

AD-A159 651

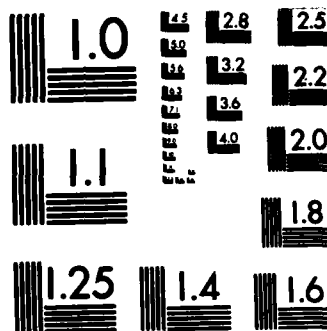
PERFORMANCE MONITORING SYSTEM: SUMMARY OF LOCK
STATISTICS FOR OCTOBER-DECEMBER 1984(U) CORPS OF
ENGINEERS FORT BELVOIR VA WATER RESOURCES SUPPORT CE
M V FLEMING ET AL MAY 85 WRSC-85-SR-2 F/G 13/2

1/1

UNCLASSIFIED

NL

						END							
						FORMED							
						DATE							



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



US Army Corps
of Engineers.
Engineer Institute for
Water Resources

②

AD-A159 651

Performance Monitoring System:

Summary of Lock Statistics for October - December 1984

DTIC FILE COPY

DTIC
ELECTE
SEP 30 1985
S **D**
E

This document has been approved
for public release and sale; its
distribution is unlimited.

May 1985

Summary Report 85-SR-2
85 09 30 012

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 85-SR-2	2. GOVT ACCESSION NO. AD-4159 651	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Performance Monitoring System Summary of Lock Statistics October 1984 - December 1984		5. TYPE OF REPORT & PERIOD COVERED Quarterly Summary Report October 1984 - December 1984
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) Marilyn V. Fleming and Kevin A. Alexander U.S. Army Corps of Engineers Water Resources Support Center Institute for Water Resources		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS U.S. Army Corps of Engineers Water Resources Support Center, IWR Casey Building, Ft. Belvoir, VA 22060-5586		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS Office, Chief of Engineers, U.S. Army Corps of Engineers, Pulaski Building, 20 Massachusetts Avenue, N.W., Washington, D. C. 20314-1000		12. REPORT DATE May 1985
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		13. NUMBER OF PAGES
		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for Public Release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES Although the data are edited, the United States Government does not warrant its suitability for all purposes and does not assume responsibility for results of computations performed with these data.		
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 operators. This quarterly summary is an overview of the collected statistics.		

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

PERFORMANCE MONITORING SYSTEM **SUMMARY OF LOCK STATISTICS** **OCTOBER 1984 - DECEMBER 1984**

Navigation Data Management
 and Applications Branch
 Navigation Division

U.S. Army Corps of Engineers
 Water Resources Support Center
 Institute for Water Resources
 Ft. Belvoir, Virginia 22060-5586



Accession For	
NTIS GRA&I	☒
DTIC TAB	☐
Unannounced	☐
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	

May 1985

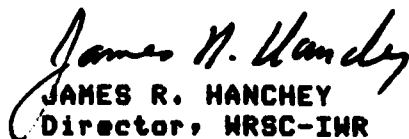
Summary Report 85-SR-2

PREFACE

This report is a product of the Navigation Data Management and Applications 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 (PMS).

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 Applications 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-CWO-M, and Mr. Robert M. Daniel, DAEN-CWP-G.

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

CONTENTS

	Page
Introduction	IX
Appendix A: Performance Monitoring System Quarterly Report October through December, 1984	
New Orleans District	A 1
St. Louis District	A 2
Vicksburg District	A 6
New York District	A 8
Norfolk District	A 11
Buffalo District	A 14
Chicago District	A 17
Detroit District	A 18
Rock Island District	A 19
St. Paul District	A 26
Portland District	A 30
Seattle District	A 32
Walla Walla District	A 33
Huntington District	A 36
Louisville District	A 42
Nashville District	A 48
Pittsburgh District	A 54
Jacksonville District	A 63
Mobile District	A 64
Savannah District	A 70
Wilmington District	A 71
Sacramento District	A 74
Galveston District	A 75
Little Rock District	A 78
Tulsa District	A 82
Appendix B: Glossary	

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:

of Engineers

Locks (Waterways); Water Traffic; Barges; Merchant Vessels; Ships; Delay Tables (Data)

TABLE 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.

TABLE 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.

TABLE 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.

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
B2	NEW ORLEANS	LOWER MISS VALLEY	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ATCHAFALAYA RIVER	11-BERNICK LOCK	0307/0045/11.0
BAYOU TECHE	31-KEYSTONE LOCK	0162/0036/12.0
FRESHWATER BAYOU	41-FRESHWATER BAYOU LOCK	0600/0084/15.0
GULF INTRACOASTAL	1-PORT ALLEN LOCK	1198/0084/15.0
	2-BAYOU SORREL LOCK	0800/0056/16.0
	3-INNER HRBR NAVIGATION CANL LK	0646/0075/40.0
	4-ALGERS LOCK	0797/0075/15.0
	5-HARVEY LOCK	0425/0075/14.0
	6-BAYOU BOEUF LOCK	1158/0075/15.0
	7-VERMILLION LOCK	1200/0056/14.0
	8-CALCASIEU LOCK	1205/0075/15.0
	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
OLD RIVER	51-OLD RIVER LOCK	1200/0075/15.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
B3	ST. LOUIS	LOWER MISS VALLEY	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
KASKASKIA RIVER	1-KASKASKIA RIVER NAVIGATION LK	0610/0084/12.0
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	0380/0110/12.0
	27-CHAIN OF ROCKS LOCK & DAM 27	1210/0110/12.0
	27-CHAIN OF ROCKS LK & DM 27 AX1	0610/0110/12.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC B3	DISTRICT NAME ST. LOUIS	DIVISION NAME LOWER MISS VALLEY					MONTHS REPORTED						
							10/84	11/84		12/84			
RIVER/LOCK NAME													
		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
KASKASKIA RIVER													
KASKASKIA RIVER NAVAGATION LK		XXX											
UPBOUND STATISTICS		170	50	56	276	460	246	706	225	48	0	273	186
DOWNBOUND STATISTICS		174	49	58	281	218	484	702	234	47	0	281	720
TOTALS		344	99	114	557	678	730	1408	459	95	0	554	907
MISSISSIPPI RIVER													
LOCK & DAM 24		XXX											
UPBOUND STATISTICS		375	14	51	440	2405	1320	3725	623	14	12	649	2032
DOWNBOUND STATISTICS		481	40	15	536	338	5218	5556	826	50	15	891	7359
TOTALS		856	54	66	976	2743	6538	9281	1449	64	27	1540	9391
LOCK & DAM 25		XXX											
UPBOUND STATISTICS		375	20	95	490	2388	1317	3705	621	16	95	732	2130
DOWNBOUND STATISTICS		482	63	51	602	353	5229	5582	813	54	105	972	7370
TOTALS		863	83	146	1092	2741	6546	9287	1434	70	200	1704	9500
LOCK & DAM 26		XXX											
UPBOUND STATISTICS		579	0	29	608	4960	2501	7461	1099	0	7	1106	3793
DOWNBOUND STATISTICS		739	2	7	748	617	8906	9523	1402	0	11	1413	12656
TOTALS		1318	2	36	1356	5577	11407	16984	2501	0	18	2519	16449
LOCK & DAM 26 AUX 1		XXX											
UPBOUND STATISTICS		384	18	104	506	741	725	1466	734	9	12	755	1314
DOWNBOUND STATISTICS		367	201	72	640	468	1024	1492	683	109	12	804	1538
TOTALS		751	219	176	1146	1209	1749	2958	1417	118	24	1559	2852
CHAIN OF ROCKS LOCK & DAM 27		XXX											
UPBOUND STATISTICS		992	6	186	1184	5725	3386	9111	1036	2	10	1048	5571
DOWNBOUND STATISTICS		1105	35	122	1262	1131	9806	10937	1106	10	16	1132	14040
TOTALS		2097	41	308	2446	6856	13192	20048	2142	12	26	2180	19612

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED			
B3	ST. LOUIS	LOWER MISS VALLEY	10/84	11/84	12/84	

RIVER/LOCK NAME	TONS	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)												

MISSISSIPPI RIVER

CHAIN OF ROCKS LK & DM 27 AX1	xxx											
UPBOUND STATISTICS	240	14	118	372	339	203	542	325	6	20	351	302
DOWNBOUND STATISTICS	295	160	83	538	289	628	917	363	54	19	436	901
TOTALS	535	174	201	910	628	831	1459	688	60	39	787	1203

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
B4	VICKSBURG	LOWER MISS VALLEY	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
OUCHITA/BLACK RIV	1-JONESVILLE LOCK & DAM	0600/0084/23.4
	2-COLUMBIA LOCK & DAM	0600/0084/27.4
	6-LOCK & DAM 6	0268/0055/17.4
	8-LOCK & DAM 8	0268/0055/19.0
RED RIVER	1-RED RIVER LOCK & DAM #1	0685/0084/ 9.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC B4	DISTRICT NAME VICKSBURG			DIVISION NAME LOWER MISS VALLEY			MONTHS REPORTED 10/8411/8412/84												
ALL TIMES EXPRESSED IN MINUTES																			
APPROACH			LOCK PROCESSING TIME						EXIT		DELA TOWS		DELA TIME (TOWS)		DELA AVG (TOWS)		DELA MAX (ALL VSSLS)		
			ENTRY			CHAMBER													
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX								
HUDSON RIVER																			
JONESVILLE LOCK & DAM			1	6	25	1	5	31	1	12	60	1	7	58	:	34	228	2.8	25
COLUMBIA LOCK & DAM			3	5	8	3	5	10	7	14	40	3	6	23	:				
LOCK & DAM 6			NO DATA RECORDED FOR THIS LOCK																
LOCK & DAM 8			NO DATA RECORDED FOR THIS LOCK																
RED RIVER																			
RED RIVER LOCK & DAM #1			NO DATA RECORDED FOR THIS LOCK																

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E3	NEW YORK	NORTH ATLANTIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
HUDSON RIVER	1-TROY LOCK & DAM	0493/0044/15.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC E3	DISTRICT NAME NEW YORK	DIVISION NAME NORTH ATLANTIC	MONTHS REPORTED											
			10/84			11/84			12/84					
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONMER	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
HUDSON RIVER														
TROY LOCK & DAM			XXX											
UPBOUND STATISTICS			56	91	3	150	1	62	63	65	67	25	157	123
DOWNBOUND STATISTICS			66	262	1	329	65	5	70	72	190	24	286	0
TOTALS			122	353	4	479	66	67	133	137	257	49	443	124

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E4	NORFOLK	NORTH ATLANTIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ATLANT INTRACOASTAL	11-GREAT BRIDGE GUARD LOCK	0600/0075/16.0
DISMAL SWAMP	1-DEEP CREEK LOCK	0300/0052/12.0
	2-SOUTH HILLS LOCK	0300/0052/12.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC	MONTHS REPORTED										
			10/84		11/84		12/84						
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
ATLANT INTRCOASTAL													
GREAT BRIDGE GUARD LOCK		xxx											
UPBOUND STATISTICS		166	226	67	459	82	122	204	223	137	12	372	136
DOWNBOUND STATISTICS		170	2667	59	2896	125	82	207	228	676	17	921	84
TOTALS		336	2893	126	3355	207	204	411	451	813	29	1293	221
DISMAL SWAMP													
DEEP CREEK LOCK		xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		0	300	1	301	0	0	0	0	89	0	89	0
DOWNBOUND STATISTICS		0	29	0	29	0	0	0	1	19	0	20	0
TOTALS		0	329	1	330	0	0	0	1	108	0	109	0
SOUTH MILLS LOCK		xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		0	28	0	28	0	0	0	2	19	0	21	0
DOWNBOUND STATISTICS		0	303	0	303	0	0	0	1	85	1	87	0
TOTALS		0	331	0	331	0	0	0	3	104	1	108	0

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC	MONTHS REPORTED															
			10/84				11/84				12/84							
ALL TIMES EXPRESSED IN MINUTES																		
APPROACH			LOCK PROCESSING TIME						EXIT			: DELAYED		DELAY	DELAY	DELAY	DELAY	
			ENTRY						CHAMBER					: TONS		TIME	AVG	MAX
MIN AVG MAX			: MIN AVG MAX						: MIN AVG MAX			: MIN AVG MAX				(TONS)	(TONS)	(ALL VSSLS)
ATLANT INTRCOASTAL																		
GREAT BRIDGE GUARD LOCK																		
	1	3	10	2	4	10	2	7	45	1	4	56	:	336	1600	4.8	43	
DISMAL SWAMP																		
DEEP CREEK LOCK																		
	4	4	5	3	4	5	10	10	20	5	5	35	:	0	0	.0	7	
SOUTH HILLS LOCK																		
	2	4	6	3	4	7	10	10	11	3	5	25	:	0	0	.0	120	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/04 THROUGH 12/04
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F1	BUFFALO	NORTH CENTRAL	10/04	11/04	12/04

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
BLK ROCK CH/TOMAHAWKA	1-BLACK ROCK LOCK	0650/0070/21.7

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F1	DISTRICT NAME BUFFALO	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/84			11/84			12/84			
RIVER/LOCK NAME	TONS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRN	OTHER	TOTAL	
		(NAV, OPN, ETC)										

BLK ROCK CH/TONAWANDA

BLACK ROCK LOCK	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	1	190	20	211	0	1	1	24	94	9	127	7
DOWNBOUND STATISTICS	15	311	6	332	0	17	17	25	166	14	205	135
TOTALS	16	501	26	543	0	18	18	49	260	23	332	142

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F1	DISTRICT NAME BUFFALO			DIVISION NAME NORTH CENTRAL			MONTHS REPORTED 10/8411/8412/84										
ALL TIMES EXPRESSED IN MINUTES																	
APPROACH			LOCK PROCESSING TIME						: DELAYED DELAY			DELAY		DELAY			
MIN AVG MAX			ENTRY CHAMBER			EXIT			: TONS TIME			AVG		MAX			
												(TONS)			(ALL VSSLS)		
BLK ROCK CH/TOMAHAWKA																	
BLACK ROCK LOCK11101115911161111:00.032																	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F2	CHICAGO	NORTH CENTRAL	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
CHICAGO HARBOR	1-CHICAGO LOCK	0600/0080/22.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F3	DETROIT	NORTH CENTRAL	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
FOX RIVER	11-DE PERE LOCK & DAM	0146/0036/ 6.0			
	12-LITTLE KAUKAUMA LOCK & DAM	0146/0036/ 6.0			
	13-RAPIDE CROCHE LOCK & DAM	0146/0036/ 6.0			
	21-KAUKAUMA LOCK 1	0144/0035/ 6.0			
	22-KAUKAUMA LOCK 2	0144/0035/ 6.0			
	23-KAUKAUMA LOCK 3	0144/0031/ 6.0			
	24-KAUKAUMA LOCK 4	0144/0037/ 6.0			
	25-KAUKAUMA LOCK 5	0144/0036/ 6.0			
	32-LITTLE CHUTE LOCK 2	0147/0035/ 6.0			
	33-LITTLE CHUTE COMB LOCKS UPPER	0144/0036/ 6.0			
	34-LITTLE CHUTE COMB LOCKS LOWER	0147/0035/ 6.0			
	35-CEDARS LOCK & DAM	0144/0035/ 6.0			
	41-APPLETON LOCK 1	0145/0034/ 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-MENASHA LOCK & DAM	0144/0034/ 6.0			
THE INLAND ROUTE ST MARYS RIVER	11-ALANSON LOCK	0066/0018/ 7.0			
	1-MACARTHUR LOCK	0800/0080/31.0			
	2-NEW POE LOCK	1200/0110/32.0			
	3-DAVIS LOCK00	1350/0080/31.0			
	4-SABIN LOCK00	1350/0080/31.0			

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F4	ROCK ISLAND	NORTH CENTRAL	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ILLINOIS	1-THOMAS J O'BRIEN	1000/0110/12.0
	2-LOCKPORT LOCK	0600/0110/12.0
	3-BRANDON ROAD LOCK & DAM	0600/0110/12.0
	4-DRESDEN ISLAND LOCK & DAM	0600/0110/12.0
	5-MARSELLES LOCK & DAM	0600/0110/12.0
	6-STARVED ROCK LOCK & DAM	0600/0110/12.0
	7-PEORIA LOCK & DAM	0600/0110/12.0
	8-LAGRANGE LOCK & DAM	0600/0110/12.0
MISSISSIPPI RIVER	11-LOCK & DAM 11	0600/0110/10.0
	12-LOCK & DAM 12	0600/0110/10.0
	13-LOCK & DAM 13	0600/0110/10.0
	14-LOCK & DAM 14	0600/0110/10.0
	14-LOCK & DAM 14 AUXILIARY 1	0320/0080/10.0
	15-LOCK & DAM 15	0600/0110/10.0
	15-LOCK & DAM 15 AUXILIARY 1	0360/0110/10.0
	16-LOCK & DAM 16	0600/0110/10.0
	17-LOCK & DAM 17	0600/0110/10.0
	18-LOCK & DAM 18	0600/0110/10.0
	19-LOCK & DAM 19	1200/0110/10.0
	19-LOCK & DAM 19 AUXILIARY 1	1350/0110/10.0
	20-LOCK & DAM 20	0600/0110/10.0
	21-LOCK & DAM 21	0600/0110/10.0
	22-LOCK & DAM 22	0600/0110/10.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND			DIVISION NAME NORTH CENTRAL				MONTHS REPORTED					
								10/84	11/84			12/84	
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)	
ILLINOIS													
THOMAS J O'BRIEN		XXX											
UPBOUND STATISTICS	303	185	53	541	336	566	902	351	135	2	488	862	
DOWNBOUND STATISTICS	284	823	60	1167	399	434	833	342	350	4	696	694	
TOTALS	587	1008	113	1708	735	1000	1735	693	485	6	1184	1556	
LOCKPORT LOCK		XXX											
UPBOUND STATISTICS	497	16	56	569	463	2064	2527	560	9	0	569	3087	
DOWNBOUND STATISTICS	508	156	62	726	1586	901	2487	573	63	1	637	1476	
TOTALS	1005	172	118	1295	2049	2965	5014	1133	72	1	1206	4563	
BRANDON ROAD LOCK & DAM		XXX											
UPBOUND STATISTICS	512	15	131	658	539	2045	2584	622	10	1	633	3084	
DOWNBOUND STATISTICS	504	164	131	799	1547	966	2513	620	75	2	697	1583	
TOTALS	1016	179	262	1457	2086	3011	5097	1242	85	3	1330	4668	
DRESDEN ISLAND LOCK & DAM		XXX											
UPBOUND STATISTICS	433	36	33	502	554	2031	2585	564	30	9	603	3132	
DOWNBOUND STATISTICS	451	145	26	622	1476	1124	2600	557	93	7	657	1905	
TOTALS	884	181	59	1124	2030	3155	5185	1121	123	16	1260	5037	
MARSELLES LOCK & DAM		XXX											
UPBOUND STATISTICS	428	57	36	521	726	1903	2629	581	38	10	629	3032	
DOWNBOUND STATISTICS	440	134	32	606	1267	1416	2683	580	93	11	684	2309	
TOTALS	868	191	68	1127	1993	3319	5312	1161	131	21	1313	5342	
STARVED ROCK LOCK & DAM		XXX											
UPBOUND STATISTICS	455	46	22	523	1029	1947	2976	619	38	3	660	3112	
DOWNBOUND STATISTICS	456	128	21	605	1252	1734	2986	611	101	6	718	2751	
TOTALS	911	174	43	1128	2281	3681	5962	1230	139	9	1378	5864	
PEORIA LOCK & DAM		XXX											
UPBOUND STATISTICS	490	27	34	551	2031	2264	4295	711	16	72	799	3622	
DOWNBOUND STATISTICS	507	134	16	657	1289	2942	4231	693	97	77	867	4442	
TOTALS	997	161	50	1208	3320	5206	8526	1404	113	149	1666	8065	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME												
TONS												
VESSL												
RECRTN												
OTHER												
VESSL												
TOTAL												
BARGS												
EMPTY												
FULL												
BARGES												
TOTAL												
LOCKGS												
COMMER												
LCKGES												
RECRTN												
OTHER												
LCKGES												
TOTAL												
TONNAGE												
(KTONS)												
(NAV, OPN, ETC)												
ILLINOIS												
LAGRANGE LOCK & DAM												
XXX												
UPBOUND STATISTICS												
472 16 24 512 2825 1858 4683 635 9 137 781 3063												
DOWNBOUND STATISTICS												
495 150 12 657 738 3967 4705 589 94 161 844 5833												
TOTALS												
967 166 36 1169 3563 5825 9388 1224 103 298 1625 8896												
MISSISSIPPI RIVER												
LOCK & DAM 11												
XXX												
UPBOUND STATISTICS												
177 83 46 306 941 716 1657 285 77 26 388 1101												
DOWNBOUND STATISTICS												
240 112 21 373 127 2553 2680 392 109 27 528 3645												
TOTALS												
417 195 67 679 1068 3269 4337 677 186 53 916 4747												
LOCK & DAM 12												
XXX												
UPBOUND STATISTICS												
193 88 42 323 1053 811 1864 320 59 24 403 1229												
DOWNBOUND STATISTICS												
267 120 12 399 134 2876 3010 439 115 24 578 4070												
TOTALS												
460 208 54 722 1187 3687 4874 759 174 48 981 5300												
LOCK & DAM 13												
XXX												
UPBOUND STATISTICS												
195 124 46 365 1064 816 1880 325 66 18 409 1244												
DOWNBOUND STATISTICS												
269 174 9 452 136 2896 3032 445 109 21 575 4098												
TOTALS												
464 298 55 817 1200 3712 4912 770 175 39 984 5343												
LOCK & DAM 14												
XXX												
UPBOUND STATISTICS												
300 122 62 484 1488 946 2434 467 65 9 541 1431												
DOWNBOUND STATISTICS												
383 172 19 574 181 3546 3727 604 98 14 716 4840												
TOTALS												
683 294 81 1058 1669 4492 6161 1071 163 23 1257 6271												
LOCK & DAM 14 AUXILIARY 1												
NO DATA RECORDED FOR THIS LOCK												
LOCK & DAM 15												
XXX												
UPBOUND STATISTICS												
295 5 61 361 1362 987 2349 473 4 12 489 1512												
DOWNBOUND STATISTICS												
373 5 27 405 248 3394 3642 634 6 7 647 4779												
TOTALS												
668 10 88 766 1610 4381 5991 1107 10 19 1136 6292												

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED											
			10/84		11/84		12/84							
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)														
MISSISSIPPI RIVER														
LOCK & DAM 15 AUXILIARY 1			XXX											
UPBOUND STATISTICS			86	101	38	225	60	61	121	122	49	2	173	91
DOWNBOUND STATISTICS			82	168	51	301	78	44	122	133	88	1	222	59
TOTALS			168	269	89	526	138	105	243	255	137	3	395	150
LOCK & DAM 16			XXX											
UPBOUND STATISTICS			344	26	95	465	1698	1148	2846	563	24	21	608	1752
DOWNBOUND STATISTICS			448	44	44	536	360	3921	4281	731	47	12	790	5524
TOTALS			792	70	139	1001	2058	5069	7127	1294	71	33	1398	7276
LOCK & DAM 17			XXX											
UPBOUND STATISTICS			304	14	56	374	1703	1169	2872	503	18	24	545	1783
DOWNBOUND STATISTICS			399	41	10	450	289	4098	4387	683	61	14	758	5765
TOTALS			703	55	66	824	1992	5267	7259	1186	79	38	1303	7549
LOCK & DAM 18			XXX											
UPBOUND STATISTICS			307	29	68	404	1826	1180	3006	528	34	23	585	1809
DOWNBOUND STATISTICS			406	52	17	475	278	4288	4566	700	68	16	784	6033
TOTALS			713	81	85	879	2104	5468	7572	1228	102	39	1369	7842
LOCK & DAM 19			XXX											
UPBOUND STATISTICS			303	9	84	396	2041	1255	3296	340	7	10	357	1931
DOWNBOUND STATISTICS			409	39	36	484	268	4691	4959	418	24	9	451	6592
TOTALS			712	48	120	880	2309	5946	8255	758	31	19	808	8523
LOCK & DAM 19 AUXILIARY 1			NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 20			XXX											
UPBOUND STATISTICS			322	11	85	418	2173	1232	3405	585	9	12	606	1894
DOWNBOUND STATISTICS			418	35	47	500	258	4819	5077	773	41	13	827	6776
TOTALS			740	46	132	918	2431	6051	8482	1358	50	25	1433	8671
LOCK & DAM 21			XXX											
UPBOUND STATISTICS			332	15	74	421	2212	1237	3449	586	14	11	611	1933
DOWNBOUND STATISTICS			438	45	34	517	307	4872	5179	798	44	11	853	6858
TOTALS			770	60	108	938	2519	6109	8628	1384	58	22	1464	8791

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/84			11/84			12/84			
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)												
MISSISSIPPI RIVER												
LOCK & DAM 22												
XXX												
UPBOUND STATISTICS	341	20	57	418	2254	1255	3509	584	14	24	622	1948
DOWNBOUND STATISTICS	457	71	17	545	281	5031	5312	796	52	25	873	7102
TOTALS	798	91	74	963	2535	6286	8821	1380	66	49	1495	9051

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

ERO F4	DISTRICT NAME ROCK ISLAND			DIVISION NAME NORTH CENTRAL						MONTHS REPORTED											
										10/84				11/84				12/84			
ALL TIMES EXPRESSED IN MINUTES																					
APPROACH			LOCK PROCESSING TIME						:		DELAYED TONS	DELAY TIME (TOMS)	DELAY AVG (TOMS)	DELAY MAX (ALL VSSLS)							
			ENTRY	CHAMBER			EXIT	:													
MIN	AVG	MAX :		MIN	AVG	MAX :			MIN	AVG	MAX :	MIN	AVG	MAX :							
ILLINOIS																					
THOMAS J O'BRIEN	1	3	39	1	2	24	1	14	47	1	2	25 :	85	1167	2.0	47					
LOCKPORT LOCK	1	10	138	1	12	434	6	25	79	1	11	109 :	800	105092	104.6	2015					
BRANDON ROAD LOCK & DAM	1	11	110	1	11	409	5	21	75	1	11	404 :	875	160843	158.3	6796					
DRESDEN ISLAND LOCK & DAM	1	9	416	1	9	342	2	16	429	1	12	70 :	511	41391	46.8	983					
MARSHIELLES LOCK & DAM	1	10	125	1	9	65	2	19	395	1	15	73 :	551	83828	96.6	1440					
STARVED ROCK LOCK & DAM	1	7	125	1	9	63	1	15	50	1	13	89 :	495	87274	95.8	1745					
PEORIA LOCK & DAM	1	7	121	1	10	39	1	9	51	1	16	69 :	954	249165	249.9	3896					
LAGRANGE LOCK & DAM	1	8	121	1	9	64	1	6	30	1	17	94 :	858	114676	118.6	1877					
MISSISSIPPI RIVER																					
LOCK & DAM 11	1	8	68	1	7	37	2	9	70	1	13	125 :	206	17390	41.7	1040					
LOCK & DAM 12	1	10	73	1	7	49	1	7	70	1	14	82 :	219	24977	54.3	670					
LOCK & DAM 13	1	6	50	1	7	31	4	8	37	1	14	143 :	189	15177	32.7	1090					
LOCK & DAM 14	1	7	100	1	7	67	3	8	68	1	14	91 :	399	53974	79.0	905					
LOCK & DAM 14 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																				
LOCK & DAM 15	1	10	164	1	8	214	1	10	55	1	16	160 :	354	41442	62.0	405					
LOCK & DAM 15 AUXILIARY 1	1	3	25	1	2	21	3	10	177	1	2	17 :	31	340	2.0	25					

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

ERDC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED														
			10/84						11/84			12/84					
			ALL TIMES EXPRESSED IN MINUTES														
			APPROACH			LOCK PROCESSING TIME						EXIT		: DELAYED DELAY		DELAY	DELAY
MIN	AVG	MAX :	MIN	AVG	MAX :	MIN	AVG	MAX :	MIN	AVG	MAX :	TONS	TIME	AVG	MAX		
													(TONS)	(TONS)	(ALL VSSLS)		
MISSISSIPPI RIVER																	
LOCK & DAM 16	1	11	445	1	8	428	1	9	81	1	17	415 :	531	66506	84.0	775	
LOCK & DAM 17	1	11	113	1	8	125	2	9	454	1	15	110 :	462	54718	77.8	1535	
LOCK & DAM 18	1	10	603	1	9	134	1	7	82	1	17	855 :	448	60121	84.3	1804	
LOCK & DAM 19	1	20	117	1	8	43	2	17	693	1	11	763 :	391	38147	53.6	1440	
LOCK & DAM 19 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																
LOCK & DAM 20	1	7	75	1	9	405	2	6	52	1	17	144 :	457	60045	81.1	530	
LOCK & DAM 21	1	10	77	1	9	68	2	6	49	1	17	87 :	490	70673	91.8	900	
LOCK & DAM 22	1	13	155	1	9	38	1	6	25	1	18	107 :	590	159706	200.1	46520	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F5	ST. PAUL	NORTH CENTRAL	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
MISSISSIPPI RIVER	1-LOCK & DAM 1 MAIN CHBR 1	0400/0056/11.0
	1-LOCK & DAM 1 MAIN CHBR 2	0400/0056/11.0
	2-LOCK & DAM 2	0600/0110/11.0
	2-LOCK & DAM 2 AUXILIARY 1	0500/0110/11.0
	3-LOCK & DAM 3	0600/0110/11.0
	4-LOCK & DAM 4	0600/0110/11.0
	5-LOCK & DAM 5	0600/0110/11.0
	6-LOCK & DAM 6	0600/0110/11.0
	7-LOCK & DAM 7	0600/0110/11.0
	8-LOCK & DAM 8	0600/0110/11.0
	9-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

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED											
			10/84		11/84		12/84							
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 1 MAIN CHBR 1			*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS			198	125	14	337	159	205	364	214	65	0	279	275
DOWNBOUND STATISTICS			203	138	9	350	191	186	377	214	68	1	283	274
TOTALS			401	263	23	687	350	391	741	428	133	1	562	550
LOCK & DAM 1 MAIN CHBR 2			NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 2			***											
UPBOUND STATISTICS			226	161	28	415	1096	459	1555	299	121	8	428	694
DOWNBOUND STATISTICS			260	146	9	415	125	2020	2145	370	107	8	485	2889
TOTALS			486	307	37	830	1221	2479	3700	669	228	16	913	3583
LOCK & DAM 2 AUXILIARY 1			NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 3			*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS			169	215	28	412	809	479	1288	237	136	48	421	723
DOWNBOUND STATISTICS			200	267	10	477	123	1724	1847	282	149	50	481	2487
TOTALS			369	482	38	889	932	2203	3135	519	285	98	902	3211
LOCK & DAM 4			***											
UPBOUND STATISTICS			166	94	24	284	874	480	1354	244	83	8	335	736
DOWNBOUND STATISTICS			204	109	6	319	102	1909	2011	311	105	16	432	2769
TOTALS			370	203	30	603	976	2389	3365	555	188	24	767	3505
LOCK & DAM 5			*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS			167	68	21	256	892	473	1365	249	64	17	330	737
DOWNBOUND STATISTICS			203	80	3	286	90	1910	2000	312	84	26	422	2772
TOTALS			370	148	24	542	982	2383	3365	561	148	43	752	3509
LOCK & DAM 6			***											
UPBOUND STATISTICS			179	82	14	275	1054	535	1589	262	84	24	370	800
DOWNBOUND STATISTICS			213	107	3	323	79	2180	2259	320	131	26	477	3156
TOTALS			392	189	17	598	1133	2715	3848	582	215	50	847	3956

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME	TONS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGFS	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	CONMER	RECRTN	OTHER	TOTAL	
(NAV, OPN, ETC)												
MISSISSIPPI RIVER												
LOCK & DAM 7	XXX											
UPBOUND STATISTICS	178	105	37	320	1056	518	1574	288	99	16	403	784
DOWNBOUND STATISTICS	216	136	18	370	81	2210	2291	338	152	21	511	3176
TOTALS	394	241	55	690	1137	2728	3865	626	251	37	914	3961
LOCK & DAM 8	XXX											
UPBOUND STATISTICS	180	93	20	293	1062	572	1634	264	83	27	374	870
DOWNBOUND STATISTICS	213	113	10	336	87	2288	2375	333	122	31	486	3282
TOTALS	393	206	30	629	1149	2860	4009	597	205	58	860	4153
LOCK & DAM 9	XXX											
UPBOUND STATISTICS	162	107	26	295	805	700	1505	246	82	18	346	1049
DOWNBOUND STATISTICS	209	127	2	338	116	2229	2345	325	113	24	462	3192
TOTALS	371	234	28	633	921	2929	3850	571	195	42	808	4241
LOCK & DAM 10	XXX											
UPBOUND STATISTICS	183	127	31	341	999	706	1705	274	115	52	441	1064
DOWNBOUND STATISTICS	240	165	4	409	100	2543	2643	365	152	62	579	3629
TOTALS	423	292	35	750	1099	3249	4348	639	267	114	1020	4694
ST ANTHONY FALLS UPPER L & D	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	123	48	36	207	126	58	184	148	32	0	180	95
DOWNBOUND STATISTICS	129	55	26	210	47	149	196	149	33	0	182	220
TOTALS	252	103	62	417	173	207	380	297	65	0	362	315
ST ANTHONY FALLS LOWER L & D	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	198	60	20	278	159	205	364	215	30	0	245	284
DOWNBOUND STATISTICS	205	64	12	281	192	186	378	215	31	0	246	277
TOTALS	403	124	32	559	351	391	742	430	61	0	491	562
LOCK & DAM 5A	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	165	68	42	275	886	466	1352	240	49	218	507	714
DOWNBOUND STATISTICS	204	87	21	312	92	1908	2000	286	78	234	598	2753
TOTALS	369	155	63	587	978	2374	3352	526	127	452	1105	3467

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL			DIVISION NAME NORTH CENTRAL									MONTHS REPORTED									
													10/84			11/84			12/84			
ALL TIMES EXPRESSED IN MINUTES																						
APPROACH			LOCK PROCESSING TIME									: DELAYED			DELAY	DELAY	DELAY	DELAY				
			ENTRY	CHAMBER			EXIT	: TONS	TIME	AVG	MAX											
MIN	AVG	MAX										: MIN	AVG	MAX	: MIN	AVG	MAX	:	(TONS)	(TONS)	(TONS)	(ALL VSSLS)
MISSISSIPPI RIVER																						
LOCK & DAM 1 MAIN CHBR 1	1	5	44	1	6	24	3	13	56	1	5	20	:	48	1027	2.6	45					
LOCK & DAM 1 MAIN CHBR 2	NO DATA RECORDED FOR THIS LOCK																					
LOCK & DAM 2	1	8	120	1	7	55	5	9	50	1	10	56	:	196	11399	23.5	270					
LOCK & DAM 2 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																					
LOCK & DAM 3	1	9	108	1	7	55	3	6	55	1	11	76	:	160	9233	25.0	660					
LOCK & DAM 4	1	8	65	1	8	29	4	6	18	1	14	69	:	154	8067	21.8	165					
LOCK & DAM 5	1	7	83	1	7	25	4	7	33	1	12	66	:	140	6336	17.1	182					
LOCK & DAM 6	1	9	79	1	7	30	4	5	26	1	14	111	:	163	11814	30.1	392					
LOCK & DAM 7	1	8	92	1	8	99	2	5	16	1	12	59	:	178	13555	34.4	354					
LOCK & DAM 8	1	8	67	1	7	101	3	7	56	1	15	54	:	174	11547	29.4	267					
LOCK & DAM 9	1	9	80	1	8	28	3	6	16	1	15	82	:	135	10325	27.8	553					
LOCK & DAM 10	1	8	110	1	7	69	4	6	39	1	13	71	:	204	27511	65.0	622					
ST ANTHONY FALLS UPPER L & D	1	2	35	1	4	27	6	9	20	1	4	55	:	8	384	1.5	150					
ST ANTHONY FALLS LOWER L & D	1	3	22	1	5	21	4	11	24	1	4	29	:	59	1259	3.1	43					
LOCK & DAM 5A	1	7	75	1	5	25	4	6	16	1	9	42	:	173	10426	28.3	351					

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G2	PORTLAND	NORTH PACIFIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
COLUMBIA RIVER	1-BONNEVILLE LOCK & DAM	0500/0075/15.0
	2-THE DALLES DAM	0675/0086/15.0
	3-JOHN DAY LOCK & DAM	0675/0086/15.0
WILLAMETTE RIVER	11-WILLAMETTE FALLS LOCKS 1 - 4	0210/0040/ 6.5
	15-WILLAMETTE FALLS GUARD LOCK	0210/0040/ 6.5

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC G2	DISTRICT NAME PORTLAND			DIVISION NAME NORTH PACIFIC			MONTHS REPORTED												
							10/84			11/84			12/84						
ALL TIMES EXPRESSED IN MINUTES																			
APPROACH			LOCK PROCESSING TIME						DELAYED	DELAY	DELAY	DELAY							
			ENTRY			CHAMBER			EXIT	:	TONS	TIME	AVG	MAX					
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	TONS	(TONS)	(TONS)	(ALL VSSLS)
BONNEVILLE LOCK & DAM			1	7	60	1	6	60	5	23	100	1	4	28	:				
THE DALLES DAM			1	5	25	2	6	30	5	22	83	1	5	25	:				
JOHN DAY LOCK & DAM			3	5	15	2	6	28	5	24	118	2	5	20	:				
WILLAMETTE FALLS LOCKS 1 - 4			1	1	18	1	2	33	10	30	98	1	2	12	:				
WILLAMETTE FALLS GUARD LOCK			1	1	5	1	1	19	1	1	42	1	1	17	:				

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G3	SEATTLE	NORTH PACIFIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
LAKE WASHINGTON SHIP CA	1-HIRAM M CHITTENDEN LOCKS	0760/0080/30.0
	1-HIRAM M CHITTENDEN LOCKS AUX1	0150/0028/25.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G4	WALLA WALLA	NORTH PACIFIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
COLUMBIA RIVER	24-MCNARY LOCK & DAM	0675/0086/14.0			
SNAKE RIVER	1-ICE HARBOR LOCK & DAM	0675/0086/14.0			
	2-LOWER MONUMENTAL LOCK & DAM	0675/0086/14.0			
	3-LITTLE GOOSE LOCK & DAM	0675/0086/14.0			
	4-LOWER GRANITE LOCK & DAM	0675/0086/14.0			

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC G4	DISTRICT NAME WALLA WALLA	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED									
			10/84		11/84		12/84					
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)												
COLUMBIA RIVER												
MCNARY LOCK & DAM	xxx											
UPBOUND STATISTICS	176	12	5	193	373	255	628	181	7	1	189	417
DOWNBOUND STATISTICS	173	13	5	191	57	552	609	181	8	2	191	1354
TOTALS	349	25	10	384	430	807	1237	362	15	3	380	1771
SNAKE RIVER												
ICE HARBOR LOCK & DAM	xxx											
UPBOUND STATISTICS	163	26	24	213	359	50	409	186	15	5	206	26
DOWNBOUND STATISTICS	170	31	16	217	4	397	401	186	15	5	206	1011
TOTALS	333	57	40	430	363	447	810	372	30	10	412	1038
LOWER MONUMENTAL LOCK & DAM	xxx											
UPBOUND STATISTICS	114	5	3	122	323	49	372	118	2	0	120	27
DOWNBOUND STATISTICS	116	11	2	129	4	362	366	121	6	0	127	910
TOTALS	230	16	5	251	327	411	738	239	8	0	247	937
LITTLE GOOSE LOCK & DAM	xxx											
UPBOUND STATISTICS	113	14	2	129	309	48	357	117	5	1	123	26
DOWNBOUND STATISTICS	117	20	0	137	5	353	358	121	9	0	130	872
TOTALS	230	34	2	266	314	401	715	238	14	1	253	899
LOWER GRANITE LOCK & DAM	xxx											
UPBOUND STATISTICS	104	11	4	119	208	47	255	111	10	4	125	27
DOWNBOUND STATISTICS	107	13	0	120	8	245	253	111	8	4	123	557
TOTALS	211	24	4	239	216	292	508	222	18	8	248	584

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC 64	DISTRICT NAME WALLA WALLA			DIVISION NAME NORTH PACIFIC							MONTHS REPORTED											
											10/84				11/84				12/84			
											ALL TIMES EXPRESSED IN MINUTES											
APPROACH			LOCK PROCESSING TIME							EXIT		:	DELATED	DELAY	DELAY	DELAY						
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	TONS	TIME	AVG	MAX			
												:		(TONS)	(TONS)	(ALL VSSLS)						
COLUMBIA RIVER																						
MCNARY LOCK & DAM			2	4	21	:	2	6	28	:	9	15	40	:	2	6	19	:	349	1903	5.5	45
SNAKE RIVER																						
ICE HARBOR LOCK & DAM			1	3	14	:	1	4	20	:	10	21	53	:	1	3	12	:	333	2489	7.5	627
LOWER MONUMENTAL LOCK & DAM			2	4	20	:	1	6	20	:	17	26	44	:	1	4	14	:	230	1474	6.4	65
LITTLE GOOSE LOCK & DAM			2	3	20	:	2	4	28	:	10	15	34	:	2	5	17	:	230	1065	4.6	85
LOWER GRANITE LOCK & DAM			1	4	14	:	2	5	13	:	9	11	42	:	2	4	12	:	211	921	4.4	31

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H1	HUNTINGTON	OHIO RIVER	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
KANAWHA RIVER	1-WINFIELD LOCKS & DAM MAIN 1	0360/0056/12.0
	1-WINFIELD LOCKS & DAM MAIN 2	0360/0056/12.0
	2-MARNET LOCKS & DAM MAIN 1	0360/0056/12.0
	2-MARNET LOCKS & DAM MAIN 2	0360/0056/12.0
	3-LONDON LOCKS & DAM MAIN 1	0360/0056/12.0
	3-LONDON LOCKS & DAM MAIN 2	0360/0056/12.0
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-CALLIPOLIS LOCKS & DAM	0600/0110/12.0
	23-CALLIPOLIS 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

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON			DIVISION NAME OHIO RIVER				MONTHS REPORTED					
								10/84	11/84			12/84	
RIVER/LOCK NAME	TONS	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)
KANAWHA RIVER													
WINFIELD LOCKS & DAM MAIN 1	xxx												
UPBOUND STATISTICS	330	7	21	358	1228	821	2049	1250	10	10	1270	1280	
DOWNBOUND STATISTICS	333	15	31	379	706	1396	2102	1246	14	14	1274	1528	
TOTALS	663	22	52	737	1934	2217	4151	2496	24	24	2544	2808	
WINFIELD LOCKS & DAM MAIN 2	xxx												
UPBOUND STATISTICS	39	2	1	42	229	36	265	136	6	0	142	48	
DOWNBOUND STATISTICS	32	0	4	36	61	107	168	108	0	3	111	110	
TOTALS	71	2	5	78	290	143	433	244	6	3	253	158	
MARNET LOCKS & DAM MAIN 1	xxx												
UPBOUND STATISTICS	125	6	11	142	555	100	655	428	9	6	443	140	
DOWNBOUND STATISTICS	135	4	11	150	38	659	697	455	9	9	473	760	
TOTALS	260	10	22	292	593	759	1352	883	18	15	916	900	
MARNET LOCKS & DAM MAIN 2	xxx												
UPBOUND STATISTICS	124	6	26	156	394	74	468	335	11	2	348	67	
DOWNBOUND STATISTICS	102	11	34	147	94	262	356	261	15	1	277	285	
TOTALS	226	17	60	303	488	336	824	596	26	3	625	352	
LONDON LOCKS & DAM MAIN 1	xxx												
UPBOUND STATISTICS	61	0	9	70	184	9	193	188	0	5	193	12	
DOWNBOUND STATISTICS	55	0	12	67	5	159	164	170	0	2	172	233	
TOTALS	116	0	21	137	189	168	357	358	0	7	365	245	
LONDON LOCKS & DAM MAIN 2	xxx												
UPBOUND STATISTICS	27	4	5	36	58	0	58	60	7	1	68	0	
DOWNBOUND STATISTICS	27	4	5	36	1	59	60	57	6	1	64	80	
TOTALS	54	8	10	72	59	59	118	117	13	2	132	80	
OHIO RIVER													
BELLEVILLE LOCKS & DAM	xxx												
UPBOUND STATISTICS	354	1	6	361	907	2800	3707	354	0	1	355	4087	
DOWNBOUND STATISTICS	331	2	3	336	1891	1885	3776	331	0	0	331	2925	
TOTALS	685	3	9	697	2798	4685	7483	685	0	1	686	7012	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME												
TONS												
VESSL												
RECRTN												
OTHER												
VESSL												
TOTAL												
BARGS												
EMPTY												
FULL												
BARGES												
TOTAL												
LOCKGS												
CONWR												
LCKGES												
RECRTN												
OTHER												
TOTAL												
TONNAGE (KTONS)												
(NAV, OPN, ETC)												
OHIO RIVER												
BELLEVILLE LOCKS & DAM AUX 1												
NR												
UPBOUND STATISTICS												
39												
30												
3												
72												
54												
84												
138												
44												
12												
6												
62												
89												
DOWNBOUND STATISTICS												
48												
34												
7												
89												
116												
56												
172												
57												
14												
4												
75												
44												
TOTALS												
87												
64												
10												
161												
170												
140												
310												
101												
26												
10												
137												
134												
RACINE LOCKS & DAM												
NR												
UPBOUND STATISTICS												
382												
0												
4												
386												
1126												
2840												
3966												
384												
0												
0												
384												
4157												
DOWNBOUND STATISTICS												
370												
1												
4												
375												
1917												
2204												
4121												
371												
0												
0												
371												
3198												
TOTALS												
752												
1												
8												
761												
3043												
5044												
8087												
755												
0												
0												
755												
7355												
RACINE LOCKS & DAM AUX 1												
NR												
UPBOUND STATISTICS												
57												
22												
9												
88												
164												
64												
228												
68												
4												
5												
77												
83												
DOWNBOUND STATISTICS												
57												
27												
12												
96												
88												
122												
210												
73												
9												
3												
85												
108												
TOTALS												
114												
49												
21												
184												
252												
186												
438												
141												
13												
8												
162												
192												
CALLIPOLIS LOCKS & DAM												
NR												
UPBOUND STATISTICS												
409												
0												
8												
417												
890												
2817												
3707												
672												
0												
3												
675												
4430												
DOWNBOUND STATISTICS												
399												
8												
4												
411												
1953												
1962												
3915												
676												
0												
1												
677												
2864												
TOTALS												
808												
8												
12												
828												
2843												
4779												
7622												
1348												
0												
4												
1352												
7295												
CALLIPOLIS LOCKS & DAM AUX 1												
NR												
UPBOUND STATISTICS												
31												
18												
24												
73												
39												
42												
81												
56												
15												
3												
74												
64												
DOWNBOUND STATISTICS												
36												
34												
35												
105												
42												
34												
76												
69												
25												
7												
101												
32												
TOTALS												
67												
52												
59												
178												
81												
76												
157												
125												
40												
10												
175												
97												
GREENUP LOCKS & DAM												
NR												
UPBOUND STATISTICS												
523												
5												
20												
548												
3084												
1787												
4871												
533												
3												
2												
538												
2840												
DOWNBOUND STATISTICS												
542												
2												
20												
564												
924												
4268												
5192												
551												
0												
1												
552												
6492												
TOTALS												
1065												
7												
40												
1112												
4008												
6055												
10063												
1084												
3												
3												
1090												
9332												
GREENUP LOCKS & DAM AUX 1												
NR												
UPBOUND STATISTICS												
70												
197												
58												
325												
102												
63												
165												
125												
92												
1												
218												
78												
DOWNBOUND STATISTICS												
52												
144												
62												
258												
58												
50												
108												
115												
73												
2												
190												
73												
TOTALS												
122												
341												
120												
583												
160												
113												
273												
240												
165												
3												
408												
151												

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARCS EMPTY	BARCS FULL	BARCS TOTAL	LOCKGS CONNR	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
OHIO RIVER												
CAPT ANT MELDAHL LOCKS & DAM	XXX											
UPBOUND STATISTICS	483	3	5	491	2854	2121	4975	483	3	0	486	3367
DOWNBOUND STATISTICS	482	2	8	492	984	4290	5274	485	1	0	486	6547
TOTALS	965	5	13	983	3838	6411	10249	968	4	0	972	9915
CAPT ANT MELDAHL LK&DAM AUX 1	XXX											
UPBOUND STATISTICS	38	60	8	106	43	65	108	45	48	1	94	93
DOWNBOUND STATISTICS	44	81	9	134	91	31	122	55	65	1	121	39
TOTALS	82	141	17	240	134	96	230	100	113	2	215	133
WILLOW ISLAND LOCKS & DAM	XXX											
UPBOUND STATISTICS	340	1	7	348	908	2581	3489	341	1	0	342	3541
DOWNBOUND STATISTICS	325	3	2	330	1721	1836	3557	325	1	0	326	2799
TOTALS	665	4	9	678	2629	4417	7046	666	2	0	668	6340
WILLOW ISLAND LOCKS & DAM AUX	XXX											
UPBOUND STATISTICS	72	29	18	119	55	190	245	92	11	3	106	149
DOWNBOUND STATISTICS	81	21	14	116	178	86	264	100	10	5	115	84
TOTALS	153	50	32	235	233	276	509	192	21	8	221	233

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED																	
			10/84												11/84				12/84	
			ALL TIMES EXPRESSED IN MINUTES																	
			APPROACH			LOCK PROCESSING TIME						EXIT		: DELAYED		DELAY	DELAY	DELAY	DELAY	
MTN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:	TONS	TIME	(TONS)	AVG	MAX			
																		(TONS)	(TONS)	(ALL VSSLS)
KANAWHA RIVER																				
WINFIELD LOCKS & DAM MAIN 1	1	7	92	1	5	36	5	10	38	1	11	350	:	595	517896	781.1	3900			
WINFIELD LOCKS & DAM MAIN 2	1	10	55	1	4	21	5	9	25	2	10	39	:	32	9888	139.3	1945			
MARRET LOCKS & DAM MAIN 1	1	11	71	1	5	23	5	8	19	2	9	41	:	16	783	3.0	105			
MARRET LOCKS & DAM MAIN 2	1	9	63	1	4	18	5	8	22	2	8	38	:	13	816	3.6	170			
LONDON LOCKS & DAM MAIN 1	1	9	54	1	5	63	6	8	18	2	8	27	:	49	11491	99.1	645			
LONDON LOCKS & DAM MAIN 2	1	7	45	1	3	12	6	8	19	2	6	20	:	11	1992	36.9	461			
OHIO RIVER																				
BELLEVILLE LOCKS & DAM	1	17	50	2	9	30	8	13	38	2	8	27	:	189	7382	10.8	235			
BELLEVILLE LOCKS & DAM AUX 1	2	15	46	1	4	23	10	13	35	1	5	23	:	4	74	.9	25			
RACINE LOCKS & DAM	1	14	175	1	11	35	8	10	26	1	10	28	:	220	10543	14.0	258			
RACINE LOCKS & DAM AUX 1	2	12	33	1	6	16	7	10	25	2	7	20	:	4	128	1.1	61			
CALLIPOLIS LOCKS & DAM	1	10	65	1	12	50	5	11	23	2	18	55	:	512	71447	88.4	765			
CALLIPOLIS LOCKS & DAM AUX 1	1	7	27	1	5	30	5	11	24	2	6	36	:	5	226	3.4	75			
GREENUP LOCKS & DAM	1	14	60	3	9	20	5	11	31	1	9	26	:	432	17970	16.9	200			
GREENUP LOCKS & DAM AUX 1	1	9	40	1	4	13	6	10	22	1	5	17	:	13	267	2.2	50			
CAPT ANT MELDAHL LOCKS & DAM	1	19	58	1	10	28	7	13	26	1	12	30	:	407	22257	23.1	235			

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

PAGE A 42

ERDC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED		
			10/84	11/84	12/84
RIVER	LCODE-LOCK NAME		LEN/MID/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		
	75-CANNELTON LOCK & DAM		1200/0110/12.0		
	75-CANNELTON LOCK & DAM AUX		0600/0110/12.0		
	76-NEWBURN LOCK & DAM		1200/0110/12.0		
	76-NEWBURN 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		
	52-LOCK & DAM 52		1200/0110/12.0		
	52-LOCK & DAM 52 AUX 1		0600/0110/12.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/84			11/84			12/84			
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
GREEN/BARREN RIVER												
LOCK & DAM 1	XXX											
UPBOUND STATISTICS	353	3	18	374	1112	192	1304	335	2	38	375	286
DOWNBOUND STATISTICS	355	6	11	372	127	1163	1290	324	4	45	373	1745
TOTALS	708	9	29	746	1239	1355	2594	659	6	83	748	2031
LOCK & DAM 2	XXX											
UPBOUND STATISTICS	230	11	10	251	857	28	885	207	8	34	249	39
DOWNBOUND STATISTICS	234	11	9	254	22	865	887	207	8	38	253	1289
TOTALS	464	22	19	505	879	893	1772	414	16	72	502	1328
LOCK & DAM 3	NO DATA RECORDED FOR THIS LOCK											
OHIO RIVER												
MARKLAND LOCKS & DAM	XXX											
UPBOUND STATISTICS	519	4	3	526	2583	2367	4950	521	2	5	528	3802
DOWNBOUND STATISTICS	526	11	3	540	811	4420	5231	529	7	5	541	6626
TOTALS	1045	15	6	1066	3394	6787	10181	1050	9	10	1069	10428
MARKLAND LOCKS & DAM AUX 1	XXX											
UPBOUND STATISTICS	28	145	6	179	35	28	63	33	72	0	105	41
DOWNBOUND STATISTICS	31	134	11	176	42	19	61	39	75	4	118	25
TOTALS	59	279	17	355	77	47	124	72	147	4	223	67
MCALPINE LOCKS & DAM	XXX											
UPBOUND STATISTICS	598	37	76	711	2282	2919	5201	653	13	1	667	4587
DOWNBOUND STATISTICS	621	50	65	736	971	4478	5449	655	21	1	677	6778
TOTALS	1219	87	141	1447	3253	7397	10650	1308	34	2	1344	11365
MCALPINE LOCKS & DAM AUX 1	NO DATA RECORDED FOR THIS LOCK											

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME												
	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONMER	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
OHIO RIVER												
CANNELTON LOCK & DAM	xxx											
UPBOUND STATISTICS	554	4	11	569	2300	3197	5497	556	2	1	559	5052
DOWNBOUND STATISTICS	553	4	16	573	945	4834	5779	562	1	0	563	6977
TOTALS	1107	8	27	1142	3245	8031	11276	1118	3	1	1122	12030
CANNELTON LOCK & DAM AUX	xxx											
UPBOUND STATISTICS	31	26	5	62	66	33	99	36	12	0	48	48
DOWNBOUND STATISTICS	36	48	6	90	34	73	107	43	22	2	67	98
TOTALS	67	74	11	152	100	106	206	79	34	2	115	146
NEWBURGH LOCK & DAM	xxx											
UPBOUND STATISTICS	670	20	28	718	3310	3335	6645	676	6	2	684	5309
DOWNBOUND STATISTICS	677	8	46	731	1378	5619	6997	692	2	0	694	7993
TOTALS	1347	28	74	1449	4688	8954	13642	1368	8	2	1378	13302
NEWBURGH LOCK & DAM AUX 1	xxx											
UPBOUND STATISTICS	109	206	58	373	153	158	311	140	84	3	227	230
DOWNBOUND STATISTICS	98	254	62	414	174	59	233	134	112	5	251	74
TOTALS	207	460	120	787	327	217	544	274	196	8	478	305
UNIONTOWN LOCK & DAM	xxx											
UPBOUND STATISTICS	736	3	11	750	4932	3156	8088	740	2	1	743	5045
DOWNBOUND STATISTICS	739	2	4	745	1021	7241	8262	741	1	0	742	10926
TOTALS	1475	5	15	1495	5953	10397	16350	1481	3	1	1485	15971
UNIONTOWN LOCK & DAM AUX 1	xxx											
UPBOUND STATISTICS	45	145	28	218	82	50	132	63	122	2	187	86
DOWNBOUND STATISTICS	43	176	25	244	88	27	115	62	149	5	216	48
TOTALS	88	321	53	462	170	77	247	125	271	7	403	135
SKITHLAND LOCK & DAM	xxx											
UPBOUND STATISTICS	146	7	9	162	916	408	1324	155	3	0	158	672
DOWNBOUND STATISTICS	754	22	34	810	917	7183	8100	776	16	2	794	11014
TOTALS	900	29	43	972	1833	7591	9424	931	19	2	952	11686

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			10/84		11/84		12/84							
RIVER/LOCK NAME			TONS	VESSL RECRTH	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTH	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
OHIO RIVER														
SMITHLAND LOCK & DAM AUX 1			XXX											
UPBOUND STATISTICS			747	12	26	785	5201	2624	7825	764	10	2	776	4208
DOWNBOUND STATISTICS			123	13	10	146	238	919	1157	133	10	3	146	1423
TOTALS			870	25	36	931	5439	3543	8982	897	20	5	922	5631
LOCK & DAM 52			XXX											
UPBOUND STATISTICS			991	0	121	1112	5684	4427	10111	166	0	872	1038	6936
DOWNBOUND STATISTICS			1000	1	121	1122	2133	8127	10260	173	0	914	1087	11969
TOTALS			1991	1	242	2234	7817	12554	20371	339	0	1786	2125	18905
LOCK & DAM 52 AUX 1			XXX	ONLY FIRST MONTH REPORTED										
UPBOUND STATISTICS			79	6	30	115	122	159	281	106	5	2	113	275
DOWNBOUND STATISTICS			89	15	20	124	109	217	326	109	12	2	123	346
TOTALS			168	21	50	239	231	376	607	215	17	4	236	622

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED														
			10/84					11/84					12/84				
			ALL TIMES EXPRESSED IN MINUTES														
APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT			DELA	DELA	DELA	DELA		
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	TONS	TIME (TONS)	AVG (TONS)	MAX (ALL VSSLS)		
GREEN/BARREN RIVER																	
LOCK & DAM 1	1	5	20	1	3	15	1	7	58	1	4	25	88	1758	2.5	70	
LOCK & DAM 2	1	5	35	1	3	12	1	10	45	1	4	32	43	965	2.1	45	
LOCK & DAM 3	NO DATA RECORDED FOR THIS LOCK																
OHIO RIVER																	
MARKLAND LOCKS & DAM	1	21	60	1	8	30	5	13	27	1	9	28	528	38501	36.8	627	
MARKLAND LOCKS & DAM AUX 1	1	10	60	1	3	13	5	12	41	1	5	15	2	43	.7	29	
MCALPINE LOCKS & DAM	1	18	84	1	9	53	5	11	40	1	8	50	645	38530	31.6	497	
MCALPINE LOCKS & DAM AUX 1	NO DATA RECORDED FOR THIS LOCK																
CANNELTON LOCK & DAM	1	23	60	1	8	30	5	10	25	1	8	35	596	43912	39.7	700	
CANNELTON LOCK & DAM AUX	1	19	60	1	4	30	5	10	25	1	4	20	8	196	2.9	61	
NEMBURGH LOCK & DAM	1	16	60	1	9	30	5	7	25	1	11	42	658	27868	20.7	232	
NEMBURGH LOCK & DAM AUX 1	1	10	45	1	4	21	5	7	10	1	5	26	27	464	2.2	55	
UNIONTOWN LOCK & DAM	1	19	60	1	7	30	5	9	30	1	8	37	826	50236	34.1	317	
UNIONTOWN LOCK & DAM AUX 1	1	7	50	1	2	25	5	9	16	1	2	24	4	67	.8	40	
SKITHLAND LOCK & DAM	1	16	60	1	9	30	5	9	37	2	8	55	169	5091	5.7	490	
SKITHLAND LOCK & DAM AUX 1	1	13	60	1	9	25	5	9	15	1	7	40	123	2230	2.6	120	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H3	NASHVILLE	OHIO RIVER	10/84	11/84	12/84
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
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		
TENNESSEE RIVER	1-KENTUCKY LOCK		0600/0110/11.0		
	2-PICKWICK LANDING LOCK		1000/0110/11.0		
	2-PICKWICK LANDING LOCK AUX		0600/0110/11.0		
	3-WILSON LOCK		0600/0110/11.0		
	3-WILSON LOCK AUX		0292/0060/11.0		
	4-GEN JOS WHEELER LOCK		0600/0110/11.0		
	4-GEN JOS WHEELER LK	AUX1	0400/0060/11.0		
	5-CUNTERSVILLE LOCK		0600/0110/11.0		
	5-CUNTERSVILLE LOCK	AUX 1	0360/0060/11.0		
	6-NICKAJAC LOCK		0600/0119/11.0		
	7-CHICKAMAUGA LOCK		0360/0060/11.0		
	8-WATTS BAR LOCK		0360/0060/11.0		
	9-FORT LOUDON LOCK		0360/0060/11.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/84			11/84			12/84				
RIVER/LOCK NAME		TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
CLINCH RIVER													
MELTON HILL LOCK		XXX											
UPBOUND STATISTICS		0	6	0	6	0	0	0	0	6	2	8	0
DOWNBOUND STATISTICS		0	6	0	6	0	0	0	0	6	2	8	0
TOTALS		0	12	0	12	0	0	0	0	12	4	16	0
CUMBERLAND RIVER													
BARKLEY LOCK		XXX											
UPBOUND STATISTICS		64	21	2	87	39	362	401	66	16	1	83	526
DOWNBOUND STATISTICS		111	26	3	140	926	53	979	144	26	1	171	73
TOTALS		175	47	5	227	965	415	1380	210	42	2	254	600
CHEATHAM LOCK		XXX											
UPBOUND STATISTICS		93	19	1	113	22	520	542	99	17	2	118	769
DOWNBOUND STATISTICS		89	25	6	120	511	36	547	100	18	1	119	53
TOTALS		182	44	7	233	533	556	1089	199	35	3	237	822
CORDELL HULL LOCK		XXX											
UPBOUND STATISTICS		9	8	4	21	18	1	19	15	6	0	21	1
DOWNBOUND STATISTICS		10	8	3	21	1	18	19	13	7	0	20	26
TOTALS		19	16	7	42	19	19	38	28	13	0	41	27
OLD HICKORY LOCK		XXX											
UPBOUND STATISTICS		32	79	10	121	8	47	55	45	70	8	123	85
DOWNBOUND STATISTICS		28	89	14	131	42	6	48	46	66	7	119	10
TOTALS		60	168	24	252	50	53	103	91	136	15	242	95
TENNESSEE RIVER													
KENTUCKY LOCK		XXX											
UPBOUND STATISTICS		435	28	32	495	1063	3234	4297	716	33	9	758	4749
DOWNBOUND STATISTICS		381	26	47	454	2480	1265	3745	643	15	7	665	1804
TOTALS		816	54	79	949	3543	4499	8042	1359	48	16	1423	6553

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/84			11/84			12/84				
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
TENNESSEE RIVER													
PICKNICK LANDING LOCK		XXX											
UPBOUND STATISTICS		177	25	13	215	168	1671	1839	231	24	11	266	2405
DOWNBOUND STATISTICS		159	13	15	187	1304	344	1648	208	11	15	234	433
TOTALS		336	38	28	402	1472	2015	3487	439	35	26	500	2839
PICKNICK LANDING LOCK AUX		XXX											
UPBOUND STATISTICS		83	17	2	102	50	747	797	133	17	12	162	1069
DOWNBOUND STATISTICS		95	18	11	124	754	162	916	159	19	7	185	229
TOTALS		178	35	13	226	804	909	1713	292	36	19	347	1298
WILSON LOCK		XXX											
UPBOUND STATISTICS		115	104	54	273	247	790	1037	199	63	10	272	1136
DOWNBOUND STATISTICS		127	105	48	280	560	437	997	212	39	13	264	598
TOTALS		242	209	102	553	807	1227	2034	411	102	23	536	1734
WILSON LOCK AUX		NO DATA RECORDED FOR THIS LOCK											
GEN JOS WHEELER LOCK		XXX											
UPBOUND STATISTICS		111	22	3	136	258	782	1040	174	23	6	203	1122
DOWNBOUND STATISTICS		105	22	7	134	541	406	947	165	18	6	189	541
TOTALS		216	44	10	270	799	1188	1987	339	41	12	392	1664
GEN JOS WHEELER LK		AUX1	XXX										
UPBOUND STATISTICS		1	71	1	73	1	0	1	3	51	2	56	1
DOWNBOUND STATISTICS		0	80	2	82	0	0	0	3	54	2	59	0
TOTALS		1	151	3	155	1	0	1	6	105	4	115	2
GUNTERSVILLE LOCK		XXX											
UPBOUND STATISTICS		121	54	2	177	334	634	968	174	47	2	223	904
DOWNBOUND STATISTICS		119	51	7	177	457	456	913	163	37	5	205	599
TOTALS		240	105	9	354	791	1090	1881	337	84	7	428	1503
GUNTERSVILLE LOCK		AUX 1	XXX										
UPBOUND STATISTICS		0	88	0	88	0	0	0	2	67	0	69	0
DOWNBOUND STATISTICS		0	79	2	81	0	0	0	2	66	0	68	0
TOTALS		0	167	2	169	0	0	0	4	133	0	137	0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME												
TONS												
VESSL												
RECRTN												
OTHER												
VESSL												
TOTAL												
BARGS												
EMPTY												
FULL												
BARGES												
TOTAL												
LOCKGS												
COMMER												
LCKGES												
RECRTN												
OTHER												
LCKGES												
TOTAL												
TONNAGE												
(KTONS)												
(NAV, OPN, ETC)												
TENNESSEE RIVER												
NICKAJAC LOCK												
XXX												
UPBOUND STATISTICS												
147 102 5 254 422 653 1075 187 71 3 261 863												
DOWNBOUND STATISTICS												
147 105 8 260 544 510 1054 188 66 2 256 688												
TOTALS												
294 207 13 514 966 1163 2129 375 137 5 517 1552												
CHICKAMAUGA LOCK												
XXX												
UPBOUND STATISTICS												
62 387 4 453 61 226 287 133 300 10 443 314												
DOWNBOUND STATISTICS												
58 398 11 467 185 113 298 143 296 13 452 153												
TOTALS												
120 785 15 920 246 339 585 276 596 23 895 467												
WATTS BAR LOCK												
XXX												
UPBOUND STATISTICS												
40 88 1 129 58 92 150 86 129 4 219 145												
DOWNBOUND STATISTICS												
36 92 5 133 54 96 150 89 126 2 217 131												
TOTALS												
76 180 6 262 112 188 300 175 255 6 436 276												
FORT LOUDON LOCK												
XXX												
UPBOUND STATISTICS												
29 74 6 109 16 54 70 52 80 4 136 92												
DOWNBOUND STATISTICS												
28 73 9 110 36 32 68 51 82 4 137 41												
TOTALS												
57 147 15 219 52 86 138 103 162 8 273 133												

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED															
			10/84					11/84					12/84					
			ALL TIMES EXPRESSED IN MINUTES															
APPROACH			LOCK PROCESSING TIME						EXIT			: DELAYED		DELAY	DELAY	DELAY		
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	TONS	TIME (TONS)	AVG (TONS)	MAX (ALL VSSLS)
CLINCH RIVER																		
MELTON HILL LOCK	2	8	20	2	2	3	7	14	20	1	2	6	:	0	0	.0	0	
CUMBERLAND RIVER																		
BARKLEY LOCK	1	14	110	1	10	75	9	15	28	1	9	35	:	13	568	3.2	98	
CHEATHAM LOCK	1	9	31	1	10	37	9	17	63	1	9	54	:	29	8433	46.3	920	
CORDELL HULL LOCK	2	4	13	1	4	16	6	16	30	1	5	17	:	0	0	.0	0	
OLD HICKORY LOCK	1	3	26	1	4	22	12	16	31	2	4	21	:	3	166	2.8	102	
TENNESSEE RIVER																		
KENTUCKY LOCK	1	9	99	1	13	111	6	18	57	1	18	73	:	643	167151	204.8	996	
PICKNICK LANDING LOCK	1	12	90	2	14	71	9	24	61	2	18	102	:	133	16578	49.3	761	
PICKNICK LANDING LOCK AUX	1	10	139	3	11	69	9	17	47	1	17	81	:	86	12045	67.7	546	
WILSON LOCK	1	10	72	2	13	75	8	22	45	1	14	52	:	74	10971	45.3	726	
WILSON LOCK AUX	NO DATA RECORDED FOR THIS LOCK																	
GEN JOS WHEELER LOCK	1	13	103	2	13	42	9	14	59	3	18	72	:	44	3474	16.1	314	
GEN JOS WHEELER LK	AUX	1	8	19	2	4	11	6	12	22	1	4	11	:	0	0	.0	126
GUNTERSVILLE LOCK	1	11	53	1	12	38	10	15	65	1	15	57	:	46	3828	16.0	308	
GUNTERSVILLE LOCK	AUX	1	5	24	1	3	14	9	14	23	1	3	7	:	0	0	.0	33
NICKAJAC LOCK	1	9	46	2	10	32	6	14	23	1	12	60	:	67	3362	11.4	159	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H3	NASHVILLE	OHIO RIVER	10/84	11/84	12/84

ALL TIMES EXPRESSED IN MINUTES

APPROACH			LOCK PROCESSING TIME			EXIT			: DELAYED DELAY		DELAY	DELAY		
			ENTRY			CHAMBER			: TONS		TIME	AUG	MAX	
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	(TONS)	(TONS)	(ALL VSSLS)

TENNESSEE RIVER

CHICKAMAUGA LOCK	1	4	55	1	5	38	6	11	25	1	6	55 :	35	4910	40.9	551
WATTS BAR LOCK	1	6	48	1	5	50	6	16	137	1	8	121 :	10	1726	22.7	468
FORT LOUDON LOCK	1	10	65	1	4	26	9	20	36	1	8	54 :	4	192	3.4	345

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED			
			10/84	11/84	12/84	
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)				
ALLEGHENY RIVER	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				
	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-MAXWELL LOCK & DAM		0720/0084/13.0				
25-MAXWELL 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				
30-HILDEBRAND LOCK & DAM		0600/0084/13.0				
31-OPEKISKA LOCK & DAM		0600/0084/13.0				
OHIO RIVER		1-ENBORTH LOCK & DAM	0600/0110/13.0			
		1-ENBORTH LOCK & DAM AUX 1	0360/0056/13.0			
	2-DASHIELDS LOCK & DAM	0600/0110/13.0				
	2-DASHIELDS LOCK & DAM AUX 1	0360/0056/13.0				
	3-MONTGOMERY LOCK & DAM	0600/0110/13.0				
	3-MONTGOMERY LOCK & DAM AUX 1	0360/0056/13.0				
	4-NEW CUMBERLAND LOCK & DAM	1200/0110/13.0				
	4-NEW CUMBERLAND LK & DAM AUX 1	0600/0110/13.0				
	5-PIKE ISLAND LOCK & DAM	1200/0110/13.0				
	5-PIKE ISLAND LOCK & DAM AUX 1	0600/0110/13.0				
	71-HANNIBAL LOCKS & DAM	1200/0110/13.0				
	71-HANNIBAL LOCKS & DAM AUX 1	0600/0110/13.0				

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER					MONTHS REPORTED						
							10/84		11/84		12/84		
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)											
ALLEGHENY RIVER													
LOCK & DAM 2		XXX											
UPBOUND STATISTICS		253	213	20	486	514	337	851	378	179	5	562	364
DOWNBOUND STATISTICS		256	213	21	490	346	485	831	381	176	3	560	264
TOTALS		509	426	41	976	860	822	1682	759	355	8	1122	628
LOCK & DAM 3		XXX											
UPBOUND STATISTICS		266	80	23	369	526	359	885	413	85	2	500	387
DOWNBOUND STATISTICS		270	89	19	378	372	483	855	407	90	2	499	259
TOTALS		536	169	42	747	898	842	1740	820	175	4	999	646
LOCK & DAM 4		XXX											
UPBOUND STATISTICS		243	94	23	360	828	87	915	346	67	3	416	112
DOWNBOUND STATISTICS		247	99	20	366	95	818	913	353	70	3	426	402
TOTALS		490	193	43	726	923	905	1828	699	137	6	842	514
LOCK & DAM 5		XXX											
UPBOUND STATISTICS		170	69	4	243	766	2	768	206	52	4	262	1
DOWNBOUND STATISTICS		171	72	3	246	2	764	766	210	46	4	260	324
TOTALS		341	141	7	489	768	766	1534	416	98	8	522	326
LOCK & DAM 6		XXX											
UPBOUND STATISTICS		168	41	3	212	729	2	731	203	38	3	244	1
DOWNBOUND STATISTICS		171	35	2	208	6	732	738	209	34	3	246	311
TOTALS		339	76	5	420	735	734	1469	412	72	6	490	312
LOCK & DAM 7		XXX											
UPBOUND STATISTICS		45	40	10	95	83	1	84	53	26	1	80	1
DOWNBOUND STATISTICS		43	32	11	86	1	84	85	53	20	1	74	36
TOTALS		88	72	21	181	84	85	169	106	46	2	154	37
LOCK & DAM 8		XXX											
UPBOUND STATISTICS		95	36	13	144	95	0	95	110	23	0	133	0
DOWNBOUND STATISTICS		97	36	11	144	1	96	97	110	25	0	135	186
TOTALS		192	72	24	288	96	96	192	220	48	0	268	186

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/84			11/84			12/84				
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)													
ALLEGHENY RIVER													
LOCK & DAM 9		XXX	ONLY FIRST MONTH REPORTED										
UPBOUND STATISTICS		0	19	0	19	0	0	0	5	13	0	18	0
DOWNBOUND STATISTICS		0	21	0	21	0	0	0	5	13	0	18	0
TOTALS		0	40	0	40	0	0	0	10	26	0	36	0
MONONGAHELA RIVER													
LOCK & DAM 2		XXX											
UPBOUND STATISTICS		333	0	15	348	1065	923	1988	377	0	0	377	1141
DOWNBOUND STATISTICS		349	0	13	362	699	1341	2040	383	0	1	384	1436
TOTALS		682	0	28	710	1764	2264	4028	760	0	1	761	2578
LOCK & DAM 2 AUX 1		XXX											
UPBOUND STATISTICS		125	29	61	215	74	121	195	183	25	4	212	86
DOWNBOUND STATISTICS		111	33	70	214	136	31	167	178	27	3	208	33
TOTALS		236	62	131	429	210	152	362	361	52	7	420	119
LOCK & DAM 3		XXX											
UPBOUND STATISTICS		508	0	3	511	2112	448	2560	509	0	0	509	545
DOWNBOUND STATISTICS		523	0	3	526	310	2272	2582	524	0	0	524	2278
TOTALS		1031	0	6	1037	2422	2720	5142	1033	0	0	1033	2823
LOCK & DAM 3 AUXILIARY 1		XXX											
UPBOUND STATISTICS		104	21	72	197	101	41	142	175	18	3	196	46
DOWNBOUND STATISTICS		79	24	80	183	60	41	101	159	21	3	183	46
TOTALS		183	45	152	380	161	82	243	334	39	6	379	92
LOCK & DAM 4		XXX											
UPBOUND STATISTICS		460	0	5	465	2217	343	2560	474	0	2	476	361
DOWNBOUND STATISTICS		478	0	3	481	224	2334	2558	489	0	1	490	2332
TOTALS		938	0	8	946	2441	2677	5118	963	0	3	966	2694

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER					MONTHS REPORTED						
							10/84		11/84		12/84		
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
MONONGAHELA RIVER													
LOCK & DAM 4 AUXILIARY 1		XXX											
UPBOUND STATISTICS		43	27	33	103	62	7	69	76	20	2	98	6
DOWNBOUND STATISTICS		38	29	31	98	35	25	60	66	27	3	96	25
TOTALS		81	56	64	201	97	32	129	142	47	5	194	31
MAXWELL LOCK & DAM		XXX											
UPBOUND STATISTICS		359	46	8	413	1891	230	2121	368	29	4	401	264
DOWNBOUND STATISTICS		66	23	7	96	37	313	350	73	13	3	89	314
TOTALS		425	69	15	509	1928	543	2471	441	42	7	490	578
MAXWELL LOCK & DAM AUX 1		XXX											
UPBOUND STATISTICS		45	24	0	69	210	38	248	46	8	0	54	40
DOWNBOUND STATISTICS		336	27	3	366	130	1912	2042	339	18	0	357	1896
TOTALS		381	51	3	435	340	1950	2290	385	26	0	411	1936
LOCK & DAM 7		XXX											
UPBOUND STATISTICS		402	7	21	430	1610	256	1866	754	10	7	771	294
DOWNBOUND STATISTICS		414	10	12	436	208	1683	1891	769	14	5	788	1615
TOTALS		816	17	33	866	1818	1939	3757	1523	24	12	1559	1910
LOCK & DAM 8		XXX											
UPBOUND STATISTICS		365	7	9	381	1341	274	1615	652	10	5	667	308
DOWNBOUND STATISTICS		369	10	16	395	233	1433	1666	680	15	5	700	1377
TOTALS		734	17	25	776	1574	1707	3281	1332	25	10	1367	1685
MORGANTOWN LOCK & DAM		XXX											
UPBOUND STATISTICS		48	14	8	70	210	1	211	58	11	1	70	1
DOWNBOUND STATISTICS		49	29	8	86	6	214	220	59	15	1	75	199
TOTALS		97	43	16	156	216	215	431	117	26	2	145	200
HILDEBRAND LOCK & DAM		XXX											
UPBOUND STATISTICS		13	20	7	40	45	1	46	19	18	0	37	1
DOWNBOUND STATISTICS		16	35	3	54	4	45	49	20	23	0	43	48
TOTALS		29	55	10	94	49	46	95	39	41	0	80	50

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME												
TOMS	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												
OPEKISKA LOCK & DAM	XXX											
UPBOUND STATISTICS	1	40	6	47	1	0	1	8	24	1	33	0
DOWNBOUND STATISTICS	6	51	2	59	5	4	9	9	33	0	42	5
TOTALS	7	91	8	106	6	4	10	17	57	1	75	5
OHIO RIVER												
ENSWORTH LOCK & DAM	XXX											
UPBOUND STATISTICS	428	1	9	438	738	1725	2463	488	1	6	495	1992
DOWNBOUND STATISTICS	431	0	8	439	1426	1095	2521	480	0	3	483	1248
TOTALS	859	1	17	877	2164	2820	4984	968	1	9	978	3240
ENSWORTH LOCK & DAM AUX 1	XXX											
UPBOUND STATISTICS	134	47	77	258	81	96	177	223	31	8	262	98
DOWNBOUND STATISTICS	139	65	99	303	155	43	198	251	51	10	312	42
TOTALS	273	112	176	561	236	139	375	474	82	18	574	140
DASHIELDS LOCK & DAM	XXX											
UPBOUND STATISTICS	420	0	11	431	746	2015	2761	491	0	4	495	2282
DOWNBOUND STATISTICS	412	0	12	424	1649	1121	2770	471	0	3	474	1274
TOTALS	832	0	23	855	2395	3136	5531	962	0	7	969	3556
DASHIELDS LOCK & DAM AUX 1	XXX											
UPBOUND STATISTICS	103	55	80	238	65	54	119	180	39	3	222	64
DOWNBOUND STATISTICS	109	62	98	269	109	38	147	204	46	4	254	35
TOTALS	212	117	178	507	174	92	266	384	85	7	476	100
MONTGOMERY LOCK & DAM	XXX											
UPBOUND STATISTICS	320	3	10	333	622	1552	2174	401	1	2	404	1855
DOWNBOUND STATISTICS	333	2	16	351	1320	904	2224	417	2	2	421	1075
TOTALS	653	5	26	684	1942	2456	4398	818	3	4	825	2930

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC HA	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			10/84		11/84		12/84							
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
OHIO RIVER														
MONTGOMERY LOCK & DAM AUX 1			xxx											
UPBOUND STATISTICS			153	33	83	269	147	424	571	419	40	5	464	514
DOWNBOUND STATISTICS			137	32	87	256	342	247	589	398	40	5	443	276
TOTALS			290	65	170	525	489	671	1160	817	80	10	907	790
NEW CUMBERLAND LOCK & DAM			xxx											
UPBOUND STATISTICS			248	0	11	259	228	2162	2390	249	0	0	249	3211
DOWNBOUND STATISTICS			232	0	5	237	1666	677	2343	232	0	0	232	885
TOTALS			480	0	16	496	1894	2839	4733	481	0	0	481	4096
NEW CUMBERLAND LK & DAM AUX 1			xxx											
UPBOUND STATISTICS			132	35	44	211	163	168	331	177	25	5	207	222
DOWNBOUND STATISTICS			152	37	37	226	245	161	406	190	27	5	222	168
TOTALS			284	72	81	437	408	329	737	367	52	10	429	390
PIKE ISLAND LOCK & DAM			xxx											
UPBOUND STATISTICS			301	1	8	310	335	2867	3202	302	0	0	302	4113
DOWNBOUND STATISTICS			287	0	4	291	2273	931	3204	288	0	0	288	1253
TOTALS			588	1	12	601	2608	3798	6406	590	0	0	590	5366
PIKE ISLAND LOCK & DAM AUX 1			xxx											
UPBOUND STATISTICS			112	25	36	173	167	146	313	150	24	4	178	192
DOWNBOUND STATISTICS			136	16	24	176	201	194	395	161	14	3	178	211
TOTALS			248	41	60	349	368	340	708	311	38	7	356	403
HANNIBAL LOCKS & DAM			xxx											
UPBOUND STATISTICS			301	1	2	304	810	2443	3253	301	1	1	303	3425
DOWNBOUND STATISTICS			282	0	3	285	1610	1727	3337	282	0	1	283	2402
TOTALS			583	1	5	589	2420	4170	6590	583	1	2	586	5828
HANNIBAL LOCKS & DAM AUX 1			xxx											
UPBOUND STATISTICS			51	10	13	74	38	113	151	66	6	11	83	115
DOWNBOUND STATISTICS			62	13	13	88	90	98	188	79	11	12	102	100
TOTALS			113	23	26	162	128	211	339	145	17	23	185	216

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH			DIVISION NAME OHIO RIVER									MONTHS REPORTED							
													10/84			11/84			12/84	
ALL TIMES EXPRESSED IN MINUTES																				
APPROACH			LOCK PROCESSING TIME									: DELAYED	DELAY	DELAY	DELAY					
			ENTRY	CHAMBER			EXIT	: TONS	TIME	AVG	MAX									
MIN	AVG	MAX										: MIN	AVG	MAX	: MIN	AVG	MAX	:	(TONS)	(TONS)
ALLEGHENY RIVER																				
LOCK & DAM 2	1	5	31	1	4	21	5	7	17	1	6	28	:	123	7049	13.8	1520			
LOCK & DAM 3	1	6	50	1	4	23	6	7	10	1	6	71	:	127	4857	9.1	193			
LOCK & DAM 4	1	6	36	1	5	20	6	8	20	1	7	45	:	92	3554	7.3	150			
LOCK & DAM 5	1	4	23	1	4	14	7	8	28	1	5	51	:	30	391	1.1	42			
LOCK & DAM 6	2	4	15	2	4	5	7	8	10	2	5	15	:	38	499	1.5	59			
LOCK & DAM 7	2	4	5	2	4	5	8	8	10	2	4	5	:	2	5	.1	23			
LOCK & DAM 8	2	4	10	2	4	5	7	7	8	1	4	5	:	4	18	.1	33			
LOCK & DAM 9	2	4	6	2	2	3	8	8	10	2	2	3	:	0	0	.0	19			
MONONGAHELA RIVER																				
LOCK & DAM 2	1	11	49	1	5	34	5	11	37	2	7	39	:	152	4737	6.9	180			
LOCK & DAM 2 AUX 1	1	8	38	1	2	8	5	6	17	1	2	8	:	19	229	1.0	83			
LOCK & DAM 3	1	11	36	2	6	18	7	10	17	3	6	16	:	315	9205	8.9	175			
LOCK & DAM 3 AUXILIARY 1	1	7	25	1	2	11	5	7	14	1	3	10	:	11	147	.8	35			
LOCK & DAM 4	1	11	33	2	6	20	5	9	28	1	7	57	:	241	6732	7.2	140			
LOCK & DAM 4 AUXILIARY 1	1	9	40	1	2	12	7	9	14	1	4	22	:	1	8	.1	26			
MAXWELL LOCK & DAM	1	9	26	1	6	20	8	10	43	1	8	19	:	21	363	.9	34			

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH			DIVISION NAME OHIO RIVER							MONTHS REPORTED											
											10/84				11/84				12/84			
											ALL TIMES EXPRESSED IN MINUTES											
											APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT		
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:										
MONONGAHELA RIVER																						
MAXWELL LOCK & DAM AUX 1	1	13	55	1	7	22	5	11	29	2	9	20	:	22	284	.7	39					
LOCK & DAM 7	1	6	37	1	4	15	5	5	44	1	9	36	:	327	16175	19.8	499					
LOCK & DAM 8	1	6	38	1	4	18	5	6	14	1	9	75	:	200	8050	11.0	425					
MORGANTOWN LOCK & DAM	3	5	40	5	5	25	5	10	20	5	5	15	:	0	0	.0	2					
HILDEBRAND LOCK & DAM	2	5	25	1	3	10	7	11	20	1	3	10	:	1	61	2.1	61					
OPEKISKA LOCK & DAM	2	6	14	1	2	11	5	10	15	1	3	7	:	0	0	.0	20					
OHIO RIVER																						
ENSWORTH LOCK & DAM	1	12	44	2	6	25	6	13	31	1	8	45	:	270	12784	14.9	230					
ENSWORTH LOCK & DAM AUX 1	1	8	24	2	3	10	5	8	40	2	3	10	:	28	492	1.8	78					
DASHIELDS LOCK & DAM	1	14	75	1	8	30	6	11	28	2	11	53	:	312	16640	20.0	410					
DASHIELDS LOCK & DAM AUX 1	1	10	35	1	2	16	5	6	15	1	3	38	:	20	333	1.6	69					
MONTGOMERY LOCK & DAM	1	10	43	1	9	46	6	14	49	2	12	106	:	278	21109	32.3	800					
MONTGOMERY LOCK & DAM AUX 1	1	5	54	1	5	29	5	9	60	1	6	54	:	203	53202	183.5	1810					
NEW CUMBERLAND LOCK & DAM	2	22	60	2	7	34	9	15	43	3	13	31	:	77	3008	6.3	104					
NEW CUMBERLAND LK & DAM AUX	1	13	51	1	3	13	8	12	24	1	9	34	:	32	538	1.9	39					
PIKE ISLAND LOCK & DAM	1	16	60	2	11	27	7	14	26	3	11	24	:	117	3865	6.6	152					
PIKE ISLAND LOCK & DAM AUX 1	1	11	49	1	5	42	6	13	25	2	8	33	:	12	221	.9	61					

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME			DIVISION NAME			MONTHS REPORTED											
	PITTSBURGH			OHIO RIVER			10/84			11/84			12/84					
	ALL TIMES EXPRESSED IN MINUTES																	
APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT			:	DELAYED TOWS	DELAY TIME	DELAY AVG	DELAY MAX		
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(TONS)	(TONS)	(ALL VSSLS)
OHIO RIVER																		
HANNIBAL LOCKS & DAM			1	16	50	2	11	32	5	15	35	3	11	54	:	128	4601	7.9 117
HANNIBAL LOCKS & DAM AUX 1			1	13	43	1	5	15	5	14	26	3	9	20	:	5	90	.8 39

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC K3	DISTRICT NAME JACKSONVILLE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED		
			10/84	11/84	12/84
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
CROSS FLA BRG CHL	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			
OKEECHOBEE WATERWAY	1-ST LUCIE LOCK & DAM	0250/0050/14.0			
	2-MOORE HAVEN LOCK	0250/0050/11.0			
	3-ORTONA LOCK & DAM	0250/0050/12.0			
	4-W P FRANKLIN LCK & CTRL STRCT	0400/0056/14.0			
	5-PORT MAYACA LOCK	0400/0056/14.0			
OKLAHAMA RIVER	31-NOSS BLUFF LOCK & DAM	0156/0030/XXXX			

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K5	MOBILE	SOUTH ATLANTIC	10/84	11/84	12/84
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
ALABAMA-COOSA 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			
BLKMAR/TOMBIGBEE RI	1-COFFEEVILLE LOCK	0600/0110/12.0			
	2-DEMOPOLIS LOCK & DAM	0600/0110/12.0			
	3-WARRIOR LOCK & DAM	0600/0110/12.0			
	4-WILLIAM BACON OLIVER LK & DM	0460/0095/12.0			
	5-HOLT LOCK & DAM	0600/0110/12.0			
	6-JOHN HOLLIS BANKHEAD LK & DM	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			
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			

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

ERDC KS	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED									
			10/84		11/84		12/84					
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)	
ALABAMA-COOSA RIVERS												
CLAIBORNE LOCK & DAM	xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	71	54	2	127	223	17	240	74	56	4	134	23
DOWNBOUND STATISTICS	68	56	2	126	16	212	228	72	54	3	129	263
TOTALS	139	110	4	253	239	229	468	146	110	7	263	287
MILLERS FERRY LOCK & DAM	xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	71	5	1	77	208	47	255	74	6	2	82	17
DOWNBOUND STATISTICS	71	4	5	80	18	221	239	73	5	2	80	271
TOTALS	142	9	6	157	226	268	494	147	11	4	162	288
JONES BLUFF LOCK & DAM	xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	14	17	0	31	7	12	19	13	3	0	16	15
DOWNBOUND STATISTICS	14	16	0	30	13	7	20	15	2	0	17	8
TOTALS	28	33	0	61	20	19	39	28	5	0	33	23
APLCH/CHTCH/FLNT RI												
JIM WOODRUFF LOCK & DAM	xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	76	14	6	96	81	53	134	88	10	6	104	83
DOWNBOUND STATISTICS	77	25	9	111	55	79	134	91	12	8	111	58
TOTALS	153	39	15	207	136	132	268	179	22	14	215	141
GEORGE W ANDREWS LOCK & DAM	xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	48	30	5	83	55	29	84	49	25	3	77	43
DOWNBOUND STATISTICS	48	38	4	90	29	61	90	47	29	3	79	49
TOTALS	96	68	9	173	84	90	174	96	54	6	156	93
WALTER F GEORGE LOCK & DAM	xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	28	23	2	53	49	12	61	33	15	2	50	15
DOWNBOUND STATISTICS	32	22	0	54	15	50	65	34	16	3	53	34
TOTALS	60	45	2	107	64	62	126	67	31	5	103	50

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC K5	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED										
			10/84		11/84		12/84						
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
BLKMAR/TOMBIGBEE RI													
COFFEEVILLE LOCK		XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		338	13	11	362	1329	294	1623	344	4	7	355	446
DOWNBOUND STATISTICS		337	12	9	358	104	1515	1619	345	7	8	360	2282
TOTALS		675	25	20	720	1433	1809	3242	689	11	15	715	2729
DENOPOLIS LOCK & DAM		XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		336	9	10	355	1322	303	1625	340	5	10	355	479
DOWNBOUND STATISTICS		321	8	11	340	80	1469	1549	326	4	8	338	2209
TOTALS		657	17	21	695	1402	1772	3174	666	9	18	693	2688
WARRIOR LOCK & DAM		XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		347	3	5	355	1383	303	1686	351	1	3	355	468
DOWNBOUND STATISTICS		330	7	5	342	85	1515	1600	331	4	5	340	2329
TOTALS		677	10	10	697	1468	1818	3286	682	5	8	695	2798
WILLIAM BACON OLIVER LK & DM		XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		321	6	55	382	1357	270	1627	528	5	10	543	389
DOWNBOUND STATISTICS		314	17	48	379	67	1528	1595	541	11	10	562	2319
TOTALS		635	23	103	761	1424	1798	3222	1069	16	20	1105	2709
MOLT LOCK & DAM		XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		294	5	7	306	1317	255	1572	299	3	3	305	369
DOWNBOUND STATISTICS		295	6	6	307	62	1500	1562	301	3	2	306	2259
TOTALS		589	11	13	613	1379	1755	3134	600	6	5	611	2628
JOHN HOLLIS BANKHEAD LK & DM		XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		244	4	6	254	937	250	1187	247	2	4	253	363
DOWNBOUND STATISTICS		244	7	5	256	72	1106	1178	248	1	5	254	1709
TOTALS		488	11	11	510	1009	1356	2365	495	3	9	507	2072
PEARL RIVER													
LOCK 1		NO DATA RECORDED FOR THIS LOCK											

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC K5	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED									12/84		
			10/84	11/84			12/84							
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
														(NAV, OPN, ETC)
PEARL RIVER														
LOCK 2		NO DATA RECORDED FOR THIS LOCK												
LOCK 3		NO DATA RECORDED FOR THIS LOCK												
TENN TOMBIGBEE WATERWAY														
GAINESVILLE LOCK & DAM		***	ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		17	9	1	27	36	12	48	18	4	7	29	15	
DOWNBOUND STATISTICS		17	6	1	24	8	34	42	19	4	10	33	50	
TOTALS		34	15	2	51	44	46	90	37	8	17	62	66	
ALICEVILLE LOCK & DAM		***	ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		14	28	14	56	22	6	28	32	26	11	69	11	
DOWNBOUND STATISTICS		14	27	7	48	4	26	30	27	28	18	73	41	
TOTALS		28	55	21	104	26	32	58	59	54	29	142	53	
COLUMBUS LOCK & DAM		***	ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		9	38	8	55	5	10	15	18	32	6	56	11	
DOWNBOUND STATISTICS		9	38	10	57	7	12	19	19	33	5	57	12	
TOTALS		18	76	18	112	12	22	34	37	65	11	113	23	
ABERDEEN LOCK & DAM		***	ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		0	3	1	4	0	0	0	1	2	1	4	0	
DOWNBOUND STATISTICS		0	3	1	4	0	0	0	1	2	1	4	0	
TOTALS		0	6	2	8	0	0	0	2	4	2	8	0	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC KS	DISTRICT NAME MOBILE			DIVISION NAME SOUTH ATLANTIC									MONTHS REPORTED									
													10/84			11/84			12/84			
ALL TIMES EXPRESSED IN MINUTES																						
APPROACH			LOCK PROCESSING TIME									: DELAYED : TONS	DELAY TIME (TONS)	DELAY AVG (TONS)	DELAY MAX (ALL VSSLS)							
			ENTRY			CHAMBER			EXIT													
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:							
TENN TOMBIGBEE WATERWAY																						
GAINESVILLE LOCK & DAM			1	9	37		1	5	12		5	13	27	:	1	7	23	:	2	20	.6	61
ALICEVILLE LOCK & DAM			1	3	31		1	2	17		7	13	35	:	1	2	14	:	1	19	.7	19
COLUMBUS LOCK & DAM			1	5	46		1	2	25		5	12	43	:	1	1	15	:	0	0	.0	0
ABERDEEN LOCK & DAM			1	4	22		1	2	12		6	14	28	:	1	3	15	:	0	0	.0	0

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K6	SAVANNAH	SOUTH ATLANTIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
SAVANNAH RIVER	1-NEW SAVANNAH BLUFF LOCK & DAM	0360/0056/12.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K7	WILMINGTON	SOUTH ATLANTIC	10/84	11/84	12/84

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

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILKINGTON	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME												
TONS												
VESSL												
VESSL												
VESSL												
BARGS												
BARGS												
BARGES												
LOCKGS												
LCKGES												
LCKGES												
LCKGES												
TONNAGE												
(NAV, OPN, ETC)												
CAPE FEAR RIVER												
LOCK & DAM 1												
XXX ONLY FIRST AND THIRD MONTHS REPORTED												
UPBOUND STATISTICS												
DOWNBOUND STATISTICS												
TOTALS												
LOCK & DAM 2												
XXX ONLY FIRST MONTH REPORTED												
UPBOUND STATISTICS												
DOWNBOUND STATISTICS												
TOTALS												
WILLIAM O HUSKE LOCK & DAM												
XXX ONLY FIRST MONTH REPORTED												
UPBOUND STATISTICS												
DOWNBOUND STATISTICS												
TOTALS												

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILMINGTON	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED														
			10/8411/8412/84														
			ALL TIMES EXPRESSED IN MINUTES														
			APPROACH			LOCK PROCESSING TIME						EXIT			: DELAYED DELAY		
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: TONS	TIME	AVG	MAX	(ALL VSSLS)	
CAPE FEAR RIVER																	
LOCK & DAM 1	5	5	5	5	5	5	10	14	15	5	10	35	:	0	0	.0	0
LOCK & DAM 2	5	5	5	5	5	5	5	11	15	5	6	10	:	0	0	.0	5
WILLIAM O HUSKE LOCK & DAM	5	5	5	5	5	5	5	5	5	5	5	5	:	0	0	.0	0

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC N3	DISTRICT NAME GALVESTON			DIVISION NAME SOUTHWESTERN							MONTHS REPORTED									
											10/84			11/84		12/84				
ALL TIMES EXPRESSED IN MINUTES																				
APPROACH			LOCK PROCESSING TIME						EXIT			:	DELAYED TONS	DELAY TIME (TONS)	DELAY AVG (TONS)	DELAY MAX (ALL VSSLS)				
			ENTRY	CHAMBER			:													
MIN	AVG	MAX		:	MIN	AVG		MAX	:	MIN	AVG	MAX	:							
GULF INTRACOASTAL																				
COLORADO RIVER EAST LOCK	1	2	18	:	1	1	20	:	1	4	59	:	1	1	26	:	1651	3267	2.0	60
COLORADO RIVER WEST LOCK	1	1	30	:	1	1	13	:	1	3	58	:	1	1	30	:	1604	2991	1.9	38
BRAZOS EAST GATE	1	1	47	:	1	1	60	:	1	1	1	:	1	1	51	:	1949	9600	4.9	545
BRAZOS WEST GATE	1	1	36	:	1	1	5	:	1	1	2	:	1	1	61	:	1856	5926	3.2	516

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H4	LITTLE ROCK	SOUTHWESTERN	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ARKANSAS RIVER	1-NORRELL LOCK & DAM	0600/0110/12.0
	2-LOCK & DAM 2	0600/0110/12.0
	3-LOCK & DAM 3	0600/0110/12.0
	4-LOCK & DAM 4	0600/0110/12.0
	5-LOCK & DAM 5	0600/0110/12.0
	6-DAVID D TERRY LOCK & DAM	0600/0110/12.0
	7-MURRAY LOCK & DAM	0600/0110/12.0
	8-TOAD SUCK FERRY LOCK & DAM	0600/0110/12.0
	9-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

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED										
			10/84		11/84		12/84						
RIVER/LOCK NAME		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
ARKANSAS RIVER													
MORRELL LOCK & DAM		XXX											
UPBOUND STATISTICS		166	8	23	197	573	310	883	174	7	21	202	420
DOWNBOUND STATISTICS		172	20	20	212	129	801	930	178	17	21	216	1096
TOTALS		338	28	43	409	702	1111	1813	352	24	42	418	1517
LOCK & DAM 2		XXX											
UPBOUND STATISTICS		167	9	15	191	573	324	897	181	8	8	197	441
DOWNBOUND STATISTICS		171	23	13	207	131	797	928	186	18	6	210	1162
TOTALS		338	32	28	398	704	1121	1825	367	26	14	407	1604
LOCK & DAM 3		XXX											
UPBOUND STATISTICS		150	15	15	180	525	306	831	163	11	32	206	422
DOWNBOUND STATISTICS		156	24	13	193	134	759	893	171	22	36	229	1032
TOTALS		306	39	28	373	659	1065	1724	334	33	68	435	1454
LOCK & DAM 4		XXX											
UPBOUND STATISTICS		150	12	14	176	523	322	845	160	12	13	185	401
DOWNBOUND STATISTICS		156	24	8	188	133	754	887	168	23	14	205	1034
TOTALS		306	36	22	364	656	1076	1732	328	35	27	390	1435
LOCK & DAM 5		XXX											
UPBOUND STATISTICS		132	23	7	162	415	268	683	141	20	10	171	339
DOWNBOUND STATISTICS		135	34	8	177	130	572	702	146	33	8	187	987
TOTALS		267	57	15	339	545	840	1385	287	53	18	358	1326
DAVID D TERRY LOCK & DAM		XXX											
UPBOUND STATISTICS		135	51	11	197	417	279	696	142	48	7	197	339
DOWNBOUND STATISTICS		134	59	13	206	128	575	703	148	57	7	212	909
TOTALS		269	110	24	403	545	854	1399	290	105	14	409	1249
MURRAY LOCK & DAM		XXX											
UPBOUND STATISTICS		114	60	7	181	389	240	629	123	47	5	175	306
DOWNBOUND STATISTICS		119	75	4	198	129	531	660	124	64	6	194	903
TOTALS		233	135	11	379	518	771	1289	247	111	11	369	1210

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME LITTLE ROCK			DIVISION NAME SOUTHWESTERN	MONTHS REPORTED										
					10/84		11/84		12/84						
RIVER/LOCK NAME				TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)															
ARKANSAS RIVER															
TODD SUCK FERRY LOCK & DAM				XXX											
UPBOUND STATISTICS				110	27	3	140	374	236	610	114	17	10	141	302
DOWNBOUND STATISTICS				117	33	2	152	130	534	664	121	21	11	153	844
TOTALS				227	60	5	292	504	770	1274	235	38	21	294	1147
LOCK & DAM 9				XXX											
UPBOUND STATISTICS				115	36	0	151	398	239	637	117	25	10	152	308
DOWNBOUND STATISTICS				115	48	4	167	126	527	653	120	34	7	161	833
TOTALS				230	84	4	318	524	766	1290	237	59	17	313	1141
DARDANELLE LOCK & DAM				XXX											
UPBOUND STATISTICS				124	27	85	236	396	235	631	131	14	15	160	299
DOWNBOUND STATISTICS				121	31	7	159	126	519	645	130	19	17	166	816
TOTALS				245	58	92	395	522	754	1276	261	33	32	326	1115
OZARK LOCK & DAM				XXX											
UPBOUND STATISTICS				113	15	4	132	393	225	618	118	13	8	139	288
DOWNBOUND STATISTICS				110	20	4	134	133	510	643	117	18	11	146	806
TOTALS				223	35	8	266	526	735	1261	235	31	19	285	1095
LOCK & DAM 13				XXX											
UPBOUND STATISTICS				117	19	2	138	388	228	616	120	15	8	143	285
DOWNBOUND STATISTICS				115	21	6	142	138	512	650	123	18	9	150	815
TOTALS				232	40	8	280	526	740	1266	243	33	17	293	1100

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK			DIVISION NAME SOUTHWESTERN			MONTHS REPORTED										
							10/84			11/84			12/84				
							ALL TIMES EXPRESSED IN MINUTES										
APPROACH			LOCK PROCESSING TIME									: DELAYED TOMS	DELAY TIME (TOMS)	DELAY AVG (TOMS)	DELAY MAX (ALL VSSLS)		
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX					:	
ARKANSAS RIVER																	
NORRELL LOCK & DAM	2	9	50	1	9	60	1	9	25	1	9	45	:	22	530	1.6	95
LOCK & DAM 2	1	10	50	1	10	32	5	12	32	1	12	52	:	47	1485	4.4	106
LOCK & DAM 3	1	10	40	1	8	40	5	9	27	1	10	45	:	42	1104	3.6	70
LOCK & DAM 4	1	11	46	1	8	29	5	13	135	1	9	45	:	33	1349	4.4	130
LOCK & DAM 5	1	10	45	1	9	38	5	10	29	1	12	54	:	63	1175	4.4	109
DAVID D TERRY LOCK & DAM	1	11	58	1	9	47	5	9	47	1	10	43	:	56	1170	4.3	135
MURRAY LOCK & DAM	1	8	35	1	8	69	5	10	32	1	9	70	:	26	708	3.0	87
TOAD SUCK FERRY LOCK & DAM	1	10	55	1	9	49	5	9	96	1	9	36	:	52	672	3.0	77
LOCK & DAM 9	1	13	100	1	9	81	6	12	32	1	9	39	:	28	617	2.7	103
DARDANELLE LOCK & DAM	1	12	72	1	8	36	5	14	56	1	9	86	:	204	1741	7.1	80
OZARK LOCK & DAM	2	12	55	2	10	30	5	12	30	2	11	25	:	174	1503	6.7	60
LOCK & DAM 13	1	9	45	1	10	43	6	12	38	2	12	47	:	27	866	3.7	116

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
NS	TULSA	SOUTHWESTERN	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/MID/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	0600/0110/14.0
	25-WENT GRAHAM LOCK & DAM	0600/0110/14.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC MS	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED										
			10/84		11/84			12/84					
RIVER/LOCK NAME		TOMS	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)
ARKANSAS RIVER													
H D MAYO LOCK & DAM		xxx											
UPBOUND STATISTICS		109	44	2	155	375	179	554	113	17	6	136	236
DOWNBOUND STATISTICS		109	44	11	164	104	492	596	117	17	6	140	794
TOTALS		218	88	13	319	479	671	1150	230	34	12	276	1031
ROBERT S KERR LOCK & DAM &RES		xxx											
UPBOUND STATISTICS		109	42	3	154	375	179	554	113	29	7	149	235
DOWNBOUND STATISTICS		110	47	8	165	106	492	598	119	34	7	160	793
TOTALS		219	89	11	319	481	671	1152	232	63	14	309	1028
WEBBERS FALLS LOCK & DAM		xxx											
UPBOUND STATISTICS		98	20	2	120	263	180	443	102	13	10	125	241
DOWNBOUND STATISTICS		97	22	5	124	104	375	479	104	13	10	127	640
TOTALS		195	42	7	244	367	555	922	206	26	20	252	882
CHOUTEAU LOCK & DAM		xxx											
UPBOUND STATISTICS		96	4	5	105	228	143	371	102	2	6	110	186
DOWNBOUND STATISTICS		92	5	9	106	75	311	386	103	4	7	114	507
TOTALS		188	9	14	211	303	454	757	205	6	13	224	694
MONT GRAHAM LOCK & DAM		xxx											
UPBOUND STATISTICS		95	8	4	107	225	145	370	100	8	3	111	189
DOWNBOUND STATISTICS		90	10	8	108	76	295	371	100	10	3	113	484
TOTALS		185	18	12	215	301	440	741	200	18	6	224	673

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC N5	DISTRICT NAME TULSA			DIVISION NAME SOUTHWESTERN							MONTHS REPORTED							
											10/84		11/84		12/84			
ALL TIMES EXPRESSED IN MINUTES																		
APPROACH			LOCK PROCESSING TIME							EXIT		DELAIED DELAY	DELAIED DELAY	DELAIED DELAY	DELAIED DELAY			
												TONS	TIME	AVG	MAX			
MIN AVG MAX			MIN AVG MAX							MIN AVG MAX		TONS	(TONS)	(TONS)	(ALL VSSLS)			
ARKANSAS RIVER																		
W D MAYO LOCK & DAM			1	11	44	1	9	32	5	11	25	1	10	75	9	248	1.1	55
ROBERT S KERR LOCK & DAM &RE			1	7	22	2	9	42	10	14	30	2	10	42	15	441	2.0	61
WEBBERS FALLS LOCK & DAM			2	12	40	1	9	37	10	18	42	2	9	3	125	2130	10.9	271
CHOUTEAU LOCK & DAM			1	8	32	1	8	45	5	15	25	2	9	40	56	396	2.1	105
NEWT GRAHAM LOCK & DAM			1	11	28	2	9	70	5	14	39	2	13	50	23	439	2.4	110

Appendix B

Glossary

Draft This is not a physical lock dimension. It is compared with new data before they are added to the central library to ensure that vessel drafts are not recorded improperly.

Tows Only tows with barges are included with this figure. Tows without barges, (light boats) and other commercial vessels are counted as "other vessels."

Other vessels All vessels other than tows with barges and recreational vessels.

Commercial lockages The number of lockages for which the prime mover is a tow, a light boat or another commercial vessel.

Recreational lockages The number of lockages during which there are only recreational vessels using the lock.

Other lockages The number of lockages during which the prime mover is a government vessel, a government contracted vessel (such as a dredge) or an unidentified type of vessel. Also included in this category are navigable and open pass lockages.

Total lockages A lockage includes all lock activity necessary to process a tow and is counted only once when more than one vessel uses the lock. Thus, both cuts of a double cut lockage (e.g. only part of the tow will fit in the lock and it is necessary to process the tow in two pieces) count as a single lockage together and the count increases by only one when two tows are processed during a single lockage.

Processing time Only the times needed to process tows with barges are included in these statistics.

Delayed vessels Number of tows experiencing delay between arrival time and the time the lock is ready to process them.

Average delay Average time of delay for all tows.

Maximum delay Maximum delay time for vessels. This figure may reflect a single, extraordinary circumstance and should be evaluated accordingly.

END

FILMED

12-85

DTIC