RIVER

LOCK & DAM 16	1	9	85	1	8	29	1	7	32	1	15	48 :	687	88007	128.1	13025
LOCK & DAM 17	1	11	110	1	7	28	3	8	28	1	14	75 :	637	84139	132.1	1721
LOCK & DAM 18	1	10	436	1	8	37	1	5	37	1	16	53 :	670	179055	267.2	44640
LOCK & DAM 19	1	18	94	1	7	32	2	15	43	1	9	31 :	552	60903	110.3	1175
LOCK & DAM 19 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 20	1	6	59	1	8	439	1	5	34	1	16	71 :	628	210236	334.8	7721
LOCK & DAM 21	1	8	97	1	9	39	1	4	25	1	16	80 :	653	107101	164.0	7745
LOCK & DAM 22	1	11	92	1	10	415	1	5	184	1	20	93 :	801	308125	384.7	9350

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
FS	ST. PAUL	NORTH CENTRAL	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
MISSISSIPPI RIVER	01-LOCK & DAM 1 MAIN CHBR 1	0400/0056/11.0
	01-LOCK & DAM 1 MAIN CHBR 2	0400/0056/11.0
	02-LOCK & DAM 2	0600/0110/11.0
	02-LOCK & DAM 2 AUXILIARY 1	0500/0110/11.0
	03-LOCK & DAM 3	0600/0110/11.0
	04-LOCK & DAM 4	0600/0110/11.0
	05-LOCK & DAM 5	0600/0110/11.0
	06-LOCK & DAM 6	0600/0110/11.0
	07-LOCK & DAM 7	0600/0110/11.0
	08-LOCK & DAM 8	0600/0110/11.0
	09-LOCK & DAM 9	0600/0110/11.0
	10-LOCK & DAM 10	0600/0110/11.0
	51-ST ANTHONY FALLS UPPER L & D	0400/0056/11.0
	52-ST ANTHONY FALLS LOWER L & D	0400/0056/11.0
	55-LOCK & DAM 5A	0600/0110/11.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
							4/83		5/83		6/83	
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
											(NAV, OPN, ETC)	
MISSISSIPPI RIVER												
LOCK & DAM 1 MAIN CHBR 1	***											
UPBOUND STATISTICS	168	522	26	716	133	158	291	198	294	11	503	214
DOWNBOUND STATISTICS	169	559	22	750	122	153	275	197	306	9	512	219
TOTALS	337	1081	48	1466	255	311	566	395	600	20	1015	433
LOCK & DAM 1 MAIN CHBR 2	***	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS	24	56	2	82	13	31	44	30	41	3	74	41
DOWNBOUND STATISTICS	27	49	4	80	34	20	54	33	38	2	73	27
TOTALS	51	105	6	162	47	51	98	63	79	5	147	68
LOCK & DAM 2	***											
UPBOUND STATISTICS	321	658	13	992	2726	424	3150	431	404	15	850	635
DOWNBOUND STATISTICS	335	723	8	1066	51	2974	3025	440	425	14	879	4275
TOTALS	656	1381	21	2058	2777	3398	6175	871	829	29	1729	4910
LOCK & DAM 2 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 3	***											
UPBOUND STATISTICS	266	1027	106	1399	2407	431	2838	446	486	35	967	644
DOWNBOUND STATISTICS	277	1057	97	1431	35	2634	2669	363	522	24	909	3835
TOTALS	543	2084	203	2830	2442	3065	5507	809	1008	59	1876	4479
LOCK & DAM 4	***											
UPBOUND STATISTICS	276	645	10	931	2517	442	2959	369	423	60	852	640
DOWNBOUND STATISTICS	284	673	10	967	34	2722	2756	379	417	52	848	3955
TOTALS	560	1318	20	1898	2551	3164	5715	748	840	112	1700	4595
LOCK & DAM 5	***											
UPBOUND STATISTICS	280	455	13	748	2410	568	2978	391	299	71	761	815
DOWNBOUND STATISTICS	281	499	8	788	62	2641	2703	383	317	77	777	3833
TOTALS	561	954	21	1536	2472	3209	5681	774	616	148	1538	4648

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC FS	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			4/83			5/83			6/83			

RIVER/LOCK NAME	TOWS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	
(NAV, OPN, ETC)												

MISSISSIPPI RIVER												
LOCK & DAM 6	***											
UPBOUND STATISTICS	283	508	7	798	2571	534	3105	391	402	25	818	789
DOWNBOUND STATISTICS	293	503	7	803	44	2827	2871	397	407	22	826	4093
TOTALS	576	1011	14	1601	2615	3361	5976	788	809	47	1644	4882
LOCK & DAM 7	***											
UPBOUND STATISTICS	284	1131	49	1464	2546	561	3107	410	595	17	1022	828
DOWNBOUND STATISTICS	293	1057	50	1400	74	2800	2874	385	593	18	996	4051
TOTALS	577	2188	99	2864	2620	3361	5981	795	1188	35	2018	4879
LOCK & DAM 8	***											
UPBOUND STATISTICS	282	324	7	613	2598	594	3192	414	259	17	690	885
DOWNBOUND STATISTICS	288	337	14	639	47	2853	2900	418	253	18	689	4146
TOTALS	570	661	21	1252	2645	3447	6092	832	512	35	1379	5031
LOCK & DAM 9	***											
UPBOUND STATISTICS	278	369	4	651	2376	868	3244	409	303	11	723	1269
DOWNBOUND STATISTICS	285	336	7	628	255	2733	2988	422	267	14	703	3963
TOTALS	563	705	11	1279	2631	3601	6232	831	570	25	1426	5232
LOCK & DAM 10	***											
UPBOUND STATISTICS	340	522	13	875	2823	886	3709	482	391	23	896	1278
DOWNBOUND STATISTICS	331	559	26	916	224	3195	3419	489	376	22	887	4592
TOTALS	671	1081	39	1791	3047	4081	7128	971	767	45	1783	5870
ST ANTHONY FALLS UPPER L & D	***											
UPBOUND STATISTICS	115	359	38	512	96	69	165	151	146	2	299	112
DOWNBOUND STATISTICS	119	415	30	564	54	101	155	148	170	2	320	137
TOTALS	234	774	68	1076	150	170	320	299	316	4	619	249
ST ANTHONY FALLS LOWER L & D	***											
UPBOUND STATISTICS	199	364	27	590	146	194	340	226	144	9	379	260
DOWNBOUND STATISTICS	196	428	27	651	158	169	327	224	173	13	410	230
TOTALS	395	792	54	1241	304	363	667	450	317	22	789	490

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME		MONTHS REPORTED								
F3	ST. PAUL	NORTH CENTRAL		4/83	5/83	6/83						
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LOCKGS RECRTN	LOCKGS OTHER	LOCKGS TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
MISSISSIPPI RIVER												
LOCK & DAM SA	000											
UPBOUND STATISTICS	277	721	67	1065	2439	522	2961	432	436	39	907	767
DOWNBOUND STATISTICS	284	724	65	1073	47	2684	2731	378	452	39	869	3899
TOTALS	561	1445	132	2138	2486	3206	5692	810	888	78	1776	4666

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL										MONTHS REPORTED						
												4/83			5/83		6/83	
		APPROACH			LOCK ENTRY			PROCESSING TIME (MIN.)				EXIT			: DELAYED DELAY		DELAY	DELAY
MIN AVG MAX			MIN AVG MAX			MIN AVG MAX				MIN AVG MAX			: VESSELS TIME		AVG	MAX		
MISSISSIPPI RIVER																		
LOCK & DAM 1 MAIN CHDR 1	1	2	10	1	4	40	2	11	27	1	3	25	:	192	2070	15.0	72	
LOCK & DAM 1 MAIN CHDR 2	1	3	10	1	5	16	5	13	60	1	4	13	:	18	327	18.2	42	
LOCK & DAM 2	1	6	111	1	6	42	4	8	18	1	9	48	:	744	35551	47.8	517	
LOCK & DAM 2 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																	
LOCK & DAM 3	1	6	114	1	5	40	4	5	28	1	9	104	:	770	28319	36.8	318	
LOCK & DAM 4	1	7	105	1	6	44	2	5	30	1	10	50	:	741	32390	43.7	705	
LOCK & DAM 5	1	5	104	1	6	70	4	7	17	1	10	64	:	506	26202	51.8	581	
LOCK & DAM 6	1	7	80	1	6	40	1	5	14	1	10	54	:	589	23963	40.7	263	
LOCK & DAM 7	1	5	80	1	5	43	4	5	18	1	8	51	:	903	33162	36.7	330	
LOCK & DAM 8	1	8	95	1	6	56	4	6	24	1	13	74	:	435	25669	59.0	414	
LOCK & DAM 9	1	8	81	1	6	42	2	6	47	1	12	101	:	295	17857	60.5	290	
LOCK & DAM 10	1	7	119	1	6	51	4	6	11	1	11	63	:	607	30173	49.7	447	
ST ANTHONY FALLS UPPER L & D	1	3	24	1	3	14	7	9	22	1	3	17	:	10	90	9.0	25	
ST ANTHONY FALLS LOWER L & D	1	2	22	1	3	48	4	12	28	1	3	15	:	138	1961	14.2	152	
LOCK & DAM 5A	1	6	62	1	5	37	2	5	21	1	9	55	:	651	25996	46.1	691	

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERDC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
62	PORTLAND	NORTH PACIFIC	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
COLUMBIA RIVER	01-BONNEVILLE LOCK & DAM	0500/0074/15.0
	02-THE DALLES DAM	0650/0084/15.0
	03-JOHN DAY LOCK & DAM	0650/0084/15.0
WILLAMETTE RIVER	11-WILLAMETTE FALLS LOCKS 1 - 4	0200/0037/ 6.5
	15-WILLAMETTE FALLS GUARD LOCK	0200/0037/ 6.5

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC 62	DISTRICT NAME PORTLAND	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED									
			4/83		5/83		6/83					

RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)

COLUMBIA RIVER												
BONNEVILLE LOCK & DAM	***											
UPBOUND STATISTICS	201	67	25	293	462	189	651	398	46	65	509	240
DOWNBOUND STATISTICS	214	94	16	324	46	634	680	432	47	52	531	1350
TOTALS	415	161	41	617	508	823	1331	830	93	117	1040	1599
THE DALLES DAM	***											
UPBOUND STATISTICS	167	17	4	188	352	171	523	178	13	18	209	240
DOWNBOUND STATISTICS	177	22	2	201	49	491	540	188	16	16	220	1157
TOTALS	344	39	6	389	401	662	1063	366	29	34	429	1397
JOHN DAY LOCK & DAM	***											
UPBOUND STATISTICS	164	38	8	210	341	179	520	174	18	20	212	252
DOWNBOUND STATISTICS	160	40	4	204	49	461	510	170	21	26	217	1117
TOTALS	324	78	12	414	390	640	1030	344	39	46	429	1369
WILLAMETTE RIVER												
WILLAMETTE FALLS LOCKS 1 - 4	***	ONLY THIRD MONTH REPORTED										
UPBOUND STATISTICS	22	31	7	60	4	32	36	36	21	0	57	11
DOWNBOUND STATISTICS	21	36	4	61	1	35	36	32	24	0	56	10
TOTALS	43	67	11	121	5	67	72	68	45	0	113	21
WILLAMETTE FALLS GUARD LOCK	***	ONLY THIRD MONTH REPORTED										
UPBOUND STATISTICS	36	14	45	95	8	30	38	4	0	90	94	68
DOWNBOUND STATISTICS	39	18	40	97	2	37	39	3	0	88	91	12
TOTALS	75	32	85	192	10	67	77	7	0	178	185	80

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

ERDC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED	
62	PORTLAND	NORTH PACIFIC	4/83	5/83
				6/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX	
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

COLUMBIA RIVER

BONNEVILLE LOCK & DAM	1	6	33	:	1	6	93	:	2	21	84	:	1	4	70	:	528	34070	64.5	465
THE DALLES DAM	1	5	23	:	1	6	25	:	5	23	655	:	1	5	24	:	241	2727	11.3	80
JOHN DAY LOCK & DAM	1	4	25	:	1	5	30	:	5	25	58	:	1	5	16	:	424	2217	5.2	65

WILLAMETTE RIVER

WILLAMETTE FALLS LOCKS 1 - 4	1	1	15	:	1	1	33	:	1	37	71	:	1	1	11	:	55	108	2.0	27
WILLAMETTE FALLS GUARD LOCK	1	1	2	:	1	4	600	:	1	4	600	:	1	4	600	:	118	174	1.5	51

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
63	SEATTLE	NORTH PACIFIC	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
LAKE WASHINGTON SHP CA	01-HIRAM M CHITTENDEN LOCKS	0800/0080/30.0
	01-HIRAM M CHITTENDEN LOCKS AUX1	0123/0030/25.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC 63	DISTRICT NAME SEATTLE	DIVISION NAME NORTH PACIFIC		MONTHS REPORTED 4/83 5/83 6/83		
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RIVER/LOCK NAME	TONS	VESSL RECRTM	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTM	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
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(NAV, OPN, ETC)

LAKE WASHINGTON SHP CA

HIRAM M CHITTENDEN LOCKS	***											
UPBOUND STATISTICS	232	3939	364	4535	68	222	290	549	70	65	684	340
DOWNBOUND STATISTICS	258	4153	535	4946	194	114	308	649	84	70	803	134
TOTALS	490	8092	899	9481	262	336	598	1198	154	135	1487	474

HIRAM M CHITTENDEN LOCKS AUX1	***											
UPBOUND STATISTICS	12	5568	219	5799	11	1	12	647	1306	136	2089	0
DOWNBOUND STATISTICS	15	6165	239	6419	7	10	17	792	1374	122	2288	0
TOTALS	27	11733	458	12218	18	11	29	1439	2680	258	4377	0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
63	SEATTLE	NORTH PACIFIC	4/83	5/83	6/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	:	(IN MINUTES)		

LAKE WASHINGTON SHP CA

HIRAM M CHITTENDEN LOCKS	1	2	19	1	4	43	2	10	66	1	6	71	:	1401	5770	4.1	55
HIRAM M CHITTENDEN LOCKS AUX	1	1	17	1	1	34	1	4	31	1	7	41	:	1719	7487	4.4	50

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
64	WALLA WALLA	NORTH PACIFIC	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
SNAKE RIVER	01-ICE HARBOR LOCK & DAM	0651/0085/14.0
	02-LOWER MONUMENTAL LOCK & DAM	0651/0085/14.0
	03-LITTLE GOOSE LOCK & DAM	0651/0085/14.0
	04-LOWER GRANITE LOCK & DAM	0651/0085/14.0
COLUMBIA RIVER	24-MCNARY LOCK & DAM	0651/0085/14.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC 64	DISTRICT NAME WALLA WALLA	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED									
			4/83		5/83		6/83					
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
SNAKE RIVER												
ICE HARBOR LOCK & DAM	***											
UPBOUND STATISTICS	128	324	36	488	248	54	302	163	123	32	318	17
DOWNBOUND STATISTICS	143	312	22	477	8	295	303	165	118	32	315	745
TOTALS	271	636	58	965	256	349	605	328	241	64	633	762
LOWER MONUMENTAL LOCK & DAM	***											
UPBOUND STATISTICS	83	86	5	174	207	57	264	93	30	26	149	28
DOWNBOUND STATISTICS	84	91	1	176	5	257	262	92	37	30	159	632
TOTALS	167	177	6	350	212	314	526	185	67	56	308	660
LITTLE GOOSE LOCK & DAM	***											
UPBOUND STATISTICS	82	109	7	198	204	52	256	91	35	31	157	35
DOWNBOUND STATISTICS	84	99	2	185	6	257	263	93	38	35	166	628
TOTALS	166	208	9	383	210	309	519	184	73	66	323	663
LOWER GRANITE LOCK & DAM	***											
UPBOUND STATISTICS	76	132	9	217	132	49	181	89	82	8	179	15
DOWNBOUND STATISTICS	76	132	6	214	3	180	183	91	84	10	185	389
TOTALS	152	264	15	431	135	229	364	180	166	18	364	404
COLUMBIA RIVER												
MCNARY LOCK & DAM	***											
UPBOUND STATISTICS	144	89	6	239	300	178	478	156	44	31	231	244
DOWNBOUND STATISTICS	148	89	4	241	54	425	479	157	49	31	237	1039
TOTALS	292	178	10	480	354	603	957	313	93	62	468	1283

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

ERDC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G4	WALLA WALLA	NORTH PACIFIC	4/83	5/83	6/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX	
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

SNAKE RIVER

ICE HARBOR LOCK & DAM	1	3	25	1	4	34	11	26	50	1	3	17	:	425	2316	5.4	109
LOWER MONUMENTAL LOCK & DAM	1	3	17	2	5	26	11	23	37	1	3	11	:	242	1175	4.9	75
LITTLE GOOSE LOCK & DAM	1	3	18	1	4	21	5	19	49	1	5	22	:	275	1310	4.8	35
LOWER GRANITE LOCK & DAM	1	3	25	1	4	19	8	12	33	1	3	11	:	365	1857	5.1	53

COLUMBIA RIVER

MENARY LOCK & DAM	1	4	19	1	5	30	6	16	35	1	6	19	:	414	2475	6.0	55
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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H1	HUNTINGTON	OHIO RIVER	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
KANAWHA RIVER	01-WINFIELD LOCKS & DAM MAIN 1	0360/0056/15.0
	01-WINFIELD LOCKS & DAM MAIN 2	0360/0056/15.0
	02-MARMET LOCKS & DAM MAIN 1	0360/0056/15.0
	02-MARMET LOCKS & DAM MAIN 2	0360/0056/15.0
	03-LONDON LOCKS & DAM MAIN 1	0360/0056/15.0
	03-LONDON LOCKS & DAM MAIN 2	0360/0056/15.0
OHIO RIVER	21-BELLEVILLE LOCKS & DAM	1200/0110/12.0
	21-BELLEVILLE LOCKS & DAM AUX 1	0600/0110/12.0
	22-RACINE LOCKS & DAM	1200/0110/12.0
	22-RACINE LOCKS & DAM AUX 1	0600/0110/12.0
	23-GALLIPOLIS LOCKS & DAM	0600/0110/12.0
	23-GALLIPOLIS LOCKS & DAM AUX 1	0360/0110/12.0
	24-GREENUP LOCKS & DAM	1200/0110/12.0
	24-GREENUP LOCKS & DAM AUX 1	0600/0110/12.0
	25-CAPT ANT MELDAHL LOCKS & DAM	1200/0110/12.0
	25-CAPT ANT MELDAHL LK&DAM AUX 1	0600/0110/12.0
	72-WILLOW ISLAND LOCKS & DAM	1200/0110/12.0
	72-WILLOW ISLAND LOCKS & DAM AUX	0600/0110/12.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERDC HI	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
						4/83	5/83	6/83				
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
KANAWHA RIVER												
WINFIELD LOCKS & DAM MAIN 1	***											
UPBOUND STATISTICS	254	11	11	276	804	683	1487	889	27	3	919	931
DOWNBOUND STATISTICS	248	9	11	268	298	1251	1549	904	24	3	931	1381
TOTALS	502	20	22	544	1102	1934	3036	1793	51	6	1850	2312
WINFIELD LOCKS & DAM MAIN 2	***											
UPBOUND STATISTICS	218	20	11	249	891	294	1185	669	35	8	712	395
DOWNBOUND STATISTICS	219	24	19	262	534	622	1156	692	43	11	746	697
TOTALS	437	44	30	511	1425	916	2341	1361	78	19	1458	1092
MARNET LOCKS & DAM MAIN 1	***											
UPBOUND STATISTICS	158	41	99	298	636	89	725	488	84	5	577	130
DOWNBOUND STATISTICS	191	43	11	245	72	874	946	616	94	6	716	1061
TOTALS	349	84	110	543	708	963	1671	1104	178	11	1293	1191
MARNET LOCKS & DAM MAIN 2	***											
UPBOUND STATISTICS	142	101	36	279	520	61	581	348	126	3	477	62
DOWNBOUND STATISTICS	113	101	33	247	73	302	375	247	103	3	353	345
TOTALS	255	202	69	526	593	363	956	595	229	6	830	407
LONDON LOCKS & DAM MAIN 1	***											
UPBOUND STATISTICS	53	10	10	73	134	15	149	106	13	0	119	12
DOWNBOUND STATISTICS	50	7	7	64	5	122	127	94	11	0	105	139
TOTALS	103	17	17	137	139	137	276	200	24	0	224	151
LONDON LOCKS & DAM MAIN 2	***											
UPBOUND STATISTICS	78	11	18	107	185	4	189	138	14	2	154	3
DOWNBOUND STATISTICS	95	5	8	108	13	208	221	149	7	2	158	233
TOTALS	173	16	26	215	198	212	410	287	21	4	312	236
OHIO RIVER												
BELLEVILLE LOCKS & DAM	***											
UPBOUND STATISTICS	383	4	4	391	967	2932	3899	385	2	0	387	4280
DOWNBOUND STATISTICS	350	2	6	358	1621	2121	3742	354	0	0	354	3154
TOTALS	733	6	10	749	2588	5053	7641	739	2	0	741	7434

EROC HI	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER					MONTHS REPORTED						
							4/83	5/83		6/83			
RIVER/LOCK NAME		TOWS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPM, ETC)	TONNAGE (KTONS)
OHIO RIVER													
BELLEVILLE LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		24	60	4	88	26	48	74	31	42	2	75	38
DOWNBOUND STATISTICS		53	61	4	118	116	53	169	58	46	4	108	58
TOTALS		77	121	8	206	142	101	243	89	88	6	183	96
RACINE LOCKS & DAM		***											
UPBOUND STATISTICS		418	0	6	424	1267	2924	4191	418	0	3	421	4235
DOWNBOUND STATISTICS		403	0	11	414	1660	2461	4121	406	0	1	407	3403
TOTALS		821	0	17	838	2927	5385	8312	824	0	4	828	7638
RACINE LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		38	44	1	83	112	24	136	44	26	0	70	35
DOWNBOUND STATISTICS		41	46	4	91	67	64	131	48	30	2	80	64
TOTALS		79	90	5	174	179	88	267	92	56	2	150	99
GALLIPOLIS LOCKS & DAM		***											
UPBOUND STATISTICS		423	3	18	444	975	3010	3985	739	3	0	742	4397
DOWNBOUND STATISTICS		405	1	21	427	1867	2124	3991	714	1	0	715	3031
TOTALS		828	4	39	871	2842	5134	7976	1453	4	0	1457	7428
GALLIPOLIS LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		32	45	22	99	45	33	78	59	34	2	95	53
DOWNBOUND STATISTICS		45	54	33	132	51	111	162	90	37	2	129	142
TOTALS		77	99	55	231	96	144	240	149	71	4	224	195
GREENUP LOCKS & DAM		***											
UPBOUND STATISTICS		450	0	10	460	2721	1412	4133	460	0	0	460	2134
DOWNBOUND STATISTICS		450	0	8	458	749	3542	4291	459	0	0	459	5282
TOTALS		900	0	18	918	3470	4954	8424	919	0	0	919	7416
GREENUP LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		54	195	16	265	98	24	122	71	139	1	211	27
DOWNBOUND STATISTICS		47	166	38	251	61	45	106	88	129	1	218	68
TOTALS		101	361	54	516	159	69	228	159	268	2	429	95

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			4/83			5/83			6/83			

RIVER/LOCK NAME	TOWS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	
(NAV, OPM, ETC)												

OHIO RIVER												
CAPT ANT MELDAHL LOCKS & DAM	***											
UPBOUND STATISTICS	438	1	8	447	2375	1800	4175	443	1	2	446	2840
DOWNBOUND STATISTICS	430	1	10	441	747	3443	4190	434	0	0	434	5195
TOTALS	868	2	18	888	3122	5243	8365	877	1	2	880	8035
CAPT ANT MELDAHL LK&DAM AUX 1	***											
UPBOUND STATISTICS	16	323	1	340	28	14	42	19	141	1	161	21
DOWNBOUND STATISTICS	21	292	3	316	41	14	55	26	143	3	172	19
TOTALS	37	615	4	656	69	28	97	45	284	4	333	40
WILLOW ISLAND LOCKS & DAM	***											
UPBOUND STATISTICS	373	10	5	388	1050	2615	3665	375	6	0	381	3575
DOWNBOUND STATISTICS	355	3	5	363	1442	2133	3575	357	1	0	358	3069
TOTALS	728	13	10	751	2492	4748	7240	732	7	0	739	6644
WILLOW ISLAND LOCKS & DAM AUX	***											
UPBOUND STATISTICS	70	72	13	155	142	67	209	92	38	2	132	96
DOWNBOUND STATISTICS	83	75	10	168	87	174	261	106	34	2	142	120
TOTALS	153	147	23	323	229	241	470	198	72	4	274	216

LOCK PROCESSING TIME (MIN.)												DELATED	DELAY	DELAY
APPROACH		ENTRY		CHAMBER		EXIT		VESSELS		TIME	AVG	MAX		
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX			
												(IN MINUTES)		

WINFIELD LOCKS & DAM MAIN 1	1	10	100	1	4	76	5	9	40	1	11	45 :	274	33124	120.9	575
WINFIELD LOCKS & DAM MAIN 2	1	9	68	1	4	20	5	9	28	1	11	117 :	206	20546	99.7	450
MARNET LOCKS & DAM MAIN 1	1	9	72	1	4	18	5	8	20	1	9	65 :	49	3571	72.9	198
MARNET LOCKS & DAM MAIN 2	1	8	55	1	4	63	5	8	20	1	7	76 :	38	2585	68.0	286
LONDON LOCKS & DAM MAIN 1	1	8	51	1	5	17	5	12	26	1	7	21 :	49	6820	139.2	591
LONDON LOCKS & DAM MAIN 2	1	9	57	1	4	20	5	10	28	2	7	113 :	44	7867	178.8	541

BELLEVILLE LOCKS & DAM	1	19	57	1	8	25	6	12	72	2	9	30 :	238	9705	40.8	235
BELLEVILLE LOCKS & DAM AUX 1	1	12	56	1	3	11	7	12	34	1	4	17 :	14	145	10.4	20
RACINE LOCKS & DAM	1	16	85	2	10	37	5	10	44	2	9	47 :	248	12868	51.9	483
RACINE LOCKS & DAM AUX 1	1	11	66	2	5	20	7	10	18	1	6	23 :	9	233	25.9	75
GALLIPOLIS LOCKS & DAM	1	11	105	1	11	60	5	10	39	1	18	85 :	601	122535	203.9	1565
GALLIPOLIS LOCKS & DAM AUX 1	1	7	56	1	6	28	5	11	22	1	7	65 :	25	1424	57.0	303
GREENUP LOCKS & DAM	1	15	53	1	9	33	7	10	23	2	9	22 :	249	8701	34.9	243
GREENUP LOCKS & DAM AUX 1	1	7	45	1	4	10	7	10	20	1	4	15 :	54	606	11.2	60
CAPT AMT MELBAHL LOCKS & DAM	1	20	58	1	10	28	5	13	38	1	10	27 :	339	19542	57.6	335

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H1	HUNTINGTON	OHIO RIVER	4/83	5/83	6/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX	
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

OHIO RIVER

CAPT ANT MELDAHL LK&DAM AUX	1	6	38	1	2	13	5	12	33	1	3	15 :	5	137	27.4	76
WILLOW ISLAND LOCKS & DAM	1	16	49	1	8	25	6	13	30	2	8	37 :	211	7947	37.7	198
WILLOW ISLAND LOCKS & DAM AU	1	12	43	1	3	19	5	13	28	1	4	17 :	34	511	15.0	61

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H2	LOUISVILLE	OHIO RIVER	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
GREEN/BARREN RIVER	21-LOCK & DAM 1	0600/0084/12.0
	22-LOCK & DAM 2	0600/0084/12.0
	23-LOCK & DAM 3	0138/0036/12.0
OHIO RIVER	41-MARKLAND LOCKS & DAM	1200/0110/12.0
	41-MARKLAND LOCKS & DAM AUX 1	0600/0110/12.0
	42-MCALPINE LOCKS & DAM	1200/0110/12.0
	42-MCALPINE LOCKS & DAM AUX 1	0600/0110/12.0
	50-LOCK & DAM 50	0600/0110/12.0
	51-LOCK & DAM 51	0600/0110/12.0
	52-LOCK & DAM 52	1200/0110/12.0
	52-LOCK & DAM 52 AUX 1	0600/0110/12.0
	53-LOCK & DAM 53	0600/0110/12.0
	75-CANNELTON LOCK & DAM	1200/0110/12.0
	75-CANNELTON LOCK & DAM AUX	0600/0110/12.0
	76-NEWBURGH LOCK & DAM	1200/0110/12.0
	76-NEWBURGH LOCK & DAM AUX 1	0600/0110/12.0
	77-UNIONTOWN LOCK & DAM	1200/0110/12.0
	77-UNIONTOWN LOCK & DAM AUX 1	0600/0110/12.0
	78-SMITHLAND LOCK & DAM	1200/0110/12.0
	78-SMITHLAND LOCK & DAM AUX 1	1200/0110/12.0

EROC #2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER					MONTHS REPORTED					
							4/83		5/83		6/83	
RIVER/LOCK NAME	TOWS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGE EMPTY	BARGE FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
GREEN/BARREN RIVER												
LOCK & DAM 1	***											
UPBOUND STATISTICS	443	36	18	497	1372	205	1577	228	35	246	509	307
DOWNBOUND STATISTICS	437	39	17	493	64	1465	1529	228	38	234	500	2197
TOTALS	880	75	35	990	1436	1670	3106	456	73	480	1009	2504
LOCK & DAM 2	***											
UPBOUND STATISTICS	349	19	4	372	1230	10	1240	212	18	143	373	15
DOWNBOUND STATISTICS	338	20	7	365	8	1188	1196	205	20	140	365	1795
TOTALS	687	39	11	737	1238	1198	2436	417	38	283	738	1810
LOCK & DAM 3	NO DATA RECORDED FOR THIS LOCK											
OHIO RIVER												
MARKLAND LOCKS & DAM	***	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	205	2	4	211	1019	872	1891	210	2	0	212	1425
DOWNBOUND STATISTICS	199	1	0	200	435	1458	1893	201	0	0	201	2240
TOTALS	404	3	4	411	1454	2330	3784	411	2	0	413	3665
MARKLAND LOCKS & DAM AUX 1	***											
UPBOUND STATISTICS	280	53	8	341	1196	1227	2423	446	43	4	493	1916
DOWNBOUND STATISTICS	293	65	8	366	846	1807	2653	477	55	3	535	2764
TOTALS	573	118	16	707	2042	3034	5076	923	98	7	1028	4680
MCALPINE LOCKS & DAM	***											
UPBOUND STATISTICS	514	148	57	719	1597	2765	4362	563	56	11	630	4395
DOWNBOUND STATISTICS	514	151	66	731	1481	2997	4478	568	72	10	650	4608
TOTALS	1028	299	123	1450	3078	5762	8840	1131	128	21	1280	9003
MCALPINE LOCKS & DAM AUX 1	NO DATA RECORDED FOR THIS LOCK											

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			4/83		5/83		6/83					
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
OHIO RIVER												
LOCK & DAM 50	NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 51	NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 52	***											
UPBOUND STATISTICS	898	0	105	1003	4137	3604	7741	0	0	963	963	5846
DOWNBOUND STATISTICS	930	0	79	1009	2043	5746	7789	0	0	1006	1006	8472
TOTALS	1828	0	184	2012	6180	9350	15530	0	0	1969	1969	14318
LOCK & DAM 52 AUX 1	NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 53	NO DATA RECORDED FOR THIS LOCK											
CANNELTON LOCK & DAM	***											
UPBOUND STATISTICS	495	10	10	515	1672	2864	4536	504	5	2	511	4530
DOWNBOUND STATISTICS	505	23	9	537	1537	3242	4779	515	8	0	523	4692
TOTALS	1000	33	19	1052	3209	6106	9315	1019	13	2	1034	9222
CANNELTON LOCK & DAM AUX	***											
UPBOUND STATISTICS	9	96	5	110	30	1	31	15	42	0	57	1
DOWNBOUND STATISTICS	7	101	8	116	4	13	17	15	45	2	62	14
TOTALS	16	197	13	226	34	14	48	30	87	2	119	15
NEWBURGH LOCK & DAM	***											
UPBOUND STATISTICS	564	149	59	772	2416	2544	4960	546	52	35	633	4162
DOWNBOUND STATISTICS	591	158	49	798	1362	3852	5214	575	52	37	664	5472
TOTALS	1155	307	108	1570	3778	6396	10174	1121	104	72	1297	9634
NEWBURGH LOCK & DAM AUX 1	***											
UPBOUND STATISTICS	24	256	21	301	34	5	39	36	101	1	138	7
DOWNBOUND STATISTICS	17	258	15	290	20	11	31	27	111	0	138	12
TOTALS	41	514	36	591	54	16	70	63	212	1	276	19

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			4/83			5/83			6/83			

RIVER/LOCK NAME	TOWS	VESSL	VESSL	VESSL	BARGE	BARGE	BARGE	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	
(NAV, DPN, ETC)												

OHIO RIVER												
UNIONTOWN LOCK & DAM												

UPBOUND STATISTICS	581	4	5	590	3708	2110	5818	539	3	48	590	3527
DOWNBOUND STATISTICS	598	5	9	612	1005	4957	5962	561	4	47	612	7498
TOTALS	1179	9	14	1202	4713	7067	11780	1100	7	95	1202	11025
UNIONTOWN LOCK & DAM AUX 1												

UPBOUND STATISTICS	31	141	22	194	34	12	46	54	140	1	195	18
DOWNBOUND STATISTICS	20	150	16	186	19	32	51	38	149	1	188	42
TOTALS	51	291	38	380	53	44	97	92	289	2	383	60
SMITHLAND LOCK & DAM												

UPBOUND STATISTICS	99	10	14	123	513	271	784	113	9	8	130	479
DOWNBOUND STATISTICS	673	31	20	724	858	5512	6370	695	28	9	732	8366
TOTALS	772	41	34	847	1371	5783	7154	808	37	17	862	8845
SMITHLAND LOCK & DAM AUX 1												

UPBOUND STATISTICS	646	23	24	693	4187	1893	6080	671	22	7	700	3149
DOWNBOUND STATISTICS	67	6	12	85	103	503	606	82	5	2	89	788
TOTALS	713	29	36	778	4290	2396	6686	753	27	9	789	3937

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVCLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED													
			4/83	5/83	6/83											

		LOCK PROCESSING TIME (MIN.)				: DELAYED DELAY		DELAY		DELAY						
APPROACH		ENTRY		CHAMBER		EXIT		: VESSELS TIME		AVG MAX						
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX					

GREEN/BARREN RIVER																
LOCK & DAM 1	1	3	61	1	2	10	1	4	107	1	3	32 :	80	1933	24.2	290
LOCK & DAM 2	1	3	29	1	2	30	1	6	85	1	5	18 :	68	1124	16.5	70
LOCK & DAM 3	NO DATA RECORDED FOR THIS LOCK															
OHIO RIVER																
MARKLAND LOCKS & DAM	1	20	84	1	8	30	5	13	50	1	9	80 :	213	17727	83.2	1215
MARKLAND LOCKS & DAM AUX 1	1	12	105	1	9	40	5	12	46	1	18	95 :	535	125036	233.7	1266
MCALPINE LOCKS & DAM	1	16	99	1	7	30	5	10	30	1	6	36 :	606	21063	34.8	235
MCALPINE LOCKS & DAM AUX 1	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 50	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 51	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 52	1	3	48	1	1	9	1	1	10	1	3	28 :	2	51	25.5	50
LOCK & DAM 52 AUX 1	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 53	NO DATA RECORDED FOR THIS LOCK															
CANNELTON LOCK & DAM	1	25	105	1	7	180	5	10	70	1	7	50 :	437	24332	55.7	813

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

ERDC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H2	LOUISVILLE	OHIO RIVER	4/83	5/83	6/83

LOCK PROCESSING TIME (MIN.)												: DELAYED DELAY		DELAY		DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			: VESSELS TIME		AVG		MAX	
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX			(IN MINUTES)			

OHIO RIVER

CANNELTON LOCK & DAM AUX	1	10	55	1	3	10	5	10	30	1	3	12 :	17	198	11.6	30
NEWBURGH LOCK & DAM	1	12	70	1	6	20	1	9	25	1	8	36 :	504	15082	29.9	141
NEWBURGH LOCK & DAM AUX 1	1	5	29	1	2	15	5	8	25	1	3	15 :	60	423	7.1	25
UNIONTOWN LOCK & DAM	1	16	90	1	6	30	1	7	30	1	6	65 :	414	15478	37.4	197
UNIONTOWN LOCK & DAM AUX 1	1	5	38	1	2	18	5	7	30	1	2	13 :	60	493	8.2	34
SMITHLAND LOCK & DAM	1	15	80	1	8	25	5	8	50	1	7	65 :	160	2671	16.7	115
SMITHLAND LOCK & DAM AUX 1	1	12	85	1	8	25	5	8	70	1	7	20 :	114	1458	12.8	40

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED	
H3	NASHVILLE	OHIO RIVER	4/83	5/83
				6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
TENNESSEE RIVER	01-KENTUCKY LOCK	0600/0110/11.0
	02-PICKWICK LANDING LOCK	1000/0110/11.0
	02-PICKWICK LANDING LOCK AUX	0600/0110/11.0
	03-WILSON LOCK	0600/0110/11.0
	03-WILSON LOCK AUX	0292/0060/11.0
	04-GEN JOS WHEELER LOCK	0600/0110/11.0
	04-GEN JOS WHEELER LK AUX1	0400/0060/11.0
	05-GUNTERSVILLE LOCK	0600/0110/11.0
	05-GUNTERSVILLE LOCK AUX 1	0360/0060/11.0
	06-NICKAJAC LOCK	0600/0110/11.0
	07-CHICKAMAUGA LOCK	0360/0060/11.0
	08-WATTS BAR LOCK	0360/0060/11.0
	09-FORT LOUDON LOCK	0360/0060/11.0
CLINCH RIVER	11-MELTON HILL LOCK	0400/0075/11.0
CUMBERLAND RIVER	21-BARKLEY LOCK	0800/0110/11.0
	22-CHEATHAM LOCK	0800/0110/11.0
	23-CORDELL HULL LOCK	0400/0084/11.0
	24-OLD HICKORY LOCK	0400/0084/11.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
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EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER					MONTHS REPORTED						
							4/83	5/83			6/83		
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
TENNESSEE RIVER													
KENTUCKY LOCK		***											
UPBOUND STATISTICS		414	55	35	504	522	3096	3618	645	58	4	707	4603
DOWNBOUND STATISTICS		369	36	40	445	2437	729	3166	579	42	2	623	991
TOTALS		783	91	75	949	2959	3825	6784	1224	100	6	1330	5594
PICKWICK LANDING LOCK		***											
UPBOUND STATISTICS		263	78	14	355	288	2249	2537	419	90	9	518	3297
DOWNBOUND STATISTICS		254	93	29	376	2061	441	2502	405	109	10	524	623
TOTALS		517	171	43	731	2349	2690	5039	824	199	19	1042	3920
PICKWICK LANDING LOCK AUX		NO DATA RECORDED FOR THIS LOCK											
WILSON LOCK		***											
UPBOUND STATISTICS		103	107	38	248	188	755	943	163	100	4	267	1103
DOWNBOUND STATISTICS		102	119	44	265	605	298	903	164	110	5	279	414
TOTALS		205	226	82	513	793	1053	1846	327	210	9	546	1517
WILSON LOCK AUX		***	ONLY FIRST MONTH REPORTED										
UPBOUND STATISTICS		33	2	14	49	104	191	295	264	14	43	321	271
DOWNBOUND STATISTICS		28	9	12	49	126	89	215	178	42	26	246	122
TOTALS		61	11	26	98	230	280	510	442	56	69	567	393
GEN JOS WHEELER LOCK		***											
UPBOUND STATISTICS		122	57	4	183	265	864	1129	180	55	8	243	1251
DOWNBOUND STATISTICS		112	75	5	192	652	338	990	157	68	6	231	465
TOTALS		234	132	9	375	917	1202	2119	337	123	14	474	1716
GEN JOS WHEELER LK		AUX1	***	ONLY SECOND AND THIRD MONTHS REPORTED									
UPBOUND STATISTICS		0	148	0	148	0	0	0	0	101	0	101	0
DOWNBOUND STATISTICS		0	178	2	180	0	0	0	2	105	1	108	0
TOTALS		0	326	2	328	0	0	0	2	206	1	209	0

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
								4/83	5/83		6/83		

RIVER/LOCK NAME	TOWS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGES	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)	
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL (NAV, OPN, ETC)		

TENNESSEE RIVER													
GUNTERSVILLE LOCK		***											
UPBOUND STATISTICS		128	523	2	653	329	711	1040	156	217	6	379	1022
DOWNBOUND STATISTICS		119	525	9	653	562	405	967	147	226	4	377	549
TOTALS		247	1048	11	1306	891	1116	2007	303	443	10	756	1571
GUNTERSVILLE LOCK		AUX 1	***										
UPBOUND STATISTICS		0	147	0	147	0	0	0	3	114	0	117	0
DOWNBOUND STATISTICS		0	158	1	159	0	0	0	1	106	1	108	0
TOTALS		0	305	1	306	0	0	0	4	220	1	225	0
WICKAJAC LOCK		***											
UPBOUND STATISTICS		139	63	8	210	333	518	851	169	54	5	228	667
DOWNBOUND STATISTICS		134	76	15	225	443	382	825	169	66	4	239	523
TOTALS		273	139	23	435	776	900	1676	338	120	9	467	1190
CHICKAMAUGA LOCK		***											
UPBOUND STATISTICS		54	401	10	465	85	153	238	129	242	19	390	211
DOWNBOUND STATISTICS		49	412	14	475	135	107	242	125	263	19	407	146
TOTALS		103	813	24	940	220	260	480	254	505	38	797	357
WATTS BAR LOCK		***											
UPBOUND STATISTICS		32	309	2	343	72	43	115	45	278	14	337	70
DOWNBOUND STATISTICS		29	307	3	339	19	97	116	43	277	14	334	124
TOTALS		61	616	5	682	91	140	231	88	555	28	671	194
FORT LOUDON LOCK		***											
UPBOUND STATISTICS		20	160	5	185	12	27	39	30	112	8	150	48
DOWNBOUND STATISTICS		16	210	7	233	17	17	34	25	139	10	174	21
TOTALS		36	370	12	418	29	44	73	55	251	18	324	69
MELTON HILL LOCK		***											
UPBOUND STATISTICS		0	26	0	26	0	0	0	2	23	1	26	0
DOWNBOUND STATISTICS		0	33	0	33	0	0	0	0	26	1	27	0
TOTALS		0	59	0	59	0	0	0	2	49	2	53	0

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EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER		MONTHS REPORTED								
				4/83	5/83	6/83						
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
CLINCH RIVER												
BARKLEY LOCK	***											
UPBOUND STATISTICS	38	64	4	106	22	262	284	41	46	1	88	389
DOWNBOUND STATISTICS	69	101	3	173	592	22	614	83	69	3	155	28
TOTALS	107	165	7	279	614	284	898	124	115	4	243	417
CUMBERLAND RIVER												
CHEATHAM LOCK	***											
UPBOUND STATISTICS	102	60	5	167	51	510	561	112	50	4	166	802
DOWNBOUND STATISTICS	97	62	6	165	471	49	520	106	51	7	164	68
TOTALS	199	122	11	332	522	559	1081	218	101	11	330	870
CORDELL HULL LOCK	NO DATA RECORDED FOR THIS LOCK											
OLD HICKORY LOCK	***											
UPBOUND STATISTICS	23	254	8	285	1	38	39	34	178	13	225	71
DOWNBOUND STATISTICS	19	229	10	258	31	1	32	30	188	12	230	1
TOTALS	42	483	18	543	32	39	71	64	366	25	455	72

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
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 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED			
H3	NASHVILLE	OHIO RIVER	4/83	5/83	6/83	

LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	:	(IN MINUTES)		

TENNESSEE RIVER

KENTUCKY LOCK		1	9	118	1	11	40	6	16	52	1	15	70 :	567	82671	145.8	838
PICKWICK LANDING LOCK		1	8	165	1	11	71	6	16	48	1	15	249 :	302	36549	121.0	2423
PICKWICK LANDING LOCK AUX		NO DATA RECORDED FOR THIS LOCK															
WILSON LOCK		1	9	67	1	10	50	6	23	110	1	12	86 :	160	43868	274.2	4290
WILSON LOCK AUX		1	10	241	2	7	35	21	46	108	2	12	116 :	85	116303	1368.3	3802
GEN JOS WHEELER LOCK		1	12	201	2	11	44	6	14	42	2	15	265 :	86	4220	49.1	233
GEN JOS WHEELER LK	AUX	1	7	44	1	4	41	6	13	23	1	4	15 :	72	1567	21.8	115
GUNTERSVILLE LOCK		1	6	110	1	7	40	6	14	132	1	9	64 :	295	9025	30.6	231
GUNTERSVILLE LOCK	AUX	1	3	18	1	2	12	6	13	24	1	2	7 :	61	540	8.9	66
NICKAJAC LOCK		1	9	74	2	9	35	9	14	25	1	10	45 :	73	3034	41.6	187
CHICKAMAUGA LOCK		1	4	96	1	5	28	6	12	54	1	7	63 :	137	8314	60.7	950
WATTS BAR LOCK		1	6	43	1	3	36	6	15	36	1	4	120 :	175	3757	21.5	259
FORT LOUDON LOCK		1	9	59	1	3	42	10	20	40	1	4	54 :	58	1825	31.5	137
MELTON HILL LOCK		1	6	21	1	2	4	9	15	19	1	2	4 :	3	36	12.0	24

CLINCH RIVER

BARKLEY LOCK		1	10	40	1	7	36	10	16	31	1	7	30 :	33	898	27.2	96
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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H3	NASHVILLE	OHIO RIVER	4/83	5/83	6/83

LOCK PROCESSING TIME (MIN.)										:	DELAYED	DELAY	DELAY	DELAY
APPROACH			ENTRY		CHAMBER		EXIT			:	VESSELS	TIME	AVG	MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	:	(IN MINUTES)	

CUMBERLAND RIVER

CHEATHAM LOCK	1	8	33	1	8	51	6	14	47	1	7	61	:	38	6574	173.0	4321	
CORDELL HULL LOCK	NO DATA RECORDED FOR THIS LOCK																	
OLD HICKORY LOCK	1	3	15	1	3	63	8	15	26	1	3	33	:	70	824	11.8	91	

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H4	PITTSBURGH	OHIO RIVER	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
OHIO RIVER	01-ENSWORTH LOCK & DAM	0600/0110/13.0
	01-ENSWORTH LOCK & DAM AUX 1	0360/0056/13.0
	02-DASHIELDS LOCK & DAM	0600/0110/13.0
	02-DASHIELDS LOCK & DAM AUX 1	0360/0056/13.0
	03-MONTGOMERY LOCK & DAM	0600/0110/13.0
	03-MONTGOMERY LOCK & DAM AUX 1	0360/0056/13.0
	04-NEW CUMBERLAND LOCK & DAM	1200/0110/13.0
	04-NEW CUMBERLAND LK & DAM AUX 1	0600/0110/13.0
	05-PIKE ISLAND LOCK & DAM	1200/0110/13.0
	05-PIKE ISLAND LOCK & DAM AUX 1	0600/0110/13.0
MONONGAHELA RIVER	22-LOCK & DAM 2	0720/0110/13.0
	22-LOCK & DAM 2 AUX 1	0360/0056/13.0
	23-LOCK & DAM 3	0720/0056/13.0
	23-LOCK & DAM 3 AUXILIARY 1	0360/0056/13.0
	24-LOCK & DAM 4	0720/0056/13.0
	24-LOCK & DAM 4 AUXILIARY 1	0360/0056/13.0
	25-MAIWELL LOCK & DAM	0720/0084/13.0
	25-MAIWELL LOCK & DAM AUX 1	0720/0084/13.0
	27-LOCK & DAM 7	0360/0056/13.0
	28-LOCK & DAM 8	0360/0056/13.0
	29-MORGANTOWN LOCK & DAM	0600/0084/13.0
ALLEGHENY RIVER	30-HILDEBRAND LOCK & DAM	0600/0084/13.0
	31-OPEKISKA LOCK & DAM	0600/0084/13.0
	42-LOCK & DAM 2	0360/0056/13.0
	43-LOCK & DAM 3	0360/0056/13.0
	44-LOCK & DAM 4	0360/0056/13.0
	45-LOCK & DAM 5	0360/0056/13.0
	46-LOCK & DAM 6	0360/0056/13.0
	47-LOCK & DAM 7	0360/0056/13.0
	48-LOCK & DAM 8	0360/0056/13.0
	49-LOCK & DAM 9	0360/0056/13.0
OHIO RIVER	71-HANNIBAL LOCKS & DAM	1200/0110/13.0
	71-HANNIBAL LOCKS & DAM AUX 1	0600/0110/13.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			4/83			5/83			6/83			
RIVER/LOCK NAME												
TQWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
(NAV, OPN, ETC)												
OHIO RIVER												
ENSWORTH LOCK & DAM												

UPBOUND STATISTICS	501	121	99	721	1059	1529	2588	595	48	11	654	1652
DOWNBOUND STATISTICS	480	109	113	702	1055	1449	2504	578	49	11	638	1560
TOTALS	981	230	212	1423	2114	2978	5092	1173	97	22	1292	3212
ENSWORTH LOCK & DAM AUX 1												

UPBOUND STATISTICS	134	4	24	162	251	313	564	304	4	6	314	359
DOWNBOUND STATISTICS	139	5	19	163	263	341	604	299	6	12	317	338
TOTALS	273	9	43	325	514	654	1168	603	10	18	631	697
DASHIELDS LOCK & DAM												

UPBOUND STATISTICS	496	0	21	517	1242	1886	3128	546	0	1	547	2059
DOWNBOUND STATISTICS	503	0	16	519	1322	1770	3092	549	0	2	551	1851
TOTALS	999	0	37	1036	2564	3656	6220	1095	0	3	1098	3910
DASHIELDS LOCK & DAM AUX 1												

UPBOUND STATISTICS	108	109	89	306	73	59	132	212	88	9	309	65
DOWNBOUND STATISTICS	99	116	93	308	75	53	128	204	89	12	305	57
TOTALS	207	225	182	614	148	112	260	416	177	21	614	122
MONTGOMERY LOCK & DAM												

UPBOUND STATISTICS	489	11	28	528	1106	2090	3196	590	3	1	594	2425
DOWNBOUND STATISTICS	495	0	27	522	1550	1635	3185	590	0	1	591	1821
TOTALS	984	11	55	1050	2656	3725	6381	1180	3	2	1185	4246
MONTGOMERY LOCK & DAM AUX 1												

UPBOUND STATISTICS	73	131	98	302	60	28	88	176	91	3	270	31
DOWNBOUND STATISTICS	63	166	104	333	45	28	73	173	100	2	275	38
TOTALS	136	297	202	635	105	56	161	349	191	5	545	69
NEW CUMBERLAND LOCK & DAM												

UPBOUND STATISTICS	359	53	18	430	426	2493	2919	368	33	2	403	3381
DOWNBOUND STATISTICS	328	64	18	410	1642	1061	2703	335	41	2	378	1270
TOTALS	687	117	36	840	2068	3554	5622	703	74	4	781	4651

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
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INSTITUTE FOR WATER RESOURCES

EROC HA	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER					MONTHS REPORTED						
							4/83		5/83		6/83		
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)

OHIO RIVER													
NEW CUMBERLAND LK & DAM AUX 1		***											
UPBOUND STATISTICS		81	48	32	161	129	117	246	112	31	1	144	139
DOWNBOUND STATISTICS		121	41	17	179	250	133	383	140	29	1	170	145
TOTALS		202	89	49	340	379	250	629	252	60	2	314	284
PIKE ISLAND LOCK & DAM		***											
UPBOUND STATISTICS		358	14	13	385	237	3040	3277	366	11	0	377	4271
DOWNBOUND STATISTICS		310	7	10	327	1974	1073	3047	313	6	0	319	1385
TOTALS		668	21	23	712	2211	4113	6324	679	17	0	696	5656
PIKE ISLAND LOCK & DAM AUX 1		***											
UPBOUND STATISTICS		81	77	41	199	94	166	260	121	60	2	183	186
DOWNBOUND STATISTICS		160	105	20	285	397	149	546	181	77	1	259	160
TOTALS		241	182	61	484	491	315	806	302	137	3	442	346
MONONGAHELA RIVER													
LOCK & DAM 2		***											
UPBOUND STATISTICS		447	2	14	463	1626	935	2561	470	2	1	473	1088
DOWNBOUND STATISTICS		455	2	12	469	590	2039	2629	477	2	2	481	2061
TOTALS		902	4	26	932	2216	2974	5190	947	4	3	954	3149
LOCK & DAM 2 AUX 1		***											
UPBOUND STATISTICS		113	197	51	361	93	71	164	167	131	5	303	55
DOWNBOUND STATISTICS		88	202	76	366	86	41	127	168	138	4	310	53
TOTALS		201	399	127	727	179	112	291	335	269	9	613	108
LOCK & DAM 3		***											
UPBOUND STATISTICS		689	1	6	696	2927	591	3518	691	0	0	691	697
DOWNBOUND STATISTICS		724	0	5	729	398	3201	3599	724	0	0	724	3139
TOTALS		1413	1	11	1425	3325	3792	7117	1415	0	0	1415	3827

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER					MONTHS REPORTED						
							4/83		5/83		6/83		
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
MONONGAHELA RIVER													
LOCK & DAM 3 AUXILIARY 1		***											
UPBOUND STATISTICS		151	150	117	418	160	69	229	270	97	3	370	64
DOWNBOUND STATISTICS		118	168	105	391	72	95	167	223	114	4	341	105
TOTALS		269	318	222	809	232	164	396	493	211	7	711	169
LOCK & DAM 4		***											
UPBOUND STATISTICS		612	12	3	627	2884	493	3377	638	4	2	644	524
DOWNBOUND STATISTICS		649	3	2	654	315	3179	3494	661	1	1	663	3086
TOTALS		1261	15	5	1281	3199	3672	6871	1299	5	3	1307	3610
LOCK & DAM 4 AUXILIARY 1		***											
UPBOUND STATISTICS		44	116	53	213	61	22	83	101	87	0	188	12
DOWNBOUND STATISTICS		25	120	43	188	27	18	45	70	91	2	163	18
TOTALS		69	236	96	401	88	40	128	171	178	2	351	30
MAXWELL LOCK & DAM		***											
UPBOUND STATISTICS		487	152	7	646	2442	328	2770	496	87	2	585	369
DOWNBOUND STATISTICS		98	147	3	248	54	492	546	104	93	2	199	468
TOTALS		585	299	10	894	2496	820	3316	600	180	4	784	837
MAXWELL LOCK & DAM AUX 1		***											
UPBOUND STATISTICS		98	116	1	215	461	66	527	101	71	0	172	72
DOWNBOUND STATISTICS		493	134	2	629	184	2609	2793	496	74	0	570	2520
TOTALS		591	250	3	844	645	2675	3320	597	145	0	742	2592
LOCK & DAM 7		***											
UPBOUND STATISTICS		517	24	14	555	2027	401	2428	940	35	3	978	456
DOWNBOUND STATISTICS		501	23	28	552	245	2174	2419	948	28	3	979	2053
TOTALS		1018	47	42	1107	2272	2575	4847	1888	63	6	1957	2509
LOCK & DAM 8		***											
UPBOUND STATISTICS		446	11	13	470	1728	419	2147	827	14	3	844	472
DOWNBOUND STATISTICS		433	15	17	465	252	1862	2114	822	18	3	843	1772
TOTALS		879	26	30	935	1980	2281	4261	1649	32	6	1687	2244

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			4/83	5/83	6/83							
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARBS EMPTY	BARBS FULL	BARBS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
ALLEGHENY RIVER												
LOCK & DAM 5	***											
UPBOUND STATISTICS	103	220	1	324	427	4	431	111	132	2	245	1
DOWNBOUND STATISTICS	105	215	1	321	11	424	435	114	130	2	246	181
TOTALS	208	435	2	645	438	428	866	225	262	4	491	182
LOCK & DAM 6	***											
UPBOUND STATISTICS	103	85	1	189	428	4	432	112	73	2	187	1
DOWNBOUND STATISTICS	102	89	2	193	3	427	430	113	76	2	191	181
TOTALS	205	174	3	382	431	431	862	225	149	4	378	182
LOCK & DAM 7	***											
UPBOUND STATISTICS	8	88	3	99	13	2	15	11	63	2	76	0
DOWNBOUND STATISTICS	4	95	6	105	1	6	7	11	70	2	83	3
TOTALS	12	183	9	204	14	8	22	22	133	4	159	3
LOCK & DAM 8	*** ONLY SECOND AND THIRD MONTHS REPORTED											
UPBOUND STATISTICS	0	73	0	73	0	0	0	0	51	0	51	0
DOWNBOUND STATISTICS	0	80	0	80	0	0	0	0	54	0	54	0
TOTALS	0	153	0	153	0	0	0	0	105	0	105	0
LOCK & DAM 9	*** ONLY SECOND AND THIRD MONTHS REPORTED											
UPBOUND STATISTICS	0	67	0	67	0	0	0	0	45	0	45	0
DOWNBOUND STATISTICS	0	67	0	67	0	0	0	0	45	0	45	0
TOTALS	0	134	0	134	0	0	0	0	90	0	90	0
OHIO RIVER												
HANNIBAL LOCKS & DAM	***											
UPBOUND STATISTICS	339	1	1	341	867	2699	3566	340	1	1	342	3723
DOWNBOUND STATISTICS	322	2	1	325	1462	2042	3504	323	1	2	326	2764
TOTALS	661	3	2	666	2329	4741	7070	663	2	3	668	6487

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED								
H4	PITTSBURGH	OHIO RIVER	4/83	5/83	6/83						

RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)

(NAV, OPN, ETC)

OHIO RIVER

HANNIBAL LOCKS & DAM AUX 1	***											
UPBOUND STATISTICS	47	27	6	80	103	94	197	55	20	23	98	86
DOWNBOUND STATISTICS	60	29	11	100	123	92	215	74	24	21	119	85
TOTALS	107	56	17	180	226	186	412	129	44	44	217	171

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME			DIVISION NAME										MONTHS REPORTED				
	PITTSBURGH			OHIO RIVER										4/83		5/83		6/83

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROCC H4	DISTRICT NAME PITTSBURGH			DIVISION NAME OHIO RIVER									MONTHS REPORTED					
													4/83			5/83		
LOCK PROCESSING TIME (MIN.)																		
APPROACH			ENTRY			CHAMBER			EXIT			: DELAYED DELAY		DELAY	DELAY			
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: VESSELS	TIME	AVG	MAX			
															(IN MINUTES)			
MONONGAHELA RIVER																		
LOCK & DAM 4 AUXILIARY 1	1	8	50	1	2	11	7	9	18	1	4	20	:	45	486	10.8	29	
MAXWELL LOCK & DAM	1	8	30	1	5	17	5	10	42	1	8	26	:	110	1093	9.9	33	
-MAXWELL LOCK & DAM AUX 1	1	11	51	1	6	28	6	11	39	1	8	27	:	109	1212	11.1	56	
LOCK & DAM 7	1	6	56	1	4	20	5	6	46	1	9	51	:	414	18204	44.0	647	
LOCK & DAM 8	1	6	33	1	4	62	5	6	18	1	9	35	:	283	12293	43.4	792	
MORGANTOWN LOCK & DAM	1	4	10	1	4	10	5	10	22	1	4	15	:	12	57	4.8	15	
HILDEBRAND LOCK & DAM	1	3	12	1	2	12	7	11	30	2	3	15	:	5	36	7.2	17	
OPEKISKA LOCK & DAM	1	4	15	1	2	13	7	10	18	2	3	7	:	9	76	8.4	20	
ALLEGHENY RIVER																		
LOCK & DAM 2	1	4	25	1	3	25	5	7	27	1	5	37	:	713	7613	10.7	122	
LOCK & DAM 3	1	5	53	1	3	21	5	7	12	1	4	26	:	330	5794	17.6	146	
LOCK & DAM 4	1	5	20	1	3	22	5	7	20	1	4	25	:	223	2378	10.7	240	
LOCK & DAM 5	1	2	8	1	2	27	5	8	11	1	2	10	:	57	453	7.9	21	
LOCK & DAM 6	2	4	15	2	4	5	7	7	9	2	4	10	:	34	326	9.6	24	
LOCK & DAM 7	1	3	6	1	2	6	6	7	17	1	3	6	:	39	375	9.6	22	
LOCK & DAM 8	1	4	10	1	3	10	7	8	10	2	3	7	:	51	449	8.8	26	
LOCK & DAM 9	1	3	6	1	1	2	8	9	15	1	1	3	:	32	180	5.6	17	

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

ERDC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED	
H4	PITTSBURGH	OHIO RIVER	4/83	5/83 6/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED	DELAY	DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS	TIME	AVG	MAX
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

OHIO RIVER

HANNIBAL LOCKS & DAM	1	17	55	:	1	10	27	:	8	16	36	:	2	11	30	:	159	6693	42.1	235
HANNIBAL LOCKS & DAM AUX 1	1	11	35	:	1	4	18	:	7	16	49	:	1	8	18	:	16	244	15.3	33

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K3	JACKSONVILLE	SOUTH ATLANTIC	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
OKEECHOBEE WATERWAY	01-ST LUCIE LOCK & DAM	0275/0050/14.0
	02-MOORE HAVEN LOCK	0275/0050/11.0
	03-ORTONA LOCK & DAM	0275/0050/12.0
	04-W P FRANKLIN LCK & CTRL STRCT	0450/0056/14.0
	05-PORT MAYACA LOCK	0450/0056/14.0
CROSS FLA BRG CNL	11-HENRY HOLLAND BUCKMAN LOCK	0600/0084/15.0
	12-EUREKA LOCK	0600/0084/15.0
	13-INGLIS LOCK	0600/0084/15.0
CANAVERAL HARBOR	21-CANAVERAL LOCK	0600/0090/15.0
OKLAHAMA RIVER	31-NOSS BLUFF LOCK & DAM	0156/0030/****

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K5	MOBILE	SOUTH ATLANTIC	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
BLKWAR/TOMBIGBEE RI	01-COFFEEVILLE LOCK	0600/0110/12.0
	02-DENOPOLIS LOCK & DAM	0600/0110/12.0
	03-WARRIOR LOCK & DAM	0600/0110/12.0
	04-WILLIAM BACON OLIVER LK & DM	0600/0095/12.0
	05-HOLT LOCK & DAM	0600/0110/12.0
	06-JOHN HOLLIS BANKHEAD LK & DM	0600/0110/12.0
ALABAMA-CODSA RIVERS	11-CLAIBORNE LOCK & DAM	0600/0084/12.0
	12-MILLERS FERRY LOCK & DAM	0600/0084/12.0
	13-JONES BLUFF LOCK & DAM	0600/0084/12.0
APLCH/CHTCH/FLNT RI	21-JIM WOODRUFF LOCK & DAM	0450/0082/12.0
	22-GEORGE W ANDREWS LOCK & DAM	0450/0082/12.0
	23-WALTER F GEORGE LOCK & DAM	0450/0082/12.0
TENN TOMBIGBEE WATERWAY	41-GAINESVILLE LOCK & DAM	0600/0110/12.0
	42-ALICEVILLE LOCK & DAM	0600/0110/12.0
	43-COLUMBUS LOCK & DAM	0600/0110/12.0
	44-ABERDEEN LOCK & DAM	0600/0110/12.0
PEARL RIVER	31-LOCK 1	0310/0065/ 9.0
	32-LOCK 2	0310/0065/ 9.0
	33-LOCK 3	0310/0065/ 9.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERDC KS	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC		MONTHS REPORTED									
				4/83	5/83	6/83							
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
													(NAV, OPN, ETC)
BLKNAR/TOMBIGBEE RI													
COFFEEVILLE LOCK	***												
UPBOUND STATISTICS	582	197	36	815	2216	156	2372	548	64	62	674	307	
DOWNBOUND STATISTICS	618	231	24	873	153	2416	2569	580	70	54	704	3704	
TOTALS	1200	428	60	1688	2369	2572	4941	1128	134	116	1378	4011	
DEMOPOLIS LOCK & DAM	***												
UPBOUND STATISTICS	566	22	28	616	2191	161	2352	547	10	56	613	324	
DOWNBOUND STATISTICS	587	23	25	635	105	2352	2457	556	12	54	622	3590	
TOTALS	1153	45	53	1251	2296	2513	4809	1103	22	110	1235	3914	
WARRIOR LOCK & DAM	***												
UPBOUND STATISTICS	552	7	28	587	2300	138	2438	558	3	5	566	292	
DOWNBOUND STATISTICS	576	8	11	595	97	2415	2512	578	3	3	584	3694	
TOTALS	1128	15	39	1182	2397	2553	4950	1136	6	8	1150	3986	
WILLIAM BACON OLIVER LK & DM	***												
UPBOUND STATISTICS	564	11	73	648	2310	115	2425	774	5	38	817	188	
DOWNBOUND STATISTICS	572	20	73	665	79	2394	2473	831	18	28	877	3619	
TOTALS	1136	31	146	1313	2389	2509	4898	1605	23	66	1694	3807	
MOLT LOCK & DAM	***												
UPBOUND STATISTICS	533	7	29	569	2296	91	2387	543	4	15	562	158	
DOWNBOUND STATISTICS	527	13	39	579	89	2359	2448	549	8	13	570	3572	
TOTALS	1060	20	68	1148	2385	2450	4835	1092	12	28	1132	3730	
JOHN HOLLIS BANKHEAD LK & DM	***												
UPBOUND STATISTICS	385	43	16	444	1554	90	1644	390	21	2	413	151	
DOWNBOUND STATISTICS	396	65	9	470	95	1618	1713	396	33	1	430	2458	
TOTALS	781	108	25	914	1649	1708	3357	786	54	3	843	2609	
ALABAMA-COOSA RIVERS													
CLAIBORNE LOCK & DAM	***												
UPBOUND STATISTICS	35	387	4	426	107	10	117	37	388	8	433	12	
DOWNBOUND STATISTICS	35	388	7	430	12	105	117	40	389	7	436	158	
TOTALS	70	775	11	856	119	115	234	77	777	15	869	170	

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC KS	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC					MONTHS REPORTED					
							4/83		5/83		6/83	
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
ALABAMA-COOSA RIVERS												
MILLERS FERRY LOCK & DAM	***											
UPBOUND STATISTICS	23	32	1	56	56	11	67	25	30	17	72	9
DOWNBOUND STATISTICS	21	40	7	68	11	54	65	28	30	15	73	70
TOTALS	44	72	8	124	67	65	132	53	60	32	145	79
JONES BLUFF LOCK & DAM	***											
UPBOUND STATISTICS	4	48	0	52	5	6	11	5	34	4	43	9
DOWNBOUND STATISTICS	3	67	0	70	7	5	12	4	47	3	54	7
TOTALS	7	115	0	122	12	11	23	9	81	7	97	16
APLCH/CHTCH/FLNT RI												
JIM WOODRUFF LOCK & DAM	***											
UPBOUND STATISTICS	66	74	8	148	135	33	168	72	45	12	129	77
DOWNBOUND STATISTICS	69	128	3	200	36	131	167	74	72	13	159	78
TOTALS	135	202	11	348	171	164	335	146	117	25	288	155
GEORGE W ANDREWS LOCK & DAM	***											
UPBOUND STATISTICS	44	139	7	190	79	20	99	52	100	4	156	37
DOWNBOUND STATISTICS	40	179	5	224	21	68	89	44	121	11	176	46
TOTALS	84	318	12	414	100	88	188	96	221	15	332	83
WALTER F GEORGE LOCK & DAM	***											
UPBOUND STATISTICS	5	81	1	87	0	5	5	7	31	5	43	12
DOWNBOUND STATISTICS	5	110	2	117	5	0	5	6	55	7	68	0
TOTALS	10	191	3	204	5	5	10	13	86	12	111	12
TENN TOMBIGBEE WATERWAY												
GAINESVILLE LOCK & DAM	***											
UPBOUND STATISTICS	19	21	12	52	28	16	44	31	18	9	58	18
DOWNBOUND STATISTICS	24	22	7	53	10	30	40	30	19	14	63	63
TOTALS	43	43	19	105	38	46	84	61	37	23	121	81

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K5	MOBILE	SOUTH ATLANTIC	4/83	5/83	6/83

RIVER/LOCK NAME	TOWS	VESSEL	VESSEL	VESSEL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	

(NAV, OPN, ETC)

TENN TOMBIGBEE WATERWAY

ALICEVILLE LOCK & DAM	7	362	6	375	8	11	19	10	280	24	314	12
UPBOUND STATISTICS	9	382	0	391	9	9	18	11	293	26	330	9
DOWNBOUND STATISTICS	16	744	6	766	17	20	37	21	573	50	644	21
TOTALS												

COLUMBUS LOCK & DAM	16	214	9	239	7	15	22	28	143	9	180	12
UPBOUND STATISTICS	19	252	7	278	10	17	27	26	134	8	168	7
DOWNBOUND STATISTICS	35	466	16	517	17	32	49	54	277	17	348	19
TOTALS												

ABERDEEN LOCK & DAM NO DATA RECORDED FOR THIS LOCK

PEARL RIVER

LOCK 1 NO DATA RECORDED FOR THIS LOCK

LOCK 2 NO DATA RECORDED FOR THIS LOCK

LOCK 3 NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERDC K5	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC										MONTHS REPORTED					
												4/83		5/83		6/83	
		APPROACH		LOCK PROCESSING TIME (MIN.)								: DELAYED DELAY		DELAY	DELAY		
				ENTRY		CHAMBER		EXIT				: VESSELS TIME		AVG	MAX		
		MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	(IN MINUTES)			
BLKNAR/TOMBIGBEE RI																	
COFFEEVILLE LOCK		1	8	42	1	4	31	1	11	24	1	8	35	: 596	20886	35.0	199
DEMOPOLIS LOCK & DAM		1	11	45	1	4	22	1	11	38	1	10	81	: 513	16873	32.9	360
WARRIOR LOCK & DAM		1	12	61	1	4	25	4	13	33	1	8	27	: 486	20666	42.5	270
WILLIAM BACON OLIVER LK & DM		1	12	298	1	6	35	1	13	46	1	13	430	: 834	132914	159.4	877
HOLT LOCK & DAM		1	10	59	1	7	30	5	18	51	1	8	37	: 516	26612	51.6	230
JOHN HOLLIS BANKHEAD LK & DM		1	11	56	1	7	28	5	13	56	1	8	28	: 236	8619	36.5	129
ALABAMA-COOSA RIVERS																	
CLAIBORNE LOCK & DAM		1	3	15	1	1	10	1	10	21	1	3	40	: 2	5	2.5	3
MILLERS FERRY LOCK & DAM		1	8	40	1	4	15	5	15	117	1	4	9	: 2	61	30.5	60
JONES BLUFF LOCK & DAM		1	2	13	1	2	12	6	16	31	1	3	12	: 2	9	4.5	5
APLCH/CHTCH/FLNT RI																	
JIM WOODRUFF LOCK & DAM		2	4	25	2	4	38	7	11	27	2	4	28	: 6	161	26.8	55
GEORGE W ANDREWS LOCK & DAM		1	2	5	1	2	7	5	14	38	1	2	8	: 2	8	4.0	5
WALTER F GEORGE LOCK & DAM		1	2	13	1	3	17	5	15	29	1	3	14	: 2	10	5.0	5
TENN TOMBIGBEE WATERWAY																	
GAINESVILLE LOCK & DAM		1	9	38	1	5	27	5	11	21	1	6	27	: 6	2238	373.0	2167
ALICEVILLE LOCK & DAM		1	1	20	1	1	26	5	12	33	1	1	25	: 111	1093	9.8	26
COLUMBUS LOCK & DAM		1	2	35	1	1	34	5	14	37	1	1	10	: 22	202	9.2	23

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K5	MOBILE	SOUTH ATLANTIC	4/83	5/83	6/83

[illegible]

ABERDEEN LOCK & DAM NO DATA RECORDED FOR THIS LOCK

LOCK 1 NO DATA RECORDED FOR THIS LOCK

LOCK 2 NO DATA RECORDED FOR THIS LOCK

LOCK 3 NO DATA RECORDED FOR THIS LOCK

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K6	SAVANNAH	SOUTH ATLANTIC	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
SAVANNAH RIVER	01-NEW SAVANNAH BLUFF LOCK & DAM	0360/0056/12.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC K6	DISTRICT NAME SAVANNAH	DIVISION NAME SOUTH ATLANTIC	4/83	MONTHS REPORTED 5/83	6/83
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RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
												(NAV, OPN, ETC)

SAVANNAH RIVER

NEW SAVANNAH BLUFF LOCK & DAM	***											
UPBOUND STATISTICS	0	26	0	26	0	0	0	0	22	1	23	0
DOWNBOUND STATISTICS	0	30	0	30	0	0	0	0	22	1	23	0
TOTALS	0	56	0	56	0	0	0	0	44	2	46	0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

ERDC K6	DISTRICT NAME SAVANNAH	DIVISION NAME SOUTH ATLANTIC	4/83	MONTHS REPORTED 5/83	6/83
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LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX	
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

SAVANNAH RIVER

NEW SAVANNAH BLUFF LOCK & DA	3	6	20	2	4	10	5	10	22	2	6	20	:	3	40	13.3	20
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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K7	WILMINGTON	SOUTH ATLANTIC	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
CAPE FEAR RIVER	01-LOCK & DAM 1	0200/0040/10.0
	02-LOCK & DAM 2	0200/0040/10.0
	03-WILLIAM D HUSKE LOCK & DAM	0300/0040/10.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

ERDC K7	DISTRICT NAME WILMINGTON	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED									
			4/83	5/83	6/83							
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
CAPE FEAR RIVER												
LOCK & DAM 1	***											
UPBOUND STATISTICS	31	19	1	51	0	31	31	58	10	5	73	32
DOWNBOUND STATISTICS	31	34	1	66	31	0	31	54	14	8	78	0
TOTALS	62	53	2	117	31	31	62	112	26	13	151	32
LOCK & DAM 2	***											
UPBOUND STATISTICS	31	20	0	51	0	31	31	60	3	3	66	62
DOWNBOUND STATISTICS	31	35	0	66	31	0	31	55	10	8	73	0
TOTALS	62	55	0	117	31	31	62	115	13	11	139	62
WILLIAM O HUSKE LOCK & DAM	***											
UPBOUND STATISTICS	31	37	0	68	1	30	31	33	9	0	42	28
DOWNBOUND STATISTICS	31	51	0	82	31	0	31	31	12	3	46	0
TOTALS	62	88	0	150	32	30	62	64	21	3	88	28

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILMINGTON	DIVISION NAME SOUTH ATLANTIC	4/83	MONTHS REPORTED 5/83	6/83
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LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	:			
												:	(IN MINUTES)		

CAPE FEAR RIVER

LOCK & DAM 1	2	3	10	5	5	10	5	14	15	5	5	10	:	42	140	3.3	8
LOCK & DAM 2	5	5	5	5	5	15	5	8	15	5	8	40	:	77	385	5.0	5
WILLIAM O HUSKE LOCK & DAM	2	4	10	5	5	15	20	29	30	5	5	6	:	35	90	2.6	5

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
L2	SACRAMENTO	SOUTH PACIFIC	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
SCRNTO DWSHP CHNL	01-BARGE CANAL LOCK	0640/0086/23.0

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERDC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
M3	GALVESTON	SOUTHWESTERN	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
GULF INTRACOASTAL	11-COLORADO RIVER EAST LOCK	1200/0075/15.0
	12-COLORADO RIVER WEST LOCK	1200/0075/15.0
	13-BRAZOS EAST GATE	9999/0075/15.0
	14-BRAZOS WEST GATE	9999/0075/15.0

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
M4	LITTLE ROCK	SOUTHWESTERN	4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ARKANSAS RIVER	01-MORRELL LOCK & DAM	0600/0110/12.0
	02-LOCK & DAM 2	0600/0110/12.0
	03-LOCK & DAM 3	0600/0110/12.0
	04-LOCK & DAM 4	0600/0110/12.0
	05-LOCK & DAM 5	0600/0110/12.0
	06-DAVID D TERRY LOCK & DAM	0600/0110/12.0
	07-MURRAY LOCK & DAM	0600/0110/12.0
	08-TOAD SUCK FERRY LOCK & DAM	0600/0110/12.0
	09-LOCK & DAM 9	0600/0110/12.0
	10-DARDANELLE LOCK & DAM	0600/0110/12.0
	11-OZARK LOCK & DAM	0600/0110/12.0
	13-LOCK & DAM 13	0600/0110/12.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED									
			4/83			5/83			6/83			
RIVER/LOCK NAME												
TOWS	VESSL RECR TN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECR TN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)	
ARKANSAS RIVER												

NORRELL LOCK & DAM	176	9	19	204	546	355	901	48	8	156	212	512
UPBOUND STATISTICS	169	13	25	207	134	659	793	39	11	165	215	888
DOWNBOUND STATISTICS	345	22	44	411	680	1014	1694	87	19	321	427	1400
TOTALS												

LOCK & DAM 2	176	65	20	261	543	361	904	190	46	7	243	513
UPBOUND STATISTICS	169	56	26	251	133	672	805	180	49	10	239	895
DOWNBOUND STATISTICS	345	121	46	512	676	1033	1709	370	95	17	482	1408
TOTALS												

LOCK & DAM 3	151	33	12	196	474	352	826	158	28	28	214	503
UPBOUND STATISTICS	149	32	16	197	126	597	723	156	28	28	212	850
DOWNBOUND STATISTICS	300	65	28	393	600	949	1549	314	56	56	426	1353
TOTALS												

LOCK & DAM 4	153	26	15	194	462	345	807	163	15	17	195	499
UPBOUND STATISTICS	154	31	18	203	127	589	716	163	22	15	200	771
DOWNBOUND STATISTICS	307	57	33	397	589	934	1523	326	37	32	395	1270
TOTALS												

LOCK & DAM 5	126	158	19	303	336	307	643	141	137	9	287	406
UPBOUND STATISTICS	129	155	12	296	133	435	568	138	134	8	280	660
DOWNBOUND STATISTICS	255	313	31	599	469	742	1211	279	271	17	567	1066
TOTALS												

DAVID D TERRY LOCK & DAM	131	164	22	317	345	307	652	149	122	7	278	406
UPBOUND STATISTICS	129	164	25	318	128	437	565	145	124	8	277	668
DOWNBOUND STATISTICS	260	328	47	635	473	744	1217	294	246	15	555	1074
TOTALS												

MURRAY LOCK & DAM	106	230	6	342	326	232	558	112	180	10	302	318
UPBOUND STATISTICS	101	234	13	348	86	378	464	108	170	7	285	593
DOWNBOUND STATISTICS	207	464	19	690	412	610	1022	220	350	17	587	911
TOTALS												

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERDC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN		MONTHS REPORTED								
				4/83	5/83	6/83						
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
ARKANSAS RIVER												
TOAD SUCK FERRY LOCK & DAM	***											
UPBOUND STATISTICS	105	35	5	145	325	231	556	108	26	12	146	320
DOWNBOUND STATISTICS	99	36	5	140	81	379	460	103	25	12	140	594
TOTALS	204	71	10	285	406	610	1016	211	51	24	286	914
LOCK & DAM 9	***											
UPBOUND STATISTICS	98	109	3	210	310	217	527	100	97	11	208	298
DOWNBOUND STATISTICS	94	111	7	212	78	378	456	97	102	12	211	588
TOTALS	192	220	10	422	388	595	983	197	199	23	419	886
DARDANELLE LOCK & DAM	***											
UPBOUND STATISTICS	130	67	6	203	335	224	559	133	49	16	198	317
DOWNBOUND STATISTICS	124	68	8	200	77	404	481	130	47	18	195	624
TOTALS	254	135	14	403	412	628	1040	263	96	34	393	941
OZARK LOCK & DAM	***											
UPBOUND STATISTICS	95	61	7	163	314	183	497	98	29	10	137	255
DOWNBOUND STATISTICS	89	58	10	157	47	378	425	94	28	12	134	588
TOTALS	184	119	17	320	361	561	922	192	57	22	271	843
LOCK & DAM 13	***											
UPBOUND STATISTICS	97	65	5	167	315	187	502	98	33	19	150	258
DOWNBOUND STATISTICS	90	75	6	171	49	377	426	93	38	20	151	589
TOTALS	187	140	11	338	364	564	928	191	71	39	301	847

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK			DIVISION NAME SOUTHWESTERN						MONTHS REPORTED 4/83			5/83			6/83			
			APPROACH			LOCK PROCESSING TIME (MIN.)						: DELAYED DELAY			DELAY				
			ENTRY			CHAMBER			EXIT			: VESSELS TIME			AVG				
			MIN			AVG			MAX			MIN			AVG				
			MAX			MIN			AVG			MAX			MAX				
ARKANSAS RIVER																			
NORRELL LOCK & DAM			1	5	62	1	4	31	1	3	30	1	5	64	:	20	524	26.2	67
LOCK & DAM 2			1	8	58	1	8	42	5	10	58	1	9	73	:	117	3436	29.4	190
LOCK & DAM 3			1	9	50	1	7	28	5	10	28	1	9	42	:	60	1626	27.1	170
LOCK & DAM 4			1	11	40	1	8	40	5	10	55	1	11	62	:	44	30595	695.3	29280
LOCK & DAM 5			1	7	85	1	5	32	2	9	26	1	8	73	:	214	2296	10.7	82
DAVID D TERRY LOCK & DAM			1	9	50	1	6	47	5	9	22	1	8	40	:	91	1577	17.3	60
MURRAY LOCK & DAM			1	4	34	1	4	26	5	9	35	1	6	45	:	359	3476	9.7	59
TOAD SUCK FERRY LOCK & DAM			1	10	50	1	8	38	5	9	51	1	8	41	:	95	1048	11.0	55
LOCK & DAM 9			1	8	49	1	6	31	5	10	51	1	7	49	:	156	1195	7.7	88
DARDANELLE LOCK & DAM			1	12	54	1	7	77	3	13	42	1	7	40	:	318	1864	5.9	55
OZARK LOCK & DAM			1	11	30	2	10	31	5	11	35	2	10	40	:	229	2022	8.8	70
LOCK & DAM 13			1	9	30	1	9	66	4	11	31	2	10	50	:	57	807	14.2	68

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PERFORMANCE MONITORING SYSTEM: SUMMARY OF LOCK
STATISTICS FOR APRIL-JUNE 1983 (U) ARMY ENGINEER INST
FOR WATER RESOURCES FORT BELVOIR VA M V FLEMING ET AL.
APR 84 IWR-84-SR-1

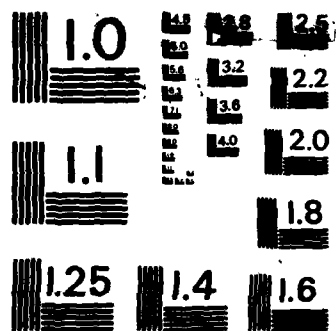
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MICROCOPY RESOLUTION TEST CHART
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PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

ERDC NS	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED		
			4/83	5/83	6/83

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ARKANSAS RIVER	21-W D MAYO LOCK & DAM	0600/0110/14.0
	22-ROBERT S KERR LOCK & DAM & RES	0600/0110/14.0
	23-WEBBERS FALLS LOCK & DAM	0600/0110/14.0
	24-CHOUTEAU LOCK & DAM	0670/0110/14.0
	25-NEWT GRAHAM LOCK & DAM	0670/0110/14.0

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/83 THROUGH 6/83
INSTITUTE FOR WATER RESOURCES

EROC MS	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN						MONTHS REPORTED				
								4/83	5/83	6/83		

RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)

(NAV, OPN, ETC)												

ARKANSAS RIVER												
W D MAYO LOCK & DAM	***											
UPBOUND STATISTICS	97	116	9	222	308	149	457	100	40	6	146	209
DOWNBOUND STATISTICS	91	142	13	246	46	369	415	98	50	7	155	582
TOTALS	188	258	22	468	354	518	872	198	90	13	301	791
ROBERT S KERR LOCK & DAM & RES	***											
UPBOUND STATISTICS	98	125	6	229	310	155	465	101	64	6	171	210
DOWNBOUND STATISTICS	92	138	7	237	46	375	421	99	66	7	172	570
TOTALS	190	263	13	466	356	530	886	200	130	13	343	780
WEBBERS FALLS LOCK & DAM	***											
UPBOUND STATISTICS	92	63	5	160	204	141	345	95	44	4	143	202
DOWNBOUND STATISTICS	89	70	10	169	75	255	330	97	43	3	143	407
TOTALS	181	133	15	329	279	396	675	192	87	7	286	609
CHOUTEAU LOCK & DAM	***											
UPBOUND STATISTICS	80	11	10	101	145	115	260	88	5	5	98	145
DOWNBOUND STATISTICS	77	17	10	104	50	188	238	84	9	5	98	317
TOTALS	157	28	20	205	195	303	498	172	14	10	196	462
NEWT GRAHAM LOCK & DAM	***											
UPBOUND STATISTICS	78	16	10	104	143	112	255	86	15	3	104	140
DOWNBOUND STATISTICS	77	19	12	108	55	189	244	86	17	3	106	306
TOTALS	155	35	22	212	198	301	499	172	32	6	210	446

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/83 THROUGH 6/83
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
MS	TULSA	SOUTHWESTERN	4/83	5/83	6/83

LOCK PROCESSING TIME (MIN.)												:	DELAYED DELAY	DELAY	DELAY	
APPROACH			ENTRY			CHAMBER			EXIT			:	VESSELS TIME	AVG	MAX	
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(IN MINUTES)

ARKANSAS RIVER

W D MAYO LOCK & DAM	1	10	54	:	1	7	50	:	5	9	21	:	1	8	67	:	9	149	16.6	45
ROBERT S KERR LOCK & DAM & RE	1	8	38	:	1	7	39	:	6	14	24	:	2	9	47	:	52	783	15.1	78
WEBBERS FALLS LOCK & DAM	1	12	45	:	1	7	37	:	5	19	59	:	2	6	36	:	54	580	10.7	34
CHOUTEAU LOCK & DAM	1	8	29	:	1	7	65	:	5	15	31	:	2	8	29	:	97	146	1.5	21
HEMT GRAHAM LOCK & DAM	1	9	30	:	1	7	30	:	5	14	36	:	3	11	45	:	40	713	17.8	400

END

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