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**US Army Corps
of Engineers**
Engineer Institute for
Water Resources

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**Performance Monitoring System:
Summary of Lock
Statistics for
October - December 1985**

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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.			

PERFORMANCE MONITORING SYSTEM
SUMMARY OF LOCK STATISTICS
OCTOBER 1985 - DECEMBER 1985

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



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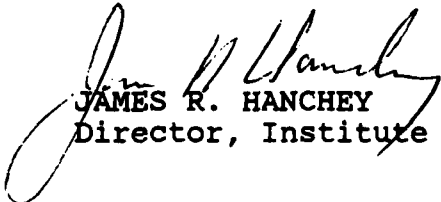
Summary Report 86-SR-2

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 Miss Shilpa B. Patel 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. Robert Schmidt, DAEN-CWO-M, and Mr. Robert M. Daniel, DAEN-CWP-D.

Requests to update or change the distribution, comments and questions can be directed to Frank Sharp (202-355-3083) or Robert Baldwin (202-653-1007). The information is produced and distributed quarterly.


JAMES R. HANCHEY
Director, Institute for Water Resources

CONTENTS

	Page
Introduction	IX
Appendix A: Performance Monitoring System Quarterly Report October 1985 through December 1985	
New Orleans District	1
St. Louis District	2
Vicksburg District	5
Division Office, NED	8
New York District	9
Norfolk District	10
Buffalo District	13
Chicago District	16
Detroit District	17
Rock Island District	18
St. Paul District	24
Portland District	28
Seattle District	31
Walla Walla District	34
Huntington District	37
Louisville District	41
Nashville District	46
Pittsburgh District	52
Jacksonville District	61
Mobile District	62
Savannah District	63
Wilmington District	64
Sacramento District	67
Galveston District	68
Little Rock District	71
Tulsa District	75
Appendix B: Glossary	

Introduction

The lock Performance Monitoring System (PMS) 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 include:

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 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED			
			10/85	11/85	12/85	
B2	NEW ORLEANS	LOWER MISS VALLEY				
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)			
ATCHAFALAYA RIVER	11-BERWICK 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	01-PORT ALLEN LOCK		1198/0084/15.0			
	02-BAYOU SORREL LOCK		0800/0056/16.0			
	03-INNER HRBR NAVIGATION CANL LK		0646/0075/40.0			
	04-ALGIERS LOCK		0797/0075/15.0			
	05-HARVEY LOCK		0425/0075/14.0			
	06-BAYOU BOEUF LOCK		1158/0075/15.0			
	07-VERMILLION LOCK		1200/0056/14.0			
	08-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			
	77-LELAND BOWMAN LOCK		1200/0110/15.0			
	OLD RIVER	51-OLD RIVER LOCK		1200/0075/15.0		

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
B3	ST LOUIS	LOWER MISS VALLEY	10/85	11/85	12/85

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
KASKASKIA RIVER	01-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 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC B3	DISTRICT NAME ST LOUIS	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED										
			10/85	11/85	12/85								
RIVER/LOCK NAME		TOWNS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)
KASKASKIA RIVER													
KASKASKIA RIVER NAVAGATION LK		XXX											
UPBOUND STATISTICS		250	43	68	361	613	184	797	318	33	0	351	223
DNBOUND STATISTICS		231	43	111	385	173	605	778	340	35	0	375	902
TOTAL		481	86	179	746	786	789	1575	658	68	0	726	1125
MISSISSIPPI RIVER													
LOCK & DAM 24		XXX											
UPBOUND STATISTICS		284	31	60	375	1269	1413	2682	481	31	5	517	2089
DNBOUND STATISTICS		344	74	26	444	339	3077	3416	556	84	12	652	4359
TOTAL		628	105	86	819	1608	4490	6098	1037	115	17	1169	6448
LOCK & DAM 25		XXX											
UPBOUND STATISTICS		286	50	85	421	1287	1411	2698	502	37	14	553	2081
DNBOUND STATISTICS		344	104	50	498	350	3105	3455	563	78	27	668	4397
TOTAL		630	154	135	919	1637	4516	6153	1065	115	41	1221	6479
LOCK & DAM 26		XXX											
UPBOUND STATISTICS		595	0	33	628	3682	3242	6924	1067	0	1	1068	4860
DNBOUND STATISTICS		671	0	16	687	616	7001	7617	1190	0	3	1193	9975
TOTAL		1266	0	49	1315	4298	10243	14541	2257	0	4	2261	14835
LOCK & DAM 26 AUX 1		XXX											
UPBOUND STATISTICS		317	41	148	506	480	359	839	577	21	7	605	610
DNBOUND STATISTICS		280	288	160	728	264	484	748	532	146	7	685	725
TOTAL		597	329	308	1234	744	843	1587	1109	167	14	1290	1335
CHAIN OF ROCKS LOCK & DAM 27		XXX											
UPBOUND STATISTICS		1151	15	214	1380	4956	3754	8710	1139	6	15	1160	5741
DNBOUND STATISTICS		1207	220	162	1589	1014	8409	9423	1201	75	16	1292	12322
TOTAL		2358	235	376	2969	5970	12163	18133	2340	81	31	2452	18063
CHAIN OF ROCKS LK & DM 27 AX1		XXX											
UPBOUND STATISTICS		0	0	0	0	0	0	0	0	0	0	0	0
DNBOUND STATISTICS		0	4	0	4	0	0	0	0	3	0	3	0
TOTAL		0	4	0	4	0	0	0	0	3	0	3	0

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC B3	DISTRICT NAME ST LOUIS	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED							
			10/85	11/85	12/85					

ALL TIMES EXPRESSED IN MINUTES										
		LOCK PROCESSING TIME (MIN.)			:	DELAYED	DELAY	DELAY	DELAY	
		APPROACH	ENTRY	CHAMBER	EXIT	:	TONS	TIME	AVG	MAX
		MIN AVG MAX	MIN AVG MAX	MIN AVG MAX	MIN AVG MAX	:	TONS	TONS	TONS	(ALL VSLS)

KASKASKIA RIVER										
KASKASKIA RIVER NAVIGATION L	1	6 46	1 3 27	5 9 105	1 3 45	47	931	1.9	140	
MISSISSIPPI RIVER										
LOCK & DAM 24	1	10 126	1 9 139	4 9 127	1 16 84	382	53436	85.0	940	
LOCK & DAM 25	1	9 103	1 8 440	4 8 55	1 14 155	625	42409	67.3	1179	
LOCK & DAM 26	1	7 680	1 10 438	4 11 190	1 13 422	1265	554391	437.9	5189	
LOCK & DAM 26 AUX 1	1	6 121	1 5 51	4 11 70	1 8 225	592	79314	132.8	3416	
CHAIN OF ROCKS LOCK & DAM 27	1	8 411	1 6 30	1 12 57	1 6 29	1897	129544	54.9	578	
CHAIN OF ROCKS LK & DM 27 AX	1	1 1	1 2 3	9 9 11	1 1 1	0	0	0.0	0	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
B4	VICKSBURG	LOWER MISS VALLEY	10/85	11/85	12/85

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
OUCHITA/BLACK RIV	01-JONESVILLE LOCK & DAM	0600/0084/23.4
	02-COLUMBIA LOCK & DAM	0600/0084/27.4
	03-FELSENTAL LOCK & DAM	0600/0084/11.0
	04-CALION LOCK & DAM	0600/0084/11.0
	06-LOCK & DAM 6	0268/0055/17.4
	08-LOCK & DAM 8	0268/0055/19.0
RED RIVER	41-RED RIVER LOCK & DAM #1	0685/0084/ 9.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC B4	DISTRICT NAME VICKSBURG	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED										
			10/85	11/85	12/85								
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
		(NAV, OPN, ETC)											
OUCHITA/BLACK RIV													
JONESVILLE LOCK & DAM		***											
	UPBOUND STATISTICS	31	0	6	37	65	37	102	30	0	13	43	68
	DNBOUND STATISTICS	32	4	1	37	32	70	102	30	2	11	43	99
	TOTAL	63	4	7	74	97	107	204	60	2	24	86	168
COLUMBIA LOCK & DAM		***											
	UPBOUND STATISTICS	9	1	0	10	4	18	22	9	1	2	12	24
	DNBOUND STATISTICS	8	1	1	10	13	6	19	9	1	2	12	8
	TOTAL	17	2	1	20	17	24	41	18	2	4	24	33
FELSENTHAL LOCK & DAM		***											
	UPBOUND STATISTICS	2	123	0	125	1	1	2	2	102	3	107	0
	DNBOUND STATISTICS	1	114	0	115	0	1	1	1	97	3	101	1
	TOTAL	3	237	0	240	1	2	3	3	199	6	208	1
CALION LOCK & DAM		***											
	UPBOUND STATISTICS	13	28	5	46	1	15	16	16	21	2	39	5
	DNBOUND STATISTICS	14	33	3	50	10	7	17	17	27	2	46	2
	TOTAL	27	61	8	96	11	22	33	33	48	4	85	8
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		***											
	UPBOUND STATISTICS	60	3	12	75	6	151	157	73	2	3	78	185
	DNBOUND STATISTICS	41	3	26	70	132	7	139	69	2	3	74	3
	TOTAL	101	6	38	145	138	158	296	142	4	6	152	189

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC B4	DISTRICT NAME VICKSBURG	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED													
			10/85	11/85	12/85											
						ALL TIMES EXPRESSED IN MINUTES										
			LOCK PROCESSING TIME (MIN.)				;	DELAYED	DELAY	DELAY	DELAY					
			APPROACH			ENTRY	CHAMBER	EXIT	;	TOWS	TIME	AVG	MAX			
			MIN	AVG	MAX	;	MIN	AVG	MAX	;	MIN	AVG	MAX			
			MIN	AVG	MAX	;	MIN	AVG	MAX	;	MIN	AVG	MAX			
							;	TOWS	TOWS	AVG	MAX	(ALL VSLs)				
DUCHITA/BLACK RIV																
JONESVILLE LOCK & DAM																
	1	7	25	1	7	55	1	13	59	1	8	55	7	86	1.3	40
COLUMBIA LOCK & DAM																
	3	6	10	5	6	15	5	16	21	5	7	20	1	5	0.2	5
FELSENTHAL LOCK & DAM																
	1	2	12	1	1	9	5	7	16	1	1	6	3	15	5.0	12
CALION LOCK & DAM																
	1	3	16	1	2	8	5	9	43	1	2	10	27	91	3.3	20
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																
	1	5	28	2	5	20	3	10	45	1	5	15	100	972	9.6	49

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC DO	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
	DIVISION OFFICE, NED	NEW ENGLAND	10/85	11/85	12/85

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
CHARLES RIVER	01-CHARLES RIVER LOCKS & DAM	0000/0000/55.0
	01-CHARLES RIVER L&D AUX 1	0000/0000/55.0
	01-CHARLES RIVER L&D AUX 2	0000/0000/55.0

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 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E3	NEW YORK	NORTH ATLANTIC	10/85	11/85	12/85

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

NO DATA RECORDED ON SUMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E4	NORFOLK	NORTH ATLANTIC	10/85	11/85	12/85

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
ATLANT INTRCOASTAL	11-GREAT BRIDGE GUARD LOCK	0530/0072/12.0
DISMAL SWAMP	01-DEEP CREEK LOCK	0300/0052/ 6.0
	02-SOUTH MILLS LOCK	0300/0052/ 6.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC	MONTHS REPORTED									
			10/85	11/85	12/85							
ATLANT INTRCOASTAL												
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)
GREAT BRIDGE GUARD LOCK												
	154	264	77	495	91	103	194	209	167	56	432	94
UPBOUND STATISTICS	147	2861	76	3084	91	87	178	205	692	57	954	83
DNBOUND STATISTICS	301	3125	153	3579	182	190	372	414	859	113	1386	177
TOTAL												
DISMAL SWAMP												
DEEP CREEK LOCK												
	1	15	0	16	1	0	1	1	10	1	12	0
UPBOUND STATISTICS	0	159	2	161	0	0	0	1	86	2	89	0
DNBOUND STATISTICS	1	174	2	177	1	0	1	2	96	3	101	0
TOTAL												
SOUTH MILLS LOCK												
	1	8	0	9	1	0	1	1	7	1	9	0
UPBOUND STATISTICS	0	156	1	157	0	0	0	1	76	1	78	0
DNBOUND STATISTICS	1	164	1	166	1	0	1	2	83	2	87	0
TOTAL												

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC	MONTHS REPORTED																		
			10/85	11/85	12/85																

ALL TIMES EXPRESSED IN MINUTES																					
LOCK PROCESSING TIME (MIN.)																					
APPROACH			ENTRY			CHAMBER			EXIT			: DELAYED		DELAY		DELAY		DELAY			
MIN AVG MAX			: MIN AVG MAX			: MIN AVG MAX			: MIN AVG MAX			: TONS		TIME		AVG		MAX			
MIN AVG MAX			: MIN AVG MAX			: MIN AVG MAX			: MIN AVG MAX			: TONS		TONS		TONS		(ALL VSLs)			

ATLANT INTRACOASTAL																					
GREAT BRIDGE GUARD LOCK						1	3	20	1	4	35	2	6	40	1	4	10	300	1281	4.2	42
DISMAL SWAMP																					
DEEP CREEK LOCK						3	5	10	2	5	15	5	8	15	5	6	20	1	5	5.0	10
SOUTH MILLS LOCK						2	3	12	3	5	10	5	9	10	3	5	15	1	5	5.0	75

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F1	BUFFALO	NORTH CENTRAL	10/85	11/85	12/85

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
BLK ROCK CH/TONAWANDA	01-BLACK ROCK LOCK	0650/0070/21.6

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC F1	DISTRICT NAME BUFFALO	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/85	11/85	12/85							

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

BLK ROCK CH/TONAWANDA												
BLACK ROCK LOCK		***										
UPBOUND STATISTICS	30	246	8	284	24	6	30	38	107	11	156	56
DNBOUND STATISTICS	33	451	1	485	8	28	36	36	184	11	231	168
TOTAL	63	697	9	769	32	34	66	74	291	22	387	224

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC F1	DISTRICT NAME BUFFALO	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED													
			10/85	11/85	12/85											
						ALL TIMES EXPRESSED IN MINUTES										
						LOCK PROCESSING TIME (MIN.)										
						APPROACH	ENTRY	CHAMBER	EXIT	: DELAYED	DELAY	DELAY	DELAY			
						MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX		
												: TOWS	TIME	AVG	MAX	
												TOWS	TOWS	(ALL VSLS)		
BLK ROCK CH/TONAWANDA																
BLACK ROCK LOCK	1	1	2	1	1	2	8	11	19	1	1	5	20	29	0.4	15

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F2	CHICAGO	NORTH CENTRAL	10/85	11/85	12/85

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
CHICAGO HARBOR	01-CHICAGO LOCK	0600/0080/21.5

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 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED			
			10/85	11/85	12/85	
F3	DETROIT	NORTH CENTRAL				
<hr/>						
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)			
FOX RIVER	11-DE PERE LOCK & DAM		0146/0036/	6.0		
	12-LITTLE KAUKAUNA LOCK & DAM		0146/0036/	6.0		
	13-RAPIDE CROCHE LOCK & DAM		0146/0036/	6.0		
	21-KAUKAUNA LOCK 1		0144/0035/	6.0		
	22-KAUKAUNA LOCK 2		0144/0035/	6.0		
	23-KAUKAUNA LOCK 3		0144/0031/	6.0		
	24-KAUKAUNA LOCK 4		0144/0037/	6.0		
	25-KAUKAUNA 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	61-ALANSON LOCK		0066/0018/	7.0	
	ST MARYS RIVER	01-MACARTHUR LOCK		0800/0080/	31.0	
		02-NEW POE LOCK		1200/0110/	32.0	
03-DAVIS LOCK00			1350/0080/	23.0		
04-SABIN LOCK00			1350/0080/	23.0		

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED		
			10/85	11/85	12/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
ILLINOIS	01-THOMAS J O'BRIEN		1000/0110/12.0		
	02-LOCKPORT LOCK		0600/0110/12.0		
	03-BRANDON ROAD LOCK & DAM		0600/0110/12.0		
	04-DRESDEN ISLAND LOCK & DAM		0600/0110/12.0		
	05-MARSELLES LOCK & DAM		0600/0110/12.0		
	06-STARVED ROCK LOCK & DAM		0600/0110/12.0		
	07-PEORIA LOCK & DAM		0600/0110/12.0		
	08-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 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/85			11/85			12/85			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
ILLINOIS												
THOMAS J O'BRIEN	XXX											
UPBOUND STATISTICS	307	145	72	524	281	599	880	368	96	3	467	875
DNBOUND STATISTICS	326	831	65	1222	387	561	948	382	303	2	687	863
TOTAL	633	976	137	1746	668	1160	1828	750	399	5	1154	1739
LOCKPORT LOCK	XXX											
UPBOUND STATISTICS	527	11	86	624	368	2128	2496	567	5	3	575	3198
DNBOUND STATISTICS	537	158	86	781	1623	902	2525	582	51	2	635	1351
TOTAL	1064	169	172	1405	1991	3030	5021	1149	56	5	1210	4549
BRANDON ROAD LOCK & DAM	XXX											
UPBOUND STATISTICS	532	14	93	639	408	2161	2569	588	8	2	598	3253
DNBOUND STATISTICS	520	142	97	759	1606	949	2555	586	59	2	647	1445
TOTAL	1052	156	190	1398	2014	3110	5124	1174	67	4	1245	4699
DRESDEN ISLAND LOCK & DAM	XXX											
UPBOUND STATISTICS	441	77	56	574	474	2219	2693	582	46	6	634	3402
DNBOUND STATISTICS	453	166	41	660	1568	1102	2670	572	97	5	674	1777
TOTAL	894	243	97	1234	2042	3321	5363	1154	143	11	1308	5180
MARSELLES LOCK & DAM	XXX											
UPBOUND STATISTICS	450	58	47	555	616	2151	2767	635	38	13	686	3397
DNBOUND STATISTICS	451	136	43	630	1364	1333	2697	609	95	12	716	2112
TOTAL	901	194	90	1185	1980	3484	5464	1244	133	25	1402	5509
STARVED ROCK LOCK & DAM	XXX											
UPBOUND STATISTICS	451	52	38	541	847	2174	3021	642	32	34	708	3443
DNBOUND STATISTICS	438	141	39	618	1316	1597	2913	612	101	26	739	2496
TOTAL	889	193	77	1159	2163	3771	5934	1254	133	60	1447	5930
PEORIA LOCK & DAM	XXX											
UPBOUND STATISTICS	490	18	53	561	1490	2584	4074	210	12	414	636	4035
DNBOUND STATISTICS	506	109	27	642	1402	2519	3921	225	62	391	678	3732
TOTAL	996	127	80	1203	2892	5103	7995	435	74	805	1314	7767
LAGRANGE LOCK & DAM	XXX											
UPBOUND STATISTICS	459	8	24	491	2188	2144	4332	208	4	366	578	3428
DNBOUND STATISTICS	468	135	6	609	742	3488	4230	201	72	369	642	5076
TOTAL	927	143	30	1100	2930	5632	8562	409	76	735	1220	8504

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/85			11/85			12/85			

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

MISSISSIPPI RIVER												
LOCK & DAM 11	***											
UPBOUND STATISTICS	141	94	72	307	491	787	1278	288	77	6	371	1158
DNBOUND STATISTICS	184	126	44	354	178	1603	1781	301	104	7	412	2311
TOTAL	325	220	116	661	669	2390	3059	589	181	13	783	3469
LOCK & DAM 12	***											
UPBOUND STATISTICS	143	96	39	278	498	885	1383	252	83	7	342	1285
DNBOUND STATISTICS	185	122	8	315	208	1681	1889	289	115	8	412	2385
TOTAL	328	218	47	593	706	2566	3272	541	198	15	754	3670
LOCK & DAM 13	***											
UPBOUND STATISTICS	144	149	42	335	498	883	1381	257	73	7	337	1283
DNBOUND STATISTICS	186	185	9	380	207	1673	1880	294	101	8	403	2363
TOTAL	330	334	51	715	705	2556	3261	551	174	15	740	3646
LOCK & DAM 14	***											
UPBOUND STATISTICS	216	120	40	376	726	1063	1789	344	74	8	426	1544
DNBOUND STATISTICS	255	143	18	416	224	2073	2297	402	88	5	495	2859
TOTAL	471	263	58	792	950	3136	4086	746	162	13	921	4404
LOCK & DAM 14 AUXILIARY 1	*** NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 15	***											
UPBOUND STATISTICS	215	6	49	270	637	1134	1771	369	5	11	385	1655
DNBOUND STATISTICS	258	17	31	306	278	2009	2287	437	22	7	466	2833
TOTAL	473	23	80	576	915	3143	4058	806	27	18	851	4488
LOCK & DAM 15 AUXILIARY 1	*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	34	97	28	159	17	27	44	61	61	0	122	46
DNBOUND STATISTICS	30	151	20	201	43	4	47	49	96	1	146	5
TOTAL	64	248	48	360	60	31	91	110	157	1	268	52
LOCK & DAM 16	***											
UPBOUND STATISTICS	230	32	77	339	701	1223	1924	400	35	15	450	1824
DNBOUND STATISTICS	290	65	29	384	339	2135	2474	445	73	14	532	2998
TOTAL	520	97	106	723	1040	3358	4398	845	108	29	982	4823
LOCK & DAM 17	***											
UPBOUND STATISTICS	212	19	39	270	721	1303	2024	361	24	12	397	1928
DNBOUND STATISTICS	254	54	12	320	381	2189	2570	411	71	14	496	3080
TOTAL	466	73	51	590	1102	3492	4594	772	95	26	893	5009

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/85			11/85			12/85			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
MISSISSIPPI RIVER												
LOCK & DAM 18	***											
UPBOUND STATISTICS	209	40	56	305	728	1243	1971	371	50	10	431	1851
DNBOUND STATISTICS	267	74	16	357	373	2275	2648	433	96	12	541	3204
TOTAL	476	114	72	662	1101	3518	4619	804	146	22	972	5055
LOCK & DAM 19	***											
UPBOUND STATISTICS	210	13	56	279	779	1311	2090	245	9	6	260	1944
DNBOUND STATISTICS	269	60	20	349	345	2451	2796	285	38	8	331	3440
TOTAL	479	73	76	628	1124	3762	4886	530	47	14	591	5384
LOCK & DAM 19 AUXILIARY 1	*** NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 20	***											
UPBOUND STATISTICS	225	11	124	360	871	1323	2194	455	10	13	478	1958
DNBOUND STATISTICS	286	63	80	429	325	2559	2884	517	56	18	591	3577
TOTAL	511	74	204	789	1196	3882	5078	972	66	31	1069	5536
LOCK & DAM 21	***											
UPBOUND STATISTICS	248	23	70	341	1066	1352	2418	451	22	6	479	1998
DNBOUND STATISTICS	312	67	31	410	346	2758	3104	532	67	10	609	3868
TOTAL	560	90	101	751	1412	4110	5522	983	89	16	1088	5867
LOCK & DAM 22	***											
UPBOUND STATISTICS	258	32	54	344	1123	1373	2496	449	23	6	478	2035
DNBOUND STATISTICS	319	101	18	438	297	2896	3193	527	78	7	612	4100
TOTAL	577	133	72	782	1420	4269	5689	976	101	13	1090	6135

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED																								
			10/85				11/85				12/85																
												ALL TIMES EXPRESSED IN MINUTES															
												LOCK PROCESSING TIME (MIN.)															
												APPROACH	ENTRY		CHAMBER		EXIT		:	DELAYED	DELAY	DELAY	DELAY				
												MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	TOWS	TIME	AVG	MAX
												MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	TOWS	TOWS	TOWS	(ALL VSLS)
MISSISSIPPI RIVER																											
LOCK & DAM 15 AUXILIARY 1	1	2	30	1	2	13	3	10	57	1	2	18	6	92	1.4	30											
LOCK & DAM 16	1	11	96	1	8	105	1	8	115	1	16	140	269	46993	90.3	2900											
LOCK & DAM 17	1	12	85	1	8	115	2	9	86	1	15	90	218	30124	64.6	1830											
LOCK & DAM 18	1	11	195	1	10	200	1	7	128	1	15	394	238	27085	56.9	1340											
LOCK & DAM 19	1	25	676	1	9	698	1	19	748	1	10	89	202	109330	228.2	8390											
LOCK & DAM 19 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																										
LOCK & DAM 20	1	8	482	1	8	90	1	7	125	1	16	163	268	72445	141.7	3516											
LOCK & DAM 21	1	11	445	1	8	405	1	6	36	1	17	437	275	27854	49.7	1066											
LOCK & DAM 22	1	17	902	1	10	564	1	7	387	1	21	405	370	66521	115.2	2314											

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
			10/85	11/85	12/85
F5	ST PAUL	NORTH CENTRAL			
RIVER	L CODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
MISSISSIPPI RIVER	01-LOCK & DAM 1 MAIN CHBR 1	0400/0056/11.0			
	01-LOCK & DAM 1 MAIN CHBR 2	0400/0056/11.0			
	02-LOCK & DAM 2	0600/0110/11.0			
	02-LOCK & DAM 2 AUXILIARY 1	0500/0110/11.0			
	03-LOCK & DAM 3	0600/0110/11.0			
	04-LOCK & DAM 4	0600/0110/11.0			
	05-LOCK & DAM 5	0600/0110/11.0			
	06-LOCK & DAM 6	0600/0110/11.0			
	07-LOCK & DAM 7	0600/0110/11.0			
	08-LOCK & DAM 8	0600/0110/11.0			
	09-LOCK & DAM 9	0600/0110/11.0			
	10-LOCK & DAM 10	0600/0110/11.0			
	51-ST ANTHONY FALLS UPPER L & D	0400/0056/11.0			
	52-ST ANTHONY FALLS LOWER L & D	0400/0056/11.0			
	55-LOCK & DAM 5A	0600/0110/11.0			

TABLE 2

PERFORMANCE MONITORING SYSTEM (PHS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/85		11/85		12/85					

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

MISSISSIPPI RIVER												
LOCK & DAM 1 MAIN CHBR 1	*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	138	117	24	279	87	152	239	156	66	7	229	209
DNBOUND STATISTICS	145	133	10	288	149	104	253	153	65	9	227	144
TOTAL	283	250	34	567	236	256	492	309	131	16	456	354
LOCK & DAM 1 MAIN CHBR 2	*** NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 2	*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	180	184	24	388	867	508	1375	252	128	2	382	749
DNBOUND STATISTICS	202	153	4	359	79	1617	1696	289	116	2	407	2361
TOTAL	382	337	28	747	946	2125	3071	541	244	4	789	3111
LOCK & DAM 2 AUXILIARY 1	*** NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 3	*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	135	226	29	390	602	509	1111	202	157	10	369	747
DNBOUND STATISTICS	157	283	8	448	72	1379	1451	227	169	8	404	2036
TOTAL	292	509	37	838	674	1888	2562	429	326	18	773	2783
LOCK & DAM 4	***											
UPBOUND STATISTICS	132	86	36	254	627	517	1144	219	80	10	309	758
DNBOUND STATISTICS	177	110	6	293	57	1450	1507	258	93	12	363	2132
TOTAL	309	196	42	547	684	1967	2651	477	173	22	672	2890
LOCK & DAM 5	***											
UPBOUND STATISTICS	132	58	21	211	596	523	1119	203	64	25	292	769
DNBOUND STATISTICS	152	81	5	238	57	1395	1452	229	80	30	339	2042
TOTAL	284	139	26	449	653	1918	2571	432	144	55	631	2812
LOCK & DAM 6	***											
UPBOUND STATISTICS	133	70	22	225	641	605	1246	221	61	16	298	881
DNBOUND STATISTICS	156	85	1	242	68	1478	1546	240	86	14	340	2160
TOTAL	289	155	23	467	709	2083	2792	461	147	30	638	3042
LOCK & DAM 7	***											
UPBOUND STATISTICS	135	116	50	301	643	618	1261	242	103	14	359	902
DNBOUND STATISTICS	165	141	15	321	75	1462	1537	245	120	13	378	2135
TOTAL	300	257	65	622	718	2080	2798	487	223	27	737	3037

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/85		11/85		12/85					
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
MISSISSIPPI RIVER												
LOCK & DAM 8	XXX											
UPBOUND STATISTICS	138	49	21	208	600	673	1273	217	62	10	289	987
DNBOUND STATISTICS	156	71	2	229	104	1444	1548	233	90	13	336	2085
TOTAL	294	120	23	437	704	2117	2821	450	152	23	625	3073
LOCK & DAM 9	XXX											
UPBOUND STATISTICS	134	77	21	232	469	735	1204	203	77	8	288	1082
DNBOUND STATISTICS	161	96	1	258	161	1457	1618	241	109	10	360	2122
TOTAL	295	173	22	490	630	2192	2822	444	186	18	648	3205
LOCK & DAM 10	XXX											
UPBOUND STATISTICS	147	74	36	257	543	758	1301	245	92	8	345	1109
DNBOUND STATISTICS	179	103	10	292	160	1593	1753	279	121	8	408	2309
TOTAL	326	177	46	549	703	2351	3054	524	213	16	753	3418
ST ANTHONY FALLS UPPER L & D	XXX ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	94	55	22	171	83	66	149	115	39	5	159	100
DNBOUND STATISTICS	108	67	9	184	72	99	171	115	43	4	162	136
TOTAL	202	122	31	355	155	165	320	230	82	9	321	237
ST ANTHONY FALLS LOWER L & D	XXX ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	140	55	24	219	92	150	242	164	36	0	200	210
DNBOUND STATISTICS	153	65	9	227	156	105	261	160	41	2	203	145
TOTAL	293	120	33	446	248	255	503	324	77	2	403	355
LOCK & DAM 5A	XXX											
UPBOUND STATISTICS	133	83	47	263	603	539	1142	229	85	24	338	787
DNBOUND STATISTICS	155	99	24	278	60	1381	1441	230	106	22	358	2026
TOTAL	288	182	71	541	663	1920	2583	459	191	46	696	2813

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G2	PORTLAND	NORTH PACIFIC	10/85	11/85	12/85

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
COLUMBIA RIVER	01-BONNEVILLE LOCK & DAM	0500/0075/15.0
	02-THE DALLES DAM	0675/0086/15.0
	03-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

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC G2	DISTRICT NAME PORTLAND	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED										
			10/85	11/85	12/85								
RIVER/LOCK NAME		TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTOMS)
COLUMBIA RIVER													
BONNEVILLE LOCK & DAM		XXX											
	UPBOUND STATISTICS	193	9	23	225	378	262	640	404	15	7	426	400
	DNBOUND STATISTICS	195	7	8	210	45	621	666	416	8	5	429	1300
	TOTAL	388	16	31	435	423	883	1306	820	23	12	855	1701
THE DALLES DAM		XXX											
	UPBOUND STATISTICS	138	6	4	148	246	260	506	142	7	7	156	454
	DNBOUND STATISTICS	133	7	4	144	45	453	498	139	7	2	148	1059
	TOTAL	271	13	8	292	291	713	1004	281	14	9	304	1513
JOHN DAY LOCK & DAM		XXX											
	UPBOUND STATISTICS	136	5	4	145	237	259	496	143	5	2	150	398
	DNBOUND STATISTICS	134	3	5	142	53	450	503	143	2	1	146	1080
	TOTAL	270	8	9	287	290	709	999	286	7	3	296	1479
WILLAMETTE RIVER													
WILLAMETTE FALLS LOCKS 1 - 4		XXX											
	UPBOUND STATISTICS	251	34	25	310	141	188	329	347	29	1	377	43
	DNBOUND STATISTICS	220	31	51	302	4	280	284	321	32	1	354	125
	TOTAL	471	65	76	612	145	468	613	668	61	2	731	168
WILLAMETTE FALLS GUARD LOCK		XXX											
	UPBOUND STATISTICS	251	35	153	439	143	112	255	378	26	1	405	28
	DNBOUND STATISTICS	217	31	185	433	8	211	219	363	27	1	391	111
	TOTAL	468	66	338	872	151	323	474	741	53	2	796	139

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC G2	DISTRICT NAME PORTLAND	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED																
			10/85	11/85	12/85														
													ALL TIMES EXPRESSED IN MINUTES						
													:	DELAYED	DELAY	DELAY	DELAY		
													:	TOWS	TIME	AVG	MAX		
			LOCK PROCESSING TIME (MIN.)																
			APPROACH			ENTRY			CHAMBER			EXIT							
			MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	:	TOWS	TOWS	TOWS	(ALL VSLs)
COLUMBIA RIVER																			
BONNEVILLE LOCK & DAM																			
	1	7	268	1	7	60	1	23	203	1	4	27	371	23990	61.8	455			
THE DALLES DAM																			
	1	5	20	2	6	35	8	22	85	1	5	23	221	2573	9.4	55			
JOHN DAY LOCK & DAM																			
	1	5	25	1	6	19	13	26	80	2	5	14	269	2758	10.2	80			
WILLAMETTE RIVER																			
WILLAMETTE FALLS LOCKS 1 - 4																			
	1	1	5	1	1	19	1	34	125	1	2	62	471	488	1.0	15			
WILLAMETTE FALLS GUARD LOCK																			
	1	1	2	1	1	4	1	1	61	1	1	11	468	468	1.0	2			

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G3	SEATTLE	NORTH PACIFIC	10/85	11/85	12/85

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
LAKE WASHINGTON SHP CA	01-HIRAM M CHITTENDEN LOCKS	0760/0080/30.0
	01-HIRAM M CHITTENDEN LOCKS AUX1	0150/0028/25.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC G3	DISTRICT NAME SEATTLE	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED									
			10/85	11/85	12/85							

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

LAKE WASHINGTON SHP CA												
HIRAM M CHITTENDEN LOCKS *** ONLY SECOND AND THIRD MONTHS REPORTED												
UPBOUND STATISTICS	142	61	143	346	56	127	183	301	5	26	332	198
DNBOUND STATISTICS	167	76	114	357	134	312	446	290	4	21	315	98
TOTAL	309	137	257	703	190	439	629	591	9	47	647	296
HIRAM M CHITTENDEN LOCKS AUX1 ***												
UPBOUND STATISTICS	19	1177	187	1383	12	7	19	440	420	49	909	0
DNBOUND STATISTICS	20	1304	175	1499	9	11	20	393	492	49	934	0
TOTAL	39	2481	362	2882	21	18	39	833	912	98	1843	0

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED													
			10/85	11/85	12/85											
G3	SEATTLE	NORTH PACIFIC														
LOCK PROCESSING TIME (MIN.) ALL TIMES EXPRESSED IN MINUTES																
			: DELAYED DELAY DELAY DELAY													
			: TONS TIME AVG MAX													
			: TONS TONS (ALL VLSL)													
APPROACH LOCK PROCESSING TIME (MIN.) ENTRY CHAMBER EXIT																
MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :																
LAKE WASHINGTON SHP CA																
HIRAM M CHITTENDEN LOCKS	1	2	57	1	3	25	2	11	34	1	3	31	280	2401	7.7	260
HIRAM M CHITTENDEN LOCKS AUX	1	1	8	1	1	24	2	4	24	1	5	26	2	7	0.1	1610

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G4	WALLA WALLA	NORTH PACIFIC	10/85	11/85	12/85

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
COLUMBIA RIVER	24-MCNARY LOCK & DAM	0675/0086/14.0
SNAKE RIVER	01-ICE HARBOR LOCK & DAM	0670/0086/14.0
	02-LOWER MONUMENTAL LOCK & DAM	0670/0086/14.0
	03-LITTLE GOOSE LOCK & DAM	0670/0086/14.0
	04-LOWER GRANITE LOCK & DAM	0670/0086/14.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC G4	DISTRICT NAME HALLA HALLA	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED										
			10/85	11/85	12/85								
RIVER/LOCK NAME		TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)
COLUMBIA RIVER													
MCNARY LOCK & DAM		XXX											
UPBOUND STATISTICS		133	14	9	156	202	254	456	140	9	1	150	394
DNBOUND STATISTICS		129	14	9	152	57	407	464	137	9	1	147	927
TOTAL		262	28	18	308	259	661	920	277	18	2	297	1322
SNAKE RIVER													
ICE HARBOR LOCK & DAM		XXX											
UPBOUND STATISTICS		118	23	19	160	212	58	270	137	15	1	153	29
DNBOUND STATISTICS		118	20	19	157	5	273	278	138	16	1	155	636
TOTAL		236	43	38	317	217	331	548	275	31	2	308	665
LOWER MONUMENTAL LOCK & DAM		XXX											
UPBOUND STATISTICS		77	7	3	87	185	60	245	81	6	1	88	36
DNBOUND STATISTICS		77	7	3	87	10	242	252	81	7	1	89	555
TOTAL		154	14	6	174	195	302	497	162	13	2	177	592
LITTLE GOOSE LOCK & DAM		XXX											
UPBOUND STATISTICS		76	15	3	94	170	59	229	78	12	2	92	33
DNBOUND STATISTICS		76	15	3	94	10	226	236	81	13	1	95	502
TOTAL		152	30	6	188	180	285	465	159	25	3	187	536
LOWER GRANITE LOCK & DAM		XXX											
UPBOUND STATISTICS		72	25	4	101	106	58	164	77	24	0	101	30
DNBOUND STATISTICS		71	26	5	102	7	160	167	76	25	1	102	325
TOTAL		143	51	9	203	113	218	331	153	49	1	203	355

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC G4	DISTRICT NAME WALLA WALLA	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED																											
			10/85	11/85	12/85																									
												ALL TIMES EXPRESSED IN MINUTES																		
												LOCK PROCESSING TIME (MIN.)	:	DELAYED	DELAY	DELAY	DELAY													
												APPROACH	ENTRY	CHAMBER	EXIT	:	TOMS	TIME	AVG	MAX										
												MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	TOMS	TOMS	(ALL USLS)
COLUMBIA RIVER																														
	MCNARY LOCK & DAM		2	4	16	:	2	6	21	:	10	16	45	:	2	6	20	:	262	1350	5.1	51								
SNAKE RIVER																														
	ICE HARBOR LOCK & DAM		2	3	9	:	2	4	19	:	10	22	50	:	2	3	11	:	236	1157	4.9	57								
	LOWER MONUMENTAL LOCK & DAM		1	4	13	:	2	6	20	:	14	24	38	:	2	5	13	:	154	889	5.7	60								
	LITTLE GOOSE LOCK & DAM		2	3	18	:	2	4	19	:	11	15	29	:	1	5	15	:	152	740	4.8	28								
	LOWER GRANITE LOCK & DAM		1	3	13	:	2	4	16	:	9	13	32	:	1	4	11	:	143	670	4.6	63								

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H1	HUNTINGTON	OHIO RIVER	10/85	11/85	12/85

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

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME MUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/85		11/85		12/85					

RIVER/LOCK NAME	TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTOMS)

KANAWHA RIVER												
WINFIELD LOCKS & DAM MAIN 1	xxx											
UPBOUND STATISTICS	272	3	25	300	1237	368	1605	1096	7	0	1103	544
DNBOUND STATISTICS	317	17	20	354	233	1695	1928	1276	15	3	1294	2000
TOTAL	589	20	45	654	1470	2063	3533	2372	22	3	2397	2545
WINFIELD LOCKS & DAM MAIN 2	xxx											
UPBOUND STATISTICS	253	14	17	284	1309	266	1575	991	11	15	1017	367
DNBOUND STATISTICS	225	23	16	264	226	1058	1284	831	10	10	851	1230
TOTAL	478	37	33	548	1535	1324	2859	1822	21	25	1868	1598
MARRET LOCKS & DAM MAIN 1	xxx											
UPBOUND STATISTICS	174	3	12	189	818	83	901	641	10	0	651	102
DNBOUND STATISTICS	221	6	19	246	58	1079	1137	873	10	0	883	1350
TOTAL	395	9	31	435	876	1162	2038	1514	20	0	1534	1453
MARRET LOCKS & DAM MAIN 2	xxx											
UPBOUND STATISTICS	214	30	32	276	885	59	944	741	39	3	783	81
DNBOUND STATISTICS	167	9	28	204	41	678	719	548	22	2	572	829
TOTAL	381	39	60	480	926	737	1663	1289	61	5	1355	910
LONDON LOCKS & DAM MAIN 1	xxx											
UPBOUND STATISTICS	56	0	10	66	158	13	171	156	0	2	158	14
DNBOUND STATISTICS	62	0	8	70	1	172	173	161	0	0	161	230
TOTAL	118	0	18	136	159	185	344	317	0	2	319	245
LONDON LOCKS & DAM MAIN 2	xxx											
UPBOUND STATISTICS	145	5	25	175	376	12	388	375	11	2	388	13
DNBOUND STATISTICS	143	4	13	160	4	378	382	361	9	2	372	536
TOTAL	288	9	38	335	380	390	770	736	20	4	760	549
OHIO RIVER												
BELLEVILLE LOCKS & DAM	xxx											
UPBOUND STATISTICS	371	0	6	377	689	3440	4129	373	0	1	374	4947
DNBOUND STATISTICS	334	3	4	341	1944	1914	3858	337	1	1	339	2685
TOTAL	705	3	10	718	2633	5354	7987	710	1	2	713	7633

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED			TONNAGE (KTONS)							
			10/85	11/85	12/85								
RIVER/LOCK NAME		TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	
(NAV, OPN, ETC)													
OHIO RIVER													
BELLEVILLE LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		20	34	12	66	14	56	70	31	18	4	53	58
DNBOUND STATISTICS		52	45	6	103	123	50	173	59	26	5	90	66
TOTAL		72	79	18	169	137	106	243	90	44	9	143	124
RACINE LOCKS & DAM		***											
UPBOUND STATISTICS		399	0	15	414	882	3490	4372	403	0	0	403	4949
DNBOUND STATISTICS		372	7	9	388	1999	2092	4091	378	1	3	382	2814
TOTAL		771	7	24	802	2881	5582	8463	781	1	3	785	7763
RACINE LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		27	30	15	72	53	23	76	36	8	9	53	31
DNBOUND STATISTICS		43	42	10	95	64	68	132	51	23	10	84	67
TOTAL		70	72	25	167	117	91	208	87	31	19	137	99
GALLIFOLIS LOCKS & DAM		***											
UPBOUND STATISTICS		480	15	33	528	1009	3305	4314	796	6	8	810	5070
DNBOUND STATISTICS		471	28	34	533	1741	2421	4162	769	20	4	793	3477
TOTAL		951	43	67	1061	2750	5726	8476	1565	26	12	1603	8548
GALLIFOLIS LOCKS & DAM AUX 1		***	NO DATA RECORDED FOR THIS LOCK										
GREENUP LOCKS & DAM		***											
UPBOUND STATISTICS		594	8	18	620	4185	1938	6123	601	3	1	605	2919
DNBOUND STATISTICS		594	10	12	616	745	5379	6124	600	3	2	605	8122
TOTAL		1188	18	30	1236	4930	7317	12247	1201	6	3	1210	11042
GREENUP LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS		82	149	41	272	194	48	242	121	75	3	199	69
DNBOUND STATISTICS		75	105	55	235	90	95	185	126	55	3	184	139
TOTAL		157	254	96	507	284	143	427	247	130	6	373	208
CAPTAIN MELWAHL LOCKS & DAM		***											
UPBOUND STATISTICS		563	41	8	612	3836	2206	6042	570	32	0	602	3405
DNBOUND STATISTICS		546	65	14	625	686	5272	5958	557	46	0	603	7950
TOTAL		1109	106	22	1237	4522	7478	12000	1127	78	0	1205	11356
CAPTAIN MELWAHL DAM AUX 1		***	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		14	0	1	15	27	18	45	15	0	0		25
DNBOUND STATISTICS		19	4	4	27	35	24	59	22	4	1		33
TOTAL		33	4	5	42	62	42	104	37	4	1		58

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/85	11/85	12/85								
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
OHIO RIVER													
WILLOW ISLAND LOCKS & DAM		###											
UPBOUND STATISTICS		336	1	8	345	695	3064	3759	341	0	1	342	4250
DNBOUND STATISTICS		325	2	3	330	1712	1857	3569	328	1	1	330	2537
TOTAL		661	3	11	675	2407	4921	7328	669	1	2	672	6787
WILLOW ISLAND LOCKS & DAM AUX		###											
UPBOUND STATISTICS		57	7	20	84	54	115	169	78	6	5	89	95
DNBOUND STATISTICS		67	19	16	102	136	70	206	85	17	6	108	90
TOTAL		124	26	36	186	190	185	375	163	23	11	197	185

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED		
			10/85	11/85	12/85
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
GREEN/BARREN RIVER	21-LOCK & DAM 1	0600/0084/12.0			
	22-LOCK & DAM 2	0600/0084/12.0			
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			
	52-LOCK & DAM 52	1200/0110/12.0			
	52-LOCK & DAM 52 AUX 1	0600/0110/12.0			
	75-CANNELTON LOCK & DAM	1200/0110/12.0			
	75-CANNELTON LOCK & DAM AUX	0600/0110/12.0			
	76-NEWBURGH LOCK & DAM	1200/0110/12.0			
	76-NEWBURGH LOCK & DAM AUX 1	0600/0110/12.0			
	77-UNIONTOWN LOCK & DAM	1200/0110/12.0			
	77-UNIONTOWN LOCK & DAM AUX 1	0600/0110/12.0			
	78-SMITHLAND LOCK & DAM	1200/0110/12.0			
	78-SMITHLAND LOCK & DAM AUX 1	1200/0110/12.0			

TABLE 2 PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC HZ	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/85	11/85	12/85							
RIVER/LOCK NAME												
TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)	
GREEN/BARREN RIVER												
LOCK & DAM 1												
UPBOUND STATISTICS												
461	16	5	482	1570	185	1755	284	14	182	480	278	
DNBOUND STATISTICS												
446	18	14	478	75	1654	1729	312	15	149	476	2480	
TOTAL												
907	34	19	960	1645	1839	3484	596	29	331	956	2759	
LOCK & DAM 2												
UPBOUND STATISTICS												
315	10	10	335	1187	40	1227	318	6	7	331	59	
DNBOUND STATISTICS												
314	10	9	333	27	1193	1220	322	8	2	332	1787	
TOTAL												
629	20	19	668	1214	1233	2447	640	14	9	663	1847	
OHIO RIVER												
MARKLAND LOCKS & DAM												
UPBOUND STATISTICS												
556	3	5	564	3450	2523	5973	562	1	0	563	3916	
DNBOUND STATISTICS												
546	4	4	554	581	5289	5870	551	2	0	553	7873	
TOTAL												
1102	7	9	1118	4031	7812	11843	1113	3	0	1116	11789	
MARKLAND LOCKS & DAM AUX 1												
UPBOUND STATISTICS												
36	130	10	176	46	46	92	48	51	0	99	73	
DNBOUND STATISTICS												
43	166	13	222	55	55	110	55	85	3	143	67	
TOTAL												
79	296	23	398	101	101	202	103	136	3	242	140	
MCALPINE LOCKS & DAM												
UPBOUND STATISTICS												
663	40	107	810	3167	3556	6723	732	15	4	751	5420	
DNBOUND STATISTICS												
669	88	95	852	869	5699	6568	739	42	1	782	8438	
TOTAL												
1332	128	202	1662	4036	9255	13291	1471	57	5	1533	13858	
MCALPINE LOCKS & DAM AUX 1												
NO DATA RECORDED FOR THIS LOCK												
LOCK & DAM 52												
UPBOUND STATISTICS												
985	29	158	1172	6845	4135	10980	200	21	848	1069	6513	
DNBOUND STATISTICS												
1053	6	103	1162	1774	9564	11338	203	3	916	1122	13899	
TOTAL												
2038	35	261	2334	8619	13699	22318	403	24	1764	2191	20412	
LOCK & DAM 52 AUX 1												
ONLY FIRST MONTH REPORTED												
UPBOUND STATISTICS												
120	28	20	168	326	365	591	101	12	0	143	475	
DNBOUND STATISTICS												
126	6	20	152	162	461	623	137	4	0	141	686	
TOTAL												
246	34	40	320	488	726	1214	268	16	0	284	1162	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/85		11/85		12/85					
RIVER/LOCK NAME												
TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
(NAV, OPN, ETC)												
OHIO RIVER												
CANNELTON LOCK & DAM												
UPBOUND STATISTICS												
620	14	22	656	3161	3506	6667	632	6	2	640	5430	
DNBOUND STATISTICS												
607	59	35	701	823	5746	6569	626	24	1	651	8252	
TOTAL												
1227	73	57	1357	3984	9252	13236	1258	30	3	1291	13683	
CANNELTON LOCK & DAM AUX												
UPBOUND STATISTICS												
33	3	14	50	129	120	249	57	1	3	61	173	
DNBOUND STATISTICS												
41	38	10	89	87	296	383	69	21	2	92	432	
TOTAL												
74	41	24	139	216	416	632	126	22	5	153	605	
NEWBURGH LOCK & DAM												
UPBOUND STATISTICS												
716	6	30	752	3803	3604	7407	724	0	0	724	5585	
DNBOUND STATISTICS												
698	7	22	727	987	6458	7445	711	1	1	713	9216	
TOTAL												
1414	13	52	1479	4790	10062	14852	1435	1	1	1437	14801	
NEWBURGH LOCK & DAM AUX 1												
UPBOUND STATISTICS												
71	150	20	241	113	92	205	95	107	4	206	151	
DNBOUND STATISTICS												
69	196	45	310	86	85	171	117	153	2	272	118	
TOTAL												
140	346	65	551	199	177	376	212	260	6	478	269	
UNIONTOWN LOCK & DAM												
UPBOUND STATISTICS												
806	4	14	824	6218	3018	9236	812	1	1	814	4737	
DNBOUND STATISTICS												
832	13	6	851	923	8473	9396	834	4	0	838	12498	
TOTAL												
1638	17	20	1675	7141	11491	18632	1646	5	1	1652	17236	
UNIONTOWN LOCK & DAM AUX 1												
UPBOUND STATISTICS												
37	204	17	258	62	23	85	53	162	3	218	49	
DNBOUND STATISTICS												
37	246	18	301	53	27	80	56	198	3	257	42	
TOTAL												
74	450	35	559	115	50	165	109	360	6	475	92	
SMITHLAND LOCK & DAM												
UPBOUND STATISTICS												
195	5	20	220	1071	580	1651	208	4	0	212	938	
DNBOUND STATISTICS												
830	37	30	897	770	8138	8908	848	26	0	874	12238	
TOTAL												
1025	42	50	1117	1841	8718	10559	1056	30	0	1086	13177	
SMITHLAND LOCK & DAM AUX 1												
UPBOUND STATISTICS												
776	10	45	831	6303	2503	8806	797	7	4	808	3924	
DNBOUND STATISTICS												
167	33	13	213	272	1474	1746	177	29	3	209	2217	
TOTAL												
943	43	58	1044	6575	3977	10552	974	36	7	1017	6142	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	10/85			11/85			12/85			ALL TIMES EXPRESSED IN MINUTES						
			MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	DELATED TOWS	DELAY TIME TOWS	DELAY AVG TOWS	DELAY MAX (ALL VSLs)			
GREEN/BARREN RIVER																		
LOCK & DAM 1			1	4	16	1	2	15	1	6	25	1	4	17	90	1745	1.9	60
LOCK & DAM 2			1	5	25	1	3	15	1	12	50	1	4	60	71	2096	3.3	255
OHIO RIVER																		
MARKLAND LOCKS & DAM			1	21	165	1	9	30	5	13	35	2	9	33	588	47661	43.2	780
MARKLAND LOCKS & DAM AUX 1			1	11	60	1	3	18	9	12	32	1	5	18	9	296	3.7	73
MCALPINE LOCKS & DAM			1	17	78	1	9	30	5	11	32	1	8	50	843	76623	57.5	550
MCALPINE LOCKS & DAM AUX 1			NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 52			1	4	128	1	4	35	1	5	57	1	6	51	408	558553	274.0	3830
LOCK & DAM 52 AUX 1			1	11	185	1	13	65	5	19	58	1	14	60	213	148656	604.2	3295
CANNELTON LOCK & DAM			1	22	60	1	8	35	5	11	50	1	8	30	775	71602	58.3	1572
CANNELTON LOCK & DAM AUX			1	13	60	1	8	30	5	12	50	1	13	55	51	22057	298.0	1140
NEWBURGH LOCK & DAM			1	16	60	1	9	30	5	7	22	1	12	38	754	39818	28.1	326
NEWBURGH LOCK & DAM AUX 1			1	8	31	1	3	20	5	7	13	1	5	25	12	211	1.5	51
UNIONTOWN LOCK & DAM			1	18	130	1	8	30	5	8	60	1	7	47	993	78250	47.7	590
UNIONTOWN LOCK & DAM AUX 1			1	5	50	1	2	29	5	9	20	1	2	32	9	152	2.0	33

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED		
			10/85	11/85	12/85
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	01-KENTUCKY LOCK		0600/0110/11.0		
	02-PICKWICK LANDING LOCK		1000/0110/11.0		
	02-PICKWICK LANDING LOCK AUX		0600/0110/11.0		
	03-WILSON LOCK		0600/0110/11.0		
	03-WILSON LOCK AUX		0292/0060/11.0		
	04-GEN JOS WHEELER LOCK		0600/0110/11.0		
	04-GEN JOS WHEELER LK	AUX1	0400/0060/11.0		
	05-GUNTERSVILLE LOCK		0600/0110/11.0		
	05-GUNTERSVILLE LOCK	AUX 1	0360/0060/11.0		
	06-NICKAJAC LOCK		0600/0119/11.0		
07-CHICKAMAUGA LOCK		0360/0060/11.0			
08-WATTS BAR LOCK		0360/0060/11.0			
09-FORT LOUDON LOCK		0360/0060/11.0			

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/85	11/85	12/85								
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)
CLINCH RIVER													
MELTON HILL LOCK		*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		1	5	0	6	2	1	3	1	4	4	9	0
DNBOUND STATISTICS		1	2	0	3	1	1	2	1	2	4	7	0
TOTAL		2	7	0	9	3	2	5	2	6	8	16	0
CUMBERLAND RIVER													
BARKLEY LOCK		*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		45	35	2	82	20	201	221	47	30	0	77	309
DNBOUND STATISTICS		68	16	1	85	419	21	440	78	10	1	89	27
TOTAL		113	51	3	167	439	222	661	125	40	1	166	336
CHEATHAM LOCK		*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		98	38	0	136	28	467	495	102	34	3	139	749
DNBOUND STATISTICS		95	37	1	133	471	54	525	99	31	2	132	69
TOTAL		193	75	1	269	499	521	1020	201	65	5	271	818
CORDELL HULL LOCK		*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		4	3	3	10	16	0	16	10	3	3	16	0
DNBOUND STATISTICS		7	3	0	10	0	17	17	7	3	2	12	24
TOTAL		11	6	3	20	16	17	33	17	6	5	28	24
OLD HICKORY LOCK		*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		23	144	6	173	3	37	40	29	95	4	128	61
DNBOUND STATISTICS		21	148	8	177	36	4	40	30	101	2	133	7
TOTAL		44	292	14	350	39	41	80	59	196	6	261	68
TENNESSEE RIVER													
KENTUCKY LOCK		*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		326	145	42	513	708	2238	2946	488	119	5	612	3313
DNBOUND STATISTICS		323	11	44	378	1831	1155	2986	519	14	5	538	1622
TOTAL		649	156	86	891	2539	3393	5932	1007	133	10	1150	4936

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED			TOWNS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
			10/85	11/85	12/85												
TENNESSEE RIVER																	
PICKWICK LANDING LOCK			*** ONLY FIRST AND SECOND MONTHS REPORTED														
	UPBOUND STATISTICS		187	203	14	404	56	1678	1734	217	137	4	358	2394			
	DNBOUND STATISTICS		211	21	7	239	1569	309	1878	260	20	3	283	442			
	TOTAL		398	224	21	643	1625	1987	3612	477	157	7	641	2836			
PICKWICK LANDING LOCK AUX			*** NO DATA RECORDED FOR THIS LOCK														
WILSON LOCK			*** ONLY FIRST AND SECOND MONTHS REPORTED														
	UPBOUND STATISTICS		93	74	46	213	156	520	676	144	66	10	220	752			
	DNBOUND STATISTICS		100	78	32	210	340	298	638	144	69	3	216	414			
	TOTAL		193	152	78	423	496	818	1314	288	135	13	436	1166			
WILSON LOCK AUX			*** NO DATA RECORDED FOR THIS LOCK														
GEN JOS WHEELER LOCK			*** ONLY FIRST AND SECOND MONTHS REPORTED														
	UPBOUND STATISTICS		67	23	3	93	114	389	503	91	25	4	120	575			
	DNBOUND STATISTICS		64	19	4	87	250	231	481	91	23	4	118	327			
	TOTAL		131	42	7	180	364	620	984	182	48	8	238	903			
GEN JOS WHEELER LK			AUX1	*** ONLY FIRST AND SECOND MONTHS REPORTED													
	UPBOUND STATISTICS		19	45	2	66	31	100	131	48	78	6	132	136			
	DNBOUND STATISTICS		14	56	1	71	54	49	103	27	85	5	117	64			
	TOTAL		33	101	3	137	85	149	234	75	163	11	249	200			
GUNTERSVILLE LOCK			*** ONLY FIRST AND SECOND MONTHS REPORTED														
	UPBOUND STATISTICS		87	174	0	261	219	395	614	101	133	4	238	580			
	DNBOUND STATISTICS		87	185	4	276	262	337	599	103	144	3	250	453			
	TOTAL		174	359	4	537	481	732	1213	204	277	7	488	1033			
GUNTERSVILLE LOCK			AUX 1	*** ONLY FIRST AND SECOND MONTHS REPORTED													
	UPBOUND STATISTICS		0	20	0	20	0	0	0	0	19	0	19	0			
	DNBOUND STATISTICS		0	15	0	15	0	0	0	0	14	0	14	0			
	TOTAL		0	35	0	35	0	0	0	0	33	0	33	0			
NICKANAC LOCK			*** ONLY FIRST AND SECOND MONTHS REPORTED														
	UPBOUND STATISTICS		98	118	5	221	262	409	671	117	83	2	202	540			
	DNBOUND STATISTICS		99	134	8	241	329	329	658	122	83	1	206	455			
	TOTAL		197	252	13	462	591	738	1329	239	166	3	408	996			

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER		MONTHS REPORTED									
				10/85	11/85	12/85							
RIVER/LOCK NAME		TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
		(NAV, OPN, ETC)											
TENNESSEE RIVER													
CHICKAMAUGA LOCK		*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		51	552	0	603	67	134	201	91	261	3	355	194
DNBOUND STATISTICS		47	550	6	603	105	98	203	91	284	10	385	140
TOTAL		98	1102	6	1206	172	232	404	182	545	13	740	335
WATTS BAR LOCK		*** ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS		33	159	1	193	74	43	117	53	171	11	235	84
DNBOUND STATISTICS		32	158	0	190	22	89	111	51	174	11	236	124
TOTAL		65	317	1	383	96	132	228	104	345	22	471	209
FORT LOUDON LOCK		***											
UPBOUND STATISTICS		23	123	1	147	11	38	49	34	86	2	122	77
DNBOUND STATISTICS		21	123	1	145	31	19	50	32	89	2	123	26
TOTAL		44	246	2	292	42	57	99	66	175	4	245	104

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED																		
			10/85	11/85	12/85																

													ALL TIMES EXPRESSED IN MINUTES								
			LOCK PROCESSING TIME (MIN.)																		
			APPROACH			ENTRY			CHAMBER			EXIT			:	DELAYED	DELAY	DELAY	DELAY		
			MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
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			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS
			TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:											

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED														
			10/85	11/85	12/85												
													ALL TIMES EXPRESSED IN MINUTES				
													DELAYED	DELAY	DELAY	DELAY	
													: TOWS	TIME	AVG	MAX	
													: TOWS	TOWS	TOWS	(ALL USLS)	
TENNESSEE RIVER																	
GUNTERSVILLE LOCK	AUX	1	7	16	2	3	8	9	12	22	1	3	6	0	0	0.0	35
NICKAJAC LOCK		1	8	37	1	9	37	1	14	74	1	10	74	43	1923	9.7	152
CHICKAMAUGA LOCK		1	4	121	1	6	40	9	12	34	1	6	50	36	5816	59.3	430
WATTS BAR LOCK		1	6	50	1	3	23	6	15	36	1	5	112	14	1563	24.0	402
FORT LOUDON LOCK		1	10	52	1	3	16	2	20	39	1	5	33	6	371	8.4	163

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC HA	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED		
			10/85	11/85	12/85
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	01-EMSWORTH LOCK & DAM		0600/0110/13.0		
	01-EMSWORTH LOCK & DAM AUX 1		0360/0056/13.0		
	02-DASHIELDS LOCK & DAM		0600/0110/13.0		
	02-DASHIELDS LOCK & DAM AUX 1		0360/0056/13.0		
	03-MONTGOMERY LOCK & DAM		0600/0110/13.0		
	03-MONTGOMERY LOCK & DAM AUX 1		0360/0056/13.0		
	04-NEW CUMBERLAND LOCK & DAM		1200/0110/13.0		
	04-NEW CUMBERLAND LK & DAM AUX 1		0600/0110/13.0		
	05-PIKE ISLAND LOCK & DAM		1200/0110/13.0		
	05-PIKE ISLAND LOCK & DAM AUX 1		0600/0110/13.0		
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 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/85		11/85		12/85					
ALLEGHENY RIVER												
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
LOCK & DAM 2												
	xxx											
UPBOUND STATISTICS	208	200	13	421	382	255	637	303	162	2	467	306
DNBOUND STATISTICS	209	196	14	419	276	381	657	314	150	2	466	213
TOTAL	417	396	27	840	658	636	1294	617	312	4	933	520
LOCK & DAM 3												
	xxx											
UPBOUND STATISTICS	211	91	17	319	393	260	653	322	87	5	414	323
DNBOUND STATISTICS	211	102	20	333	285	380	665	332	83	4	419	211
TOTAL	422	193	37	652	678	640	1318	654	170	9	833	535
LOCK & DAM 4												
	xxx											
UPBOUND STATISTICS	234	86	25	345	659	104	763	320	70	1	391	129
DNBOUND STATISTICS	244	97	16	357	100	680	780	318	74	1	393	337
TOTAL	478	183	41	702	759	784	1543	638	144	2	784	467
LOCK & DAM 5												
	xxx											
UPBOUND STATISTICS	176	75	6	257	616	16	632	193	62	1	256	8
DNBOUND STATISTICS	181	77	4	262	24	621	645	194	56	0	250	268
TOTAL	357	152	10	519	640	637	1277	387	118	1	506	276
LOCK & DAM 6												
	xxx											
UPBOUND STATISTICS	170	44	10	224	550	10	560	185	27	2	214	5
DNBOUND STATISTICS	177	44	4	225	39	535	574	187	24	1	212	228
TOTAL	347	88	14	449	589	545	1134	372	51	3	426	233
LOCK & DAM 7												
	xxx											
UPBOUND STATISTICS	12	45	3	60	16	2	18	16	26	1	43	2
DNBOUND STATISTICS	14	39	1	54	9	18	27	17	25	0	42	7
TOTAL	26	84	4	114	25	20	45	33	51	1	85	9
LOCK & DAM 8												
	xxx											
UPBOUND STATISTICS	98	26	3	127	98	0	98	106	21	1	128	0
DNBOUND STATISTICS	103	28	1	132	2	101	103	109	20	0	129	161
TOTAL	201	54	4	259	100	101	201	215	41	1	257	161
LOCK & DAM 9												
	xxx	ONLY FIRST MONTH REPROTED										
UPBOUND STATISTICS	0	23	0	23	0	0	0	5	19	0	24	0
DNBOUND STATISTICS	0	30	0	30	0	0	0	5	18	0	23	0
TOTAL	0	53	0	53	0	0	0	10	37	0	47	0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/85		11/85		12/85					

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

MONONGAHELA RIVER												
LOCK & DAM 2												
	XXX											
UPBOUND STATISTICS	443	6	30	479	1579	861	2440	472	5	4	481	1099
DNBOUND STATISTICS	423	6	32	461	501	1876	2377	465	6	5	476	2035
TOTAL	866	12	62	940	2080	2737	4817	937	11	9	957	3135
LOCK & DAM 2 AUX 1												
	XXX											
UPBOUND STATISTICS	82	51	36	169	29	98	127	118	46	3	167	75
DNBOUND STATISTICS	81	47	45	173	89	26	115	127	39	4	170	29
TOTAL	163	98	81	342	118	124	242	245	85	7	337	104
LOCK & DAM 3												
	XXX											
UPBOUND STATISTICS	586	1	29	616	2583	335	2918	607	0	1	608	395
DNBOUND STATISTICS	609	0	30	639	239	2657	2896	630	0	4	634	2719
TOTAL	1195	1	59	1255	2822	2992	5814	1237	0	5	1242	3115
LOCK & DAM 3 AUXILIARY 1												
	XXX											
UPBOUND STATISTICS	72	27	139	238	62	38	100	206	26	1	233	37
DNBOUND STATISTICS	91	30	100	221	52	99	151	187	25	4	216	101
TOTAL	163	57	239	459	114	137	251	393	51	5	449	139
LOCK & DAM 4												
	XXX											
UPBOUND STATISTICS	438	0	5	443	2242	196	2438	465	0	2	467	208
DNBOUND STATISTICS	434	0	5	439	118	2278	2396	492	0	2	494	2427
TOTAL	872	0	10	882	2360	2474	4834	957	0	4	961	2635
LOCK & DAM 4 AUXILIARY 1												
	XXX											
UPBOUND STATISTICS	38	28	37	103	54	10	64	77	27	3	107	10
DNBOUND STATISTICS	28	30	57	115	18	29	47	86	26	5	117	31
TOTAL	66	58	94	218	72	39	111	163	53	8	224	42
MAXWELL LOCK & DAM												
	XXX											
UPBOUND STATISTICS	317	36	7	360	1625	168	1793	323	30	1	354	179
DNBOUND STATISTICS	155	31	6	192	41	781	822	162	14	2	178	803
TOTAL	472	67	13	552	1666	949	2615	485	44	3	532	982
MAXWELL LOCK & DAM AUX 1												
	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	51	22	1	74	286	16	302	52	11	0	63	16
DNBOUND STATISTICS	209	35	4	248	31	1215	1246	211	15	0	226	1245
TOTAL	260	57	5	322	317	1231	1548	263	26	0	289	1261

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/85	11/85	12/85								
RIVER/LOCK NAME		TONS	VESSL RECR TN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECR TN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
MONONGAHELA RIVER													
LOCK & DAM 7		XXX											
UPBOUND STATISTICS		363	16	26	405	1569	143	1712	680	21	7	708	163
DNBOUND STATISTICS		350	15	28	393	37	1628	1665	675	16	9	700	1642
TOTAL		713	31	54	798	1606	1771	3377	1355	37	16	1408	1805
LOCK & DAM 8		XXX											
UPBOUND STATISTICS		321	12	19	352	1314	142	1456	603	15	3	621	159
DNBOUND STATISTICS		310	9	28	347	36	1374	1410	593	12	3	608	1388
TOTAL		631	21	47	699	1350	1516	2866	1196	27	6	1229	1547
MORGANTOWN LOCK & DAM		XXX											
UPBOUND STATISTICS		77	10	12	99	304	0	304	90	9	0	99	0
DNBOUND STATISTICS		71	11	14	96	1	286	287	85	10	2	97	296
TOTAL		148	21	26	195	305	286	591	175	19	2	196	296
HILDEBRAND LOCK & DAM		XXX											
UPBOUND STATISTICS		35	8	8	51	157	0	157	43	7	0	50	0
DNBOUND STATISTICS		36	15	5	56	0	147	147	41	12	1	54	157
TOTAL		71	23	13	107	157	147	304	84	19	1	104	157
OPEKISKA LOCK & DAM		XXX											
UPBOUND STATISTICS		18	10	5	33	62	0	62	22	9	1	32	0
DNBOUND STATISTICS		17	11	4	32	1	57	58	21	10	1	32	57
TOTAL		35	21	9	65	63	57	120	43	19	2	64	57
OHIO RIVER													
EMSWORTH LOCK & DAM		XXX											
UPBOUND STATISTICS		473	2	27	502	1196	1571	2767	551	1	4	556	1910
DNBOUND STATISTICS		448	4	28	480	1067	1607	2674	531	3	4	538	1825
TOTAL		921	6	55	982	2263	3178	5441	1082	4	8	1094	3735
EMSWORTH LOCK & DAM AUX 1		XXX											
UPBOUND STATISTICS		113	44	62	219	61	92	153	194	34	7	235	96
DNBOUND STATISTICS		121	67	84	272	129	45	174	221	52	11	284	48
TOTAL		234	111	146	491	190	137	327	415	86	18	519	145

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/85			11/85			12/85			

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

OHIO RIVER												
DASHIELDS LOCK & DAM												
	XXX											
UPBOUND STATISTICS	431	1	17	449	1157	1775	2932	515	0	2	517	2085
DNBOUND STATISTICS	417	0	5	422	1297	1594	2891	491	0	2	493	1815
TOTAL	848	1	22	871	2454	3369	5823	1006	0	4	1010	3900
DASHIELDS LOCK & DAM AUX 1												
	XXX											
UPBOUND STATISTICS	113	35	64	212	91	57	148	183	27	2	212	61
DNBOUND STATISTICS	103	45	101	249	66	72	138	206	37	2	245	69
TOTAL	216	80	165	461	157	129	286	389	64	4	457	131
MONTGOMERY LOCK & DAM												
	XXX											
UPBOUND STATISTICS	446	0	29	475	1191	1942	3133	572	0	0	572	2439
DNBOUND STATISTICS	436	1	27	464	1466	1597	3063	544	1	1	546	1839
TOTAL	882	1	56	939	2657	3539	6196	1116	1	1	1118	4279
MONTGOMERY LOCK & DAM AUX 1												
	XXX											
UPBOUND STATISTICS	66	30	64	160	47	32	79	133	25	2	160	32
DNBOUND STATISTICS	66	33	64	163	49	31	80	134	30	2	166	32
TOTAL	132	63	128	323	96	63	159	267	55	4	326	65
NEW CUMBERLAND LOCK & DAM												
	XXX											
UPBOUND STATISTICS	328	0	13	341	320	2696	3016	332	0	0	332	3860
DNBOUND STATISTICS	286	2	7	295	1887	920	2807	289	2	0	291	1136
TOTAL	614	2	20	636	2207	3616	5823	621	2	0	623	4996
NEW CUMBERLAND LK & DAM AUX 1												
	XXX											
UPBOUND STATISTICS	133	24	46	203	163	295	458	183	21	1	205	302
DNBOUND STATISTICS	154	33	57	244	362	126	488	211	31	1	243	146
TOTAL	287	57	103	447	525	421	946	394	52	2	448	448
PIKE ISLAND LOCK & DAM												
	XXX											
UPBOUND STATISTICS	373	7	15	395	338	3305	3643	379	4	1	384	4700
DNBOUND STATISTICS	344	7	5	360	2255	1206	3461	351	5	0	356	1575
TOTAL	717	14	20	755	2593	4511	7104	730	9	1	740	6275
PIKE ISLAND LOCK & DAM AUX 1												
	XXX											
UPBOUND STATISTICS	115	18	45	179	181	121	302	164	16	2	162	163
DNBOUND STATISTICS	126	14	51	191	211	161	372	182	11	3	196	168
TOTAL	241	32	97	370	392	282	674	346	27	5	378	332

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			10/85	11/85	12/85									
RIVER/LOCK NAME			TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
OHIO RIVER														
HANNUBAL LOCKS & DAM			XXX											
	UPBOUND STATISTICS		381	1	12	394	881	3033	3914	393	0	0	393	4170
	DNBOUND STATISTICS		363	3	20	386	1684	2099	3783	384	2	1	387	2791
	TOTAL		744	4	32	780	2565	5132	7697	777	2	1	780	6961
HANNUBAL LOCKS & DAM AUX 1			XXX											
	UPBOUND STATISTICS		54	12	15	81	45	82	127	71	10	5	86	62
	DNBOUND STATISTICS		59	21	14	94	92	43	135	77	19	3	99	28
	TOTAL		113	33	29	175	137	125	262	148	29	8	185	91

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC HA	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED																										
			10/85			11/85			12/85																				
														ALL TIMES EXPRESSED IN MINUTES															
														LOCK PROCESSING TIME (MIN.)															
														APPROACH	ENTRY		CHAMBER			EXIT		DELAYED	DELAY	DELAY	DELAY				
														MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	TOWS	TIME	AVG	MAX
														: TOWS TOWS TOWS (ALL VSLS)															
ALLEGHENY RIVER																													
LOCK & DAM 2	1	5	35	1	5	19	5	7	12	1	6	57	113	5681	13.6	660													
LOCK & DAM 3	1	7	45	1	4	24	5	8	45	1	6	73	106	5278	12.5	235													
LOCK & DAM 4	1	6	64	1	4	22	5	7	19	1	6	47	96	2907	6.0	155													
LOCK & DAM 5	1	6	20	1	4	15	5	8	10	1	4	20	39	273	0.7	17													
LOCK & DAM 6	2	4	8	3	4	5	5	7	8	1	4	10	29	275	0.7	23													
LOCK & DAM 7	2	3	10	1	3	5	5	7	8	1	3	8	2	17	0.6	18													
LOCK & DAM 8	1	5	15	1	4	5	5	8	18	1	4	5	6	56	0.2	18													
LOCK & DAM 9	1	3	10	1	1	6	7	9	10	1	1	4	0	0	0.0	11													
MONONGAHELA RIVER																													
LOCK & DAM 2	1	12	48	1	5	51	5	11	42	1	6	59	300	11362	13.1	600													
LOCK & DAM 2 AUX 1	1	8	30	1	2	13	5	6	10	1	2	12	13	207	1.2	44													
LOCK & DAM 3	1	11	47	2	5	21	7	9	20	2	6	17	487	18316	15.3	180													
LOCK & DAM 3 AUXILIARY 1	1	7	30	1	2	12	6	7	17	1	3	15	19	249	1.5	36													
LOCK & DAM 4	1	11	42	1	7	19	1	10	21	1	8	41	342	16639	19.0	228													

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED													
			10/85	11/85	12/85											
					ALL TIMES EXPRESSED IN MINUTES											
			LOCK PROCESSING TIME (MIN.)			:	DELAYED	DELAY	DELAY	DELAY						
			APPROACH	ENTRY	CHAMBER	EXIT	: TOWS	TIME	AVG	MAX						
			MIN AVG MAX	: MIN AVG MAX	: MIN AVG MAX	: MIN AVG MAX	:	TOWS	TOWS	(ALL VSLS)						

MONONGAHELA RIVER																
LOCK & DAM 4 AUXILIARY 1	1	10	47	1	2	11	6	9	14	1	4	17	2	43	0.6	65
MAXWELL LOCK & DAM	1	10	52	2	7	24	6	11	37	2	8	25	102	2254	4.7	95
MAXWELL LOCK & DAM AUX 1	1	12	33	1	7	19	7	11	33	1	9	32	25	385	1.4	47
LOCK & DAM 7	1	5	32	1	5	25	5	6	37	1	10	30	423	30218	42.3	479
LOCK & DAM 8	1	5	40	1	4	17	5	6	45	1	9	55	267	11170	17.7	189
MORGANTOWN LOCK & DAM	2	5	20	2	5	11	9	10	15	2	5	15	2	20	0.1	15
HILDEBRAND LOCK & DAM	2	7	23	1	3	17	5	15	42	2	4	10	5	152	2.1	48
OPEKISKA LOCK & DAM	2	6	23	1	3	10	10	11	20	2	4	14	0	0	0.0	0
OHIO RIVER																
ENSWORTH LOCK & DAM	1	12	55	1	6	65	8	13	43	2	9	60	374	20445	22.1	324
ENSWORTH LOCK & DAM AUX 1	1	8	50	1	3	10	5	8	20	2	3	10	16	397	1.6	48
DASHIELDS LOCK & DAM	1	15	70	1	9	34	5	11	37	2	12	72	312	18308	21.5	302
DASHIELDS LOCK & DAM AUX 1	1	10	48	1	3	12	5	6	24	1	3	23	23	395	1.8	600
MONTGOMERY LOCK & DAM	1	11	65	1	10	37	5	13	49	2	14	105	426	32050	36.3	515

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
			10/85	11/85	12/85
K3	JACKSONVILLE	SOUTH ATLANTIC			

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
CROSS FLA BRG CNL	11-HENRY HOLLAND BUCKMAN LOCK	0600/0084/15.0
	12-EUREKA LOCK	0600/0084/15.0
	13-INGLIS LOCK	0600/0084/15.0
CANAVERAL HARBOR	21-CANAVERAL LOCK	0600/0090/15.0
	01-ST LUCIE LOCK & DAM	0250/0050/14.0
OKEECHOBEE WATRWAY	02-MOORE HAVEN LOCK	0250/0050/11.0
	03-ORTONA LOCK & DAM	0250/0050/12.0
	04-W P FRANKLIN LCK & CTRL STRCT	0400/0056/14.0
	05-PORT MAYACA LOCK	0400/0056/14.0
OKLAHAMA RIVER	31-MOSS BLUFF LOCK & DAM	0156/0030/55.0

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC 45	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED		
			10/85	11/85	12/85
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		
BLKWAR/TOMBIGBEE RI	01-COFFEEVILLE LOCK		0600/0110/12.0		
	02-DEMOPOLIS LOCK & DAM		0600/0110/12.0		
	03-WARRIOR LOCK & DAM		0600/0110/12.0		
	04-WILLIAM BACON OLIVER LK & DM		0460/0095/12.0		
	05-HOLT LOCK & DAM		0600/0110/12.0		
	06-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		
	45-LOCK A		0600/0110/12.0		
	46-LOCK B		0600/0110/12.0		
	47-LOCK C		0600/0110/12.0		
	48-LOCK D		0600/0110/12.0		
	49-LOCK E		0600/0110/12.0		
	50-BAY SPRINGS		0600/0110/12.0		

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K6	SAVANNAH	SOUTH ATLANTIC	10/85	11/85	12/85

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

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K7	WILMINGTON	SOUTH ATLANTIC	10/85	11/85	12/85

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

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILMINGTON	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED									
			10/85	11/85	12/85							
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
CAPE FEAR RIVER												
LOCK & DAM 1	XXX											
UPBOUND STATISTICS	11	0	0	11	0	11	11	22	0	1	23	12
DNBOUND STATISTICS	11	2	0	13	11	0	11	23	1	0	24	0
TOTAL	22	2	0	24	11	11	22	45	1	1	47	12
LOCK & DAM 2	XXX											
UPBOUND STATISTICS	11	0	0	11	0	11	11	21	0	0	21	11
DNBOUND STATISTICS	11	2	0	13	11	0	11	22	1	0	23	0
TOTAL	22	2	0	24	11	11	22	43	1	0	44	11
WILLIAM O HUSKE LOCK & DAM	XXX											
UPBOUND STATISTICS	11	0	0	11	0	11	11	11	0	0	11	10
DNBOUND STATISTICS	11	2	0	13	11	0	11	11	1	0	12	0
TOTAL	22	2	0	24	11	11	22	22	1	0	23	10

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILKINGTON	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED													
			10/85	11/85	12/85											

LOCK PROCESSING TIME (MIN.)																
			ALL TIMES EXPRESSED IN MINUTES													
			APPROACH	LOCK PROCESSING TIME (MIN.)	: DELAYED DELAY DELAY DELAY											
			ENTRY CHAMBER EXIT	: TONS TIME AVG MAX	: TONS TONS (ALL VSLs)											
			MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :													

CAPE FEAR RIVER																
LOCK & DAM 1	5	5	10	5	5	10	5	13	15	5	5	15	3	15	0.6	5
LOCK & DAM 2	5	5	5	5	5	5	5	11	25	5	7	15	22	230	10.4	125
WILLIAM O HUSKE LOCK & DAM	5	5	5	5	5	5	25	25	25	5	5	5	22	108	4.9	5

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
L2	SACRAMENTO	SOUTH PACIFIC	10/85	11/85	12/85

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
SCRNNT0 DWSHP CHNL	01-BARGE CANAL LOCK	0640/0086/23.0

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 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H3	GALVESTON	SOUTHWESTERN	10/85	11/85	12/85

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

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC M3	DISTRICT NAME GALVESTON	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED									
			10/85		11/85		12/85					
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
GULF INTRACOASTAL												
COLORADO RIVER EAST LOCK	XXX											
UPBOUND STATISTICS	985	1060	143	2188	634	1486	2120	280	0	795	1075	3406
DNBOUND STATISTICS	1003	1020	108	2131	1298	736	2034	188	0	884	1072	1406
TOTAL	1988	2080	251	4319	1932	2222	4154	468	0	1679	2147	4812
COLORADO RIVER WEST LOCK	XXX											
UPBOUND STATISTICS	958	2268	170	3396	605	1481	2086	175	7	885	1067	3408
DNBOUND STATISTICS	977	2377	136	3490	1305	685	1990	155	6	896	1057	1338
TOTAL	1935	4645	306	6886	1910	2166	4076	330	13	1781	2124	4747
BRAZOS EAST GATE	XXX											
UPBOUND STATISTICS	1182	175	381	1738	535	1467	2002	3	0	1209	1212	3078
DNBOUND STATISTICS	1227	276	366	1869	1357	815	2172	4	0	1252	1256	1436
TOTAL	2409	451	747	3607	1892	2282	4174	7	0	2461	2468	4515
BRAZOS WEST GATE	XXX											
UPBOUND STATISTICS	1155	283	312	1750	568	1445	2013	6	0	1167	1173	3019
DNBOUND STATISTICS	1200	306	353	1859	1310	800	2110	3	1	1220	1224	1443
TOTAL	2355	589	665	3609	1878	2245	4123	9	1	2387	2397	4462

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC #3	DISTRICT NAME GALVESTON	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED													
			10/85	11/85	12/85											
						ALL TIMES EXPRESSED IN MINUTES										
						LOCK PROCESSING TIME (MIN.)										
						: DELAYED DELAY DELAY DELAY										
						: TOWS TIME AVG MAX										
						: TOWS TOWS (ALL VSLS)										
						: TOWS TOWS (ALL VSLS)										
GULF INTRACOASTAL																
COLORADO RIVER EAST LOCK	1	1	17	1	1	21	1	4	60	1	1	62	1988	3956	1.9	18
COLORADO RIVER WEST LOCK	1	2	13	1	1	12	1	3	58	1	1	32	1933	3606	1.8	13
BRAZOS EAST GATE	1	1	20	1	1	37	1	0	3	1	1	61	2400	4968	2.0	555
BRAZOS WEST GATE	1	1	63	1	1	14	1	0	3	1	1	61	2348	5028	2.1	600

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
			10/85	11/85	12/85

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

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED									
			10/85			11/85			12/85			
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
ARKANSAS RIVER												
NORRELL LOCK & DAM	XXX											
UPBOUND STATISTICS	148	16	49	213	325	312	637	124	14	78	216	421
DNBOUND STATISTICS	146	22	34	202	94	477	571	111	21	78	210	691
TOTAL	294	38	83	415	419	789	1208	235	35	156	426	1112
LOCK & DAM 2	XXX											
UPBOUND STATISTICS	144	23	27	194	327	278	605	169	19	23	211	407
DNBOUND STATISTICS	149	27	15	191	105	488	593	163	23	15	201	691
TOTAL	293	50	42	385	432	766	1198	332	42	38	412	1098
LOCK & DAM 3	XXX											
UPBOUND STATISTICS	123	35	19	177	278	356	634	135	26	31	192	397
DNBOUND STATISTICS	127	39	16	182	100	443	543	142	30	30	202	615
TOTAL	250	74	35	359	378	799	1177	277	56	61	394	1013
LOCK & DAM 4	XXX											
UPBOUND STATISTICS	117	31	21	169	270	300	570	130	23	30	183	398
DNBOUND STATISTICS	131	33	15	179	100	446	546	148	26	22	196	625
TOTAL	248	64	36	348	370	746	1116	278	49	52	379	1023
LOCK & DAM 5	XXX											
UPBOUND STATISTICS	106	57	10	173	199	265	464	113	39	11	163	430
DNBOUND STATISTICS	120	62	6	188	101	371	472	126	48	12	186	611
TOTAL	226	119	16	361	300	636	936	239	87	23	349	1042
DAVID D TERRY LOCK & DAM	XXX											
UPBOUND STATISTICS	110	125	10	245	212	261	473	115	69	7	191	356
DNBOUND STATISTICS	122	131	10	263	98	378	476	132	73	8	213	619
TOTAL	232	256	20	508	310	639	949	247	142	15	404	975
MURRAY LOCK & DAM	XXX											
UPBOUND STATISTICS	79	162	8	249	142	208	350	87	64	7	158	287
DNBOUND STATISTICS	89	154	7	250	83	290	373	99	84	7	190	511
TOTAL	168	316	15	499	225	498	723	186	148	14	348	799
TOAD SUCK FERRY LOCK & DAM	XXX											
UPBOUND STATISTICS	77	27	4	108	138	202	340	82	25	8	115	265
DNBOUND STATISTICS	91	36	3	130	79	307	386	97	30	11	138	519
TOTAL	168	63	7	238	217	509	726	179	55	19	253	785

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED											
			10/85			11/85			12/85					
RIVER/LOCK NAME			TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
			(NAV, OPN, ETC)											
ARKANSAS RIVER														
LOCK & DAM 9			XXX											
UPBOUND STATISTICS			75	14	2	91	137	206	343	77	14	22	113	297
DNBOUND STATISTICS			85	22	3	110	78	297	375	91	15	22	128	515
TOTAL			160	36	5	201	215	503	718	168	29	44	241	813
DARDANELLE LOCK & DAM			XXX											
UPBOUND STATISTICS			89	21	8	118	151	209	360	94	16	8	118	294
DNBOUND STATISTICS			90	23	14	127	75	289	364	105	17	8	130	508
TOTAL			179	44	22	245	226	498	724	199	33	16	248	802
OZARK LOCK & DAM			XXX											
UPBOUND STATISTICS			82	8	4	94	142	214	356	87	7	9	103	295
DNBOUND STATISTICS			86	10	5	101	70	282	352	95	10	11	116	504
TOTAL			168	18	9	195	212	496	708	182	17	20	219	800
LOCK & DAM 13			XXX											
UPBOUND STATISTICS			168	12	9	189	149	360	509	176	10	18	204	368
DNBOUND STATISTICS			170	18	13	201	215	287	502	181	12	20	213	494
TOTAL			338	30	22	390	364	647	1011	357	22	38	417	863

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED			ALL TIMES EXPRESSED IN MINUTES												
			10/85	11/85	12/85	LOCK PROCESSING TIME (MIN.)			EXIT			DELATED	DELAY	DELAY	DELAY			
			APPROACH			ENTRY			CHAMBER			EXIT			TOWS	TIME	AVG	MAX
			MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	TOWS	TOWS	TOWS	MAX
			(ALL USLS)															
ARKANSAS RIVER																		
NORRELL LOCK & DAM	1	7	80	1	6	35	1	7	20	1	6	35	13	359	1.2	70		
LOCK & DAM 2	1	8	30	1	8	38	1	10	25	1	9	55	40	1369	4.6	138		
LOCK & DAM 3	1	8	60	1	7	30	5	9	60	1	7	35	22	448	1.7	70		
LOCK & DAM 4	1	9	45	1	6	36	5	9	55	1	8	77	28	675	2.7	48		
LOCK & DAM 5	1	9	53	1	7	33	5	10	31	1	9	37	59	688	3.0	44		
DAVID O TERRY LOCK & DAM	1	9	44	1	7	40	2	11	347	1	8	101	23	1502	6.4	394		
MURRAY LOCK & DAM	1	8	47	1	6	30	5	9	36	1	7	41	17	639	3.8	155		
TOAD SUCK FERRY LOCK & DAM	1	8	45	1	7	39	5	9	27	1	8	30	43	563	3.3	55		
LOCK & DAM 9	1	12	32	1	9	51	6	11	43	1	9	33	19	258	1.6	64		
DARDANELLE LOCK & DAM	1	12	39	1	7	33	5	13	30	1	7	33	150	1148	6.4	54		
OZARK LOCK & DAM	2	11	30	2	10	65	5	12	40	3	10	40	136	1335	7.9	65		
LOCK & DAM 13	1	7	30	1	7	32	5	11	265	2	9	210	63	1656	4.8	82		

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/85 THROUGH 12/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
MS	TULSA	SOUTHWESTERN	10/85	11/85	12/85

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

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/85 THROUGH 12/85
INSTITUTE FOR WATER RESOURCES

EROC #5	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED									
			10/85	11/85	12/85							

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

ARKANSAS RIVER												
W D MAYO LOCK & DAM	XXX											
UPBOUND STATISTICS	81	28	12	121	150	202	352	86	13	4	103	274
DNBOUND STATISTICS	83	26	15	124	65	259	324	94	11	5	110	524
TOTAL	164	54	27	245	215	461	676	180	24	9	213	798
ROBERT S KERR LOCK & DAM & RES	XXX											
UPBOUND STATISTICS	81	23	8	112	146	194	340	86	20	4	110	274
DNBOUND STATISTICS	82	26	10	118	67	261	328	93	22	5	120	466
TOTAL	163	49	18	230	213	455	668	179	42	9	230	740
WEBBERS FALLS LOCK & DAM	XXX											
UPBOUND STATISTICS	75	12	6	93	125	185	310	79	12	7	98	266
DNBOUND STATISTICS	81	13	4	98	85	230	315	87	13	7	107	416
TOTAL	156	25	10	191	210	415	625	166	25	14	205	682
CHOUTEAU LOCK & DAM	XXX											
UPBOUND STATISTICS	76	4	7	87	142	127	269	82	3	4	89	178
DNBOUND STATISTICS	78	6	3	87	66	210	276	83	4	6	93	393
TOTAL	154	10	10	174	208	337	545	165	7	10	182	571
NEWT GRAHAM LOCK & DAM	XXX											
UPBOUND STATISTICS	75	6	4	85	135	127	262	78	4	3	85	176
DNBOUND STATISTICS	77	8	5	90	70	213	283	82	5	3	90	377
TOTAL	152	14	9	175	205	340	545	160	9	6	175	554

Appendix B

Glossary

Draft: This is not a physical lock dimension. It is compared with new data before it is 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 a 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

1-87

DTIC