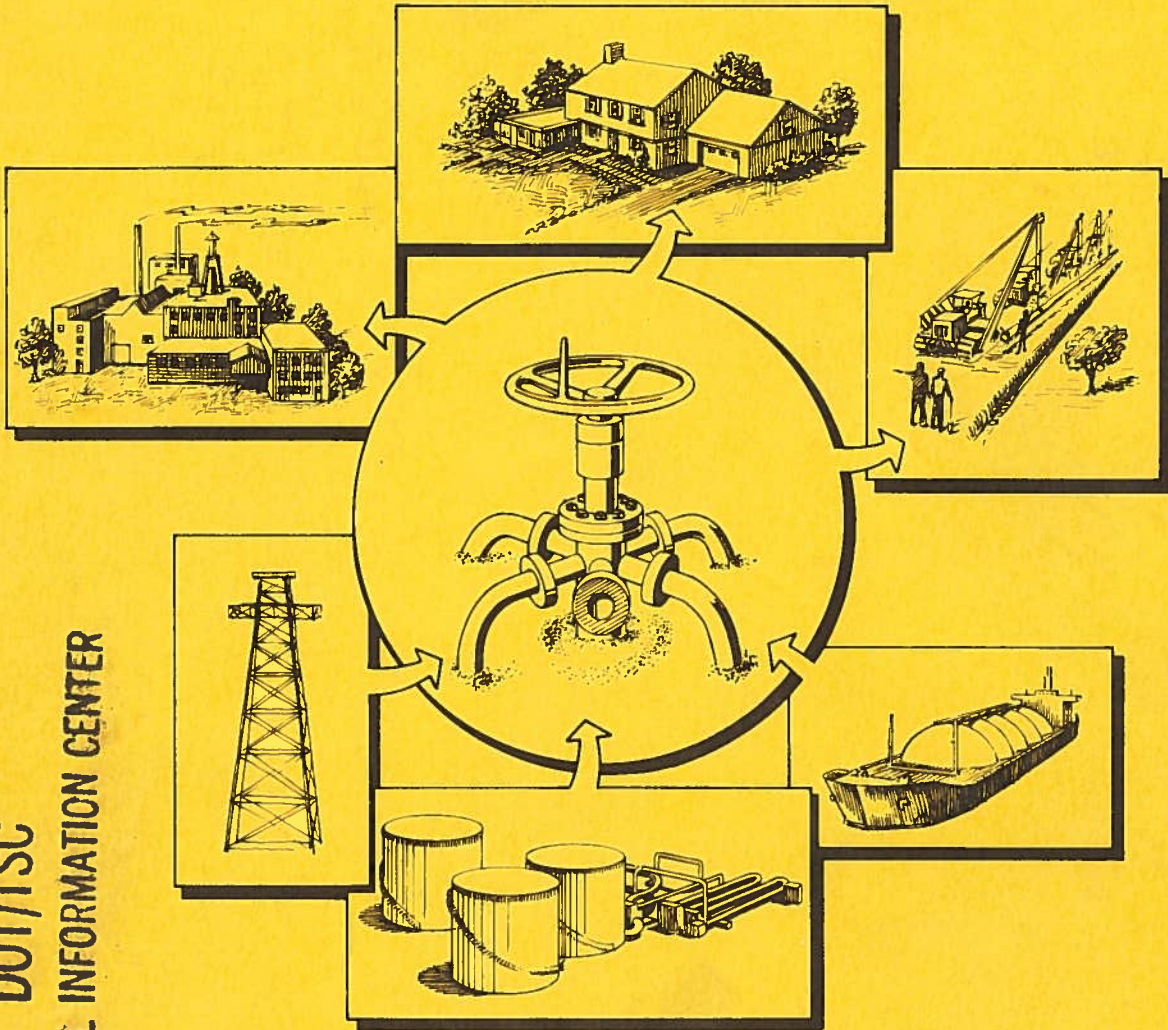


Natural Gas Pipeline Statistics



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April 1980
Annual Report for 1978

Prepared by
Research and Special Programs Administration
Transportation Systems Center
Transportation Information Division
Statistical Information Reporting Branch
Kendall Sq., Cambridge MA 02142

Natural Gas Pipeline Statistics

Compiled from forms
DOT F 7100.1-1 and/or Dot F 7100.2-1



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Prepared for

**U.S. DEPARTMENT OF TRANSPORTATION
Research and Special Programs Administration
Materials Transportation Bureau
Office of Program Support
Safety Data Management Branch
Washington D.C. 20590**

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16. Abstract <p>Federal regulation CFR 49, part 191 requires that all gas pipeline operators file annual reports with the U.S. DOT's Materials Transportation Bureau. These reports contain a wide range of safety and operational data involving the transportation of natural gas by pipeline. The data include such items as leaks, accidents, property damage, type and miles of pipe installed and in service, etc. A prescribed set of forms (DOT F 7100.1-1 and DOT F 7100.2-1) are used for this reporting requirement. The information tabulated in this annual publication is based on forms submitted in 1978 and is divided into three major sections: historical, national, and state/regional summary data. The historical section contains tables and charts useful in computing trend analysis of the pipeline industry. Information such as: miles of pipeline installed, retired, inspected, cathodically protected and in service; number of personal injuries and the amount of property damage; number of leaks repaired by cause, etc., for the years 1970 through 1978 are included.</p> <p>The national and state/regional sections contain only 1978 information as reported on the 1978 annual forms. The leak, pipeline protection, and pipeline description data cover the decades from 1930 to the reporting year, as well as pre-1930 data, while the remaining information reported is for 1978.</p>					
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FOREWORD

The "Natural Gas Pipeline Statistics" report is a new publication produced by the Transportation Systems Center (TSC) for the Materials Transportation Bureau (MTB). Both organizations are part of the U.S. Department of Transportation's (DOT) Research and Special Programs Administration (RSPA). The report was developed to provide DOT and the transportation community with the latest annual data as reported by over 2,300 gas pipeline operators.

This annual report contains gas pipeline data abstracted from information which must be filed annually by all gas pipeline distribution companies using form DOT F 7100.1-1, and all gas transmission and gathering line companies using form DOT F 7100.2-1. The data are presented in three sections: historical, national, and state/regional. In addition, tables and charts are included for maximum utilization and statistical analysis of the data.

In order to improve the usefulness, timeliness, and relevance of future editions of this report, readers are encouraged to communicate with Mr. William Gay of my staff at 617/494-2192 with any comments or suggestions.



F. J. Carroll
Statistical Information Reporting Branch
Transportation Information Division
Transportation Systems Center

TABLE OF CONTENTS

INTRODUCTION

1.0	HISTORICAL TRENDS	1-1
1.1	Distribution Systems	1-3
1.2	Transmission/Gathering Systems	1-19
2.0	NATIONAL SUMMARIES	2-1
2.1	Distribution Systems	2-3
2.2	Transmission/Gathering Systems	2-19
3.0	STATE AND REGIONAL SUMMARIES	3-1
3.1	Eastern Region	3-3
3.1.1	Distribution Systems	3-5
3.1.2	Transmission/Gathering Systems	3-113
3.2	Southern Region	3-193
3.2.1	Distribution Systems	3-195
3.2.2	Transmission/Gathering Systems	3-261
3.3	Central Region	3-317
3.3.1	Distribution Systems	3-319
3.3.2	Transmission/Gathering Systems	3-399
3.4	Southwest Region	3-467
3.4.1	Distribution Systems	3-469
3.4.2	Transmission/Gathering Systems	3-513
3.5	Western Region	3-551
3.5.1	Distribution Systems	3-553
3.5.2	Transmission/Gathering Systems	3-661
APPENDIX A - Annual Report Forms		A - 1
APPENDIX B - Map of MTB Regional Boundaries		B - 1
APPENDIX C - Glossary		C - 1

LIST OF FIGURES

Figure		Page
1	Distribution Mains Cathodically Protected as Reported on DOT F 7100.1-1	1-6
2	Distribution Mains as Reported on DOT F 7100.1-1	1-8
3	Distribution Services as Reported on DOT F 7100.1-1	1-9
4	Percentage of Distribution System Leaks Repaired by Cause DOT F 7100.1-1	1-11
5	Distribution System as Reported on DOT F 7100.1-1	1-13
6	Distribution System Fatalities as Reported on DOT F 7100.1-1	1-15
7	Distribution System Injuries as Reported on DOT F 7100.1-1	1-16
8	Distribution System Property Damage as Reported on DOT F 7100.1-1	1-18
9	Transmission/Gathering Cathodically Protected Lines as Reported on DOT F 7100.2-1	1-22
10	Transmission System as Reported on DOT F 7100.2-1	1-24
11	Gathering System as Reported on DOT F 7100.2-1	1-25
12	Percentage of Transmission/Gathering Systems Leaks Repaired by Cause DOT F 7100.2-1	1-27
13	Transmission/Gathering Systems as Reported on DOT F 7100.2-1	1-29
14	Transmission/Gathering Systems Fatalities as Reported on DOT F 7100.2-1	1-31
15	Transmission/Gathering Systems Injuries as Reported on DOT F 7100.2-1	1-32
16	Transmission/Gathering Systems Property Damage as Reported on DOT F 7100.2-1	1-34
17	Miles of Cathodically Protected Mains-Distribution Systems by Region (DOT F 7100.1-1)	2-12
18	Distribution Mains Installed-National Total-1978 (DOT F 7100.1-1)	2-13

INTRODUCTION

The "Natural Gas Pipeline Statistics" report has been developed to provide the U.S. Department of Transportation (DOT) and the transportation community with safety and operational statistics involving the nation's gas pipeline system. The data published in this report have been extracted from the Pipeline Information Reporting System developed by the Transportation Systems Center (TSC) for the Materials Transportation Bureau (MTB). The MTB has overall responsibility for the safe transportation of hazardous materials including the operation of natural gas pipelines.

Federal regulation CRF 49, part 191 requires that the 2,300 or more gas pipeline operators file annual reports containing data on accidents, leaks, property damage, type and miles of pipeline installed and in service, etc. A prescribed set of forms are used to satisfy these requirements. Natural gas pipeline distribution operators must file annual form DOT F 7100.1-1, while gas transmission and gathering line operators must file annual form DOT F 7100.2-1 (shown in Appendix A).

The forms are sent to the MTB's Safety Data Management Branch in Washington, DC, where they are assigned an operator's identification number, validated, and forwarded to TSC in Cambridge, Massachusetts. TSC enters the data into its computerized data base to be processed, analyzed, and stored in the Pipeline Information Reporting System. The information is then abstracted from this system and used to generate the "Natural Gas Pipeline Statistics" report.

The tabulated data in this report are divided into the three major sections containing historical, national, and state/regional summary data.

The historical section contains tables and charts useful in computing trend analysis of the pipeline industry. Information such as: miles of pipeline installed, retired, inspected, cathodically protected and in service; number of personal injuries and the amount of property damage; number of leaks repaired by cause, etc., for the years 1970 through 1978 are included.

The national and state/regional sections contain only 1978 information as reported on the 1978 annual forms. The leak, pipeline protection, and pipeline description data cover the decades from 1930 to the reporting year, as well as pre-1930 data, while the remaining information reported is for 1978.

Note: Due to the method in which the computer generated tables were structured in the national and states/regional sections, it was necessary to assign numeric values to the MTB regions as shown on map in appendix B on page B-1.

1.0 HISTORICAL TRENDS

I.1 DISTRIBUTION SYSTEMS

- 0 SINCE 1973, MILES OF CATHODICALLY PROTECTED PIPELINES HAVE INCREASED STEADILY. 269,230 MILES IN 1973 TO 442,500 MILES IN 1978 -- A 64.4% INCREASE.
- 0 MILES OF MAINS AND SERVICES INSTALLED CONTINUE TO RISE -- MAINS INCREASED 11.5% WHILE THE NUMBER OF SERVICES INCREASED 10.7% IN 1978 WHEN COMPARED WITH 1977.
- 0 CORROSION IS THE LEADING CAUSE OF LEAKS IN MAINS AND SERVICES -- FROM 1970 THROUGH 1978, 43.6% OF ALL LEAKS REPAIRED WERE DUE TO CORROSION. LEAKS RESULTING FROM DAMAGE BY OUTSIDE FORCE RANK SECOND AT 13.6%.
- 0 THE NUMBER OF FIRES REPORTED REACHED AN ALL TIME HIGH OF 716 IN 1978 -- HOWEVER, EXPLOSIONS AND INDUCED SECONDARY FIRES OR EXPLOSIONS DECLINED.
- 0 THE TOTAL VALUE OF PROPERTY DAMAGE DUE TO PIPELINE FAILURES CONTINUES TO RISE -- FROM \$8.9 MILLION IN 1970 TO \$144 MILLION IN 1978.

TABLE 1
 MILES OF MAINS AND SERVICES, MILES OF
 MAINS CATHODICALLY PROTECTED
 by year 1970-1978
 (DOT F 7100.1-1)

	1970	1971	1972	1973	1974	1975	1976	1977	1978
Miles of Mains	550,737	635,885	653,527	668,678	671,568	664,310	700,727	699,558	799,856
Number of Services	33,206,050	36,700,587	37,974,486	40,129,976	39,559,313	38,965,870	40,966,790	41,313,075	42,506,584
Miles of Mains Cathodically Protected	252,046	226,736	216,720	269,230	296,191	310,138	366,410	371,232	442,500

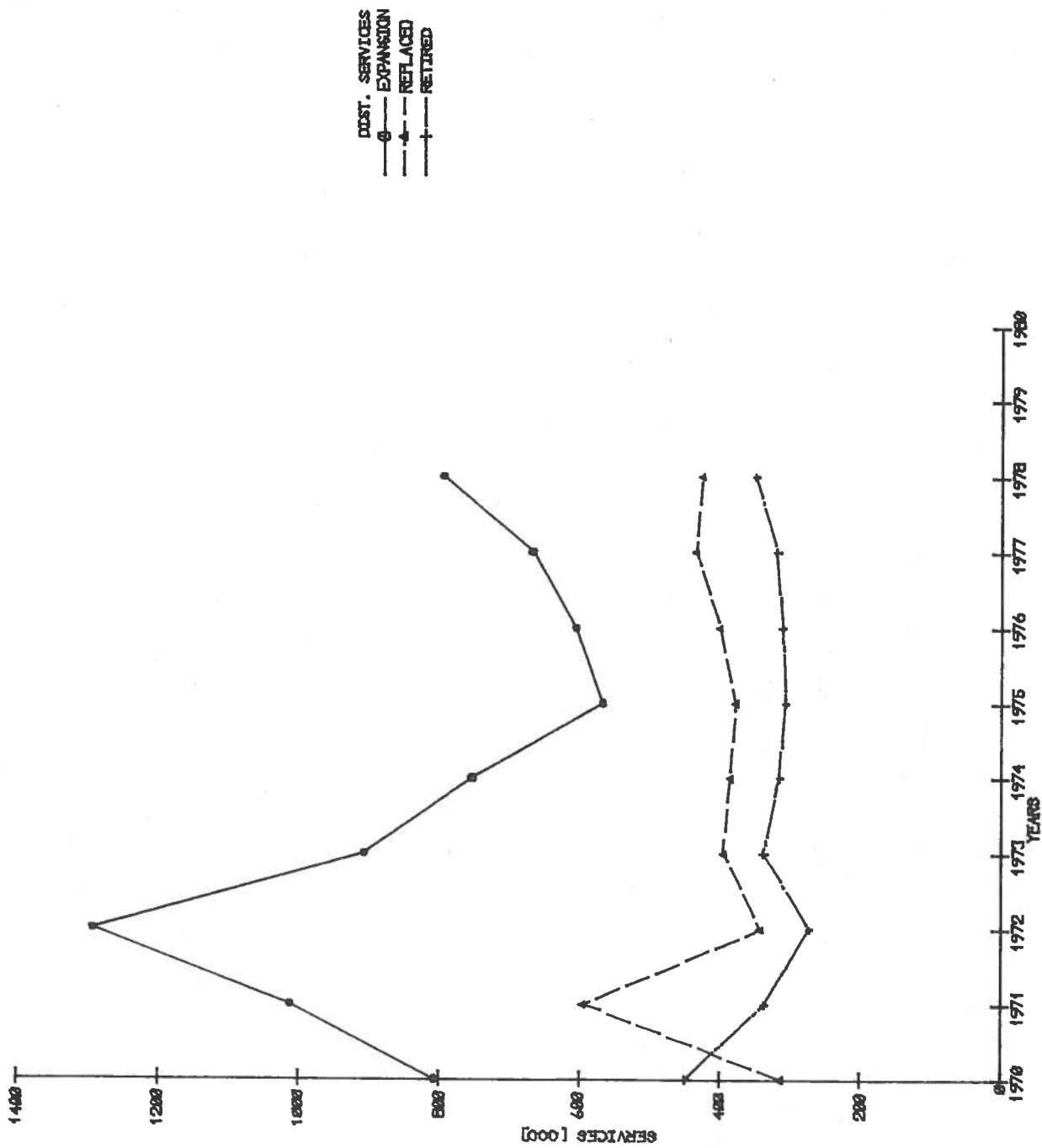


FIGURE 3
DIST. SERVICES AS REPORTED ON DOT F 7100.1-1
DOT / TRANSPORTATION SYSTEMS CENTER
STATISTICAL INFORMATION REPORTING BRANCH

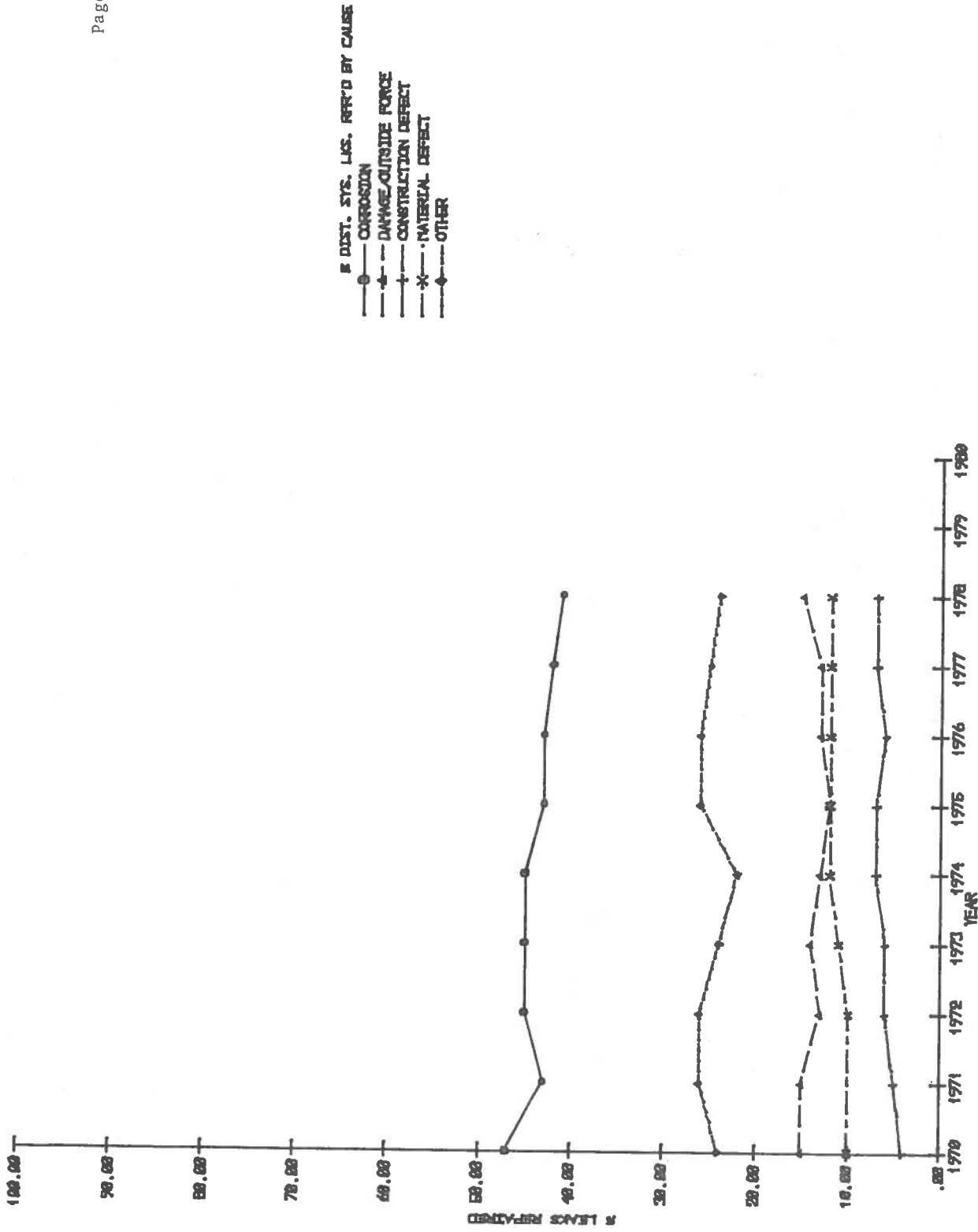


FIGURE 4
 % DIST. SYS. LOST BY CAUSE DOT F 7100.1-1
 DOT / TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH

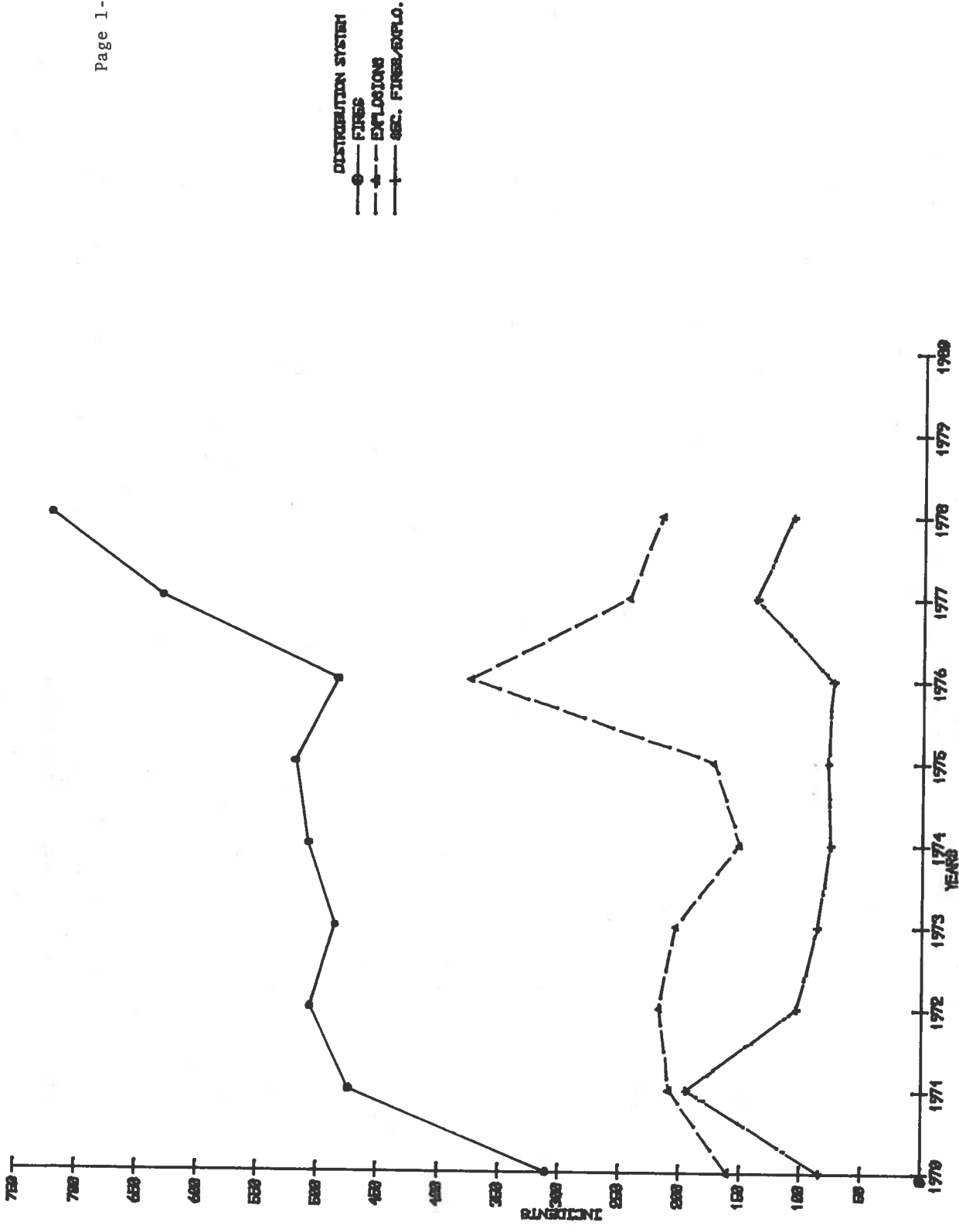


FIGURE 5
 DISTRIBUTION SYSTEM AS REPORTED ON DOT F 7180.1-1
 DOT / TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH

TABLE 5a
 TOTAL PERSONAL INJURIES OR FATALITIES
 RESULTING FROM ESCAPE OF GAS*
 by year 1970-1978**
 (Leak Reports and Telephonic Notices)

	1970	1971	1972	1973	1974	1975	1976	1977	1978
Number of Operator Fatalities	1	6	2	1	1	0	3	2	4
Number of Non-Employees Fatalities	20	36	26	32	19	8	50	27	16
Total Fatalities	21	42	28	33	20	8	53	29	20
Number of Operator Injuries	32	36	32	48	31	29	66	39	44
Number of Non-Employee Injuries	170	329	262	285	283	191	253	381	276
Total Injuries	202	365	294	333	314	220	319	420	320

*Table 5a differs from Table 5 because data includes individual leak reports and telephonic notices filed with the Office of Pipeline Safety, now the Materials Transportation Bureau, in accordance with 49 CFR, Part 191.5. Data from telephonic notices were not included in accident/casualty data for years 1970-1973.

**Data abstracted from the Materials Transportation Bureau's 11th Annual Report on the administration of "Natural Gas Pipeline Safety Act."

DOT SYS INJURIES
 TOTAL INJURIES
 OPERATOR EMP INJURIES
 CONTRACTOR EMP INJURIES
 NON-EMPLOYEE INJURIES

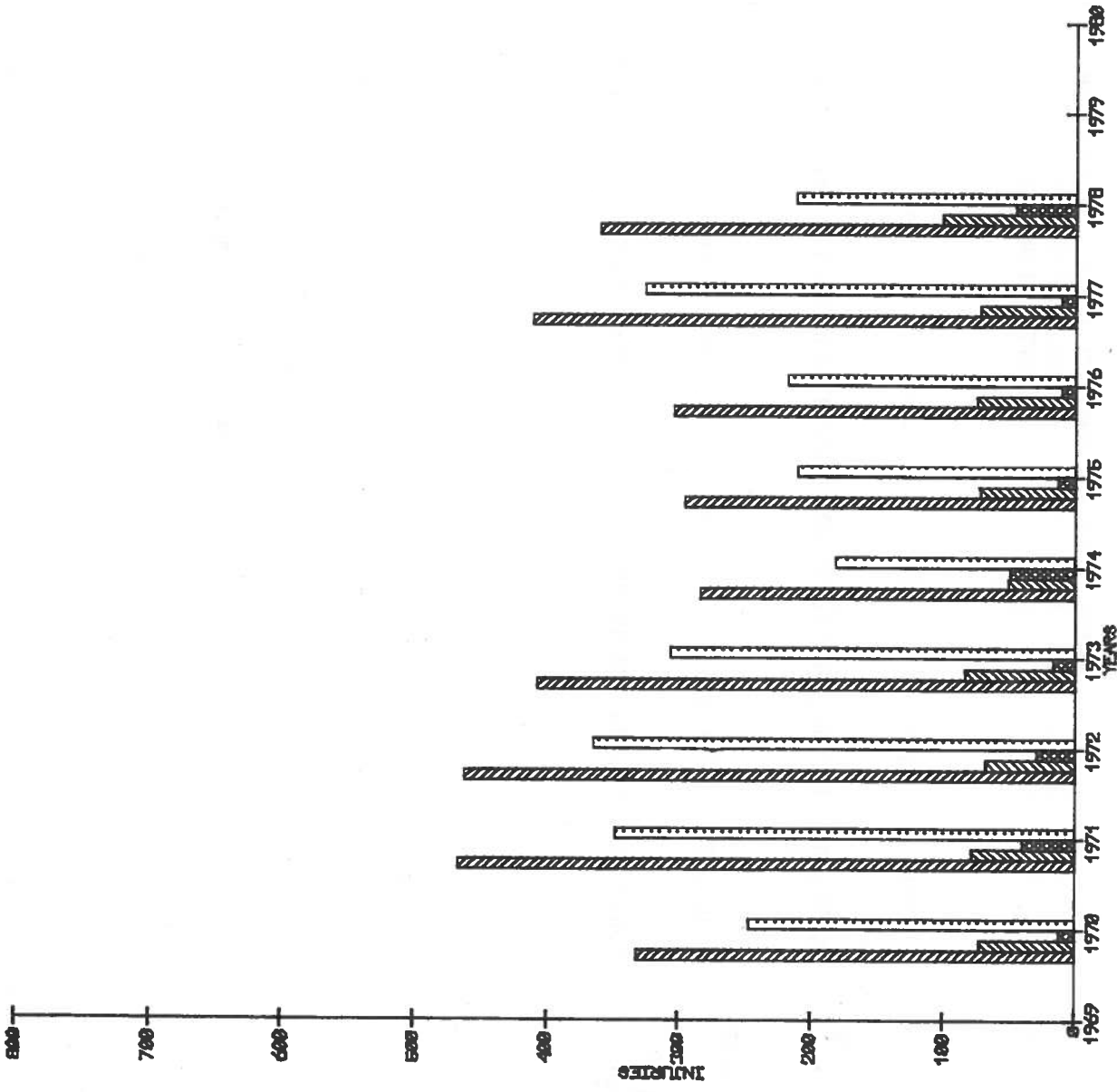


FIGURE 7
 DOT / TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DOT F 7100.1-1
 DOT SYS INJURIES AS RPTD ON DOT F 7100.1-1

DIST SYS PRPTY DAMAGE
 OPERATOR PROPERTY DAMAGE
 OTHERS PROPERTY DAMAGE
 TOTAL PROPERTY DAMAGE

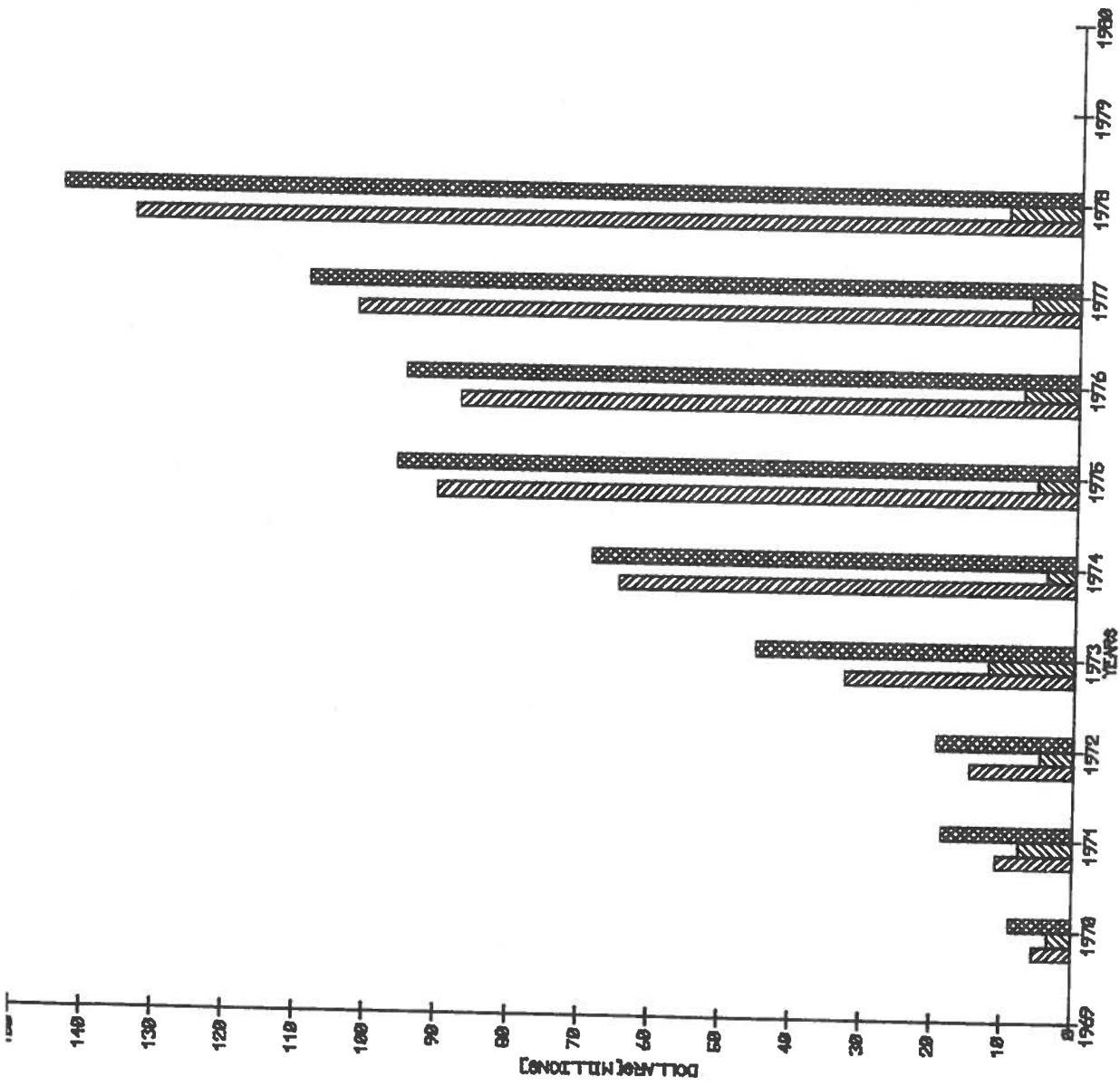


FIGURE 8
 DIST SYS PRPTY DAMAGE AS RPTD ON DOT F 7100.1-1
 DOT / TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH

I.2 TRANSMISSION/GATHERING SYSTEMS

- O SINCE 1970, MILES OF LINES CATHODICALLY PROTECTED HAVE INCREASED 130% -- 120,113 MILES IN 1970 TO 276,208 MILES IN 1978.
- O CORROSION CONTINUES TO BE THE LEADING CAUSE OF LEAKS IN TRANSMISSION/GATHERING LINES ACCOUNTING FOR 74.4% OF ALL LEAKS REPAIRED SINCE 1970 -- MATERIAL FAILURE RANKS SECOND AT 9.5%.
- O NUMBER OF FIRES, EXPLOSIONS, AND INDUCED SECONDARY FIRES OR EXPLOSIONS REACHED RECORD HIGHS IN 1978. COMPARED WITH 1970, FIRES AND EXPLOSIONS HAVE INCREASED 115% AND 60%, RESPECTIVELY, WHILE THE NUMBER OF INDUCED SECONDARY FIRES OR EXPLOSIONS HAS RISEN 300%.
- O TOTAL FATALITIES AND INJURIES RESULTING FROM THE ESCAPE OF GAS HAVE ALSO INCREASED SIGNIFICANTLY SINCE 1970. ONLY 2 FATALITIES AND 15 INJURIES WERE REPORTED IN 1970, WHILE IN 1978 THERE WERE 8 FATALITIES AND 92 INJURIES.
- O TOTAL VALUE OF PROPERTY DAMAGE DUE TO PIPELINE FAILURES ROSE TO A RECORD HIGH OF OVER \$13.7 MILLION IN 1978 -- THE FIRST TIME SINCE 1973 THAT THE VALUE HAS EXCEEDED \$13 MILLION.

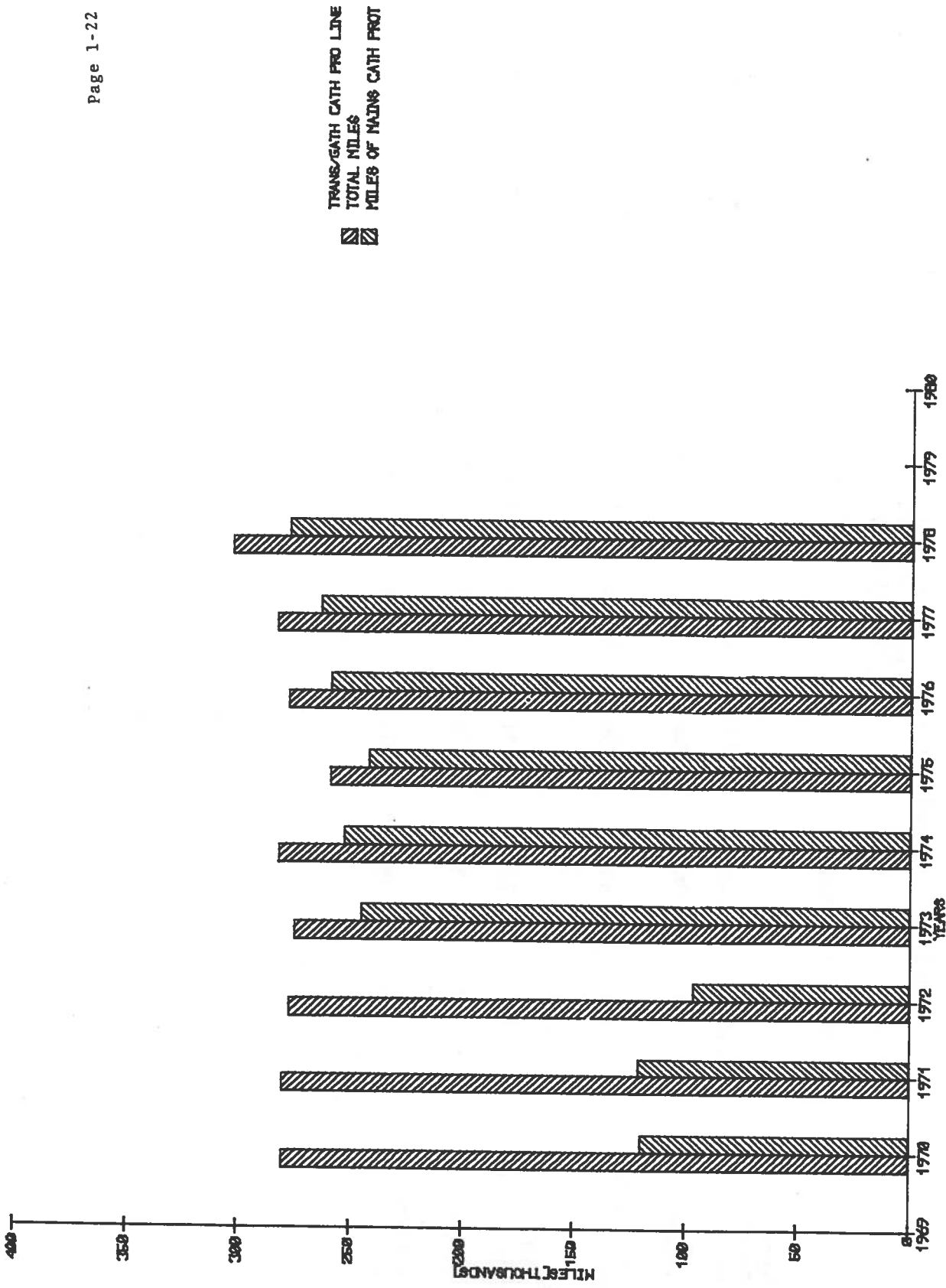


FIGURE 9
TRANS/GATH CATH PRO LINES RPTD ON DOT F 7100.2-1
DOT / TRANSPORTATION SYSTEMS CENTER
STATISTICAL INFORMATION REPORTING BRANCH

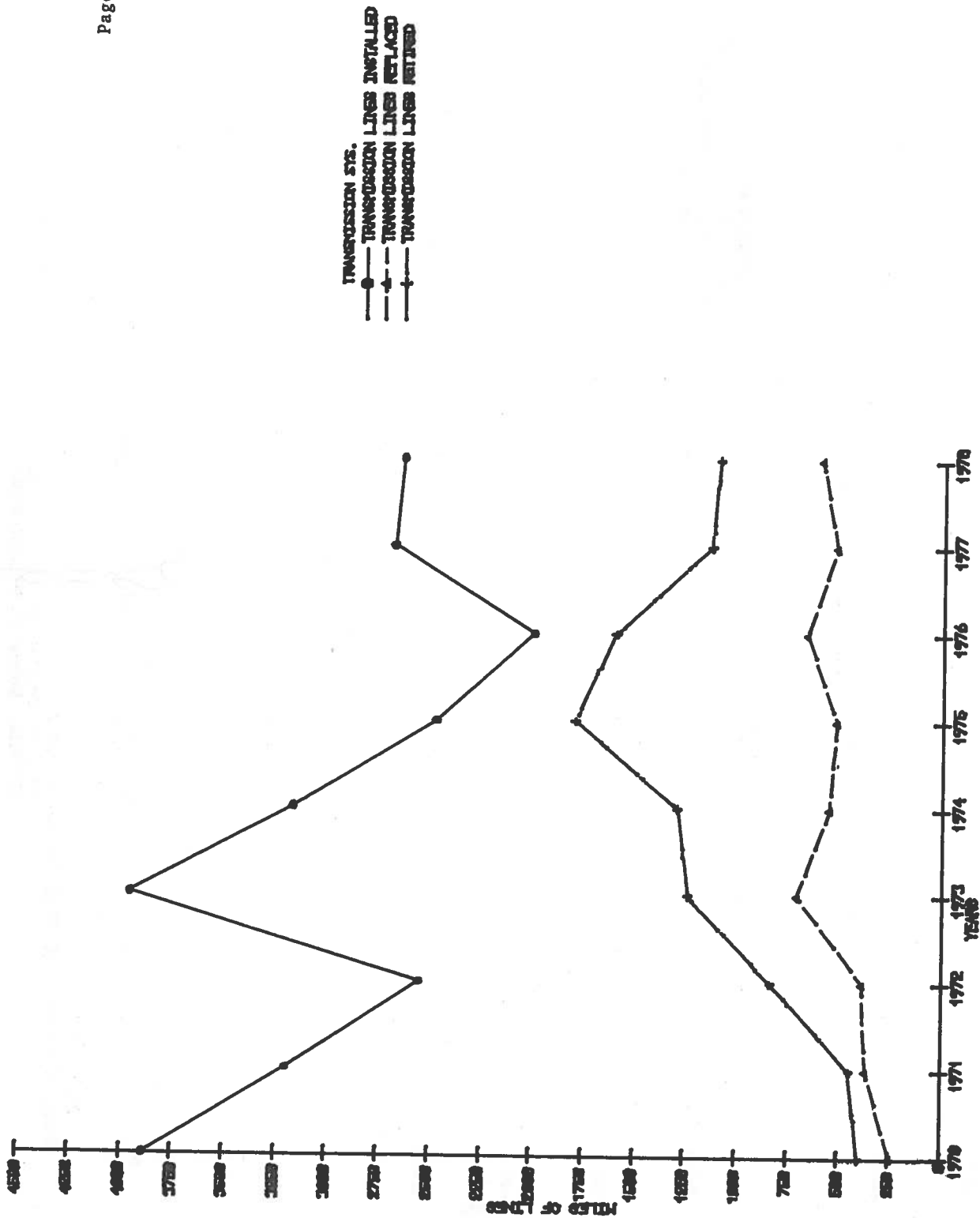


FIGURE 10
 TRANSMISSION STS. AS REPORTED ON DOT F 7102.2-1
 DOT / TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH

TABLE 9

TOTAL LEAKS AND PERCENTAGES REPAIRED BY CAUSE
by year 1970-1978
(DOT F 7100.2-1)

Cause	1970		1971		1972		1973		1974		1975		1976		1977		1978		Total	
	Leaks	%	Leaks	%	Leaks	%	Leaks	%	Leaks	%	Leaks	%	Leaks	%	Leaks	%	Leaks	%	Leaks	%
Corrosion	13,610	85.3	8,497	65.8	13,398	78.9	23,545	81.1	20,907	73.7	11,220	75.1	13,835	74.8	14,679	60.4	14,507	74.8	134,198	74.4
Damage by Outside Force	413	2.6	488	3.8	396	2.3	815	2.8	823	2.9	740	5.0	673	3.6	643	2.6	783	4.0	5,774	3.2
Construction Defect	212	1.3	326	2.5	387	2.3	533	1.8	438	1.5	371	2.5	362	2.0	538	2.2	374	1.9	3,541	2.0
Material Failure	456	2.9	3,025	23.4	1,628	9.6	2,117	7.3	2,010	7.1	841	5.6	1,136	6.1	3,939	16.2	1,961	10.1	17,113	9.5
Other	1,271	8.0	576	4.5	1,173	6.9	2,013	6.9	4,203	14.8	1,767	11.8	2,480	13.4	4,514	18.6	1,762	9.1	19,759	11.0
Total Leaks	15,962		12,912		16,982		29,023		28,381		14,939		18,486		24,313		19,387		180,385	

TABLE 10
 NUMBER OF FIRES, EXPLOSIONS AND SECONDARY FIRES OR EXPLOSIONS
 by year 1970-1978
 (DOT F 7100.2-1)

	1970	1971	1972	1973	1974	1975	1976	1977	1978
Number of Fires	26	23	25	40	43	32	47	37	56
Number of Explosions	10	5	11	10	10	15	14	14	16
Number of Induced Secondary Fires or Explosions	4	2	2	7	12	6	10	7	16

	1970	1971	1972	1973	1974	1975	1976	1977	1978
Number of Operator Fatalities	2	1	3	1	5	2	2	5	1
Number of Contractor Fatalities	0	0	0	2	0	1	0	0	0
Number of Non-Employees Fatalities	0	0	2	1	3	1	6	3	7
Total Fatalities	2	1	5	4	8	4	8	8	8
Injuries									
Number of Operator Injuries	7	13	9	6	11	10	13	21	35
Number of Contractor Injuries	2	1	2	2	0	3	10	4	3
Number of Non-Employee Injuries	6	2	2	10	10	11	13	8	54
Total Injuries	15	16	13	18	21	24	36	33	92

*Based on information filed by pipeline operators in their annual reports to the Office of Pipeline Safety, now the Materials Transportation Bureau, in accordance with 49 CFR, Part 191.17 (Transmission and Gathering Systems: Annual Report).

TRANS/GATH TIE
 TOTAL FATALITIES
 OPERATOR EMP FATALITIES
 CONTRACTOR EMP FATALITIES
 NON-EMPLOYEE FATALITIES

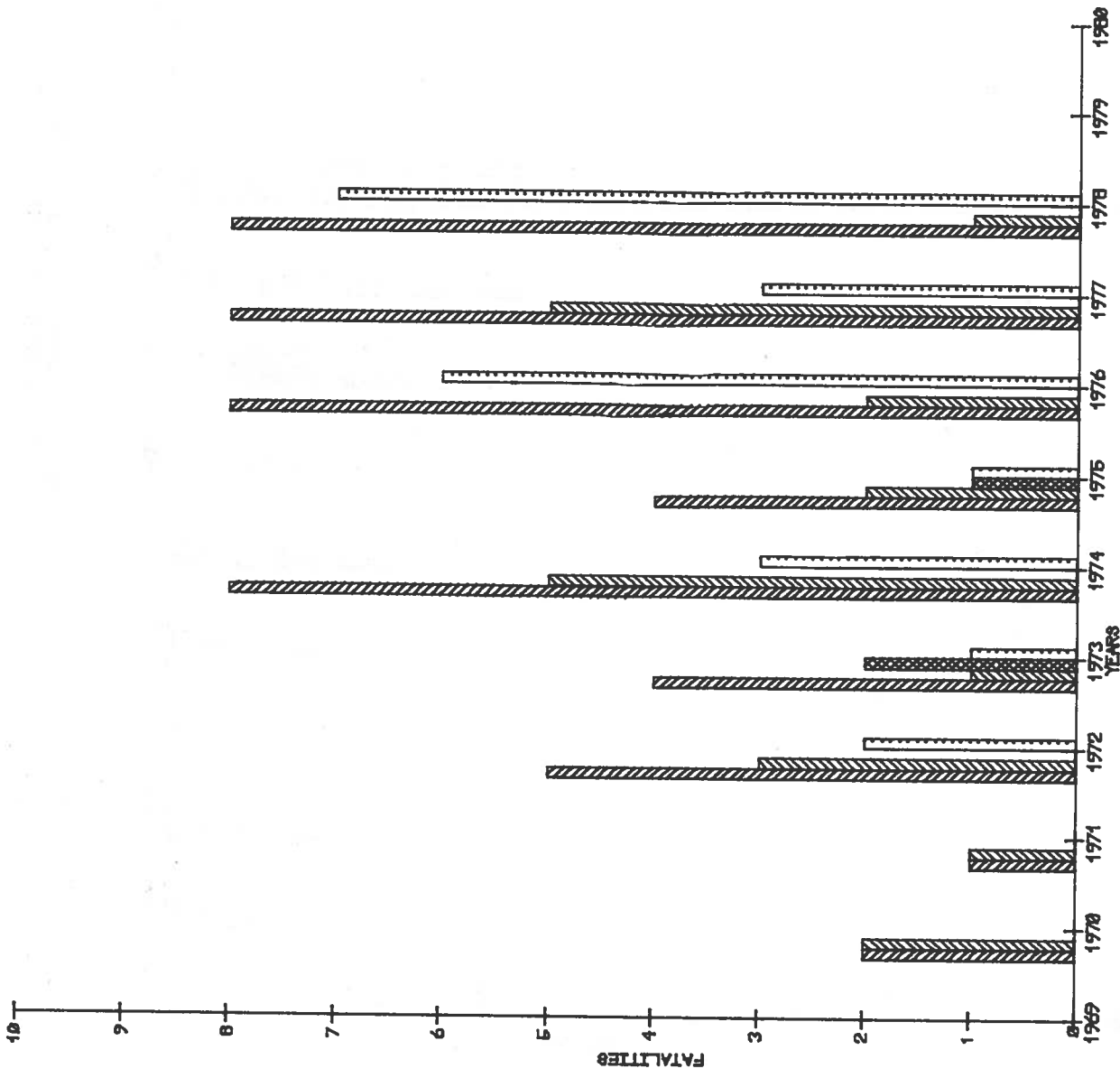


FIGURE 14
 TRANS/GATH SYS FATALITIES RPTD ON DOT F 7100.2-1
 DOT / TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH

TABLE 12
 ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE
 by year 1970-1978
 (DOT F 7100.2-1)

	1970	1971	1972	1973	1974	1975	1976	1977	1978
Value of Property Damage to Operator \$	2,037,387	5,820,996	1,878,295	12,940,001	11,409,018	11,401,205	10,245,005	9,345,654	13,455,784
Value of Property Damage to Others \$	0	0	0	250,800	796,656	482,885	496,358	786,811	307,889
Total Value of Property Damage \$	2,037,387	5,820,996	1,878,295	13,190,801	12,205,674	11,884,090	10,741,363	10,132,465	13,763,673

2.0 NATIONAL SUMMARIES

2.1 DISTRIBUTION SYSTEMS

- 0 A TOTAL OF THE 29 FATALITIES AND 360 INJURIES WERE REPORTED IN 1978.
- 0 IN ~~h~~ 1978, THE GAS DISTRIBUTION SYSTEM INCLUDED 42,906,584 SERVICES AND 799,856 MILES OF MAINS.
- 0 DISTRIBUTION PIPELINES INSTALLED FROM 1930 TO 1939 AVERAGED 1.85 LEAKS/MILE IN 1978, OF WHICH 1.12 WERE DUE TO CORROSION.
- 0 ALL DISTRIBUTION PIPELINES INSTALLED UP THROUGH 1978 AVERAGED 1.03 LEAKS/MILE IN 1978, OF WHICH 0.42 WERE DUE TO CORROSION.
- 0 IN 1978 THE CENTRAL REGION AND THE SOUTHWEST REGION HAD THE HIGHEST PERCENTAGES OF THE 442,500 MILES OF CATHODICALLY PROTECTED MAINS IN U.S.
- 0 A TOTAL OF 67.3% OF THE 34,279 MILES OF MAINS INSTALLED DURING 1978 WERE REPLACEMENTS -- WITH THE MAJORITY OF THESE REPLACEMENTS IN THE SOUTHWEST REGION (31.1%).
- 0 OF THE 822,905 DISTRIBUTION LEAKS REPAIRED IN 1978, 41.2% WERE DUE TO CORROSION, WHILE 15.2% RESULTED FROM DAMAGE BY AN OUTSIDE FORCES.
- 0 82% OF THE TOTAL SERVICES CONNECTIONS IN 1978 WERE MADE OF STEEL PIPE -- PLASTIC PIPE WAS SECOND WITH 13%.

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1970

NATIONAL SUMMARY

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	87453	.69	15206	.17	5165	.06	15223	.17	2484	.20	120340	1.30
PRIOR TO 1930	68086	.83	7630	.11	1541	.02	17940	.26	44643	.66	120536	1.89
1930 THRU 1939	27894	1.12	3627	.13	1617	.06	4522	.16	10504	.30	51700	1.85
1940 THRU 1949	58754	.79	6430	.11	3902	.06	6530	.11	13700	.23	76503	1.30
1950 THRU 1959	150018	.49	14795	.09	9293	.06	4200	.09	31946	.20	146900	.93
1960 THRU 1969	227057	.10	23465	.10	17170	.08	19591	.09	39000	.17	140746	.62
1970 TO END OF REPORTING YEAR	171794	.16	54103	.31	17431	.10	23046	.14	35635	.21	150100	.92
OVER ALL YEARS	799056	.42	125264	.16	55719	.07	101060	.13	200000	.25	822000	1.03

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

NATIONAL SUMMARY

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
PIPE	R NR 249 31029	229 40641	187 18533	313 23072	306 32648	565 16490	3411 20972	5260 (76) 183385 (69)
VALVE	R NR 3 1258	2 1365	11 861	36 1276	23 3295	45 3050	255 3039	375 (5) 14144 (5)
FITTING	R NR 39 5186	38 9620	16 2572	15 2966	25 4655	44 4024	411 3504	588 (8) 32527 (12)
DRIP	R NR 1 378	5 1203	4 298	7 246	3 471	8 260	32 167	60 (1) 3023 (1)
REGULATOR	R NR 2 149	0 86	1 36	2 62	15 200	12 262	340 487	372 (5) 1282 (1)
TAP CONNECTION	R NR 18 689	4 1173	3 293	12 474	26 704	39 872	101 1364	203 (3) 5569 (2)
OTHER (BY YEAR INSTALLED)	R NR 7 3803	13 12591	1 2367	2 1742	7 2262	7 1714	33 1753	70 (1) 26232 (10)
TOTAL R (\$)	319 (5)	291 (4)	223 (3)	387 (6)	405 (6)	720 (10)	4583 (66)	6928
TOTAL NR (\$)	42492 (16)	66679 (25)	24960 (9)	29838 (11)	44235 (17)	26672 (10)	31286 (12)	266162
GRAND TOTAL (\$)	42811 (16)	66970 (25)	25183 (9)	30225 (11)	44640 (16)	27392 (10)	35869 (13)	273090

NOTE: "R" = LEAKS REPORTED AND "NR" = LEAKS NOT REPORTED UNDER SEC. 191.9
 49 CFR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

NATIONAL SUMMARY

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
CORROSION								
DAMAGE BY OUTSIDE FORCES	15206	7630	3627	6438	14795	23465	54103	125264(15)
CONSTRUCTION DEFECT	5165	1541	1617	3502	9293	17170	17431	55719(7)
MATERIAL FAILURE	15223	17940	4522	6538	14200	19591	23846	101860(12)
OTHER	24484	44643	10584	13700	31946	39808	35635	200800(24)
TOTAL (\$)	120340 (15)	128536 (16)	51700 (6)	76503 (9)	146980 (18)	140746 (17)	158100 (19)	822905

PART G

NOMINAL SIZE

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	6"	8"	10"	12"	OVER 12"	TOTAL	TOTAL (\$)
STEEL											
WROUGHT IRON	80	1212	2152	814	287	44	62	44	16	4667 (1)	
CAST IRON	28	10125	34514	22821	5737	1239	3731	3731	2577	80772 (10)	
DUCTILE IRON	4	32	398	533	130	17	98	98	98	1310 (0)	
COPPER	30	435	37	3	0	0	0	0	0	505 (0)	
PLASTIC	12524	75429	17971	783	28	7	1	1	0	106743 (13)	
OTHER	364	365	152	21	1	1	1	1	3	908 (0)	
SYSTEM (\$)	43298 (5)	402694 (49)	227942 (28)	85508 (11)	28945 (4)	6330 (1)	11440 (1)	7617 (1)	813774 (1)		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

NATIONAL SUMMARY

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES OF MAINS	11206	4491	34279	MILES AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	794204	424748	1218952	NUMBER OF SERVICES	442500

PART P

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	MAINS SERVICES	MAINS SERVICES
	56943	62185

PART Q

	FATALITIES	NUMBER OF FIRES	716
NUMBER OF EMPLOYEES) OF OPERATOR	6	NUMBER OF EXPLOSIONS	216
SUFFERING LOST TIME INJURIES	102	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	107
FATALITIES	6	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 133738818
SUFFERING LOST TIME INJURIES	46	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 10137706
FATALITIES	17	TOTAL ESTIMATED VALUE	\$ 143876524
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	212		
TOTALS	29		
FATALITIES	360		
INJURIES			

TOTAL MILES OF MAINS INSTALLED - EXPANSION/REPLACEMENT 34279

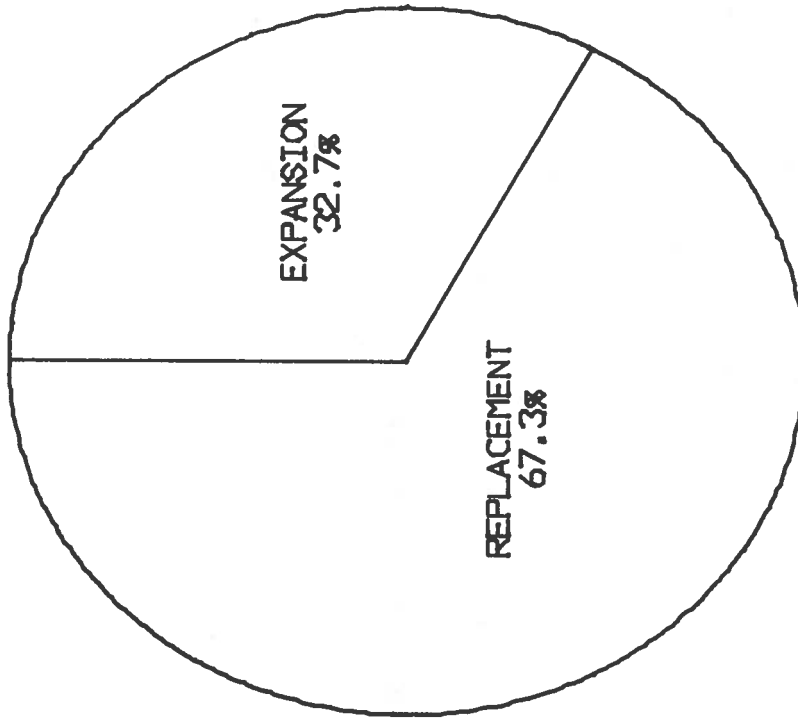


FIGURE 18
DIST MAINS INSTALLED - NAT'L TOTAL - 1978 - DOT F7100.1-1
DOT / TRANSPORTATION SYSTEMS CENTER
STATISTICAL INFORMATION REPORTING BRANCH

TOTAL LEAKS REPAIRED DURING YEAR - 822906

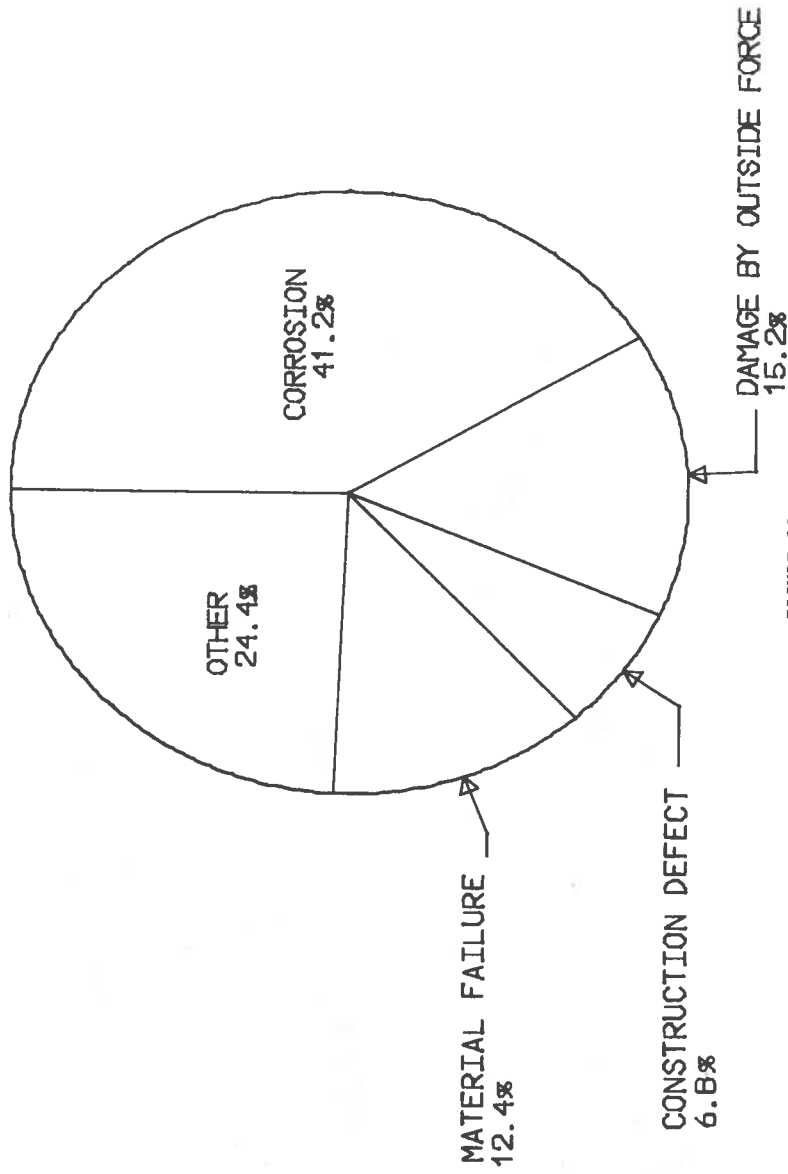


FIGURE 20

DIST LEAKS REPAIRED BY CAUSE - 1978 - DOT F 7100.1-1
DOT / TRANSPORTATION SYSTEMS CENTER
STATISTICAL INFORMATION REPORTING BRANCH

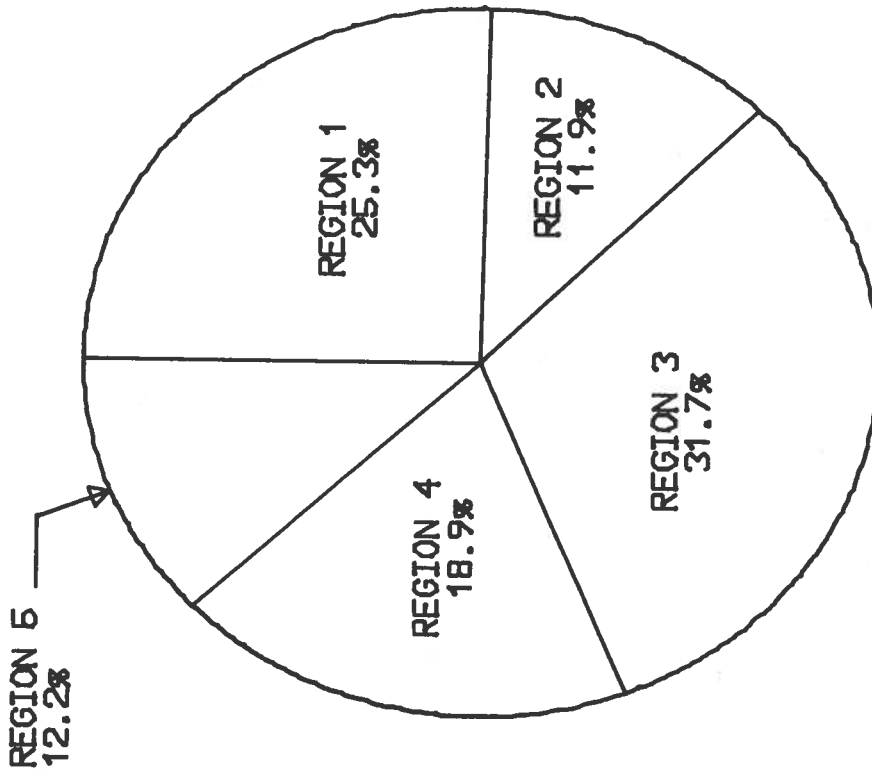


FIGURE 22
DISTRIBUTION INJURIES BY REGION - 1978 - DOT F7100.1-1
DOT / TRANSPORTATION SYSTEMS CENTER
STATISTICAL INFORMATION REPORTING BRANCH

2.2 TRANSMISSION/GATHERING SYSTEMS

- 0 TRANSMISSION/GATHERING PIPELINES INSTALLED UP THROUGH 1978 AVERAGED 0.06 LEAKS/MILE IN 1978, OF WHICH 0.05 WERE DUE TO CORROSION.
- 0 IN 1978, 99% OF THE TRANSMISSION LINES AND 95% OF THE GATHERING LINES IN THE PIPELINE SYSTEM WERE MADE OF STEEL.
- 0 ALMOST 75% OF THE 19,387 LEAKS REPAIRED IN 1978 WERE DUE TO CORROSION. LEAKS RESULTING FROM MATERIAL FAILURE WERE SECOND AT 10.1%.
- 0 IN 1978, THE SOUTHWEST REGION HAD 44.5% OF THE 276,208 MILES OF CATHODICALLY PROTECTED TRANSMISSION AND GATHERING LINES IN THE U.S.
- 0 IN 1978, 83.7% OF THE 4,466 MILES OF LINES INSTALLED WERE DUE TO EXPANSION PROJECTS, WITH THE MAJORITY OF THE EXPANSION TAKING PLACE IN THE SOUTHWEST REGION.
- 0 61% OF THE 11,858 MILES OF GATHERING AND 22% OF THE 263,895 MILES OF TRANSMISSION LINES PRESENTLY IN THE SYSTEM WERE CATHODICALLY PROTECTED BETWEEN 1970 AND 1978.
- 0 NON-EMPLOYEES EXPERIENCED 7 OF 8 FATALITIES AND 54 OF THE 92 INJURIES REPORTED IN 1978.

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

PAGE 2-21

NATIONAL SUMMARY

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	10222	0.28	120	0.01	3	0.00	17	0.00	101	0.01	3058	0.30
PRIOR TO 1962	152921	0.07	375	0.00	177	0.00	1695	0.01	328	0.01	14214	0.09
1962 THRU 1969	92564	0.01	157	0.00	99	0.00	149	0.00	201	0.00	1286	0.01
1970 TO END OF REPORTING YEAR	45723	0.01	131	0.00	95	0.00	100	0.00	132	0.00	829	0.02
OVER ALL YEARS	301430	0.05	783	0.00	374	0.00	1961	0.01	1762	0.01	19387	0.06

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

NATIONAL SUMMARY

PART D	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMIS- SION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R NR	0 2	5 23	7 49	7 33	3 46	3 32	7 28	32 (4) 213 (2)
BODY OF PIPE	R NR	0 2	5 23	7 49	7 33	3 46	3 32	7 28	32 (4) 213 (2)
GIRTH WELD	R NR	0 2	5 23	7 49	7 33	3 46	3 32	7 28	32 (4) 213 (2)
LONGITUDINAL WELD	R NR	0 2	5 23	7 49	7 33	3 46	3 32	7 28	32 (4) 213 (2)
OTHER WELDS	R NR	0 0	0 0	0 0	0 5	1 4	0 9	2 4	3 (0) 27 (0)
COMPRESSOR	R NR	0 4	0 5	0 0	1 3	1 1	1 2	8 4	11 (1) 19 (0)
VALVE	R NR	1 22	0 73	1 76	1 57	3 94	1 91	5 38	12 (1) 451 (4)
SCRAPER TRAP	R NR	0 0	0 1	0 0	0 0	0 0	1 2	0 1	1 (0) 4 (0)
TAP CONNECTION	R NR	9 36	5 41	3 21	0 10	4 27	3 33	3 10	27 (3) 178 (2)
FITTING	R NR	6 33	13 455	16 116	2 38	5 56	21 115	10 52	73 (9) 865 (7)
GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 6	0 0	0 2	0 (0) 8 (0)
OTHER	R NR	1 64	8 535	2 74	3 70	5 191	8 88	7 18	34 (4) 1040 (9)
TOTALS (%)	R NR	50 (6) 953 (8)	197 (24) 1142 (43)	123 (15) 1626 (14)	69 (8) 1236 (11)	157 (19) 1816 (16)	151 (18) 666 (6)	87 (10) 317 (3)	834 11628
GRAND TOTAL (%)	R NR	1003 (8)	5746 (42)	1749 (14)	1305 (10)	1973 (16)	817 (7)	404 (3)	12462

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

NATIONAL SUMMARY

PART F	TOTAL LEAKS REPAIRED DURING YEAR BY CAUSE (NUMBER BY YEAR INSTALLED)	UNKNOWN	PRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (X)
	CORROSION							
	DAMAGE BY OUTSIDE FORCE	120	375	59	52	46	131	(75) 783 (4)
	CONSTRUCTION DEFECT	3	177	47	35	17	95	(2)
	MATERIAL FAILURE	17	1695	101	21	27	100	1961 (10) 1762 (9)
	OTHER	101	1328	90	67	44	132	
	TOTAL (X)	3058 (16)	14214 (73)	743 (4)	324 (2)	219 (1)	829 (4)	19387

PART G

MATERIAL	BY NOMINAL SIZE	TRANSMISSION GATHERING	STEEL (X)	PLASTIC (X)	OTHER (X)	SYSTEM TOTAL	TRANSMISSION MISSION	GATHERING	SYSTEM TOTAL (X)
1" OR LESS	193	82	275 (0)	20820	300	21120 (7)	165	0	165 (0)
OVER 1" THRU 2"	9142	2431	11573 (4)	5790	40	5830 (2)	1780	0	1780 (1)
OVER 2" THRU 4"	25320	8778	34106 (11)	21975	185	22160 (7)	13512	0	13512 (4)
OVER 4" THRU 6"	26432	4304	30736 (10)	7435	30	7465 (2)	1	0	1 (0)
8"	26993	2721	29714 (10)	23580	135	23715 (8)	6	0	6 (0)
10"	17009	664	17673 (6)	17258	11	17269 (6)	1120	0	1120 (0)
12"	25604	580	26184 (9)	7	1	8 (0)	25	0	25 (0)
14"	3540	83	3623 (1)	35842	149	35991 (12)	283557 (93)	20494 (7)	304051

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

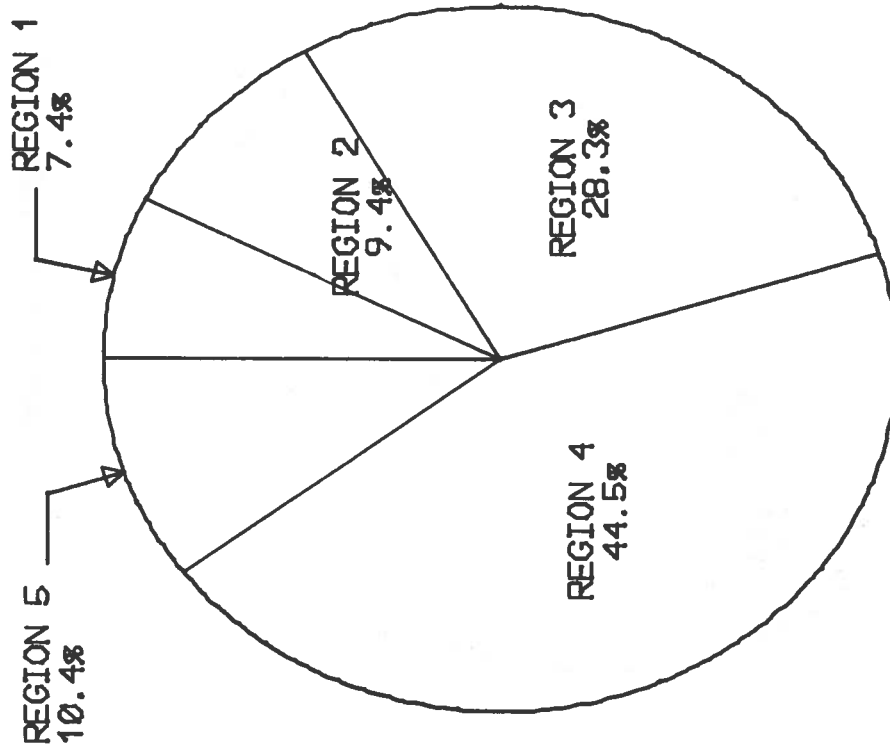
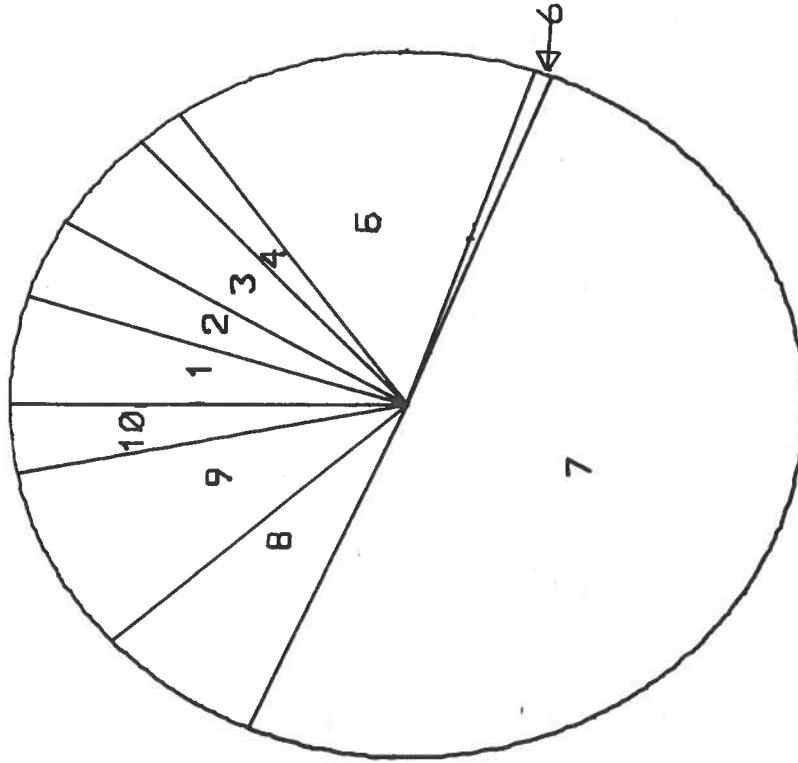


FIGURE 23
MLS PROTECTED TRANS/GATH LINES - BY REG-197B- DOT F7100.2-1
DOT / TRANSPORTATION SYSTEMS CENTER
STATISTICAL INFORMATION REPORTING BRANCH

TOTAL MILES INSTALLED EXPANSION/REPLACEMENT - 4466



NO.	PERCENT	TITLE
1	4.9	EXPANSION REGION 1
2	3.7	REPLACEMENT REGION 2
3	4.7	EXPANSION REGION 3
4	1.9	REPLACEMENT REGION 4
5	14.9	EXPANSION REGION 5
6	.8	REPLACEMENT REGION 6
7	50.5	EXPANSION REGION 7
8	6.7	REPLACEMENT REGION 8
9	8.6	EXPANSION REGION 9
10	3.1	REPLACEMENT REGION 10

FIGURE 25
 TRANS/GATH LINES INSTALLED - BY REG - 1978 - DOT F7100.2-1
 DOT / TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH

3.0 STATE AND REGIONAL SUMMARIES

DISTRIBUTION SYSTEMS IN 1978:

- o THE EASTERN REGION HAD THE LOWEST NUMBER OF MILES (40,546) OF CATHODICALLY PROTECTED MAINS -- THE SOUTHERN REGION HAD THE HIGHEST NUMBER (135,390).
- o 49% OF THE LEAKS (0.77 LEAKS/MILE) REPAIRED IN THE EASTERN REGION WERE DUE TO CORROSION, THE HIGHEST PERCENTAGE IN THE NATION. THE SOUTHERN REGION HAD THE LOWEST (32%) WITH 0.28 LEAKS/MILE DUE TO CORROSION.
- o DAMAGE BY OUTSIDE FORCES (SECOND LEADING CAUSE OF LEAKS) ACCOUNTED FOR 22% OF THE LEAKS (0.23 LEAKS/MILE) REPAIRED IN THE SOUTHWEST REGION AND 21% (0.16 LEAKS/MILE) IN THE WESTERN REGION.
- o THE CENTRAL REGION HAD 235,901 MILES OF MAINS AND 13,582,437 SERVICES, COMPRISING THE LARGEST REGIONAL TOTALS IN THE NATION.
- o THE EASTERN REGION HAD THE GREATEST NUMBER (24%) OF MILES OF PLASTIC MAINS IN SYSTEM -- THE SOUTHERN REGION, THE LOWEST NUMBER (9%).

TRANSMISSION/GATHERING SYSTEMS IN 1978:

- o THE LARGEST NUMBER OF LEAKS (7,581) WERE REPAIRED IN THE EASTERN REGION -- 84% (6,364) OF THESE WERE DUE TO CORROSION.
- o THE EASTERN REGION HAD 0.29 LEAKS/MILE -- THE HIGHEST IN THE NATION -- 0.24 LEAKS/MILE WERE DUE TO CORROSION.
- o ALMOST 100% OF ALL GATHERING LINES IN THE NATION ARE MADE OF STEEL; HOWEVER, IN THE EASTERN REGION, 27% OF THE GATHERING LINES ARE MADE OF PLASTIC.
- o THE SOUTHWEST REGION HAD THE MOST MILES (123,009) OF CATHODICALLY PROTECTED LINES.
- o THE SOUTHWEST REGION HAD THE MOST FIRES (25) AND THE HIGHEST VALUE OF PROPERTY DAMAGE (\$8,024,815) -- THE WESTERN REGION HAD THE LEAST FIRES (4) AND THE LOWEST VALUE OF PROPERTY DAMAGE (\$911,248).

3.1 EASTERN REGION (REGION I)

3.1.1 Distribution Systems

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.3-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CONNECTICUT

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	923	.07	67	.07	4	.00	32	.03	4	.00	4	.00	170	.18
PRIOR TO 1930	1406	.34	182	.13	0	.00	1	.00	485	.34	485	.34	1151	.82
1930 THRU 1939	276	.43	63	.23	0	.00	0	.00	123	.45	123	.45	304	1.10
1940 THRU 1949	193	.82	45	.23	0	.00	0	.00	94	.49	94	.49	298	1.54
1950 THRU 1959	598	.39	100	.17	0	.00	0	.00	72	.12	72	.12	403	.67
1960 THRU 1969	1405	.10	123	.09	8	.01	6	.00	94	.06	94	.06	359	.26
1970 TO END OF REPORTING YEAR	699	.01	208	.30	2	.00	0	.00	60	.09	60	.09	278	.40
OVER ALL YEARS	5500	.22	708	.14	14	.00	39	.01	922	.17	922	.17	2963	.54

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR DISTRICT OF COLUMBIA

YEAR UNKNOWN	TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT	MATERIAL FAILURE	OTHER	TOTAL	PER MILE	PER MILE
		NO.	PER MILE	NO.	PER MILE	NO.	PER MILE						
0	111	.00	54	.00	29	.00	61	.00	109	.00	364	.00	.00
PRIOR TO 1930	602	.55	163	.27	0	.00	1257	2.09	166	.20	1917	.20	3.18
1930 THRU 1939	289	475	1.64	.17	0	.00	286	.99	97	.34	908	.34	3.14
1940 THRU 1949	412	718	1.74	.09	3	.01	43	.10	175	.42	978	.42	2.37
1950 THRU 1959	1516	1544	1.02	.09	12	.01	78	.05	1322	.87	3098	.87	2.04
1960 THRU 1969	2303	931	.40	.16	137	.06	423	.18	1161	.50	3021	.50	1.31
1970 TO END OF REPORTING YEAR	958	45	.05	.35	193	.20	7	.01	141	.15	721	.15	.75
OVER ALL YEARS	6080	4155	.68	.19	374	.06	2155	.35	3171	.52	11007	.52	1.81

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MARYLAND

YEAR UNKNOWN	TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
		NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
	40	1279	31.97	52	1.30	90	2.25	206	5.15	30	.75	1697	41.43		
PRIOR TO 1930	1053	661	.63	92	.09	91	.09	848	.81	75	.07	1767	1.68		
1930 THRU 1939	248	400	1.61	39	.16	31	.13	167	.67	28	.11	665	2.68		
1940 THRU 1949	287	548	1.91	47	.16	31	.11	132	.46	24	.08	782	2.72		
1950 THRU 1959	1003	959	.96	64	.06	119	.12	97	.10	143	.14	1382	1.38		
1960 THRU 1969	1286	937	.73	123	.10	253	.20	117	.09	319	.25	1749	1.36		
1970 TO END OF REPORTING YEAR	4260	340	.08	150	.04	295	.07	96	.02	210	.05	1099	.26		
OVER ALL YEARS	8177	5124	.63	567	.07	910	.11	1663	.20	837	.10	9101	1.11		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW HAMPSHIRE

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	231	.06	18	.08	28	.09	1	.00	30	.13	83	.36
PRIOR TO 1930	163	.58	61	.37	24	.15	407	2.50	284	1.74	871	5.34
1930 THRU 1939	14	2.29	18	1.29	2	.14	20	1.43	36	2.57	108	7.71
1940 THRU 1949	13	1.08	3	.23	0	.00	2	.15	8	.62	27	2.08
1950 THRU 1959	105	.23	21	.20	1	.01	5	.05	6	.06	57	.54
1960 THRU 1969	365	.13	90	.25	6	.02	22	.06	16	.04	180	.49
1970 TO END OF REPORTING YEAR	134	.04	59	.44	0	.00	43	.32	7	.05	115	.86
OVER ALL YEARS	1025	.23	270	.26	53	.05	500	.49	387	.38	1441	1.41

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1e1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW YCRK

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION		YEAR BY CAUSE		OTHER		TOTAL		
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	MATERIAL FAILURE	PER MILE	NO.	PER MILE	NO.	PER MILE	
YEAR UNKNOWN	139	23.09	860	6.19	63	.60	709	5.10	2300	17.04	7230	52.01	
PRIOR TO 1930	9568	.77	1109	.12	183	.02	7902	.83	15620	1.63	32219	3.37	
1930 THRU 1939	2273	1.24	171	.08	38	.02	620	.27	1093	.46	4703	2.07	
1940 THRU 1949	1842	1.26	116	.06	41	.02	392	.21	489	.25	3323	1.80	
1950 THRU 1959	6338	.82	352	.06	118	.02	855	.13	1395	.22	7904	1.25	
1960 THRU 1969	7368	.35	595	.08	4890	.66	3731	.51	1384	.19	13194	1.79	
1970 TO END OF REPORTING YEAR	3215	.29	751	.23	3994	1.24	2958	.92	1069	.33	9693	3.01	
OVER ALL YEARS	30743	24442	.80	3954	.13	9347	.30	17167	.56	23356	.76	78266	2.55

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR RHODE ISLAND

YEAR UNKNOWN	TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL NO.	PER MILE
		NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE		
	0	2	.00	4	.00	0	.00	0	.00	368	.00	374	.00
PRIOR TO 1930	1653	541	.33	210	.13	16	.01	38	.02	848	.51	1653	1.00
1930 THRU 1939	189	154	.81	32	.17	0	.00	66	.35	78	.41	330	1.75
1940 THRU 1949	338	242	.72	61	.18	10	.03	22	.07	124	.37	459	1.36
1950 THRU 1959	479	219	.46	65	.14	3	.01	14	.03	83	.17	384	.80
1960 THRU 1969	1054	183	.17	50	.05	8	.01	8	.01	75	.07	324	.31
1970 TO END OF REPORTING YEAR	391	131	.34	78	.20	5	.01	24	.06	59	.15	297	.76
OVER ALL YEARS	4104	1472	.36	500	.12	42	.01	172	.04	1635	.40	3821	.93

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR VIRGINIA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION		YEAR BY CAUSE MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	192	2.86	33	.17	25	.13	1659	8.64	362	1.89	2629	13.69
PRIOR TO 1930	819	.54	98	.12	5	.01	86	.11	106	.13	737	.90
30 THRU 1939	196	1.44	61	.31	13	.07	42	.21	37	.19	435	2.22
40 THRU 1949	548	.94	81	.15	14	.03	250	.46	51	.09	909	1.66
50 THRU 1959	2373	.70	106	.04	46	.02	686	.29	132	.06	2625	1.11
60 THRU 1969	1822	.50	255	.14	82	.05	730	.40	177	.10	2153	1.18
70 TO END OF REPORTING YEAR	847	.16	249	.29	66	.08	210	.25	72	.09	731	.86
OVER ALL YEARS	6797	.66	883	.13	251	.04	3663	.54	937	.14	10219	1.50

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-01)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 1

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE CONSTRUCTION		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	9709	1.22	1805	.19	576	.06	5226	.54	4219	.43	23693	2.44
PRIOR TO 1930	30642	1.04	3535	.12	460	.02	13507	.44	26169	.85	75436	2.46
1930 THRU 1939	8057	1.33	806	.11	140	.02	1799	.22	2260	.28	15785	1.96
1940 THRU 1949	7217	1.71	753	.10	187	.03	1224	.17	1763	.24	16384	2.26
1950 THRU 1959	25188	.91	1587	.06	536	.02	2730	.11	4694	.19	32392	1.29
1960 THRU 1969	33938	.32	2752	.08	5638	.17	5783	.17	4903	.15	29922	.88
1970 TO END OF REPORTING YEAR	19890	.16	3281	.16	4884	.25	3854	.19	3185	.16	18401	.93
OVER ALL YEARS	134641	.77	14599	.11	12421	.09	34123	.25	47291	.35	211933	1.57

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FJK CALENDAR YEAR 1978

SUMMARY FOR MASSACHUSETTS

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	TOTAL PIPE BY CONSTRUCTION DATE	MILES OF MAINS	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
			376962	161869	31541	32705	53798	115934	128033	900842
		MILES OF MAINS	1993	0	30	25	727	2871	1514	7160
	COATED PIPE BY COATING DATE	NUMBER SERVICES	23628	0	0	792	24651	108293	83993	241357
PART C		MILES OF MAINS	192	0	0	0	155	1450	1682	3479
	COATED PIPE BY PROTECTION DATE	NUMBER SERVICES	10796	0	0	0	3745	42667	89811	147019
		MILES OF MAINS	0	0	0	0	0	0	31	31
	BARE PIPE BY PROTECTION DATE	NUMBER SERVICES	0	0	0	0	0	0	315	315
		TOTAL MILES	192 (5)	0 (0)	0 (0)	0 (0)	155 (4)	1450 (41)	1713 (49)	3510
	PART C TOTAL (%)	TOTAL SERVICES	10796 (7)	0 (0)	0 (0)	0 (0)	3745 (3)	42667 (29)	90126 (61)	147334

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW JERSEY

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	1	5361	1119	1236	4509	6543	2522	21291
COATED PIPE BY COATING DATE	0	314751	54674	112813	341783	406499	251186	1481706
	0	4	0	69	1926	5810	2091	9900
	0	29144	13456	12847	272633	352989	178891	859960
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	0	0	0	0	318	3696	3012	7026
	0	0	0	0	10058	256604	183306	449968
BARE PIPE BY PROTECTION DATE	0	0	0	0	0	42	17	59
	0	0	0	0	0	3310	251	3561
TOTAL MILES	(0)	(0)	(0)	(0)	318	3738	3029	7085
TOTAL SERVICES (%)	(0)	(0)	(0)	(0)	(2)	(57)	(40)	453529

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR PENNSYLVANIA

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	MILES OF MAINS	MILES OF MAINS	MILES OF MAINS	NUMBER SERVICES	NUMBER SERVICES	NUMBER SERVICES	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	73976	403971	83127	142347	376812	428921	459795	1968949					
COATED PIPE BY COATING DATE	0	25	23	93	2286	5190	2145	9762					
	3	474	131	566	22927	137515	120023	281639					
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	7	0	0	0	1002	2944	3463	7416					
COATED PIPE BY PROTECTION DATE	500	0	0	0	1127	67060	118552	187239					
BARE PIPE BY PROTECTION DATE	0	26	22	43	263	207	143	704					
	0	1323	0	0	0	40	1803	3166					
TOTAL MILES	7 (0)	26 (0)	22 (0)	43 (1)	1265 (16)	3151 (39)	3606 (44)	8120					
PART C TOTAL (%)	500 (0)	1323 (1)	0 (0)	0 (0)	1127 (1)	67100 (35)	120355 (63)	190405					

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WEST VIRGINIA

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	MILES OF MAINS	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	59596	2176	6380	23493	17922	12284	35149	157000	
COATED PIPE BY COATING DATE	1	0	0	0	70	220	321	612	
	0	0	0	0	2701	3402	17828	23931	
PART C CATHODICALLY PROTECTED SYSTEMS	0	0	0	0	0	58	313	371	
	0	0	0	0	0	2977	16307	19284	
BARE PIPE BY PROTECTION DATE	16	0	0	4	0	8	2429	2457	
	0	0	0	60	0	120	70710	70890	
TOTAL MILES	16	0	0	4	0	66	2742	2828	
	(1)	(0)	(0)	(0)	(0)	(2)	(97)		
PART C TOTAL (\$)	0	0	0	60	0	3097	87017	90174	
	(0)	(0)	(0)	(0)	(0)	(3)	(96)		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MARYLAND

PART D	PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)	
										0 (0)	2023 (77)
			0 317	0 853	0 293	0 236	0 221	0 49	0 54	0 0	0 (0)
	VALVE		0 14	0 18	0 10	0 5	0 19	0 14	3 16	3 96	(0) (4)
	FITTING		0 41	0 41	0 7	0 5	0 22	0 15	0 10	0 141	(0) (5)
	DRIP		0 71	0 90	0 19	0 11	0 33	0 20	0 11	0 255	(0) (10)
	REGULATOR		0 0	0 0	0 0	0 0	0 4	0 6	0 1	0 11	(0) (1)
	TAP CONNECTION		0 1	0 2	0 1	0 0	0 3	0 4	0 5	0 16	(0) (1)
	OTHER		0 6	0 41	0 6	0 5	0 11	0 5	0 2	0 76	(0) (3)
	TOTAL R (%)		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (100)	3	
	TOTAL NR (%)		450 (17)	1045 (40)	336 (13)	262 (10)	313 (12)	113 (4)	99 (4)	2618	
	GRAND TOTAL (%)		450 (17)	1045 (40)	336 (13)	262 (10)	313 (12)	113 (4)	102 (4)	2621	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW HAMPSHIRE

PART D	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
	15	534	0	0	43	10	0	0	38	0 (0)
VALVE	1	4	0	0	2	0	0	0	16	0 (0)
FITTING	2	16	0	0	2	0	0	0	8	0 (0)
DRIP	2	8	0	0	0	2	0	0	2	0 (0)
REGULATOR	0	0	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	1	0	0	0	0	0	0	0	0	0 (0)
OTHER	23	224	0	0	26	6	0	0	17	0 (0)
TOTAL R (%)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0
TOTAL NR (%)	44 (4)	786 (74)	0	0	73 (7)	18 (2)	0	24 (2)	81 (8)	1063
GRAND TOTAL (%)	44 (4)	786 (74)	0	0	73 (7)	18 (2)	0	24 (2)	81 (8)	1063

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-01)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW YORK

PART D	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	5	TOTALS FOR ALL YEARS (\$)
	368	3565	1156	876	2448	847	355	40 (68)	9615 (54)		
VALVE	R NR	0 24	1 215	0 81	0 170	0 84	0 121	1 70	0 765 (4)		
FITTING	R NR	0 94	4 720	0 91	0 160	0 77	4 112	0 105	0 1389 (8)		
DRIP	R NR	0 27	0 334	0 65	1 68	1 42	1 19	0 10	0 565 (3)		
REGULATOR	R NR	0 1	0 3	0 1	0 6	0 2	0 1	0 6	2 20 (0)		
TAP CONNECTION	R NR	0 7	0 798	0 27	0 26	0 11	0 9	0 18	0 896 (5)		
OTHER	R NR	0 224	3 2550	0 980	0 411	0 194	0 92	0 131	0 4582 (26)		
TOTAL R (\$)		2 (3)	22 (37)	2 (3)	4 (7)	14 (24)	8 (14)	7 (12)	59		
TOTAL NR (\$)		745 (4)	8185 (46)	2401 (13)	1286 (7)	3289 (18)	1201 (7)	695 (4)	17802		
GRAND TOTAL (\$)		747 (4)	8207 (46)	2403 (13)	1290 (7)	3303 (18)	1209 (7)	702 (4)	17861		

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR RHODE ISLAND

PART D	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)	
											0
VALVE	R NR	0 0	0 0	0 20	0 21	0 30	0 30	0 30	0 11	0 130	0 (6)
FITTING	R NR	0 1	0 55	0 42	0 20	0 13	0 10	0 2	0 143	0 (7)	
DRIP	R NR	0 0	0 64	0 7	0 12	0 14	0 33	0 16	0 146	0 (7)	
REGULATOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0)	
MAINS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R NR	0 4	0 350	0 9	0 8	0 3	0 5	0 40	0 419	0 (21)	
TAP CONNECTION	R NR	0 0	0 16	0 2	0 1	0 1	0 6	0 0	0 26	0 (1)	
OTHER	R NR	0 4	0 350	0 9	0 8	0 3	0 5	0 40	0 419	0 (21)	
TOTAL R (\$)		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0	
TOTAL NR (\$)		18 (1)	1182 (58)	175 (9)	235 (12)	160 (8)	171 (8)	101 (5)	2042		
GRAND TOTAL (\$)		18 (1)	1182 (58)	175 (9)	235 (12)	160 (8)	171 (8)	101 (5)	2042		

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 1

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
PIPE	R 58 NR 4971	142 19033	66 5824	59 6395	47 10842	12 3968	22 1352	406 (67) 52285 (64)
VALVE	R 0 NR 168	1 535	2 242	0 221	0 597	2 472	3 275	8 (1) 2810 (3)
FITTING	R 18 NR 977	18 4288	5 765	4 572	4 1143	5 824	12 360	66 (11) 8929 (11)
DRIP	R 0 NR 193	1 827	0 161	3 118	1 262	1 145	0 77	6 (1) 1783 (2)
REGULATOR	R 1 NR 20	0 30	0 13	0 20	1 46	1 42	110 21	113 (19) 192 (0)
TAP CONNECTION	R 3 NR 56	3 897	0 54	0 37	1 77	1 66	0 56	8 (1) 1243 (2)
OTHER	R 0 NR 2368	3 7892	0 1464	0 910	0 1144	0 409	0 328	3 (0) 14515 (18)
TOTAL R (\$)	80 (13)	168 (28)	73 (12)	66 (11)	54 (9)	22 (4)	147 (24)	610
TOTAL NR (\$)	8653 (11)	33502 (41)	8523 (10)	8273 (10)	14111 (17)	5926 (7)	2469 (3)	81457
GRAND TOTAL (\$)	8733 (11)	33670 (41)	8596 (10)	8339 (10)	14165 (17)	5948 (7)	2616 (3)	82067

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR DELAWARE

PART E	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)					
											0	9	0	4	0
	R		0	0	0	0	0	0	0	0 (0)					
	NR		9	4	13	76	152	109	25	388 (81)					
	R	VALVE	0	0	0	0	0	0	0	0 (0)					
	NR		0	0	0	1	7	2	1	11 (2)					
	R	FITTING	0	0	0	0	0	0	0	0 (0)					
	NR		0	1	1	6	15	31	7	61 (13)					
	R	DRIP	0	0	0	0	0	0	0	0 (0)					
	NR		0	0	0	0	0	0	0	0 (0)					
	R	REGULATOR	0	0	0	0	0	0	0	0 (0)					
	NR		0	0	0	0	0	0	0	0 (1)					
	R	TAP	0	0	0	0	0	0	0	0 (0)					
	NR	CONNECTION	1	0	1	2	5	6	3	18 (4)					
	R	OTHER	0	0	0	0	0	0	0	0 (0)					
	NR		0	0	0	0	0	0	0	0 (0)					
		TOTAL R	0	0	0	0	0	0	0	0					
		(%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)					
		TOTAL NR	10	5	15	85	179	148	36	478					
		(%)	(2)	(1)	(3)	(18)	(37)	(31)	(8)	(13)					
		GRAND TOTAL	10	5	15	85	179	148	36	478					
		(%)	(2)	(1)	(3)	(18)	(37)	(31)	(8)	(13)					

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MAINE

PART E	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)	
									R	NR
	PIPE	0	0	0	0	0	0	0	0	0 (0)
		0	58	18	7	11	12	16	122	(76)
	VALVE	0	0	0	0	0	0	0	0	0 (0)
		0	0	1	0	0	0	0	1	(1)
	FITTING	0	0	0	0	0	0	0	0	0 (0)
		0	7	3	4	1	3	4	22	(14)
	DRIP	0	0	0	0	0	0	0	0	0 (0)
		0	0	0	0	0	1	0	1	(1)
	REGULATOR	0	0	0	0	0	0	0	0	0 (0)
		0	0	0	0	0	2	1	3	(1)
	TAP SERVICES REPAIRED DURING YEAR (BY YEAR INSTALLED)	0	0	0	0	0	0	0	0	0 (0)
	CONNECTION	0	2	1	0	0	0	0	3	(2)
	OTHER	0	0	0	0	0	0	0	0	0 (0)
		0	5	1	2	0	1	0	9	(6)
	TOTAL R (\$)	0	0	0	0	0	0	0	0	0
	TOTAL NR (\$)	0	72	24	13	12	19	21	161	
	GRAND TOTAL (\$)	0	(45)	(15)	(8)	(7)	(12)	(13)	161	
		0	72	24	13	12	19	21	161	
		0	(45)	(15)	(8)	(7)	(12)	(13)		

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 91.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MASSACHUSETTS

PART E	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
			732	1149	1	0	0	1	274	3562 (86)
	R NR	VALVE	0	2	1	0	0	0	0	3 (20)
			27	25	37	16	32	17	15	169 (4)
	R NR	FITTING	0	0	0	0	0	0	0	0 (0)
			18	56	24	9	24	49	43	223 (5)
	R NR	DRIP	0	0	0	0	0	0	0	0 (0)
			3	6	2	1	0	0	1	13 (0)
	R NR	REGULATOR	0	0	0	0	0	0	0	0 (0)
			0	3	0	1	1	9	5	19 (1)
	R NR	TAP CONNECTION	0	1	0	0	1	0	0	2 (13)
			3	49	28	8	15	25	9	137 (3)
	R NR	OTHER	0	0	0	0	0	0	0	0 (0)
			1	5	1	0	1	3	0	11 (0)
		TOTAL R (\$)	0	9	2	0	2	1	1	15
			(0)	(60)	(13)	(0)	(13)	(7)	(7)	
		TOTAL NR (\$)	784	1293	497	263	415	535	347	4134
			(19)	(31)	(12)	(6)	(10)	(13)	(8)	
		GRAND TOTAL (\$)	784	1302	499	263	417	536	348	4149
			(19)	(31)	(12)	(6)	(10)	(13)	(8)	

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW JERSEY

PART E	PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU			1940 THRU		1950 THRU		1960 THRU		1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
					1939	1938	1937	1949	1948	1959	1958	1969	1968		
			0	2	1	0	0	3	2	1	9	1	9	(90)	
		NR	238	1998	646	771	1819	981	502	6955	(77)				
	VALVE	R	0	0	0	0	0	0	0	0	0	0	0	0	
		NR	100	36	38	69	222	208	44	717	(8)				
	FITTING	R	0	0	0	0	0	0	1	0	1	0	1	(10)	
		NR	123	37	30	66	206	268	185	915	(10)				
	DRIP	R	0	0	0	0	0	0	0	0	0	0	0	0	
		NR	4	5	2	3	3	3	3	23	(0)				
	REGULATOR	R	0	0	0	0	0	0	0	0	0	0	0	0	
		NR	26	3	2	16	54	42	6	149	(2)				
	TAP CONNECTION	R	0	0	0	0	0	0	0	0	0	0	0	0	
		NR	8	10	7	11	33	51	27	147	(2)				
	OTHER	R	0	0	0	0	0	0	0	0	0	0	0	0	
		NR	26	17	5	2	14	25	31	120	(1)				
	TOTAL R (%)		(0)	(20)	(10)	(0)	(30)	(30)	(10)	1	10				
	TOTAL NR (%)		525	2106	730	938	2351	1578	798	9026					
			(6)	(23)	(8)	(10)	(26)	(17)	(9)						
	GRAND TOTAL (%)		525	2108	731	938	2354	1581	799	9036					
			(6)	(23)	(8)	(10)	(26)	(17)	(9)						

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR PENNSYLVANIA

PART E	PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
			44	41	1720	2261	4258	1944	1085	23219 (78)
			2120	9831						
	VALVE	R NR	34 63	0 119	0 39	0 72	0 246	0 400	0 377	34 (12) 1316 (4)
	FITTING	R NR	58 338	2 400	0 144	0 195	0 449	0 523	19 530	79 (28) 2579 (9)
	DRIP	R NR	0 0	0 0	0 0	0 0	0 2	0 2	0 6	0 (0) 10 (0)
	REGULATOR	R NR	1 5	0 4	0 10	0 11	0 21	0 23	1 79	2 (1) 153 (1)
	TAP CONNECTION	R NR	4 44	0 89	0 27	0 26	0 55	0 46	0 77	4 (1) 364 (1)
	OTHER	R NR	19 212	0 340	0 123	0 132	0 295	0 368	7 587	26 (9) 2057 (7)
	TOTAL R (\$)		160 (57)	43 (15)	24 (8)	18 (6)	9 (3)	2 (1)	27 (10)	283
	TOTAL NR (\$)		2782 (9)	10783 (36)	2063 (7)	2697 (9)	5326 (18)	3306 (11)	2741 (9)	29698
	GRAND TOTAL (\$)		2942 (10)	10826 (36)	2087 (7)	2715 (9)	5335 (18)	3308 (11)	2768 (9)	29981

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WEST VIRGINIA

PART E	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
PIPE	0	1003	0	0	0	0	0	0	0
VALVE	0	86	0	0	1	0	0	0	0
FITTING	0	242	0	0	0	0	0	0	0
D RIP	0	0	0	0	0	0	0	0	0
REGULATOR	4	44	0	0	0	0	0	0	0
TAP CONNECTION	0	37	0	0	0	0	0	0	0
OTHER	0	13	0	0	0	0	0	0	0
TOTAL R (%)	4	(40)	(0)	(0)	(10)	(0)	(0)	0	10
TOTAL NR (%)	1425	(50)	149	161	170	422	338	210	2875
GRAND TOTAL (%)	1429	(50)	149	161	171	422	338	215	2885

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CONNECTICUT

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	63	483	118	159	231	138	8	1200(40)
DAMAGE BY OUTSIDE FORCES	67	182	63	45	100	123	208	788(27)
CONSTRUCTION DEFECT	4	0	0	0	0	8	2	14(0)
MATERIAL FAILURE	32	1	0	0	0	6	0	39(1)
OTHER	4	485	123	94	72	84	60	922(31)
TOTAL (%)	170 (6)	1151 (39)	304 (10)	298 (10)	403 (14)	359 (12)	278 (9)	2963

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL	TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"		
STEEL	38	670	948	832	376	30	181	34	3109 (57)
WROUGHT IRON	0	17	10	8	3	1	0	0	39 (1)
CAST IRON	0	0	972	849	149	56	145	35	2206 (40)
DUCTILE IRON	0	0	7	13	1	0	0	0	21 (0)
COPPER	0	0	0	0	0	0	0	0	0 (0)
PLASTIC	1	65	43	13	3	0	0	0	125 (2)
OTHER	0	0	0	0	0	0	0	0	0 (0)
SYSTEM (%)	39 (1)	752 (14)	1980 (36)	1715 (31)	532 (10)	87 (2)	326 (6)	69 (1)	5500

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR DISTRICT OF COLUMBIA

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	111	331	475	718	1544	931	45	4155 (38)
DAMAGE BY OUTSIDE FORCES	54	163	50	39	142	369	335	1152 (10)
CONSTRUCTION DEFECT	29	0	0	3	12	137	193	374 (3)
MATERIAL FAILURE	61	1257	286	43	78	423	7	2155 (20)
OTHER	109	166	97	175	1322	1161	141	3171 (29)
TOTAL (%)	364 (3)	1917 (17)	908 (8)	978 (9)	3098 (28)	3021 (27)	721 (7)	11007

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	OVER 12"	TOTAL	TOTAL (%)
STEEL	0	2255	850	780	421	3	362	191	4862	(80)
WROUGHT IRON	0	0	0	0	0	0	0	0	0	(0)
CAST IRON	0	1	329	327	46	2	91	39	835	(14)
DUCTILE IRON	0	0	0	0	0	0	0	0	0	(0)
COPPER	0	0	0	0	0	0	0	0	0	(0)
PLASTIC	0	302	80	1	0	0	0	0	383	(6)
OTHER	0	0	0	0	0	0	0	0	0	(0)
SYSTEM (%)	0 (0)	2558 (42)	1259 (21)	1108 (18)	467 (8)	5 (0)	453 (7)	230 (4)	6080	

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MARYLAND

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU				1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
			1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969			
CORROSION	1279	661	400	548	959	937	340	5124 (56)	
DAMAGE BY OUTSIDE FORCES	52	92	39	47	64	123	150	567 (6)	
CONSTRUCTION DEFECT	90	91	31	31	119	253	295	910 (10)	
MATERIAL FAILURE	206	848	167	132	97	117	96	1663 (18)	
OTHER	30	75	28	24	143	319	218	837 (9)	
TOTAL (\$)	1657 (18)	1767 (19)	665 (7)	782 (9)	1382 (15)	1749 (19)	1099 (12)	9101	

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS		NOMINAL SIZE				OVER 12" TOTAL	TOTAL (\$)
	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"		
STEEL	196	1363	1349	434	153	26	83	3666 (45)
WROUGHT IRON	1	2	4	0	0	0	0	7 (0)
CAST IRON	0	0	513	651	98	50	123	1582 (19)
DUCTILE IRON	0	0	0	2	0	0	0	2 (0)
COPPER	0	0	0	0	0	0	0	0 (0)
PLASTIC	1	1326	1523	75	0	0	0	2925 (36)
OTHER	0	0	0	0	0	0	0	0 (0)
SYSTEM (\$)	198 (2)	2691 (33)	3389 (41)	1162 (14)	251 (3)	76 (1)	206 (3)	8182 (3)

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW HAMPSHIRE

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
CORROSION	14	95	32	14	24	46	6	231 (16)
DAMAGE BY OUTSIDE FORCES	18	61	18	3	21	90	59	270 (19)
CONSTRUCTION DEFECT	20	24	2	0	1	6	0	53 (4)
MATERIAL FAILURE	1	407	20	2	5	22	43	500 (35)
OTHER	30	284	36	8	6	16	7	387 (27)
TOTAL (%)	83 (6)	871 (60)	108 (7)	27 (2)	57 (4)	180 (12)	115 (8)	1441

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	
STEEL	10	293	179	342	38	10	0	873 (71)
WROUGHT IRON	0	32	28	6	1	1	0	68 (5)
CAST IRON	0	6	174	70	21	3	2	279 (23)
DUCTILE IRON	0	0	0	0	0	0	0	0 (0)
COPPER	0	0	0	0	0	0	0	0 (0)
PLASTIC	0	8	6	2	1	0	0	17 (1)
OTHER	0	0	0	0	0	0	0	0 (0)
SYSTEM (%)	10 (1)	339 (27)	387 (31)	420 (34)	61 (5)	14 (1)	2 (0)	1237

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW YORK

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	3210	7397	2821	2315	5184	2594	921	24442(31)
DAMAGE BY OUTSIDE FORCES	860	1109	171	116	352	595	751	3954(5)
CONSTRUCTION DEFECT	83	183	38	41	118	4890	3994	9347(12)
MATERIAL FAILURE	709	7902	620	392	855	3731	2958	17167(22)
OTHER	2368	15628	1053	459	1395	1384	1069	23356(30)
TOTAL (%)	7230 (9)	32219 (41)	4703 (6)	3323 (4)	7904 (10)	13194 (17)	9693 (12)	78266

PART G	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	OVER 12"	TOTAL	TOTAL (%)
STEEL	247	7078	8638	4072	1591	330	732	337	23025	(75)
WROUGHT IRON	3	110	278	161	60	0	14	1	627	(2)
CAST IRON	0	1	1410	2946	618	128	510	356	5969	(19)
DUCTILE IRON	0	0	0	0	0	0	0	0	0	(0)
COPPER	0	0	0	0	0	0	0	0	0	(0)
PLASTIC	3	816	303	51	0	0	1	0	1174	(4)
OTHER	0	1	5	3	0	0	0	0	9	(0)
SYSTEM (%)	253 (1)	8006 (26)	10634 (35)	7233 (23)	2269 (7)	458 (1)	1257 (4)	694 (2)	30804	

MILES OF MAINS IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR RHODE ISLAND

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	2	541	154	242	219	183	131	1472(39)
DAMAGE BY OUTSIDE FORCES	4	210	32	61	65	50	78	500(13)
CONSTRUCTION DEFECT	0	16	0	10	3	8	5	42(1)
MATERIAL FAILURE	0	38	66	22	14	8	24	172(5)
OTHER	368	848	78	124	83	75	59	1635(43)
TOTAL (%)	374 (10)	1653 (43)	330 (9)	459 (12)	384 (10)	324 (8)	297 (8)	3821

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	NOMINAL SIZE					TOTAL	TOTAL (%)
		OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"		
STEEL	1	1029	443	417	197	6	41	2284 (56)
WROUGHT IRON	0	0	0	0	0	0	0	0 (0)
CAST IRON	1	13	736	698	56	9	87	1727 (42)
DUCTILE IRON	0	0	9	7	1	0	0	18 (0)
COPPER	0	0	0	0	0	0	0	0 (0)
PLASTIC	0	57	17	1	0	0	0	75 (2)
OTHER	0	0	0	0	0	0	0	0 (0)
SYSTEM (%)	2 (0)	1099 (27)	1205 (29)	1123 (27)	254 (6)	15 (0)	128 (3)	4104

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR VIRGINIA

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
CORROSION								
DAMAGE BY OUTSIDE FORCES	33	98	61	81	106	255	249	883 (9)
CONSTRUCTION DEFECT	25	5	13	14	46	82	66	251 (2)
MATERIAL FAILURE	1659	86	42	250	686	730	210	3663 (36)
OTHER	362	106	37	51	132	177	72	937 (9)
TOTAL (\$)	2629 (26)	737 (7)	435 (4)	909 (9)	2625 (26)	2153 (21)	731 (7)	10219

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	NOMINAL SIZE					TOTAL	TOTAL (%)	
		OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"			12"
STEEL	30	2568	865	457	156	15	86	43	4220 (70)
WROUGHT IRON	4	27	11	0	0	0	0	0	42 (1)
CAST IRON	0	4	694	352	137	39	73	11	1310 (22)
DUCTILE IRON	0	0	41	30	49	3	31	0	154 (3)
COPPER	3	16	6	0	0	0	0	0	25 (0)
PLASTIC	2	221	41	4	0	0	0	0	268 (4)
OTHER	0	0	0	0	0	0	0	0	0 (0)
SYSTEM (\$)	(1)	2836 (47)	1658 (28)	843 (14)	342 (6)	57 (1)	190 (3)	54 (1)	6019

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 1

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
CORROSION	11867	31765	10692	12377	22845	10756	3197	103499 (49)
DAMAGE BY OUTSIDE FORCES	1805	3535	886	753	1587	2752	3281	14599 (7)
CONSTRUCTION DEFECT	576	460	140	187	536	5638	4884	12421 (6)
MATERIAL FAILURE	5226	13507	1799	1224	2730	5783	3854	34123 (16)
OTHER	4219	26169	2268	1763	4694	4993	3185	47291 (22)
TOTAL (\$)	23693 (11)	75436 (36)	15785 (7)	16304 (8)	32392 (15)	29922 (14)	18401 (9)	211933

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	OVER 12"	TOTAL	TOTAL (\$)
STEEL	823	32916	29938	14570	6401	970	3097	1488	90203	(68)
WROUGHT IRON	45	730	1020	447	120	15	21	7	2405	(2)
CAST IRON	9	151	13164	11403	2559	565	2212	1599	31662	(24)
DUCTILE IRON	0	3	182	137	65	3	36	0	426	(0)
COPPER	3	24	10	0	0	0	0	0	37	(0)
PLASTIC	47	4780	3297	252	6	1	1	0	8384	(6)
OTHER	4	7	20	9	1	0	0	0	41	(0)
SYSTEM (\$)	931 (1)	38611 (29)	47631 (36)	26818 (20)	9152 (7)	1554 (1)	5367 (4)	3094 (2)	133158	

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR DELAWARE

PART H	UNKNOW	OVER 1/2" OR LESS					OVER 2" THRU 4"		OVER 4" THRU 6"		OVER 6"	TOTALS (%)
		0	0	41281	14984	244	11	1				
STEEL	0	0	0	0	0	0	0	0	0	0	56521 (67)	
CAST IRON	0	0	0	0	0	0	0	0	0	0	(0)	
COPPER	0	2347	5433	0	0	0	0	0	0	0	7780 (9)	
PLASTIC	0	7377	13089	34	28	11	0	0	0	0	20539 (24)	
OTHER	0	0	0	0	0	0	0	0	0	0	(0)	
TOTAL SYSTEM (%)	(0)	9724 (11)	58803 (70)	15018 (18)	272 (0)	22 (0)	1 (0)	1 (0)	1 (0)	1 (0)	84840	

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MAINE

PART H NUMBER OF SERVICES IN SYSTEM AT END OF YEAR	UNKNOWN	1/2" OR LESS				OVER 1/2" THRU 1"		OVER 1" THRU 2"		OVER 2" THRU 4"		OVER 4" THRU 6"		OVER 6"	TOTALS (Σ)
		0	0	3664	4962	46	51	3	8726 (71)						
STEEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAST IRON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CUPPER	0	0	0	25	0	0	0	0	0	0	0	0	0	25	0
PLASTIC	0	670	2448	417	10	0	0	0	0	0	0	0	0	3545	0
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL SYSTEM (Σ)	0 (0)	670 (5)	6112 (50)	5404 (44)	56 (0)	51 (0)	3 (0)	8726 (71)	0	0	0	0	0	12296	0

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MASSACHUSETTS

PART H	STEEL	UNKINDWN	1/2" JK LESS	OVER 1/2" THRU 1"	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	OVER 6"	TOTALS (#)
	51358	0	235503	472176	32445	730	179		832431 (92)
CAST IRON	0	0	510	7095	49	34	7		7695 (1)
COPPER	0	7353	8037	1607	0	0	0		16997 (2)
PLASTIC	0	5941	29699	6850	209	12	1		42712 (5)
OTHER	0	0	0	1007	0	0	0		1007 (0)
TOTAL SYSTEM (#)	51398 (10)	13294 (1)	273749 (30)	488735 (54)	32703 (4)	776 (0)	187 (0)		900842

NUMBER
 OF
 SERVICES
 IN
 SYSTEM
 AT END
 OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW JERSEY

PART H	UNKNOW	OVER 1/2"				OVER 1"		OVER 2"		OVER 4"		TOTALS (#)
		1/2" OR LESS	THRU 1"	THRU 1 1/2"	THRU 2"	THRU 1"	THRU 2"	THRU 4"	THRU 6"	OVER 6"		
STEEL	0	23102	1040748	151310	8455	422	83	1224120 (83)				
CAST IRON	0	0	0	0	139	42	11	192 (0)				
CUPPER	0	4179	86499	376	376	0	0	91430 (6)				
PLASTIC	0	9930	152903	3072	44	0	0	165949 (11)				
OTHER	0	0	0	0	13	2	0	15 (0)				
TOTAL SYSTEM (#)	0 (0)	37211 (3)	1280150 (86)	154758 (10)	9027 (1)	466 (0)	94 (0)	1481706				

NUMBER
 OF
 SERVICES
 IN
 SYSTEM
 AT END
 OF YEAR

OUT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DGT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR PENNSYLVANIA

PART H	STEEL	JUNKY	1/2" JK LESS	OVER 1/2"		OVER 1"		OVER 2"		OVER 4"		TOTALS (\$)
				THRU 1"	THRU 2"	THRU 2"	THRU 4"	THRU 4"	THRU 6"	OVER 6"		
	5229	280	306366	1207068	12475	1316	357	1533091	(79)			
CAST IRON	1207	0	0	7	6	0	0	1220	(0)			
LOPPER	0	14774	46754	4837	0	0	0	66365	(3)			
PLASTIC	376	77363	228602	27514	567	31	10	334463	(17)			
OTHER	3358	1739	1535	43	1	0	0	6676	(0)			
TOTAL SYSTEM (\$)	10170	94156	583257	1239469	13049	1347	367	1941815	(0)			

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR VERMONT

PART H	UNKNOWN	1/2" OR LESS		OVER 1/2" THRU 1"		OVER 1" THRU 2"		OVER 2" THRU 4"		OVER 4" THRU 6"		OVER 6"		TOTALS (%)
		2	4	3763	10806	175	8	0	0	0	0	14758 (97)		
STEEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LAST IRON	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CUPPER	0	155	158	0	0	0	0	0	0	0	0	0	0	313 (2)
PLASTIC	0	0	32	100	0	0	0	0	0	0	0	0	0	132 (1)
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL SYSTEM (%)	(0)	(1)	3953 (26)	10906 (72)	175 (1)	8 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	15203

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

OUT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DCT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WEST VIRGINIA

PART H	STEEL	UNKNOW	1/2" OR LESS	OVER 1/2" THRU 1"	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	OVER 6"	TOTALS (%)
	27656	33	48679	62180	2960	16	0	141532	(90)
CAST IRON	0	0	0	0	0	0	0	0	(0)
COPPER	0	0	6	0	0	0	0	6	(0)
PLASTIC	1	40	7079	8063	372	0	0	15555	(10)
OTHER	0	0	0	0	0	0	0	0	(0)
TOTAL SYSTEM (%)	27657 (18)	73 (0)	55764 (35)	70243 (45)	3340 (2)	16 (0)	0 (0)	157093	

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DUT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CONNECTICUT

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES OF MAINS SERVICES INSTALLED DURING YEAR	18	12	30	MILES AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	2136	2646	4782	NUMBER OF SERVICES	1697
					2066

PART P	MAINS	SERVICES
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	338	29

PART Q	FATALITIES	NUMBER OF FIRES	3
NUMBER OF EMPLOYEE(S) OF OPERATOR	0	NUMBER OF EXPLOSIONS	0
SUFFERING LOST TIME INJURIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
FATALITIES	0	ESTIMATED OPERATOR	\$ 217661
SUFFERING LOST TIME INJURIES	0	AGGREGATE VALUE OF PROPERTY DAMAGE TO:	
FATALITIES	0	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 53713
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	0	TOTAL ESTIMATED VALUE	\$ 271374
TOTALS	0		
FATALITIES	0		
INJURIES	0		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR DISTRICT OF COLUMBIA

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES AND SERVICES INSTALLED DURING YEAR	11	32	43	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	970	11672	12642	NUMBER OF SERVICES	2167
PART P				11062	

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

MAINS	148
SERVICES	36

PART U	FATALITIES	NUMBER OF FIRES	8
NUMBER OF EMPLOYEE(S) OF OPERATOR	0	NUMBER OF EXPLOSIONS	5
SUFFERING LOST TIME INJURIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	3

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	FATALITIES	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	OPERATOR	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	TOTAL ESTIMATED VALUE
NUMBER OF EMPLOYEE(S) OF CONTRACTORS	0	0	\$ 5843861	310000	\$ 6153861
NUMBER OF NON- EMPLOYEE(S)	0	0			
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	5	5			

TOTALS	FATALITIES	INJURIES
	0	5

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FJR CALENDAR YEAR 1978

SUMMARY FOR MARYLAND

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES AND SERVICES INSTALLED DURING YEAR	1	9	10	MILES OF SERVICES RETAINED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
	196	10082	10278		5
				NUMBER OF SERVICES	1754
					2580

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

MAINS	173
SERVICES	337

PART U	NUMBER OF EMPLOYEES OF OPERATOR	FATALITIES	0	NUMBER OF FIRES	0
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR		SUFFERING LOST TIME INJURIES	0	NUMBER OF EXPLOSIONS	2
		FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
		SUFFERING LOST TIME INJURIES	0	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 3559926
		FATALITIES	0	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 53001
		INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN UN-SITE FIRST AID	2	TOTAL ESTIMATED VALUE	\$ 3612927
		FATALITIES	0		
		INJURIES	2		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW YORK

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES OF MAINS SERVICES	139	155	294	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	8912	33384	42296	NUMBER OF SERVICES	9009

PART P

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

MAINS	2910
SERVICES	741

PART Q

	NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	0	NUMBER OF FIRES	14
SUFFERING LOST TIME INJURIES		4		NUMBER OF EXPLOSIONS	10
FATALITIES		0		NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	1
SUFFERING LOST TIME INJURIES		0		ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 3434027
FATALITIES		1		OPERATOR	
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN UN-SITE FIRST AID		7		OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 1513279
TOTALS		1		TOTAL ESTIMATED VALUE	\$ 4947306
INJURIES		11			

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FJR CALENDAR YEAR 1978

SUMMARY FOR RHODE ISLAND

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES AND SERVICES INSTALLED DURING YEAR	44	4	48	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	3516	1145	4661	NUMBER OF SERVICES	961

PART P	NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	MAINS SERVICES
		336
		217

PART U	NUMBER OF EMPLOYEES OF OPERATOR	FATALITIES SUFFERING LOST TIME INJURIES	NUMBER OF FIRES
		0	2
		0	0

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEES OF CONTRACTORS	FATALITIES SUFFERING LOST TIME INJURIES	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	OPERATOR	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR
		0	0	\$	2658299	7306

TOTALS	FATALITIES	INJURIES	TOTAL ESTIMATED VALUE
	0	0	\$ 2665605

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR VIRGINIA

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES OF MAINS SERVICES INSTALLED DURING YEAR	18	23	41	MILES OF MAINS SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	1803	2097	3900	NUMBER OF SERVICES	2157

PART P	MAINS	SERVICES
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	3009	1332

PART Q	FATALITIES	NUMBER OF FIRES	2
NUMBER OF EMPLOYEE(S) OF OPERATOR	0	NUMBER OF EXPLOSIONS	0
SUFFERING LOST TIME INJURIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	1
FATALITIES	0	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 2613239
SUFFERING LOST TIME INJURIES	0	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 26800
FATALITIES	0	TOTAL ESTIMATED VALUE	\$ 2640039
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	0		
TOTALS	0		
FATALITIES	0		
INJURIES	0		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 1

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MAINS AND SERVICES INSTALLED DURING YEAR	614	724	1338	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	50096	134514	184610	NUMBER OF SERVICES	40546

PART P	NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	MAINS SERVICES
		11509
		4506

PART Q	FATALITIES	NUMBER OF FIRES
NUMBER OF EMPLOYEE(S) OF OPERATOR	0	61
SUFFERING LOST TIME INJURIES	19	41

PART R	FATALITIES	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	0	6
NUMBER OF EMPLOYEE(S) OF CONTRACTORS	4	
SUFFERING LOST TIME INJURIES	6	
FATALITIES		ESTIMATED OPERATOR \$ 25861835
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	68	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR \$ 4283391

TOTALS	FATALITIES	INJURIES
	6	91
		TOTAL ESTIMATED VALUE \$ 30145226

3.1.2 Transmission/Gathering Systems

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MASSACHUSETTS

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1960	534	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1960 THRU 1969	366	.00	0	.00	1	.00	0	.00	0	.00	2	.01
1970 TO END OF REPORTING YEAR	23	.00	0	.00	0	.00	0	.00	0	.00	0	.00
OVER ALL YEARS	923	.00	0	.00	1	.00	0	.00	0	.00	2	.00

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW JERSEY

TOTAL MILES OF MAIN	***** CORROSION *****		***** DAMAGE BY OUTSIDE FORCE *****		***** LEAKS REPAIRED DURING CONSTRUCTION DEFECT *****		***** YEAR BY CAUSE MATERIAL FAILURE *****		***** OTHER *****		***** TOTAL *****	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PKIOR TO 1960	58	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1960 THRU 1969	76	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1970 TO END OF REPORTING YEAR	39	.00	0	.00	0	.00	0	.00	0	.00	0	.00
OVER ALL YEARS	173	.00	0	.00	0	.00	0	.00	0	.00	0	.00

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR PENNSYLVANIA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION DEFECT		YEAR BY CAUSE MATERIAL FAILURE		OTHER NO.	PER MILE	TOTAL NO.	PER MILE
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE				
YEAR UNKNOWN	773	.19	26	.03	0	.00	1	.00	1	.00	176	.23
PRIOR TO 1960	4145	.77	34	.01	17	.00	323	.08	107	.03	3680	.89
1960 THRU 1969	1142	.13	1	.00	0	.00	0	.00	1	.00	147	.13
1970 TO END OF REPORTING YEAR	701	.03	0	.00	0	.00	1	.00	4	.01	29	.04
OVER ALL YEARS	6761	.52	61	.01	17	.00	325	.05	113	.02	4032	.60

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR VIRGINIA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION		YEAR BY CAUSE		OTHER		TOTAL	
	NJ.	PER MILE	NJ.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIGR TO 1960	398	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1960 THRU 1969	197	.00	0	.00	0	.00	0	.00	2	.01	2	.01
1970 TO END OF REPORTING YEAR	73	.00	0	.00	0	.00	0	.00	0	.00	0	.00
OVER ALL YEARS	668	.00	0	.00	0	.00	0	.00	2	.00	2	.00

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 1

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		LEAKS REPAIRED DURING YEAR BY CAUSE		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	5894	0.16	56	0.01	2	0.00	12	0.00	73	0.01	1067	0.18		
PRIOR TO 1962	14868	0.35	103	0.01	28	0.00	370	0.02	482	0.03	6121	0.41		
1962 THRU 1969	6894	0.03	14	0.00	2	0.00	0	0.00	7	0.00	230	0.03		
1970 TO END OF REPORTING YEAR	3502	0.03	8	0.00	13	0.00	4	0.00	43	0.01	163	0.05		
OVER ALL YEARS	31158	0.20	181	0.01	45	0.00	386	0.01	605	0.02	7581	0.24		

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW YORK

PART B	DESCRIPTION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUCTION DATE	TRANSMISSION	GATHERING	UNKNOWN	PRIOR TO 1950	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
	TRANSMISSION		0	0	0	0	40	35	331	250	66	722
	GATHERING		0	0	0	0	0	0	2	3	11	16
	TRANSMISSION	MILES OF COATED PIPE BY COATING DATE	0	0	0	11	35	304	250	80	680	
	GATHERING		0	0	0	0	0	0	0	0	11	11
PART C			0	0	0	0	0	0	0	0	0	0
	TRANSMISSION	MILES OF COATED PIPE BY PROTECTION DATE	0	0	0	0	35	300	230	115	680	
	GATHERING		0	0	0	0	0	0	0	0	11	11
	TRANSMISSION	MILES OF BARE PIPE BY PROTECTION DATE	0	0	0	0	0	0	0	0	34	34
	GATHERING		0	0	0	0	0	0	0	0	5	5
	TRANSMISSION		0	0	0	0	35	300	230	149	714	
	GATHERING		0	0	0	0	0	0	0	0	(21)	16
	TOTAL (%)		(0)	(0)	(0)	(0)	(5)	(42)	(32)	(0)	(100)	

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WEST VIRGINIA

PART B	DESCRIP- TION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUC- TION DATE	TRANS- MISSION	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
			4072	641	491	1136	4021	4107	1931		16399
			155	37	41	49	33	46	162		523
			359	141	0	384	3299	3910	1898		9991
			2	0	0	0	1	18	107		128
			37	141	0	232	2920	4184	2447		9961
			2	0	0	3	1	16	114		136
			4	0	0	100	251	650	2617		3622
			0	1	1	1	0	1	53		57
			41	141	0	332	3171	4834	5064		13583
			(0)	(1)	(0)	(2)	(23)	(36)	(37)		
			2	1	1	4	1	17	167		193
			(1)	(1)	(1)	(2)	(1)	(9)	(87)		

PART C

CATHOD- ICALLY PROTECT- ED SYSTEM	MILES OF BARE PIPE BY PROTECTION DATE	TRANS- MISSION	GATHER- ING	PART C TOTAL (%)
		37	141	0
		2	0	0
		4	0	0
		0	1	1
		41	141	0
		(0)	(1)	(0)
		2	1	1
		(1)	(1)	(1)

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CONNECTICUT

PART D	BODY OF PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
	BODY OF PIPE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	GIRTH WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	FITTING	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	TOTALS (%)	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	GRAND TOTAL (%)		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR DISTRICT OF COLUMBIA

PART D	UNKNWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)								
BODY OF PIPE	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
GIRTH WELD	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
FITTING	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
GAS CUDLER	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	R 0	0	0	0	0	0	0	0
NR	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
GRAND TOTAL (%)	R 0	0	0	0	0	0	0	0
NR	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MASSACHUSETTS

PART 0	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)								
BODY OF PIPE	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	1	0	1 (50)
GIRTH WELD	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	1	0	1 (50)
LONGITUDINAL WELD	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
VALVE	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
FITTING	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
GAS COOLER	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	0	0	0	0	0	0	0	0
NR	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
GRAND TOTAL (%)	0	0	0	0	0	0	0	2
NR	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)
	0	0	0	0	0	2	0	2
	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(0)

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW JERSEY

PART D	UNKNOW	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)								
BODY OF PIPE	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
GIRTH WELD	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
VALVE	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
FITTING	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
GAS COOLER	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
R	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
NR	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
GRAND TOTAL (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
R	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
NR	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100-2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR PENNSYLVANIA

PART D	BODY OF PIPE	R NR	UNKNJWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL	(%)
TRANSMIS- SION SYSTEM LEAKS	BODY OF PIPE	NR	41	800	39	105	49	9	2	1045	(74)
REPAIRED DURING YEAR (BY YEAR INSTALLED)	GIRTH WELD	R	0	0	0	0	0	0	0	0	(0)
	LONGITUDINAL WELD	R	0	0	0	0	0	0	0	0	(0)
	OTHER WELDS	R	0	0	0	0	0	0	0	0	(0)
	COMPRESSOR	R	0	0	0	0	0	0	0	0	(0)
	VALVE	R	1	21	4	1	2	0	0	29	(2)
	SCRAPER TRAP	R	0	0	0	0	0	0	0	0	(0)
	TAP	R	0	0	0	0	0	0	0	0	(0)
	CUNNECTION	NR	0	4	0	0	1	0	0	5	(0)
	FITTING	R	0	0	0	0	0	0	0	0	(0)
	GAS COULER	R	0	157	6	2	2	0	0	169	(12)
	OTHER	R	0	0	0	0	0	0	0	0	(0)
	TOTALS	R	3	124	47	3	55	11	1	244	
		NR	(1)	(51)	(19)	(1)	(23)	(5)	(0)		
	GRAND TOTAL		53	320	51	110	60	9	3	1406	
			(4)	(80)	(4)	(8)	(4)	(1)	(0)		
			56	1376	98	113	115	20	4	1650	
			(3)	(75)	(6)	(7)	(7)	(1)	(0)		

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DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR VIRGINIA

PART ID	BODY OF PIPE	R NR	JANUARY THRU	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMIS- SION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	BODY OF PIPE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	GIRTH WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	CUMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 (0) 1 (50)
	SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	FITTING	R NR	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 (0) 1 (50)
	GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	TOTALS (%)	R NR	(0) (0)	(0) (0)	(0) (0)	(0) (0)	(0) (0)	(0) (100)	(0) (0)	0 2
	GRAND TOTAL (%)	R NR	(0) (0)	(0) (0)	(0) (0)	(0) (0)	(0) (0)	(0) (100)	(0) (0)	0 2

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 1

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (#)
TRANSMISSION SYSTEM LEAKS	5	129	52	18	58	15	4	281 (88)
BODY OF PIPE	647	1778	316	226	161	34	65	3227 (80)
GIRTH WELD	0	2	4	2	0	0	0	8 (3)
LONGITUDINAL WELD	1	2	1	1	1	1	1	8 (0)
REPAIRED DURING YEAR	0	0	0	0	0	0	1	1 (0)
OTHER WELDS (BY YEAR INSTALLED)	1	0	1	0	1	0	0	3 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
VALVE	4	5	0	3	0	0	0	15 (0)
SCRAPER TRAP	18	27	14	2	6	1	1	69 (2)
CONNECTION	0	0	0	0	0	0	0	0 (0)
FITTING	1	11	4	1	2	2	1	2 (1)
GAS COOLER	36	235	12	8	8	4	7	301 (7)
OTHER	27	8	3	0	1	2	6	20 (6)
TOTALS (#)	0	0	0	0	0	0	0	0 (0)
GRAND TOTAL (#)	59	251	9	4	16	2	1	342 (9)
	6	141	59	20	62	18	13	319
	(2)	(44)	(18)	(6)	(19)	(6)	(4)	
	793	532	357	245	195	44	79	4022
	(20)	(57)	(9)	(6)	(5)	(1)	(2)	
	799	2701	416	265	257	62	92	4341
	(18)	(56)	(10)	(6)	(6)	(1)	(2)	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100,2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR DELAWARE

PART E	BODY OF PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	BODY OF PIPE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	GIRTH WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	FITTING	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	TOTALS (%)	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	GRAND TOTAL (%)		0	0	0	0	0	0	0	0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MARYLAND

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	0	0	0	0	0	0	0	0 (0)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
GIRTH WELD	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
VALVE	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
FITTING	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
GAS COOLER	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER	0	0	0	0	0	0	0	0 (0)
R	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	0	0	0	0	0	0	0	0
R	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
NR	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
GRAND TOTAL (%)	0	0	0	0	0	0	0	0
R	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
NR	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW HAMPSHIRE

PART E	UNKNOWN	PRIOR TO 1990	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELDS	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
FITTING	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TOTALS (%)	R 0	0	0	0	0	0	0	0
	NR (0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
GRAND TOTAL (%)	R 0	0	0	0	0	0	0	0
	NR (0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

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DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW YCRK

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
GIRTH WELD	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
VALVE	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
FITTING	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
GAS COOLER	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
NR	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
GRAND TOTAL (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0

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DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR VERMONT

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	0	0	0	0	0	0	0	0 (0)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	0	0	0	0	0	0	0	0 (0)
GIRTH WELD	0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
VALVE	0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
FITTING	0	0	0	0	0	0	0	0 (0)
GAS COOLER	0	0	0	0	0	0	0	0 (0)
OTHER	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
GRAND TOTAL (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0

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DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WEST VIRGINIA

PART E	UNKNOWN	PRIOR TO 1950	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	2	0	0	12	0	0	5	19 (95)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	135	00	161	114	56	38	4	588 (86)
GIRTH WELD	0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
VALVE	1	9	7	5	1	0	0	22 (5)
SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
CONNECTION	2	0	2	0	0	0	1	5 (1)
FITTING	0	1	12	4	2	0	7	27 (4)
GAS COOLER	0	0	0	0	0	0	0	0 (0)
OTHER	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	3	0	0	12	0	0	27	40 (6)
GRAND TOTAL (%)	149	90	182	137	62	38	44	702

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CONNECTICUT

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	PRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
DAMAGE BY OUTSIDE FORCE	0	0	0	0	0	0	(0)
CONSTRUCTION DEFECT	0	0	0	0	0	0	(0)
MATERIAL FAILURE	0	0	0	0	0	0	(0)
OTHER	0	0	0	0	0	0	(0)
TOTAL (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

PART G

BY
MATERIAL

STEEL (%) PLASTIC (%) OTHER (%)

TRANSMISSION
GATHERING

60 (100)
0 (0)

60
0

0 (0)

BY
NOMINAL
SIZE

TRANSMISSION
MISSION

GATHERING
MISSION

SYSTEM
TOTAL (%)

1" OR
LESS

0 (0)

2 (0)

10

0 (17)

32"

0 (0)

OVER 1"
THRU 2"

0 (0)

0 (0)

0

0 (0)

34"

0 (0)

OVER 2"
THRU 4"

2 (3)

2 (0)

0

0 (0)

36"

0 (0)

OVER 4"
THRU 6"

13 (22)

13 (0)

0

0 (0)

38"

0 (0)

8"

21 (35)

21 (0)

0

0 (0)

40"

0 (0)

10"

3 (5)

3 (0)

0

0 (0)

42"

0 (0)

12"

11 (18)

0 (0)

0

0 (0)

ABOVE
42"

0 (0)

14"

0 (0)

0 (0)

0

0 (0)

TOTAL

60 (100)

0 (0)

MILES OF PIPE
IN SYSTEM AT
END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR DISTRICT OF COLUMBIA

PART F	TOTAL LEAKS REPAIRED DURING YEAR BY CAUSE (NUMBER BY YEAR INSTALLED)	SUMMARY FOR DISTRICT OF COLUMBIA				1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
		UNKNOWN	PRIOR TC 1960	1960 THRU 1964	1965 THRU 1967		
	DAMAGE BY OUTSIDE FORCE	0	0	0	0	0	0
	CONSTRUCTION DEFECT	0	0	0	0	0	0
	MATERIAL FAILURE	0	0	0	0	0	0
	OTHER	0	0	0	0	0	0
	TOTAL (%)	(0)	(0)	(0)	(0)	(0)	(0)

PART G	BY MATERIAL	TRANSMISSION GATHERING	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL	SYSTEM	
							TRANSMISSION MISSION	GATHERING TOTAL (%)
	1" OR LESS	0	0	0	0	0	0	0
	OVER 1" THRU 2"	1	18"	0	0	34"	0	0
	OVER 2" THRU 4"	0	22"	0	0	36"	0	0
	OVER 4" THRU 6"	2	22"	10	0	38"	0	0
	6"	11	24"	35	0	40"	0	0
	10"	5	26"	0	0	42"	0	0
	12"	0	28"	0	0	ABOVE 42"	0	0
	14"	0	30"	16	0	TOTAL (%)	80	80

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MASSACHUSETTS

PART F	TOTAL LEAKS REPAIRED DURING YEAR BY CAUSE (NUMBER BY YEAR INSTALLED)	1960				1965		1968		1/1/70 TO 12/31 OF REPORTING YEAR		SYSTEM TOTAL (%)
		UNKNOWN	FRIOR TC 1960	THRU 1964	THRU 1967	THRU 1969	THRU 1969	THRU 1969	THRU 1969	THRU 1969		
	CORROSION	0	0	1	0	0	0	0	0	0	1	(50)
	DAMAGE BY OUTSIDE FORCE	0	0	0	0	0	0	0	0	0	0	(0)
	CONSTRUCTION DEFECT	0	0	1	0	0	0	0	0	0	1	(50)
	MATERIAL FAILURE	0	0	0	0	0	0	0	0	0	0	(0)
	OTHER	0	0	0	0	0	0	0	0	0	0	(0)
	TOTAL (%)	(0)	(0)	(100)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2

PART G

MATERIAL	BY NOMINAL SIZE	STEEL (%)			PLASTIC (%)			OTHER (%)			SYSTEM TOTAL	
		TRANSMISSION GATHERING	TRANSMISSION GATHERING	SYSTEM TOTAL (%)	TRANSMISSION GATHERING	TRANSMISSION GATHERING	SYSTEM TOTAL (%)	TRANSMISSION GATHERING	TRANSMISSION GATHERING	SYSTEM TOTAL (%)		
	1" OR LESS	0	0	(0)	16"	54	0	54	(6)	32"	0	(0)
	OVER 1" THRU 2"	0	0	(0)	18"	0	0	0	(0)	34"	0	(0)
	OVER 2" THRU 4"	43	0	(5)	20"	62	0	62	(7)	36"	0	(0)
	OVER 4" THRU 6"	89	0	(10)	22"	2	0	2	(0)	38"	0	(0)
	6"	86	0	(9)	24"	121	0	121	(13)	40"	0	(0)
	10"	71	0	(8)	26"	165	0	165	(18)	42"	0	(0)
	15"	28	0	(3)	28"	1	0	1	(0)	ABOVE 42"	0	(0)
	14"	2	0	(0)	30"	199	0	199	(22)	TOTAL (%)	923 (100)	923 (0)

MILES OF PIPE
IN SYSTEM AT
END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR VIRGINIA

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

DAMAGE BY	UNKNOWN	FRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
CORROSION	0	0	0	0	0	0	0
DAMAGE BY OUTSIDE FORCE	0	0	0	0	0	0	0
CONSTRUCTION DEFECT	0	0	0	0	0	0	0
MATERIAL FAILURE	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	2	2
TOTAL (%)	(0)	(0)	(0)	(0)	(0)	(100)	(0)

PART G

BY MATERIAL

STEEL (%) PLASTIC (%) OTHER (%) SYSTEM TOTAL

TRANSMISSION GATHERING	637 (100)	0 (0)	0 (0)	0 (0)	637
	0 (0)	0 (0)	0 (0)	0 (0)	0

BY NOMINAL SIZE

1" OR LESS	1" OR LESS	16"	23	0	23	32"	0	0	0
OVER 1" THRU 2"	(2)	18"	200	0	(3)	34"	0	0	(0)
OVER 2" THRU 4"	(4)	20"	0	0	(30)	36"	0	0	(0)
OVER 4" THRU 6"	(6)	22"	0	0	(0)	38"	0	0	(0)
8"	(15)	24"	0	0	(0)	40"	0	0	(0)
10"	(6)	26"	0	0	(0)	42"	0	0	(0)
12"	(35)	28"	0	0	(0)	ABOVE 42"	0	0	(0)
14"	(1)	30"	0	0	(0)	TOTAL (%)	668 (100)	0	668 (100)

MILES OF PIPE IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 1

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	FRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
CORROSION	924	5138	139	43	25	95	6364 (84)
DAMAGE BY OUTSIDE FORCE	56	103	5	5	4	8	181 (2)
CONSTRUCTION DEFECT	2	28	2	0	0	13	45 (1)
MATERIAL FAILURE	12	370	0	0	0	4	386 (5)
OTHER	73	482	2	3	2	43	605 (8)
TOTAL (%)	1067 (14)	6121 (81)	148 (2)	51 (1)	31 (0)	163 (2)	7581

PART G

BY MATERIAL
 BY NOMINAL SIZE

	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL		
TRANSMISSION GATHERING	25882 (98)	65 (0)	414 (2)	26361		
	4189 (88)	27 (1)	556 (12)	4772		
BY NOMINAL SIZE	TRANS- MISSION	GATHER- ING	SYSTEM TOTAL (%)	TRANS- MISSION	GATHER- ING	SYSTEM TOTAL (%)
1" OR LESS	12	2	14 (0)	2375	5	2380 (8)
OVER 1" THRU 2"	312	1155	1467 (5)	573	0	573 (2)
OVER 2" THRU 4"	2331	1688	4019 (13)	3991	6	3997 (13)
OVER 4" THRU 6"	2923	1051	3974 (13)	62	3	65 (0)
8"	3402	732	4134 (13)	1261	2	1263 (4)
10"	2553	83	2636 (6)	1145	0	1145 (4)
12"	3853	44	3897 (13)	1	0	1 (0)
14"	471	0	471 (2)	952	0	952 (3)
				26393 (85)	25	26393 (85)
				4771 (15)	4771 (15)	31164

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MARYLAND

PART H			PART I			PART J		
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN- SION	REPLACE- MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED	
	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	60	

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	TRANSMISSION	GATHERING
	0	0

PART N

NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	SUFFERING LOST TIME INJURIES	NUMBER OF FIRES	NUMBER OF EXPLOSIONS
	0	0	0	0

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEE(S) OF CONTRACTORS	SUFFERING LOST TIME INJURIES	FATALITIES	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	OPERATOR	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	TOTAL ESTIMATED VALUE
	0	0	0	0		\$ 225	\$ 0	\$ 225

TOTALS	FATALITIES	INJURIES
	0	0

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW HAMPSHIRE

PART H		PART I			PART J	
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN-SION	REPLACE-MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
		0	0	7	0	57
		0	0	0	7	
		0	0	0	7	

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

TRANSMISSION	0
GATHERING	0

PART N

FATALITIES	0	NUMBER OF FIRES	0
SUFFERING LOST TIME INJURIES	0	NUMBER OF EXPLOSIONS	0

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	0	NUMBER OF EMPLOYEE(S) OF OPERATOR	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
	0		0		0
	0		0		0
	0		0		0
	0		0		0
	0		0		0

TOTALS	0	0	0	0	0	0
--------	---	---	---	---	---	---

FATALITIES	0	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	\$
INJURIES	0	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$
	0	TOTAL ESTIMATED VALUE	\$

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR VERMONT

PART H			PART I			PART J	
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN-SION REPLACE-MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED	
	0 0 0	0 0 0			0 0 0	57	

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

TRANSMISSION	0
GATHERING	0

PART N

	FATALITIES	NUMBER OF EMPLOYEE(S) OF OPERATOR	0	NUMBER OF FIRES	0
SUFFERING LOST TIME INJURIES	0	0	0	0	0
FATALITIES	0	0	0	0	0
SUFFERING LOST TIME INJURIES	0	0	0	0	0
FATALITIES	0	0	0	0	0
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	0	0	0	0	0
TOTALS	FATALITIES	0	0	0	0
INJURIES	0	0	0	0	0

	FATALITIES	NUMBER OF EMPLOYEE(S) OF CONTRACTORS	0	NUMBER OF EXPLOSIONS OR FIRES	0
SUFFERING LOST TIME INJURIES	0	0	0	0	0
FATALITIES	0	0	0	0	0
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	0	0	0	0	0
TOTALS	FATALITIES	0	0	0	0
INJURIES	0	0	0	0	0

	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	OPERATOR	\$	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$
TOTAL ESTIMATED VALUE	0	0	0	0	0

SUMMARY FOR WEST VIRGINIA

PART H		PART I		PART J			
MILES INSTALLED DURING YEAR	SYSTEM	EXPAN- SION	REPLACE- MENT	MILES RETIRED DURING YEAR	SYSTEM	MILES	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
	TRANSMISSION	75	104		TRANSMISSION	53	
	GATHERING	42	5		GATHERING	2	
	TOTAL	117	109		TOTAL	55	13776
PART M							
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR							
	TRANSMISSION	166					
	GATHERING	4					
PART N							
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR							
FATALITIES	0	NUMBER OF FIRES	7				
SUFFERING LOST TIME INJURIES	0	NUMBER OF EXPLOSIONS	1				
FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	2				
SUFFERING LOST TIME INJURIES	0	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:		OPERATOR	\$	793832	
FATALITIES	0	INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	4	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$	54028	
TOTALS		0		TOTAL ESTIMATED VALUE	\$	847860	
INJURIES	4						

3.2 SOUTHERN REGION (REGION II)

3.2.1 Distribution Systems

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1e1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALABAMA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	3	314.33	515	171.67	54	18.00	347	115.67	2822	667.33	3861	1287.00		
PRIOR TO 1930	527	.64	54	.10	5	.01	28	.05	789	1.50	1212	2.30		
1930 THRU 1939	190	.92	36	.19	15	.08	45	.24	268	1.41	539	2.84		
1940 THRU 1949	941	.86	74	.08	89	.09	193	.21	760	.81	1926	2.05		
1950 THRU 1959	5800	.34	640	.11	1011	.17	1089	.19	1829	.31	6516	1.12		
1960 THRU 1969	4800	.17	594	.12	491	.10	869	.18	763	.16	3522	.73		
1970 TO END OF REPORTING YEAR	2761	.76	3334	1.21	1313	.48	4442	1.61	5070	1.84	16266	5.89		
OVER ALL YEARS	15030	.47	5267	.35	2977	.20	7813	.47	11477	.76	33842	2.25		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR GEORGIA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		LEAKS REPAIRED DURING YEAR BY CAUSE MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	213	3.48	304	1.43	60	.28	46	.22	257	1.21	1409	6.62
PRIOR TO 1930	874	.70	35	.04	30	.03	172	.20	196	.22	1046	1.20
1930 THRU 1939	353	1.69	51	.14	40	.11	30	.11	145	.41	869	2.46
1940 THRU 1949	17756	.09	113	.01	121	.01	124	.01	313	.02	2310	.13
1950 THRU 1959	18298	.32	828	.05	334	.02	520	.03	824	.05	8440	.46
1960 THRU 1969	8623	.21	729	.08	305	.04	400	.05	712	.08	3954	.46
1970 TO END OF REPORTING YEAR	10313	.06	2313	.22	340	.03	250	.02	520	.05	4060	.39
PER ALL YEARS	56430	.21	4373	.08	1230	.02	1558	.03	2967	.09	22104	.39

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSISSIPPI

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		MATERIAL FAILURE		CONSTRUCTION DEFECT		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	2144	.56	214	.10	63	.03	1	.00	0	.00	0	.00	1475	.69
PRIOR TO 1930	0	.00	6	.00	4	.00	10	.00	12	.00	12	.00	51	.00
1931 THRU 1939	99	1.77	66	.67	61	.62	114	1.15	110	1.11	110	1.11	526	5.31
1940 THRU 1949	133	2.36	277	2.08	78	.59	119	.89	445	3.35	445	3.35	1233	9.27
1950 THRU 1959	820	.84	532	.61	149	.18	247	.30	925	1.13	925	1.13	2511	3.06
1960 THRU 1969	1627	.15	340	.21	167	.10	133	.08	460	.28	460	.28	1330	.82
1970 TO END OF REPORTING YEAR	1236	.31	609	.49	252	.20	401	.32	283	.23	283	.23	1924	1.56
PER ALL YEARS	6059	.50	2014	.33	774	.13	1025	.17	2285	.37	2285	.37	9050	1.49

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR SOUTH CAROLINA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	1	.00	0	.00	0	.00	0	.00	6	.00	17	.00
PRIOR TO 1930	35	.60	4	.11	0	.00	1	.03	23	.66	49	1.40	49	1.40
1930 THRU 1939	13	2.77	2	.15	0	.00	0	.00	673	51.77	711	54.69	711	54.69
1940 THRU 1949	23	1.30	0	.35	1	.04	0	.00	3	.13	42	1.03	42	1.03
1950 THRU 1959	1555	.64	56	.04	62	.04	58	.04	810	.52	1977	1.27	1977	1.27
1960 THRU 1969	913	.19	53	.06	85	.09	99	.11	43	.05	457	.50	457	.50
1970 TO END OF REPORTING YEAR	301	.18	58	.19	52	.17	45	.15	43	.14	251	.83	251	.83
OVER ALL YEARS	2840	1.318	182	.06	200	.07	203	.07	1621	.56	3504	1.23	3504	1.23

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 2

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	5888	.73	1568	.27	366	.06	1982	.34	3942	.67	12134	2.06		
PRIOR TO 1938	3065	.93	484	.16	152	.05	424	.14	4360	1.42	8275	2.70		
1938 THRU 1939	2016	1.32	335	.17	241	.12	452	.22	2468	1.22	6152	3.05		
1940 THRU 1949	20891	.24	813	.04	720	.03	1621	.08	2895	.14	11096	.53		
1950 THRU 1959	40451	.33	2877	.07	2502	.06	4035	.10	6432	.16	29317	.72		
1960 THRU 1969	43471	.16	3974	.09	2533	.06	5515	.13	9333	.21	20375	.65		
1970 TO END OF REPORTING YEAR	32218	.20	9581	.30	3179	.10	8613	.27	9424	.29	37288	1.16		
OVER ALL YEARS	148000	.28	19632	.13	9693	.07	22642	.15	38854	.26	132637	.90		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR FLORIDA

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	MILES OF MAINS	NUMBER SERVICES	MILES OF MAINS	NUMBER SERVICES	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	466	663	601	552	1702	6720	3269	13973		
CUATED PIPE BY COATING DATE	57795	19333	19446	24272	73748	262702	189855	647151		
	24	88	122	171	1390	6385	2750	10930		
	4497	998	7053	10967	40918	230463	140559	435455		
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	3	0	0	17	184	2101	6571	8876		
	289	0	0	508	1216	112316	232102	346431		
BARE PIPE BY PROTECTION DATE	0	0	0	4	2	10	205	221		
	0	0	0	590	146	758	14100	15594		
TOTAL MILES	3	0	0	21	186	2111	6776	9097		
TOTAL SERVICES	(0)	(0)	(0)	(0)	(2)	(23)	(74)			
PART C TOTAL (%)	289	0	0	1098	1362	113074	246202	362025		
	(0)	(0)	(0)	(0)	(0)	(31)	(68)			

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FJR CALENDAR YEAR 1978

SUMMARY FOR KENTUCKY

PART B	DESC. OF JF PIPE IN SYSTEM AT END OF YEAR	TOTAL PIPE BY JF PIPE CONSTRUCTION DATE	MILES OF MAINS	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
			2590	2590	198	123	478	1381	1789	1454	8013
			178510	178510	12150	8351	21850	70481	78356	119402	489100
			1683	1683	3	39	129	1039	1338	1187	5418
			77662	77662	14	1434	2127	53176	43260	71303	248976
PART C	CATHODICALLY PROTECTED SYSTEMS	CUATED PIPE BY PROTECTION DATE	MILES OF MAINS	1519	0	0	1	616	1259	1819	5214
			NUMBER SERVICES	77653	0	0	0	15798	35557	104833	233841
			MILES OF MAINS	0	0	0	0	43	117	119	279
			NUMBER SERVICES	0	0	0	0	3176	5584	2626	11386
			TOTAL MILES	1519	0	0	1	659	1376	1938	5493
			TOTAL SERVICES (%)	(28)	(0)	(0)	(0)	(12)	(25)	(35)	(44)
			TOTAL SERVICES	77653	0	0	0	18974	41141	107459	245227
				(32)	(0)	(0)	(0)	(8)	(17)	(44)	

DUT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NORTH CAROLINA

PART B DESL. OF PIPE IN SYSTEM AT END OF YEAR	MILES OF MAINS	TOTAL PIPE BY CONSTRUCTION DATE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
			8164	0	11024	6442	62394	193649	132029	413702
			62	0	0	0	1480	5918	1804	9264
			1218	0	0	0	51376	181976	83628	318198
PART C CATHODI- CALLY PRO- TECTED SYSTEMS			0	0	0	0	119	931	3162	4212
			1	0	0	0	1693	14027	101477	117198
			0	0	0	0	94	1	4	99
			0	0	0	0	0	200	98	298
			0	0	0	0	213	932	3166	4311
			(0)	(0)	(0)	(0)	(5)	(22)	(73)	
PART C TOTAL (%)			1	0	0	0	1693	14227	101575	117496
			(0)	(0)	(0)	(0)	(1)	(12)	(86)	

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TENNESSEE

PART B DESC. OF PIPE SYSTEM AT END OF YEAR	MILES OF MAINS	TOTAL PIPE BY CONSTRUCTION DATE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
			14213	58153	11195	38798	123704	136228	159442	541733
			233	9	80	120	8533	12109	11793	32877
			10160	60	1557	5710	85769	125107	95726	324089
PART C										
CATHODI- CALLY PRO- TECTED SYSTEMS	MILES OF MAINS	COATED PIPE BY PROTECTION DATE	5	0	0	19	1323	4042	21931	27320
			690	0	0	1497	26845	57846	145856	232734
			0	0	0	0	2	7	2044	2053
			0	0	0	0	1368	1639	3880	6887
TOTAL MILES			5 (0)	0 (0)	0 (0)	19 (0)	1325 (5)	4049 (14)	23975 (82)	29373
TOTAL SERVICES			690 (0)	0 (0)	0 (0)	1497 (1)	28213 (12)	59485 (25)	149736 (62)	239621

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALABAMA

PART D	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU			1950 THRU		1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
					1939	1949	1959	1969				
			8	0	2	3	8	2	16			
	NR		153	749	228	517	835	321	1227			39 (27) 4030 (54)
	R NR	VALVE	0	0	0	0	0	1	0			1 (1) 1124 (15)
	NR		31	17	5	31	163	160	717			
	R NR	FITTING	18	1	0	0	0	0	8			27 (19) 1265 (17)
	NR		32	64	63	114	201	159	632			
	R NR	DRIP	0	0	0	0	0	0	0			0 (0) 18 (0)
	NR		0	5	1	6	1	0	5			
	R NR	REGULATOR	0	0	0	0	12	3	7			22 (15) 100 (5)
	NR		1	0	0	1	21	26	51			
	R NR	TAP CONNECTION	9	0	0	0	13	26	4			52 (36) 509 (7)
	NR		6	17	4	34	81	80	287			
	R NR	OTHER	0	0	0	0	1	1	0			2 (1) 373 (5)
	NR		83	61	23	55	43	20	80			
		TOTAL R (%)	35 (24)	1 (1)	2 (1)	3 (2)	34 (24)	33 (23)	35 (24)			143
		TOTAL NR (%)	306 (4)	913 (12)	324 (4)	758 (10)	1345 (18)	774 (10)	2999 (40)			7419
		GRAND TOTAL (%)	341 (5)	914 (12)	326 (4)	761 (10)	1379 (18)	807 (11)	3034 (40)			7562

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR GEORGIA

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (#)
PIPE	R 10 NR 127	1 305	1 332	1 643	18 1477	34 450	94 595	159 (64) 3929 (76)
VALVE	R 2 NR 10	0 4	0 13	0 21	3 115	0 91	29 72	34 (14) 326 (6)
FITTING	R 0 NR 3	0 138	0 35	0 42	1 78	0 92	23 54	24 (10) 442 (9)
DRIP	R 0 NR 3	0 3	0 2	0 4	0 10	0 2	0 1	0 (0) 25 (0)
REGULATOR	R 0 NR 1	0 0	0 0	0 0	0 13	0 8	10 10	10 (4) 32 (1)
TAP CONNECTION	R 0 NR 1	0 2	0 4	0 6	1 23	0 42	19 11	20 (8) 89 (2)
OTHER (BY YEAR INSTALLED)	R 0 NR 162	0 99	0 2	0 10	0 36	0 13	0 16	0 (0) 338 (7)
TOTAL R (#)	12 (5)	1 (0)	1 (0)	1 (0)	23 (9)	34 (14)	175 (71)	247
TOTAL NR (#)	307 (6)	551 (11)	388 (7)	726 (14)	1752 (34)	698 (13)	759 (15)	5181
GRAND TOTAL (#)	319 (6)	552 (10)	389 (7)	727 (13)	1775 (33)	732 (13)	934 (17)	5428

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSISSIPPI

PART D	R	NR	PIPE	PRIOR TO 1930		1930	1940	1950	1960	1/1/70 TO	TOTALS FOR ALL YEARS (#)
				UNKNOWN	1930	THRU 1949	THRU 1959	THRU 1969	12/31 OF REPORTING YEAR		
				0	0	0	0	2	0	80	82 (60)
				331	6	106	214	233	103	169	1162 (65)
	R	NR	VALVE	0	0	0	0	0	0	9	9 (7)
	R	NR		12	0	7	18	58	64	30	189 (11)
	R	NR	FITTING	1	0	0	1	0	1	14	17 (13)
	R	NR		37	0	27	48	67	24	31	234 (13)
	R	NR	DRIP	0	0	4	2	0	1	1	8 (6)
	R	NR		0	0	2	0	0	1	0	3 (0)
	R	NR	REGULATOR	0	0	0	0	0	0	3	3 (2)
	R	NR		0	0	1	4	10	1	6	22 (3)
	R	NR	TAP CONNECTION	4	0	0	0	0	0	13	17 (13)
	R	NR		3	0	2	4	32	33	38	112 (6)
	R	NR	OTHER	0	0	0	0	0	0	0	0 (0)
	R	NR		0	0	26	2	13	1	22	64 (4)
			TOTAL R (#)	5	0	4	3	2	2	120	136
				(4)	(0)	(3)	(2)	(1)	(1)	(88)	
			TOTAL NR (#)	383	6	171	290	413	227	296	1786
				(21)	(0)	(10)	(16)	(23)	(13)	(17)	
			GRAND TOTAL (#)	388	6	175	293	415	229	416	1922
				(20)	(0)	(9)	(15)	(22)	(12)	(22)	

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR SOUTH CAROLINA

PART D	PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (#)
	VALVE	R NR	0 1	0 1	0 0	0 0	6 34	3 4	1 7	10 (28) 47 (16)
	FITTING	R NR	0 2	0 3	0 3	0 0	3 6	3 11	1 4	7 (18) 32 (11)
	DRIP	R NR	0 0	0 0	0 0	0 0	1 0	0 0	0 0	1 (3) 0 (0)
	REGULATOR	R NR	0 0	0 0	0 0	0 0	0 2	0 1	0 0	0 (0) 3 (2)
	TAP CONNECTION	R NR	0 0	0 2	0 0	0 0	0 4	0 3	0 2	0 (0) 11 (4)
	OTHER (BY YEAR INSTALLED)	R NR	0 0	0 0	0 0	0 0	0 1	0 3	0 0	0 (0) 4 (1)
	TOTAL R (%)		(0)	(0)	(0)	(0)	(35)	(40)	10 (25)	40
	TOTAL NR (%)		6 (2)	30 (10)	16 (6)	20 (7)	131 (45)	63 (22)	24 (8)	290
	GRAND TOTAL (%)		6 (2)	30 (9)	16 (5)	20 (6)	145 (44)	79 (24)	34 (10)	330

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 2

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
PIPE	R NR 36 1246	4 3285	3 2130	6 2769	53 4665	102 2617	454 3501	658 (54) 20213 (62)
VALVE	R NR 2 61	0 55	0 69	0 186	12 618	8 768	107 1376	129 (11) 3133 (10)
FITTING	R NR 19 831	1 768	0 272	2 402	9 675	22 706	135 1151	188 (15) 4805 (15)
DRIP	R NR 0 20	0 63	4 21	4 42	1 32	1 18	8 16	18 (1) 212 (1)
REGULATOR	R NR 0 4	0 38	0 1	0 8	12 61	3 77	89 156	104 (9) 348 (2)
TAP CONNECTION	R NR 13 17	0 30	0 30	0 70	15 196	27 335	53 488	108 (9) 1166 (4)
OTHER (BY YEAR INSTALLED)	R NR 0 308	0 1557	0 134	0 170	3 148	2 152	13 174	18 (1) 2643 (8)
TOTAL R (%)	70 (6)	5 (0)	7 (1)	12 (1)	105 (9)	165 (13)	859 (70)	1223
TOTAL NR (%)	2487 (8)	5796 (18)	2657 (8)	3647 (11)	6395 (20)	4673 (14)	6862 (21)	32517
GRAND TOTAL (%)	2557 (8)	5801 (17)	2664 (8)	3659 (11)	6500 (19)	4838 (14)	7721 (23)	33740

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR FLORIDA

PART E	PIPE	R NR	UNKNOWN	PRIOR TO 1930			1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
				0	212	0					
			508				225		1549		
	VALVE	R NR	191	0	50	0	91	0	753	28	51 (10)
								1522		28	2946 (16)
	FITTING	R NR	388	0	76	0	147	0	1679	236	313 (63)
								3242		236	6577 (35)
	DRIP	R NR	1	0	2	0	2	0	0	0	0 (0)
								8		0	21 (0)
	REGULATOR	R NR	391	0	14	0	14	0	254	17	25 (5)
								502		17	1439 (7)
	TAP CONNECTION	R NR	5	0	19	0	0	0	70	2	2 (0)
								119		70	255 (1)
	OTHER	R NR	103	0	15	0	102	0	449	6	17 (3)
								1069		449	1989 (11)
	TOTAL R (\$)		0	0	0	27	1	134	336	500	
			(0)	(0)	(0)	(5)	(0)	(27)	(67)		
	TOTAL NR (\$)		1587	388	371	593	2391	826	4754	18910	
			(8)	(2)	(2)	(3)	(13)	(47)	(25)		
	GRAND TOTAL (\$)		1587	388	373	620	2392	8960	5090	19410	
			(8)	(2)	(2)	(3)	(12)	(46)	(26)		

NOTE: "R" = LEAKS REPORTED AND "NR" = LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR KENTUCKY

PART E	R	NR	UNKNOWN	PRIOR TO 1930		1930	1940	1950	1960	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
				1930	1940	1950	1960				
PIPE	0	587	0	0	1	692	453	0	1	21	71
				681				803	676	434	94 (22) 4326 (44)
VALVE	0	33	0	0	0	13	17	1	4	94	99 (23) 493 (5)
				11				86	157	176	
FITTING	0	357	0	0	0	65	355	0	3	96	99 (23) 3800 (39)
				48				1036	1325	614	
DRIP	0	2	0	0	0	1	0	0	0	10	10 (2) 19 (0)
				4			1	2	6	3	
REGULATOR	0	161	0	0	0	3	1	0	0	93	93 (22) 262 (3)
				1				9	36	51	
TAP SERVICES REPAIRED DURING YEAR (BY YEAR INSTALLED)	0	7	0	0	0	4	4	0	7	10	17 (4) 168 (2)
				4				29	76	44	
OTHER	0	173	0	0	0	31	68	0	0	10	10 (2) 705 (7)
				83				125	94	131	
TOTAL R (%)	0	(0)	0	(0)	1	(0)	0	2	35	384	422
				(0)			(0)	(0)	(8)	(91)	
TOTAL NR (%)	1320	(14)	832	(9)	809	(8)	899	2090	2370	1453	9773
				(9)			(9)	(21)	(24)	(15)	
GRAND TOTAL (%)	1320	(13)	832	(8)	810	(8)	899	2092	2405	1837	10195
				(8)			(9)	(21)	(24)	(18)	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NORTH CAROLINA

PART E	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)						
											R	NR	R	NR	R	NR
	0	42	0	87	0	538	1	641	0	930	2	324	0	930	3 (1)	2697 (38)
	0	0	0	2	0	177	1	31	0	137	2	142	0	137	3 (1)	491 (7)
	0	0	0	0	0	875	2	165	0	898	186	394	0	898	189 (90)	2379 (33)
	0	0	0	0	0	4	0	7	0	0	0	1	0	0	0 (0)	12 (0)
	0	2	0	0	0	176	0	27	0	72	2	51	0	72	2 (1)	328 (4)
	0	4	0	11	9	26	2	23	7	41	1	21	0	41	10 (5)	135 (2)
	0	9	0	0	0	308	3	35	0	698	0	19	0	698	3 (1)	1069 (15)
TOTAL R (%)	0	0	0	0	0	1	9	4	7	3	193	7	7	3	210	
TOTAL NR (%)	82	109	159	2104	929	2776	952	2776	952	2776	952	952	952	2776	7111	
GRAND TOTAL (%)	82	109	159	2105	938	2783	986	2783	986	2783	986	986	986	2783	7321	

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TENNESSEE

PART E	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
PIPE	4 89	0 289	0 175	0 381	0 1021	0 173	0 700	173 1242	237 (42) 3897 (40)
VALVE	2 113	0 5	0 96	0 61	0 146	0 58	3 174	58 357	63 (11) 952 (10)
FITTING	1 477	0 14	0 74	0 69	1 223	24 1009	119 598	24 1009	145 (26) 2464 (26)
DRIP	0 0	0 1	0 1	0 1	0 4	0 38	0 3	2 38	2 (0) 48 (0)
REGULATOR	0 132	0 0	0 11	0 7	1 33	76 436	1 185	76 436	78 (14) 804 (7)
TAP CONNECTION	0 0	0 4	0 1	0 9	1 56	6 264	8 111	6 264	15 (3) 445 (5)
OTHER (BY YEAR INSTALLED)	0 56	0 12	5 56	8 53	0 142	10 526	4 192	10 526	27 (5) 1037 (11)
TOTAL R (%)	7 (1)	0 (0)	5 (1)	8 (1)	30 (5)	168 (30)	349 (62)	349 (62)	567
TOTAL NR (%)	867 (9)	325 (3)	414 (4)	581 (6)	1625 (17)	1963 (20)	3872 (40)	3872 (40)	9647
GRAND TOTAL (%)	874 (9)	325 (3)	419 (4)	589 (6)	1655 (16)	2131 (21)	4221 (41)	4221 (41)	10214

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALABAMA

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
CORROSION	943	336	175	811	1951	805	2087	7108 (21)
DAMAGE BY OUTSIDE FORCES	515	54	36	74	640	594	3354	5267 (16)
CONSTRUCTION DEFECT	54	5	15	88	1011	491	1313	2977 (9)
MATERIAL FAILURE	347	28	45	193	1089	869	4442	7013 (21)
OTHER	2002	789	268	760	1825	763	5070	11477 (34)
TOTAL (\$)	3861 (11)	1212 (4)	539 (2)	1926 (6)	6516 (19)	3522 (10)	16266 (48)	33842

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL	TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"		
STEEL	327	5123	3604	1591	363	66	97	11197	(75)
WROUGHT IRON	0	46	208	55	10	0	0	319	(2)
CAST IRON	0	590	1861	531	65	18	19	3108	(21)
DUCTILE IRON	0	0	10	3	0	0	0	13	(0)
COPPER	0	0	0	0	0	0	0	0	(0)
PLASTIC	9	279	39	15	0	0	0	342	(2)
OTHER	11	32	0	0	0	0	0	43	(0)
SYSTEM (\$)	347 (2)	6070 (40)	5722 (38)	2195 (15)	438 (3)	84 (1)	116 (1)	15022	

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR GEORGIA

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU				1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
			1930	1939	1940 THRU 1949	1949				
CORROSION	742	613	595	1647	5934	1800	645	11976	(54)	
DAMAGE BY OUTSIDE FORCES	304	35	51	113	828	729	2313	4373	(20)	
CONSTRUCTION DEFECT	60	30	40	121	334	305	340	1230	(6)	
MATERIAL FAILURE	46	172	38	124	520	408	250	1558	(7)	
OTHER	257	196	145	313	824	712	520	2967	(13)	
TOTAL (\$)	1409 (6)	1046 (5)	869 (4)	2318 (10)	8440 (38)	3954 (18)	4068 (18)	22104		

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	NOMINAL SIZE						TOTAL	TOTAL (%)
		OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"		
STEEL	2225	14995	5297	1922	612	72	114	43	25280 (53)
WROUGHT IRON	0	45	10	0	0	0	0	0	55 (0)
CAST IRON	0	7861	3671	2129	794	28	41	16	14540 (31)
DUCTILE IRON	0	0	23	0	0	0	1	2	26 (0)
COPPER	0	0	0	0	0	0	0	0	0 (0)
PLASTIC	2	7160	294	0	0	0	0	0	7456 (16)
OTHER	3	6	1	0	0	0	0	0	10 (0)
SYSTEM (\$)	2230 (5)	30067 (63)	9296 (20)	4051 (9)	1406 (3)	100 (0)	156 (0)	61 (0)	47367

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSISSIPPI

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
CORROSION	1197	19	175	314	688	238	379	3010 (33)
DAMAGE BY OUTSIDE FORCES	214	6	66	277	502	340	609	2014 (22)
CONSTRUCTION DEFECT	63	4	61	78	149	167	252	774 (9)
MATERIAL FAILURE	1	10	114	119	247	133	401	1025 (11)
OTHER	0	12	110	445	925	460	283	2235 (25)
TOTAL (\$)	1475 (16)	51 (1)	526 (6)	1233 (14)	2511 (28)	1338 (15)	1924 (21)	9058

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL	TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"		
STEEL	212	3581	1120	330	91	6	22	8	5370 (89)
WROUGHT IRON	0	2	4	0	0	0	0	0	6 (0)
CAST IRON	0	182	173	66	10	1	0	0	432 (7)
DUCTILE IRON	0	0	0	3	0	0	0	0	3 (0)
COPPER	0	0	0	0	0	0	0	0	0 (0)
PLASTIC	20	219	10	0	1	0	0	0	250 (4)
OTHER	0	0	0	0	0	0	0	0	0 (0)
SYSTEM (\$)	232 (4)	3984 (66)	1307 (22)	399 (7)	102 (2)	7 (0)	22 (0)	8 (0)	6061

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR SOUTH CAROLINA

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU				1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
			1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969		
CORROSION	10	21	36	30	991	177	53	1318 (38)
DAMAGE BY OUTSIDE FORCES	1	4	2	8	56	53	58	182 (5)
CONSTRUCTION DEFECT	0	0	0	1	62	85	52	200 (6)
MATERIAL FAILURE	0	1	0	0	58	99	45	203 (6)
OTHER	6	23	673	3	810	43	43	1601 (46)
TOTAL (%)	17 (0)	49 (1)	711 (20)	42 (1)	1977 (56)	457 (13)	251 (7)	3504

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12" OVER 12"	
STEEL	63	1854	558	288	210	14	0	2987 (98)
WROUGHT IRON	0	1	0	0	0	0	0	1 (0)
CAST IRON	0	0	18	0	1	0	0	19 (1)
DUCTILE IRON	0	0	0	0	0	0	0	0 (0)
COPPER	0	0	0	0	0	0	0	0 (0)
PLASTIC	7	34	4	0	0	0	0	45 (1)
OTHER	0	0	0	0	0	0	0	0 (0)
SYSTEM (%)	70 (2)	1889 (62)	580 (19)	288 (9)	211 (7)	14 (0)	0 (0)	3052

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 2

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	4276	2855	2656	5047	13471	7020	6491	41816 (32)
DAMAGE BY OUTSIDE FORCES	1568	484	335	813	2877	3974	9581	19632 (15)
CONSTRUCTION DEFECT	366	152	241	720	2502	2533	3179	9693 (7)
MATERIAL FAILURE	1982	424	452	1621	4035	5515	8613	22642 (17)
OTHER	3942	4360	2468	2895	6432	9333	9424	38854 (29)
TOTAL (%)	12134 (9)	8275 (6)	6152 (5)	11096 (8)	29317 (22)	28375 (21)	37288 (28)	132637

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL	TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"		
STEEL	7707	58164	24143	7701	2685	349	523	251	101523 (75)
WROUGHT IRON	0	183	322	66	35	6	0	3	615 (0)
CAST IRON	7	8748	7279	3433	1058	106	156	72	20859 (15)
DUCTILE IRON	0	1	65	50	5	0	1	2	124 (0)
COPPER	0	16	0	0	0	0	0	0	16 (0)
PLASTIC	155	11993	513	21	1	0	0	0	12683 (9)
OTHER	336	73	2	0	0	0	0	0	411 (0)
SYSTEM (%)	8205 (6)	79178 (58)	32324 (24)	11271 (8)	3784 (3)	461 (0)	680 (0)	328 (0)	136231

OUT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR FLORIDA

PART H	UNKNJWN	1/2"		OVER 1/2"		OVER 1"		OVER 2"		OVER 4"		TOTALS (%)
		JK LESS	JK	THRU 1"	THRU 1/2"	THRU 2"	THRU 4"	THRU 6"	THRU 6"	THRU 6"	THRU 6"	
STEEL	1216418	88361	0	214108	38957	3737	52	0	1561633 (95)			
CAST IRON	358	0	365	33	0	0	0	0	796 (0)			
COPPER	657	2859	0	0	0	0	0	0	3556 (0)			
PLASTIC	40	23063	25928	3015	8	0	0	0	52054 (3)			
OTHER	23898	3836	1629	105	0	0	0	0	29468 (2)			
TOTAL SYSTEM (%)	12+1451 (75)	118119 (7)	242030 (15)	42110 (3)	3745 (0)	52 (0)	0 (0)	0 (0)	1647507			

NUMBER
 OF
 SERVICES
 IN
 SYSTEM
 AT END
 OF YEAR

DUT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DUT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR KENTUCKY

PART #	JMK:JMN	1/2" JK LESS	OVER 1/2" THRU 1"	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	OVER 6"	TOTALS (%)
CAST IRON	0	0	674	4	11	3	0	692 (0)
COPPER	165	1500	14236	12269	0	0	0	28170 (2)
PLASTIC	383	3315	47936	6087	3	0	0	57722 (4)
OTHER	0	2	457	66295	442	0	0	67196 (5)
TOTAL SYSTEM (%)	1,033,363 (60)	12949 (1)	181283 (12)	282218 (19)	3390 (0)	209 (0)	17 (0)	1489429

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NORTH CAROLINA

PART H	STEEL	JNKJUN	1/2" JN LESS	OVER 1/2" THRU 1"	292039	OVER 1" THRU 2"	43529	OVER 2" THRU 4"	2258	OVER 4" THRU 6"	47	OVER 6"	8	TOTALS (%)
NUMBER OF SERVICES IN SYSTEM AT END OF YEAR														
CAST IRON	0	0	0	204	0	0	4	0	0	0	0	0	0	208 (0)
COPPER	0	0	0	173	0	0	0	0	0	0	0	0	0	173 (0)
PLASTIC	0	0	0	57159	1593	0	0	0	0	0	0	0	0	58752 (14)
OTHER	0	0	0	63	2648	0	0	0	0	0	0	0	0	2711 (1)
TOTAL SYSTEM (%)	15054 (4)	202 (0)	349038 (84)	47770 (12)	2262 (1)	47 (0)	8 (0)	414981						

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TENNESSEE

PART #	UNKNOWN	1/2" OR LESS		OVER 1/2" THRU 1"		OVER 1" THRU 2"		OVER 2" THRU 4"		OVER 4" THRU 6"		OVER 6"	TOTALS (%)
		5392	4002	517322	127373	3688	254	19	458050 (85)				
STEEL	0	0	126	73	27	15	1	242 (0)					
CAST IRON	0	45	3730	102	0	0	0	3887 (1)					
CUPPER	50	10861	65064	583	8	0	0	76566 (14)					
PLASTIC	0	0	1549	0	5	1	0	1555 (0)					
OTHER	5442 (1)	14512 (3)	387797 (72)	128131 (24)	3728 (1)	270 (0)	20 (0)	540300					
TOTAL SYSTEM (%)													

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DCT F 7100.1-1)
 FJK CALENDAR YEAR 1978

SUMMARY FOR ALABAMA

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES AND SERVICES INSTALLED DURING YEAR	251	53	304	MILES AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	10509	6919	17428	NUMBER OF SERVICES	3092
PART P					
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR					
				MAINS SERVICES	887 2747
PART Q					
	NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	0	NUMBER OF FIRES	39
		SUFFERING LOST TIME INJURIES	4	NUMBER OF EXPLOSIONS	4
TOTAL PERSONAL PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEE(S) OF CONTRACTORS	FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	2
		SUFFERING LOST TIME INJURIES	2	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 3226275
	NUMBER OF NUM- EMPLOYEE(S)	FATALITIES	0	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR \$	103866
		INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	5	TOTAL ESTIMATED VALUE	\$ 3330141
TOTALS					
		FATALITIES	0		
		INJURIES	11		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSISSIPPI

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES AND SERVICES INSTALLED DURING YEAR	MILES OF MAINS 109	15	124	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
	NUMBER OF SERVICES 5355	721	6076	NUMBER OF SERVICES	5059

PART P	NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR
	MAINS 221 SERVICES 941

PART Q	FATALITIES	NUMBER OF EMPLOYEE(S) OF OPERATOR	NUMBER OF FIRES
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	SUFFERING LOST TIME INJURIES	0	4
	FATALITIES	2	2
	SUFFERING LOST TIME INJURIES	0	0
	FATALITIES	0	0
	INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	0	0
	FATALITIES	0	0
	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:		
	OPERATOR	\$ 822302	
	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 0	
TOTALS	FATALITIES	0	\$ 822302
	INJURIES	2	

OUT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1976

SUMMARY FOR SOUTH CAROLINA

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MAINS AND SERVICES INSTALLED DURING YEAR	MILES OF MAINS	2	10	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
	NUMBER OF SERVICES	1219	2742	NUMBER OF SERVICES	1966
				653	

PART P	MAINS	SERVICES
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	120	605

PART U	NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	0	NUMBER OF FIRES	1
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEE(S) OF CONTRACTORS	SUFFERING LOST TIME INJURIES	0	NUMBER OF EXPLOSIONS	0
				NUMBER OF INCUCED SECONDARY EXPLOSIONS OR FIRES	0
				ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 10000
	NUMBER OF NON- EMPLOYEE(S)	FATALITIES	0	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 0
		INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	0	TOTAL ESTIMATED VALUE	\$ 10000
		FATALITIES	0		
		INJURIES	0		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 2

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES AND SERVICES INSTALLED DURING YEAR	MILES OF MAINS	8988	10296	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
	75270	39210	114486	NUMBER OF SERVICES	236
					32691
					82617

PART P

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

MAINS	7922
SERVICES	14746

PART Q

	NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES SUFFERING LOST TIME INJURIES	0	NUMBER OF FIRES	83
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEES	FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	13
		SUFFERING LOST TIME INJURIES	14	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 13053826
		FATALITIES	5	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 476321
		INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	1	TOTAL ESTIMATED VALUE	\$ 13530147
			24		
TOTALS	FATALITIES	FATALITIES	1		
		INJURIES	43		

3.2.2 Transmission/Gathering Systems

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALABAMA

TOTAL MILES OF MAIN	CORROSION		PER MILE		DAMAGE BY OUTSIDE FORCE		PER MILE		LEAKS REPAIRED DURING CONSTRUCTION		PER MILE		YEAR BY CAUSE		PER MILE		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	1	.00
PRIOR TO 1960	5326	.03	3	.00	6	.00	3	.00	3	.00	15	.00	168	.03				
1960 THRU 1969	1699	.00	5	.00	9	.01	1	.00	1	.00	1	.00	19	.01				
1970 TO END OF REPORTING YEAR	1135	.01	8	.01	1	.00	1	.00	4	.00	4	.00	20	.02				
OVER ALL YEARS	8160	.02	16	.00	16	.00	5	.00	20	.00	208	.03						

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR GEORGIA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1960	625	.02	1	.00	0	.00	0	.00	0	.00	1	.00	12	.02
1960 THRU 1969	621	.00	1	.00	0	.00	0	.00	0	.00	0	.00	1	.00
1970 TO END OF REPORTING YEAR	40	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
OVER ALL YEARS	1286	.01	2	.00	0	.00	0	.00	0	.00	1	.00	13	.01

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSISSIPPI

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1960	391	.02	2	.01	0	.00	2	.01	0	.00	11	.03
1960 THRU 1969	37	.03	0	.00	0	.00	0	.00	1	.03	2	.05
1970 TO END OF REPORTING YEAR	255	.00	0	.00	1	.00	2	.01	4	.02	7	.03
OVER ALL YEARS	683	.01	2	.00	1	.00	4	.01	5	.01	20	.03

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR SOUTH CAROLINA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1960	1180	.00	6	.01	2	.00	7	.01	30	.03	50	.04
1960 THRU 1969	1252	.00	1	.00	2	.00	1	.00	8	.01	13	.01
1970 TO END OF REPORTING YEAR	338	.00	0	.00	0	.00	7	.02	0	.00	7	.02
OVER ALL YEARS	2770	.00	7	.00	4	.00	15	.01	38	.01	70	.03

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 2

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	418	0.09	9	0.01	0	0.00	2	0.00	1	0.00	44	0.11
PRIOR TO 1960	16037	0.03	22	0.00	13	0.00	19	0.00	58	0.00	606	0.04
1960 THRU 1969	7894	0.00	18	0.00	19	0.00	6	0.00	13	0.00	80	0.01
1970 TO END OF REPORTING YEAR	3303	0.00	13	0.00	6	0.00	12	0.00	16	0.00	56	0.02
OVER ALL YEARS	27652	0.02	58	0.00	38	0.00	39	0.00	88	0.00	786	0.03

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR KENTUCKY

PART B	DESCRIP- TION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUC- TION DATE	TRANSMISSION	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
	MILES OF PIPE BY CONSTRUC- TION DATE	233	107	374	1218	2121	2028	883	6964		
	GATHERING	177	37	10	38	36	45	152	495		
	MILES OF COATED PIPE BY COATING DATE	146	13	271	1141	2018	2019	862	6470		
	GATHERING	0	0	0	0	6	31	153	190		
PART C	MILES OF COATED PIPE BY PROTECTION DATE	112	0	28	372	2931	1919	1056	6418		
	GATHERING	0	0	0	0	3	21	133	157		
	MILES OF BARE PIPE BY PROTECTION DATE	0	0	0	0	35	35	150	220		
	GATHERING	0	0	0	0	0	0	18	18		
	TRANS- MISSION	112	0	28	372	2966	1954	1206	6638		
	GATHERING	(2)	(0)	(0)	(6)	(45)	(29)	(18)			
	PART C TOTAL (%)	0	0	0	0	3	21	151	175		
	GATHERING	(0)	(0)	(0)	(0)	(2)	(12)	(86)			

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NORTH CAROLINA

PART B	DESCRIP- TION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUC- TION DATE	TRANS- MISSION	GATHER- ING	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
			0	0	0	0	0	0	933	465	171	1569
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	933	465	171	1569
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	62	415	1092	1569
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	62	415	1092	1569
			(0)	(0)	(0)	(0)	(0)	(0)	(4)	(26)	(70)	(0)
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

PART C

PART C	DESCRIP- TION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUC- TION DATE	TRANS- MISSION	GATHER- ING	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
			0	0	0	0	0	0	933	465	171	1569
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	933	465	171	1569
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	62	415	1092	1569
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	62	415	1092	1569
			(0)	(0)	(0)	(0)	(0)	(0)	(4)	(26)	(70)	(0)
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
			(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

PART C
TOTAL (%)

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TENNESSEE

PART B	DESCRIPTION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUCTION DATE	TRANSMISSION	GATHERING	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
			5	6	35	21	810	254	63	1194		
			3	0	0	0	0	0	10	13		
			0	5	35	21	810	254	75	1200		
			0	0	0	0	0	0	4	4		
PART C			0	0	1	1	761	336	84	1183		
			0	0	0	0	0	0	4	4		
			0	0	0	0	0	0	0	0		
			0	0	0	0	0	0	0	0		
			0	0	1	1	761	336	84	1183		
			(0)	(0)	(0)	(0)	(64)	(28)	(7)	(1183)		
			(0)	(0)	(0)	(0)	(0)	(0)	(4)	(1100)		

PART C
 TOTAL
 (%)

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALABAMA

PART D	BODY OF PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL	%
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	BODY OF PIPE	R NR	0 1	0 0	2 129	0 12	0 1	0 4	2 14	4 161	(57) (80)
	GIRTH WELD	R NR	0 0	0 0	0 0	0 6	0 0	0 0	0 0	0 6	(0) (3)
	LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	(0) (0)
	OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	1 1	0 0	1 1	(0) (0)
	COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	(0) (0)
	VALVE	R NR	0 0	0 0	0 0	0 0	0 3	0 1	0 1	0 5	(0) (2)
	SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	(0) (0)
	TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 12	0 0	0 12	(0) (6)
	FITTING	R NR	0 0	0 0	0 0	0 0	0 3	0 0	0 2	0 5	(0) (2)
	GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	(0) (0)
	OTHER	R NR	0 0	0 0	0 10	1 0	0 1	1 0	1 0	3 11	(43) (5)
	TOTALS (%)	R NR	(0) 1 (0)	(0) 0 (0)	(29) 139 (69)	(14) 18 (9)	(0) 8 (4)	(14) 18 (9)	(43) 17 (8)	7 201	
	GRAND TOTAL (%)		1 (0)	0 (0)	141 (68)	19 (9)	8 (4)	19 (9)	20 (10)	208	

NOTE: *R*=LEAKS REPORTED AND *NR*=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR GEORGIA

PART D	UNKNOWDN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)								
BODY OF PIPE	R 0 NR 2	0 0	0 5	0 3	0 0	0 0	0 0	0 (0) 10 (77)
GIRTH WELD	R 0 NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
LONGITUDINAL WELD	R 0 NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER WELDS	R 0 NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
COMPRESSOR	R 0 NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
VALVE	R 0 NR 0	0 0	0 1	0 0	0 0	0 0	0 0	0 (0) 1 (8)
SCRAPER TRAP	R 0 NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TAP CONNECTION	R 0 NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
FITTING	R 0 NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
GAS COOLER	R 0 NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER	R 0 NR 0	0 0	0 0	0 0	0 1	0 1	0 0	0 (0) 2 (15)
TOTALS (%)	R 0 NR 2 (15)	0 (0) 0 (0)	0 (0) 6 (46)	0 (0) 3 (23)	0 (0) 1 (8)	0 (0) 1 (8)	0 (0) 1 (0)	0 13
GRAND TOTAL (%)	R 2 NR 15 (15)	0 (0)	6 (46)	3 (23)	1 (8)	1 (8)	0 (0)	13

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSISSIPPI

PART D	UNKNOW	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)								
BODY OF PIPE	R 0	1	0	0	0	0	0	1 (100)
	NR 0	0	0	0	3	1	0	4 (40)
GIRTH WELD	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	1	3	4 (40)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
FITTING	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	1	0	1	2 (20)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TOTALS (%)	R 0	1	0	0	0	0	0	1
	NR (0)	(100)	(0)	(0)	(0)	(0)	(0)	(0)
GRAND TOTAL (%)	R 0	0	0	0	4	2	4	10
	NR (0)	(0)	(0)	(0)	(40)	(20)	(40)	(40)
	R 0	1	0	0	4	2	4	11
	NR (0)	(9)	(0)	(0)	(36)	(18)	(36)	(36)

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 2

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMIS- SIGN SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR OTHER WELDS INSTALLED)	R NR 20 9	2 32	7 232	1 18	26 36	14 11	2 17	72 (77) 355 (72)
BODY OF PIPE	R NR	0 0	0 0	0 6	0 2	0 2	0 0	0 (0) 10 (2)
GIRTH WELD	R NR	0 0	0 0	1 1	0 0	0 0	0 0	1 (1) 0 (0)
LONGITUDINAL WELD	R NR	0 0	0 0	0 0	1 1	0 0	0 0	1 (1) 1 (0)
OTHER WELDS	R NR	0 0	0 0	0 0	0 0	1 1	0 0	1 (1) 1 (0)
COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	1 1	1 (1) 1 (0)
VALVE	R NR	1 2	0 1	0 1	0 7	0 7	0 7	1 (1) 25 (5)
SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TAP CONNECTION	R NR	5 0	0 0	0 0	0 0	0 14	0 0	5 (5) 14 (3)
FITTING	R NR	0 0	0 0	0 4	2 13	3 6	1 10	6 (6) 35 (7)
GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER	R NR	1 0	1 10	1 0	0 31	1 10	1 1	6 (6) 52 (11)
TOTALS (%)	R NR	27 (29) 11 (2)	8 (9) 243 (49)	3 (3) 29 (6)	29 (31) 89 (18)	18 (19) 51 (10)	5 (5) 36 (7)	93 493
GRAND TOTAL (%)	R NR	38 (6)	37 (6) 251 (43)	32 (5) 32 (5)	118 (20) 118 (20)	69 (12) 69 (12)	41 (7) 41 (7)	586

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR FLORIDA

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
FITTING	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TOTALS (%)	R (0)	(0)	(0)	(0)	(0)	(0)	(0)	0
	NR (0)	(0)	(0)	(0)	(0)	(0)	(0)	0
GRAND TOTAL (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR KENTUCKY

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R NR	14 30	0 13	2 14	0 3	0 1	0 0	16 (94) 138 (81)
BODY OF PIPE	R NR	0 77	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
GIRTH WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
VALVE	R NR	1 0	0 0	0 4	0 1	0 3	0 1	1 (6) 9 (5)
SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 1	0 1	0 (0) 2 (1)
FITTING	R NR	0 0	0 0	0 7	0 0	0 6	0 8	0 (0) 21 (12)
GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 1	0 (0) 1 (1)
TOTALS (%)	R NR	14 (82) 30 (18)	0 (0) 13 (8)	2 (12) 25 (15)	0 (0) 4 (2)	0 (0) 11 (6)	0 (0) 11 (6)	17 171
GRAND TOTAL (%)		44 (23)	13 (7)	27 (14)	4 (2)	11 (6)	11 (6)	188

NOTE: "NR"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TENNESSEE

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	0	0	0	0	0	0	1	1 (100)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	0	0	0	0	0	0	1	1 (100)
GIRTH WELD	0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
VALVE	0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
FITTING	0	0	0	0	0	0	0	0 (0)
GAS COOLER	0	0	0	0	0	0	0	0 (0)
OTHER	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	0	0	0	0	0	0	1	1
GRAND TOTAL (%)	0	0	0	0	0	0	1	1

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALABAMA

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	PRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
CORROSION	1	141	1	1	1	6	151 (73)
DAMAGE BY OUTSIDE FORCE	0	3	1	0	4	8	16 (8)
CONSTRUCTION DEFECT	0	6	3	4	2	1	16 (8)
MATERIAL FAILURE	0	3	0	1	0	1	5 (2)
OTHER	0	15	1	0	0	4	20 (10)
TOTAL (%)	1	168 (81)	6 (3)	6 (3)	7 (3)	20 (10)	208

PART G

BY
 MATERIAL

STEEL (%) PLASTIC (%) OTHER (%) SYSTEM
 TOTAL

TRANSMISSION GATHERING	7701 (100)	0 (0)	2 (0)	7703 3
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BY
 NOMINAL
 SIZE

	TRANSMISSION MISSION	GATHERING	SYSTEM TOTAL (%)	TRANSMISSION MISSION	GATHERING	SYSTEM TOTAL (%)
1" OR LESS	17	0	17 (0)	16"	630 (8)	630 (8)
OVER 1" THRU 2"	30	0	30 (0)	18"	574 (7)	574 (7)
OVER 2" THRU 4"	276	0	276 (3)	20"	831 (10)	831 (10)
OVER 4" THRU 6"	572	1	573 (7)	22"	478 (6)	478 (6)
8"	664	1	665 (8)	24"	945 (12)	945 (12)
10"	826	0	826 (10)	26"	359 (4)	359 (4)
12"	946	0	946 (12)	28"	0	0
14"	590	1	591 (7)	30"	422 (5)	422 (5)
				TOTAL	8160 (100)	8163 (0)

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

	TRANSMISSION MISSION	GATHERING	SYSTEM TOTAL (%)	TRANSMISSION MISSION	GATHERING	SYSTEM TOTAL (%)
1" OR LESS	17	0	17 (0)	16"	630 (8)	630 (8)
OVER 1" THRU 2"	30	0	30 (0)	18"	574 (7)	574 (7)
OVER 2" THRU 4"	276	0	276 (3)	20"	831 (10)	831 (10)
OVER 4" THRU 6"	572	1	573 (7)	22"	478 (6)	478 (6)
8"	664	1	665 (8)	24"	945 (12)	945 (12)
10"	826	0	826 (10)	26"	359 (4)	359 (4)
12"	946	0	946 (12)	28"	0	0
14"	590	1	591 (7)	30"	422 (5)	422 (5)
				TOTAL	8160 (100)	8163 (0)

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR GEORGIA

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	FRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
CORROSION	0	10	0	0	0	0	10
DAMAGE BY OUTSIDE FORCE	0	1	0	1	0	0	(77)
CONSTRUCTION DEFECT	0	0	0	0	0	0	(15)
MATERIAL FAILURE	0	0	0	0	0	0	(0)
OTHER	0	1	0	0	0	0	(0)
TOTAL (%)	(0)	(92)	(0)	(0)	(0)	(0)	(0)
							13

PART G

BY MATERIAL

	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL
TRANSMISSION GATHERING	1239 (96)	47 (4)	0 (0)	1286
	0 (0)	0 (0)	0 (0)	0

BY NOMINAL SIZE

	TRANSMISSION MISSION	GATHERING MISSION	SYSTEM TOTAL (%)	STEEL (%)	PLASTIC (%)	OTHER (%)	TRANSMISSION MISSION	GATHERING MISSION	SYSTEM TOTAL (%)
1" OR LESS	0	0	(0)	16"	49	(4)	0	0	0
OVER 1" THRU 2"	32	0	(2)	18"	0	(0)	0	0	0
OVER 2" THRU 4"	345	0	(27)	20"	3	(0)	0	0	0
OVER 4" THRU 6"	262	0	(20)	22"	19	(1)	0	0	0
8"	121	0	(9)	24"	36	(3)	0	0	0
10"	185	0	(14)	26"	26	(2)	0	0	0
12"	202	0	(16)	28"	0	(0)	0	0	0
14"	1	0	(0)	30"	5	(0)	0	0	0
							1286	0	1286
							(100)	(0)	(0)

MILES OF PIPE IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 2

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR

INSTALLED)

	UNKNOWN	PRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
CORROSION	36	494	16	6	2	9	563
DAMAGE BY OUTSIDE FORCE	5	22	4	8	6	13	(72)
CONSTRUCTION DEFECT	0	13	9	5	5	6	(7)
MATERIAL FAILURE	2	19	3	2	1	12	(5)
OTHER	1	58	7	6	0	16	(5)
TOTAL (%)	44 (6)	606 (77)	39 (5)	27 (3)	14 (2)	96 (7)	786

PART G

MATERIAL	STEEL (%)		PLASTIC (%)		OTHER (%)		SYSTEM TOTAL	
	TRANSMISSION GATHERING	SYSTEM GATHERING	TRANSMISSION GATHERING	SYSTEM GATHERING	TRANSMISSION GATHERING	SYSTEM GATHERING		
BY MATERIAL	26613 (100)	47 (0)	2 (0)	26662	492 (96)	19 (4)	3 (1)	514
BY NOMINAL SIZE	TRANSMISSION GATHERING	SYSTEM GATHERING	TRANSMISSION GATHERING	SYSTEM GATHERING	TRANSMISSION GATHERING	SYSTEM GATHERING	TRANSMISSION GATHERING	SYSTEM GATHERING
1" OR LESS	43	2	45 (0)	1598	1	1599 (6)	32"	0 (0)
OVER 1" THRU 2"	283	162	445 (2)	1247	0	1247 (5)	34"	0 (0)
OVER 2" THRU 4"	2539	219	2754 (10)	1694	0	1694 (6)	36"	433 (2)
OVER 4" THRU 6"	3072	77	3149 (11)	790	0	790 (3)	38"	0 (0)
8"	3429	74	3503 (13)	2102	1	2103 (6)	40"	0 (0)
10"	2067	1	2068 (7)	2280	0	2280 (8)	42"	0 (0)
12"	3036	1	3037 (11)	0	0	0 (0)	ABOVE 42"	0 (0)
14"	713	1	714 (3)	1772	0	1772 (6)	TOTAL (%)	27106 (98)
							539 (2)	27645

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR FLORIDA

PART H	PART I			PART J		
	MILES INSTALLED DURING YEAR	EXPAN- SION	REPLACE- MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
		6	2		2	
		0	0		0	
		6	2		2	4506

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	
TRANSMISSION	3
GATHERING	0

PART N

	FATALITIES	0	NUMBER OF FIRES	1
NUMBER OF EMPLOYEE(S) OF OPERATOR	SUFFERING LOST TIME INJURIES	0	NUMBER OF EXPLOSIONS	0
NUMBER OF EMPLOYEE(S) OF CONTRACTORS	FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
NUMBER OF NON-EMPLOYEE(S)	SUFFERING LOST TIME INJURIES	0	ESTIMATED OPERATOR	\$ 752829
TOTALS	FATALITIES	0	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 0
	INJURIES	0	TOTAL ESTIMATED VALUE	\$ 752829

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR KENTUCKY

PART H	PART I	PART J
MILES INSTALLED DURING YEAR	EXPAN- SION	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
SYSTEM GATHERING TOTAL	REPLACE- MENT	
TRANSMISSION GATHERING TOTAL	27 5 32	2 5 7
	62 8 70	6865

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	TRANSMISSION 0
	GATHERING 3

PART N

NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	NUMBER OF FIRES
		3
	SUFFERING LOST TIME INJURIES	NUMBER OF EXPLOSIONS
		0
		NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES
		0

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	FATALITIES	OPERATOR
		\$ 241280
	SUFFERING LOST TIME INJURIES	
	FATALITIES	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR \$ 5000
	INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	TOTAL ESTIMATED VALUE
		\$ 246280
TOTALS	FATALITIES	
	INJURIES	

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TENNESSEE

PART H			PART I			PART J		
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN-SION	REPLACE-MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED	
	0 1 1	0 1 1	0 0 0		0 0 0		0 0 0	1178

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	TRANSMISSION	0
	GATHERING	0

PART N

FATALITIES	0	NUMBER OF FIRES	0
SUFFERING LOST TIME INJURIES	0	NUMBER OF EXPLOSIONS	0
FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
SUFFERING LOST TIME INJURIES	0	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	
FATALITIES	0	OPERATOR	\$ 6309
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	0	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 0
TOTALS	0	TOTAL ESTIMATED VALUE	\$ 6309
INJURIES	0		

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEES(S) OF OPERATOR	0	NUMBER OF FIRES	0
	NUMBER OF CONTRACTORS	0	NUMBER OF EXPLOSIONS	0
	NUMBER OF NON-EMPLOYEE(S)	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
		0	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	
		0	OPERATOR	\$ 6309
		0	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 0
		0	TOTAL ESTIMATED VALUE	\$ 6309
		0		

3.3 CENTRAL REGION (REGION III)

3.3.1 Distribution Systems

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ILLINOIS

TOTAL MILES OF MAIN	CORROSION		PER MILE		DAMAGE BY OUTSIDE FORCE		PER MILE		LEAKS REPAIRED DURING YEAR BY CAUSE		OTHER		PER MILE		TOTAL		PER MILE		
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
YEAR UNKNOWN	1387	824	.59	.34	466	.34	28	.02	88	.06	1331	.82	2537	1.03	2537	1.03			
PRIOR TO 1930	3173	1724	.54	.32	1027	.32	14	.00	105	.03	822	.26	3692	1.16	3692	1.16			
1930 THRU 1939	586	695	1.19	.20	117	.20	2	.00	30	.05	317	.54	1161	1.98	1161	1.98			
1940 THRU 1949	796	1162	1.46	.17	139	.17	11	.01	49	.06	283	.36	1644	2.07	1644	2.07			
1950 THRU 1959	2687	2341	.87	.13	343	.13	166	.06	200	.08	789	.28	3817	1.42	3817	1.42			
1960 THRU 1969	6763	1144	.17	.10	651	.10	128	.02	459	.07	1301	.19	3683	.54	3683	.54			
1970 TO END OF REPORTING YEAR	2635	163	.06	.29	773	.29	137	.05	306	.12	687	.26	2066	.78	2066	.78			
OVER ALL YEARS	18027	8053	.45	.20	3516	.20	486	.03	1245	.07	5300	.29	18600	1.03	18600	1.03			

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR IOWA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION		YEAR BY CAUSE MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	716	1.32	253	.35	66	.09	212	.30	1117	1.56	2590	3.02
PRIOR TO 1930	2341	.22	100	.04	0	.00	400	.17	319	.14	1320	.97
1930 THRU 1939	885	.98	56	.06	12	.01	239	.27	117	.13	1292	1.46
1940 THRU 1949	595	1.01	98	.10	37	.06	233	.39	156	.26	1087	1.83
1950 THRU 1959	3470	.24	205	.06	153	.04	409	.12	318	.09	1926	.56
1960 THRU 1969	8036	.10	635	.08	376	.05	732	.09	555	.07	3096	.39
1970 TO END OF REPORTING YEAR	3592	.05	849	.24	388	.11	908	.25	483	.13	2887	.78
OVER ALL YEARS	19635	.24	2156	.11	1032	.05	3133	.16	3065	.16	14126	.72

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.3-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MICHIGAN

TOTAL MILES OF MAIN	YEAR UNKNOWN	CORROSION		PER MILE		DAMAGE BY OUTSIDE FORCE		PER MILE		LEAKS REPAIRED DURING YEAR BY CAUSE		OTHER		TOTAL	
		NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
7299		435	.06	37	.01	26	.00	81	.01	177	.02	776	.11		
2552	PRIOR TO 1930	1970	.77	545	.21	32	.01	120	.05	2692	1.05	5359	2.10		
689	1930 THRU 1939	790	1.15	176	.26	11	.02	42	.06	792	1.15	1611	2.63		
1046	1940 THRU 1949	1526	1.46	362	.35	14	.01	51	.05	1289	1.23	3242	3.10		
9326	1950 THRU 1959	2728	.29	1649	.18	81	.01	124	.01	2847	.31	7429	.80		
21962	1960 THRU 1969	1371	.06	4287	.20	214	.01	315	.01	3093	.14	9280	.42		
7737	1970 TO END OF REPORTING YEAR	269	.03	5379	.70	207	.03	193	.02	1750	.23	7806	1.01		
50611	OVER ALL YEARS	9089	.18	12455	.25	585	.01	926	.02	12648	.25	35703	.71		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSOURI

TOTAL MILES OF MAIN	CORROSION		PER MILE		DAMAGE BY OUTSIDE FORCE		PER MILE		LEAKS REPAIRED DURING YEAR BY CAUSE		OTHER		PER MILE	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	CONSTRUCTION DEFECT	PER MILE	MATERIAL FAILURE	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	6023	.18	415	.07	18	.00	31	.01	1490	.24	2989	.50		
PRIOR TO 1930	1751	.99	313	.18	6	.00	19	.01	3717	2.12	5776	3.30		
1930 THRU 1939	722	1.50	106	.15	4	.01	31	.04	582	.74	1753	2.43		
1940 THRU 1949	618	1.94	159	.26	9	.01	52	.08	503	.93	2001	3.24		
1950 THRU 1959	3185	.75	575	.18	225	.07	276	.09	2116	.66	5579	1.75		
1960 THRU 1969	6479	.14	1167	.18	531	.09	323	.05	1816	.28	4747	.73		
1970 TO END OF REPORTING YEAR	3999	.06	2330	.50	325	.08	269	.07	1116	.28	4293	1.07		
OVER ALL YEARS	22777	.38	5073	.22	1138	.05	997	.04	11312	.50	27138	1.19		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR OHIO

YEAR UNKNOWN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
23873	26433	1.11	1671	.07	316	.01	532	.02	3955	.17	32907	1.38
4044	5057	1.25	148	.04	18	.00	123	.03	1980	.49	7326	1.81
1229	1962	1.60	125	.10	8	.01	42	.03	477	.39	2614	2.13
1938	2610	1.35	97	.05	14	.01	42	.02	365	.19	3128	1.61
6643	5467	.82	340	.05	34	.01	124	.02	2403	.38	8466	1.27
8163	3267	.40	714	.09	49	.01	111	.01	5197	.63	9298	1.14
5984	838	.14	315	.05	34	.01	382	.06	1426	.24	2995	.50
51874	45634	.88	3418	.07	473	.01	1356	.03	15653	.31	66734	1.29

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 3

TOTAL MILES OF MAIN	CORROSION		PER MILE		DAMAGE BY OUTSIDE FORCE		PER MILE		LEAKS REPAIRED DURING YEAR BY CAUSE		OTHER		PER MILE		TOTAL	
	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
YEAR UNKNOWN	48284	32174	.67	3431	.07	1170	.02	1985	.04	9769	.20	48529	1.01			
PRIOR TO 1930	16515	13050	.79	2429	.15	350	.02	1164	.07	10596	.64	27589	1.67			
1930 THRU 1939	6057	7528	1.24	895	.15	453	.07	587	.10	3124	.51	12567	2.07			
1940 THRU 1949	7369	8958	1.22	1136	.15	742	.10	699	.09	3592	.49	15127	2.05			
1950 THRU 1959	35073	16706	.48	4040	.12	2237	.06	2024	.06	10903	.31	39970	1.03			
1960 THRU 1969	73926	8666	.12	9636	.13	4507	.06	3554	.05	16810	.23	43173	.58			
1970 TO END OF REPORTING YEAR	48677	2347	.05	13455	.28	3853	.08	5726	.12	10756	.22	36137	.74			
OVER ALL YEARS	235901	89429	.38	35022	.15	13312	.06	15739	.07	65500	.28	219092	.93			

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR KANSAS

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	MILES OF MAINS	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
	939	263	306	783	1343	1489	1284	6407	
	53122	7562	3159	7304	67125	60595	64209	263076	
	36	0	0	123	685	1215	787	2846	
	2199	0	0	631	34624	54602	48205	140261	
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	30	0	0	36	89	1286	876	2317	
	2192	0	0	480	3792	46318	37277	90059	
	0	0	2	51	38	109	327	527	
	0	0	0	1809	1754	5130	17991	26684	
	30	0	2	87	127	1395	1203	2844	
	(1)	(0)	(0)	(3)	(4)	(49)	(42)		
	2192	0	0	2289	5546	51448	55268	116743	
	(2)	(0)	(0)	(2)	(5)	(44)	(47)		
PART C TOTAL (%)	TOTAL MILES	TOTAL SERVICES							

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MINNESOTA

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	MILES OF MAINS	UNKNOW	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	103	918	357	476	1919	3963	13086	20822	
COATED PIPE BY COATING DATE	8759	30691	11681	26377	124275	221303	191032	614118	
CATHODICALLY PROTECTED SYSTEMS	0	0	140	157	990	3478	2370	7135	
UNCOATED PIPE BY PROTECTION DATE	0	4	1320	11596	77347	88929	27504	207100	
TOTAL (%)	0	0	0	42	470	2972	3543	7027	
UNCOATED PIPE BY PROTECTION DATE	0	0	0	350	24203	81342	55577	161472	
TOTAL (%)	0	0	0	0	36	101	109	246	
TOTAL MILES	0	0	0	42	506	3073	3652	7273	
TOTAL SERVICES	0	0	0	350	24203	81418	62142	168113	

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEBRASKA

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	349	458	356	310	1136	1133	827	4569
COATED PIPE BY COATING DATE	17282	22102	11927	38539	78662	65238	65035	298785
	259	0	126	166	1018	1109	713	3391
	7623	0	4912	23874	70432	48276	51842	206959
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	12	0	36	166	926	977	1033	3150
	0	0	2339	20722	65932	44088	59717	192798
	0	0	0	48	27	8	192	275
BARE PIPE BY PROTECTION DATE	0	0	0	0	260	287	5371	5918
TOTAL MILES	12 (0)	0 (0)	36 (1)	214 (6)	953 (28)	985 (29)	1225 (36)	3425
PART C TOTAL (%)	0 (0)	0 (0)	2339 (1)	20722 (10)	66192 (33)	44375 (22)	65088 (33)	198716

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WISCONSIN

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	319	411	103	235	2397	9768	4856	18089
COATED PIPE BY COATING DATE	13722	22755	10012	15360	127355	376279	319754	885237
	0	85	1	95	2219	9179	1953	13532
	0	2767	2952	9211	105629	269759	65175	455493
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	0	0	1	32	1235	7762	4440	13470
	0	0	284	2959	47574	275049	116606	442472
BARE PIPE BY PROTECTION DATE	0	0	0	0	7	38	36	81
	0	0	0	0	153	629	1748	2530
TOTAL MILES	(0)	(0)	(0)	(0)	1242 (9)	7800 (58)	4476 (33)	13551
TOTAL SERVICES (%)	(0)	(0)	284 (0)	2959 (1)	47727 (11)	275678 (62)	118354 (27)	445002

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ILLINOIS

PART D	R	NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
PIPE	0	679	2	7	289	262	328	192	3	27 (64)
VALVE	0	16	0	0	8	18	33	40	0	3173 (54)
FITTING	0	51	0	0	46	26	73	49	0	0 (0)
DRIP	0	42	0	1	22	9	12	13	0	155 (3)
REGULATOR	0	12	0	0	5	1	6	10	0	1 (2)
TAP CONNECTION	0	31	0	0	3	4	26	25	0	422 (7)
OTHER	2	387	8	1031	188	63	44	23	1	2 (5)
TOTAL R (%)	4	(10)	16	(38)	3	3	(17)	3	6	174 (3)
TOTAL NR (%)	1218	(21)	2424	(41)	561	383	522	352	421	0 (0)
GRAND TOTAL (%)	1222	(21)	2440	(41)	564	386	529	355	427	148 (3)

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR IOWA

PART D	R	NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
				103	10	1	0	7	29	5	155 (99)
				267	404	430	299	405	257	266	2328 (64)
	R	NR	VALVE	0	0	0	0	0	0	0	0 (0)
				62	17	12	8	34	35	23	191 (5)
	R	NR	FITTING	0	0	0	0	0	0	0	1 (1)
				52	237	90	57	48	109	112	705 (19)
	R	NR	DRIP	0	0	0	0	0	0	0	0 (0)
				21	22	5	2	3	0	3	56 (2)
	R	NR	REGULATOR	0	0	0	0	0	0	0	0 (0)
				40	0	2	1	10	14	10	77 (2)
	R	NR	TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
				4	2	2	12	22	17	15	74 (2)
	R	NR	OTHER	0	0	0	0	0	0	0	0 (0)
				23	42	32	6	17	45	34	199 (5)
			TOTAL R (%)	103 (66)	10 (6)	1 (1)	0 (0)	7 (4)	29 (19)	6 (4)	156
			TOTAL NR (%)	469 (13)	724 (20)	573 (16)	385 (11)	539 (15)	477 (13)	463 (13)	3630
			GRAND TOTAL (%)	572 (15)	734 (19)	574 (15)	385 (10)	546 (14)	506 (13)	469 (12)	3786

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MICHIGAN

PART D	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
	R NR	VALVE	0 15	0 15	0 7	0 29	1 88	0 70	0 25	1 (1) 249 (3)
	R NR	FITTING	0 80	13 549	0 88	0 149	3 365	0 206	0 75	16 (21) 1512 (17)
	R NR	DRIP	0 4	0 27	0 5	0 6	0 4	0 0	0 0	0 (0) 46 (1)
	R NR	REGULATOR	0 0	0 8	0 0	0 0	0 2	2 6	0 5	2 (3) 21 (0)
	R NR	TAP CONNECTION	0 3	0 40	0 13	0 11	0 17	0 22	0 7	0 (0) 113 (1)
	R NR	OTHER	0 5	0 52	0 12	2 22	0 61	0 24	0 26	2 (3) 202 (2)
		TOTAL R (\$)	(0)	(47)	(9)	(8)	(21)	(3)	(13)	77
		TOTAL NR (\$)	337 (4)	3047 (34)	899 (10)	1003 (11)	1637 (18)	863 (10)	1166 (13)	8952
		GRAND TOTAL (\$)	337 (4)	3083 (34)	906 (10)	1009 (11)	1653 (18)	865 (10)	1176 (13)	9029

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSOURI

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
PIPE	R NR 826	4 2350	2 607	0 522	1 1166	22 327	57 730	86 (91) 6528 (75)
VALVE	R NR 24	0 28	0 35	0 25	0 112	2 61	0 42	2 (2) 327 (4)
FITTING	R NR 236	0 348	0 124	0 88	0 239	2 194	0 107	2 (2) 1336 (15)
DRIP	R NR 9	0 28	0 16	0 6	0 45	0 29	0 6	0 (0) 139 (2)
REGULATOR	R NR 1	0 0	0 2	0 0	0 1	2 2	2 4	4 (4) 10 (0)
TAP CONNECTION	R NR 11	0 18	0 16	0 7	0 11	0 6	0 9	0 (0) 78 (1)
OTHER	R NR 44	0 23	0 21	0 13	0 34	0 67	0 61	0 (0) 263 (3)
TOTAL R (%)	(0)	(4)	(2)	(0)	(1)	(30)	(63)	94
TOTAL NR (%)	1151 (13)	2795 (32)	821 (9)	661 (8)	1608 (19)	686 (8)	959 (11)	8681
GRAND TOTAL (%)	1151 (13)	2799 (32)	823 (9)	661 (8)	1609 (18)	714 (8)	1018 (12)	8775

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR OHIO

PART D	R	NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
PIPE	0	15013	367	3945	931	1825	2875	394	150	25133 (88)
VALVE	0	0	367	21	0	42	253	185	19	919 (3)
FITTING	0	946	0	376	96	43	142	185	20	1778 (6)
DRIP	0	38	0	30	7	5	27	10	7	124 (0)
REGULATOR	0	17	0	5	0	3	0	1	3	4 (6)
TAP CONNECTION	0	55	0	13	30	36	11	9	7	161 (1)
OTHER	4	190	0	115	3	0	0	7	4	324 (1)
TOTAL R (%)	10 (15)	6 (9)	2 (3)	3 (4)	3 (4)	3 (4)	3 (4)	8 (12)	38 (52)	67
TOTAL NR (%)	16626 (58)	4505 (16)	1100 (4)	1954 (7)	3320 (12)	781 (3)	213 (1)	28499	28566	
GRAND TOTAL (%)	16636 (58)	4511 (16)	1102 (4)	1957 (7)	3323 (12)	789 (3)	248 (1)	28566		

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 3

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
PIPE	R NR 121 18472	61 11181	32 4431	12 4697	38 7114	76 2663	202 3831	539 (77) 52389 (75)
VALVE	R NR 0 572	1 106	3 117	0 174	3 707	6 819	13 379	26 (4) 2874 (4)
FITTING	R NR 0 1565	13 2347	3 610	1 483	5 1142	3 1292	36 595	61 (9) 8034 (11)
DRIP	R NR 1 156	2 265	0 95	0 63	1 164	0 78	6 40	10 (1) 861 (1)
REGULATOR	R NR 0 79	0 15	0 12	0 10	0 39	6 85	28 88	34 (5) 328 (1)
TAP CONNECTION	R NR 0 137	0 107	0 95	1 121	0 136	1 141	8 177	10 (1) 914 (1)
OTHER	R NR 6 734	9 1718	1 333	2 193	1 355	2 702	1 796	22 (3) 4831 (7)
TOTAL R (%)	128 (18)	86 (12)	39 (6)	16 (2)	48 (6)	94 (13)	294 (42)	702
TOTAL NR (%)	21715 (31)	15739 (22)	5693 (8)	5741 (8)	9657 (14)	5780 (8)	5906 (8)	70231
GRAND TOTAL (%)	21843 (31)	15825 (22)	5732 (8)	5757 (8)	9702 (14)	5874 (8)	6200 (9)	70933

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR INDIANA

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)	
								1	2
PIPE	R NR 997	0 458	0 510	0 698	2 1357	1 1012	2 1092	7 (41)	6124 (48)
VALVE	R NR 38	0 21	0 27	0 40	0 158	0 270	1 118	1 (6)	672 (5)
FITTING	R NR 185	0 58	0 172	1 369	1 1066	0 353	2 127	4 (24)	2330 (18)
DRIP	R NR 1	0 1	0 0	0 5	0 0	0 1	0 0	0 (0)	8 (0)
REGULATOR	R NR 2	0 3	0 0	0 0	0 9	0 13	0 10	0 (0)	37 (2)
TAP CONNECTION	R NR 60	0 26	0 53	0 69	0 195	0 173	3 221	3 (18)	797 (6)
OTHER	R NR 141	0 78	0 156	0 135	0 355	2 999	0 942	2 (12)	2806 (22)
TOTAL R (\$)	(12)	(0)	(0)	(6)	(18)	(18)	(47)	8	17
TOTAL NR (\$)	1424 (11)	645 (5)	918 (7)	1316 (10)	3140 (25)	2821 (22)	2510 (20)	12774	
GRAND TOTAL (\$)	1426 (11)	645 (5)	918 (7)	1317 (10)	3143 (25)	2824 (22)	2518 (20)	12791	

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR KANSAS

PART F	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)		
											0	86
	R		325									
	NR											
	R	VALVE	0	0	0	0	0	0	0	58 (25)		
	NR		10	1	7	5	5	14	51	93 (4)		
	R	FITTING	0	0	0	0	0	0	81	81 (35)		
	NR		125	8	64	67	64	82	180	590 (27)		
	R	DRIP	0	0	0	0	0	0	0	0 (0)		
	NR		4	0	0	1	0	0	0	6 (0)		
	R	REGULATOR	0	0	0	0	0	0	17	17 (7)		
	NR		3	0	1	5	8	24	48	89 (2)		
	R	TAP	0	0	0	0	0	0	8	8 (3)		
	NR	CONNECTION	21	1	7	29	7	1	6	72 (3)		
	P	OTHER	0	0	0	0	0	0	5	5 (2)		
	NR		104	0	1	21	4	29	96	255 (12)		
		TOTAL R (%)	0	0	6	0	2	0	226	234		
			(0)	(0)	(3)	(0)	(1)	(0)	(97)			
		TOTAL NR (%)	592	96	290	241	209	243	502	2173		
			(27)	(4)	(13)	(11)	(10)	(11)	(23)			
		GRAND TOTAL (%)	592	96	296	241	211	243	728	2407		
			(25)	(4)	(12)	(10)	(9)	(10)	(30)			

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MINNESOTA

PART E	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
PIPE		219						822	3944 (75)
VALVE									
	R	0	0	0	0	0	0	0	0 (0)
	NR	5	3	2	0	21	52	117	200 (4)
FITTING									
	R	0	0	0	0	0	0	0	0 (0)
	NR	24	20	13	22	155	216	297	747 (14)
DRIP									
	R	0	0	0	0	0	0	0	0 (0)
	NR	0	6	0	3	0	0	0	9 (0)
REGULATOR									
	R	0	0	0	0	0	0	0	0 (0)
	NR	2	0	0	0	0	24	17	43 (3)
TAP CONNECTION									
	R	0	0	0	0	5	11	10	26 (74)
	NR	8	5	2	13	15	108	116	267 (5)
OTHER									
	R	0	0	0	0	0	0	0	0 (0)
	NR	6	0	0	2	8	7	12	35 (1)
TOTAL R (\$)		0 (0)	0 (0)	0 (0)	1 (3)	5 (14)	16 (46)	13 (37)	35
TOTAL NR (\$)		264 (5)	515 (10)	168 (3)	225 (4)	1019 (19)	1229 (23)	1825 (35)	5245
GRAND TOTAL (\$)		264 (5)	515 (10)	168 (3)	226 (4)	1024 (19)	1245 (24)	1838 (35)	5280

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEBRASKA

PART E	PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
			100	100	281	153	160	123	114	1031 (22)
	VALVE	R NR	0 4	0 4	0 63	0 75	0 153	0 108	4 103	4 (13) 510 (11)
	FITTING	R NR	3 16	0 57	0 172	0 196	2 418	0 425	6 676	11 (34) 1960 (43)
	DRIP	R NR	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 (0) 1 (0)
	REGULATOR	R NR	1 0	0 0	0 56	0 88	3 78	1 39	1 65	6 (19) 326 (6)
	TAP CONNECTION	R NR	0 1	0 2	0 11	0 2	1 10	0 14	0 7	1 (3) 47 (1)
	OTHER	R NR	0 10	0 10	0 86	0 84	0 236	1 133	1 175	2 (6) 734 (16)
	TOTAL R (%)		5 (16)	0 (0)	0 (0)	1 (3)	6 (19)	5 (16)	15 (47)	32
	TOTAL NR (%)		131 (3)	174 (4)	669 (15)	598 (13)	1055 (23)	842 (18)	1140 (25)	4609
	GRAND TOTAL (%)		136 (3)	174 (4)	669 (14)	599 (13)	1061 (23)	847 (18)	1155 (25)	4641

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WISCONSIN

PART E	PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
			0	0	0	0	0	0	0	0
			175	345	72	166	470	805	1019	3052 (25)
	VALVE	R	0	0	0	0	1	1	1	3 (33)
		NR	718	9	5	19	128	382	654	1915 (16)
	FITTING	R	0	0	0	0	0	0	0	0 (0)
		NR	372	47	36	85	490	1493	1370	3893 (32)
	DRIP	R	0	0	0	0	0	0	0	0 (0)
		NR	2	1	0	0	1	1	1	5 (0)
	REGULATOR	R	0	0	0	0	0	0	0	0 (0)
		NR	339	1	0	1	38	149	449	977 (6)
	TAP CONNECTION	R	0	0	0	0	0	1	3	4 (44)
		NR	41	7	4	5	34	126	182	399 (3)
	OTHER	R	0	0	0	0	0	0	0	0 (0)
		NR	1268	9	6	13	112	309	340	2057 (17)
	TOTAL R (\$)		0 (0)	0 (0)	0 (0)	0 (0)	1 (11)	4 (44)	4 (44)	9
	TOTAL NR (\$)		2915 (24)	419 (3)	123 (1)	289 (2)	1273 (10)	3265 (27)	4014 (33)	12298
	GRAND TOTAL (\$)		2915 (24)	419 (3)	123 (1)	289 (2)	1274 (10)	3269 (27)	4018 (33)	12307

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ILLINOIS

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION								
DAMAGE BY OUTSIDE FORCES	466	1027	117	139	343	651	773	3516(19)
CONSTRUCTION DEFECT	28	14	2	11	166	128	137	486(3)
MATERIAL FAILURE	88	105	30	49	208	459	306	1245(7)
OTHER	1131	822	317	283	759	1301	687	5300(28)
TOTAL (%)	2537 (14)	3692 (20)	1161 (6)	1644 (9)	3817 (21)	3683 (20)	2066 (11)	18600

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE								TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	OVER 12"	
STEEL	110	7303	2456	941	292	86	116	136	11440 (64)
WROUGHT IRON	0	0	0	1	0	0	0	0	1 (0)
CAST IRON:	0	43	1237	2585	242	40	246	398	4791 (27)
DUCTILE IRON	0	0	27	269	40	0	59	96	491 (3)
COPPER	14	0	0	0	0	0	0	0	14 (0)
PLASTIC	32	1121	94	5	0	0	0	0	1252 (7)
OTHER	0	0	9	0	0	0	0	0	9 (0)
SYSTEM (%)	156 (1)	8467 (47)	3823 (21)	3801 (21)	574 (3)	126 (1)	421 (2)	630 (4)	17998

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR IOWA

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	942	509	868	603	841	798	179	4740 (34)
DAMAGE BY OUTSIDE FORCES	253	100	56	58	205	635	849	2156 (15)
CONSTRUCTION DEFECT	66	0	12	37	153	376	388	1032 (7)
MATERIAL FAILURE	212	400	239	233	409	732	908	3133 (22)
OTHER	1117	319	117	156	318	555	483	3065 (22)
TOTAL (%)	2590 (18)	1328 (9)	1292 (9)	1087 (8)	1926 (14)	3096 (22)	2807 (20)	14126

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	
STEEL	1620	7720	4593	700	280	85	75	15150 (77)
WROUGHT IRON	0	19	2	2	2	1	0	26 (0)
CAST IRON	0	11	675	169	104	20	43	1033 (5)
DUCTILE IRON	0	0	11	0	2	1	0	14 (0)
COPPER	0	0	0	0	0	0	0	0 (0)
PLASTIC	508	2505	391	8	3	0	0	3415 (17)
OTHER	0	0	0	0	0	0	0	0 (0)
SYSTEM (%)	2128 (11)	10255 (52)	5672 (29)	879 (4)	391 (2)	107 (1)	118 (1)	19638

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MICHIGAN

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	435	1970	790	1526	2728	1371	269	9089(25)
DAMAGE BY OUTSIDE FORCES	57	545	176	362	1649	4287	5379	12455(35)
CONSTRUCTION DEFECT	26	32	11	14	81	214	207	585(2)
MATERIAL FAILURE	81	120	42	51	124	315	193	926(3)
OTHER	177	2692	792	1289	2847	3093	1758	12648(35)
TOTAL (%)	776 (2)	5359 (15)	1811 (5)	3242 (9)	7429 (21)	9280 (26)	7806 (22)	35703

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL (%)	
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"		OVER 12"
STEEL	36	19882	9745	8060	1152	250	363	143	39631 (78)
WROUGHT IRON	0	12	48	19	8	1	2	3	93 (0)
CAST IRON	2	57	3955	1099	596	119	289	95	6212 (12)
DUCTILE IRON	0	0	3	3	0	0	0	0	6 (0)
COPPER	0	2	0	0	0	0	0	0	2 (0)
PLASTIC	23	3657	975	10	2	0	0	0	4667 (9)
OTHER	0	0	0	0	0	0	0	0	0 (0)
SYSTEM (%)	61 (0)	23610 (47)	14726 (29)	9191 (18)	1758 (3)	370 (1)	654 (1)	241 (0)	50611

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSOURI

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
CORROSION	1095	1725	1080	1196	2387	890	245	8618 (32)
DAMAGE BY OUTSIDE FORCES	415	313	106	159	575	1167	2338	5073 (19)
CONSTRUCTION DEFECT	18	6	4	9	225	551	325	1138 (4)
MATERIAL FAILURE	31	15	31	52	276	323	269	997 (4)
OTHER	1430	3717	532	585	2116	1816	1116	11312 (42)
TOTAL (\$)	2989 (11)	5776 (21)	1753 (6)	2001 (7)	5579 (21)	4747 (17)	4293 (16)	27138

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE						TOTAL	TOTAL (\$)	
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"			12"
STEEL	161	8976	5010	1835	788	321	248	205	17544 (77)
WROUGHT IRON	0	10	13	5	0	0	0	0	28 (0)
CAST IRON	0	262	1305	973	121	74	208	92	3035 (13)
DUCTILE IRON	0	21	88	45	9	4	0	0	167 (1)
COPPER	0	3	0	0	0	0	0	0	3 (0)
PLASTIC	26	1543	398	16	0	0	0	0	1983 (9)
OTHER	0	9	0	0	0	0	0	0	9 (0)
SYSTEM (\$)	187 (1)	10824 (48)	6814 (30)	2874 (13)	918 (4)	399 (2)	456 (2)	297 (1)	22769

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR OHIO

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION								
DAMAGE BY OUTSIDE FORCES	1671	148	125	97	348	714	315	3418(5)
CONSTRUCTION DEFECT	316	18	8	14	34	49	34	473(1)
MATERIAL FAILURE	532	123	42	42	124	111	382	1356(2)
OTHER	3955	1980	477	365	2493	5157	1426	15853(24)
TOTAL (%)	32907 (49)	7326 (11)	2614 (4)	3128 (5)	8466 (13)	9298 (14)	2995 (4)	66734

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	OVER 12"	TOTAL	TOTAL (%)
STEEL										
WROUGHT IRON	1	81	305	110	61	24	6	0	588	(1)
CAST IRON	0	7	903	587	215	41	192	57	2002	(4)
DUCTILE IRON	0	0	0	6	0	0	0	0	6	(0)
COPPER	1	4	1	3	0	0	0	0	9	(0)
PLASTIC	25	2112	1361	20	3	0	0	0	3521	(7)
OTHER	0	1	0	0	0	0	0	0	1	(0)
SYSTEM (%)	103 (0)	13264 (26)	25220 (49)	7531 (15)	3451 (7)	915 (2)	800 (2)	590 (1)	51874	

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 3

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
CORROSION	32174	13050	7528	8958	16706	8666	2347	89429(41)
DAMAGE BY OUTSIDE FORCES	3431	2429	895	1136	4040	9636	13455	35022(16)
CONSTRUCTION DEFECT	1170	350	453	742	2237	4507	3853	13312(6)
MATERIAL FAILURE	1985	1164	587	699	2024	3554	5726	15739(7)
OTHER	9769	10596	3104	3592	10963	16810	10756	65590(30)
TOTAL (\$)	48529 (22)	27589 (13)	12567 (6)	15127 (7)	35970 (16)	43173 (20)	36137 (16)	219092

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	OVER 12"	TOTAL	TOTAL (\$)
STEEL	2978	78554	60014	23311	8040	2292	2124	1487	178800	(79)
WROUGHT IRON	3	194	796	301	132	41	23	6	1496	(1)
CAST IRON	2	513	10256	6188	1630	400	1157	759	20905	(9)
DUCTILE IRON	0	24	148	345	60	14	61	96	748	(0)
COPPER	18	9	1	3	0	0	0	0	31	(0)
PLASTIC	783	16751	5435	125	9	0	0	0	23103	(10)
OTHER	9	24	53	12	0	1	1	3	103	(0)
SYSTEM (\$)	3793 (2)	96069 (43)	76703 (34)	30285 (13)	9871 (4)	2748 (1)	3366 (1)	2351 (1)	225186	

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR INDIANA

PART H	UNKNOWN	OVER 1/2"				OVER 2"		OVER 4"		TOTALS (%)
		1/2" OR LESS	THRU 1"	THRU 2"	THRU 4"	THRU 6"	OVER 6"			
STEEL	158	2376	567199	450548	22980	9753	1080	1054134 (84)		
CAST IRON	0	0	140	1	77	4	1	223 (0)		
CUPPER	0	1412	1177	25	0	0	0	2614 (0)		
PLASTIC	0	10201	156046	36609	41	1	0	202898 (16)		
OTHER	3	0	10	65	0	0	0	78 (0)		
TOTAL SYSTEM (#)	(0)	13989 (1)	724572 (58)	487248 (39)	23098 (2)	9758 (1)	1081 (0)	1259947		

NUMBER
 OF
 SERVICES
 IN
 SYSTEM
 AT END
 OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR KANSAS

PART H	STEEL	JUNKDOWN	1/2" OR LESS	OVER 1/2"		OVER 1"		OVER 2"		OVER 4"		TOTALS (%)
				THRU 1"	THRU 1"	THRU 2"	THRU 4"	THRU 6"	THRU 6"	OVER 6"		
	102068	1277	51319	34786	3551	243	3	193247	(78)			
CAST IRON	1201	0	1	561	5	0	0	1768	(1)			
COPPER	0	0	4883	112	242	0	0	5237	(2)			
PLASTIC	19	518	24858	5304	2050	8	0	32757	(13)			
OTHER	14023	40	107	81	280	0	0	14531	(6)			
TOTAL SYSTEM (%)	117311 (47)	1835 (1)	81168 (33)	40844 (16)	6128 (2)	251 (0)	3 (0)	247540				

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MINNESOTA

PART H	JUNKDOWN	1/2" OVER 1/2"		OVER 1"		OVER 2"		OVER 4"		TOTALS (\$)
		JK LESS	THRJ 1"	THR 2"	THR 4"	THR 6"	THR 6"	OVER 6"		
STEEL	52631	443	97866	60442	2047	108	5	213542	(35)	
CAST IRON	0	0	0	0	0	0	1	(0)		
CUPPER	0	28998	16713	6557	0	0	0	52268	(9)	
PLASTIC	0	25919	174222	17051	131	0	0	217323	(35)	
OTHER	130788	0	464	10	3	0	1	131271	(21)	
TOTAL SYSTEM (%)	183419 (30)	55360 (9)	289265 (47)	84060 (14)	2186 (0)	108 (0)	7 (0)	614405		

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEBRASKA

PART II	UNKNOWN	1/2" OR LESS		OVER 1/2" THRU 1"		OVER 1" THRU 2"		OVER 2" THRU 4"		OVER 4" THRU 6"		OVER 6"		TOTALS (%)
		0	150	171797	101631	1876	27	5	275486 (-92)					
STEEL	0	150	171797	101631	1876	27	5	275486 (-92)						
CAST IRON	0	0	0	0	10	5	0	15 (0)						
CUPPER	0	10705	4613	0	0	0	0	15318 (5)						
PLASTIC	0	1007	6568	386	6	0	0	7967 (3)						
OTHER	0	0	0	0	0	0	0	0 (0)						
TOTAL SYSTEM (%)	(0)	11862 (4)	182978 (61)	102017 (34)	1892 (1)	32 (0)	5 (0)	298786						

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WISCONSIN

PART H	UNKNUN	STEEL	1/2" OR LESS	OVER 1/2" THRU 1"	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	OVER 6"	TOTALS (%)
	1147	77276	356301	65716	2801	236	47	503524 (57)	
NUMBER OF SERVICES IN SYSTEM AT END OF YEAR									
CAST IRON	0	0	0	0	0	0	0	0 (0)	
CUPPER	0	5095	663	35802	0	0	0	41560 (5)	
PLASTIC	0	32745	275359	31914	74	0	1	340093 (38)	
OTHER	0	0	0	0	0	0	0	0 (0)	
TOTAL SYSTEM (%)	1147 (0)	115116 (13)	632323 (71)	133432 (15)	2875 (0)	236 (0)	48 (0)	885177	

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ILLINOIS

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES OF MAINS SERVICES INSTALLED DURING YEAR	154	124	278	MILES OF MAINS RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	19813	22337	42150	NUMBER OF SERVICES	10367

PART P	MAINS	SERVICES
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	1771	1876

PART Q	NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	NUMBER OF FIRES
SUFFERING LOST TIME INJURIES	6	6	34

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEE(S) OF CONTRACTORS	FATALITIES	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES
	0	0	6

NUMBER OF NON- EMPLOYEE(S)	FATALITIES	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	OPERATOR	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	TOTAL ESTIMATED VALUE
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN UN-SITE FIRST AID	0	0	\$ 6900230	\$ 295235	\$ 7195465

TOTALS	FATALITIES	INJURIES
	0	21

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (OCT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR IOWA

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MAINS AND SERVICES INSTALLED DURING YEAR	319	136	455	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
	21502	8903	30405	NUMBER OF SERVICES	12779

PART P	PART Q
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	MAINS SERVICES
	1686 3878

PART Q	NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	NUMBER OF FIRES	6
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR		SUFFERING LOST TIME INJURIES	9	5
		FATALITIES	0	1
	NUMBER OF EMPLOYEE(S) OF CONTRACTORS	SUFFERING LOST TIME INJURIES	0	2184761
		FATALITIES	0	\$
	NUMBER OF NON- EMPLOYEE(S)	INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN UN-SITE FIRST AID	5	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR \$
		FATALITIES	0	325574
	TOTALS	FATALITIES	0	TOTAL ESTIMATED VALUE
		INJURIES	14	\$ 2510335

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MICHIGAN

PART I	EXPAN- SION	REPLACEMENT	TOTALS	PART J	PART K
MILES AND SERVICES INSTALLED DURING YEAR	864	136	1000	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	77896	21244	99140	NUMBER OF SERVICES	35102

PART P	NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	MAINS SERVICES	1900
			1483

PART Q	NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	0	NUMBER OF FIRES	100
SUFFERING LOST TIME INJURIES		5		NUMBER OF EXPLOSIONS	20
FATALITIES		0		NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	7
SUFFERING LOST TIME INJURIES		9		ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 9711065
FATALITIES		0		OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 431864
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID		9		TOTAL ESTIMATED VALUE	\$ 10142929
TOTALS		0			
FATALITIES					
INJURIES					23

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSOURI

PART I	EXPLAIN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MAINS AND SERVICES INSTALLED DURING YEAR	254	95	389	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	23877	16677	40554	NUMBER OF SERVICES	12738

PART P	MAINS	MAINS
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	1467	1074

PART Q	FATALITIES	NUMBER OF FIRES	19
NUMBER OF EMPLOYEE(S) OF OPERATOR	0	NUMBER OF FIRES	19
SUFFERING LOST TIME INJURIES	2	NUMBER OF EXPLOSIONS	3
FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	1
SUFFERING LOST TIME INJURIES	0	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 14581177
FATALITIES	0	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR \$	297933
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	6	TOTAL ESTIMATED VALUE	\$ 14879110
TOTALS	0		
FATALITIES	0		
INJURIES	8		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR OHIO

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES OF MAINS	199	388	587	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	8594	49843	58437	NUMBER OF SERVICES	24153

PART P	MAINS	5310
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	SERVICES	7318

PART Q	FATALITIES	0	NUMBER OF FIRES	38
NUMBER OF EMPLOYEE(S) OF OPERATOR	SUFFERING LOST TIME INJURIES	4	NUMBER OF EXPLOSIONS	16

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	22
NUMBER OF CONTRACTORS	SUFFERING LOST TIME INJURIES	3	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 37491905
NUMBER OF NON- EMPLOYEE(S)	FATALITIES	3	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR \$	522917

TOTALS	FATALITIES	3	TOTAL ESTIMATED VALUE	\$ 38014822
INJURIES	22			

3.3.2 Transmission/Gathering Systems

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ILLINOIS

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1960	4	.00	2	.00	3	.00	8	.00	2	.00	19	.00
1960 THRU 1969	15	.00	3	.00	1	.00	19	.00	3	.00	41	.01
1970 TO END OF REPORTING YEAR	2	.00	4	.00	3	.00	7	.00	2	.00	18	.01
OVER ALL YEARS	21	.00	9	.00	7	.00	34	.00	7	.00	78	.01

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR IOWA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1960	635	.14	3	.00	1	.00	1	.00	3	.00	96	.15
1960 THRU 1969	1029	.02	2	.00	0	.00	2	.00	4	.00	26	.03
1970 TO END OF REPORTING YEAR	212	.02	1	.00	0	.00	1	.00	1	.00	7	.03
OVER ALL YEARS	1876	.06	6	.00	1	.00	4	.00	8	.00	129	.07

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MICHIGAN

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1960	6017	.00	0	.00	4	.00	7	.00	4	.00	35	.01
1960 THRU 1969	7138	.00	1	.00	2	.00	1	.00	3	.00	12	.00
1970 TO END OF REPORTING YEAR	1788	.00	1	.00	0	.00	0	.00	1	.00	4	.00
OVER ALL YEARS	14943	.00	2	.00	6	.00	8	.00	8	.00	51	.00

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSOURI

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		MATERIAL FAILURE		LEAKS REPAIRED DURING YEAR BY CAUSE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOK TO 1960	11979	.02	4	.00	0	.00	10	.00	109	.01	339	.03		
1960 THRU 1969	5022	.00	0	.00	0	.00	2	.00	2	.00	6	.00		
1970 TO END OF REPORTING YEAR	990	.00	0	.00	0	.00	0	.00	8	.01	8	.01		
OVER ALL YEARS	17991	.01	4	.00	0	.00	12	.00	119	.01	353	.02		

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR OHIO

TOTAL MILES OF MAIN	CORRUSSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION DEFECT		MATERIAL FAILURE		YEAR BY CAUSE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
50	165	3.30	1	.02	0	.00	0	.00	0	.00	6	.12	172	3.44
1067	641	.60	7	.01	0	.00	0	.00	84	.08	732	.69		
1960 THRU 1965	429	.01	6	.01	0	.00	0	.00	6	.01	18	.04		
1970 TO END OF REPORTING YEAR	188	.04	2	.01	1	.01	0	.00	10	.05	21	.11		
OVER ALL YEARS	1734	.47	16	.01	1	.00	0	.00	106	.06	943	.54		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 3

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	1313	0.15	4	0.00	1	0.00	0	0.00	6	0.00	206	0.16
PRIOR TO 1967	39436	0.03	34	0.00	19	0.00	71	0.00	221	0.01	1685	0.04
1968 THRU 1969	33805	0.00	34	0.00	35	0.00	56	0.00	66	0.00	259	0.01
1970 TO END OF REPORTING YEAR	8529	0.00	13	0.00	14	0.00	16	0.00	28	0.00	90	0.01
OVER ALL YEARS	83083	0.02	85	0.00	69	0.00	143	0.00	321	0.00	2240	0.03

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR INDIANA

PART B	DESCRIP- TION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUC- TION DATE	UNKNOW	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
			990	21	0	6	99	437	338	1891
			0	0	0	1	1	3	2	7
		MILES OF COATED PIPE BY COATING DATE	972	0	0	6	97	437	338	1850
			0	0	0	0	0	3	2	5

PART C

CATHOD- ICALLY PROTECT- ED SYSTEM	MILES OF BARE PIPE BY PROTECTION DATE	UNKNOW	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
		0	0	0	14	287	1196	353	1850
		0	0	0	0	0	3	2	5
		0	0	0	0	0	1	0	1
		0	0	0	0	0	2	0	2
		0	0	0	14	287	1197	353	1851
		0	0	0	0	0	0	0	0
		0	0	0	0	0	5	2	7

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR KANSAS

PART B	DESCRIPTION OF PIPE IN SYSTEM AT END OF YEAR	TRANSMISSION	GATHERING	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
	TRANSMISSION	0	393	275	311	422	363	363	2127		
	GATHERING	0	2	0	1	3	91	206	303		
	TRANSMISSION	0	0	0	163	400	357	363	1283		
	GATHERING	0	0	0	0	0	91	206	297		
PART C											
	TRANSMISSION	0	0	0	0	202	545	500	1247		
	GATHERING	0	0	0	0	0	91	206	297		
	TRANSMISSION	0	0	0	0	6	1	140	147		
	GATHERING	0	0	0	0	0	0	0	0		
	TRANSMISSION	(0)	(0)	(0)	(0)	208	546	640	1394		
	GATHERING	(0)	(0)	(0)	(0)	(15)	(39)	(46)			
	PART C TOTAL (\$)	(0)	(0)	(0)	(0)	(0)	(31)	(69)	297		

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MINNESOTA

PART B	DESCRIP- TION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRU- TION DATE	TRANSMISSION	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
	TRANSMISSION	0	0	0	9	63	130	97	299		
	GATHERING	0	0	0	0	0	0	0	0		0
	TRANSMISSION	0	0	0	1	63	130	97	291		
	GATHERING	0	0	0	0	0	0	0	0		0
	TRANSMISSION	0	0	0	0	23	171	97	291		
	GATHERING	0	0	0	0	0	0	0	0		0
	TRANSMISSION	0	0	0	8	0	0	0	8		
	GATHERING	0	0	0	0	0	0	0	0		0
	TRANSMISSION	0	0	0	8	23	171	97	299		
	GATHERING	0	0	0	0	0	0	0	0		0
	PART C TOTAL (%)	0	0	0	0	0	0	0	0		0
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		(0)

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FJR CALENDAR YEAR 1978

SUMMARY FOR ILLINOIS

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (#)
TRANSMISSION SYSTEM REPAIRED DURING YEAR (BY YEAR INSTALLED)								
BODY OF PIPE	R 0	0	1	1	0	3	0	5 (31)
NR 0	0	2	0	0	0	24	8	34 (55)
GIRTH WELD	R 0	0	1	0	0	1	0	2 (13)
NR 0	0	0	0	1	1	0	0	2 (3)
LONGITUDINAL WELD	R 0	0	0	2	0	0	0	2 (13)
NR 0	0	1	0	0	0	0	0	1 (2)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	1	1 (2)
COMPRESSOR	R 0	0	0	0	1	1	0	2 (13)
NR 0	0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	2	2	0	4 (6)
SCRAPER TKAP	R 0	0	0	0	0	1	0	1 (6)
NR 0	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	1	1 (2)
FITTING	R 0	0	0	0	0	0	1	1 (6)
NR 0	0	0	0	1	2	7	5	15 (24)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	1	2	3 (19)
NR 0	0	2	0	0	2	0	0	4 (6)
TOTALS (%)	R 0	0	2	3	1	7	3	16
NR 0	(0)	(0)	(13)	(19)	(6)	(44)	(19)	
GRAND TOTAL (%)	R 0	0	5	2	7	33	15	62
NR 0	(0)	(0)	(8)	(3)	(11)	(53)	(24)	
	R 0	0	7	5	8	40	18	78
	(0)	(0)	(9)	(6)	(10)	(51)	(23)	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR IOWA

PART D		JUNKDOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (#)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)									
BODY OF PIPE	R NR	0 0	0 10	0 0	0 9	0 16	0 4	0 1	0 (0) 40 (77)
GIRTH WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 2	0 0	0 (0) 2 (4)
SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
FITTING	R NR	0 0	0 0	2 2	1 1	0 0	1 1	0 0	0 (0) 4 (8)
GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER	R NR	0 0	0 0	0 0	1 1	1 1	3 3	0 1	0 (0) 6 (12)
TOTALS (%)	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GRAND TOTAL (#)		0 0	10 19	2 4	11 21	17 33	10 19	2 4	52 52

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100-2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MICHIGAN

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)								
BODY OF PIPE	R 0	0	0	0	0	0	1	1 (9)
NR	0	0	1	8	6	1	0	16 (43)
GIRTH WELD	R 0	0	0	1	1	1	0	3 (27)
NR	0	0	2	0	5	0	0	7 (19)
LONGITUDINAL WELD	R 0	0	0	0	4	0	0	4 (36)
NR	0	0	0	0	0	1	0	1 (3)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	1	0	0	0	1 (9)
NR	0	0	0	1	3	2	1	7 (19)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	1	1	0	2 (5)
FITTING	R 0	0	0	0	0	1	0	1 (9)
NR	0	0	0	0	1	1	0	2 (5)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	1	1 (9)
NR	0	0	0	0	2	2	0	4 (11)
TOTALS (%)	R 0	0	0	2	5	2	2	11
NR	(0)	(0)	(0)	(18)	(45)	(18)	(18)	(18)
GRAND TOTAL (%)	R 0	0	3	9	17	7	1	37
NR	(0)	(0)	(8)	(24)	(46)	(19)	(3)	(3)
GRAND TOTAL (%)	R 0	0	3	11	22	9	3	48
NR	(0)	(0)	(6)	(23)	(46)	(19)	(6)	(6)

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSOURI

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	R 0	2	8	4	0	0	0	14 (37)
	NR 0	180	26	10	4	2	0	222 (73)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R 0	0	0	0	0	0	2	2 (5)
	NR 0	2	4	0	2	0	0	8 (3)
LONGITUDINAL WELD	R 0	0	2	0	0	0	0	2 (5)
	NR 0	0	6	0	0	2	0	8 (3)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
COMPRESSOR	R 0	0	0	0	0	0	6	6 (16)
	NR 0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
CONNECTION	R 0	0	0	0	0	0	0	0 (0)
	NR 0	2	0	0	0	0	0	2 (1)
FITTING	R 0	0	12	0	0	2	0	14 (37)
	NR 0	10	49	2	2	0	0	63 (21)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TOTALS (%)	R 0	2	22	4	0	2	8	38
	NR 0	(5)	(58)	(11)	(0)	(5)	(21)	
GRAND TOTAL (%)	R 0	14	85	12	8	4	0	303
	NR 0	(64)	(28)	(4)	(3)	(1)	(0)	
	R 0	196	107	16	8	6	8	341
	NR 0	(57)	(31)	(5)	(2)	(2)	(2)	

NOTE: "R"=LEAKS REPURIED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR OHIO

PART D	BODY OF PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)	
											0
TRANSMIS- SION SYSTEM LEAKS	GIRTH WELD	R NR	0 44	2 214	0 46	0 19	0 15	0 2	0 1	2 (29) 341 (80)	
REPAIRED DURING YEAR (BY YEAR INSTALLED)	LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	1 0	0 0	1 0	2 (29) 0 (0)	
	OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)	
	COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)	
	VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)	
	SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 3	0 2	0 3	0 (0) 8 (2)	
	TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)	
	FITTING	R NR	0 0	0 65	0 2	0 2	0 3	0 2	1 2	2 (29) 74 (17)	
	GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)	
	OTHER	R NR	0 0	1 0	0 0	0 0	0 0	0 0	0 1	1 (14) 1 (0)	
	TOTALS (%)	R NR	0 44 (10)	3 (43) (66)	0 (0) (12)	0 (0) (5)	1 (14) (5)	1 (14) (1)	2 (29) (1)	7 425	
	GRAND TOTAL (%)	R NR	44 (10)	282 (65)	49 (11)	21 (5)	22 (5)	7 (2)	7 (2)	432	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 3

PART D	NR	JNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANS-MIS-	R	1	8	10	7	7	15	2	50 (45)
SION	NR	73	548	188	104	89	53	14	1069 (70)
SYSTEM	R	0	0	1	1	2	2	3	9 (8)
LEAKS	NR	1	2	6	3	10	3	5	30 (2)
REPAIRED	R	0	2	2	2	4	0	0	10 (9)
DURING	NR	1	0	11	1	0	5	0	18 (1)
YEAR	R	0	0	0	0	0	0	0	0 (0)
(BY YEAR	NR	0	1	0	0	0	0	2	3 (0)
INSTALLED)	R	0	0	0	0	1	1	6	8 (7)
COMPRESSOR	NR	0	0	0	0	0	0	0	0 (0)
VALVE	R	0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	NR	0	0	0	1	0	0	1	2 (2)
TAP	R	0	0	0	1	9	19	5	34 (2)
CONNECTION	NR	0	0	0	0	0	0	0	1 (1)
FITTING	R	2	0	13	0	0	4	3	22 (20)
GAS CUDLER	NR	0	84	63	13	10	74	16	260 (17)
OTHER	R	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	NR	0	1	1	0	0	3	4	9 (8)
GRAND TOTAL (%)	R	3	11	27	11	14	26	19	111
	NR	(3)	(10)	(24)	(10)	(13)	(23)	(17)	1520
		75	99	279	134	134	202	50	
		(5)	(43)	(18)	(9)	(9)	(13)	(3)	
		78	665	306	145	148	228	69	1631
		(5)	(40)	(19)	(9)	(9)	(14)	(4)	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR INDIANA

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
BODY OF PIPE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
GIRTH WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
FITTING	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TOTALS (%)	R NR	(0) (0)	(0) (0)	(0) (0)	(0) (0)	(0) (0)	(0) (0)	0 0
GRAND TOTAL (%)	R NR	(0) (0)	(0) (0)	(0) (0)	(0) (0)	(0) (0)	(0) (0)	0 0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR KANSAS

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R NR	0 0	0 0	0 0	0 0	0 1	0 0	0 (0) 1 (25)
BODY OF PIPE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
GIRTH WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
FITTING	R NR	0 3	0 0	0 0	0 0	0 0	0 0	0 (0) 3 (75)
GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TOTALS (%)	R NR	(0) 3	(0) 0	(0) 0	(0) 0	(0) 1	(0) 0	0 4
GRAND TOTAL (%)	R NR	(0) 3	(0) 0	(0) 0	(0) 0	(25) 1	(0) 0	4 4

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MINNESOTA

PART E	BODY OF PIPE	R NR	UNKNOWN	PRIOR TO 1950	1950 THRU 1959	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	BODY OF PIPE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	GIRTH WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	FITTING	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	TOTALS (%)	R NR	(0) 0	(0) 0	(0) 0	(0) 0	(0) 0	(0) 0	(0) 0	0 0
	GRAND TOTAL (%)		(0) 0	(0) 0	(0) 0	(0) 0	(0) 0	(0) 0	(0) 0	0 0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEBRASKA

PART E	UNKNOWN	PRIOR TO 1937	1937 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R NR	0 0	0 1	0 0	0 0	0 0	0 0	0 (0) 1 (100)
BODY OF PIPE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
GIRTH WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
FITTING	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TOTALS (%)	R NR	(0) (0)	(0) 1 (100)	(0) (0)	(0) (0)	(0) (0)	(0) (0)	0 1
GRAND TOTAL (%)	R NR	(0) (0)	1 (100)	(0) (0)	(0) (0)	(0) (0)	(0) (0)	1 1

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WISCONSIN

PART E	BODY OF PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	BODY OF PIPE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	GIRTH WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	FITTING	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
	TOTALS (%)	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	GRAND TOTAL (%)		0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 194.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ILLINOIS

PART F	TOTAL LEAKS REPAIRED DURING YEAR BY CAUSE (NUMBER BY YEAR INSTALLED)	1960				1965				1968				1/1/70 TO 12/31 OF REPORTING YEAR		SYSTEM TOTAL (%)
		UNKNOWN	TC	THRU 1960	THRU 1964	THRU 1967	THRU 1969	THRU 1969	THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	1/1/70 TO 12/31 OF REPORTING YEAR					
	CORROSION	0	0	4	4	9	2	2	2	2	21 (27)	2	2	2	21 (27)	
	DAMAGE BY OUTSIDE FORCE	0	0	2	0	0	0	3	4	4	9	3	4	4	9	
	CONSTRUCTION DEFECT	0	0	4	0	1	0	0	3	3	8	0	3	3	8	
	MATERIAL FAILURE	0	0	8	1	1	1	17	7	7	34	17	7	7	34	
	OTHER	0	0	2	3	0	0	0	2	2	7	0	2	2	7	
	TOTAL (%)	0	0	20 (25)	8 (10)	11 (14)	22 (28)	18 (23)	18 (23)	18 (23)	79	22 (28)	18 (23)	18 (23)	79	

PART G

BY MATERIAL	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL	TRANSMISSION		GATHERING		SYSTEM TOTAL (%)
					MISSION	MISSION	MISSION	MISSION	
TRANSMISSION GATHERING	13101 65	100 100	0 0	0 0	0 0	0 0	0 0	0 0	13101 65
1" OR LESS	3 (0)	16"	413 (3)	0	413 (3)	0	0	0	0
OVER 1" THRU 2"	783 (5)	18"	107 (1)	0	107 (1)	0	10	0	10
OVER 2" THRU 4"	1303 (9)	20"	603 (4)	0	603 (4)	0	2296	0	2296
OVER 4" THRU 6"	757 (5)	22"	166 (1)	0	166 (1)	0	1	0	1
8"	681 (5)	24"	1765 (12)	0	1765 (12)	0	6	0	6
10"	480 (3)	26"	1296 (9)	0	1296 (9)	0	89	0	89
12"	554 (4)	28"	0	0	0	0	0	0	0
14"	20 (0)	30"	3128 (22)	0	3128 (22)	0	14461 (99)	77 (1)	14538

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR IOWA

PART F

TOTAL LEAKS REPAIRED DURING YEAR BY CAUSE (NUMBER BY YEAR INSTALLED)	UNKNOWN	PRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
CORROSION	0	88	2	15	4	1	110 (85)
DAMAGE BY OUTSIDE FORCE	0	3	1	1	1	0	6 (5)
CONSTRUCTION DEFECT	0	1	0	0	0	0	1 (1)
MATERIAL FAILURE	0	1	0	1	1	1	4 (3)
OTHER	0	3	1	1	1	2	8 (6)
TOTAL (%)	0	96	4	18	4	7	129
	(0)	(74)	(3)	(14)	(3)	(5)	

PART G

BY MATERIAL	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL		
				TRANSMISSION GATHERING	TRANSMISSION GATHERING	SYSTEM TOTAL (%)
TRANSMISSION GATHERING	1871 (100)	5 (0)	0 (0)	1876	0	0
	984 (97)	17 (3)	0 (0)	601	0	0
BY NOMINAL SIZE	TRANSMISSION GATHERING	TRANSMISSION GATHERING	SYSTEM TOTAL (%)	TRANSMISSION GATHERING	SYSTEM TOTAL (%)	
1" OR LESS	6	49	55 (2)	16"	46	32"
OVER 1" THRU 2"	104	37	141 (6)	18"	2	34"
OVER 2" THRU 4"	718	312	1030 (42)	20"	0	36"
OVER 4" THRU 6"	408	97	505 (20)	22"	84	38"
8"	203	107	310 (13)	24"	84	40"
10"	141	1	142 (6)	26"	0	42"
12"	78	0	78 (3)	28"	0	ABOVE 42"
14"	0	0	0 (0)	30"	0	TOTAL (%)
					1874	683
					(76)	(24)
					2477	

MILES OF PIPE IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MICHIGAN

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	PRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
CORROSION	0	20	5	0	0	2	27 (53)
DAMAGE BY OUTSIDE FORCE	0	0	1	0	0	1	2 (4)
CONSTRUCTION DEFECT	0	4	0	1	1	0	6 (12)
MATERIAL FAILURE	0	7	0	1	0	0	8 (16)
OTHER	0	4	0	0	3	1	8 (16)
TOTAL (%)	(0)	(69)	(12)	(4)	(8)	(8)	51

PART G

BY
 MATERIAL

	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL
TRANSMISSION GATHERING	14942 (100)	0 (0)	0 (0)	14942
	700 (99)	4 (1)	0 (0)	704

BY
 NOMINAL
 SIZE

	TRANSMISSION MISSION	GATHERING	SYSTEM TOTAL (%)	TRANSMISSION MISSION	GATHERING	SYSTEM TOTAL (%)
1" OR LESS	0	0	0 (0)	730	32	762 (5)
OVER 1" THRU 2"	146	5	151 (1)	1	0	1 (0)
OVER 2" THRU 4"	1088	97	1185 (6)	409	88	497 (3)
OVER 4" THRU 6"	1171	106	1277 (9)	625	0	625 (4)
8"	1136	54	1190 (3)	2611	102	2713 (19)
10"	681	31	712 (5)	462	0	462 (3)
12"	974	53	1027 (7)	0	0	0 (0)
14"	41	1	42 (3)	3014	135	3149 (22)
				3014	135	3149 (22)
				130843	704	13847 (5)

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MISSOURI

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	FRIDR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
CORROSION	0	216	2	0	0	0	218 (62)
DAMAGE BY OUTSIDE FORCE	0	4	0	0	0	0	4 (1)
CONSTRUCTION DEFECT	0	0	0	0	0	0	0 (0)
MATERIAL FAILURE	0	10	0	0	2	0	12 (3)
OTHER	0	109	2	0	0	0	119 (34)
TOTAL (%)	0	339 (96)	4 (1)	0 (0)	2 (1)	0 (2)	353

PART G

BY
 MATERIAL

	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL
TRANSMISSION GATHERING	17991 (100) 40 (100)	0 (0) 0 (0)	0 (0) 0 (0)	17991 40

BY
 NOMINAL
 SIZE

	TRANSMISSION MISSION	GATHERING	SYSTEM TOTAL (%)	TRANSMISSION MISSION	GATHERING	SYSTEM TOTAL (%)
1" OR LESS	0	0	0 (0)	798	4	802 (4)
OVER 1" THRU 2"	145	145	18" (1)	727	2	729 (4)
OVER 2" THRU 4"	679	693	20" (4)	867	0	867 (5)
OVER 4" THRU 6"	531	535	22" (3)	3102	0	3102 (17)
6"	464	474	24" (3)	3101	4	3105 (17)
10"	541	543	26" (3)	2831	0	2831 (16)
12"	1119	1119	28" (6)	6	0	6 (0)
14"	46	46	30" (0)	2922	0	2922 (16)
TOTAL	0	0	0	17989	40	18029 (0)

MILES OF PIPE
 IN SYSTEM AT

END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR OHIO

PART F	TOTAL LEAKS REPAIRED DURING YEAR BY CAUSE (NUMBER BY YEAR INSTALLED)	FRIOR TC 1960				1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
		UNKNOWN	641	5	1				
	CORROSION	165	641	5	1	0	0	820	
	DAMAGE BY OUTSIDE FORCE	1	7	4	2	0	2	(87)	
	CONSTRUCTION DEFECT	0	0	0	0	0	1	16	
	MATERIAL FAILURE	0	0	0	0	0	0	(2)	
	OTHER	6	84	5	1	0	0	(1)	
	TOTAL (%)	172 (18)	732 (78)	14 (1)	4 (0)	0 (0)	21 (2)	943	

PART G

BY MATERIAL	TRANSMISSION GATHERING	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL	1734	1845	1734 (48)	1845 (52)
	TRANSMISSION GATHERING	1732 (100)	2 (0)	0 (0)	0 (0)	1734	1845	1734 (48)	1845 (52)
	1" OR LESS	0 (0)	16" (0)	37 (2)	67 (0)	0	0	0 (0)	0 (0)
	OVER 1" THRU 2"	14 (5)	18" (5)	260 (7)	260 (0)	0	0	0 (0)	0 (0)
	OVER 2" THRU 4"	40 (30)	20" (30)	554 (16)	561 (0)	0	0	0 (0)	0 (0)
	OVER 4" THRU 6"	87 (11)	22" (11)	0 (0)	0 (0)	0	0	0 (0)	0 (0)
	6" A"	67 (8)	24" (8)	75 (2)	75 (0)	0	0	0 (0)	0 (0)
	10"	66 (3)	26" (3)	107 (3)	107 (0)	0	0	0 (0)	0 (0)
	12"	131 (5)	28" (5)	0 (0)	0 (0)	0	0	0 (0)	0 (0)
	14"	6 (0)	30" (0)	290 (8)	290 (0)	0	0	0 (0)	0 (0)

MILES OF PIPE IN SYSTEM AT END OF YEAR

MILES OF PIPE IN SYSTEM AT END OF YEAR	TRANSMISSION GATHERING	SYSTEM TOTAL (%)	1734	1845	1734 (48)	1845 (52)
	TRANSMISSION GATHERING	1732 (100)	2 (0)	0 (0)	0 (0)	0 (0)
	1" OR LESS	0 (0)	16" (0)	37 (2)	67 (0)	0 (0)
	OVER 1" THRU 2"	14 (5)	18" (5)	260 (7)	260 (0)	0 (0)
	OVER 2" THRU 4"	40 (30)	20" (30)	554 (16)	561 (0)	0 (0)
	OVER 4" THRU 6"	87 (11)	22" (11)	0 (0)	0 (0)	0 (0)
	6" A"	67 (8)	24" (8)	75 (2)	75 (0)	0 (0)
	10"	66 (3)	26" (3)	107 (3)	107 (0)	0 (0)
	12"	131 (5)	28" (5)	0 (0)	0 (0)	0 (0)
	14"	6 (0)	30" (0)	290 (8)	290 (0)	0 (0)

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 3

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	1965 THRU 1967	1966 THRU 1964	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
DAMAGE BY OUTSIDE FORCE	32	17	4	19	1622 (72)
CONSTRUCTION DEFECT	7	23	13	14	(4)
MATERIAL FAILURE	3	32	3	21	(3)
OTHER	21	32	21	13	143 (6)
TOTAL (%)	76	76	49	90	321 (14)

PART G

BY
 MATERIAL

	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL
TRANSMISSION GATHERING	76108 (97)	2009 (3)	0 (0)	78117
	3601 (99)	29 (1)	1 (0)	3631

BY
 NOMINAL
 SIZE

	1" OR LESS	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	TRANS- MISSION GATHERING	TRANS- MISSION GATHERING	SYSTEM TOTAL (%)
TRANSMISSION GATHERING	92	49	141 (0)	16"	4510	80	4590 (6)	32"	0	0	0	0	(0)
OVER 1" THRU 2"	6362	229	6591 (8)	18"	1323	17	1340 (2)	34"	10	0	0	10	(0)
OVER 2" THRU 4"	9003	1650	10653 (13)	20"	3978	95	4073 (5)	36"	3183	0	0	3183	(4)
OVER 4" THRU 6"	6007	601	6608 (8)	22"	4109	0	4109 (5)	38"	1	0	0	1	(0)
8"	4884	469	5353 (7)	24"	9202	106	9308 (11)	40"	6	0	0	6	(0)
10"	3246	95	3341 (4)	26"	5746	0	5746 (7)	42"	219	0	0	219	(0)
12"	4814	118	4932 (6)	28"	6	0	6 (0)	ABOVE 42"	0	0	0	0	(0)
14"	215	1	216 (0)	30"	11458	135	11593 (14)	TOTAL (%)	78374 (96)	3645 (4)	82019	82019	(4)

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR INDIANA

PART H		PART I		PART J		
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN- SION	REPLACE- MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
		13	1		2	2
		0	0		0	0
		13	1		2	1858

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	TRANSMISSION	GATHERING
	0	0

PART N

NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	1	NUMBER OF FIRES	1
	SUFFERING LOST TIME INJURIES	0	NUMBER OF EXPLOSIONS	0

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEE(S) OF CONTRACTORS	FATALITIES	SUFFERING LOST TIME INJURIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	OPERATOR	\$	43547
							OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR		\$	0
							TOTAL ESTIMATED VALUE		\$	43547

TOTALS

FATALITIES	1
INJURIES	0

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR KANSAS

PART H		PART I			PART J	
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN- SION	REPLACE- MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
		4	4	55	55	
		29	0	3	3	
		33	4	58	58	1691

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	TRANSMISSION	GATHERING
	43	2

PART N

FATALITIES	NUMBER OF EMPLOYEE(S) OF OPERATOR	NUMBER OF FIRES
	0	1

SUFFERING LOST TIME INJURIES	NUMBER OF EMPLOYEES(S) OF CONTRACTORS	NUMBER OF EXPLOSIONS
	0	0

FATALITIES	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	OPERATOR
	0	4075

SUFFERING LOST TIME INJURIES	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	OTHER---FOR ALL CASES SETTLED DURING THE REPORTING YEAR
	0	0

FATALITIES	INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	TOTAL ESTIMATED VALUE
	0	\$ 4075

TOTALS	FATALITIES	INJURIES
	0	0

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MINNESOTA

PART H		PART I		PART J		
MILES INSTALLED DURING YEAR	SYSTEM	EXPAN- SION	REPLACE- MENT	MILES RETIRED DURING YEAR	SYSTEM	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
	TRANSMISSION	3	0		TRANSMISSION	0
	GATHERING	0	0		GATHERING	0
	TOTAL	3	0		TOTAL	0
						299

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

TRANSMISSION	0
GATHERING	0

PART N

NUMBER OF EMPLOYEE(S) OF OPERATOR

FATALITIES	0	NUMBER OF FIRES	0
SUFFERING LOST TIME INJURIES	0	NUMBER OF EXPLOSIONS	0

NUMBER OF EMPLOYEE(S) OF CONTRACTORS

FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
SUFFERING LOST TIME INJURIES	0	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	
		OPERATOR	\$ 18270

NUMBER OF NON-EMPLOYEE(S)

FATALITIES	0	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 0
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	0	TOTAL ESTIMATED VALUE	\$ 18270

TOTALS

FATALITIES	0		
INJURIES	0		

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEBRASKA

PART H		PART I		PART J		
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN-SION	REPLACE-MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
		68	12		20	
		0	0		0	
		68	12		20	21189

PART M	NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	TRANSMISSION	GATHERING
		73	0

PART N	FATALITIES	NUMBER OF EMPLOYEE(S) OF OPERATOR	NUMBER OF FIRES
		0	6
	SUFFERING LOST TIME INJURIES	0	0
	FATALITIES	0	2
	SUFFERING LOST TIME INJURIES	0	
	FATALITIES	1	350472
	INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	0	
TOTALS	FATALITIES	1	\$ 354937
	INJURIES	0	

PART O	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	OTHER---FOR ALL CASES SETTLED DURING THE REPORTING YEAR \$	TOTAL ESTIMATED VALUE
		4465	\$ 354937

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WISCONSIN

PART H		PART I			PART J	
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN- SION	REPLACE- MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
	0	0	0	0	0	325

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	TRANSMISSION	GATHERING
	0	0

PART N

FATALITIES	NUMBER OF FIRES
SUFFERING LOST TIME INJURIES	NUMBER OF EXPLOSIONS
FATALITIES	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES
SUFFERING LOST TIME INJURIES	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:
FATALITIES	OPERATOR
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR
FATALITIES	TOTAL ESTIMATED VALUE
INJURIES	
0	0
0	0
0	0
0	\$
0	0
0	\$
0	0
0	\$

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEE(S) OF OPERATOR	NUMBER OF EMPLOYEE(S) OF CONTRACTORS	NUMBER OF NON-EMPLOYEE(S)
	0	0	0

TOTALS	FATALITIES	INJURIES
	0	0

3.4 SOUTHWEST REGION (REGION IV)

3.4.1 Distribution Systems

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION		YEAR BY CAUSE		OTHER NO.	PER MILE	TOTAL NO.	PER MILE
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE				
YEAR UNKNOWN	720	.22	3	.00	0	.00	0	.00	24	.03	104	.26
PRIOR TO 1930	106	.41	0	.00	0	.00	0	.00	3	.03	46	.43
1930 THRU 1939	57	.58	3	.05	0	.00	0	.00	28	.49	64	1.12
1940 THRU 1949	189	1.31	3	.02	51	.27	27	.14	59	.31	387	2.05
1950 THRU 1959	1364	.25	106	.08	150	.11	288	.21	81	.06	967	.71
1960 THRU 1969	1586	.09	39	.02	109	.07	76	.05	92	.05	437	.28
1970 TO END OF REPORTING YEAR	1147	.06	98	.09	51	.04	63	.05	34	.03	316	.28
OVER ALL YEARS	5169	.20	252	.05	361	.07	454	.09	301	.06	2401	.46

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	20	.05	2	.10	0	.00	0	.00	0	.00	4	.20	7	.35
PRIOR TO 1930	15	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1930 THRU 1939	85	1.34	1	.01	1	.01	4	.05	46	.54	46	.54	166	1.95
1940 THRU 1949	97	1.43	19	.20	13	.13	40	.41	82	.85	82	.85	293	3.02
1950 THRU 1959	283	.68	45	.16	21	.07	71	.25	287	.73	287	.73	536	1.89
1960 THRU 1969	1401	.04	208	.15	72	.05	268	.19	268	.19	268	.19	872	.62
1970 TO END OF REPORTING YEAR	619	.02	188	.30	206	.33	136	.22	192	.31	192	.31	733	1.18
OVER ALL YEARS	2520	.20	463	.18	313	.12	519	.21	799	.32	799	.32	2607	1.03

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	15388	.20	1420	.09	837	.05	1789	.12	3840	.25	38939	.71		
PRIOR TO 1930	7351	.22	610	.08	282	.04	619	.08	792	.10	3856	.52		
1930 THRU 1939	4365	.86	934	.21	361	.08	607	.14	1023	.23	6662	1.53		
1940 THRU 1949	9590	.72	2170	.23	766	.08	1103	.12	1794	.19	12742	1.33		
1950 THRU 1959	20708	.52	3685	.18	1823	.09	2433	.12	3631	.18	22381	1.08		
1960 THRU 1969	25861	.22	3575	.14	1497	.06	1729	.07	2588	.10	14920	.58		
1970 TO END OF REPORTING YEAR	24283	.42	10074	.41	1563	.06	1397	.06	2597	.11	25787	1.06		
OVER ALL YEARS	107546	.39	22468	.21	7129	.07	9677	.09	16195	.15	97287	.90		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	720	106	57	189	1364	1586	1147	5169
COATED PIPE BY COATING DATE	22037	3083	3044	10089	68463	52534	56045	215295
	17	0	0	3	990	1515	538	3063
	431	0	0	365	46009	50579	32488	129872
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	0	0	0	0	553	904	1134	2591
	0	0	0	0	31670	28560	51246	111476
BARE PIPE BY PROTECTION DATE	0	0	0	3	2	0	466	471
	0	0	0	116	88	0	21783	21987
PART C TOTAL (%)	0 (0)	0 (0)	0 (0)	3 (0)	555 (18)	904 (30)	1600 (52)	3062
	0 (0)	0 (0)	0 (0)	116 (0)	31758 (24)	28560 (21)	73029 (55)	133463

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	MILES OF MAINS	NUMBER SERVICES	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	913	59	1783	3923	12438	21753	30043	70912		
COATED PIPE BY COATING DATE	0	0	68	53	188	922	290	1521		
	0	0	1724	2788	8833	17080	22854	53279		
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	0	0	0	0	3	779	565	1347		
BAKE PIPE BY PROTECTION DATE	0	0	0	0	1	104	19	124		
	0	0	0	0	36	3280	634	3950		
TOTAL MILES	0	0	0	0	4	883	584	1471		
TOTAL SERVICES	(0)	(0)	(0)	(0)	(0)	(60)	(40)	(40)		
PART C TOTAL (Σ)	0	0	0	0	228	14038	31674	45940		
	(0)	(0)	(0)	(0)	(0)	(31)	(69)	(69)		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	15388	7351	4365	9590	20708	25861	24283	107546
COATED PIPE BY COATING DATE	949152	383426	225561	742127	1247795	988156	1266867	5803084
CATHODI- CALLY PRO- TECTED SYSTEMS	12969	4243	3617	7035	19128	20609	14222	81823
COATED PIPE BY PROTECTION DATE	942263	252430	206613	634626	862996	933967	768766	4601661
BARE PIPE BY PROTECTION DATE	4502	0	14	2066	15819	19006	35434	76841
	328362	0	1484	105774	866189	1083938	2160737	4546484
	0	4	11	286	494	417	4397	5609
	447	144	468	11177	42725	20458	96939	172358
TOTAL MILES	4502 (5)	4 (0)	25 (0)	2352 (3)	16313 (20)	19423 (24)	39831 (48)	82450
TOTAL SERVICES (%)	328809 (7)	144 (0)	1952 (0)	116951 (2)	908914 (19)	1104396 (23)	2257676 (48)	4718842

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

PART D	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
			132	0	0	0	0	119	83	854 (71)
	R NR	VALVE	0	0	0	0	0	0	0	0 (0)
	R NR		1	0	0	2	20	5	10	38 (3)
	R NR	FITTING	0	0	0	0	0	0	0	0 (0)
	R NR		18	3	7	36	67	45	16	192 (16)
	R NR	DRIP	0	0	0	0	0	0	0	0 (0)
	R NR		0	0	0	0	0	0	0	0 (0)
	R NR	REGULATOR	0	0	0	0	0	0	0	0 (0)
	R NR		0	0	0	1	9	0	4	14 (1)
	R NR	TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
	R NR		0	0	0	0	47	6	6	59 (5)
	R NR	OTHER	0	0	0	0	0	0	0	0 (0)
	R NR		2	0	0	6	28	7	4	47 (4)
		TOTAL R (\$)	0 (0)	0 (0)	0 (0)	0 (0)	0 (33)	0 (0)	4 (67)	6
		TOTAL NR (\$)	153 (13)	41 (3)	42 (3)	254 (21)	409 (34)	182 (15)	123 (10)	1204
		GRAND TOTAL (\$)	153 (13)	41 (3)	42 (3)	254 (21)	411 (34)	182 (15)	127 (10)	1210

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

PART D	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (0)	
											0
	3				76	101		121	139	63	13 (76) 503 (73)
VALVE	0				0	0		0	0	0	0 (0)
	1				0	3		3	16	42	65 (9)
FITTING	0				0	0		0	0	0	0 (0)
	2				6	0		5	23	45	81 (12)
DRIP	0				0	0		0	0	0	0 (0)
	0				0	0		0	0	0	0 (0)
REGULATOR	0				0	0		0	0	0	0 (0)
	1				0	0		0	6	18	25 (1)
TAP CONNECTION	0				0	0		0	0	0	0 (0)
	0				0	5		4	4	1	14 (2)
OTHER	0				0	0		0	0	4	4 (24)
	0				0	0		2	1	1	4 (1)
TOTAL R (\$)	(0)				(0)	(0)		(18)	10	(24)	17
TOTAL NR (\$)	7				82	109		135	189	170	692
GRAND TOTAL (\$)	(1)				(12)	(16)		(20)	(27)	(25)	709
	7				82	109		138	199	174	709
	(1)				(12)	(15)		(19)	(26)	(25)	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
PIPE	R NR 10 1755	5 1128	25 1982	15 2680	47 4652	57 2687	1768 5541	1927 (94) 19825 (76)
VALVE	R NR 1 64	0 78	1 109	1 203	1 379	0 339	17 199	21 (1) 1371 (5)
FITTING	R NR 0 180	0 195	3 283	0 441	0 662	1 431	31 411	35 (2) 2603 (10)
DRIP	R NR 0 1	0 23	0 4	0 12	0 5	1 7	15 18	16 (1) 70 (0)
REGULATOR	R NR 0 9	0 0	0 1	0 3	0 3	0 11	3 41	3 (0) 68 (1)
TAP CONNECTION	R NR 0 52	0 16	2 26	0 48	6 71	3 100	26 312	37 (2) 625 (2)
OTHER (BY YEAR INSTALLED)	R NR 0 111	0 261	0 255	0 164	0 328	0 179	1 236	1 (0) 1534 (6)
TOTAL R (\$)	11 (1)	5 (0)	31 (2)	16 (1)	54 (3)	62 (3)	1861 (91)	2040
TOTAL NR (\$)	2172 (8)	1701 (7)	2660 (10)	3551 (14)	5800 (21)	3754 (14)	6758 (26)	26096
GRAND TOTAL (\$)	2183 (8)	1706 (6)	2691 (10)	3567 (13)	5854 (20)	3816 (14)	8619 (31)	28136

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

PART E	PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)	
											0
	VALVE	R NR	0 0	0 0	0 0	0 5	0 74	0 36	0 36	0 (0) 151 (13)	
	FITTING	R NR	0 10	0 0	0 3	0 46	0 184	0 142	0 60	0 (0) 445 (38)	
	DRIP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 (0) 1 (0)	
	REGULATOR	R NR	0 0	0 0	0 0	0 10	0 21	0 9	0 29	0 (0) 69 (4)	
	TAP CONNECTION	R NR	0 0	0 0	0 0	0 9	0 41	0 3	0 12	0 (0) 65 (5)	
	OTHER	R NR	0 0	0 0	0 0	0 12	0 21	0 23	0 21	0 (0) 77 (7)	
	TOTAL R (\$)		0 (0)	0 (0)	1 (14)	0 (0)	6 (86)	0 (0)	0 (0)	7	
	TOTAL NR (\$)		31 (3)	5 (0)	21 (2)	133 (11)	467 (39)	279 (24)	248 (21)	1184	
	GRAND TOTAL (\$)		31 (3)	5 (0)	22 (2)	133 (11)	473 (40)	279 (23)	248 (21)	1191	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939			1940 THRU 1949		1950 THRU 1959		1960 THRU 1969		1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
			R	NR	R	NR	R	NR	R	NR	R		
PIPE	0	0	0	0	27	61	2	114	1	145	2	5 (7)	
	0	0	0	0	27	61	2	114	1	145	45	392 (21)	
VALVE	0	0	0	0	0	0	0	0	0	4	0	4 (5)	
	0	0	0	0	16	30	30	61	61	203	139	449 (24)	
FITTING	0	0	0	0	0	0	0	10	6	6	41	57 (77)	
	0	0	0	0	9	88	88	127	127	165	247	636 (33)	
DRIP	0	0	0	0	0	0	0	0	0	0	0	0 (0)	
	0	0	0	0	0	0	0	0	0	1	0	1 (0)	
REGULATOR	0	0	0	0	0	0	0	1	1	1	3	5 (7)	
	0	0	0	0	23	9	9	36	36	55	49	172 (7)	
TAP CONNECTION	0	0	0	0	0	0	0	0	0	0	3	3 (4)	
	0	0	0	0	6	2	2	24	24	8	20	60 (3)	
OTHER	0	0	0	0	0	0	0	0	0	0	0	0 (0)	
	0	0	0	0	1	16	16	41	41	76	63	197 (10)	
TOTAL R (%)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (3)	2 (3)	12 (16)	12 (16)	11 (15)	49 (66)	74	
TOTAL NR (%)	0 (0)	0 (0)	0 (0)	0 (0)	82 (4)	206 (11)	206 (11)	403 (21)	403 (21)	653 (34)	563 (30)	1907	
GRAND TOTAL (%)	0 (0)	0 (0)	0 (0)	0 (0)	82 (4)	208 (10)	208 (10)	415 (21)	415 (21)	664 (34)	612 (31)	1981	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

PART E	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
	R NR	10 2148	1 1221	3 2588	7 5941	25 9755	13 6185	74 8316	133 (31) 36154 (59)	
	R NR	0 449	1 56	0 133	0 346	0 676	0 464	33 1626	34 (8) 3750 (6)	
	R NR	0 1555	1 700	0 1002	5 2274	16 3047	14 1643	132 3322	168 (39) 13543 (22)	
	R NR	0 20	0 4	0 0	0 5	0 7	0 11	0 7	0 (0) 54 (0)	
	R NR	2 723	0 2	0 16	0 80	0 162	2 117	9 859	13 (3) 1959 (2)	
	R NR	0 177	1 62	4 73	3 210	1 483	4 466	60 433	73 (17) 1904 (3)	
	R NR	1 382	0 92	0 150	4 344	1 846	0 694	7 1606	13 (3) 4114 (7)	
	TOTAL R (%)	13 (3)	4 (1)	7 (2)	19 (4)	43 (10)	33 (8)	315 (73)	434	
	TOTAL NR (%)	5454 (9)	2137 (3)	3962 (6)	9200 (15)	14976 (24)	9580 (16)	16169 (26)	61478	
	GRAND TOTAL (%)	5467 (9)	2141 (3)	3969 (6)	9219 (15)	15019 (24)	9613 (16)	16484 (27)	61912	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	157	43	33	247	342	141	70	1033(43)
DAMAGE BY OUTSIDE FORCES	3	0	3	3	106	39	98	252(10)
CONSTRUCTION DEFECT	0	0	0	51	150	109	51	361(15)
MATERIAL FAILURE	0	0	0	27	288	76	63	454(15)
OTHER	24	3	28	59	81	72	34	301(13)
TOTAL (%)	184 (8)	46 (2)	64 (3)	387 (16)	967 (40)	437 (18)	316 (13)	2401

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	
STEEL	505	2946	752	152	25	4	6	4390 (85)
WROUGHT IRON	0	0	0	0	0	0	0	0 (0)
CAST IRON	0	0	1	5	3	0	0	9 (0)
DUCTILE IRON	0	0	0	0	0	0	0	0 (0)
COPPER	3	6	0	0	0	0	0	9 (0)
PLASTIC	77	618	65	1	0	0	0	761 (15)
OTHER	0	0	0	0	0	0	0	0 (0)
SYSTEM (%)	585 (11)	3570 (69)	818 (16)	158 (3)	28 (1)	4 (0)	6 (0)	5169

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	1	0	114	139	192	56	11	513 (20)
DAMAGE BY OUTSIDE FORCES	2	0	1	19	45	208	188	463 (18)
CONSTRUCTION DEFECT	0	0	1	13	21	72	206	313 (12)
MATERIAL FAILURE	0	0	4	40	71	268	136	519 (20)
OTHER	4	0	46	62	207	268	192	799 (31)
TOTAL (\$)	7 (0)	0 (0)	166 (6)	293 (11)	536 (21)	872 (33)	733 (28)	2607

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	NOMINAL SIZE						TOTAL	TOTAL (\$)
		OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"		
STEEL	129	1014	327	235	23	2	0	1730 (73)	
WROUGHT IRON	0	0	0	0	0	0	0	0 (0)	
CAST IRON	0	0	0	0	0	0	0	0 (0)	
DUCTILE IRON	0	0	0	0	0	0	0	0 (0)	
COPPER	0	0	0	0	0	0	0	0 (0)	
PLASTIC	4	635	13	1	0	0	0	653 (27)	
OTHER	0	1	0	0	0	0	0	1 (0)	
SYSTEM (\$)	133 (6)	1650 (69)	340 (14)	236 (10)	23 (1)	2 (0)	0 (0)	2384	

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	3053	1593	3737	6909	10809	5561	10156	41818 (43)
DAMAGE BY OUTSIDE FORCES	1420	610	934	2170	3685	3575	10074	22468 (23)
CONSTRUCTION DEFECT	837	282	361	766	1923	1497	1563	7129 (7)
MATERIAL FAILURE	1789	619	607	1103	2433	1729	1397	9677 (10)
OTHER	3840	752	1023	1794	3631	2558	2597	16195 (17)
TOTAL (%)	10939 (11)	3856 (4)	6662 (7)	12742 (13)	22381 (23)	14920 (15)	25787 (27)	97287

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	NOMINAL SIZE						TOTAL	TOTAL (%)
		OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"		
STEEL	803	55860	21346	5151	1899	354	731	704	86848 (80)
WROUGHT IRON	1	19	2	0	0	0	0	0	22 (0)
CAST IRON	4	93	1742	706	314	53	67	43	3022 (3)
DUCTILE IRON	1	1	1	0	0	0	0	0	3 (0)
COPPER	0	0	0	0	0	0	0	0	0 (0)
PLASTIC	377	15244	2644	279	11	6	0	0	18561 (17)
OTHER	4	9	44	0	0	0	0	0	57 (0)
SYSTEM (%)	1190 (1)	71226 (66)	25779 (24)	6136 (6)	2224 (2)	413 (0)	798 (1)	747 (1)	108513

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

PART H	UNKNJWN	OVER 1/2" THRU 1"				OVER 1" THRU 2"		OVER 2" THRU 4"		OVER 4" THRU 6"		OVER 6"		TOTALS (13)
		1/2" UK LESS	98	163147	23735	730	419	0	188770 (88)					
STEEL	641	98	163147	23735	730	419	0	188770 (88)						
CAST IRON	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)	
COPPER	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)	
PLASTIC	0	4182	20265	2039	39	0	0	26525 (12)						
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)	
TOTAL SYSTEM (14)	641 (0)	4280 (2)	183412 (85)	25774 (12)	769 (0)	419 (0)	0 (0)	215295						

NUMBER
 OF
 SERVICES
 IN
 SYSTEM
 AT END
 OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

PART H	UNKNOWN	1/2" OR LESS	OVER 1/2" THRU 1"	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	OVER 6"	TOTALS (\$)
STEEL	1000030	300	40636	10153	165	5	0	1051289 (99)
CAST IRON	0	0	0	0	0	0	0	0 (0)
CUPPER	0	0	0	0	0	0	0	0 (0)
PLASTIC	0	395	10723	1270	45	0	0	12433 (1)
UTHER	16	0	0	0	0	0	0	16 (0)
TOTAL SYSTEM (\$)	1000046 (94)	695 (0)	51359 (5)	11423 (1)	210 (0)	5 (0)	0 (0)	1063738

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

PART H	UNKNOWN	1/2" OR LESS	OVER 1/2"		OVER 1"		OVER 2"		OVER 4"		TOTALS (%)
			THRU 1"	THRU 1"	THRU 2"	THRU 4"	THRU 6"	OVER 6"			
STEEL	107076	5043	3453598	1583785	18876	730	71	5169179 (89)			
CAST IRON	0	0	550	4986	78	3	0	5617 (0)			
COPPER	0	174	9414	163	0	0	0	9751 (0)			
PLASTIC	583	23714	565626	27241	1036	23	0	618223 (11)			
OTHER	91	23	3846	11	1	0	0	3972 (0)			
TOTAL SYSTEM (%)	107750 (2)	28954 (0)	4033034 (69)	1616186 (28)	19991 (0)	756 (0)	71 (0)	5806742 (0)			

NUMBER
 OF
 SERVICES
 IN
 SYSTEM
 AT END
 OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

PART I	PART J	PART K
MAINS AND SERVICES INSTALLED DURING YEAR	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
37	104	7
5326	5545	652
219		3062

PART P

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	MAINS SERVICES
496	292

PART Q

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	NUMBER OF FIRES	0
		SUFFERING LOST TIME INJURIES	NUMBER OF EXPLOSIONS	0
		FATALITIES	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
		SUFFERING LOST TIME INJURIES	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 40600
		FATALITIES	OTHERS—FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 0
		INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	TOTAL ESTIMATED VALUE	\$ 40600
		FATALITIES		
		INJURIES		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES AND SERVICES INSTALLED DURING YEAR	29	9	38	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	1861	518	2379	NUMBER OF SERVICES	11 586 1377

PART P	MAINS	SERVICES
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	209	251

PART Q	FATALITIES	NUMBER OF FIRES	4
NUMBER OF EMPLOYEES OF OPERATOR	0	NUMBER OF EXPLOSIONS	0
SUFFERING LOST TIME INJURIES	5	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
FATALITIES	0	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	825914
SUFFERING LOST TIME INJURIES	0	OPERATOR	\$
FATALITIES	0	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 133
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	1	TOTAL ESTIMATED VALUE	\$ 826047
TOTALS	0		
FATALITIES	0		
INJURIES	6		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES OF MAINS INSTALLED DURING YEAR	2442	10350	12792	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	158219	21239	179458	NUMBER OF SERVICES	82456

PART P	MAINS	SERVICES
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	4966	10102

PART Q	FATALITIES	NUMBER OF FIRES
NUMBER OF EMPLOYEE(S) OF OPERATOR	0	124
SUFFERING LOST TIME INJURIES	11	16

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	FATALITIES	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	OPERATOR	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR
NUMBER OF EMPLOYEE(S) OF CONTRACTORS	0	26	\$	217199	
SUFFERING LOST TIME INJURIES	13				
FATALITIES	1				
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	21				184651

TOTALS	FATALITIES	INJURIES	TOTAL ESTIMATED VALUE
	1	45	\$ 401850

3.4.2 Transmission/Gathering Systems

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION DEFECT		YEAR BY CAUSE		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	110	.41	4	.04	0	.00	0	.00	0	.00	13	.12	62	.56
PRIOR TO 1960	985	.10	8	.01	12	.01	6	.01	6	.01	6	.01	132	.13
1960 THRU 1969	465	.01	1	.00	6	.01	9	.02	1	.00	1	.00	20	.04
1970 TO END OF REPORTING YEAR	201	.02	6	.03	3	.01	4	.02	1	.00	1	.00	18	.09
OVER ALL YEARS	1761	.09	19	.01	21	.01	19	.01	21	.01	21	.01	232	.13

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

TOTAL MILES OF MAIN	CORROSION		PER MILE		DAMAGE BY OUTSIDE FORCE		PER MILE		LEAKS REPAIRED DURING YEAR BY CAUSE		OTHER		PER MILE		TOTAL	
	NO.	MILE	NO.	MILE	NO.	MILE	NO.	MILE	NO.	MILE	NO.	MILE	NO.	MILE	NO.	MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1960	56	.07	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	4	.07
1960 THRU 1969	187	.02	1	.01	0	.00	0	.00	0	.00	1	.01	5	.03		
1970 TO END OF REPORTING YEAR	228	.00	0	.00	0	.00	0	.00	0	.00	0	.00	1	.00		
OVER ALL YEARS	471	.02	1	.00	0	.00	0	.00	0	.00	1	.00	10	.02		

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		LEAKS REPAIRED DURING YEAR BY CAUSE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	1769	.02	4	.00	0	.00	3	.00	6	.00	48	.03
PRIOR TO 1960	52246	.04	75	.00	66	.00	1133	.02	391	.01	3752	.07
1960 THRU 1969	27037	.01	23	.00	23	.00	64	.00	53	.00	377	.01
1970 TO END OF REPORTING YEAR	13723	.01	30	.00	41	.00	50	.00	28	.00	232	.02
OVER ALL YEARS	94775	.03	132	.00	130	.00	1250	.01	478	.01	4409	.05

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

PART B	DESCRIPTION OF PIPE IN SYSTEM AT END OF YEAR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
	MILES OF PIPE BY CONSTRUCTION DATE	110	93	77	255	560	465	201	1761
	GATHERING	51	9	4	36	43	120	186	449
	MILES OF COATED PIPE BY COATING DATE	0	0	0	14	449	464	202	1129
	GATHERING	0	0	0	0	7	112	177	296
PART C	MILES OF COATED PIPE BY PROTECTION DATE	0	0	0	11	343	424	307	1085
	GATHERING	0	0	0	0	5	87	162	254
	MILES OF BARE PIPE BY PROTECTION DATE	0	0	0	0	38	62	279	399
	GATHERING	0	0	0	0	5	2	10	17
	PART C TOTAL	(0)	(0)	(0)	(1)	(26)	(34)	(39)	1484
	(2)	(0)	(0)	(0)	(0)	(4)	(33)	(63)	271

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

PART B	DESCRIPTION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUCTION DATE	TRANSMISSION	GATHERING	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
	TRANS-MISSION	0	0	0	0	0	0	0	56	187	228	471
	GATHERING	0	0	0	1	3	5	22	97	128		128
	TRANS-MISSION	0	0	0	0	0	44	187	228	459		459
	GATHERING	0	0	0	0	0	12	20	94	126		126
PART C												
	TRANS-MISSION	0	0	0	0	0	12	137	322	471		471
	GATHERING	0	0	0	0	0	15	99	114			114
	TRANS-MISSION	0	0	0	0	0	0	0	0	0	0	0
	GATHERING	0	0	0	0	0	0	0	0	0	8	8
	TRANS-MISSION	(0)	(0)	(0)	(0)	(0)	12	137	322	471		471
	GATHERING	(0)	(0)	(0)	(0)	(0)	(3)	(29)	(68)			(68)
	PART C TOTAL (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0	15	107	122
									(0)	(12)	(88)	(88)

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

PART B	DESCRIPTION OF PIPE IN SYSTEM AT END OF YEAR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
	MILES OF PIPE BY CONSTRUCTION DATE	1769	4486	3971	10705	33084	27037	13723	94775
	GATHERING	33	28	144	309	511	852	1760	3637
	MILES OF COATED PIPE BY COATING DATE	733	1854	2632	9511	33589	26918	13341	88578
	GATHERING	68	2	67	276	436	794	1587	3230
PART C	MILES OF COATED PIPE BY PROTECTION DATE	13	182	826	4911	34167	30372	16879	87350
	GATHERING	0	38	0	264	332	603	1548	2785
	MILES OF BARE PIPE BY PROTECTION DATE	0	0	8	275	1138	254	758	2433
	GATHERING	0	0	11	6	5	34	183	239
	TRANSMISSION	13	182	834	5186	35305	30626	17637	89783
	GATHERING	(0)	(0)	(1)	(6)	(39)	(34)	(20)	
	PART C TOTAL (%)	0	38	11	270	337	637	1731	3024
		(0)	(1)	(0)	(9)	(11)	(21)	(57)	

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100-2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	R 0	0	0	0	4	0	0	4 (80)
	NR 36	10	25	27	26	6	3	133 (72)
TRANSMISSION- GIRTH WELD	R 0	0	0	0	0	0	0	0 (0)
SYSTEM LEAKS	NR 0	1	6	1	3	1	2	14 (8)
REPAIRED LONGITUDINAL WELD DURING YEAR	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER WELDS (BY YEAR INSTALLED)	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	1	1 (1)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
	NR 1	0	4	0	9	2	0	16 (9)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	2	1	0	1	0	4 (2)
FITTING	R 0	0	0	0	1	0	0	1 (20)
	NR 3	1	3	0	3	2	3	15 (8)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	1	2	0	0	3 (2)
TOTALS (%)	R 0	0	0	0	5	0	0	5
	NR (0)	(0)	(0)	(0)	(100)	(0)	(0)	
	40	2	40	30	43	12	9	186
	(22)	(6)	(22)	(16)	(23)	(6)	(5)	
GRAND TOTAL (%)	40	12	40	30	48	12	9	191
	(21)	(6)	(21)	(16)	(25)	(6)	(5)	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)								
BODY OF PIPE	R 7 NR 24	10 974	6 266	13 252	16 920	22 116	14 31	88 (61) 2583 (73)
GIRTH WELD	R 0 NR 0	1 10	0 13	3 16	1 21	1 9	4 5	10 (7) 74 (2)
LONGITUDINAL WELD	R 0 NR 0	2 1	1 1	1 29	3 14	1 7	5 1	13 (9) 53 (1)
OTHER WELDS	R 0 NR 0	0 1	0 0	0 3	0 4	0 8	2 0	2 (1) 16 (0)
COMPRESSOR	R 0 NR 0	0 0	0 0	1 0	0 1	0 1	1 0	2 (1) 2 (0)
VALVE	R 0 NR 0	0 36	1 53	0 40	1 55	1 32	2 19	5 (3) 235 (7)
SCRAPER TRAP	R 0 NR 0	0 1	0 0	0 0	0 0	0 2	0 1	0 (0) 4 (0)
TAP CONNECTION	R 3 NR 0	4 14	2 9	0 1	2 12	1 10	1 5	13 (9) 51 (1)
FITTING	R 2 NR 3	2 58	0 28	1 7	0 18	1 10	0 4	6 (4) 128 (4)
GAS COOLER	R 0 NR 0	0 0	0 0	0 0	0 4	0 0	0 0	0 (0) 4 (0)
OTHER	R 0 NR 5	2 234	0 24	2 7	1 100	0 30	1 9	6 (4) 409 (11)
TOTALS (%)	R 12 NR 32	21 355	10 394	21 355	24 1149	27 225	30 75	145 3559
GRAND TOTAL (%)	R 44 NR 11	1584 36	404 111	376 10	1173 32	252 7	105 3	3704

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	0	0	2	7	0	0	0	0 (0)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	10	0	0	0	0	0	4	23 (56)
GIRTH WELD	0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	0	0	0	0	0	0	0	4 (10)
OTHER WELDS	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
VALVE	4	0	0	0	0	0	0	4 (10)
SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
FITTING	6	0	0	0	0	0	1	7 (17)
GAS COOLER	0	0	0	0	0	0	0	0 (0)
OTHER	2	0	0	0	0	0	1	3 (7)
TOTALS (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
	(54)	(0)	(5)	(27)	(0)	(0)	(15)	41
GRAND TOTAL (%)	22	0	2	11	0	0	6	41
	(54)	(0)	(5)	(27)	(0)	(0)	(15)	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 151.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	1	1 (50)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	0	0	0	0	0	0	0	0 (0)
GIRTH WELD	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
VALVE	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
FITTING	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
GAS COOLER	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
NR	0	0	0	0	0	0	1	2
	(0)	(0)	(0)	(0)	(0)	(50)	(50)	
GRAND TOTAL (%)	0	0	0	0	0	1	1	2
	(0)	(0)	(0)	(0)	(0)	(50)	(50)	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	R 1	0	0	1	9	25	4	40 (83)
	NR 1	11	4	0	28	78	44	174 (77)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R 0	0	0	0	0	1	1	2 (4)
	NR 0	0	0	1	1	0	13	15 (7)
LONGITUDINAL WELD	R 0	0	0	1	0	0	0	1 (2)
	NR 0	0	0	1	0	0	0	1 (0)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	1	1 (0)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	1	2	3 (1)
VALVE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	2	0	0	4	0	2	16 (7)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
FITTING	R 0	0	0	0	0	2	3	5 (10)
	NR 0	0	0	0	2	2	0	4 (2)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	1	3	0	4 (2)
OTHER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	1	0	5	2	8 (4)
TOTALS (%)	R 1	0	0	2	9	28	0	40
	NR 2	(0)	(0)	(4)	(19)	(98)	(17)	
	R 1	13	4	11	36	97	64	226
	NR 0	(6)	(2)	(5)	(16)	(43)	(20)	
GRAND TOTAL (%)	R 2	13	4	13	45	125	72	274
	NR 1	(5)	(1)	(5)	(16)	(46)	(26)	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	FRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
CORROSION	45	100	3	0	0	4	152 (66)
DAMAGE BY OUTSIDE FORCE	4	8	0	1	0	6	19 (8)
CONSTRUCTION DEFECT	0	12	1	4	1	3	21 (9)
MATERIAL FAILURE	0	6	5	4	0	4	19 (8)
OTHER	13	6	0	1	0	1	21 (9)
TOTAL (%)	62 (27)	132 (57)	9 (4)	10 (4)	1 (0)	18 (8)	232

PART G

BY MATERIAL
 BY NOMINAL SIZE

	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL
TRANSMISSION GATHERING	1709 (100)	0 (0)	0 (0)	1709
	440 (98)	9 (2)	0 (0)	449
1" OR LESS	0	1 (0)	0	0
OVER 1" THRU 2"	74 (144)	11 (7)	0	0
OVER 2" THRU 4"	433 (646)	0 (29)	0	0
OVER 4" THRU 6"	723 (809)	0 (37)	0	0
6"	317 (379)	0 (17)	4 (0)	0
10"	135 (138)	0 (6)	0	0
12"	59 (69)	0 (3)	0	0
14"	0	0	0	0
16"	0	0	0	0
18"	0	0	0	0
20"	0	0	0	0
22"	0	0	0	0
24"	0	0	0	0
26"	0	0	0	0
28"	0	0	0	0
30"	0	0	0	0
32"	0	0	0	0
34"	0	0	0	0
36"	0	0	0	0
38"	0	0	0	0
40"	0	0	0	0
42"	0	0	0	0
ABOVE 42"	0	0	0	0
TOTAL (%)	1762 (80)	449 (20)	232 (10)	2243

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	FRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
DAMAGE BY OUTSIDE FORCE	0	4	0	3	0	1	0 (80)
CONSTRUCTION DEFECT	0	0	0	0	1	0	1 (10)
MATERIAL FAILURE	0	0	0	0	0	0	0 (0)
OTHER	0	0	0	1	0	0	1 (10)
TOTAL (%)	0 (0)	4 (40)	0 (0)	4 (40)	1 (10)	1 (10)	10

PART G

BY MATERIAL

	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL
TRANSMISSION	471 (100)	0 (0)	0 (0)	471
GATHERING	128 (100)	0 (0)	0 (0)	128

BY NOMINAL SIZE

	TRANSMISSION MISSION	GATHERING MISSION	SYSTEM TOTAL (%)	TRANSMISSION MISSION	GATHERING MISSION	SYSTEM TOTAL (%)
1" OR LESS	0	0	0 (0)	3	0	0 (0)
OVER 1" THRU 2"	0	3	3 (0)	1	0	0 (0)
OVER 2" THRU 4"	69	115	184 (30)	1	0	0 (0)
OVER 4" THRU 6"	75	9	84 (14)	0	0	0 (0)
8"	207	2	209 (34)	2	0	0 (0)
10"	0	1	1 (0)	0	0	0 (0)
15"	120	2	122 (20)	0	0	0 (0)
14"	0	0	0 (0)	1	140	140 (23)

MILES OF PIPE IN SYSTEM AT END OF YEAR

TOTAL (%)

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

PART F
 TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	FRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
DAMAGE BY OUTSIDE FORCE	35	2087	144	36	34	83	2419 (55)
CONSTRUCTION DEFECT	4	75	8	9	6	30	132 (3)
MATERIAL FAILURE:	0	66	6	11	6	41	130 (3)
CORROSION	3	1133	50	10	4	50	1250 (28)
OTHER	6	391	12	29	12	28	478 (11)
TOTAL (%)	48 (1)	3752 (85)	220 (5)	95 (2)	62 (1)	232 (5)	4409

PART G

BY MATERIAL

STEEL (%)

PLASTIC (%)

OTHER (%)

SYSTEM TOTAL

TRANSMISSION GATHERING	9498 (100)	104 (0)	12 (0)	94614
	3999 (98)	69 (2)	5 (0)	3673

BY NOMINAL SIZE

TRANSMISSION GATHERING SYSTEM TOTAL (%)

TRANSMISSION GATHERING SYSTEM TOTAL (%)

1" OR LESS	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	ABOVE 42"	TOTAL (%)
40	16	300	1639	691	491	192	182	32	145	494	8397	0	0	0	0	94222 (96)
56 (0)	1344 (1)	7839 (8)	8355 (9)	8064 (8)	5286 (5)	6696 (7)	19740	13	5887 (6)	1711 (2)	7358 (8)	333 (0)	9144 (9)	4635 (5)	0	19753 (20)
1044	1639	691	491	192	182	32	145	494	8397	0	0	0	0	0	0	94222 (96)

MILES OF PIPE IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARKANSAS

PART H		PART I			PART J	
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN- SION	REPLACE- MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
		13	4		0	
		40	0		3	
		53	4		3	1756

PART M	NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR
TRANSMISSION	63
GATHERING	0

PART N	NUMBER OF FIRES	NUMBER OF EXPLOSIONS
FATALITIES	0	0
SUFFERING LOST TIME INJURIES	0	0

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEE(S) OF OPERATOR	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	OPERATOR	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR
	0	0		\$ 32300	\$ 0

TOTALS	FATALITIES	INJURIES	TOTAL ESTIMATED VALUE
	0	0	\$ 32300

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEW MEXICO

PART H	PART I	PART J
MILES INSTALLED DURING YEAR TRANSMISSION GATHERING TOTAL	MILES RETIRED DURING YEAR REPLACEMENT 0 0 0 8 0 0 8 0 0	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED TRANSMISSION GATHERING TOTAL 0 1 1 0 1 1 0 1 1

PART M	PART I	PART J
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR TRANSMISSION GATHERING	TRANSMISSION GATHERING 0 0	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED TRANSMISSION GATHERING TOTAL 0 0 0 0 0 0

PART N	PART I	PART J
NUMBER OF EMPLOYEES (S) OF OPERATOR NUMBER OF EMPLOYEES (S) OF CONTRACTORS NUMBER OF NON-EMPLOYEES (S)	NUMBER OF FIRES NUMBER OF EXPLOSIONS NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO: OPERATOR OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED TRANSMISSION GATHERING TOTAL 0 0 0 0 0 0 \$ \$ \$ \$ \$ \$

PART O	PART I	PART J
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR FATALITIES SUFFERING LOST TIME INJURIES FATALITIES SUFFERING LOST TIME INJURIES FATALITIES INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	NUMBER OF EMPLOYEES (S) OF OPERATOR NUMBER OF EMPLOYEES (S) OF CONTRACTORS NUMBER OF NON-EMPLOYEES (S)	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED TRANSMISSION GATHERING TOTAL 0 0 0 0 0 0 \$ \$ \$ \$

PART P	PART I	PART J
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR FATALITIES SUFFERING LOST TIME INJURIES FATALITIES INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	NUMBER OF EMPLOYEES (S) OF OPERATOR NUMBER OF EMPLOYEES (S) OF CONTRACTORS NUMBER OF NON-EMPLOYEES (S)	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED TRANSMISSION GATHERING TOTAL 0 0 0 0 0 0 \$ \$ \$ \$

PART Q	PART I	PART J
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR FATALITIES SUFFERING LOST TIME INJURIES FATALITIES INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	NUMBER OF EMPLOYEES (S) OF OPERATOR NUMBER OF EMPLOYEES (S) OF CONTRACTORS NUMBER OF NON-EMPLOYEES (S)	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED TRANSMISSION GATHERING TOTAL 0 0 0 0 0 0 \$ \$ \$ \$

PART R	PART I	PART J
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR FATALITIES SUFFERING LOST TIME INJURIES FATALITIES INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	NUMBER OF EMPLOYEES (S) OF OPERATOR NUMBER OF EMPLOYEES (S) OF CONTRACTORS NUMBER OF NON-EMPLOYEES (S)	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED TRANSMISSION GATHERING TOTAL 0 0 0 0 0 0 \$ \$ \$ \$

PART S	PART I	PART J
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR FATALITIES SUFFERING LOST TIME INJURIES FATALITIES INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	NUMBER OF EMPLOYEES (S) OF OPERATOR NUMBER OF EMPLOYEES (S) OF CONTRACTORS NUMBER OF NON-EMPLOYEES (S)	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED TRANSMISSION GATHERING TOTAL 0 0 0 0 0 0 \$ \$ \$ \$

PART T	PART I	PART J
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR FATALITIES SUFFERING LOST TIME INJURIES FATALITIES INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	NUMBER OF EMPLOYEES (S) OF OPERATOR NUMBER OF EMPLOYEES (S) OF CONTRACTORS NUMBER OF NON-EMPLOYEES (S)	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED TRANSMISSION GATHERING TOTAL 0 0 0 0 0 0 \$ \$ \$ \$

PART U	PART I	PART J
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR FATALITIES SUFFERING LOST TIME INJURIES FATALITIES INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	NUMBER OF EMPLOYEES (S) OF OPERATOR NUMBER OF EMPLOYEES (S) OF CONTRACTORS NUMBER OF NON-EMPLOYEES (S)	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED TRANSMISSION GATHERING TOTAL 0 0 0 0 0 0 \$ \$ \$ \$

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR TEXAS

PART H		PART I		PART J		
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN-SION	REPLACE-MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
		1322	73	418		
		396	8	48		
		1718	81	466		92752

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

TRANSMISSION	149
GATHERING	22

PART N

NUMBER OF EMPLOYEE(S) OF OPERATOR	0	NUMBER OF FIRES	15
SUFFERING LOST TIME INJURIES	5	NUMBER OF EXPLOSIONS	7

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	11
NUMBER OF CONTRACTORS	0	ESTIMATED OPERATOR	\$ 5632356
NUMBER OF NON-EMPLOYEE(S)	6	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 155938

TOTALS	6	TOTAL ESTIMATED VALUE	\$ 5788294
FATALITIES	6		
INJURIES	55		

3.5 WESTERN REGION (REGION V)

3.5.1 Distribution Systems

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALASKA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1930	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1930 THRU 1939	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1940 THRU 1949	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1950 THRU 1959	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1960 THRU 1969	338	.33	88	.26	8	.02	19	.06	5	.01	238	.68	238	.68
1970 TO END OF REPORTING YEAR	487	.68	595	1.14	43	.09	139	.29	75	.15	1142	2.34	1142	2.34
OVER ALL YEARS	825	.53	643	.78	51	.06	158	.19	80	.10	1372	1.66	1372	1.66

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CALIFORNIA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	3152	.11	346	.11	63	.02	18	.01	681	.22	1460	.46
PRIOR TO 1930	6025	.92	200	.03	183	.03	1212	.20	1993	.33	9154	1.52
1930 THRU 1939	4065	.73	161	.04	145	.04	111	.03	922	.23	4292	1.06
1940 THRU 1949	7740	.85	548	.07	420	.05	219	.03	2062	.27	9837	1.27
1950 THRU 1959	16553	.43	672	.04	743	.04	360	.02	2925	.18	11758	.71
1960 THRU 1969	15853	.36	653	.04	855	.05	467	.03	1793	.11	9308	.59
1970 TO END OF REPORTING YEAR	15494	.05	6836	.44	1173	.08	986	.06	2061	.13	11758	.76
OVER ALL YEARS	68882	.42	9416	.14	3582	.05	3373	.05	12327	.16	57587	.84

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1*1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR HAWAII

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NC.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	44	.02	0	.00	0	.00	0	.00	0	.00	0	.00	1	.02
PRIOR TO 1930	90	1.82	17	.19	2	.02	0	.00	0	.00	0	.00	183	2.03
1930 THRU 1939	62	1.68	14	.23	0	.00	0	.00	0	.00	0	.00	110	1.90
1940 THRU 1949	50	3.06	21	.42	1	.02	3	.06	0	.00	0	.00	170	3.56
1950 THRU 1959	85	2.59	24	.28	4	.05	0	.00	0	.00	0	.00	256	3.01
1960 THRU 1969	141	.78	33	.23	4	.03	6	.04	0	.00	0	.00	153	1.09
1970 TO END OF REPORTING YEAR	98	.07	30	.31	6	.06	0	.00	0	.00	0	.00	43	.44
OVER ALL YEARS	570	1.33	139	.24	17	.03	17	.03	17	.03	0	.00	932	1.64

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MONTANA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING YEAR BY CAUSE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	51	.94	5	.10	2	.04	10	.20	39	.76	104	2.04	29	1.93
PRIOR TO 1930	15	1.27	2	.13	1	.07	1	.07	6	.40	29	1.93	6	.40
1930 THRU 1939	341	.40	23	.07	13	.04	10	.03	0	.02	09	.26	09	.26
1940 THRU 1949	95	.16	25	.26	10	.11	17	.18	5	.05	72	.76	72	.76
1950 THRU 1959	530	.03	21	.04	17	.03	12	.02	10	.03	02	.15	02	.15
1960 THRU 1969	545	.07	43	.08	10	.02	7	.01	10	.02	107	.80	107	.80
1970 TO END OF REPORTING YEAR	520	.23	222	.43	25	.05	10	.03	120	.25	509	.98	509	.98
OVER ALL YEARS	2097	.14	341	.16	70	.04	73	.03	214	.10	992	.47	992	.47

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.101)
 FOR CALENDAR YEAR 1978

SUMMARY FOR SOUTH DAKOTA

YEAR UNKNOWN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
73	71	.97	5	.07	0	.00	1	.01	12	.16	89	1.22
0	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
0	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
0	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
326	3	.01	5	.02	5	.02	4	.01	9	.03	26	.08
374	3	.01	27	.07	8	.02	4	.01	3	.01	45	.12
338	2	.01	65	.19	8	.02	97	.29	2	.01	174	.51
1111	79	.07	102	.09	21	.02	106	.10	26	.02	334	.30

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WASHINGTON

TOTAL MILES OF MAIN	CORROSION		PER MILE		DAMAGE BY OUTSIDE FORCE		PER MILE		LEAKS REPAIRED DURING YEAR BY CAUSE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	MATERIAL FAILURE	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	208	1.30	433	2.00	45	.22	141	.68	192	.92	1143	5.90		
PRIOR TO 1930	661	.19	117	.18	3	.00	156	.24	63	.10	465	.70		
1930 THRU 1939	187	.14	10	.05	1	.01	3	.02	5	.03	45	.24		
1940 THRU 1949	106	.13	3	.03	1	.01	6	.06	8	.08	32	.30		
1950 THRU 1959	1607	.05	32	.02	14	.01	21	.01	36	.02	185	.12		
1960 THRU 1969	5192	.02	106	.02	34	.01	39	.01	65	.01	335	.06		
1970 TO END OF REPORTING YEAR	2201	.01	229	.10	29	.01	59	.03	53	.02	395	.18		
OVER ALL YEARS	10162	.07	930	.09	127	.01	425	.04	422	.04	2600	.26		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-01)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 5

TOTAL MILES OF MAIN	CORROSION		PER MILE		DAMAGE BY OUTSIDE FORCE		PER MILE		LEAKS REPAIRED DURING YEAR BY CAUSE		OTHER		TOTAL		PER MILE	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	4458	.35	1572	.26	1160	.05	202	.09	385	.09	1591	.36	4910	1.10		
PRIOR TO 1930	8597	.74	6386	.06	482	.03	229	.17	1457	.17	2265	.26	10019	1.26		
1930 THRU 1939	5964	.62	3688	.05	309	.03	196	.04	218	.04	1286	.20	5617	.94		
1940 THRU 1949	10643	.76	8141	.08	884	.05	538	.05	558	.05	2641	.25	12762	1.20		
1950 THRU 1959	28307	.52	9023	.06	1654	.04	1271	.05	1455	.05	4683	.16	18026	.64		
1960 THRU 1969	39916	.17	6788	.06	2555	.06	2205	.05	2105	.05	4716	.12	18369	.46		
1970 TO END OF REPORTING YEAR	33824	.06	2096	.41	13917	.08	2846	.09	3115	.09	7139	.21	29113	.66		
OVER ALL YEARS	131709	.29	37694	.16	20961	.06	7487	.07	9293	.07	24181	.18	99616	.76		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR COLORADO

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	MILES OF MAINS	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
	20	529	317	688	2754	4112	4629	13049	
	2054	23852	16989	45570	181305	187651	245399	702820	
COATED PIPE BY COATING DATE	0	145	124	390	2440	3725	2853	9677	
	0	2894	4311	25733	151637	164984	160217	509776	
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	0	0	0	0	1057	3543	4361	8961	
	0	0	0	0	67168	142075	237418	446661	
PAKE PIPE BY PROTECTION DATE	0	0	0	0	0	0	133	133	
	0	0	0	0	0	0	3812	3812	
PART C TOTAL (%)	0	0	0	0	1057	3543	4494	9094	
	(0)	(0)	(0)	(0)	(12)	(39)	(49)		
	0	0	0	0	67168	142075	241230	450473	
	(0)	(0)	(0)	(0)	(15)	(32)	(54)		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR IDAHO

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	1	0	0	0	738	1199	755	2693
COATED PIPE BY COATING DATE	135	0	0	0	22084	46098	36546	104863
COATED PIPE BY COATING DATE	1	0	0	0	738	1165	376	2280
COATED PIPE BY COATING DATE	135	0	0	0	22084	46032	21168	89419
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	0	0	0	0	738	1165	376	2279
COATED PIPE BY PROTECTION DATE	0	0	0	0	22084	46032	21168	89284
BARE PIPE BY PROTECTION DATE	0	0	0	0	0	0	0	0
BARE PIPE BY PROTECTION DATE	0	0	0	0	0	0	0	0
TOTAL MILES	(0)	(0)	(0)	(0)	738 (32)	1165 (51)	376 (16)	2279
TOTAL SERVICES	(0)	(0)	(0)	(0)	22084 (25)	46032 (52)	21168 (24)	89284

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEVADA

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	553	0	28	23	675	1773	1425	4477
COATED PIPE BY COATING DATE	19580	0	2747	2269	13816	65561	109219	213192
	536	0	0	7	558	652	426	2179
	14433	0	0	0	4951	14902	24688	58974
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	0	0	0	7	490	448	1106	2051
	6605	0	0	0	1115	3241	49091	60052
BARE PIPE BY PROTECTION DATE	0	0	0	0	13	0	1	14
	0	0	0	7	503	448	1107	2065
	(0)	(0)	(0)	(0)	(24)	(22)	(54)	
PART C TOTAL (3)	6605	0	0	0	1115	3241	49143	60104
	(11)	(0)	(0)	(0)	(2)	(5)	(82)	

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR OREGON

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	0	823	142	115	613	3077	1759	6529
COATED PIPE BY COATING DATE	0	32566	5018	4007	23420	120283	95417	280711
CATHODI- CALLY PRO- TECTED SYSTEMS	120	0	0	0	250	2769	1759	4778
BARE PIPE BY PROTECTION DATE	0	0	0	0	303	45720	95417	141560
TOTAL	0	0	0	0	242	2769	1759	4770
TOTAL	0	0	0	0	303	45700	95399	141402
TOTAL	0	0	0	0	128	19	11	158
TOTAL	0	0	0	0	0	4584	9506	14090
TOTAL	0	0	0	0	370	2788	1770	4928
TOTAL	0	0	0	0	0	50284	104905	155492

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR UTAH

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	TOTAL PIPE BY CONSTRUCTION DATE	MILES OF MAINS	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
			0	242	399	480	1076	1508	2057	5762
			0	14869	11086	35501	71709	58837	129996	321998
			0	0	275	469	1076	1506	445	3771
			0	0	8316	35501	71706	58835	16010	190368
			0	0	0	0	106	558	1157	1821
			0	0	0	0	4689	18754	51249	74692
			0	0	0	0	0	0	1	1
			0	0	0	0	0	0	0	0
			0	0	0	0	106	558	1158	1822
			0	0	0	0	6	31	64	1822
			0	0	0	0	4689	18754	51249	74692
			0	0	0	0	6	25	69	74692

PART C
 CATHODI-
 CALLY
 PRO-
 TECTED
 SYSTEMS

TOTAL
 MILES
 PART C
 TOTAL
 (%)

TOTAL
 MILES
 TOTAL
 SERVICES

BAKE PIPE BY
 PROTECTION
 DATE

MILES
 OF MAINS
 NUMBER
 SERVICES

MILES
 OF MAINS
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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WYOMING

PART B DESC. OF PIPE IN SYSTEM AT END OF YEAR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS
TOTAL PIPE BY CONSTRUCTION DATE	27	32	71	79	215	277	303	1004
COATED PIPE BY COATING DATE	1705	1602	3169	4274	10263	9741	13326	44080
COATED PIPE BY COATING DATE	0	0	38	52	208	168	142	608
COATED PIPE BY COATING DATE	1352	21	2287	2477	9670	8188	8971	32966
PART C CATHODI- CALLY PRO- TECTED SYSTEMS	0	0	0	0	0	270	282	552
COATED PIPE BY PROTECTION DATE	0	0	0	0	605	13131	13513	27249
BARE PIPE BY PROTECTION DATE	0	0	0	0	0	0	30	30
BARE PIPE BY PROTECTION DATE	0	0	0	0	0	0	465	465
TOTAL MILES	0	0	0	0	0	270	312	582
TOTAL SERVICES	(0)	(0)	(0)	(0)	(0)	(46)	(54)	(108)
PART C TOTAL (*)	0	0	0	0	605	13131	13978	27714
PART C TOTAL (*)	(0)	(0)	(0)	(0)	(2)	(47)	(50)	(99)

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALASKA

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)	
									R
PIPE	0	0	0	0	0	30	170	200 (48)	
	0	0	0	0	0	15	114	129 (78)	
VALVE	0	0	0	0	0	10	57	67 (16)	
	0	0	0	0	0	0	1	1 (1)	
FITTING	0	0	0	0	0	10	136	146 (39)	
	0	0	0	0	0	6	16	22 (13)	
DRIP	0	0	0	0	0	0	0	0 (0)	
	0	0	0	0	0	0	0	0 (0)	
REGULATOR	0	0	0	0	0	0	0	0 (0)	
	0	0	0	0	0	0	8	8 (2)	
MAINS REPAIRED DURING YEAR (BY YEAR INSTALLED)	0	0	0	0	0	0	5	5 (1)	
TAP CONNECTION	0	0	0	0	0	3	3	6 (4)	
OTHER	0	0	0	0	0	0	0	0 (0)	
	0	0	0	0	0	0	0	0 (0)	
TOTAL R (%)	(0)	(0)	(0)	(0)	(0)	50 (12)	368 (88)	418	
TOTAL NR (%)	(0)	(0)	(0)	(0)	(0)	24 (14)	142 (86)	166	
GRAND TOTAL (%)	(0)	(0)	(0)	(0)	(0)	74 (13)	510 (87)	584	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CALIFORNIA

PART D	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU			1940 THRU			1950 THRU			1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
					1930	1931	1939	1940	1941	1949	1950	1951	1959			
			1	4	5	19	13	14	65							
	192		192	4507	1820	3303	3299	2711	1833							121 (52)
			0	0	1	0	4	0	56							61 (26)
	30	VALVE	30	558	241	284	618	224	271							2226 (9)
			1	6	1	1	0	1	28							38 (16)
	51	FITTING	51	1664	271	546	497	282	280							3591 (14)
			0	1	0	0	0	0	0							1 (0)
	2	DRIP	2	13	4	1	5	2	6							33 (0)
			0	0	0	0	1	1	1							3 (1)
	1	REGULATOR	1	2	2	2	8	4	18							37 (0)
			0	1	1	1	1	1	1							6 (3)
	7	TAP CONNECTION	7	97	36	82	63	49	64							398 (2)
			0	0	0	0	1	0	1							2 (1)
	30	OTHER	30	499	99	224	170	148	77							1247 (5)
			2	12	8	21	20	17	152							232
	(1)	TOTAL R (\$)	(1)	(5)	(3)	(9)	(9)	(7)	(66)							
			313	7340	2473	4442	4660	3420	2549							25197
	(1)	TOTAL NR (\$)	(1)	(29)	(10)	(18)	(18)	(14)	(10)							
			315	7352	2481	4463	4680	3437	2701							25429
	(1)	GRAND TOTAL (\$)	(1)	(29)	(10)	(18)	(18)	(14)	(11)							

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-i)
 FOR CALENDAR YEAR 1978

SUMMARY FOR HAWAII

PART D	PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
			0	0	0	0	0	0	0	0
			0	92	43	50	42	13	2	242 (84)
	VALVE	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	FITTING	R	0	0	0	0	0	0	0	0 (0)
		NR	0	16	6	5	6	7	2	42 (16)
	DRIP	R	0	0	0	0	0	0	0	0 (0)
		NR	0	1	0	2	0	0	0	3 (1)
	REGULATOR	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	TAP	R	0	0	0	0	0	0	0	0 (0)
	CONNECTION	NR	0	0	0	0	0	0	0	0 (0)
	OTHER	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	TOTAL R (%)		(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
	TOTAL NR (%)		(0)	109 (38)	49 (17)	57 (20)	48 (17)	20 (7)	4 (1)	287
	GRAND TOTAL (%)		(0)	109 (38)	49 (17)	57 (20)	48 (17)	20 (7)	4 (1)	287

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MONTANA

PART D	PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)			
											0	13	0
VALVE		R	0	0	1	0	0	0	0	1 (14)			
		NR	0	0	2	1	0	0	2	6 (2)			
FITTING		R	0	0	0	0	0	0	0	0 (0)			
		NR	2	4	5	3	3	10	1	28 (11)			
DRIP		R	0	0	0	0	0	0	0	0 (0)			
		NR	0	0	0	0	0	0	0	0 (0)			
REGULATOR		R	0	0	0	0	0	0	0	0 (0)			
		NR	0	0	0	0	0	0	0	0 (3)			
TAP CONNECTION		R	0	0	0	0	0	0	0	0 (0)			
		NR	1	0	0	0	0	0	8	10 (4)			
OTHER		R	0	0	0	0	0	0	0	0 (0)			
		NR	0	0	0	0	0	0	2	2 (1)			
TOTAL R (\$)			(0)	(0)	(14)	(0)	(0)	(0)	6	7			
TOTAL NR (\$)			16	20	30	10	12	38	137	263			
GRAND TOTAL (\$)			(6)	(8)	(11)	(4)	(5)	(14)	(52)	270			
			16	20	31	10	12	38	143				
			(6)	(7)	(11)	(4)	(4)	(14)	(53)				

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NORTH DAKOTA

PART D	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)	
											0
VALVE	R NR	0 0	0 0	0 0	0 0	0 2	0 0	0 0	0 2	0 (0)	4 (2)
FITTING	R NR	0 0	0 2	0 3	0 0	0 2	0 5	0 4	0 0	0 (0)	16 (8)
DRIP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0)	0 (0)
REGULATOR	R NR	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 (0)	1 (1)
TAP CONNECTION	R NR	0 0	0 1	0 2	0 0	0 0	0 1	0 1	0 0	0 (0)	5 (3)
OTHER	R NR	0 0	0 1	0 0	0 0	0 1	0 2	0 0	0 0	0 (0)	4 (2)
TOTAL R (%)		0 (0)	0 (0)	0 (0)	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)	0	1
TOTAL NR (%)		6 (3)	7 (4)	29 (15)	29 (15)	29 (15)	46 (24)	13 (7)	64 (33)	194	
GRAND TOTAL (%)		6 (3)	7 (4)	29 (15)	29 (15)	30 (15)	46 (24)	13 (7)	64 (33)	195	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR SOUTH DAKOTA

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
PIPE	R 0 NR 39	0 0	0 0	0 0	0 0	0 5	0 16	0 (0) 73 (78)
VALVE	R 0 NR 2	0 0	0 0	0 0	0 0	0 1	0 0	0 (0) 6 (6)
FITTING	R 0 NR 5	0 0	0 0	0 0	0 0	0 0	1 6	1 (100) 12 (13)
DRIP	R 0 NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
REGULATOR	R 0 NR 0	0 0	0 0	0 0	0 0	0 1	0 0	0 (0) 1 (1)
TAP CONNECTION	R 0 NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER	R 0 NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 1 (1)
TOTAL R (%)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)	1
TOTAL NR (%)	46 (49)	0 (0)	0 (0)	0 (0)	0 (0)	7 (8)	22 (24)	93
GRAND TOTAL (%)	46 (49)	0 (0)	0 (0)	0 (0)	0 (0)	7 (7)	23 (24)	94

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WASHINGTON

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (9)
PIPE	R NR 221	0 120	0 19	0 16	0 73	0 83	1 87	0 619 (43)
VALVE	R NR 38	0 4	0 2	0 0	0 23	0 14	0 24	0 105 (7)
FITTING	R NR 66	0 36	0 8	0 5	0 18	0 14	1 27	1 174 (12)
DRIP	R NR 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 (0)
REGULATOR	R NR 1	0 1	0 0	0 0	0 0	0 3	0 1	0 6 (0)
TAP CONNECTION	R NR 9	0 8	0 1	0 1	0 5	0 3	0 5	0 32 (2)
OTHER	R NR 178	0 281	0 12	0 5	0 8	0 13	0 16	0 513 (35)
TOTAL R (%)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (0)	0 2
TOTAL NR (%)	513 (35)	450 (31)	42 (3)	27 (2)	127 (9)	160 (11)	130 (9)	1449
GRAND TOTAL (%)	513 (35)	450 (31)	42 (3)	27 (2)	127 (9)	162 (11)	130 (9)	1451

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH,
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 5

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
PIPE	R NR 3 786	4 5147	5 2287	171 3927	23 4130	79 3452	278 4432	563 (59) 24161 (70)
VALVE	R NR 0 182	0 564	2 262	30 324	4 717	14 331	115 442	165 (17) 2822 (9)
FITTING	R NR 2 156	6 1799	1 353	2 641	0 646	12 511	178 497	201 (21) 4603 (13)
DRIP	R NR 0 2	1 15	0 5	0 4	0 6	0 10	0 11	1 (0) 83 (0)
REGULATOR	R NR 0 4	0 3	0 4	0 3	1 15	1 18	1 46	3 (0) 93 (1)
TAP CONNECTION	R NR 0 40	1 112	1 44	4 96	1 103	4 153	6 157	17 (2) 705 (2)
OTHER	R NR 0 252	0 846	0 122	0 252	3 208	1 217	2 172	6 (1) 2069 (6)
TOTAL R (%)	5 (1)	12 (1)	9 (1)	207 (22)	32 (3)	111 (12)	580 (61)	956
TOTAL NR (%)	1422 (4)	8486 (25)	3077 (9)	5247 (15)	5825 (17)	4692 (14)	5757 (17)	34506
GRAND TOTAL (%)	1427 (4)	8498 (24)	3086 (9)	5354 (15)	5857 (17)	4803 (14)	6337 (18)	38462

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARIZONA

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
PIPE	R NR	1 40	0 73	2 391	1 581	4 428	12 607	20 (5) 2653 (56)
VALVE	R NR	0 189	0 4	0 27	4 53	0 25	0 198	4 (1) 496 (10)
FITTING	R NR	3 219	0 6	0 69	0 91	3 76	20 248	26 (7) 710 (15)
DRIP	R NR	0 51	0 0	0 0	0 0	0 0	0 0	0 (0) 51 (1)
REGULATOR	R NR	3 50	0 1	0 11	0 21	7 7	0 44	10 (3) 134 (3)
TAP CONNECTION	R NR	0 36	0 2	0 13	0 29	0 41	0 52	0 (0) 173 (4)
OTHER	R NR	5 277	0 11	0 72	1 70	1 55	302 51	309 (84) 537 (11)
TOTAL R (%)		12 (3)	0 (0)	2 (1)	6 (2)	15 (4)	334 (91)	369
TOTAL NR (%)		1355 (29)	97 (2)	583 (12)	845 (18)	632 (13)	1200 (25)	4754
GRAND TOTAL (%)		1367 (27)	97 (2)	585 (11)	851 (17)	647 (13)	1534 (30)	5123

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR COLORADO

PART E	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
	0	44	0	130	0	321	0	528	14	15 (38)
	44		104		727		982		2836	(23)
	0	0	0	0	0	0	0	2	2	4 (10)
	0	0	73	25	118	501	728	379	379	1824 (15)
	0	0	0	0	0	1	1	6	3	11 (28)
	15	85	85	221	1317	1241	1470	4434	4434	(36)
	0	0	0	0	0	0	0	0	0	0 (0)
	0	0	1	2	9	32	22	66	66	(1)
	0	0	0	0	0	0	0	0	0	0 (0)
	0	0	49	25	49	62	151	339	339	(3)
	0	0	0	0	0	0	0	0	0	0 (0)
	1	0	7	27	144	194	228	601	601	(5)
	0	0	0	0	0	0	0	0	0	0 (0)
	2	32	29	59	270	534	1126	2052	2052	(17)
	0	1	0	1	1	12	24	39	39	
	(0)	(3)	(0)	(3)	(3)	(31)	(62)			
	62	275	348	773	3017	3319	4358	12152	12152	
	(1)	(2)	(3)	(6)	(25)	(27)	(36)			
	62	276	348	774	3018	3331	4382	12191	12191	
	(1)	(2)	(3)	(6)	(25)	(27)	(36)			

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR IDAHO

PART E	R NR	PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 2	0 0	0 0	0 (0) 2 (1)
FITTING	R NR	0 0	0 0	0 0	0 0	0 0	0 2	0 1	0 8	0 (0) 11 (6)
DRIP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
REGULATOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 (0) 1 (6)
TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 7	0 11	0 (0) 18 (9)
OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 1	0 6	0 5	0 (0) 12 (6)
TOTAL R (#)		0	0	0	0	0	0	0	0	0
TOTAL NR (#)		0	0	0	0	0	27	42	121	190
GRAND TOTAL (%)		0	0	0	0	0	27	42	121	190

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEVADA

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)							
									R	NR	R	NR	R	NR	R
PIPE	0	0	0	0	0	7	2	9 (100)							
	94	0	9	22	186	453	584	1348 (68)							
VALVE	0	0	0	0	0	0	0	0 (0)							
	0	0	1	0	7	13	31	52 (3)							
FITTING	0	0	0	0	0	0	0	0 (0)							
	1	0	6	0	43	286	149	485 (25)							
DRIP	0	0	0	0	0	0	0	0 (0)							
	0	0	0	0	0	0	0	0 (0)							
REGULATOR	0	0	0	0	0	0	0	0 (0)							
	1	0	2	0	0	2	1	6 (2)							
LEAKS ON SERVICES REPAIRED DURING YEAR (BY YEAR INSTALLED)															
TAP CONNECTION	0	0	0	0	0	0	0	0 (0)							
	0	0	0	1	2	23	25	51 (3)							
OTHER	0	0	0	0	0	0	0	0 (0)							
	0	0	0	1	2	15	8	26 (1)							
TOTAL R (%)	0	0	0	0	7	2	0	9							
	(0)	(0)	(0)	(0)	(78)	(22)	(0)								
TOTAL NR (%)	96	0	18	24	240	792	798	1968							
	(5)	(0)	(1)	(1)	(12)	(40)	(41)								
GRAND TOTAL (%)	96	0	18	24	247	794	798	1977							
	(5)	(0)	(1)	(1)	(12)	(40)	(40)								

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DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR OREGON

PART E	PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)	
											0
	VALVE	R NR	0 0	0 6	0 3	0 6	0 13	0 98	0 82	0 (0) 208 (26)	
	FITTING	R NR	0 1	0 8	0 3	0 4	0 17	2 87	2 65	4 (31) 185 (23)	
	DRIP	R NR	0 0	0 2	0 1	0 0	0 2	0 5	0 2	0 (0) 12 (1)	
	REGULATOR	R NR	0 0	0 2	0 0	0 1	0 3	1 5	0 9	1 (8) 20 (6)	
	TAP CONNECTION	R NR	0 0	0 3	0 0	0 2	0 7	0 29	0 39	0 (0) 80 (10)	
	OTHER	R NR	0 0	0 0	0 1	0 0	0 8	1 19	0 26	1 (8) 54 (7)	
	TOTAL R (%)		0 (0)	2 (15)	0 (0)	0 (0)	4 (31)	4 (31)	3 (23)	13	
	TOTAL NR (%)		2 (0)	46 (6)	9 (1)	26 (3)	80 (10)	329 (41)	312 (39)	804	
	GRAND TOTAL (%)		2 (0)	48 (6)	9 (1)	26 (3)	84 (10)	333 (41)	315 (39)	817	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR UTAH

PART E	PIPE	P NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)	
											0
	VALVE	R NR	0 3	0 2	0 11	0 50	0 97	0 27	0 56	0 (0) 246 (9)	
	FITTING	R NR	0 3	0 0	0 6	0 30	0 39	0 33	0 39	0 (0) 150 (6)	
	DRIP	R NR	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 (0) 1 (0)	
	REGULATOR	R NR	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 (0) 1 (1)	
	TAP CONNECTION	R NR	0 1	0 0	0 0	0 5	0 6	0 7	0 25	0 (0) 44 (2)	
	OTHER	R NR	0 0	0 1	0 7	0 5	0 3	0 3	0 7	0 (0) 26 (1)	
	TOTAL R (%)		(0)	(0)	(0)	(14)	(29)	(0)	(57)	7	
	TOTAL NR (%)		37 (1)	22 (1)	56 (2)	225 (8)	307 (11)	215 (8)	1833 (68)	2695	
	GRAND TOTAL (%)		37 (1)	22 (1)	56 (2)	226 (8)	309 (11)	215 (8)	1837 (68)	2702	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WYOMING

PART E	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)		
										0	5
PIPE											
VALVE											
FITTING											
DRIP											
REGULATOR											
TAP CONNECTION											
OTHER											
TOTAL R (%)											
TOTAL NR (%)											
GRAND TOTAL (%)											

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.9

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALASKA

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	0	0	0	0	0	0	110	330
DAMAGE BY OUTSIDE FORCES	0	0	0	0	0	0	88	555
CONSTRUCTION DEFECT	0	0	0	0	0	0	8	43
MATERIAL FAILURE	0	0	0	0	0	0	19	139
OTHER	0	0	0	0	0	0	5	75
TOTAL (\$)	(0)	(0)	(0)	(0)	(0)	(0)	230 (17)	1142 (83)

PART G	MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL (\$)
		1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	
STEEL	4	350	148	33	10	2	11	0	558 (68)
WROUGHT IRON	0	0	0	0	0	0	0	0	0 (0)
CAST IRON	0	0	0	0	0	0	0	0	0 (0)
DUCTILE IRON	0	0	0	0	0	0	0	0	0 (0)
COPPER	3	0	0	0	0	0	0	0	3 (0)
PLASTIC	0	212	52	1	0	0	0	0	265 (32)
OTHER	0	0	0	0	0	0	0	0	0 (0)
SYSTEM (\$)	(1)	(68)	(24)	(4)	(1)	(0)	(1)	(0)	826

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CALIFORNIA

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
CORROSION	352	5566	2953	6608	7078	5630	702	28889 (50)
DAMAGE BY OUTSIDE FORCES	346	200	161	548	672	653	6836	9416 (16)
CONSTRUCTION DEFECT	63	183	145	420	743	855	1173	3582 (6)
MATERIAL FAILURE	18	1212	111	219	360	467	986	3373 (6)
OTHER	681	1993	922	2062	2905	1703	2061	12327 (21)
TOTAL (\$)	1460 (3)	9154 (16)	4292 (7)	9857 (17)	11758 (20)	9308 (16)	11758 (20)	57587

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	NOMINAL SIZE						TOTAL	TOTAL (\$)
		OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"		
STEEL	9720	38688	16412	4244	1716	484	525	633	72422 (72)
WROUGHT IRON	16	20	7	0	0	0	0	0	43 (0)
CAST IRON	6	21	610	228	74	28	41	46	1054 (1)
DUCTILE IRON	2	3	2	0	0	0	0	0	7 (0)
COPPER	1	366	26	0	0	0	0	0	393 (0)
PLASTIC	10009	12065	4518	11	0	0	0	0	26603 (26)
OTHER	5	14	2	0	0	0	0	0	21 (0)
SYSTEM (\$)	19759 (20)	51177 (51)	21577 (21)	4483 (4)	1790 (2)	512 (1)	566 (1)	679 (1)	100543

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR HAWAII

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	1	164	104	153	220	110	7	759 (81)
DAMAGE BY OUTSIDE FORCES	0	17	14	21	24	33	30	139 (15)
CONSTRUCTION DEFECT	0	2	0	1	4	4	6	17 (2)
MATERIAL FAILURE	0	0	0	3	8	6	0	17 (2)
OTHER	0	0	0	0	0	0	0	0 (0)
TOTAL (%)	1 (0)	183 (20)	118 (13)	178 (19)	256 (27)	153 (16)	43 (5)	932

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE								TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	OVER 12"	
STEEL	55	346	103	20	16	2	0	0	542 (95)
WROUGHT IRON	0	0	0	0	0	0	0	0	0 (0)
CAST IRON	0	0	0	0	0	0	0	0	0 (0)
DUCTILE IRON	0	0	0	0	0	0	0	0	0 (0)
CUPPER	0	0	0	0	0	0	0	0	0 (0)
PLASTIC	2	16	2	0	1	0	0	0	21 (4)
OTHER	5	2	0	0	0	0	0	0	7 (1)
SYSTEM (%)	62 (11)	364 (64)	105 (18)	20 (4)	17 (3)	2 (0)	0 (0)	0 (0)	570

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MONTANA

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	48	19	35	15	14	37	118	286(29)
DAMAGE BY OUTSIDE FORCES	5	2	23	25	21	43	222	341(34)
CONSTRUCTION DEFECT	2	1	13	10	17	10	25	78(8)
MATERIAL FAILURE	10	1	10	17	12	7	16	73(7)
OTHER	39	6	8	5	18	10	128	214(22)
TOTAL (%)	104 (10)	29 (3)	89 (9)	72 (7)	82 (8)	107 (11)	509 (51)	992

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	1" OR LESS	NOMINAL SIZE						TOTAL	TOTAL (%)
		OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"		
STEEL	35	1017	431	124	50	8	18	3	1686 (80)
WROUGHT IRON	0	0	0	0	0	0	0	0	0 (0)
CAST IRON	0	0	0	0	0	0	1	0	1 (0)
DUCTILE IRON	0	0	0	0	0	0	0	0	0 (0)
COPPER	0	0	0	0	0	0	0	0	0 (0)
PLASTIC	11	340	71	1	0	0	0	0	423 (20)
OTHER	0	0	0	0	0	0	0	0	0 (0)
SYSTEM (%)	46 (2)	1357 (64)	502 (24)	125 (6)	50 (2)	8 (0)	19 (1)	3 (0)	2110

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NORTH DAKOTA

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU				1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
			1930	1940 THRU 1949	1950 THRU 1959	1960			
CORROSION	5	7	28	20	25	4	1	90(16)	
DAMAGE BY OUTSIDE FORCES	2	4	9	31	73	34	226	379(68)	
CONSTRUCTION DEFECT	0	2	2	3	7	3	3	20(4)	
MATERIAL FAILURE	0	2	4	6	10	6	2	30(5)	
OTHER	1	2	5	12	13	4	5	42(7)	
TOTAL (%)	8 (1)	17 (3)	48 (9)	72 (13)	128 (23)	51 (9)	237 (42)	561	

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	
STEEL	71	1286	793	152	101	18	19	2444 (84)
WROUGHT IRON	0	0	0	0	0	0	0	0 (0)
CAST IRON	0	0	0	0	0	0	0	0 (0)
DUCTILE IRON	0	0	0	0	0	0	0	0 (0)
COPPER	0	0	0	0	0	0	0	0 (0)
PLASTIC	14	393	73	0	0	0	0	480 (16)
OTHER	0	0	0	0	0	0	0	0 (0)
SYSTEM (%)	85 (3)	1679 (57)	866 (30)	152 (5)	101 (3)	18 (1)	19 (1)	2924 (0)

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR SOUTH DAKOTA

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	71	0	0	0	3	3	2	79(24)
DAMAGE BY OUTSIDE FORCES	5	0	0	0	5	27	65	102(31)
CONSTRUCTION DEFECT	0	0	0	0	5	8	8	21(6)
MATERIAL FAILURE	1	0	0	0	4	4	97	106(32)
OTHER	12	0	0	0	9	3	2	26(8)
TOTAL (%)	89 (27)	0 (0)	0 (0)	0 (0)	26 (8)	45 (13)	174 (52)	334

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	
STEEL	0	609	290	54	25	3	9	990 (89)
WROUGHT IRON	0	0	0	0	0	0	0	0 (0)
CAST IRON	0	0	5	1	1	0	0	7 (1)
DUCTILE IRON	0	0	0	0	0	0	0	0 (0)
COPPER	0	0	0	0	0	0	0	0 (0)
PLASTIC	0	111	3	0	0	0	0	114 (10)
OTHER	0	0	0	0	0	0	0	0 (0)
SYSTEM (%)	0 (0)	720 (65)	298 (27)	55 (5)	26 (2)	3 (0)	9 (1)	1111

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WASHINGTON

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (%)
CORROSION	332	126	26	14	82	91	25	695(27)
DAMAGE BY OUTSIDE FORCES	433	117	10	3	32	106	229	930(36)
CONSTRUCTION DEFECT	45	3	1	1	14	34	29	127(5)
MATERIAL FAILURE	141	156	3	6	21	39	59	425(16)
OTHER	192	63	5	8	36	65	53	422(16)
TOTAL (%)	1143 (44)	465 (18)	45 (2)	32 (1)	185 (7)	335 (13)	399 (15)	2600

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL (%)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	
STEEL	31	6071	1689	740	357	4	26	8982 (88)
WROUGHT IRON	0	0	0	0	0	0	0	0 (0)
CAST IRON	0	0	324	156	4	3	6	534 (5)
DUCTILE IRON	0	0	0	0	0	0	0	0 (0)
COPPER	0	0	0	0	0	0	0	0 (0)
PLASTIC	0	579	67	0	0	0	0	646 (6)
OTHER	0	0	0	0	0	0	0	0 (0)
SYSTEM (%)	31 (0)	6650 (65)	2080 (20)	896 (9)	361 (4)	7 (0)	32 (0)	10162

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 5

PART F	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTALS FOR ALL YEARS (\$)
CORROSION	1572	6386	3688	8141	9023	6788	2096	37694(38)
DAMAGE BY OUTSIDE FORCES	1160	482	309	884	1654	2555	13917	20961(21)
CONSTRUCTION DEFECT	202	229	196	538	1271	2205	2846	7487(8)
MATERIAL FAILURE	385	1457	218	558	1455	2105	3115	9293(9)
OTHER	1591	2265	1206	2641	4623	4716	7139	24181(24)
TOTAL (%)	4910 (5)	10819 (11)	5617 (6)	12762 (13)	18026 (18)	18369 (18)	29113 (29)	99616

PART G

MILES OF MAINS IN SYSTEM AT END OF YEAR	NOMINAL SIZE							TOTAL (\$)
	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	8"	10"	12"	
STEEL	16236	66052	27659	7346	2947	865	804	122817 (75)
WROUGHT IRON	16	55	8	0	0	0	0	79 (0)
CAST IRON	6	27	1404	565	105	69	93	2335 (1)
DUCTILE IRON	3	3	2	0	0	0	0	8 (0)
COPPER	5	380	26	0	0	0	0	411 (0)
PLASTIC	10746	21849	5430	50	1	0	0	38076 (23)
OTHER	10	162	20	0	0	0	0	192 (0)
SYSTEM (%)	27022 (16)	88528 (54)	34549 (21)	7961 (5)	3053 (2)	934 (1)	897 (1)	163918

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ARIZONA

PART H	STEEL	UNKNOWN	1/2" OR LESS	OVER 1/2" THRU 1"	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	OVER 6"	TOTALS (%)
CAST IRON		58	0	401	0	0	0	0	459 (0)
COPPER		0	0	1042	0	0	0	0	1042 (0)
PLASTIC		0	158192	57680	2570	9	0	0	218451 (43)
OTHER		0	0	0	0	0	0	0	0 (0)
TOTAL SYSTEM (%)		20122 (4)	158674 (31)	325562 (64)	5488 (1)	374 (0)	28 (0)	0 (0)	510248

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR COLORADO

PART H	UNKNOWN	1/2" OR LESS	OVER 1/2" THRU 1"	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	OVER 6"	TOTALS (%)
STEEL	55224	123927	288794	117386	2299	564	15	588209 (84)
CAST IRON	0	0	0	0	0	0	0	0 (0)
COPPER	0	1	6	2	0	0	0	9 (0)
PLASTIC	0	11098	101810	1641	53	0	0	114602 (16)
OTHER	0	0	660	0	0	0	0	660 (0)
TOTAL SYSTEM (%)	55224 (8)	135026 (19)	391270 (56)	119029 (17)	2352 (0)	564 (0)	15 (0)	703480

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR IDAHO

PART H	UNKNOWN	1/2" OR LESS	OVER 1/2" THRU 1"	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	OVER 6"	TOTALS (%)
STEEL	0	0	87082	2259	76	1	1	89419 (85)
CAST IRON	0	0	0	0	0	0	0	0 (0)
COPPER	0	0	0	0	0	0	0	0 (0)
PLASTIC	0	0	15178	266	0	0	0	15444 (15)
OTHER	0	0	0	0	0	0	0	0 (0)
TOTAL SYSTEM (%)	0 (0)	0 (0)	102260 (98)	2525 (2)	76 (0)	1 (0)	1 (0)	104863

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NEVADA

PART H NUMBER OF SERVICES IN SYSTEM AT END OF YEAR	STEEL	UNKNOWN	1/2" OR LESS		OVER 1/2" THRU 1"		OVER 1" THRU 2"		OVER 2" THRU 4"		OVER 4" THRU 6"		OVER 6"		TOTALS (#)
			150	356	59771	640	36	2	1	60956 (29)					
CAST IRON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0)
CUPPER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0)
PLASTIC	0	89761	38036	9992	324	0	0	0	0	0	0	0	0	138113 (65)	
UTHER	0	0	11611	2503	3	0	0	0	0	0	0	0	0	14117 (7)	
TOTAL SYSTEM (#)	150 (0)	90117 (42)	109418 (51)	13135 (6)	363 (0)	2 (0)	1 (0)	213186							

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR OREGON

PART H	UNKNOWN	OVER 1/2"				OVER 1"		OVER 2"		OVER 4"		TOTALS (%)
		OR LESS	THRU 1"	THRU 1 1/2"	THRU 2"	THRU 4"	THRU 6"	THRU 6"	OVER 6"			
STEEL	0	0	213285	58040	639	28	12	272004 (97)				
CAST IRON	0	0	0	0	0	0	0	0	0	0	0 (0)	
COPPER	0	0	0	0	0	0	0	0	0	0	0 (0)	
PLASTIC	0	5732	2975	0	0	0	0	0	0	0	8707 (3)	
OTHER	0	0	0	0	0	0	0	0	0	0	0 (0)	
TOTAL SYSTEM (%)	(0)	5732 (2)	216260 (77)	58040 (21)	639 (0)	28 (0)	12 (0)	280711				

NUMBER
 OF
 SERVICES
 IN
 SYSTEM
 AT END
 OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR UTAH

PART H NUMBER OF SERVICES IN SYSTEM AT END OF YEAR	UNKNOWN	1/2" OR LESS		OVER 1/2" THRU 1"		OVER 1" THRU 2"		OVER 2" THRU 4"		OVER 4" THRU 6"		OVER 6"		TOTALS (Σ)
		0	7257	153620	50469	795	65	26	212232 (66)					
STEEL	0	0	0	0	0	0	0	0	0	0	0	0	0	2
CAST IRON	0	0	0	0	0	0	0	0	0	0	0	0	0	(0)
COPPER	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLASTIC	0	81627	23543	4544	50	0	0	0	0	0	0	0	0	109764 (34)
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL SYSTEM (%)	(0)	88884 (28)	177163 (55)	55013 (17)	847 (0)	65 (0)	26 (0)	321998						

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WYOMING

PART H	UNKNOWN	1/2" OR LESS	OVER 1/2" THRU 1"	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 6"	OVER 6"	TOTALS (Σ)
STEEL	0	2605	28140	8741	107	5	1	39599 (89)
CAST IRON	0	0	0	0	0	0	0	0 (0)
COPPER	0	0	0	0	0	0	0	0 (0)
PLASTIC	0	839	3525	314	0	0	0	4678 (11)
OTHER	0	0	0	0	0	0	0	0 (0)
TOTAL SYSTEM (Σ)	0 (0)	3444 (8)	31665 (72)	9055 (20)	107 (0)	5 (0)	1 (0)	44277

NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALASKA

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MAINS AND SERVICES INSTALLED DURING YEAR	60	0	60	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
	3164	0	3164		10
				NUMBER OF SERVICES	147
					505
PART P	NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR				
				MAINS SERVICES	1
					1
PART Q	NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR				
	NUMBER OF EMPLOYEES OF OPERATOR	FATALITIES	0	NUMBER OF FIRES	0
		SUFFERING LOST TIME INJURIES	0	NUMBER OF EXPLOSIONS	0
	NUMBER OF EMPLOYEES OF CONTRACTORS	FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
		SUFFERING LOST TIME INJURIES	0	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$
	NUMBER OF NON-EMPLOYEES	FATALITIES	0	OPERATOR	\$
		INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	0	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$
TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR		FATALITIES	0	TOTAL ESTIMATED VALUE	\$
		INJURIES	0		0

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CALIFORNIA

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES OF MAINS	1502	259	1761	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	145589	38844	184833	NUMBER OF SERVICES	29982

PART P	MAINS	7970
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	SERVICES	9124

PART Q	NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	0	NUMBER OF FIRES	109
SUFFERING LOST TIME INJURIES		4	NUMBER OF EXPLOSIONS	14	

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	NUMBER OF EMPLOYEE(S) OF CONTRACTORS	FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	11
		SUFFERING LOST TIME INJURIES	6	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	\$ 9485164
		FATALITIES	1	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 1134601
		INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	13	TOTAL ESTIMATED VALUE	\$ 10619765
TOTALS		FATALITIES	1		
		INJURIES	23		

DJT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DCT F 7100.1-1)
 FUK CALENDAR YEAR 1978

SUMMARY FOR HAWAII

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES AND SERVICES INSTALLED DURING YEAR	2	6	8	MILES AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
244	583	827		628	509

PART P	NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	MAINS SERVICES
		2
		9

PART W	FATALITIES	NUMBER OF FIRES	0
NUMBER OF EMPLOYEE(S) OF OPERATOR	0	0	0
SUFFERING LGST TIME INJURIES	0	0	0

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR.	NUMBER OF EMPLOYEE(S) OF CONTRACTORS	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
	0	0	0
	0	0	0
	0	0	0

FATALITIES	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	OPERATOR	\$
0	0	0	0
0	0	0	0
0	0	0	0

INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$	0
0	0	0	0

TOTALS	FATALITIES	0	TOTAL ESTIMATED VALUE	\$	0
	0	0	0	0	0

INJURIES	0
0	0

OUT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DGT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR SOUTH DAKOTA

PART I	EXPAN- SION	REPLACE- MENT	TOTALS	PART J	PART K
MILES AND SERVICES INSTALLED DURING YEAR	24	12	36	MILES AND SERVICES RETIRE DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
NUMBER OF SERVICES	1713	587	2300	NUMBER OF SERVICES	926

PART P	NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	MAINS SERVICES
		40
		32

PART Q	NUMBER OF EMPLOYEE(S) OF OPERATOR	FATALITIES	0	NUMBER OF FIRES	1
TOTAL PERSONAL INJURIES PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR		SUFFERING LOST TIME INJURIES	0	NUMBER OF EXPLOSIONS	0
		FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
		SUFFERING LOST TIME INJURIES	0	ESTIMATED AGGREGATE VALUE OF PROPERTY DAMAGE TO:	79000
		FATALITIES	0	OTHERS--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	5400
		INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	1	TOTAL ESTIMATED VALUE	\$ 84400
		FATALITIES	0		
		INJURIES	1		

DOT/TRANSPORTATION SYSTEMS CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 DISTRIBUTION SYSTEMS LEAK SUMMARY (DOT F 7100.1-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR REGION 5

PART I	EXPAN- SION	KEPLACE- MENT	TOTALS	PART J	PART K
MILES AND SERVICES INSTALLED DURING YEAR	MILES OF MAINS 4144	491	3635	MAINS AND SERVICES RETIRED DURING YEAR	MILES OF MAINS CATHODICALLY PROTECTED
	NUMBER OF SERVICES 230892	54106	290998	NUMBER OF SERVICES 34425	70002

PART P	MAINS	SERVICES
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	11640	10635

PART Q	FATALITIES	NUMBER OF FIRES	182
NUMBER OF EMPLOYEES OF OPERATOR	SUFFERING LGST TIME INJURIES	9	34
NUMBER OF EMPLOYEES OF CONTRACTORS	FATALITIES	6	17
NUMBER OF PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR	SUFFERING LOST TIME INJURIES	9	10955820
	FATALITIES	2	
	INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	26	
	FATALITIES	8	
	INJURIES	44	
TOTALS	FATALITIES	8	\$ 13304227
	INJURIES	44	
			\$ 2348407
			\$ 10955820
			\$ 11640
			10635
			337
			34425
			70002

3.5.2 Transmission/Gathering Systems

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALASKA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	15	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1960	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1960 THRU 1969	100	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1970 TO END OF REPORTING YEAR	101	.00	1	.01	0	.00	0	.00	0	.00	1	.01
OVER ALL YEARS	216	.00	1	.00	0	.00	0	.00	0	.00	1	.00

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CALIFORNIA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	2	.00	1	.50	0	.00	0	.00	0	.00	1	.50
PRIOR TO 1960	5677	.01	17	.00	6	.00	5	.00	5	.00	93	.02
1960 THRU 1969	2446	.01	4	.00	4	.00	3	.00	19	.01	44	.02
1970 TO END OF REPORTING YEAR	841	.00	2	.00	3	.00	5	.01	3	.00	16	.02
OVER ALL YEARS	8966	.01	24	.00	13	.00	13	.00	27	.00	154	.02

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR HAWAII

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PKIOR TO 1960	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1960 THRU 1969	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
1970 TO END OF REPORTING YEAR	22	.00	0	.00	0	.00	0	.00	0	.00	0	.00
OVER ALL YEARS	22	.00	0	.00	0	.00	0	.00	0	.00	0	.00

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MONTANA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION DEFECT		YEAR BY CAUSE		OTHER		TOTAL NO.	PER MILE
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	MATERIAL FAILURE	PER MILE	NO.	PER MILE		
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1960	1193	.02	4	.00	5	.00	3	.00	9	.01	45	.04
1960 THRU 1969	428	.00	1	.00	1	.00	0	.00	2	.00	5	.01
1970 TO END OF REPORTING YEAR	265	.01	3	.01	0	.00	0	.00	0	.00	6	.02
OVER ALL YEARS	1886	.01	8	.00	6	.00	3	.00	11	.01	56	.03

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NORTH DAKOTA

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION DEFECT		YEAR BY CAUSE		OTHER		TOTAL		
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	MATERIAL FAILURE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	0	.00	0	.00	0	.00
PRIOR TO 1960	1596	.00	0	.00	0	.00	1	6	.00	11	.01		
1960 THRU 1969	643	.00	0	.00	0	.00	1	1	.00	2	.00		
1970 TO END OF REPORTING YEAR	770	.00	0	.00	0	.00	0	0	.00	0	.00	0	.00
OVER ALL YEARS	3009	.00	0	.00	0	.00	2	7	.00	13	.00		

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR UTAH

TOTAL MILES OF MAIN	CORROSION		DAMAGE BY OUTSIDE FORCE		CONSTRUCTION DEFECT		MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
PRIOR TO 1960	3011	.00	2	.00	1	.00	4	.00	0	.00	9	.00
1960 THRU 1969	1645	.00	3	.00	0	.00	0	.00	0	.00	4	.00
1970 TO END OF REPORTING YEAR	741	.00	1	.00	0	.00	0	.00	0	.00	1	.00
OVER ALL YEARS	5397	.00	6	.00	1	.00	4	.00	0	.00	14	.00

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WYOMING

TOTAL MILES OF MAIN	CURROSION		DAMAGE BY OUTSIDE FORCE		LEAKS REPAIRED DURING CONSTRUCTION DEFECT		YEAR BY CAUSE MATERIAL FAILURE		OTHER		TOTAL	
	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE	NO.	PER MILE
YEAR UNKNOWN	25	40.04	0	.00	0	.00	0	.00	0	.00	1001	40.04
PRIOR TO 1960	438	.39	14	.03	14	.03	3	.01	21	.05	221	.50
1960 THRU 1969	752	.04	22	.03	2	.00	0	.00	11	.01	67	.09
1970 TO END OF REPORTING YEAR	375	.03	9	.02	7	.02	0	.00	0	.00	26	.07
OVER ALL YEARS	1590	.76	45	.03	23	.01	3	.00	32	.02	1315	.83

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CALIFORNIA

PART B	DESCRIP- TION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUC- TION DATE	TRAN- SMISSION	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
	TRANS- MISSION	2	438	829	1229	3181	2446	841	8966		
	GATHER- ING	3	2	6	16	131	48	21	227		
	TRANS- MISSION	2	369	697	1185	3119	2348	878	8598		
	GATHER- ING	0	2	3	13	100	44	20	182		
PART C	MILES OF COATED PIPE BY PROTECTION DATE	0	0	154	856	2007	3790	1700	8507		
	TRANS- MISSION	0	0	2	8	87	49	31	177		
	GATHER- ING	0	0	6	31	48	83	0	174		
	TRANS- MISSION	0	0	0	0	8	0	4	12		
	GATHER- ING	0	6	160	887	2055	3873	1700	8681		
	TRANS- MISSION	(0)	(0)	(2)	(10)	(24)	(45)	(20)			
	GATHER- ING	0	0	2	8	95	49	35	189		
	TRANS- MISSION	(0)	(0)	(1)	(4)	(50)	(26)	(19)			
	GATHER- ING										
PART C	MILES OF CATHOD- ICALLY PROTECT- ED SYSTEM										
	MILES OF BAKE PIPE BY PROTECTION DATE										
	TRANS- MISSION										
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DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MONTANA

PART B	DESCRIP- TION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUC- TION DATE	TRANS- MISSION GATHER- ING	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
				0	0	0	3	0	2	0	5
				0	19	355	93	680	428	265	1840
				0	0	0	3	0	2	0	5
PART C											
				0	0	0	0	34	1480	264	1778
				0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0
				0	0	0	0	0	0	46	46
				(0)	(0)	(0)	(0)	(2)	1480 (83)	264 (15)	1778
				(0)	(0)	(0)	(0)	(0)	(0)	46 (100)	46

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR UTAH

PART B	DESCRIP- TION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUC- TION DATE	TRANS- MISSION GATHER- ING	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
		0	5	7	19	23	75	285	176	585	
		0	5	73	153	2766	1640	730	5367		
		0	7	19	23	60	75	77	261		
PART C											
	MILES OF PIPE COATED PIPE BY PROTECTION DATE	0	0	75	77	1560	2888	764	5364		
		0	0	5	2	2	0	16	25		
	MILES OF BARE PIPE BY PROTECTION DATE	0	0	0	0	0	0	0	0		
		0	0	75	77	1560	2888	764	5364		
		0	0	5	2	2	0	16	25		
	PART C TOTAL (%)	0	0	5	2	2	0	16	25		
		(0)	(0)	(20)	(8)	(8)	(0)	(14)	(64)		

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WYOMING

PART B	DESCRIPTION OF PIPE IN SYSTEM AT END OF YEAR	MILES OF PIPE BY CONSTRUCTION DATE	TRANSMISSION GATHERING	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
				25	96	104	109	129	752	375	1590
			GATHERING	0	0	5	0	6	23	92	126
			TRANSMISSION GATHERING	19	0	44	76	98	591	360	1188
			GATHERING	0	0	0	0	0	10	89	99

PART C

CATHODICALLY PROTECTED SYSTEM	MILES OF COATED PIPE BY PROTECTION DATE	TRANSMISSION GATHERING	TRANSMISSION GATHERING	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL
				0	0	0	7	29	648	503	1187
			GATHERING	0	0	0	0	0	9	33	42
			TRANSMISSION GATHERING	0	0	0	0	0	108	19	127
			GATHERING	0	0	0	0	0	0	0	0
			TRANSMISSION GATHERING	0	0	0	7	29	756	522	1314
			GATHERING	0	0	0	0	0	0	0	0
			PART C TOTAL (%)	0	0	0	0	0	9	33	42

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALASKA

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)								
BODY OF PIPE	R 0	0	0	0	0	0	1	1 (100)
NR 0	0	0	0	0	0	0	0	0 (0)
GIRTH WELD	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
LONGITUDINAL	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
FITTING	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	R 0	0	0	0	0	0	1	1
NR 0	(0)	(0)	(0)	(0)	(0)	(0)	(100)	0
GRAND TOTAL (%)	R 0	0	0	0	0	0	1	1
NR 0	(0)	(0)	(0)	(0)	(0)	(0)	(100)	0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100-2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CALIFORNIA

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (#)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR OTHER WELDS INSTALLED)								
BODY OF PIPE	R 0	1	8	3	3	4	5	24 (83)
NR 0	6	17	6	13	7	0	0	49 (48)
GIRTH WELD	R 0	1	1	0	0	0	0	2 (7)
NR 0	1	2	2	0	2	0	3	10 (10)
LONGITUDINAL WELD	R 0	0	0	0	0	0	0	0 (0)
NR 0	1	1	1	0	0	0	0	3 (3)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	2	0	0	0	0	2 (2)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	1	2	0	0	0	1	1 (3)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
FITTING	R 1	0	0	0	0	0	0	1 (3)
NR 0	1	0	1	0	0	9	3	14 (14)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	2	0	2	4 (4)
OTHER	R 0	0	0	0	0	1	0	1 (3)
NR 0	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	R 1	2	9	3	3	5	6	29
NR 0	(7)	(31)	(10)	(10)	(17)	(21)	(21)	103
GRAND TOTAL (%)	(0)	(9)	(20)	(14)	(16)	(33)	(9)	132
R 1	11	30	17	19	39	15	15	
NR 1	(8)	(23)	(13)	(14)	(30)	(11)	(11)	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR HAWAII

PART D	BODY OF PIPE	R NR	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (\$)
TRANSMISSION SYSTEM REPAIRED DURING YEAR (BY YEAR INSTALLED)	COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (\$) 0 (\$)
	VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (\$) 0 (\$)
	SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (\$) 0 (\$)
	TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (\$) 0 (\$)
	FITTING	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (\$) 0 (\$)
	GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (\$) 0 (\$)
	OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (\$) 0 (\$)
	TOTALS (\$)	R NR	0 (\$) 0 (\$)	0 (\$) 0 (\$)	0 (\$) 0 (\$)	0 (\$) 0 (\$)	0 (\$) 0 (\$)	0 (\$) 0 (\$)	0 (\$) 0 (\$)	0 (\$) 0 (\$)
	GRAND TOTAL (\$)		0 (\$)	0 (\$)	0 (\$)	0 (\$)	0 (\$)	0 (\$)	0 (\$)	0 (\$)

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MONTANA

PART D	UNKNOW	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)								
BODY OF PIPE	R 0	0	0	0	0	0	0	0 (0)
NR 0	8	14	0	0	8	4	4	38 (67)
GIRTH WELD	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	7	0	0	3	1	0	11 (19)
LONGITUDINAL WELD	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	3	0	1	4 (7)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	1	1 (2)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	2	0	0	2 (4)
SCRAPEK TRAP	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
FITTING	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	1	0	0	1 (2)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	0	0 (0)
NR 0	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	R 0	0	0	0	0	0	0	0
NR 0	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
GRAND TOTAL (%)	R 0	8	21	0	17	5	6	57
NR 0	(0)	(14)	(37)	(0)	(30)	(9)	(11)	(57)
	R 0	8	21	0	17	5	6	57
	(0)	(14)	(37)	(0)	(30)	(9)	(11)	(57)

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100-2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NORTH DAKOTA

PART D	R NR	BODY OF PIPE	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (\$)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R	NR	0	0	0	0	0	0	0	0 (0)
	NR		0	1	2	1	1	0	0	5 (42)
	R	GIRTH WELD	0	0	0	0	0	0	0	0 (0)
	NR		0	0	0	0	1	0	0	1 (8)
	R	LONGITUDINAL WELD	0	0	0	0	0	0	0	0 (0)
	NR		0	0	0	0	0	1	0	1 (8)
	R	OTHER WELDS	0	0	0	0	0	0	0	0 (0)
	NR		0	0	0	0	0	0	0	0 (0)
	R	COMPRESSOR	0	0	0	0	0	0	0	0 (0)
	NR		0	0	0	0	0	0	0	0 (0)
	R	VALVE	0	0	0	0	0	0	0	0 (0)
	NR		0	0	0	0	0	1	0	1 (8)
	R	SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
	NR		0	0	0	0	0	0	0	0 (0)
	R	TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
	NR		0	0	0	0	0	0	0	0 (0)
	R	FITTING	0	0	0	0	0	0	0	0 (0)
	NR		0	0	0	0	0	0	0	0 (0)
	R	GAS COOLER	0	0	0	0	0	0	0	0 (0)
	NR		0	0	0	0	0	0	0	0 (0)
	R	OTHER	0	0	0	0	1	0	0	1 (100)
	NR		0	0	1	3	0	0	0	4 (33)
TOTALS (\$)	R		0	0	0	0	1	0	0	1
	NR		(0)	(0)	(0)	(0)	(100)	(0)	4 (0)	12
GRAND TOTAL (\$)			(0)	(8)	(25)	(33)	(17)	(17)	(0)	13
			0	1	3	4	3	2	0	
			(0)	(8)	(23)	(31)	(23)	(15)	(0)	

NOTE: *R* = LEAKS REPORTED AND *NR* = LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR UTAH

PART D	UNKNOW	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMISSION- BODY OF PIPE	R NR	0 0	0 0	0 0	4 1	2 2	0 1	6 (100) 4 (50)
GIRTH WELD	R NR	0 0	0 0	0 0	0 2	0 0	0 0	0 (0) 2 (25)
LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 2	0 0	0 0	0 (0) 2 (25)
OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
FITTING	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
GAS CUDLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TOTALS (%)	R NR	0 0	0 0	0 0	4 1	2 2	0 1	6 8
GRAND TOTAL (%)		0 (0)	0 (0)	0 (0)	4 (67)	2 (33)	0 (0)	6
		0 (0)	0 (0)	0 (0)	5 (63)	2 (25)	1 (13)	8
		0 (0)	0 (0)	0 (0)	9 (64)	4 (29)	1 (7)	14

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WYOMING

PART D	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)								
BODY OF PIPE	0	0	0	0	0	15	1	16 (52)
NR	1	33	55	35	22	9	5	160 (68)
GIRTH WELD	0	0	0	0	0	0	0	0 (0)
NR	0	0	12	2	0	6	8	28 (12)
LONGITUDINAL WELD	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
VALVE	0	0	0	0	0	0	1	1 (3)
NR	0	0	0	0	0	6	2	8 (3)
SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	1	1 (0)
FITTING	0	3	0	0	0	11	0	14 (45)
NR	0	0	0	0	0	5	3	8 (3)
GAS COOLER	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER	0	0	0	0	0	0	0	0 (0)
NR	0	7	18	6	0	0	0	31 (13)
TOTALS (%)	0	3	0	0	0	26	2	31
NR	(0)	(10)	(0)	(0)	(0)	(84)	(6)	
GRAND TOTAL (%)	1	50	85	43	22	26	19	236
NR	(0)	(17)	(36)	(18)	(9)	(11)	(8)	
TOTAL	1	50	85	43	22	52	21	267
NR	(0)	(16)	(32)	(16)	(8)	(19)	(8)	

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100,2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALASKA

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
FITTING	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TOTALS (%)	R (0)	(0)	(0)	(0)	(0)	(0)	(0)	0
	NR (0)	(0)	(0)	(0)	(0)	(0)	(0)	0
GRAND TOTAL (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR HAWAII

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
FITTING	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TOTALS (%)	R 0	0	0	0	0	0	0	0
	NR 0	(0)	(0)	(0)	(0)	(0)	(0)	0
GRAND TOTAL (%)	R 0	(0)	(0)	(0)	(0)	(0)	(0)	0
	NR 0	(0)	(0)	(0)	(0)	(0)	(0)	0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MONTANA

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
GIRTH WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
LONGITUDINAL WELD	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER WELDS	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
COMPRESSOR	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
VALVE	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
SCRAPER TRAP	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TAP CONNECTION	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
FITTING	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
GAS COOLER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
OTHER	R NR	0 0	0 0	0 0	0 0	0 0	0 0	0 (0) 0 (0)
TOTALS (%)	R NR	(0) 0	(0) 0	(0) 0	(0) 0	(0) 0	(0) 0	0 0
GRAND TOTAL (%)		(0)	(0)	(0)	(0)	(0)	(0)	0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NORTH DAKOTA

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER WELDS	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
COMPRESSOR	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
VALVE	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
SCRAPER TRAP	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
FITTING	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
GAS COOLER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
OTHER	R 0	0	0	0	0	0	0	0 (0)
	NR 0	0	0	0	0	0	0	0 (0)
TOTALS (%)	R 0	(0)	(0)	(0)	(0)	(0)	(0)	0
	NR 0	(0)	(0)	(0)	(0)	(0)	(0)	0
GRAND TOTAL (%)	R 0	(0)	(0)	(0)	(0)	(0)	(0)	0
	NR 0	(0)	(0)	(0)	(0)	(0)	(0)	0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR UTAH

PART E	BODY OF PIPE	R NR	UNKNOWN	PRIOR TO 1950	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	BODY OF PIPE	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	GIRTH WELD	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	LONGITUDINAL WELD	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	OTHER WELDS	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	COMPRESSOR	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	VALVE	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	SCRAPER TRAP	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	TAP CONNECTION	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	FITTING	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	GAS COOLER	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	OTHER	R	0	0	0	0	0	0	0	0 (0)
		NR	0	0	0	0	0	0	0	0 (0)
	TOTALS (%)	R	0	0	0	0	0	0	0	0
		NR	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
	GRAND TOTAL (%)		(0)	(0)	(0)	(0)	(0)	(0)	(0)	0

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WYOMING

PART E	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	TOTAL (%)
BODY OF PIPE	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	3	2	13 (27)
GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (BY YEAR INSTALLED)	0	0	0	0	0	0	0	0 (0)
GIRTH WELD	0	0	0	0	2	1	0	3 (6)
NR	0	0	0	0	0	0	0	0 (0)
LONGITUDINAL WELD	0	0	0	0	3	0	0	3 (6)
NR	0	0	0	0	0	0	0	0 (0)
OTHER WELDS	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
COMPRESSOR	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
VALVE	0	0	0	0	7	4	0	13 (27)
NR	0	0	0	0	0	0	2	0 (0)
SCRAPER TRAP	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TAP CONNECTION	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
FITTING	0	0	0	0	0	7	2	17 (35)
NR	0	0	0	0	0	0	0	0 (0)
GAS COOLER	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
OTHER	0	0	0	0	0	0	0	0 (0)
NR	0	0	0	0	0	0	0	0 (0)
TOTALS (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0
NR	(0)	(0)	(0)	(0)	(57)	(31)	(12)	49
GRAND TOTAL (%)	(0)	(0)	(0)	(0)	28	15	6	49
NR	(0)	(0)	(0)	(0)	(57)	(31)	(12)	49

NOTE: "R"=LEAKS REPORTED AND "NR"=LEAKS NOT REPORTED UNDER SEC. 191.15

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CALIFORNIA

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	FRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
CORROSION	0	60	13	0	1	3	77 (50)
DAMAGE BY OUTSIDE FORCE	1	17	1	2	1	2	24 (16)
CONSTRUCTION DEFECT	0	6	3	1	0	3	13 (0)
MATERIAL FAILURE	0	5	2	1	0	5	13 (0)
OTHER	0	5	16	1	2	3	27 (18)
TOTAL (%)	1 (1)	93 (60)	35 (23)	5 (3)	4 (3)	16 (10)	154

PART G

BY MATERIAL

	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL
TRANSMISSION GATHERING	8928 (100)	0 (0)	0 (0)	8928
	223 (100)	1 (0)	0 (0)	224

BY NOMINAL SIZE

	TRANSMISSION MISSION	GATHERING MISSION	TRANSMISSION MISSION	GATHERING MISSION	SYSTEM TOTAL (%)	TRANSMISSION MISSION	GATHERING MISSION	SYSTEM TOTAL (%)
1" OR LESS	0	0	16"	899	1	900	20	20 (0)
OVER 1" THRU 2"	35	5	18"	113	0	113	1276	0 1276 (14)
OVER 2" THRU 4"	241	42	20"	550	11	561	703	0 703 (8)
OVER 4" THRU 6"	557	32	22"	241	3	244	0	0 (0)
8"	762	45	24"	224	0	224	0	0 (0)
10"	670	48	26"	381	0	381	0	0 (0)
12"	1176	18	28"	0	0	0	0	0 (0)
14"	3	19	30"	1057	0	1057	224	0 224 (2)
							8928	9152 (98)

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR HAWAII

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	PRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
DAMAGE BY OUTSIDE FORCE	0	0	0	0	0	0	0
CONSTRUCTION DEFECT	0	0	0	0	0	0	0
MATERIAL FAILURE	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0
TOTAL (%)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

PART G

BY
 MATERIAL
 NOMINAL
 SIZE

	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL
TRANSMISSION GATHERING	22 (100)	0 (0)	0 (0)	22
TRANS- GATHER- MISSION ING	0 (0)	22	0 (100)	0
1" OR LESS	0	16"	22	32"
OVER 1" THRU 2"	0	18"	0	34"
OVER 2" THRU 4"	0	20"	0	36"
OVER 4" THRU 6"	0	22"	0	38"
8"	0	24"	0	40"
10"	0	26"	0	42"
12"	0	28"	0	ABOVE 42"
14"	0	30"	0	TOTAL (%)
				22 (100)

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

	SYSTEM TOTAL	TRANS- GATHER- MISSION ING	SYSTEM TOTAL (%)
TRANSMISSION GATHERING	22	0	22
TRANS- GATHER- MISSION ING	0	0	0
1" OR LESS	0	0	0
OVER 1" THRU 2"	0	0	0
OVER 2" THRU 4"	0	0	0
OVER 4" THRU 6"	0	0	0
8"	0	0	0
10"	0	0	0
12"	0	0	0
14"	0	0	0
	22	0	22

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR MONTANA

PART F	TOTAL LEAKS REPAIRED DURING YEAR BY CAUSE (NUMBER BY YEAR INSTALLED)	PRIOR TC 1960			1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
		UNKNOWN	0	24				
	DAMAGE BY OUTSIDE FORCE	0	0	1	0	3	28	
	CONSTRUCTION DEFECT	0	4	1	0	3	(50)	
	MATERIAL FAILURE	0	5	1	0	0	(14)	
	OTHER	0	3	0	0	0	(11)	
	TOTAL (%)	0	9	2	0	0	(3)	
		0	45	4	1	6	(20)	
		(0)	(80)	(7)	(2)	(11)	56	

PART G

BY MATERIAL	TRANSMISSION GATHERING	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
	1" OR LESS	0	0	16"	133	0	32"	0	0
	OVER 1" THRU 2"	40	4	18"	0	0	34"	0	0
	OVER 2" THRU 4"	276	281	20"	188	0	36"	0	0
	OVER 4" THRU 6"	320	320	22"	0	0	38"	0	0
	8"	288	288	24"	0	0	40"	0	0
	10"	335	335	26"	0	0	42"	0	0
	15"	306	306	28"	0	0	ABOVE 42"	0	0
	14"	0	0	30"	0	0	TOTAL (%)	1886	5

MILES OF PIPE IN SYSTEM AT END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NORTH DAKOTA

PART F

TOTAL LEAKS REPAIRED
 DURING YEAR BY CAUSE
 (NUMBER BY YEAR
 INSTALLED)

	UNKNOWN	FRIOR TC 1960	1960 THRU 1964	1965 THRU 1967	1968 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL (%)
CORROSION	0	4	0	0	0	0	4 (31)
DAMAGE BY OUTSIDE FORCE	0	0	0	0	0	0	0 (0)
CONSTRUCTION DEFECT	0	0	0	0	0	0	0 (0)
MATERIAL FAILURE	0	1	1	0	0	0	2 (15)
OTHER	0	6	0	1	0	0	7 (54)
TOTAL (%)	0 (0)	11 (85)	1 (8)	1 (8)	0 (0)	0 (0)	13

PART G

BY MATERIAL

SYSTEM TOTAL

	STEEL (%)	PLASTIC (%)	OTHER (%)
TRANSMISSION GATHERING	2993 (99)	16 (1)	0 (0)
	0 (0)	0 (0)	0 (0)
			3009

BY NOMINAL SIZE

	TRANSMISSION MISSION	GATHERING MISSION	SYSTEM TOTAL (%)	STEEL (%)	PLASTIC (%)	OTHER (%)	TRANSMISSION MISSION	GATHERING MISSION	SYSTEM TOTAL (%)	PIPE SIZE	
1" OR LESS	0	0	0 (0)	16"	189	0 (6)	0	0	0	32"	
OVER 1" THRU 2"	104	0	104 (3)	18"	0	0 (0)	0	0	0	34"	
OVER 2" THRU 4"	358	0	358 (12)	20"	0	0 (0)	0	0	0	36"	
OVER 4" THRU 6"	334	0	334 (11)	22"	0	0 (0)	0	0	0	38"	
8"	607	0	607 (20)	24"	0	0 (0)	0	0	0	40"	
10"	142	0	142 (5)	26"	0	0 (0)	0	0	0	42"	
12"	1267	0	1267 (42)	28"	0	0 (0)	0	0	0	ABOVE 42"	
14"	8	0	8 (0)	30"	0	0 (0)	0	0	0	TOTAL (%)	
											3009 (100)

MILES OF PIPE
 IN SYSTEM AT
 END OF YEAR

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WYOMING

PART F	TOTAL LEAKS REPAIRED DURING YEAR BY CAUSE (NUMBER BY YEAR INSTALLED)	1960				1965				1968				1/1/70 TO 12/31 OF REPORTING YEAR		SYSTEM TOTAL (%)
		UNKNOWN	FRIOR TC 1960	THRU 1964	THRU 1967	THRU 1964	THRU 1967	THRU 1969	THRU 1969	7	10					
	CORROSION	1001	169	11	14	11	14	14	7	10	1212	(92)				
	DAMAGE BY OUTSIDE FORCE	0	14	5	4	13	9	13	9	9	45	(3)				
	CONSTRUCTION DEFECT	0	14	1	1	0	7	0	7	0	23	(2)				
	MATERIAL FAILURE	0	3	0	0	0	0	0	0	0	3	(0)				
	OTHER	0	21	0	0	11	0	11	0	0	32	(2)				
	TOTAL (%)	1001	221	17	19	31	26	31	26	31	1315	(2)				

PART G

MATERIAL	BY NOMINAL SIZE	TRANSMISSION GATHERING	TRANSMISSION MISSION	GATHERING MISSION	SYSTEM TOTAL (%)	STEEL (%)	PLASTIC (%)	OTHER (%)	SYSTEM TOTAL	TRANSMISSION		GATHERING		SYSTEM TOTAL (%)
										1558 (99)	45 (100)	10 (1)	0 (0)	
	1" OR LESS	0	0	0	0	16"	193	0	193	0	32"	0	0	0
	OVER 1" THRU 2"	09	20	109	(6)	18"	0	0	0	0	34"	0	0	0
	OVER 2" THRU 4"	202	16	298	(17)	20"	22	0	22	0	36"	0	0	0
	OVER 4" THRU 6"	468	90	553	(33)	22"	0	0	0	0	38"	0	0	0
	8"	317	0	317	(18)	24"	0	0	0	0	40"	0	0	0
	10"	58	0	59	(3)	26"	0	0	0	0	42"	0	0	0
	12"	134	0	134	(8)	28"	0	0	0	0	ABOVE 42"	0	0	0
	14"	27	0	27	(2)	30"	0	0	0	0	TOTAL (%)	1590	126	1716

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR ALASKA

PART H	PART I			PART J
MILES INSTALLED DURING YEAR	EXPAN- SION	REPLACE- MENT	MILES RETIRED DURING YEAR	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
	TRANSMISSION	0	TRANSMISSION	0
	GATHERING	0	GATHERING	0
	TOTAL	0	TOTAL	208

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

TRANSMISSION 0
 GATHERING 0

PART N

NUMBER OF
EMPLOYEE(S)
OF OPERATOR

FATALITIES 0
 SUFFERING LOST
TIME INJURIES 0

NUMBER OF FIRES 0

FATALITIES 0

NUMBER OF EXPLOSIONS 0

TOTAL
PERSONAL
INJURIES OR
PROPERTY
DAMAGE
RESULTING
FROM ESCAPE
OF GAS DURING
YEAR

FATALITIES 0
 SUFFERING LOST
TIME INJURIES 0

NUMBER OF INDUCED SECONDARY
EXPLOSIONS OR FIRES 0

FATALITIES 0

OPERATOR \$ 25000

NUMBER OF
NON-
EMPLOYEE(S)

FATALITIES 0
 INJURED & REQUIRING
MEDICAL TREATMENT
OTHER THAN ON-SITE
FIRST AID 0

ESTIMATED
AGGREGATE
VALUES OF
PROPERTY
DAMAGE TO:

OTHER--FOR ALL
CASES SETTLED
DURING THE
REPORTING YEAR \$ 0

TOTAL
ESTIMATED
VALUE \$ 25000

TOTALS

FATALITIES 0

INJURIES 0

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR CALIFORNIA

PART H		PART I			PART J	
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN-SION	REPLACE-MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
		15	13	12	12	
		1	2		1	
		16	15		13	8870

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

TRANSMISSION 8
 GATHERING 0

PART N

NUMBER OF EMPLOYEE(S) OF OPERATOR

FATALITIES 0
 SUFFERING LOST TIME INJURIES 0
 NUMBER OF FIRES 2
 NUMBER OF EXPLOSIONS 0

NUMBER OF EMPLOYEE(S) OF CONTRACTORS

FATALITIES 0
 SUFFERING LOST TIME INJURIES 1
 NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES 0

NUMBER OF NON-EMPLOYEE(S)

FATALITIES 0
 INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID 0
 ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO: OPERATOR \$ 499746
 OTHER---FOR ALL CASES SETTLED DURING THE REPORTING YEAR \$ 3150

TOTALS

FATALITIES 0
 ESTIMATED VALUE \$ 502896

INJURIES 1

TOTAL ESTIMATED VALUE \$ 502896

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR HAWAII

PART H		PART I		PART J		
MILES INSTALLED DURING YEAR	SYSTEM	EXPAN- SION	REPLACE- MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES TOTAL SYSTEM CATHODICALLY PROTECTED
	TRANSMISSION GATHERING TOTAL	0	0	0	0	22

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

TRANSMISSION	0
GATHERING	0

PART N

NUMBER OF EMPLOYEE(S) OF OPERATOR

FATALITIES	0	NUMBER OF FIRES	0
SUFFERING LOST TIME INJURIES	0	NUMBER OF EXPLOSIONS	0

NUMBER OF EMPLOYEE(S) OF CONTRACTORS

FATALITIES	0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
SUFFERING LOST TIME INJURIES	0	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	\$

NUMBER OF NON-EMPLOYEE(S)

FATALITIES	0	OTHER---FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$	0
INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	0	TOTAL ESTIMATED VALUE	\$	0

TOTALS

FATALITIES	0
INJURIES	0

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR NURTH DAKOTA

PART H		PART I			PART J	
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN-SION	REPLACE-MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
		15	1		1	
		0	0		0	
		15	1		1	3001
PART M						
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR						
					TRANSMISSION	0
					GATHERING	0
PART N						
NUMBER OF EMPLOYEE(S) OF OPERATOR						
				0	NUMBER OF FIRES	1
				0	NUMBER OF EXPLOSIONS	1
				0	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES	0
				0	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:	
				0	OPERATOR	\$ 6800
				0	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR	\$ 0
				0	TOTAL ESTIMATED VALUE	\$ 6800
TOTALS						
				0	FATALITIES	
				0	INJURIES	

TOTAL PERSONAL INJURIES OR PROPERTY DAMAGE RESULTING FROM ESCAPE OF GAS DURING YEAR

INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR UTAH

PART H		PART I			PART J	
MILES INSTALLED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	EXPAN-SION	REPLACE-MENT	MILES RETIRED DURING YEAR	SYSTEM TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
		20	22	44	44	5389
		42	14	14	14	
		62	36	36	58	

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR	TRANSMISSION	GATHERING
	0	0

PART N

FATALITIES	NUMBER OF FIRES
0	1

SUFFERING LOST TIME INJURIES	NUMBER OF EXPLOSIONS
0	0

FATALITIES	NUMBER OF INDUCED SECONDARY EXPLOSIONS OR FIRES
0	1

SUFFERING LOST TIME INJURIES	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:
0	OPERATOR \$ 352450

FATALITIES	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR
0	0

TOTALS	TOTAL ESTIMATED VALUE
0	\$ 352450

FATALITIES	INJURIES
0	0

NUMBER OF EMPLOYEE(S) OF OPERATOR	NUMBER OF FIRES
0	1

NUMBER OF EMPLOYEE(S) OF CONTRACTORS	NUMBER OF EXPLOSIONS
0	0

NUMBER OF NON-EMPLOYEE(S)	ESTIMATED AGGREGATE VALUES OF PROPERTY DAMAGE TO:
0	OPERATOR \$ 352450

INJURED & REQUIRING MEDICAL TREATMENT OTHER THAN ON-SITE FIRST AID	OTHER--FOR ALL CASES SETTLED DURING THE REPORTING YEAR
0	0

TOTALS	TOTAL ESTIMATED VALUE
0	\$ 352450

FATALITIES	INJURIES
0	0

DOT/TRANSPORTATION SYSTEM CENTER
 STATISTICAL INFORMATION REPORTING BRANCH
 TRANSMISSION & GATHERING SYSTEM LEAK SUMMARY (DOT F 7100.2-1)
 FOR CALENDAR YEAR 1978

SUMMARY FOR WYOMING

PART H	EXPAN- SION	REPLACE- MENT	PART I	MILES RETIRED DURING YEAR	SYSTEM	MILES	PART J
					TRANSMISSION GATHERING TOTAL	TRANSMISSION GATHERING TOTAL	MILES OF TOTAL SYSTEM CATHODICALLY PROTECTED
	11	37		81		81	1356
	15	0		0		0	
	26	37		81		81	

PART M

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

TRANSMISSION	1
GATHERING	0

PART N

NUMBER OF
EMPLOYEE(S)
OF OPEKATOR

FATALITIES 0 NUMBER OF FIRES 0

SUFFERING LOST
TIME INJURIES

0 NUMBER OF EXPLOSIONS 0

TOTAL
PERSONAL
INJURIES OR
PROPERTY
DAMAGE

FATALITIES 0 NUMBER OF INDUCED SECONDARY
EXPLOSIONS OR FIRES 0

SUFFERING LOST
TIME INJURIES

0 ESTIMATED
AGGREGATE
VALUES OF
PROPERTY
DAMAGE TO:

OPERATOR \$ 950

RESULTING
FROM ESCAPE
OF GAS DURING
YEAR

FATALITIES 0 INJURED & REQUIRING
MEDICAL TREATMENT
OTHER THAN ON-SITE
FIRST AID 0

OTHER--FOR ALL
CASES SETTLED
DURING THE
REPORTING YEAR \$ 0

TOTALS

FATALITIES 0 TOTAL
ESTIMATED
VALUE \$ 950

INJURIES 0

APPENDIX A

ANNUAL FORMS

DEPARTMENT OF TRANSPORTATION
ANNUAL REPORT FOR CALENDAR YEAR 19
DISTRIBUTION SYSTEM

When data are readily available, such data should be reported. Current year reporting should be actual data. When back data are not obtainable without a major effort to reconstruct prior years, estimates may be reported and so noted. A brief explanation of the procedures used in deriving estimates should be attached. Each operator shall submit separate reports for each of his corporate subsidiaries that transport gas. If additional instruction is needed to complete this form, the operator may telephone the Department of Transportation, Office of Pipeline Safety, Area Code 202 962-6000, Monday through Friday, 8:30 a.m. to 5:00 p.m. Eastern Time.

PART A—OPERATOR INFORMATION

NAME OF OPERATOR		NUMBER & STREET	REPORTING OFFICIAL'S TELEPHONE NUMBER (Include Area Code)
CITY & COUNTY		STATE & ZIP CODE	

TR	TP	YEAR	OPR I.D.	← OPS USE ONLY
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PART B	DESCRIPTION OF PIPE IN SYSTEM AT END OF YEAR	ITEM	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL																																																																																																																																												
											<table border="1"> <tr> <td rowspan="2">Pipe by Construction Date</td> <td>MILES OF MAINS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NUMBER OF SERVICES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Coated A Pipe by Coating Date</td> <td>MILES OF MAINS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NUMBER OF SERVICES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		Pipe by Construction Date	MILES OF MAINS										NUMBER OF SERVICES										Coated A Pipe by Coating Date	MILES OF MAINS										NUMBER OF SERVICES																																																																																																									
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Coated A Pipe by Coating Date	MILES OF MAINS																																																																																																																																																					
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PART C		CATHODICALLY PROTECTED SYSTEM																																																																																																																																																				
		<table border="1"> <tr> <td rowspan="2">Coated A Pipe by Protection Date</td> <td>MILES OF MAINS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NUMBER OF SERVICES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Bare B Pipe by Protection Date</td> <td>MILES OF MAINS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NUMBER OF SERVICES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		Coated A Pipe by Protection Date	MILES OF MAINS										NUMBER OF SERVICES										Bare B Pipe by Protection Date	MILES OF MAINS										NUMBER OF SERVICES																																																																																																																		
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PART D		LEAKS ON MAINS REPAIRED DURING YEAR (By year installed) (R = Leaks repaired and NR = Leaks not reported under Section 191.9)																																																																																																																																																				
		<table border="1"> <tr> <td rowspan="2">PIPE</td> <td>R</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">VALVE</td> <td>R</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">FITTING</td> <td>R</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">DRIP</td> <td>R</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">REGULATOR</td> <td>R</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">TAP CONNECTION</td> <td>R</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">OTHER</td> <td>R</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		PIPE	R										NR										VALVE	R										NR										FITTING	R										NR										DRIP	R										NR										REGULATOR	R										NR										TAP CONNECTION	R										NR										OTHER	R										NR									
PIPE	R																																																																																																																																																					
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OTHER	R																																																																																																																																																					
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PART E		LEAKS ON SERVICES REPAIRED DURING YEAR (By year installed) (R = Leaks reported and NR = Leaks not reported under Section 191.9)																																																																																																																																																				
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A Pipe coated with any hot or cold applied coating or wrapper

B Pipe without any type of hot or cold applied coating or wrapper

DEPARTMENT OF TRANSPORTATION
ANNUAL REPORT FOR CALENDAR YEAR 19__
GAS TRANSMISSION & GATHERING SYSTEMS

When data are readily available, such data should be reported. Current year reporting should be actual data. When back data are not obtainable without a major effort to reconstruct prior years, estimates may be reported and so noted. A brief explanation of the procedures used in deriving estimates should be attached. Each operator shall submit separate reports for each of his corporate subsidiaries that transports gas. If additional instruction is needed to complete this form, the operator may telephone the Department of Transportation, Office Of Pipeline Safety, Area Code 202 962-6000, Monday through Friday, 8:30 a.m. to 5:00 p.m. Eastern Time.

PART A—OPERATOR INFORMATION

NAME OF OPERATOR		NUMBER & STREET	REPORTING OFFICIAL'S TELEPHONE NUMBER (Include Area Code)
CITY AND COUNTY		STATE & ZIP CODE	

TR	TP	YEAR	OPR. I.D.	← OPS USE ONLY	
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PART B	DESCRIPTION OF PIPE IN SYSTEM AT END OF YEAR	Miles of Pipe by Construction Date	TRANSMISSION	GATHERING	UNKNOWN	PRIOR TO 1930	1930 THRU 1939	1940 THRU 1949	1950 THRU 1959	1960 THRU 1969	1/1/70 TO 12/31 OF REPORTING YEAR	SYSTEM TOTAL	
													TRANSMISSION
PART C	CATHODICALLY PROTECTED SYSTEM	Miles of Coated Pipe by Protection Date	TRANSMISSION										
			GATHERING										
	Miles of Bare Pipe by Protection Date	TRANSMISSION											
		GATHERING											
PART D	TRANSMISSION SYSTEM LEAKS REPAIRED DURING YEAR (By Year Incidents) (* "R" = leaks reported and "NR" = leaks not reported under Sec. 191.15)	BODY OF PIPE	R										
			NR										
		GIRTH WELD	R										
			NR										
		LONGITUDINAL WELD	R										
			NR										
		OTHER WELDS	R										
			NR										
		COMPRESSOR ^C	R										
			NR										
		VALVE	R										
			NR										
		SCRAPER TRAP	R										
			NR										
TAP CONNECTION	R												
	NR												
FITTING	R												
	NR												
GAS COOLER	R												
	NR												
OTHER	R												
	NR												
PART E	GATHERING SYSTEM LEAKS REPAIRED DURING YEAR (By Year Incidents) (* "R" = leaks reported and "NR" = leaks not reported under Sec. 191.15)	BODY OF PIPE	R										
			NR										
		GIRTH WELD	R										
			NR										
		LONGITUDINAL WELD	R										
			NR										
		OTHER WELDS	R										
			NR										
		COMPRESSOR ^C	R										
			NR										
		VALVE	R										
			NR										
		SCRAPER TRAP	R										
			NR										
TAP CONNECTION	R												
	NR												
FITTING	R												
	NR												
GAS COOLER	R												
	NR												
OTHER	R												
	NR												

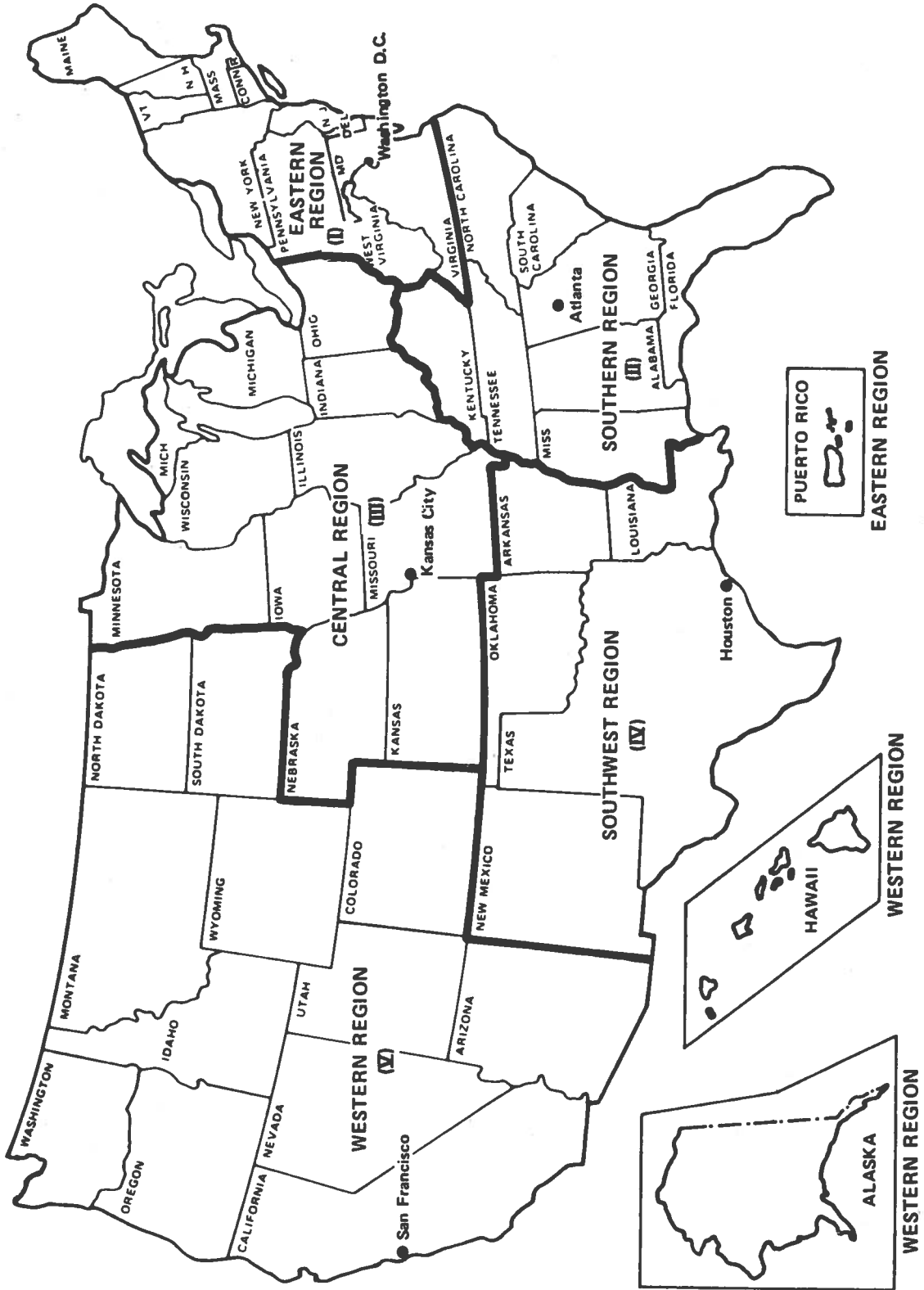
^A Pipe coated with any hot or cold applied coating or wrapper.
^B Pipe without any type of hot or cold applied coating or wrapper.

^C Compressor includes the main body of the unit and appurtenances therein that are not listed separately on the left above.

APPENDIX B

MAP OF MTB REGIONS

MATERIALS TRANSPORTATION BUREAU REGIONAL BOUNDARIES



APPENDIX C

GLOSSARY

GLOSSARY

Distribution System: Annual Report: Each operator of a distribution system submits an annual report on Department of Transportation Form DOT-F 7100.1-1 not later than February 15 for the preceding calendar year. The annual report need not be submitted by petroleum gas systems which serve less than 100 customers from a single source. (49 CFR 191.11)

Transmission and Gathering System: Annual Report: Each operator of a transmission system or a gathering system submits an annual report on Department of Transportation Form DOT-F 7100.2-1 not later than February 15 for the preceding calendar year. (49 CFR 191.17)

Addressee for Written Reports: Each written report is submitted to Director, Office of Pipeline Safety, Department of Transportation, Washington, DC 20590. However, reports for intrastate facilities subject to the jurisdiction of a state agency pursuant to certification under Section 5(a) of the Natural Gas Pipeline Safety Act may be submitted in duplicate to the state agency if the regulations of that agency require submission of these reports and provide for further transmittal within 10 days of receipt for leak reports and not later than February 15 for annual reports (49 CFR 191.7).

Distribution Line: Means a pipeline other than a gathering or transmission line (49 CFR 192.3)

Gathering Line: Means a pipeline that transports gas from a current production facility to a transmission line or main (49 CFR 192.3).

Transmission Line: Means a pipeline, other than a gathering line, that:

- a. Transports gas from a gathering line or storage facility to distribution center or storage facility;
- b. Operates at a hoop stress of 20 percent or more of specified minimum yield strength (SMYS); or
- c. Transports gas within storage field. (49 CFR 192.3)

Service Line: Means a distribution line that transports gas from a common source of supply to (a) a customer meter or the connection to a customer's piping, whichever is farther downstream, or (b) the connection to a customer's piping if there is no meter. (49 CFR 192.3.)

Customer Meter: Means the meter that measures the transfer of gas from an operator to a consumer (49 CFR 192.3).

Natural Gas: A naturally occurring mixture of hydrocarbon and non-hydrocarbon gases found in porous geologic formations beneath the earth's surface, often in association with petroleum. The principal constituent is methane.

Pipeline: Means all parts of those physical facilities through which gas moves in transportation, including pipe, valves, and other appurtenance attached to pipe, compressor units, metering stations, regulator stations, delivery stations, holders and fabricated assemblies. (49 CFR 192.3)

