

August 1984

DRAFT

SURVEY OF TAR WASTE DISPOSAL AND
LOCATIONS OF TOWN GAS PRODUCERS

August 1984

"This document has not been peer and administratively reviewed
within EPA and is for internal use/distribution only"

SURVEY OF TAR WASTE DISPOSAL AND
LOCATIONS OF TOWN GAS PRODUCERS

Radian Corporation
7655 Old Springhouse Road
McLean, Virginia 22102

Contract No. 68-02-3137

EPA Project Officer: William J. Rhodes

Advanced Processes Branch
Industrial Environmental Research Laboratory
Research Triangle Park, NC 27711

Prepared for:

Office of Environmental Engineering & Technology
Office of Research and Development
U. S. Environmental Protection Agency
Washington, D.C. 20460

Foreword

This work was initiated due to several questions asked of this office regarding the potential environmental problems from waste disposal of previous gasification-type activities. From our knowledge of synthetic fuels' production, we were aware that tars were likely disposed of from at least some of the old gas works such as town gas producers. In order to obtain a firmer basis for deciding what level of effort might be appropriate to evaluate the potential problem, a quick survey to determine the quantities of waste tars and general locations of sites was initiated.

As the survey progressed, the interest in this area grew. However, with a few exceptions, the original intent was held firm for it quickly became apparent that there were many questions being raised which could take considerable time and effort to answer. Some of these are: what are exact locations of disposal sites within each town; for what is the land now being used; what and how much were disposed of at each site; what disposal method was used; what were, are, or will be the environmental and health impacts of disposal; should remedial action be taken; and are waste recovery and reuse options feasible. The intent was not to answer these questions but to provide information to allow responsible individuals to decide whether there is sufficient concern to warrant additional activity. Thus, what is presented here is an attempt to present facts with some scientific extrapolations, where necessary, and to avoid emotion and conjecture in an effort to present to policy and decision makers a sound basis for their consideration.

William J. Rhodes
Synfuels Technical Coordinator
Industrial Environmental Research Laboratory
Research Triangle Park, N.C. 27711

TABLE OF CONTENTS

Foreword	ii
Figures.	iv
Tables	v
Conversion Factors and Definitions of Symbols.	v
Abstract	vi
1 Introduction.	1
Background	1
Project Overview	2
2 Approach and Results.	5
Source of Data	5
Site Identification Tables and Maps.	7
Estimation of-Tar Production	33
Other By-Products	40
References	42
Appendices	
A. Background Information on Data Source and Processes	A-1
B. Identification of Town Gas Manufacturing Sites - All Plants (1890-1950).	B-1

FIGURES

<u>Number</u>		<u>Page</u>
1	States vs. EPA Regions.	4
2	Map of All Gas Manufacturing Sites in U.S. (1890)	22
3	Map of Gas Manufacturing Sites in EPA Region 1 (1890)	23
4	Map of Gas Manufacturing Sites in EPA Region 2 (1890)	24
5	Map of Gas Manufacturing Sites in EPA Region 3 (1890)	25
6	Map of Gas Manufacturing Sites in EPA Region 4 (1890)	26
7	Map of Gas Manufacturing Sites in EPA Region 5 (1890)	27
8	Map of Gas Manufacturing Sites in EPA Region 6 (1890) :	28
9	Map of Gas Manufacturing Sites in EPA Region 7 (1890)	29
10	Map of Gas Manufacturing Sites in EPA Region 8 (1890)	30
11	Map of Gas Manufacturing Sites in EPA Region 9 (1890)	31
12	Map of Gas Manufacturing Sites in EPA Region 10 (1890).	32
A-1	Sample Page from Brown's 1890 Edition	A-2
A-2	Sample Page from <u>Brown's</u> 1950-51 Edition.	A-3
A-3	Description of Processes from <u>Brown's</u>	A-9

TABLES

<u>Number</u>		<u>Page</u>
1	Summary of Town Gas Sites and Production by State (1890-1950).	8
2	Summary of Town Gas Manufacturing Sites and Average for Large Plants (>200 MM scf/yr.) . . .	13
3	History of Number of Sites and Production of Town Gas from 1890 to 1950.	21
4	Summary of Town Gas and Tar Production by State (1890-1950).	34
5	Rank of States according to Estimated Tar Production.	36
6	By-Product Disposition.	41
B-1	Identification of Town Gas Manufacturing Sites - All Plants (1890-1950).	B-8

CONVERSION FACTORS AND DEFINITIONS OF SYMBOLS

BTU	= British Thermal Unit (quantity of heat required to raise the temperature of one pound of water one degree Fahrenheit) = approximately 252 calories
scf	= Standard cubic feet measured at 60°F and 30 in. Hg.
BTU/scf	= Heating value of a gas
gal	= U.S. gallons
lbs	= Mass pounds (5×10^{-4} tons)
M	= 1,000
MM	= 1,000,000
ton	= Short ton (2,000 lbs)
yr	= Year

ABSTRACT

[This report presents data compiled from available literature identifying plants that manufactured town gas from fossil fuels (e.g., coal, oil) and which existed in the U.S. during the 1890 to 1950 time period. The results are the first step of a preliminary study to investigate the fate and potential environmental impact of by-products (such as tar) from the manufactured gas industry.] A list of gas manufacturing sites and company names was compiled by reviewing published gas statistics. It is estimated that more than 1,500 manufactured gas facilities existed between the years 1890 and 1950. In addition, available gas and by-product production data and gasifier/process information are reported.

Based on these data, a rough estimate for the total production of tar by the U.S. manufactured gas industry was developed. It is estimated that approximately 15 trillion cubic feet of gas was manufactured in the United States between the years 1881 and 1950, resulting in the production of 11 billion gallons of tar as a by-product. Of this total tar production, 8.4 billion gallons (76 percent) were estimated to be sold and the remainder, 2.6 billion gallons (24 percent), were assumed to be consumed at the plant site, sold (without reporting of sales to ongoing surveys), or discarded. The explanations and assumptions used in compiling the data as well as those used in developing the tar estimates are also discussed in this report. Excess quantities of other by-products, such as coke and ammonia, may have been disposed of also. However, this study focused on tar because it is considered the more potentially significant waste disposal problem.

SECTION I

INTRODUCTION

BACKGROUND

Prior to the widespread use of natural gas, the United States relied, in part, on town gas produced from fossil fuels (predominantly coal) for heating and lighting purposes during the 1800s and early 1900s. The manufacture of town gas typically resulted in the production of by-products (including tar) from the gas purification processes. These by-products would have been sold or utilized to the extent possible; however, any excess may have been disposed of in some manner. The potential environmental impact of the disposal of solid wastes (particularly unsold and non-utilized by-product tars) from the manufacture of town gas has become a recent area of interest. Because of the large size of this industry, this may be one of the largest generic sources of waste (in terms of number of disposing sites). As a preliminary step in evaluating the potential problems, a literature search and subsequent data compilation have been completed in order to identify the gas manufacturing sites which existed and the amount of by-products (especially tars) that were produced.

Historically, the term, town gas, was used to generically refer to any combination of combustible gases distributed from localized sources to end users. Town gas could be either natural gas or gas produced from the heating of fossil fuels. However, in this report, it is used to refer only to manufactured gas. Manufactured gas is of concern in this study because of the significant amounts of wastes which could be associated with typical gas manufacturing processes. These processes can

be classified as either carbonization or gasification, which are distinguished primarily by the type of gas produced and the feedstock. Carbonization, or the heat treatment of coal in the absence of oxygen, produced a predominantly methane/hydrogen gas called coal gas. Primary by-products that resulted from purification were tar, coke, and ammonia. Passing steam through hot coal or coke, a process known as gasification, produced water gas, which is comprised mainly of hydrogen and carbon monoxide. Tar, coke, and ammonia by-products were formed, however in lesser amounts than formed during carbonization. Water gas could be enriched with oil gas to form "carburetted water gas" to give it a higher heating value. Oil gas was produced by the thermal cracking of oil achieved by spraying oil onto hot brickwork or a bed of hot catalyst. Typical by-products resulting from oil gasification were oil derivatives, tar, and naphthalene.

PROJECT OVERVIEW

The purpose of this study is to review and summarize pertinent data available in the open literature on the manufactured gas industry so that a preliminary assessment can be made of the quantities of solid wastes that may have been disposed of at gas manufacturing sites. The following steps (listed in chronological order) were taken to accomplish this purpose within the scope of the project:

1. A literature search was performed to identify possible sources of data, with special attention to sources containing detailed site and by-product information.
2. Based on the available information found in the open literature, data were compiled on plant location, manufacturing process type, and gas and by-product production rates.

3. A rough estimate for the total tar produced in the U.S. manufactured gas industry was developed based on the compiled data.
4. This summary report was prepared to present the data and provide documentation of assumptions used in the development of the data tables and the tar production estimates.

Details regarding the first three steps just mentioned are given in Section 2 (Approach and Results). Summary data tables are arranged according to EPA regions, as shown in Figure 1, and are presented in Section 2. Regional maps are presented individually in Section 2. Appendix A contains sample pages from the primary data source and descriptions of the different manufactured gas types and water gas processes. A detailed data table which presents the site-by-site information collected during the data compilation phase is presented in Appendix B.



STATE/TERRITORY	EPA REGION	STATE/TERRITORY	EPA REGION	STATE/TERRITORY	EPA REGION
ALABAMA	4	KENTUCKY	4	OHIO	5
ALASKA	10	LOUISIANA	6	OKLAHOMA	6
AMERICAN SAMOA	9	MAINE	1	OREGON	10
ARIZONA	9	MARYLAND	3	PENNSYLVANIA	3
ARKANSAS	6	MASSACHUSETTS	1	PUERTO RICO	2
CALIFORNIA	9	MICHIGAN	5	RHODE ISLAND	1
COLORADO	8	MINNESOTA	5	SOUTH CAROLINA	4
CONNECTICUT	1	MISSISSIPPI	4	SOUTH DAKOTA	8
DELAWARE	3	MISSOURI	7	TENNESSEE	4
DIST. OF COL.	3	MONTANA	8	TEXAS	6
FLORIDA	4	NEBRASKA	7	UTAH	8
GEORGIA	4	NEVADA	9	VERMONT	1
GUAM	9	NEW HAMPSHIRE	1	VIRGIN ISLANDS	2
HAWAII	9	NEW JERSEY	2	VIRGINIA	3
IDAHO	10	NEW MEXICO	6	WASHINGTON	10
ILLINOIS	5	NEW YORK	2	WEST VIRGINIA	3
INDIANA	5	NORTH CAROLINA	4	WISCONSIN	5
IOWA	7	NORTH DAKOTA	8	WYOMING	8
KANSAS	7				

Figure 1. States vs. EPA Regions

SECTION 2

APPROACH AND RESULTS

This section presents summaries of the compiled data in tabular and graphical form, as well as discussion of the general approach to the data compilation and tar production estimation. The comprehensive data table, which represents the detailed results of this study, is included in Appendix B. Section 2 is divided into four parts. The first part is concerned with the source of data and the general approach taken to compile useful data. The second part presents the summary data tables and discusses points to consider in using the data, as well as corresponding explanations of column headings and assumptions made in data compilation for each of the tables. This part also includes maps showing the plant sites reported in the year 1890 to give the reader an overall visual impression of the breadth and number of these sites. The main map (Figure 4) is broken down into 10 individual maps (Figures 5 through 14), each showing a separate EPA region. The third part discusses the steps and assumptions used to develop the tar production estimate. The final part briefly discusses gas manufacturing by-products/wastes other than tar.

SOURCE OF DATA

The primary source of information in this study was Brown's Directory of American Gas Companies (referred to hereafter as Brown's), an annual publication (since 1887) that contains statistics for the U.S. gas industry. It was the only source found which allowed identification of individual plant

sites over a wide time period. In addition, gas and by-product production data were reported (although the latter was not reported until later years - circa 1920). Example pages from the 1890 and 1950-1951 editions of Brown's are presented in Appendix A to show the extent and detail of the information reported. The information in Brown's is based primarily on surveys completed by each gas company. The data were compiled and published in the directory. The use of surveys most likely resulted in some degree of inconsistency and incompleteness in the reported information.

Based on the scope of the study and the available time and information, data were compiled from Brown's for every tenth year beginning in 1890 and ending in 1950, for a maximum of seven years of data for each site. This approach should include almost all manufactured gas plants reported in Brown's since most plants operated for at least 10 years. It should be noted that production data reported in Brown's refer to the previous year's operation (e.g., gas production reported in the 1900 edition referred to production for the year 1899). Throughout the remainder of this report, the term "decennial years" will be used to refer to the years (or volumes of Brown's) for which data were gathered (1890, 1900, 1910, 1920, 1930, 1940, and 1950).

SITE IDENTIFICATION TABLES AND MAPS

This section presents the summary data tables and corresponding discussion for each table, including the main data table (Table B-1) found in Appendix B. Table 1 shows site tallies and total gas productions by state/territory for the time period, 1881-1950. Table 2 shows average production rates for plants having an average total production greater than 200 million scf/year. In order to simplify the anticipated use and evaluation of the data shown in Tables 1 and 2, the states/territories are arranged according to their respective EPA regions. Figure 1 shows the correspondence between the states/territories and EPA regions, as well as the EPA regional offices. Details for each table are described below.

Production Rate by State/Territory

Table 1 presents two important pieces of information for each state: the total number of sites reported and the estimated manufactured gas production, both for the time period 1880-1950. The STATE/TERRITORY column includes all 50 U.S. states as well as U.S. territories which are part of EPA regions. The NUMBER OF SITES indicates the number of plants for each state/territory which were reported to manufacture gas during at least one of the decennial years. As shown in the total, approximately 1,500 manufactured gas sites were identified between 1890 and 1950. Details regarding the gas and by-product production data may be found in Table B-1 and its discussion in Appendix B.

TABLE 1. SUMMARY OF TOWN GAS SITES AND PRODUCTION BY STATE (1881-1950)

					(3)
EPA REGION	STATE/TERRITORY	NUMBER OF SITES	(2)		ESTIMATED PRODUCTION OF
			NUMBER OF LARGE SITES	NO. GAS DATA PTS.	MANUFACTURED GAS (MM scf)
1	CONNECTICUT	25	11	106	331,000
1	MAINE	16	2	53	67,000
1	MASSACHUSETTS	89	23	329	1,102,000
1	NEW HAMPSHIRE	17	3	62	57,000
1	RHODE ISLAND	7	2	33	240,000
1	VERMONT	12	0	48	19,000
2	NEW JERSEY	74	11	168	1,219,000
2	NEW YORK	156	31	418	4,422,000
2	PUERTO RICO	2	1	2	5,000
2	VIRGIN ISLANDS	NR	NR	NR	NR
3	DELAWARE	7	1	23	29,000
3	DIST. OF COL.	2	1	10	277,000
3	MARYLAND	16	2	60	597,000
3	PENNSYLVANIA	138	14	408	1,208,000
3	VIRGINIA	18	4	90	210,000
3	WEST VIRGINIA	9	1	21	9,000
4	ALABAMA	15	1	46	26,000
4	FLORIDA	23	6	88	150,000
4	GEORGIA	19	2	76	100,000
4	KENTUCKY	21	2	59	91,000
4	MISSISSIPPI	10	0	28	9,000
4	NORTH CAROLINA	28	1	86	74,000
4	SOUTH CAROLINA	11	2	33	45,000
4	TENNESSEE	15	4	38	80,000
5	ILLINOIS	91	14	262	831,000
5	INDIANA	60	11	182	466,000
5	MICHIGAN	69	9	247	625,000
5	MINNESOTA	30	3	77	133,000
5	OHIO	90	2	186	101,000
5	WISCONSIN	42	6	166	357,000

- FOOTNOTES:
1. "NR" signifies that data were not reported.
 2. Plants with total average gas productions greater than 200 MM scf/year are considered large sites.
 3. Estimated gas productions are calculated for the time period, 1881 to 1950 as the sum of the reported data for the decennial years (between 1890 and 1950) multiplied by ten to interpolate between decennial years.

TABLE 1. (CONTINUED)

					(3)
EPA REGION	STATE/TERRITORY	NUMBER OF SITES	(2)	NO. GAS DATA PTS.	ESTIMATED
			NUMBER OF LARGE SITES		PRODUCTION OF MANUFACTURED GAS (MM scf)
6	ARKANSAS	9	0	14	3,000
6	LOUISIANA	7	0	9	29,000
6	NEW MEXICO	4	0	9	2,000
6	OKLAHOMA	5	0	5	1,000
6	TEXAS	32	2	56	40,000
7	IOWA	62	4	212	189,000
7	KANSAS	23	0	40	6,000
7	MISSOURI	35	4	116	224,000
7	NEBRASKA	22	2	61	94,000
8	COLORADO	15	1	38	46,000
8	MONTANA	6	0	13	5,000
8	NORTH DAKOTA	7	0	22	14,000
8	SOUTH DAKOTA	11	0	33	13,000
8	UTAH	3	1	7	9,000
8	WYOMING	3	0	6	1,000
9	AMERICAN SAMOA	NR	NR	NR	NR
9	ARIZONA	12	0	30	15,000
9	CALIFORNIA	91	7	188	486,000
9	GUAM	NR	NR	NR	NR
9	HAWAII	2	1	6	31,000
9	NEVADA	6	0	11	3,000
10	ALASKA	NR	NR	NR	NR
10	IDAHO	3	0	5	2,000
10	OREGON	14	1	29	221,000
10	WASHINGTON	18	3	50	172,000
TOTALS:		1502	196	4365	14,486,000

- FOOTNOTES:
1. "NR" signifies that data were not reported.
 2. Plants with total average gas productions greater than 200 MM scf/year are considered large sites.
 3. Estimated gas productions are calculated for the time period, 1881 to 1950 as the sum of the reported data for the decennial years (between 1890 and 1950) multiplied by ten to interpolate between decennial years.

Caveats and uncertainties associated with Table I are listed and explained below.

- The number of identified sites is based solely on the total number of entries reported in Brown's for every tenth year..
- Estimated gas production for 1890-1950 is simply the sum of all reported data (for every tenth year) multiplied by 10 years.

Because the number of sites is based solely on the total number of entries found in every tenth Brown's publication, the total number of sites is probably underestimated. One reason is that not all existing sites or plants may have been identified by Brown's. In addition, other sites may have been identified in some of the annual publications not reviewed in this program. Finally, although there was generally a one-to-one correspondence between reported entries and individual plant sites, a single entry was occasionally reported for a plant or company which had multiple plant sites. The best estimate for the number of separate sites was included in the site tally shown in Table 1. Usually these separate sites were consolidated into a larger plant/company (for which the single was found) and were already counted as individual sites in previous years.

The estimated gas production for 1890-1950 is based on the sum of all reported data for the decennial years and multiplied by 10. This should minimize any bias in extrapolating these data to account for plants or years in which gas was determined to be manufactured but data were not reported. Thus, the reported gas production estimate may be low. However, most instances in which no data were reported involved relatively small plants whose manufactured gas productions probably represent a minor contribution to the total production.

TABLE 2. SUMMARY OF TOWN GAS MANUFACTURING SITES AND PRODUCTIONS FOR LARGE PLANTS (1200 MM cu.ft/yr)

EPA REGION	STATE/ TERRITORY	CITY	COMPANY	(1) GAS PRODUCTION RATE (MM scf/yr)					(2) BY-PRODUCT PRODUCTION RATE				MISCELLANEOUS COMMENTS
				Coal	Water	Oil	Coke Oven	Total	Coke	Tar	Ammonia	Other	
1	CT	Bridgeport	The * G Co		1468			1468		1320			
1	CT	Danbury	* Bethel G&E Co		141	457		370	11	118			
1	CT	Hartford	* City G Co	383	743			676		614	143		
1	CT	New Britain	* G Co	269	70			279					
1	CT	New London	* G Co		257			257		118			
1	CT	Stamford	* G Co	366	263			385		812			
1	CT	Waterbury	* G Co	396	406			538		341	145		
1	CT	Bridgeport	Citizen's G Co			200		200					
1	CT	Derby	* G Co	157	283			314		554			
1	CT	New Haven	* G Co	729	498			697		67			
1	CT	Hartford	CT L&P Co		1629			1629	106				
1	ME	Portland	* G Co	244	463			475					
1	ME	Peak Island	Casco Bay L&V Co	975				975					
1	MA	Arlington	* G Co	171	311			289					
1	MA	Boston	Bay State G Co		513			513					
1	MA	Boston	* G Co	1200	4425			3504		2264			1373 Tons of sulfur
1	MA	Boston	Charleston G Co		257			257	22	463	158		
1	MA	Boston	* G Co	231	400			522	18	854	55		
1	MA	Brookline	* G Co	380				380					
1	MA	Cambridge	* G Co	795	200	2429		1087	90	1945	486		
1	MA	Fall River	* G Works	475	319			543	26	675	171		12000 Gal of light oil
1	MA	Haverhill	* G Co	191	572			436		484			
1	MA	Holyoke	* G Works	96	244			229	18	193			
1	MA	Lawrence	* G Co	309	303			460	25	691	941		
1	MA	Lowell	* G Co	513	206			630	35	701	191		
1	MA	Lynn	* G & E Co	504	821		484	850	12	1031	244		
1	MA	Malden	* & Melrose G Co	399	1226			1099	29	2176	469		
1	MA	New Bedford	* G Co	83	759			561		1320			
1	MA	Pittsfield	* Coal G Co	28	140			116		140			

FOOTNOTES: * Largest producer in state

* Stands for city on same line

1. Individual gas production for each type of gas is the total production of that type of gas averaged over the years for which that specific type gas was manufactured. The total gas production is the sum of all manufactured gas averaged over the decennial years for which any gas was produced.

2. By-product units are 1000 tons coke, 1000 gallons tar, 1000 pounds ammonia.

TABLE 2. (CONTINUED)

EPA REGION	STATE/ TERRITORY	CITY	COMPANY	(1)					(2)				MISCELLANEOUS COMMENTS	
				GAS PRODUCTION RATE (MM scf/yr)					BY-PRODUCT PRODUCTION RATE					
				Coal	Water	Oil	Coke	Oven	Total	Coke	Tar	Ammonia	Other	
1	MA	Boston	Rosbury GL Co	283					283					
1	MA	Springfield	* GL Co	771	831			1254	1425		1337	37		
1	MA	Taughton	* GL Co	181	248				305	12	525	30		
1	MA	Worcester	* GL Co	349	1832				1588		2292			
1	MA	Framingham	* GF & P Co	67				588	238					
1	MA	Braintree	Old Colony & Co		221				221		44			
1	NH	Manchester	People's GL Co		348	29			345		458	168		
1	NH	Nashua	* Light, H&P Co	78	318				282	12	227			
1	NH	Manchester	Public Serv. of NH	18	361				366	1	9			
1	RI	Pawtucket	* G Co	359	671				838	5	1328			
1	RI	Providence	* G Co	876	684			3571	2376		2371	317	4688	Millions lbs sulfate
1	VT	Burlington	* GL Co		129				129		88			
2	NJ	Atlantic City	* G & W Co		816				816		1748			
2	NJ	Camden	* GL Co	548				3165	2115					
2	NJ	Elizabeth	* GL Co		1863				1863		1381			
2	NJ	Hackensack	* GL Co	78	592				418					
2	NJ	Hoboken	Hudson Co GL Co		3327			6588	3871					
2	NJ	Long Branch	* GL Co		982				982		1383			
2	NJ	Newark	* GL Co	6783					6783					
2	NJ	New Brunswick	GL Co of *		365				365					
2	NJ	Paterson	* GL Co		2877				2877					
2	NJ	Glassboro	Pittman, Glassboro & Clayton		374				374		395			
2	NJ	Atlantic Highland	Standard & Co		285				285		182			
2	NY	Albany	Municipal & Co		587				587		2847			
2	NY	Brooklyn	Fulton Municipal & C	888	15777			8488	16848	583	24258		18	Million lbs sulfate
													548	Thousand lbs naphthalene
2	NY	Brooklyn	Nassau GL Co	285					285					
2	NY	Brooklyn	People's GL Co	288					288					
2	NY	Brooklyn	Williamsburgh GL Co	388					388					
2	NY	Buffalo	* GL Co	478	268				535	23	36			

FOOTNOTES: * Largest producer in state

* Stands for city on same line

1. Individual gas production for each type of gas is the total production of that type of gas averaged over the years for which that specific type gas was manufactured.

The total gas production is the sum of all manufactured gas averaged over the decennial years for which any gas was produced.

2. By-product units are 1000 tons coke, 1000 gallons tar, 1000 pounds ammonia.

TABLE 2. (CONTINUED)

EPA REGION	STATE/ TERRITORY	CITY	COMPANY	(1) GAS PRODUCTION RATE (MM scf/yr)					(2) BY-PRODUCT PRODUCTION RATE				MISCELLANEOUS COMMENTS	
				Coal	Water	Oil	Coke	Oven	Total	Coke	Tar	Ammonia		Other
2	NY	Geneva	* GL Co	258					258	133	1813			
2	NY	Gravesend	Coney Island GF & L Co		1415				1415		2261			
2	NY	Hempstead	* GL Co	4	988				742		832			
2	NY	Mt. Vernon	East Chester G Co	84	1368				1041		433			
2	NY	New York City	Central GL Co	568	2203				2213	52	882	153	848100	lbs of ammonia sulfate &
													117640	lbs cyanogen
													50000	lbs NH3 liquor
2	NY	New York City	Consolid. G Co	8090	25055			9412	23886		4600			
2	NY	New York City	Equitable GL Co		1250				1250					
2	NY	New York City	NY Mutual GL Co		1520				1520					
2	NY	New York City	Northern GL Co	953					953					
2	NY	New York City	Standard GL Co		2345				2345					
2	NY	Poughkeepsie	* G Co		392				392		1038			
2	NY	Rochester	Citizen's G Co	1203	848		4496		2628	200	3984			
2	NY	Stapleton	Richmond City GL Co		548				548		761			
2	NY	Syracuse	* GL Co	1297	282				947	43	1581	951		
2	NY	Troy	* G Co		267				267					
2	NY	Utica	Equitable G & E Co	2010	623				1189	131	2151		3852000	lbs sulfate
2	NY	Yonkers	Municipal G Co		212				212					
2	NY	Bay Shore	Suffolk G & EL Co		1465				1465					
2	NY	Brooklyn	Kings County Lt Co		2245				2245		2874			
2	NY	Far Rockaway	Queen's Borough G&E Co		2221				2221		2798			
2	NY	Freeport	Nassau, Suffolk Light Co		281				281					
2	NY	New York City	New Amsterdam G Co		4272				4272		1457			
2	NY	Astoria	* LH & P Co	4153	13315				17467	254	16220	565	5078140	lbs of ammonium sulfate
2	NY	New York City	Bronx G & E Co		230				230					
2	NY	Troy	Hudson Valley Fuel Co		1899		5273		7172		5398		11519130	lbs of ammonium sulfate
2	PR	San Juan	PR G & Coke Co		435				435		534			
2	VI													
3	DE	Wilmington	* Coal G Co	137	600				534		874			

FOOTNOTES: * Largest producer in state

* Stands for city on same line

1. Individual gas production for each type of gas is the total production of that type of gas averaged over the years for which that specific type gas was manufactured. The total gas production is the sum of all manufactured gas averaged over the decennial years for which any gas was produced.

2. By-product units are 1000 tons coke, 1000 gallons tar, 1000 pounds ammonia.

TABLE 2. (CONTINUED)

EPA REGION	STATE/ TERRITORY	CITY	COMPANY	(1) GAS PRODUCTION RATE (MM scf/yr)					(2) BY-PRODUCT PRODUCTION RATE				MISCELLANEOUS COMMENTS	
				Coal	Water	Oil	Coke	Oven	Total	Coke	Tar	Ammonia		Other
3	DC	Washington DC	* BL Co		4589				4589		3074			
3	MD	Baltimore	The Consolid. & Co of *		7365				9482					
3	MD	Sparrow's Point	Maryland Steel Co					1000	1000					
3	PA	Allentown	* B Co		620				620		200			
3	PA	Chester	* B Co	40	10			721	500					
3	PA	Clearfield	* BL Co	32	265			525	243		32			
3	PA	Easton	* B Co	20	369				311					
3	PA	Lancaster	* BL & Fuel Co	50	417				356					
3	PA	Philadelphia	* B Works	4356	10310				10962	54	9640	326		
3	PA	Philadelphia	Northern Liberties B	150	5664				2360	65	1191	483		
3	PA	Pittsburgh	Consolidated B Co		207				207					
3	PA	Pittsburgh	* B Co		330				330					
3	PA	Reading	Consumer's B Co		300				300			952		
3	PA	Scranton	* B & M Co		941				941			371		
3	PA	Wilkes Barre	* B Co		365				365					
3	PA	York	* B Co		350				350			209		
3	PA	Hyde Park	* Nat. B Co		400				400					
3	VA	Norfolk	City Gas L of *	92	1002				825			1146		
3	VA	Portsmouth	* B Co	56	310				234			36		
3	VA	Richmond	* B Works	179	1293				1026			510		
3	VA	Roanoke	* B & M Co	211	106				325	10		414		
3	WV	Wheeling	City B Works	243					243					
4	AL	Birmingham	* B&L P Co	124	590				271					
4	FL	Jacksonville	* B&E Co	294	291				375	544	491	295		
4	FL	Tampa	* B Co		420				420		543			
4	FL	Miami	* B Co		696	40			437					
4	FL	St Petersburg	* Municipal B Plant		374				374		90			
4	FL	Miami Beach	B Co of *		801				801					
4	FL	West Palm Beach	FL Public Utility Co		325				325		50			
4	GA	Atlanta	* BL Co	310	1155				804		1133	133		

FOOTNOTES: * Largest producer in state

* Stands for city on same line

1. Individual gas production for each type of gas is the total production of that type of gas averaged over the years for which that specific type gas was manufactured. The total gas production is the sum of all manufactured gas averaged over the decennial years for which any gas was produced.

2. By-product units are 1000 tons coke, 1000 gallons tar, 1000 pounds ammonia.

TABLE 2. (CONTINUED)

EPA REGION	STATE/ TERRITORY	CITY	COMPANY	(1) GAS PRODUCTION RATE (MM scf/yr)					(2) BY-PRODUCT PRODUCTION RATE				MISCELLANEOUS COMMENTS
				Coal	Water	Oil	Coke Oven	Total	Coke	Tar	Ammonia	Other	
4	GA	Augusta	* GL Co	25	303			257		62			
4	GA	Savannah	Mutual GL Co		340			340		665			
4	KY	Louisville	Citizen's GL Co		475			475					
4	KY	Louisville	* B Co		1386			1386					
4	MS	Biloxi *	Gulf Coast G Co	59	74			84	4	81			
4	NC	Charlotte	* GL Co	185	161			211		234			
4	SC	Charleston	* L & P Co	111	484			306		110			
4	SC	Columbia	* GL Co	101	291			225	7	289			
4	TN	Jackson	Citizen's GL Co	38	712			216					
4	TN	Knoxville	* GL Co	162	154			227		276			
4	TN	Memphis	Equitable GL Co		496			496					
4	TN	Nashville	* GL Co	281	300			384	20	470	96		
(See page 15a for Indiana)													
5	IL	Aurora	* GL Co		221	190		284					
5	IL	Bloomington	Citizen's GL & M Co	55	277			249		166			
5	IL	Chicago	* GL & Coke Co		1500			1500					
5	IL	Chicago	Consumer's G Co		750			750					
5	IL	Chicago	People's GL & Coke Co		11276		8707	13453					
5	IL	Evanston	Northwestern GL & Coke Co		1754			1754					
5	IL	Moline	The People's L & Fuel	26	573			354		292			
5	IL	Peoria	* GL & Coke Co	219	197			293		457	144		
5	IL	Rockford	* GL & Coke Co	180	120		601	380	73	1200	1787		
5	IL	Springfield	* GL Co	78	210			257					
5	IL	Chicago	Ogden B Co		702			702					
5	IL	Oak Park	Cicero G Co		530			530					
5	IL	Maukegan	M. Shore Con G Co		324			324					
5	IL	Blue Island	Pub. Serv. Co of IL		289			289		258			
5	MI	Battle Creek	* GL Co	300	146		731	475	10	494	390		
5	MI	Detroit	* GL Co	1562	3064	3	3010	4164		315			
5	MI	Grand Rapids	* GL Co	798	362			871		1595	292		
5	MI	Jackson	* GL Co	551	433		506	731		656	210		

FOOTNOTES: * Largest producer in state

* Stands for city on same line

1. Individual gas production for each type of gas is the total production of that type of gas averaged over the years for which that specific type gas was manufactured. The total gas production is the sum of all manufactured gas averaged over the decennial years for which any gas was produced.

2. By-product units are 1000 tons coke, 1000 gallons tar, 1000 pounds ammonia.

EPA REGION	STATE/ TERRI- TORY	CITY	COMPANY	GAS PRODUCTION RATE (MM scf/yr)					Total	BY-PRODUCT PRODUCTION RATE		
				Coal	Water	Oil	Coke	Oven		Coke	Tar	Ammonia
5	IN	Anderson	"Natural Gas & Oil		289				289			
5	IN	Evansville	"GEL Co	113	169				207		175	
5	IN	Fort Wayne	"GL Co		315		1,118		687		1,245	
5	IN	Indiana- polis	"ELG & Heat Co.		459		2,807		1,581		1,828	
5	IN	South Bend	"GL Co.		772				772		967	
5	IN	Terre Haute	"Citizen's G & Fuel Co.	120	164		1,310		417			
5	IN	Marion	"Coal G Co.		1,238				1,238			
5	IN	Hammond	No. Ind. G & E Co.	40	948				958	3	171	
5	IN	Indiana- polis	Citizens's G. Co.		3,082		6,203		7,744		5,198	
5	IN	Muncie	Central In. G. Co.	613	251				738			
5	IN	Terre Haute	Indiana G & Chem Corp.				1,252		1,252	116	786	629

TABLE 2. (CONTINUED)

EPA REGION	STATE/ TERRITORY	CITY	COMPANY	(1) GAS PRODUCTION RATE (MM scf/yr)					(2) BY-PRODUCT PRODUCTION RATE				MISCELLANEOUS COMMENTS	
				Coal	Water	Oil	Coke	Oven	Total	Coke	Tar	Ammonia		Other
5	MI	Lansing	* GL Co	269	185				380	47	947	199		
5	MI	Pontiac	Medbury G Works	154	588	325			575	21	519	159		
5	MI	Flint	Consumer's P Co	1813	221			1850	2053		1678		3600	lbs. of ammonium sulfate
5	MI	Kalamazoo	Consumer's P Co	519	72			567	615	29	600	210		
5	MI	Zilwaukee	Consumer's P Co	801	206				1007	46		384		
5	MN	Minneapolis	* GL Co	548	2021				2203		2046			
5	MN	St. Paul	* GL Co	839	314				691		53			
5	MN	Duluth	Zenith Furnace Co					413	413					
5	OH	Cincinnati	* GL & Coke Co	1050					1050					
5	OH	Cleveland	* GL & Coke Co	913	70	488			825					
5	WI	Beloit	GL & Coke co	24	350				264		370			
5	WI	Madison	* GL & Coke Co		402				402		302			
5	WI	Milwaukee	* GL Co	2445	1742				2653					
5	WI	Oshkosh	* GL Co	61	269				220		183			
5	WI	Racine	WI G&E Co	1080	338				1185	111	2209	632		
5	WI	Sheboygan	* National G Co	59	133			435	204	24	290			
6	AR	Little Rock *	Pulaski GL Co	77					77					
6	OK	Chickasha *	* G & E Co	10	15				24					
6	TX	Houston	* GL Co	30	553				378		144			
6	TX	San Antonio	* G Co	221					221					
(See page 16a for Louisiana and New Mexico)														
7	IA	Cedar Rapids	* GL Co	40	282				201		252			
7	IA	Des Moines	Capital City GL Co		563				563		002			
7	IA	Sioux City	* G Co		552				552					
7	IA	Waterloo	* G & EL Co	90	550	5			474					
7	KS	Topeka *	The Excelsior Coke &	34					34					
7	KS	Kansas City *	Wyandotte G Co		34				34					
7	MO	Kansas City	* L & Coke Co		473				473					
7	MO	St. Joseph	* G & Mfg Co	272					272					
7	MO	St. Louis	Laclede G L Co	1273	2562			1776	2591	337	4355	2709	821	

FOOTNOTES: * Largest producer in state

* Stands for city on same line

- Individual gas production for each type of gas is the total production of that type of gas averaged over the years for which that specific type gas was manufactured. The total gas production is the sum of all manufactured gas averaged over the decennial years for which any gas was produced.
- By-product units are 1000 tons coke, 1000 gallons tar, 1000 pounds ammonia.

EPA REGION	STATE/ TERRI- TORY	CITY	COMPANY	GAS PRODUCTION RATE (MM scf/yr)					Total	BY-PRODUCT PRODUCTION RATE		
				Coal	Water	Oil	Coke	Oven		Coke	Tar	Ammonia
6	LA	New Orleans	"GL Co		895				895			
6	NM	Albuquerque	"G Co	26					26		71	

TABLE 2. (CONTINUED)

EPA REGION	STATE/ TERRITORY	CITY	COMPANY	(1) GAS PRODUCTION RATE (MM scf/yr)					(2) BY-PRODUCT PRODUCTION RATE				MISCELLANEOUS COMMENTS	
				Coal	Water	Oil	Coke	Oven	Total	Coke	Tar	Ammonia		Other
7	MO	Webster	St. Louis Co G Co		933				933		678		77184	Gal of light oil
7	NB	Lincoln	" G Co		229				229					
7	NB	Omaha	" G Mfg Co		1209				1209		525			
8	CO	Denver	The " G Co	644	393				840					
8	MT	Great Falls *	" EL & G Co	17	47				64					
8	ND	Fargo *	" G & E Co	114	45				133	9	332			
8	SD	Sioux Falls *	" GL Co		89				89					
8	UT	Salt Lake City	" G Co	172	86				215					
8	WY	Laramie	" G Co		18				18					
9	AS													
9	AZ	Phoenix *	" Illum G&E Co			151			151				229	Barrels lampblack
9	CA	Fresno	" G&E Co	60		537			298					
9	CA	Los Angeles	Lighting Co	280				2520	2850					
9	CA	Oakland	" GL Co	150		3335			2539					
9	CA	Sacramento	Capital G Co	50		753			472					
9	CA	San Francisco	Equitable GL Co	365					365					
9	CA	Los Angeles	Domestic G Co of "			780			780					
9	CA	Redwood	Pacific G&E Co, "			254			254					
9	GU													
9	HA	Honolulu	" LG Co			1003			1003					
9	NV	Reno *	"Water, Land & Light Co		87	52			61				450	Tons lampblack
10	ID	Boise *	" GL Co	46					46		40			
10	OR	Portland	" G Co	60		4337			3624	11	1984		264	tons sulfur and naphthalene
10	WA	Seattle	" GL Co	315	754	2750		661	1599		1497	520		
10	WA	Takoma	L & W Co	59	582				449		332			

FOOTNOTES: * Largest producer in state

" Stands for city on same line

1. Individual gas production for each type of gas is the total production of that type of gas averaged over the years for which that specific type gas was manufactured. The total gas production is the sum of all manufactured gas averaged over the decennial years for which any gas was produced.

2. By-product units are 1000 tons coke, 1000 gallons tar, 1000 pounds ammonia.

Production From Largest Plants

Table 2 provides an intermediate summary of the detailed data presented in Table B-1, showing average annual values for gas and by-product production rates for plants with total average gas productions greater than 200 million cubic feet/year. For states or territories which do not have plants with productions above this cut-off, data for the plant with the largest production are presented in this table and marked with an asterisk. The yearly gas production rates for each type of gas manufactured were calculated by averaging the quantity produced only over the years for which that type of gas was manufactured. Total gas production rates were determined by adding the amount of all types of gas produced over a decennial year, and calculating the average production over all decennial years in which any gas was produced. For example, Denver, Colorado, manufactured coal gas over four decennial years (1890, 1900, 1910, and 1920) and water gas over two decennial years (1910 and 1920). Therefore, coal gas production is averaged over four years and water gas over only two years. Average total gas production is the sum of all gas produced, both coal and water, divided by 4, the number of decennial years during which any type of gas was produced. The production rates for each type of gas and by-product are presented in Table 2. Uncertainties described later for Table B-1 also apply to Table 2.

Detailed Plant Data

Table B-1 in Appendix B, which represents the detailed product of this study, shows data reported for each plant in each decennial year as well as the average production rates for gas and by-products. The legend for the table provides a key to abbreviations and units for the by-product data. Several caveats and uncertainties to keep in mind while using this table are:

- The reported data are as factual as possible. A minimum amount of interpretation was involved in transposition of data from Brown's to Table B-1. However, there was some subjectiveness in determining the gas type in some cases as explained in Appendix B.
- The data entries in Table B-1 include some coke oven-based gas associated with plants which produced conventional manufactured gas (coal, water, oil) either while producing coke oven gas or in preceding years. These entries are under the column marked coke.
- By-product production data were only available after 1920 and were not as abundant as gas production data. This was especially true for ammonia and "other" by-products. Average production rates were not calculated for ammonia or "other" by-products due to the scarcity of these data.
- Each city entry represents an individual manufactured gas site in almost all cases. Occasionally, an individual city entry had multiple sites, especially for larger cities and in later years where consolidation was a common occurrence. In these cases, if the separate plant locations were reported, they are shown in the MISCELLANEOUS INFORMATION column.
- Data are shown in Table B-1 only for years in which it could be ascertained that gas was manufactured (as compared to being purchased and re-sold) by the plant (i.e., only for by-product producing years).

In cases in which gas was reported to be purchased, data were not compiled because the source and type of the purchased gas was usually not specified. The purchased gas may have been manufactured at another facility and, thereby, already considered. Inclusion of this purchased gas would have resulted in double counting. It was assumed that purchased gas did not require further purification which would produce by-products. Another possibility is that the purchased gas was non-manufactured gas, which is not being considered in this study. Production rates were not estimated

for years in which no information was found (indicated by "0" in status column). When two consecutive "0"s were determined (i.e. no information reported for two consecutive decennial years) it was usually assumed that the plant no longer manufactured gas.

The detailed explanations for each type of data entry and assumptions used in compiling the data are presented for each column heading in Appendix B.

Growth and Location of Manufactured Gas Industry

As shown in Table 3, the number of manufactured gas sites decreased markedly from 1890 to 1950. However, during this same time period, actual production of manufactured gas increased dramatically. This drop in number of sites accompanied by increased gas production was probably due to the shut down of some plants and consolidation of small facilities into larger ones.

Figure 2 is a reproduction of a map found in the 1890 edition of Brown's which shows towns containing gas manufacturing plants in the U.S. for 1890. It is not intended that individual names on the map be legible. The density of names in various areas is an indication of where the most sites were located. Figures 3 through 12 present maps for each of the 10 EPA regions based on dissection of the main map shown in Figure 2. The intent of these maps is to provide a perspective on the wide distribution of plants across the country and to show areas of highest site location.

TABLE 3. HISTORY OF NUMBER OF SITES AND PRODUCTION
OF TOWN GAS FROM 1890 TO 1950

DECENNIAL YEAR	(1) NUMBER OF SITES	(2) PRODUCTION (MM scf)
1890	989	24,000
1900	912	59,000
1910	942	132,000
1920	918	283,000
1930	737	365,000
1940	381	261,000
1950	194	331,000

- FOOTNOTES:
1. Only sites marked with an asterisk or a "C" in Table B-1 were counted.
 2. The production presented here is the sum of actual production listed in Table B-1.

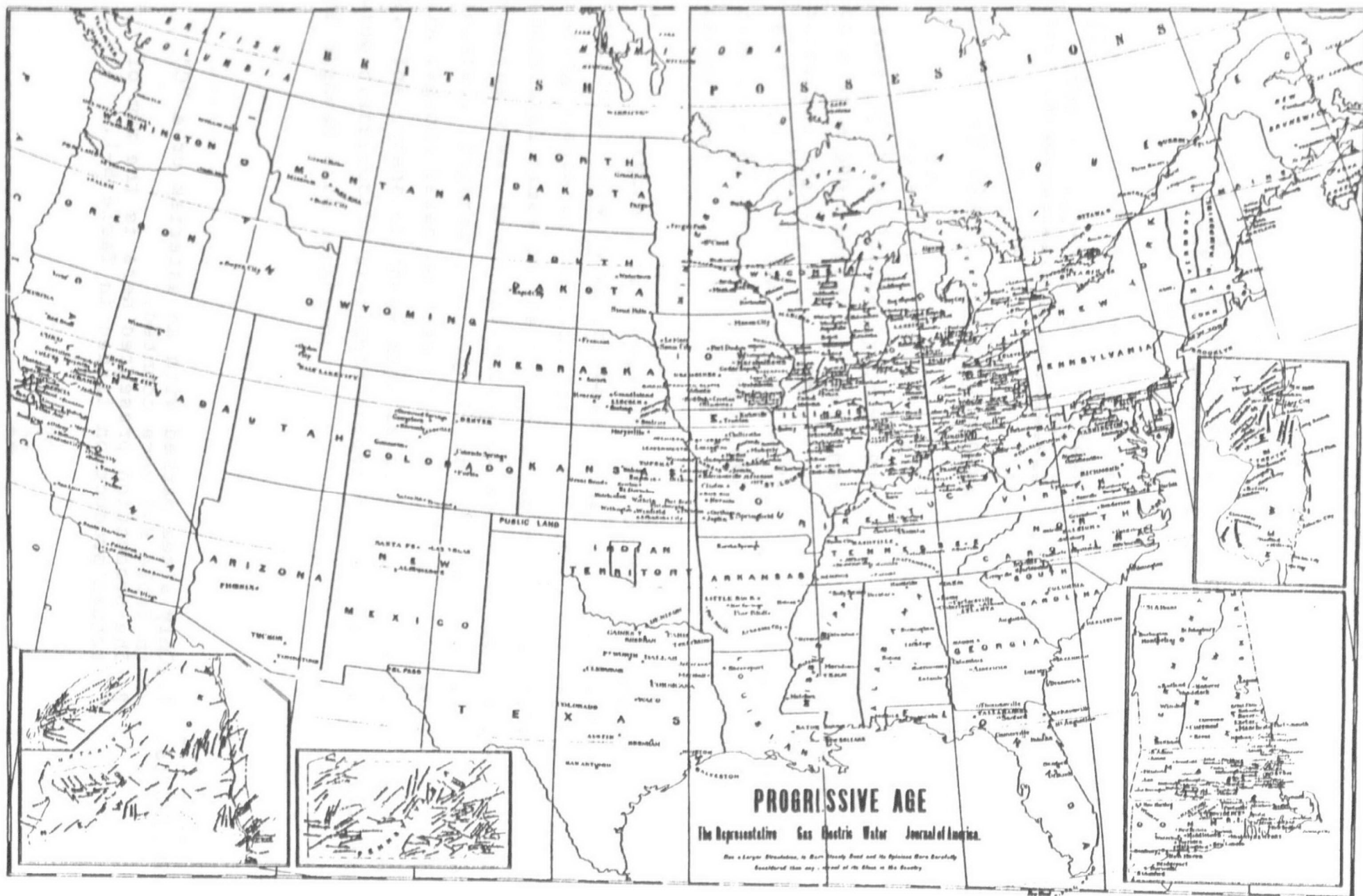


Figure 2. Map of All Gas Manufacturing Sites in the U.S. (1890)



Figure 3. Map of Gas Manufacturing Plants in EPA Region 1 (1890)

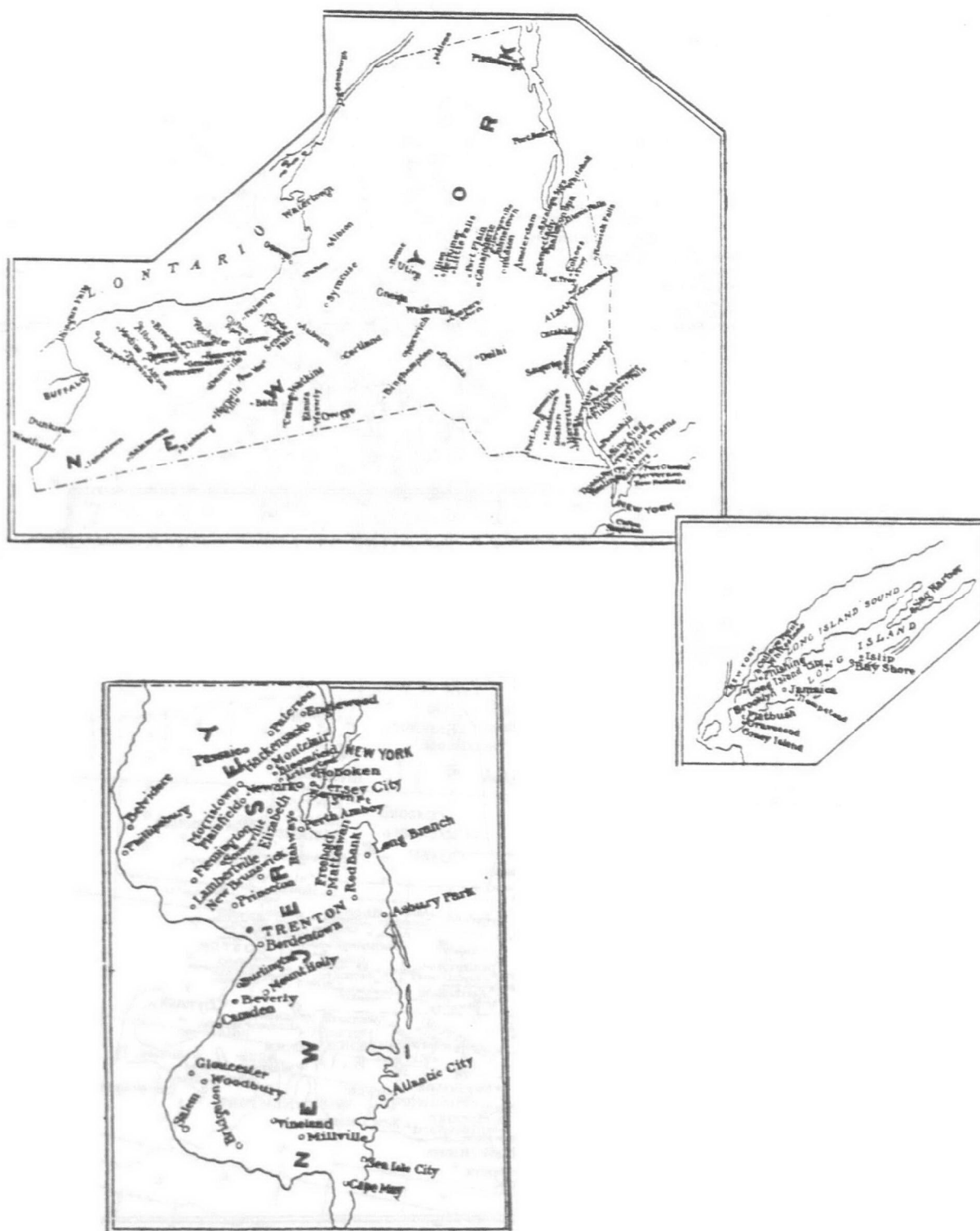


Figure 4. Map of Gas Manufacturing Plants in EPA Region 2 (189)



Figure 6. Map of Gas Manufacturing Plants in EPA Region 4 (1890)



Figure 7. Map of Gas Manufacturing Plants in EPA Region 5 (1890)

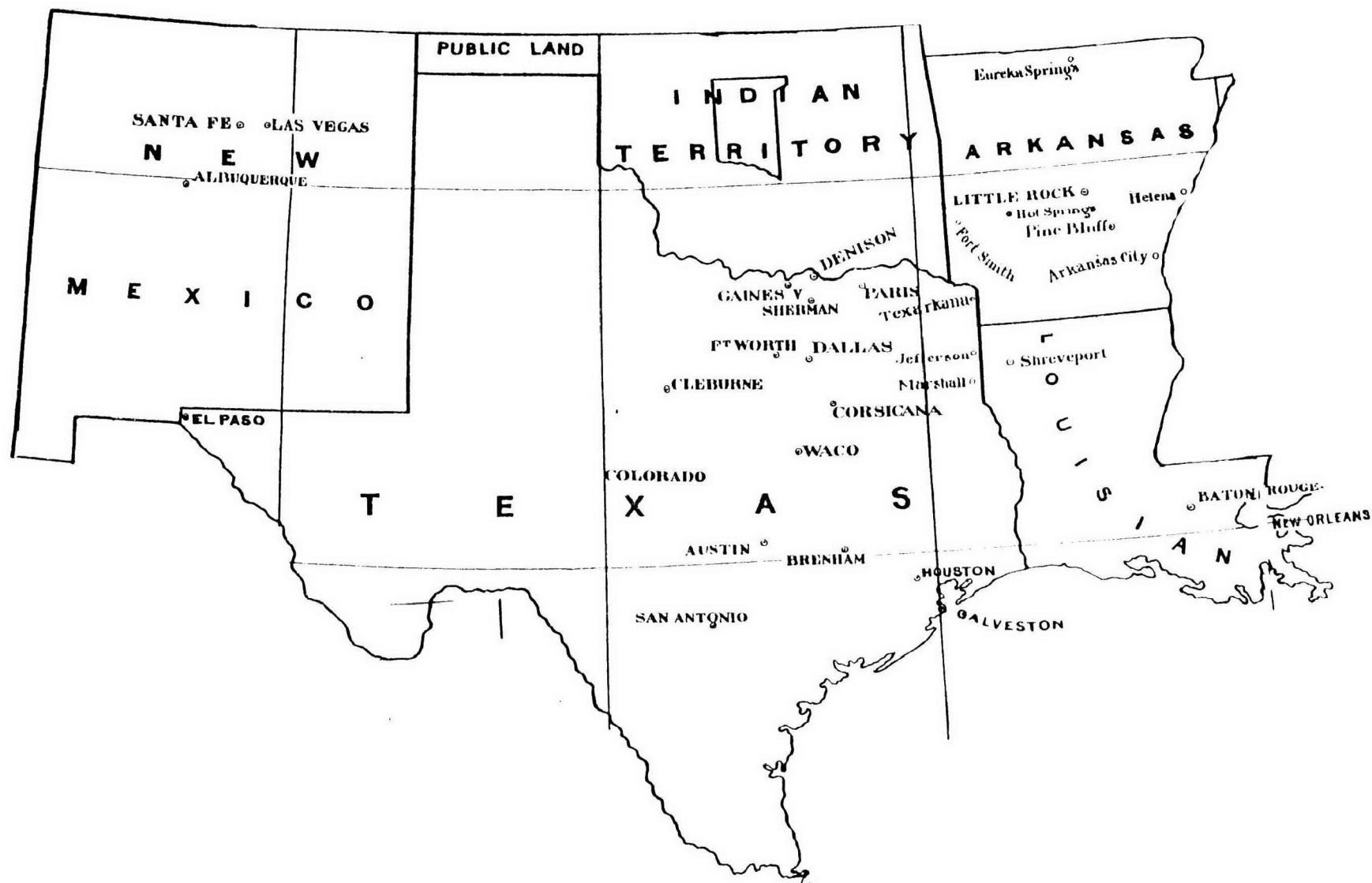


Figure 8. Map of Gas Manufacturing Plants in EPA Region 6 (1980)



Figure 9. Map of Gas Manufacturing Plants in EPA Region 7 (1890)

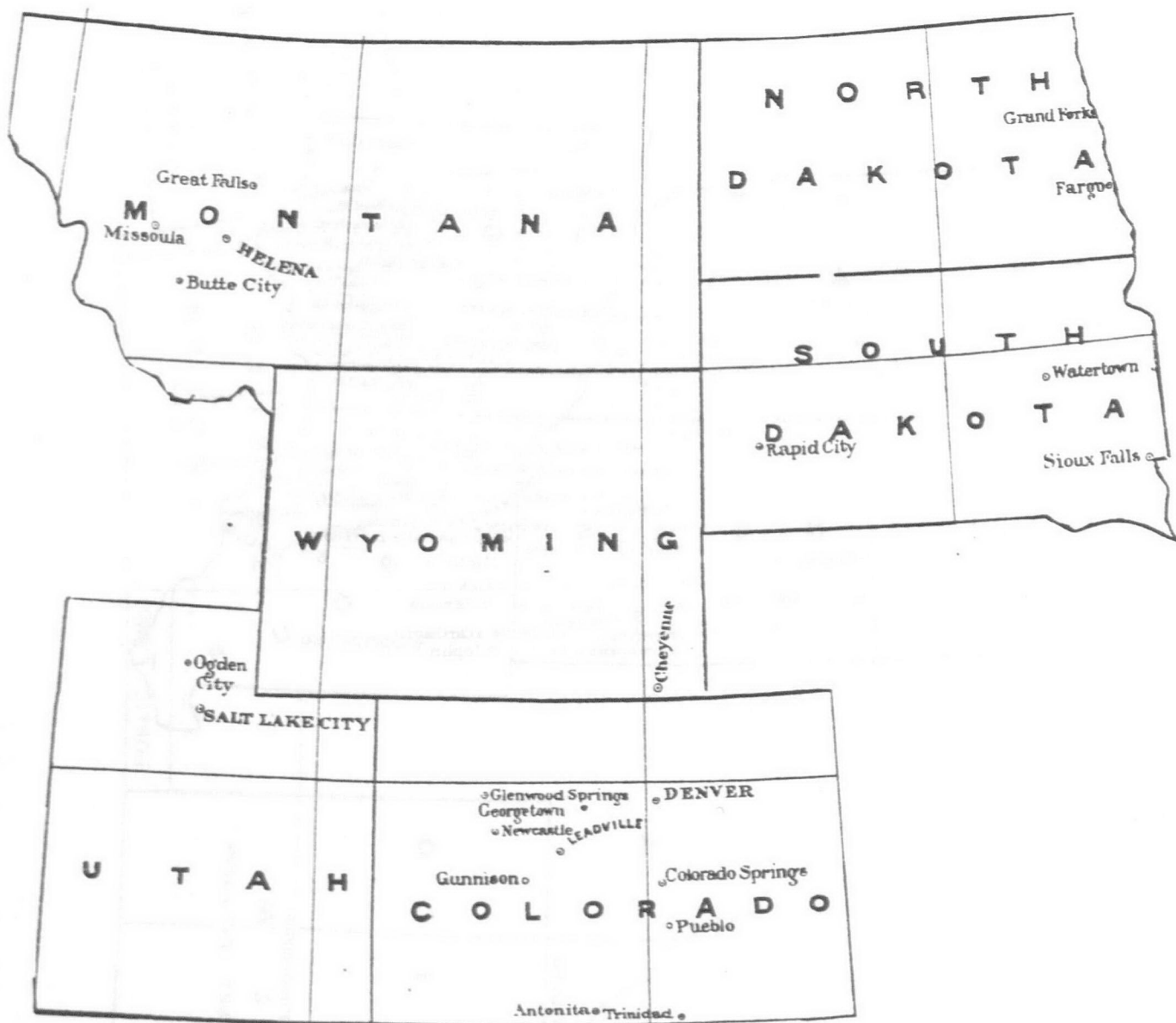


Figure 10. Map of Gas Manufacturing Plants in EPA Region 8 (1890)



Figure 11. Map of Gas Manufacturing Plants in EPA Region 9 (1890)



Figure 12. Map of Gas Manufacturing Plants in EPA Region 10 (189)

ESTIMATION OF TAR PRODUCTION

This part presents a rough estimate for the total tar produced by the manufactured gas industry in the U.S. between the years 1881 and 1950 and summarizes the calculations and assumptions used in obtaining this estimate. This time period covers the years for which the compiled data can be most reliably used. The total amount of tar produced by U.S. manufactured gas plants up to the year 1950 was also estimated. The first year in which gas was manufactured in the U.S. was assumed to be 1820 since the first gas manufacturing facility in the United States (believed to be in Baltimore, MD) began producing gas circa 1820. This second estimate was based on extending the tar production estimate from the period 1881 to 1950 to cover the years 1820 to 1950, thereby representing a considerable extrapolation. The amount of tar produced after 1950 was not estimated because of the large gas production rate in 1950 and the significant uncertainty concerning how quickly this production rate fell off. In addition, the proportion of tar sold as a by-product or disposed of in an environmentally acceptable manner probably increased following 1950. Thus, in the absence of more reliable data, tar produced after 1950 was not estimated in this report. It should be noted again that the reported estimate does not include tar produced from coke-oven plants. However, it is recognized that coke-oven plants did produce tars and that some of these may have been disposed of via the land path.

Table 4 presents information found in Table 1 along with the total estimated tar production for the time period 1881-1950. Table 5 presents these tar productions by state/territory in descending order based on quantity. These estimated tar production values (as explained later in the section "Estimation of Tar Production") should be viewed with the following caveat in mind:

TABLE 4. SUMMARY OF TOWN GAS AND TAR PRODUCTION BY STATE (1881-1958)

EPA REGION	STATE/TERRITORY	NUMBER OF SITES	NUMBER OF LARGE SITES	NO. GAS DATA PTS.	(3) ESTIMATED PRODUCTION OF MANUFACTURED GAS (MM scf)	(4) ESTIMATED TAR PRODUCTION (M GAL)
1	CONNECTICUT	25	11	106	331,000	242,000
1	MAINE	16	2	53	67,000	49,000
1	MASSACHUSETTS	89	23	329	1,182,000	884,000
1	NEW HAMPSHIRE	17	3	62	57,000	42,000
1	RHODE ISLAND	7	2	33	240,000	175,000
1	VERMONT	12	0	48	19,000	14,000
2	NEW JERSEY	74	11	168	1,219,000	890,000
2	NEW YORK	156	31	418	4,422,000	3,228,000
2	PUERTO RICO	2	1	2	5,000	4,000
2	VIRGIN ISLANDS	NR	NR	NR	NR	NR
3	DELAWARE	7	1	23	29,000	21,000
3	DIST. OF COL.	2	1	10	277,000	202,000
3	MARYLAND	16	2	60	597,000	436,000
3	PENNSYLVANIA	138	14	408	1,288,000	882,000
3	VIRGINIA	18	4	90	210,000	153,000
3	WEST VIRGINIA	9	1	21	9,000	7,000
4	ALABAMA	15	1	46	25,000	19,000
4	FLORIDA	23	6	88	150,000	110,000
4	GEORGIA	19	2	76	100,000	73,000
4	KENTUCKY	21	2	59	91,000	66,000
4	MISSISSIPPI	10	0	28	9,000	7,000
4	NORTH CAROLINA	28	1	86	74,000	54,000
4	SOUTH CAROLINA	11	2	33	45,000	33,000
4	TENNESSEE	15	4	38	80,000	58,000
5	ILLINOIS	91	14	262	831,000	607,000
5	INDIANA	60	11	182	466,000	340,000
5	MICHIGAN	69	9	247	625,000	456,000
5	MINNESOTA	30	3	77	133,000	97,000
5	OHIO	90	2	186	181,000	74,000
5	WISCONSIN	42	6	166	357,000	261,000

- FOOTNOTES:
1. "NR" signifies that data were not reported.
 2. Plants with total average gas productions greater than 200 million standard cubic feet (MM scf) per year are considered large sites.
 3. Estimated gas productions are calculated for the time period, 1881 to 1958 as the sum of the reported data for the decennial years (between 1890 and 1958) multiplied by ten to interpolate between decennial years.
 4. The estimated tar production are obtained by multiplying the corresponding estimated manufactured gas productions shown in the previous column by the constant tar production factor of 730 gallons/MM scf.

TABLE 4. (CONTINUED)

EPA REGION	STATE/TERRITORY	NUMBER OF SITES	(2)		(3)		(4)
			NUMBER OF LARGE SITES	NO. GAS DATA PTS.	ESTIMATED PRODUCTION OF MANUFACTURED GAS (MM scf)	ESTIMATED TAR PRODUCTION (M GAL)	
6	ARKANSAS	9	0	14	3,000	2,000	
6	LOUISIANA	7	0	9	29,000	21,000	
6	NEW MEXICO	4	0	9	2,000	1,000	
6	OKLAHOMA	5	0	5	1,000	1,000	
6	TEXAS	32	2	56	40,000	29,000	
7	IOWA	62	4	212	189,000	138,000	
7	KANSAS	23	0	40	6,000	4,000	
7	MISSOURI	35	4	116	224,000	164,000	
7	NEBRASKA	22	2	61	94,000	69,000	
8	COLORADO	15	1	38	46,000	34,000	
8	MONTANA	6	0	13	5,000	4,000	
8	NORTH DAKOTA	7	0	22	14,000	10,000	
8	SOUTH DAKOTA	11	0	33	13,000	9,000	
8	UTAH	3	1	7	9,000	7,000	
8	WYOMING	3	0	6	1,000	1,000	
9	AMERICAN SAMOA	NR	NR	NR	NR	NR	
9	ARIZONA	12	0	30	15,000	11,000	
9	CALIFORNIA	91	7	188	486,000	355,000	
9	GUAM	NR	NR	NR	NR	NR	
9	HAWAII	2	1	6	31,000	23,000	
9	NEVADA	6	0	11	3,000	2,000	
10	ALASKA	NR	NR	NR	NR	NR	
10	IDAHO	3	0	5	2,000	1,000	
10	OREGON	14	1	29	221,000	161,000	
10	WASHINGTON	18	3	50	172,000	126,000	
TOTALS:		1502	196	4365	14,486,000	10,577,000	

FOOTNOTES: 1. "NR" signifies that data were not reported.

2. Plants with total average gas productions greater than 200 million standard cubic feet (MM scf) per year are considered large sites.

3. Estimated gas productions are calculated for the time period, 1881 to 1950 as the sum of the reported data for the decennial years (between 1890 and 1950) multiplied by ten to interpolate between decennial years.

4. The estimated tar production are obtained by multiplying the corresponding estimated manufactured gas productions shown in the previous column by the constant tar production factor of 730 gallons/MM scf.

TABLE 5. RANK OF U.S. STATES/TERRITORIES ACCORDING TO ESTIMATED
TAR PRODUCTION FOR THE TIME PERIOD, 1881 TO 1950

RANK	STATE/ TERRITORY	EPA REGION	ESTIMATED TAR PRODUCTION (M GAL)
			(1)
1	NEW YORK	2	2,825,000
2	NEW JERSEY	2	890,000
3	PENNSYLVANIA	3	827,000
4	MASSACHUSETTS	1	805,000
5	MICHIGAN	5	456,000
6	ILLINOIS	5	452,000
7	CALIFORNIA	9	355,000
8	INDIANA	5	340,000
9	MARYLAND	3	289,000
10	WISCONSIN	5	261,000
11	CONNECTICUT	1	241,000
12	DIST.OF COL.	3	203,000
13	RHODE ISLAND	1	175,000
14	MISSOURI	7	163,000
15	OREGON	10	162,000
16	VIRGINIA	3	153,000
17	IOWA	7	138,000
18	WASHINGTON	10	125,000
19	FLORIDA	4	110,000
20	MINNESOTA	5	97,000
21	OHIO	5	74,000
22	GEORGIA	4	73,000
23	NEBRASKA	7	69,000
24	KENTUCKY	4	66,000
25	TENNESSEE	4	59,000
26	NORTH CAROLINA	4	54,000
27	MAINE	1	49,000
28	NEW HAMPSHIRE	1	34,000
29	COLORADO	8	33,000
30	SOUTH CAROLINA	4	33,000
31	TEXAS	6	29,000
32	HAWAII	9	23,000
33	LOUISIANA	6	21,000
34	DELAWARE	3	21,000
35	ALABAMA	4	19,000
36	VERMONT	1	14,000
37	ARIZONA	9	11,000
38	NORTH DAKOTA	8	10,000
39	SOUTH DAKOTA	8	10,000
40	UTAH	8	7,000
41	MISSISSIPPI	4	7,000
42	WEST VIRGINIA	3	6,000
43	KANSAS	7	5,000
44	MONTANA	8	4,000
45	PUERTO RICO	2	3,000
46	ARKANSAS	6	2,000
47	NEVADA	9	2,000
48	IDAHO	10	1,000
49	NEW MEXICO	6	1,000
50	WYOMING	8	1,000
51	OKLAHOMA	6	1,000
52	VIRGIN ISLANDS	2	NR
53	AMERICAN SAMOA	9	NR
54	GUAM	9	NR
55	ALASKA	10	NR

- FOOTNOTES: 1. The estimated tar production are obtained by multiplying the corresponding estimated manufactured gas productions shown in Table 1 by the constant tar production factor of 730 gallons/MM scf.
2. "NR" signifies that data were not reported.

Tar production was estimated from the manufactured gas production based on a constant factor of 730 gal/MM scf. This factor was derived from 1930 Brown's data only.

Since this factor varies with the type of gas produced (e.g., coal gas produces more tar per MM scf than water gas), it does not account for changes in the makeup of the manufactured gas in years other than 1930. The tar factor also depends on the type of feedstock, in particular the type of coal (e.g., whether bituminous or anthracite coal). However, the coal type was not reported in Brown's. Finally, the quantity of tar produced is also dependent on equipment design and operating conditions as well as the extent of gas cleaners being utilized. Therefore, the actual tar production rate (gallons tar per MM scf of gas) is highly variable by site and is also variable by state. However, the tar production estimates made in this report use the same factor (730 gal/MM scf of gas) for all states and therefore the reader should use these estimates carefully (i.e., recognizing the uncertainties described above).

The total tar produced as a by-product by U.S. gas manufacturers between 1881 and 1950 is estimated to be approximately 11 billion gallons. Seventy-six percent of this amount (8.4 billion gallons of tar) was estimated to be sold and the remainder (2.6 billion gallons) was assumed to be unaccounted for (through captive consumption, unreported sales, or disposal). The tar estimates for the 1820 to 1950 time period are 11.5 billion gallons produced, 8.7 billion gallons sold, and 2.8 billion gallons which are not accounted for.

Based on available data and resources, the following general approach was used to develop the tar production estimates. First, the total tar production was related to the corresponding amount of gas produced from a subset of the data

to obtain a constant factor (730 gallons tar/MM scf of gas produced). This factor was then applied to the total gas production for each state for the time period, 1881 to 1950, shown in Table 4, to obtain state-by-state tar production estimates. The total of these tar production estimates represents the total tar produced by the U.S. gas manufacturing industry from 1881 to 1950. This total estimated tar production for the period 1881 to 1950 was extended to cover 1820 to 1880 based on a "zero linear interpolation" assumption, as explained in the following discussion.

Procedure For 1881 To 1950 Tar Estimates

1. A constant tar production rate as a function of gas production was estimated from available 1930 Brown's data. That year was chosen because of relatively ample availability of by-product data (reported for approximately 40 percent of plants). This constant factor was calculated as the total tar production divided by total gas production (for plants reporting tar production), resulting in a value of 730 gallons of tar per million cubic feet of gas produced.
2. The total tar production from 1881 to 1950 was obtained by applying the above factor to the total gas production estimated for the same time period. This total gas production is estimated to be approximately 15 trillion cubic feet as presented in Table 1, resulting in an estimate of 11 billion gallons of tar produced between 1881 and 1950.
3. The amount of tar sold was estimated as 76 percent of the total tar produced (8.4 billion gallons). This constant factor was based on data reported by the U.S. Department of Commerce (Bureau of the Census) in the Census of Manufacture: 1931. The remainder, 24 percent of the total tar produced (2.6 billion gallons), was assumed to be attributed to internal consumption within a plant, unreported sales, or loss. It should be noted that this factor is based on data reported for four

years in this survey. The inaccuracy caused by using this factor is not known; however, it is believed sufficient for the order of magnitude estimate that this survey intended.

Procedure For 1820 To 1880 Tar Estimates

The 1881 - 1950 tar production estimate was extrapolated to include the early years of the U.S. manufactured gas industry (1820 to 1880) as follows:

1. The tar productions for the end years of the time period for which tar production was not yet estimated (1820 to 1880) were established. It was assumed that no tar was produced in the first year of the manufactured gas industry, 1820. The tar production for 1880 was based on applying the tar factor (730 gallons tar/MM cubic feet of gas) to the total gas production for the year, 1890. The 1890 gas production was calculated as the total of reported data for the year, 1890, or 23,600 MM scf. The resulting quantity of tar estimated to have been produced in 1890 is 17 million gallons.
2. Next, it was assumed that the tar production between 1820 and 1880 could be linearly interpolated based on the productions established in the preceding step. The resulting estimate is 0.5 billion gallons of tar produced between 1820 and 1880. The addition of this production to the 1881 to 1950 estimate of 11 billion gallons of tar yields the estimated total tar production of 11.5 billion gallons by the U.S. manufactured gas industry between 1820 and 1950.
3. Based on the percent factor described in step 3 above, it is estimated that 8.7 billion gallons of tar were sold and 2.8 billion gallons of tar were unaccounted for during the time period, 1820 to 1950.

OTHER BY-PRODUCTS

This part discusses the production and fate of by-products (other than tar) resulting from the manufacture of gas. In this preliminary study, however, the focus is primarily on tar. Analyses of the other by-products were not performed in this study although future evaluation of the potential tar disposal environmental impact may warrant further investigation into the fate of these other by-products. These other by-products include:

- coke
- ammonia
- naphthalene
- crude light oil and derivatives
- coal screenings and residue
- spent iron oxide (contains sulfur)
- spent lime (dry or in solution)

The above by-products usually had some commercial value for further recovery or consumption. The table shown below presents percentages of by-products sold and unaccounted for which were calculated from data for four years (1925, 1927, 1929, and 1931) as reported in the Census of Manufacturers: 1931 for the manufactured gas industry. These particular years were selected solely on the basis of data availability. Data were unavailable for spent iron oxide and lime, which were used to remove hydrogen sulfide from the manufactured gas. Additional information regarding the sources and production of these by-products may be found elsewhere (Reference 3).

Table 6
BY-PRODUCT DISPOSITION

<u>By-Product</u>	Percent of Total Produced ⁽¹⁾	
	<u>Sold</u>	<u>Unaccounted</u>
Tar	76	24
Coke	62	38
Ammonia	(2)	(2)
Naphthalene, Crude	46	54
Crude Light Oil	26	74
Light Oil Derivatives	55	46
Screenings and Breeze	13	87
Spent Iron Oxide	(2)	(2)
Spent Lime	(2)	(2)

(1) Average of the years 1925, 1927, 1929, and 1931.

(2) No data reported.

Source of data: Census of Manufacture: 1931 (U.S. Dept. of Commerce)

REFERENCES

1. Brown's Directory of American Gas Companies, Moore Publishing Company, Inc., New York, N.Y., 1890, 1900, 1910, 1920, 1930, 1940 and 1950-51 editions.
2. Bureau of the Census (U.S. Department of Commerce), Census of Manufacture: 1931 - Manufactured Gas; Coke-Oven Products; Fuel Briquets, U.S. Government Printing Office, Washington, D.C., 1934.
3. Steward, E.G., Town Gas - Its Manufacture and Distribution, Her Majesty's Stationary Office, London, 1958.

Appendix A

BACKGROUND INFORMATION ON DATA SOURCE AND PROCESSES

SAMPLE PAGES FROM BROWN'S DIRECTORY OF AMERICAN GAS COMPANIES

This part contains example pages from the 1890 and 1950-1951 editions of Brown's Directory of American Gas Companies. These example pages show the extent and detail to which data are reported by Brown's, as well as the change in the reported data from 1890 to 1950.

BROWN'S DIRECTORY OF AMERICAN GAS COMPANIES.

GAS STATISTICS.

ALABAMA.

**Birmingham Gas, Electric Light & Power Co.,
Birmingham.**

Jefferson County.

Capital stock, \$500,000.
Total bonds outstanding, \$140,000.
President, J. F. B. Jackson.
Treasurer, B. F. Roden.
Secretary, B. F. Roden.
Purchasing Agent, B. F. Roden.
Superintendent, T. Byron.
Process of Manufacture, Coal.
Population, 50,000.
Price of Gas in 1889, \$1.50.
Number of public lamps, 12.
Price received for public lamps, \$1.25 per month.
Approximate annual output, 40,000,000.
Candle power, 18.
Operate Thomson-Houston Electric System.
Number of Lights, 370 Arc and 1,600 Incandescent Lights.

Decatur Light & Power Co., Decatur.

Morgan County.

Capital stock, \$150,000.
Total bonds outstanding.
President, W. W. Littlejohn.
Treasurer, 1st Nat'l Bank.
Secretary, Jas. M. Scott.
Purchasing Agent, Jas. M. Scott.
Superintendent, Jas. M. Scott.
Process of Manufacture, Coal.
Population, 8,000.
Price of Gas in 1889, \$2.00, 10 per cent. discount.
Number of public lamps, 73.
Price received for public lamps, \$25.00 per year.
Approximate annual output not stated.
Candle power, 18.

Enfaula Gas, Electric Light and Power Co., Enfaula.

Barbour County.

Capital stock, \$50,000.
Total bonds outstanding, \$
President, John W. Tullia.

Treasurer, A. Beringer.

Secretary, A. Beringer.

Purchasing Agent, John W. Tullia.

Superintendent, James Ferrier.

Process of Manufacture, Coal.

Population, 7,500.

Price of Gas in 1889, \$2.50, less 10 per cent.

Number of public lamps, 55.

Price received for public lamps.

Approximate annual output, 3,000,000.

Candle power.

Operate Thomson-Houston Electric System, 50
Arc and 50 Incandescent Lights.

Huntsville Gas Light and Coke Co., Huntsville.

Madison County.

Capital stock, \$75,000.

Total bonds outstanding \$37,500.

President, Robt. E. Coka.

Secretary, L. W. Murdoch.

Superintendent, L. W. Murdoch.

Process of Manufacture, Coal.

Population, 3,000.

Price of Gas in 1889, \$2.00 to \$1.75.

Number of public lamps, 30.

Price received for public lamps.

Approximate annual output, 10,000,000.

Candle power, 18.

Mobile Gas Light and Coke Co., Mobile.

Mobile County.

Capital stock, \$250,000.

Total bonds outstanding, \$

President, S. J. Rubira.

Treasurer, H. W. Shields.

Secretary, H. W. Shields.

Purchasing Agent, H. W. Shields.

Superintendent, John O'Brien.

Process of Manufacture, Coal.

Population, 40,000.

Price of Gas in 1889, \$1.75 to \$2.25.

Number of public lamps, none.

Price received for public lamps.

Approximate annual output, 14,000,000.

Candle power, 18.

In Alabama Gas Companies in the towns of Birmingham, Enfaula and Selma operate the *Thomson-Houston Electric System*. See advertisement, page x.

GAS COMPANY STATISTICS

NATURAL, MANUFACTURED AND BUTANE GAS COMPANIES

Statistics for the Calendar Year 1949 Arranged Alphabetically According to States and Cities

ALABAMA

GAS COMPANIES AND MAIN OFFICE

Alabama Gas Corp.	Birmingham	Mobile Gas Service Corp.	Atlanta, Ga.
Alexander City Municipal Gas Co.	Alexander City	National Utilities Co.	Florence
Andalusia Gas System	Andalusia	Ozark Municipal Gas Plant	Ozark
Apex Gas Co., Inc.	Birmingham	Pell City Gas System	Pell City
Atmore Gas Dept., City of	Atmore	Phenix City Natural Gas Co.	Phenix City
Bay Minette Natural Gas Dept	Bay Minette	Piedmont Water Works and Gas Board	Piedmont
Brewton Gas Dept.	Brewton	Pleasant Grove Municipal Gas Co.	Pleasant Grove
Colbert Gas Co., Inc.	Sheffield	Ragland Gas System	Ragland
Decatur Gas System	Decatur	Southern Natural Gas Co.	Birmingham
Huffman Gas System	Huffman	Sylacauga Gas System	Sylacauga
Huntsville Gas System	Huntsville	Tallassee Gas System	Tallassee
Jacksonville Water Works & Gas Board	Jacksonville	Troy Gas Dept., City of	Troy
		Union Springs Gas Co., City of	Union Springs

COMMUNITIES SERVED AND INDEX TO OPERATING DATA

Alexander City	Alexander City	Huffman	Huffman	Prichard	Mobile
Andalusia	Andalusia	Huntsville	Huntsville	Ragland	Ragland
Anniston	Anniston	Irondale	Birmingham	Reform	Reform
Atmore	Atmore	Jacksonville	Jacksonville	Selma	Selma
Attalla	Gadsden	Leeds	Leeds	Sheffield	Sheffield
Auburn	Auburn	Lincoln	Lincoln	Spring Hill	Mobile
Bay Minette	Bay Minette	Lipscomb	Birmingham	Sylacauga	Sylacauga
Bessemer	Birmingham	Mobile	Mobile	Talladega	Talladega
Birmingham	Birmingham	Montgomery	Montgomery	Tallassee	Tallassee
Blue Mountain	Anniston	Mountain Brook	Birmingham	Tarrant City	Birmingham
Brewton	Brewton	Northport	Tuscaloosa	Troy	Troy
Brighton	Birmingham	Notasulga	Notasulga	Trussville	Huffman
Chickasaw	Mobile	Opelika	Opelika	Tuscaloosa	Tuscaloosa
Decatur	Decatur	Oxford	Anniston	Tuscumbia	Sheffield
Fairfield	Birmingham	Ozark	Ozark	Tuskegee	Tuskegee
Florence	Florence	Pell City	Pell City	Union Springs	Union Springs
Gadsden	Gadsden	Phenix City	Phenix City	Wetumpka	Wetumpka
Heflin	Heflin	Piedmont	Piedmont	Whistler	Mobile
Homewood	Birmingham	Pleasant Grove	Pleasant Grove		
Hueytown	Pleasant Grove	Prattville	Prattville		

OPERATING DATA

ALEXANDER CITY

Alexander City Municipal Gas Co. (*Butane-Air*)
Municipal plant.
Mayor: D. H. Williams.
Gas supt.: M. G. Allen.
Calorific value: 530 B.t.u.
Average specific gravity: 1.16.
Miles of main: 19.
Miles of pipe line: 14.
Number of services in ground: 680.
Annual production: 50,000,000 cu. ft.
Annual purchases: 25 tank cars.
Annual sales: 49,500,000 cu. ft.
Population served: 8600.
Company does not sell appliances.
Supplies: Alexander City, alt. 750 ft.; 615 meters.

Number of employees: 2.

ANDALUSIA

Andalusia Gas System (*Butane-Air*)
Municipal plant.
Population: 7,000.
Supplies: Andalusia.
(No detailed information available from city; data compiled from other sources.)

ANNISTON

Alabama Gas Corporation (*Natural*)
1221 Noble St.
For officers and directors, see company's report.
Birmingham.

Figure A-2. Sample Page from Brown's 1950-51 Edition

2 ALABAMA

OPERATING GAS COMPANIES

Local mgr.: E. H. Miller.
Calorific value: Average, 1,028 B.t.u.
Average specific gravity: .60.
Gas purchased from Southern Natural Gas Co.
Miles of mains: 113.34; 3 in., equiv.
Number of services in ground: 7,262.
Annual sales: 1,450,070,000 cu. ft.
Sales divided: Dom., 35%; com. and indus., 64%; space heating, 1%.
Gas unaccounted for: 4.67%.
Population: 40,500.
Number of meters: Dom., 6,372, com. and indus., 742; space heating, 22.
PRICE OF GAS: See rates for Alabama Gas Corporation, Alabama Div., Birmingham.
Unit sales of appliances, 1949: 678, all types.
Company operates one retail store.
Supplies: Anniston, Blue Mountain and Oxford.
Number of employees: 55.

ATMORE

City of Atmore, Gas Department (Natural)
Municipal plant.
Administrators: Mayor H. H. Dees and City Council.
Supt.: W. K. McConico.
Calorific value: 1,050 to 1,070 B.t.u.
Average specific gravity: .60.
Miles of mains: 19, pressure, 10 lbs.
Number of services in ground: 635.
Annual sales: 28,500,000 cu. ft.
Population: District, 5,000.
Number of consumers: Dom., 596; com., 149; total 745, including space heating, 85.
PRICE OF GAS: First 200 cu. ft., \$1.25; next 3,800 cu. ft., \$3.80; next 5,000 cu. ft., \$4.50; next 5,000 cu. ft., \$4.00; additional, 70c. per M.
Company does not sell appliances.
Supplies: Atmore, altitude 281 ft.

AUBURN

Alabama Gas Corporation (Natural)
N. College St.
For officers and directors, see company's report, Birmingham.
Local mgr.: Howard Higgins.
Calorific value: Average, 1,028 B.t.u.
Average specific gravity: .60.
Gas purchased from Southern Natural Gas Co.
Miles of mains: 22.35; 3 in. equiv.
Number of services in ground: 1,214.
Annual sales: 268,984,000 cu. ft.
Sales divided: Dom., 49%; com. and indus., 44%; space heating, 7%.
Gas overaccounted for: 96%.
Population: District, 7,300.
Number of meters: Dom., 1,564; com. and indus., 133; space heating, 28.
PRICE OF GAS: See rates for Alabama Gas Corporation, Alabama Div., Birmingham.
Unit sales of appliances, 1949: 88, all types.
Company operates one retail store.
Supplies: Auburn.
Number of employees: 7.

BAY MINETTE

Bay Minette Natural Gas Dept. (Natural)
Municipal plant.
Calorific value: 1,070 B.t.u.
Average specific gravity: .60.
Population: 2,000.
Supplies: Bay Minette, 300 customers (est.).
(No detailed information available from city; data compiled from other sources.)

BIRMINGHAM

Alabama Gas Corporation, Alabama Division (Natural)
Watts Building.
Owned by Southern Natural Gas Co.
Directors: C. T. Chenery, Harold J. Mahnken, New York; Chas. B. Gamble, J. N. Greene, C. P. Rather, C. van den Berg, H. R. Derrick, Raymond Beeny, Birmingham, Ala.; Jesse L. Terry, Princeton, N. J.
Chm.: C. T. Chenery.
Vice chm.: C. van den Berg.
Pres.: J. N. Greene.
Sec.-treas.: Raymond Beeny.
Vice-pres.: H. R. Derrick, H. M. Erskine, C. H. Horne, R. A. Puryear, Jr.
Asst. sec. and asst. treas.: Wm. H. Kennedy, N. R. Kerredge, R. C. Wirtz, Elizabeth C. Ham.
PRICE OF NATURAL GAS: Available to residences, individual family apartments and commercial establishments using less than 35,000 cu. ft. in any day. Gas service under this schedule shall be through a single point of delivery and such gas shall not be resold. This schedule is not available to multiple housing projects. First 300 cu. ft. or less per mo., \$1.00; next 2,700 cu. ft., 95c. per M; next 2,000 cu. ft., 50c. per M; next 45,000 cu. ft., 45c. per M; next 50,000 cu. ft., 35c. per M; additional, 30c. per M. Minimum monthly bill: \$1.00. Payment: Bills for service rendered are payable within ten days from due date, and if not paid within such period become delinquent and subject to charges as set forth in the rules of the Alabama Public Service Commission. Effective March 22, 1949.
Supplies: Anniston, 7,136*; Auburn, 1,723*; Gadsden, 10,980*; Heflin, 301*; Leeds, 761*; Lincoln, 117*; Montgomery, 19,962*; Notasulga, 177*; Opelika, 2,286*; Prattville, 687*; Reform, 264*; Selma, 4,487*; Talladega, 1,977*; Tuscaloosa, 8,933*; Tuskegee, 936*; Wetumpka, 832*.
For operating statistics, see separate reports for towns listed above.
 * Indicates number of meters.

BIRMINGHAM

Alabama Gas Corporation, Birmingham Division (Manufactured and Natural)
1918-20 N. 1st Ave.; plant, 410 S. 10th St.
For officers and directors see company's report, Alabama Division, Birmingham.
Gas purchased: Natural gas, 8,864,814,000 cu. ft. from Southern Natural Gas Co., Birmingham; coke oven gas, 6,706,157,000 cu. ft. from Sloss-Sheffield Steel and Iron Co., Alabama By-Products Corp., and Woodward Iron Co.
Calorific value: Average, natural gas, 1,028 B.t.u.; coke oven gas, 524 B.t.u.
Average specific gravity: .4.
Gas holder capacity: Storage, 11,356,000 cu. ft.; LP-Gas standby plant, 980,000 gals.
Miles of mains: 1,379.45; 3 in. equiv.
Number of services in ground: 65,926; av. diam., 1 1/4 in.
Annual sales: 15,202,161,000 cu. ft.
Sales divided: Dom., 5,159,333,000 cu. ft.; com., 1,262,976,000 cu. ft.; indus., 8,554,932,000 cu. ft., heating, 224,920,000 cu. ft.
Maximum day's send-out: 86,490,000 cu. ft.
Gas unaccounted for: .67%.
Population: City, 318,500; district, 510,000.
Number of consumers: Dom., 77,980; com., 4,972; indus., 136; heating, 689.
Number of meters: 83,777.
PRICE OF GAS: Schedule BM-1. Residential. First 2,000 cu. ft. per mo., 80c. per M; next 3,000 cu. ft.,

Figure A-2 continued

60c. per M; next 30,000 cu. ft., 40c. per M; additional, 25c. per M. Effective March 22, 1949. Schedule BN-1. Residential, natural gas: First 1,000 cu. ft. per mo., 16c. per C, next 1,500 cu. ft., 12c. per C; next 15,000 cu. ft., 8c. per C, additional, 5c. per C. Effective March 22, 1949. The following general provisions are applicable to Schedules BM-1 and BN-1: Minimum monthly bill: 70c. Bills due and payable on date of bill and delinquent 10 days thereafter.

Schedule BM-2. Optional. Available to residential customers and at the option of the customers for gas used in a central-fired heating plant or its equivalent. First 10,000 cu. ft. per mo., 45c. per M; next 20,000 cu. ft., 35c. per M; additional, 25c. per M. Effective March 22, 1949. Schedule BN-2. Natural gas: first 5,000 cu. ft. per mo., 9c. per C, next 10,000 cu. ft., 7c. per C, additional, 5c. per C. Effective March 22, 1949. The following general provisions are applicable to Schedules BM-2 and BN-2: Minimum monthly charge: \$2.00 for the months of November to April, inclusive, which charge will be accumulated and credited to the charge for gas. When charges for gas in any one season have exceeded \$12.00 no further minimum charge will be required. Bills rendered monthly. The terms "month" and "monthly" mean the period between regular meter readings, which shall be made as nearly as practicable every 30 days.

Unit sales of appliances, 1949: Ranges, 1,985; refrigerators, 864; water heaters, 856; miscellaneous, 111.

District has three retail stores.

Supplies: Bessemer, Birmingham, Brighton, Fairfield, Homewood, Irondale, Lipscomb, Mountain Brook, Tarrant City.

Number of employees: 604.

BIRMINGHAM

Apex Gas Company, Inc. (Natural)

Watts Building, Birmingham, Ala.

Subsidiary of Southern Natural Gas Company, Watts Building, Birmingham, Ala.

Chm. of bd.: C. T. Chenery.

Pres.: C. P. Rather.

Vice-pres. and sec.: H. D. McHenry.

Vice-pres.: R. H. Ulrich and H. M. Erskine.

Asst. sec.: R. G. Kenan.

Treas. and compt.: H. E. Jackson.

Asst. treas.: Loren Fitch and Langston W. McCalley.

Calorific value: 1,025 B.t.u.

Average specific gravity: .620.

Miles of mains: 34.23.

Annual sales: 1,372,240,000 cu. ft.

Number of meters: 12.

Gas is sold to Gulf Public Service Company, Natchitoches, La., and Mansfield, La., and Sabine Gas Co., Rushton, La.

BIRMINGHAM

Southern Natural Gas Co. (Natural)

Watts Bldg., P. O. Box 2563.

Directors: C. T. Chenery, H. M. Erskine, Edgar C. Hill and Beverly Bogert, New York; William H. Remmel, Pittsburgh, Pa.; Basil Manly, Washington; C. van den Berg, C. P. Rather, H. D. McHenry, R. H. Ulrich and J. N. Greene, Birmingham.

Chm. of bd.: C. T. Chenery, New York.

Vice chm. of bd.: C. van den Berg.

Pres.: C. P. Rather.

Vice-pres. and sec.: H. D. McHenry.

Vice-pres.: R. H. Ulrich, Basil Manly, H. M. Erskine, R. H. Burdick and J. B. Milmo.

Treas. and compt.: H. E. Jackson.

Asst. sec.: Robert G. Kenan and P. S. Conlon, Birmingham, and E. C. Ham, New York, N. Y.

Asst. treas.: Loren Fitch, Langston W. McCalley and W. M. Jahnel.

Chief engr.: R. H. Burdick.

Pipe line supt.: O. A. Tooley.

Sales mgr.: J. B. Milmo.

Supt. of operations: J. W. Yeidell.

Supt. measurements: C. E. Terrell.

Statistician: W. T. Ivey.

Rate engr.: Marc Baum.

Pur. agt.: J. D. Kennedy.

Gas purchased from following companies: United

Carbon Co., Charleston, W. Va.; United Gas Pipe Line Co., Shreveport, La.; Hope Producing Co., Monroe, La.; Interstate Natural Gas Co., Inc., Monroe, La.; Southern Production Co., Inc., Shreveport, La.; The Superior Oil Co., Houston, Tex.; Humble Oil Co., Houston, Tex.; Magnolia Petroleum Co., Dallas, Tex.; S. W. Richardson, Fort Worth, Tex.; Sun Oil Co., Dallas, Tex.; and others.

Gas purchased: 120,925,714,000 cu. ft. (8 oz. base).

Gas produced: 4,482,398,000 cu. ft. (8 oz. base).

Annual sales: 125,146,303,000 cu. ft. (8 oz. base).

Population of district supplied: 1,524,037, 1940 census (including Birmingham metropolitan area where both natural and by-product gas are sold).

Customers at city gate: Companies served, 6; municipalities, 11; communities served indirectly, 60; direct deliveries, 31.

Gas sold at city gates to the following companies:

Alabama Gas Corp., Ala. Div., Anniston, Auburn, Gadsden, Heflin, Leeds, Lincoln, Montgomery, Northport, Notasulga, Opelika, Prattville, Reform, Selma, Talladega, Tuscaloosa, Tuskegee, Wetumpka, Ala.; Birmingham Div., Bessemer, Birmingham, Fairfield, Homewood, Mountain Brook, Ala.; Atlanta Gas Light Co., Atlanta, Barnesville, Bremen, Calhoun, Carrollton, Cartersville, Cedartown, College Park, Douglasville, East Point, Forsyth, Gordon, Griffin, Hampton, Macon, Marietta, Milledgeville, Newnan, Rockmart, Rome, Thomaston, Ga.; Gas Light Co. of Columbus, Columbus, Fort Benning, Ga.; Phenix Natural Gas Co., Phenix City, Ala.; Municipalities of Huffman, Jacksonville, Pell City, Piedmont, Pleasant Grove, Ragland, Sylacauga, Tallapoosa, Ala., and Tallapoosa, Ga.; Mississippi Gas Co. Amory, Aberdeen, Brookville, Columbus, Louisville, Macon, Meridian, Nettleton, Okolona, Starkville, Tupelo, West Point, Miss.; Mississippi Power and Light Co., Benton, Durant, Goodman, Kosciusko, Lexington, Pickens, Yazoo City, Miss.; Vicksburg Municipal Gas System, Vicksburg, Miss.

Miles of gas pipe line, total as of January 1, 1950:

2,217.3 miles; size (outside diameter) 24 in., 130.4 miles; 22 in., 451.1 miles; 20 in., 218.1 miles; 18 in., 62.5 miles; 16 in., 86.7 miles; 14 in., 130.0 miles; 12½ in., 349.3 miles; 10½ in., 202.0 miles; 8½ in., 181.1 miles; 6½ in., 251.7 miles; 4½ in., 139.4 miles; 3½ in., 10.8 miles; 2½ in., 4.2 miles.

Miles of gas pipe field lines included in total above:

68.80 miles; size (outside diameter) 22 in., .15 miles; 18 in., .31 miles; 12½ in., 6.84 miles; 10½ in., 3.15 miles; 8½ in., 9.00 miles; 6½ in., 32.34 miles; 4½ in., 16.12 miles; 3½ in., .44 miles; 2½ in., .45 miles.

These figures include multiple river crossing lines and parallel lines.

Number of compressor stations: 14; 104,170 hp.

Number of employees: 720.

BREWTON

Brewton Gas Dept. (Natural)

Municipal plant.

Figure A-2 continued

DESCRIPTION OF VARIOUS MANUFACTURED GAS TYPES

This part briefly describes the various manufactured gas types and their distinguishing characteristics. There are three different major types of manufactured gas:

1. Coal
2. Water
3. Oil

Manufactured gas can also be sold as a mixture of the above gases. These three types are distinguished by their composition and respective processes of manufacture. This study is primarily concerned with coal and water gases because the large majority of manufactured gas consists of these two types. Each gas type is described separately below.

Coal Gas

Coal gas is produced from the heat treatment of coal in a closed vessel, or retort, a process known as carbonization. This process produces a combustible gas comprised mainly of hydrogen and methane which has a typical heating value between 400 and 550 British Thermal Units (BTU)/cubic foot. The primary by-products which result from carbonization are coke, tar, and ammonia.

Water Gas

Water gas was usually used to supplement the production of coal gas in order for gas manufacturers to meet cyclic demands. Water gas is produced from passing steam (thus the term "water gas") through hot coke to form a gas comprised

mainly of hydrogen and carbon monoxide. Heat treatment of coke or oil to produce gas was known as gasification, whereas carbonization referred to the heat treatment of coal. Water gas typically has a heating value of approximately 300 BTU/cubic foot and is non-luminous (i.e., it has negligible illuminance when combusted) due to the lack of rich hydrocarbons. Since town gas was used primarily for lighting purposes in the 1800s, it was desired to "enrich" the water gas, usually by the addition of gas produced from the cracking of oil, to form "carburetted water gas". The oil gas, having a higher heating value (approximately 1,700 BTU/cubic foot) and hydrocarbon content than water gas, resulted in a gas mixture which was comparable to coal gas (in terms of heating and illuminating values). The carburetted water gas was also amenable to the same purification processes as coal gas although less coke, tar, and ammonia production were characteristic of water gas production compared with coal gas production.

Oil Gas

Gas produced from oil as the main raw material was less commonly used compared with coal and water gas due to the relatively high cost of oil gas production. As described above, oil gas was typically used to enrich water gas. Oil gas was usually produced from the thermal cracking of oil, a process known as oil gasification. The cracking was achieved by the spraying of oil via a carburettor (thus the term "carburetted water gas") onto hot brickwork or a bed of selected catalyst. The primary by-products resulting from oil gasification were typically oil derivatives, tar, and naphthalene.

Additional discussion of the manufacturing processes and gas types may be found elsewhere (Reference 3).

DESCRIPTIONS OF VARIOUS WATER GAS PROCESSES
(FROM BROWN'S DIRECTORY)

This part contains descriptions of water gas processes copied from the 1890 edition of Brown's Directory of American Gas Companies. The intent of presenting this is to give the reader a better understanding of the kind of material which is available and was used in this survey. The following pages in this appendix are copyrighted and used with the permission of _____.

EXPLANATIONS

—OF—

Various "Processes" Mentioned in this Work.

For the information of those seeking further knowledge of the methods simply designated by the names of systems following "Process of Manufacture" as used in this work, we give herewith a brief outline of the character of the several principal processes. Such descriptions, however, are of the water gas processes only, as from the great uniformity in the processes of coal and oil gas manufacture no detail description of the differences could be made without an undue elaboration of the subject.

It should be borne in mind that there are three distinct systems of water gas manufacture, viz.:

1st. Generator-superheater type, in which water gas is made, and enriched and fixed all in one apparatus, internally fired.

2d. Generator-retort type, in which water gas is made in internally fired generators, but enriched and the product fixed in a second and separate apparatus (usually retorts internally fired) and in a second operation.

3d. Retort type, in which water gas is made and enriched entirely in special (usually vertical) retorts externally fired.

We give a brief description of the several leading forms of apparatus, arranged alphabetically, as below.

For more extended information we would recommend consulting of *Progressive Age* for Nov. 1st, 1889 (article "Illuminating Water Gas," by Mr. F. H. Shelton), and "Water Gas in the United States," by Alex. C. Humphreys, M. E., published by Progressive Age Publishing Co., 18 Broadway, New York, bound book form, price \$1.00.

GENERATOR-SUPERHEATER PROCESSES.

FLANNERY:

Invention of Joseph Flannery, controlled and built by the Bay State Gas Company of Boston, Mass. Distinctive features are the placing of the generator and superheater in a wrought rectangular shell (in place of the usual cylindrical shells), building the same in pairs, and passing the enriching oil through a long vaporizing retort before admission to the superheater.

First Flannery Works built at Middletown, Pa., in 1881. Since introduced on a large scale in the Standard Gas Light Co.'s Works, New York, Bay State Co., Boston, etc. Total plants erected about fifteen.

GRANGER-COLLINS:

Invention of A. O. Granger and Jos. H. Collins, Jr. Controlled and built by The United Gas Improvement Co. of Philadelphia. Distinctive features are the location of the generator below floor level, or in a pit, with superheater laping generator, in order to gain advantages of cupola single shell type of construction, and yet retain complete access to generator, and the introduction of the oil in form of spray under high pressure, at base of superheater. Designed for convenience of operation, small floor space, and chiefly for the use of naphtha. Total plants erected about fifty.

Figure A-3. Description of Processes from Brown's.

HANLON-LEADLEY:

Invention of John Hanlon and———Leadley. Controlled by the United Coal and Oil Gas Co., New York. Distinctive feature is the use of two or three generators on a common connecting base. In making water gas steam is passed down one generator and up the next, and this course reversed the next and alternate runs.

This process has become more or less celebrated through the recent patent right litigation between its promoters and the owners of the Lowe patents, resulting in a victory for the last named parties.

Previously to this some fifteen plants had been erected, the first at Passaic, N. J., in 1864; the largest for the Philadelphia Gas Bureau, capacity 6,000,000 per diem.

LOOMIS:

Invention of Burdett Loomis. Controlled by the Loomis Gas Machinery Co., Philadelphia, Pa. This apparatus as built for illuminating gas, chiefly distinctive in the use of soft coal in generator—with a downward blast or exhaust draught, and peculiar filling of superheater for caring for the soot and ash from the use of soft coal. Built in rectangular wrought shell. First plant erected at Cottage City, Mass., 1886. Since then about six others of this form.

The Loomis system as now pushed by its promoters is for an apparatus chiefly for fuel gas. This form consists of but a simple generator to make "producer gas," and non-illuminating fuel gas. This, if desired for illumination, is afterwards passed through retorts and enriched and fixed, as in the next class of water gas apparatus. A number of plants of this form have been erected, almost entirely, however, for industrial manufacturing purposes, such as mills, iron working establishments, etc.

LOWE:

Invention of Prof. T. S. C. Lowe. Controlled and built by The United Gas Improvement Co., Philadelphia, Pa. Distinctive features of this process are the use of a generator in connection with a superheating or fixing chamber, fired by the internal combustion of the gases formed in "blowing up" the generator; also the introduction of oil, or other enriching substances into the hydrogen gas, and the fixing of the two by passage through the superheater; also the use of the superheater for superheating steam if desired. This process has lately been upheld at length, in the courts, as a base patent process covering the generator-superheater system of water gas manufacture.

The Lowe apparatus has been built in various forms, of one principle, but differing in design and detail. (Double deck, "Gooseneck," Chicago, "Humphreys," Double superheater, etc.) As now built it is perhaps the only apparatus satisfactorily handling crude Lima oils, or distillates, etc., for high candle power fixed gas. This type of apparatus is adapted to the largest or smallest works, and has been erected in about 125 throughout the country. First works operated in 1874, in Phoenixville, Pa.

McKAY-CRITCHLOW:

Invention of Peter English, but commonly known under the name of McKay-Critchlow, from its use in connection with the patent of that name, for the carbureting of natural gas. Controlled by The United Gas Improvement Co. Distinctive feature is the use of a single vertical shell, with superheater in upper half—generator in lower—separated by solid arch. Gases pass around same, through suitable flues, from generator to superheater. For use to enrich natural gas steam is partially replaced by natural gas, which is decomposed and enriched and fixed, as in making water gas. First plant erected in London, Ont., 1882. Total plants erected about forty.

MARTIN:

Invention of Thomas Martin. Controlled by Wm. Henry White, New York. Distinctive feature is the introduction of the oil in an expansion of the connection between generator and superheater. Otherwise, almost identical with "Gooseneck" early Lowe form. Four plants of this form have been erected.

Figure A-3 continued

PRATT & RYAN:

Invention of Messrs. Pratt & Ryan, of Chicago. Controlled by the same. Distinctive feature is the generator and superheater in single vertical shell as in McKay and Springer, built in pairs, for reversing course of steam in alternate runs, and the introduction of the oil through cored fire brick arches in the superheater. Some five plants have been erected of this form.

SPRINGER:

Invention of T. G. Springer. Controlled by the National Gas Light and Fuel Co., of Chicago. Principal features are the combination of the generator and superheater in one vertical shell, commonly called the "cupola" form, to conserve floor space and radiation. Later forms of this apparatus are fitted with external flues, etc., to reverse the course of flow of gas through the apparatus. Oil is admitted by steam jet. First plant erected in Chicago, 1882. Total plants erected about fifty, chiefly in the West and Mississippi Valley territory.

VAN STEENBURGH:

Invention of B. Van Steenburgh, New York, by whom controlled. Distinguishing feature is the use of space above coal in generator for superheater, by interposition of fire brick tile; or, in other words, making water gas all in one chamber. Adapted for naphtha only. Some dozen plants or so of this form were erected in the Middle States from 1881 to 1895.

GENERATOR-RETORT SYSTEM

EDGERTON:

Invention of H. E. Edgerton, Danbury, Conn., by whom controlled. Distinguishing feature of this process is the use of vertical retorts for the enriching (by the addition of oil), and fixing of water gas, passed through them; which retorts are externally fired by the gases formed in blowing up the generator for making the water gas. Some four or five plants have been erected of this form.

EVANS:

Hardly a distinct process, but rather a combination of coal and water gas apparatus. Coal is carbonized in an ordinary bench of retorts. The coke when withdrawn is charged into generators, located near by, in which non-luminous water gas is made. The mixture of water gas and coal gas is practically non-luminous, and is sold for fuel gas. When desired for illumination an incandescent burner is necessary. This "process" is in use in but one or two places only.

JERZMANOWSKI:

Invention of E. J. Jerzmanowski. Controlled by U. S. Equitable Co., New York City. This system is, strictly speaking, a cross between this and the preceding type of water gas manufacture, as the primary generating apparatus consists of a generator and fixing chamber (filled with limestone) with blasts, steam and oil inlets, as in the Lowe process. In this a gas of moderate candle power is made, which is afterwards led off, passed over oil vapors, and finally fixed by passing through retorts externally fired. This process is in use on a large scale in New York, Chicago, Baltimore, etc. Limited to the use of naphtha, and best adapted to large works.

YEEZE:

Invention of ——— Yeeze, of England. Controlled by the International Gas Co., New York. In this system non-luminous water gas is made in generators, independently—as in all of this class. Oil gas is made separately in retorts of peculiar construction, and the water gas admixed with same, at that point, or beyond. This process has been introduced in some three or four works only.

Figure A-3 continued

TESSIE DU MOTAY:

Invention of M. Tessie du Motay, of France. Controlled and built by the Continental Iron Works, Brooklyn, N. Y. Distinguishing features of this process are the making of a non-luminous water gas in generators (gasogenes) which is afterwards passed over oil vapors, and thence through retorts for fixing. This while making an excellent and uniform grade, limits to the use of naphtha or other volatile oils—a disadvantage as compared with the use of crude Lima oils, at the present day. This process sometimes called the "Municipal," from its first use by the company of that name in New York in 1873, is best adapted to large works. It is in use in New York, Brooklyn and three or four other points.

WILKINSON:

Invention of Dr. Wilkinson. Controlled and built by Bartlett, Hayward & Co., Baltimore, Md. This is practically like the preceding process, except that the generators are so constructed that water gas is made up or down, through the coal bed, at will. This gas passes through scrubbers, illuminator, meter and benches, etc., for fixing, as the preceding, and likewise cannot use Lima or other heavy oils successfully. First plant erected in the Mutual Co.'s Works, New York, and later in some three or four others.

RETORT PROCESSES.

ALLEN-HARRIS:

Invention of W. A. Gwynne and G. W. Harris. Controlled by the National Gas Improvement Co., New York. Distinguishing feature in this, which is typical of its class, is an externally fired vertical retort, filled with carbon, through which steam is passed and decomposed. This is afterwards passed, with the addition of oil for enriching, through other retorts for fixing. This is one of the earliest of water gas processes, dating back to 1868. Some six or eight plants have been erected, about half of which are in operation.

JERZDANOWSKI "Baby" process:

Invention of ————— Controlled by U. S. Equitable Co. of New York. Distinguishing feature is the use of a "boot leg" shaped retort, externally fired, filled with limestone, or other refractory fixing substances, through which steam and oil are forced, decomposed into an illuminating water gas. This process has been introduced in some four or five works within the past four years.

The Portsmouth N. H., Gas Company says: "Nothing better than the *Thomson-Houston*." See advertisement, page x.

Figure A-3 continued

Appendix B

IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890 - 1950)

This appendix contains the detailed data concerning gas production, by-product production, and manufacturing processes reported for each decennial year for each plant. The following explains the information included under each column heading of the table:

City - This column heading contains the city name in which the reported plant is located. The cities are arranged first by chronological order (based on the first decennial year found in Brown's) and then alphabetically by city name. As mentioned above, there is almost always a one-to-one correspondence between city entries and plant sites. There were, however, instances where several sites were listed under a single city entry. This was usually a result of consolidation of nearby plants, which were listed separately in previous years. Thus, these previously listed plant sites are separately included in the total site tally (see Table 1). Although local addresses were reported in later editions of Brown's, these were not included since the reported address did not necessarily refer to the plant site (the address may refer to non-manufacturing locations: e.g, main office).

Year - This column lists the decennial years for which data were compiled (from 1890 to 1950). These years are repeated for each city entry.

Status - The symbol in this column (refer to legend) indicates the status for a particular year. The possibilities are that the plant (in that year):

1. Manufactured gas (*),
2. Purchased gas (P),
3. Only supplied natural gas (N),
4. Did not report data, or no information was found (0),
5. Discontinued operation (X), or
6. Was not yet in existence (blank)

Once it was determined that a plant was a natural gas supplier, solely a purchaser of gas, or discontinued gas manufacturing operations, data for subsequent years were not compiled. This is indicated by a "-" under the status column.

Gas Type - The entry under GAS TYPE indicates the specific type of manufactured gas: coal, water (or carburetted water), oil, or other. The definition of each gas type is given in Appendix A. It is possible that more than one type of gas was produced; this is indicated by multiple entries under GAS TYPE separated by commas. For example, the entry, "C,W", means that both coal and water gas were produced that year.

The gas type was usually either specified in the reported annual production or determined from the listing of process of manufacture. For example, the use of the Lowe process almost invariably indicates the production of water gas. When the gas type could not be determined from the available information, a "?" was entered under GAS TYPE. Occasional inconsistencies were found between the annual production and the process of manufacture information reported in Brown's. These were attributed to the subjective nature of the surveys, on which the reported data were based. In these cases, the annual production information was considered more reliable than the reported process of manufacture.

Gas Production Rates - Annual gas productions are reported separately for coal, water, oil, and other types of manufactured gas in units of million standard cubic feet under this column (rounded to the nearest MM scf). The production for carburetted water gas, which is essentially enriched water gas (see Appendix A), was included in the water gas column. "Other" types of manufactured gas usually referred to coke oven based gas. The sum of these productions for a particular plant is also shown for each year. This sum, however, does not include values enclosed in parentheses or brackets, which are discussed next. Whenever production data were not reported in Brown's, the following information was reported instead (listed in order of decreasing reliability):

1. Annual sales - This is usually equivalent to the annual production unless the company consumes (within the plant) or purchases significant amounts of gas.
2. Half of the maximum yearly output - The annual production can be estimated as 180 days/year times the maximum daily sendout, or one-half of the maximum annual output. This is based on a rule of thumb reported in Brown's. This estimate is shown in square brackets and is not included in the totals or average productions.
3. Population served - The annual production can be roughly estimated as one million cubic feet/1,000 of population served based on a judgment of the correlation between population served and gas production. This estimate is shown in parentheses (in units of 1,000 of population or million cubic feet of gas) in Table B-1 and is not included in the total or average productions. This information is reported only when the above data were unavailable.

Where none of the above information was available, a "?" is shown under this column.

Occasionally, only one production was reported in Brown's although it was determined that more than one gas type was being produced (almost always coal and water gas), as indicated in the GAS TYPE column. In these cases, it was assumed that coal gas was produced and the production was entered in this column.

Gasifier/Process - The process of manufacture or gasifier type is shown in this column as reported in Brown's. Due to the variety in water gas processes (See Appendix A), the particular water gas process was usually specified whereas details regarding the manufacture of coal gas were reported infrequently. The indication of a particular process does not signify that only the associated gas type is produced; the gases which are produced are shown in the GAS TYPE column.

By-Product Production Rate - The amounts of coke, tar, ammonia, or other by-products of concern are reported separately under this column. The sum of these by-product productions for each year was not calculated because each type of by-product production is reported in different units (refer to legend for corresponding units). As can be seen from Table B-1, such data were not available in Brown's until 1920. For a significant portion of the plants, the amounts of by-product made and sold were reported (most frequently for coke). In these cases, the net amount (difference between by-product made and sold) is reported (in parentheses) since it is this unaccounted for amount which is important in this study. When the amount sold is greater than the amount made, a "(-)" is shown. Such negative values can be attributed to sale of by-products produced either in other years or from non-gas manufacturing operations. The net values are not included in the calculated average. Unsold by-products are the materials which may have become wastes and disposed of.

Miscellaneous Information - Information typically shown in this column includes details of "other" types of gases or by-products, consolidations of companies, multiple sites, and unconventional feedstocks.

Average Productions - The average production rates shown in the last line of data for each plant are the calculated average values of the plant data reported directly above. Estimated gas production (as indicated by parentheses or brackets) or net by-product productions were not included in these calculated average values.

It should be noted that these values are averaged for only the years in which production of each particular type of gas was produced. The calculations used to arrive at these values were discussed in the subsection explaining Table 2.

LEGEND FOR TABLE B-1

STATUS

* - Manufactured gas for that year
X - Discontinued/Out of business that year
O - Not found for that year
C - Consolidated with another company (see comments)
N - Natural gas supplier for that year
P - Gas purchased from another firm that year

COMPANY

" - "City name"
G - Gas
E - Electric
F - Fuel
L - Light
H - Heat
P - Power
Mfg - Manufacturing
Co - Company

GAS TYPE

C - Coal gas
W - Water gas
CW - Carburetted water gas
O - Oil gas
N - Natural

GAS PRODUCTION RATE

- Production rate of gas in million standard cubic feet (MM scf)
(#) - Population served in 1,000 (reported when production unavailable)
[#] - Production rate estimated from 1/2 of maximum output (MM scf)

GASIFIER/PROCESS

F - Flannery
G - Granger
H-L - Hanlon
J - Jermanowski
J(B) - Jermanowski (baby)
J-L - Janeway-Logan (Oil)
K - Kendall (Oil)

LEGEND FOR TABLE B-1 (continued)

GASIFIER/PROCESS (Continued)

M-C - McKay-Critchelow
P - Patton (Oil)
S - Springer
S-G - Smith-Goldthorpe
V-Si - Van Sickel (Oil)
V-St - Van Steenburgh
W - Wilkinson

BY-PRODUCT PRODUCTION RATE

Coke - $a \times 10^3$ tons of coke produced that year;
(a) $\times 10^3$ tons of coke unaccounted for that year
(calculated as coke made minus coke sold).

Tar - $b \times 10^3$ gallons of tar produced that year.

Ammonia - $c \times 10^3$ lbs of ammonia produced that year.

Other - Amount of by-products, other than above, produced and reported that year (see MISCELLANEOUS INFORMATION for more details).

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ALABAMA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Birmingham	" GEL&P Co	1890	*	C	40				40						
			1900	*	C	54				54						
			1910	*	C	200				200						
			1920	*	C,W	200	590			790	Lowe					
			1930	P												
			1940	P												
			1950	P												
			AVERAGES:			124	590			271						
2	Decatur	" L&P Co	1890	*	C	?										
			1900	*	C	4				4						
			1910	*	C	5				5						
			1920	*	C	8				8		0	8			
			1930	*	C	30				30		2	25			
			1940	*	C	21				21		1	23			
			1950	*	C	24				24		1	25			
			AVERAGES:			15				15		1	20			
3	Eufaula	" GEL&P Co	1890	*	C	8				8						
			1900	*	C	5				5						
			1910	*	C	2				2						
			1920	*	C	2				2						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			4				4						
4	Huntsville	" GL&Coke Co	1890	*	C	?										
			1900	*	C	10				10						
			1910	*	C	12				12						
			1920	*	C	12				12			1	15		
			1930	*	C,CW	26				26			1	33		
			1940	*	C	26				26			1			
			1950	N												
			AVERAGES:			17				17			1	24		

STATE: ALABAMA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Mobile	" GL&Coke Co	1890	*	C	14				14						
			1900	*	C	20				20						
			1910	*	C	130				130						
			1920	*	C	295				295		17	318	30		
			1930	*	C, W	300	90			390	Lowe	15	325	34		
			1940	N	N											
			1950	N	N											
AVERAGES:						152	90		170		16	322	32			
6	Montgomery	" L Co	1890	*	C	32				32						
			1900	*	C	27				27						
			1910	*	C	68				68						
			1920	*	C	122				122		4	164	11		
			1930	*	C	?										
			1940	N												
			1950	N												
AVERAGES:						62			62		4	164	11			
7	Selma	" B&EL Co	1890	*	C	?										
			1900	*	C	12				12						
			1910	*	C	18				18						
			1920	*	C	22				22						
			1930	*	C	48				48						
			1940	N	N											
			1950	N	N											
AVERAGES:						25			25							
8	Talledega	" GL&W Co	1890	*	C	4				4						
			1900	*	C	3				3						
			1910	*	C	8				8						
			1920	*	C	16				16		1	10			
			1930	*	C	10				10		1	16			
			1940	O												
			1950	N												
AVERAGES:						8			8		1	13				

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ALABAMA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Anniston	* E&G Co	1890													
			1900	*	C	12				12						
			1910	*	C	15				15						
			1920	*	C	56				56		4		4		
			1930	*	C	?										
			1940	N												
			1950	N												
			AVERAGES:			20				20		4		4		
10	Florence	* GL&F Co	1890													
			1900	*	C	5				5						
			1910	*	C	12				12						
			1920	O												
			1930	*	C	13				13		1		17		
			1940	N												
			1950	N												
			AVERAGES:			10				10		1		17		
11	Bessemer	* Gas Co	1890													
			1900													
			1910	*	O			12		12						
			1920	*	C, O	22		7		29						
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:			22		10		21						
12	Gadsden	Tri City Gas Co	1890													
			1900													
			1910	*	C											Under construction (1910)
			1920	*	C	25				25						
			1930	*	C	40				40		1				
			1940	N												
			1950	N												
			AVERAGES:			33				33		1				

STATE: ALABAMA

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ARIZONA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Phoenix	" Illum G&EL Co	1890	*	0			4		4			0			229 Barrels Lampblack
			1900	*	0			6		6						
			1910	*	0			22		22						
			1920	*	0			163		163						
			1930	*	0			560		560						
			1940	N												
			1950	N												
			AVERAGES:					151		151			0			
2	Tombstone	" Gas Co	1890	*	0			2		2						
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					2		2						
3	Tucson	" Gas Co	1890	*	0			2		2						
			1900	*				0		0						
			1910	*				?								
			1920	*				25		25						
			1930	*				193		193						
			1940	N												
			1950	N												
			AVERAGES:					55		55						
4	Bisbee	"L&P Co	1890													
			1900													
			1910	*	0			17		17						
			1920	*	0			55		55						
			1930	*	0			74		74						
			1940	N												
			1950	N												
			AVERAGES:					49		49						

STATE: ARIZONA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Douglas	" G Corp	1890													
			1900													
			1910	*	0			14		14						
			1920	*	0			23		23						
			1930	*	0			52		52						
			1940	*	0			34		34						
			1950	N												
			AVERAGES:					31		31						
6	Globe	" EL&G Co	1890													
			1900													
			1910	*	0			?			Beal/Lowe					
			1920	*	0			15		15	"					
			1930	*	0			25		25	"					
			1940	*	0			10		10	"					
			1950	N												
			AVERAGES:					17		17						
7	Yuma	" G Co	1890													
			1900													
			1910	*	0			?			Beal					
			1920	*	0			?			"					
			1930	*	0			19		19	"					
			1940	*	0			18		18	"					
			1950	N												
			AVERAGES:					19		19						
8	Mesa	South Side Gas & E Co	1890													
			1900													
			1910													
			1920	*	0			10		10	Lowe					
			1930	*	0			21		21	Lowe					
			1940	N												
			1950	N												
			AVERAGES:					16		16						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ARIZONA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Nogales	Arizona G&E Co	1890													
			1900													
			1910													
			1920	*	0			?								
			1930	*	0			21		21	Lowe/S.S.					
			1940	N												
			1950	N												
			AVERAGES:					21		21						
10	Prescott	" G&E Co	1890													
			1900													
			1910													
			1920	*	0			30		30						
			1930	*	0			41		41	Lowe/S.S.					
			1940	0												
			1950	*												
			AVERAGES:					36		36						
11	Winslow	" GL&H Co	1890													
			1900													
			1910													
			1920	*	0			6		6	Beal					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					6		6						
12	Miami	Arizona Edison Co	1890													
			1900													
			1910													
			1920													
			1930	*	0			21		21	Jones					
			1940	*	0			6		6						
			1950	N												
			AVERAGES:					14		14						

STATE: ARKANSAS

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Eureka Springs	"	GL Co	1890	*	O			2		2				
				1900	O										
				1910	O										
				1920	-										
				1930	-										
				1940	-										
				1950	-										
				AVERAGES:				2	2						
2	Fort Smith	"	GL Co	1890	*	C		12			12				
				1900	*	C		12			12				
				1910	O										
				1920	O										
				1930	-										
				1940	-										
				1950	-										
				AVERAGES:				12			12				
3	Helena	"	GL Co	1890	*	C		?							
				1900	*	C		5			5				
				1910	*	C		12			12				
				1920	*	C		28			28	(2)	20		
				1930	*	W		39		39	LOWE				
				1940	*	W		23		23	"				
				1950	O										
				AVERAGES:				15	31		21		20		
4	Hot Springs	"	Garland GL Co	1890	*	C		?							
				1900	*	C		12		12	LOWE (S)				
				1910	*	W		22		22	"				
				1920	O										
				1930	O										
				1940	-										
				1950	-										
				AVERAGES:				17		17					

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ARKANSAS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	Coke	Tar	Ammonia	Other	MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total						
5	Hot Springs	Hydrocarbon Fixed Gas Co	1890	*	C	?										
			1900	X												
			1910	0												
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:													
6	Little Rock	Pulaski GL Co	1890	*	C	?										
			1900	*	W	43				43						
			1910	*	W	110				110						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				77			77						
7	Pine Bluff	" GL Co	1890	*	?					?						
			1900	*						3						
			1910	*						10						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:							7						
8	Texarkana	G&EL Co	1890	*	C	7				7						
			1900	*	C	10				10						
			1910	X												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				9			9						

STATE: ARKANSAS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Newport	W, L & P Co	1890													
			1900													
			1910	*	?					(6)						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:													

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Benicia	" B Co	1890	*	?					1						
			1900	*												
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:							1						
2	Chico	" B EL Co	1890	*	C	4				4						
			1900	*	W		2			2	Lowe					
			1910	*	0			36		36	Jones					1910: Pacific G&E Co.
			1920	*	0			?								
			1930	X												
			1940	-												
			1950	-												
			AVERAGES:			4	2	36		14						
3	Colusa	" B Co	1890	*	C	(2)										
			1900	*	C	2				2						
			1910	*	W		14			14						
			1920	*	0		?									
			1930	*	0		31			31						
			1940	0												
			1950	0												
			AVERAGES:			2	23			16						
4	Eureka	" B Co	1890	*	C	5				5						
			1900	*	C	3				3						
			1910	0												
			1920	*	0			21		21						
			1930	*	0			55		55						
			1940	*	0			95		95						
			1950	0												
			AVERAGES:			4		57		36						

STATE: CALIFORNIA

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Hollister	" GCo	1890	*	C	(4)										
			1900	*	C	1				1						
			1910	*	O			5		5	Low					
			1920	*	O			9		9						
			1930	*	O			34		34						
			1940	O												
			1950	O												
			AVERAGES:			1		16		12						
10	Jackson	" BCo	1890	*	?				(4)							Gasoline feedstock
			1900	*	C	2				2						
			1910	*	C	2				2						
			1920	*	C	2				2						
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:			2				2						
11	Livermore	" GCo	1890	*	C	(3)										
			1900	*	C	1				1						
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			1				1						
12	Los Angeles	" Lighting Co	1890	*	C,O	?			?	(80)						
			1900	*	C,O	?			?							
			1910	*	C,O	280			2,520	2,800						
			1920	*	C,O	?			?	2,900						
			1930	N												Standby plant (2 oil gasifier
			1940	O												
			1950	O												
			AVERAGES:			280			2,520	2,850						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Marysville	* Coal B Co	1890	*	C	1				1						
			1900	*	W		20			20						
			1910	*	W		42			42						
			1920	*	W		?									
			1930	*	W		272			272						
			1940	0												
			1950	0												
			AVERAGES:			1	111			84						
14	Merced	* ELB Co	1890	*	C	1				1						
			1900	*	C	3				3						
			1910	*	0			8		8						
			1920	*	0			20		20						
			1930	*	0			93		93						
			1940	0												
			1950	0												
			AVERAGES:			2		40		25						
15	Modesto	* GL Coal & Coke Co	1890	*	C	2				2						
			1900	*	C	4				4						
			1910	*	0			12		12						
			1920	*	0			59		59						
			1930	*	0			145		145						
			1940	0												
			1950	0												
			AVERAGES:			3		72		44						
16	Napa City	* GL&H Co	1890	*	C	0				0						
			1900	*	C	4				4						
			1910	*	0			12		12	Lowe					Pacific G&E Co.
			1920	*	0			35		35						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			2		24		13						

TABLE D-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Nevada City	Nevada GL Co	1890	*	C	7										Shale and pitch feedstock
			1900	*	C	1				1						Became part of Pacific E&G
			1910	X												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			1				1						
18	Oakland	" GL Co	1890	*	C	(60)										
			1900	*	C	150				150						
			1910	*	O			1,440		1,440	Low					
			1920	*	O			3,500		3,500						
			1930	*	O			5,066		5,066						
			1940	O												
			1950	O												
			AVERAGES:			150		3,335		2,539						
19	Oroville	" B Co	1890	*	C	3				3	Low					
			1900	*	C	2				2						
			1910	*	C	6				6						
			1920	*	C	23				23						
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:			9				9						
20	Pasadena	" B&EL Co	1890	*	C	(10)										
			1900	*	C	5				5						
			1910	C												Consolidated with Los Angeles
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:			5				5						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21	Placerville	* GL Co	1890	*	?					(2)						
			1900	X												
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
22	Petaluma	* GL Co	1890	*	C		1			1						
			1900	*		C	3			3						
			1910	X												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:										2		2	
23	Pomona	* GL Co	1890	*	C		(5)									
			1900	*		C	4			4						
			1910	*			0	28			28				Lowe	
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:										16		16	
24	Red Bluff	* ELB Co	1890	*	C		2			2						
			1900	*		C	3			3						
			1910	*			(3)									
			1920	*				0			70	70			Lowe	
			1930	*					0			33	33			Lowe & Jones
			1940	*						0			30	30		
			1950	0												
			AVERAGES:										3		44	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
25	Sacramento			Capitol Gas Co	1890	*	C		60						
					1900	*	C		40						
					1910	*	O		213	213	Lowe				Pacific G&E Co.
					1920	*	O		423	423					
					1930	*	O		1,624	1,624	Lowe & Jones				
					1940	O									
					1950	O									
					AVERAGES:				50	753	472				
26	St. Helena			" G Co	1890	*	C		?						
					1900	*	C		2						
					1910	*	O		1	1	Van Sickle				
					1920	*	O		1	1	" "				
					1930	O									
					1940	O									
					1950	-									
					AVERAGES:				2	1	1				
27	Salinas City			" GM Co	1890	*	C		?						
					1900	O									
					1910	O									
					1920	O									
					1930	-									
					1940	-									
					1950	-									
					AVERAGES:										
28	San Bernardino			" GL Co	1890	*	C		?						
					1900	*	C		5	5					
					1910	*	W		260	260	Lowe				
					1920	*	W		131	131	"				
					1930	O									
					1940	O									
					1950	-									
					AVERAGES:				5	196	132				

TABLE D-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
29	San Diego	* G&EL Co	1890	*	W			?			Springer					
			1900	*	W			25		25	"					
			1910	*	W			220		220	Lowe					
			1920	*	W			1,400		1,400	"					
			1930	*	W			2,696		2,696	"				637	
			1940	0												
			1950	0												
			AVERAGES:					1,085		1,085					637	
30	San Francisco	Pacific Gas Improve Co	1890	*	C			?								
			1900	*	C			300		300						
			1910	*	W			3,000		3,000						
			1920	*	W			6,100		6,100						
			1930	*	W			7,045		7,045						
			1940	0												
			1950	0												
			AVERAGES:					300	5,382	4,111						
31	San Francisco	* GL Co	1890	*	W			?			H-L					
			1900	*	W			880		880	Lowe					
			1910	C												Cons. w/Pacific (S.F)
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:					880		880						
32	San Jose	* LP Co	1890	*	C, W			(20)								
			1900	*	C, W			30		30						
			1910	*	W			167		167						
			1920	*	W			355		355						
			1930	*	W			879		879						
			1940	0												
			1950	0												
			AVERAGES:					30	467	358						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
33	San Luis Obispo	* GL Co	1890	*	C	2				2						
			1900	*	C	1				1						
			1910	*	W		12			12						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			2	12			5						
34	San Leandro	* G&EL Co	1890	*	0			(3)								
			1900	*	0			1		1						
			1910	*	W		15			15	Low					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				15	1		8						
35	San Rafael	* G&EL Co	1890	*	C	7				7						
			1900	*	C	1				1						
			1910	*	W		28			28	Low					
			1920	*	W		93			93	"					
			1930	*	W		788			788						
			1940	0												
			1950	0												
			AVERAGES:			4	303			183						
36	Santa Barbara	* EL Co	1890	*	C	7										
			1900	*	C	6				6						
			1910	*	W		51			51	Low					
			1920	*	W		245			245	"					
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:			6	148			101						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
41	Vallejo	" GL Co	1890	*	C	6				6						
			1900	*	C	7				7						
			1910	*	W		34			34	Lowe					Became part of Pacific E&G
			1920	*	W		124			124						
			1930	*	W		337			337						
			1940	0												
			1950	0												
			AVERAGES:			7	165			102						
42	Visalia	" GL Co	1890	*	?					(3)						
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
43	Watsonville	" Maxim G Co	1890	*	C	(3)										
			1900	*	C	20				20						
			1910	*	W		14			14						
			1920	*	W		26			26						
			1930	*	W		97			97						
			1940	0												
			1950	-												
			AVERAGES:			20	46			39						
44	Woodland	Consolidated EL&P Co	1890	*	C	1				1						
			1900	*	C	3				3						
			1910	*	W		12			12						Became part of Pacific E&G
			1920	*	W		30			30						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			2	21			12						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
45	Yreka	" GL Co	1890	*	?					(2)						Wood feedstock
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
46	Bakersfield	" G&EL Co	1890													
			1900	*	C,W	5				5	Lowe					
			1910	*	W		[27]				"					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:													
						5				5						
47	Los Gatos	" G Co	1890													
			1900	*	C	1				1						
			1910	*	W		5			5	W.G. Const.					
			1920	*	W		14			14						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:													
						1	10			7						
48	Riverside	" G&EL Co	1890													
			1900	*	C	6				6						
			1910	*	W		38			38	McCollum					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:													
						6	38			22						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Dil	Coke	Total		Coke	Tar	Ammonia	Other	
49	San Francisco	Equitable GL Co	1890												
			1900	*	C	365			365	Hall					Cons. w/Pacific Improve.Co
			1910	C											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			365			365						
50	Santa Ana	" B&E Co	1890												
			1900	*	C	7			7	Holmes					
			1910	*	O			29	29	Lowe					
			1920	O											
			1930	O											
			1940	-											
			1950	-											
			AVERAGES:			7		29	18						
51	Santa Monica	" EB&P Co	1890												
			1900	*	W		2		2	Lowe					
			1910	*	O			60	60	Lowe					
			1920	O											
			1930	O											
			1940	-											
			1950	-											
			AVERAGES:				2	60	35						
52	Selma	" G Co	1890												
			1900	*	W		25		25	Sp					
			1910	O			12		12	Sp					
			1920	*	W										
			1930	O											
			1940	O											
			1950	-											
			AVERAGES:				19		19						

STATE: CALIFORNIA

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
57	Inglewood	" B Co	1890													
			1900													
			1910	*	0				18	18						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:						18	18						
58	Long Beach	" B Co	1890													
			1900													
			1910	*	0				25	25	New Lowe					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:						25	25						
59	Long Beach	So. Cal. Edison Co.	1890													
			1900													
			1910	*	0				85	85	Lowe					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:						85	85						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
60	Los Angeles	Domestic Gas Co of LA	1890													
			1900													
			1910	*	0			(325)			Berkeley					
			1920	*	0			780		780	"					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					780		780						
61	Los Angeles	Economic Gas Co	1890													
			1900													
			1910	*	0			?			Lowe					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:													
62	Monterey	" County G&E Co	1890													
			1900													
			1910	*	0			15		15	Lowe					
			1920	*	0			37		37	"					
			1930	*	0			147		147	"					
			1940	0												
			1950	0												
			AVERAGES:					66		66						
63	Oxnard	Ventura County P Co	1890													
			1900													
			1910	*	0			44		44	Lowe					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:					44		44						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
64	Palo Alto	* G Co	1890												
			1900												
			1910	*	0			(6)							
			1920	P											Gas from Pacific
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:												
65	Pasadena	Valley B&Fuel Co	1890												
			1900												
			1910	*	0			45		45					
			1920	0											
			1930	0											
			1940	-											
			1950	-											
			AVERAGES:					45		45					
66	Redding	No Calif Power Co	1890												
			1900												
			1910	*	0			(4)							Low
			1920	*	0			9		9					"
			1930	*	0			44		44					"
			1940	*	0			50		50					"
			1950	0											
			AVERAGES:					34		34					
67	Redlands	Hemet-San Jacinto G Co	1890												
			1900												
			1910	*	0			7		7					
			1920	0											
			1930	0											
			1940	-											
			1950	-											
			AVERAGES:					7		7					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
68	Redwood	Pacific G&E Co, Redwood		1890											
				1900											
				1910	*	0			46		46	Lowe (J)			
				1920	*	0			462		462	"			
				1930	0										
				1940	0										
				1950	-										
				AVERAGES:					254		254				
69	Salinas	Monterey County G&E Co		1890											
				1900											
				1910	*	0			13		13	Lowe			
				1920	*	0			17		17	"			
				1930	N										
				1940	N										
				1950	N										
				AVERAGES:					15		15				
70	San Pedro	So Calif Edison Co		1890											
				1900											
				1910	*	0			8		8	Lowe			
				1920	0										
				1930	0										
				1940	-										
				1950	-										
				AVERAGES:					8		8				
71	Santa Clara	" Municipal Gas Works		1890											
				1900											
				1910	*	0			15		15	Lowe			
				1920	*	0			28		28	"			
				1930	0										
				1940	0										
				1950	-										
				AVERAGES:					22		22				

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
72	Visalia	Consolidated H&P Co	1890												
			1900												
			1910	*	0		18	18	W.G.Cons.						
			1920	*	0		110	110							
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:				64	64							
73	Avalon (Santa Catalina Island)	City of Avalon	1890												
			1900												
			1910												
			1920	*	0		?								
			1930	*	0		?								
			1940	N											
			1950	N											
			AVERAGES:												
74	Beaumont	Twin Cities G Co	1890												
			1900												
			1910												
			1920	*	0		?								
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:												
75	Dinuba	Alta District G Co	1890												
			1900												
			1910												
			1920	*	0		22	22							
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:				22	22							

STATE: CALIFORNIA

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1898-1958)

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
76	El Centro	Imperial Valley G Co	1890													
			1900													
			1910													
			1920	*	0			40		40						
			1930	*	0			(30)								
			1940	0												
			1950	0												
			AVERAGES:					40		40						
77	Fowler	" G Co	1890													
			1900													
			1910													
			1920	*	0			3		3	Lowe					
			1930	*	0			(2)			"					
			1940	0												
			1950	0												
			AVERAGES:					3		3						
78	Hemet	Southwestern G Co	1890													
			1900													
			1910													
			1920	*	0			8		8						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					8		8						
79	Madera	" G Co	1890													
			1900													
			1910													
			1920	*	0			12		12	Lowe					
			1930	*	0			25		25	"					
			1940	0												
			1950	0												
			AVERAGES:					19		19						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
80	Needles	* G&E Co	1890													
			1900													
			1910													
			1920	*	0			9		9	LOWE					
			1930	*	0			2		2	"					
			1940	0												
			1950	0												
			AVERAGES:					6		6						
81	Nevada	Pacific G&E Co, Nevada	1890													
			1900													
			1910													
			1920	*	0			20		20	Jones					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					20		20						
82	Oakdale	* G Co	1890													
			1900													
			1910													
			1920	*	0			10		10						
			1930	*	0			14		14						
			1940	0												
			1950	0												
			AVERAGES:					12		12						
83	Parlier	River Bend G&W Co	1890													
			1900													
			1910													
			1920	*	0			12		12						
			1930	X												
			1940	-												
			1950	-												
			AVERAGES:					12		12						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
84	Pittsburg	Contra Costa G Co	1890													
			1900													
			1910													
			1920	*	0			58		58	Jones					
			1930	*	0			146		146						
			1940	0												
			1950	0												
			AVERAGES:					102		102						
85	Sacramento	" G Co	1890													
			1900													
			1910													
			1920	*	0			166		166	Lowe					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					166		166						
86	Turlock	" G Co	1890													
			1900													
			1910													
			1920	*	0			20		20	Beal					
			1930	*	0			30		30	"					
			1940	0												
			1950	0												
			AVERAGES:					25		25						
87	Ukiah	" G Co	1890													
			1900													
			1910													
			1920	*	0			7		7	Beal					
			1930	*	0			(2)			"					
			1940	0												
			1950	0												
			AVERAGES:					7		7						

TABLE 8-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CALIFORNIA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)			GASIFIER/	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION	
					Coal	Water	Oil		Coke	Total	PROCESS	Coke		Tar
88	Ventura	So Calif Edison Co	1890											
			1900											
			1910											
			1920	+	0		50	50	Low					
			1930	0										
			1940	-										
			1950	-										
			AVERAGES:				50	50						
89	Willows	No Calif P Co	1890											
			1900											
			1910											
			1920	+	0		13	13	Jones					
			1930	+	0		37	37	"					
			1940	0										
			1950	0										
			AVERAGES:				25	25						
90	Escondido	San Diego Cons G&E Co	1890											
			1900											
			1910											
			1920											
			1930	+	0		15	15	S.S.					
			1940	0										
			1950	0										
			AVERAGES:				15	15						
91	Oceanside	South Coast G Co	1890											
			1900											
			1910											
			1920											
			1930	+	0		25	25						
			1940	0										
			1950	0										
			AVERAGES:				25	25						

STATE: COLORADO

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Colorado Springs	Lowe G&E Co	1890	*	C	(12)										
			1900	*	C	36				36						
			1910	*	C	90				90						
			1920	*	C,W	122	13			135	Lowe	(7)		119	8	
			1930	*	C,W	135	0			135	"					
			1940	N												
			1950	N												
			AVERAGES:			96	7			99				119	8	
2	Denver	The Denver Gas Co	1890	*	C	210				210						
			1900	*	C	300				300						
			1910	*	C,W	735	245			980	Lowe					
			1920	*	C,W	1,330	540			1,870	"	(70)			331	
			1930	0												
			1940	N												
			1950	N												
			AVERAGES:			644	393			840					331	
3	Georgetown	" G Co	1890	*	0			2		2						
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					2		2						
4	Gunnison	" G&W Co	1890	*	C	4				4						
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			4				4						

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: COLORADO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Leadville	" Illum G Co	1890	*	C	20				20						
			1900	0												
			1910	*	C	8				8						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			14				14						
6	Monte Vista	" E&L Co	1890	*	?					(2)						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
7	Pueblo	" G&L Co	1890	*	C	(30)										
			1900	*	C	30				30						
			1910	*	C, W	81	9			90	Lowe					
			1920	*	C, W	140	7			147	"	(7)	120		22	
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			84	8			89			120		22	
8	Trinidad	" G Co	1890	*	C	6				6						
			1900	*	C	7				7						
			1910	*	C	20				20						
			1920	*	C	17				17						
			1930	*	C	23				23			1		9	
			1940	*	C	22				22			1		8	
			1950	X												
			AVERAGES:			16				16			1		9	

STATE: COLORADO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Canon City	" G Co	1890													
			1900													
			1910	*	W			8		8						
			1920	*	W			1		1						
			1930	*	W			7		7						
			1940	*	W			8		8						
			1950	N												
			AVERAGES:					6		6						
10	Fort Collins	Poudre Valley G Co	1890													
			1900													
			1910	*	O			17		17	P-E					
			1920	*	O			33		33						
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:					25		25						
11	Grand Junction	" EG&Mfg Co	1890													
			1900													
			1910	*	C			12		12						
			1920	*	C			23		23		(1)		22		
			1930	*	C			38		38			2	30		
			1940	*	C			24		24			1	17		
			1950	*	C			35		35			2	31		
			AVERAGES:					26		26			2			
12	Greely	" G&E Co	1890													
			1900													
			1910	*	C			12		12						
			1920	*	C			44		44		(2)		31		
			1930	*	C			69		69						
			1940	O												
			1950	O												
			AVERAGES:					42		42						

TABLE D-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: COLORADO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
13	Boulder	Federal Gas Co	1890												
			1900												
			1910												
			1920	*	0			60		60	Jones				
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:					60		60					
14	La Junta	Otero Gas Co	1890												
			1900												
			1910												
			1920	*	0			18		18	Beal				
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:					18		18					
15	Sterling	Central States E Co	1890												
			1900												
			1910												
			1920												
			1930												
			1940	*	CW			7		7					
			1950	0											
			AVERAGES:					7		7					

STATE: CONNECTICUT

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Birmingham	Derby & Co	1890	*	C	36				36						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			36				36						
2	Bridgeport	The " GL Co	1890	*	W		(50)				Low					
			1900	*	W		?				"					
			1910	*	W		390			390	"					
			1920	*	W		1,210			1,210	"		330			
			1930	*	W		1,418			1,418	"		963			
			1940	*	W		1,523			1,523	"		1,358			
			1950	*	W		2,800			2,800	"		2,628			
			AVERAGES:				1,468			1,468			1,320			
3	Danbury	" & Bethel G&EL Co	1890	*	W		(18)									
			1900	*	W		40			40						
			1910	*	W		(25)									
			1920	*	W		114			114						
			1930	*	C, W		221	880		1,101		(6)	173			
			1940	*	C, W		190	34		224		11	62			
			1950	P												
			AVERAGES:				141	457		370		11	118			
4	Danielsonville	Killingly EL Co	1890	*	W		(4)				Edg					
			1900	*	W		2			2	"					
			1910	*	W		4			4	Low					
			1920	*	W		5			5	"					Cons. w/ Hartford
			1930	C												
			1940	-												
			1950	-												
			AVERAGES:				4			4						

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CONNECTICUT

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Hartford	" City GL Co	1890	*	C	(50)										
			1900	*	C	225				225						
			1910	*	C	520				520						
			1920	*	C,W	404	682			1,086	Lowe	(22)	698	143		
			1930	*	W		589			589	"		530			
			1940	*	P											
			1950	*	W		959			959	Lowe					
			AVERAGES:			383	743			676			614	143		
6	Meridan	" GL Co	1890	*	C	1				1						
			1900	*	C	48				48						
			1910	*	C,W	62	62			124						
			1920	*	C,W	230	40			270		(16)	238	48		
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			85	51			111			238	48		
7	Middletown	" GL Co	1890	*	W		10			10	Lowe					
			1900	*	W		20			20	"					
			1910	*	W		36			36	"					
			1920	*	W		94			94	"					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				40			40						
8	New Britain	" GL Co	1890	*	C	20				20						
			1900	*	C	33				33						
			1910	*	C,W	70	70			140						
			1920	*	W	317				317						
			1930	*	W	456				456						
			1940	*	W	352				352						
			1950	*	W	638				638						
			AVERAGES:			269	70			279						

STATE: CONNECTICUT

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	New Hartford	" GL Co	1890	*	W		?				Lowe					
			1900	*	W		2			2	"					
			1910	*	W		2			2	"					
			1920	*	W		1			1	"					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				2			2						
10	New London	" GL Co	1890	*	W		(12)									
			1900	*	W		(18)									
			1910	*	W		52			52						
			1920	*	W		153			153				38		
			1930	*	W		356			356				137		
			1940	*	W		327			327				178		
			1950	*	CW		397			397						
			AVERAGES:				257			257				118		
11	Norwalk	" GL Co	1890	*	C		12			12						
			1900	*	C		21			21						
			1910	*	C		52			52						
			1920	*	W			83		83						
			1930	C												Cons. w/Hartford (CT P&L Co)
			1940	-												
			1950	-												
			AVERAGES:				28	83		42						
12	Norwich	" City G Co	1890	*	W		(20)				Lowe					
			1900	*	W		21			21	"					
			1910	*	C, W	33	7			40	"					
			1920	*	C, W	0	84			84	"		(50)			
			1930	*	CW		182			182	"					
			1940	*	CW		181			181	"			180		
			1950	*	CW		374			374	"			253		Semet-Solvay Reverse Flow
			AVERAGES:			16	142			147						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: CONNECTICUT

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Putnam	L&P Co	1890	*	W		3			3	M-C					
			1900	*	W		4			4	Lowe					
			1910	*	W		9			9	"					
			1920	*	W		21			21	"					
			1930	C												Cons. w/Hartford
			1940													
			1950													
			AVERAGES:				9			9						
14	Rockville	" GL Co	1890	*	W		(7)				Lowe					
			1900	*	W		12			12	"					
			1910	*	W		18			18	"					
			1920	*	W		20			20	"					
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:				17			17						
15	Stanford	" GL Co	1890	*	W		20			20	J					
			1900	*	W		22			22	J					
			1910	*	W		75			75	Lowe					
			1920	*	W		250			250	"	(15)	790			
			1930	*	W		(44)				"	(13)	834			
			1940	*	C,W	432	425			857	"					Coal:Glover West Vertical Pro
			1950	*	C,W	300	784			1,084	"					
			AVERAGES:			366	263			385			812			
16	Wallingford	" GL Co	1890	*	W		2			2	Edg					
			1900	*	W		7			7	"					
			1910	*	W		15			15	Lowe					
			1920	*	W		40			40	"					
			1930	*	W		64			64	"					
			1940	*	CW		75			75	"					
			1950	*	CW		170			170	"		59			
			AVERAGES:				53			53			59			

STATE: CONNECTICUT

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Waterbury	"	GL Co	1890	*	W		(28)		Low					
				1900	*	W		106	106	"					
				1910	0										
				1920	*	W		603	603	"					
				1930	*	C, W	396	510	906	"	(21)	341	145		
				1940	0										
				1950	0										
				AVERAGES:			396	406	538			341	145		
18	Willimantic	"	G Co	1890	*	W		5	5	H-L					
				1900	*	W		6	6	Evans					
				1910	*	C	17		17						
				1920	*	C	22		22						
				1930	*	C	(8)								
				1940	0										
				1950	0										
				AVERAGES:			20	6	13						
19	Winsted	"	G Co	1890	*	W		2	2	Gr					
				1900	*	W		6	6						
				1910	*	W		23	23						
				1920	*	W		34	34						
				1930	*	W		55	55						
				1940	0										
				1950	0										
				AVERAGES:			24		24						
20	Bridgeport	"	Citizen's G Co	1890											
				1900	*	0		200	200	Loomis					
				1910	0										
				1920	0										
				1930	-										
				1940	-										
				1950	-										
				AVERAGES:				200	200						

1

STATE: CONNECTICUT

[illegible]

STATE: CONNECTICUT

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
25	Torrington	" GL Co	1890													
			1900	*	W			75		75	Low					
			1910	*	W			43		43	"					
			1920	*	W			65		65	"					
			1930	*	W			(22)			"					
			1940	*	W			143		143	"					
			1950	*	CW			176		176	"					
			AVERAGES:					100		100						
26	Bristol	" Plainville Tramway Co	1890													
			1900	*	W			17		17						
			1910	*	W			102		102						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:					60		60						
27	Hartford	CT L&P Co	1890													
			1900													
			1910													
			1920													
			1930	*	CW			311		311			106			
			1940	*	CW			1,580		1,580						
			1950	*	CW			2,997		2,997						
			AVERAGES:					1,629		1,629			106			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: DELAWARE

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Dover	* GL Co	1890	*	C	5				5						
			1900	*	C	5				5						
			1910	*	W		14			14	LOWE					
			1920	*	W		21			21	"					
			1930	*	W		36			36	"					
			1940	*	W		49			49	"					
			1950	N												
			AVERAGES:			5	30			22						
2	New Castle	* G Co	1890	*	C	3				3						
			1900	*	C	4				4						
			1910	*	C	4				4						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			4				4						
3	Smyrna	* Coal, G&Coke Co	1890	*	C	3				3						
			1900	*	C	3				3						
			1910	*	C	4				4						
			1920	*	C	4				4		0	5	0		
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			4				4		0	5	0		
4	Wilmington	* Coal G Co	1890	*	C	120				120						
			1900	*	C, O	153	51			204						
			1910	*	W		300			300	LOWE					
			1920	*	W		848			848	"			(640)		
			1930	*	W		1,200			1,200	"			874		
			1940	P												
			1950	P												
			AVERAGES:			137	600			534				874		

STATE: DELAWARE

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Georgetown	" G Co	1890													
			1900													
			1910	*	C	5				5						
			1920	*	W		4			4						
			1930	*	W		?									
			1940	*	W		5			5						
			1950	N												
			AVERAGES:			5	5			5						
6	Lewes	" G Co	1890													
			1900													
			1910													
			1920	*	W		2			2						
			1930	0												
			1940	0												
			1950	0												
			AVERAGES:				2			2						
7	Seaford	Sussex G Co	1890													
			1900													
			1910													
			1920	*	0			13		13	Lowe					
			1930	P												
			1940	0												
			1950	0												
			AVERAGES:					13		13						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: DISTRICT OF COLUMBIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Georgetown	" GL Co	1890	*	C	30				30						
			1900	*	C	46				46						
			1910	*	C	93				93						
			1920	*	W		36			36	Lowe					
			1930	P												
			1940	O												
			1950	N												
			AVERAGES:			56	36			51						
2	Washington, D.C.	" GL Co	1890	*	W		700			700	Lowe (F)					
			1900	*	W		1,135			1,135	W					
			1910	*	W		2,300			2,300	Lowe					
			1920	*	W		4,600			4,600	"					
			1930	*	CW		6,390			6,390	"					
			1940	*	CW		12,406			12,406	"				3,810	
			1950	N											2,338	
			AVERAGES:				4,589			4,589					3,074	

STATE: FLORIDA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Gainesville	" GEL Co	1890	*	C	5				5						
			1900	*	C	3				3						
			1910	*	W		4			4	Su					
			1920	*	W		10			10						
			1930	*	W		20			20						
			1940	*	CW		30			30						
			1950	*	CW		136			136						
			AVERAGES:			4	42			31						
2	Jacksonville	" G&E Co	1890	*	W		20			20						
			1900	*	W		22			22						
			1910	*	W		130			130						
			1920	*	C, W	352	97			449		(23)	350		295	
			1930	*	C, W	236	367			603		12	218			
			1940	*	CW		476			476			904			
			1950	*	CW		925			925		1,076				
			AVERAGES:			294	291			375		544	491		295	
3	Key West	" GEL Co	1890	*	O			(10)								
			1900	O												
			1910	O												
			1920	*	W		71			71			(17)			
			1930	*	W		56			56						
			1940	*	CW		46			46						
			1950	N												
			AVERAGES:				58			58						
4	Orlando	So Florida G Co	1890	*	W		(6)									
			1900	*	W		4			4						
			1910	*	C, W	3	3			6						
			1920	*	W		17			17						
			1930	*	W		169			169						
			1940	*	CW		230			230						
			1950	*	CW		492			492			500			
			AVERAGES:			3	153			153			500			

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: FLORIDA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Palatka	* GL&Fuel Co	1890	*	C	4				4						
			1900	*	C	3				3						
			1910	*	W		3			3	Lowe					
			1920	*	W		7			7	"					
			1930	*	W		11			11	"					
			1940	O												
			1950	O												
			AVERAGES:			4	7			6						
6	Pensacola	* B Co	1890	*	W		(15)									
			1900	*	W		17			17						
			1910	*	W		45			45						
			1920	*	W		86			86				19		
			1930	*	W		100			100				86		
			1940	N												
			1950	N												
			AVERAGES:				62			62				53		
7	Sanford	* L&Fuel Co	1890	*	W		3			3						
			1900	*	W		3			3						
			1910	*	W		9			9						
			1920	*	W		7			7						
			1930	*	W		(10)									
			1940	*	CW		50			50						
			1950	*	CW		93			93						
			AVERAGES:				29			29						
8	St Augustine	* GAEL Co	1890	*	W		12			12						
			1900	*	W		17			17						
			1910	*	W		30			30						
			1920	*	W		45			45				13		
			1930	*	W		77			77						
			1940	*	CW		50			50						
			1950	*	CW		93			93						
			AVERAGES:				47			47				13		

STATE: FLORIDA

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: FLORIDA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Miami	" G Co	1890													
			1900													
			1910	*	O			15		15	J-L					
			1920	*	O			80		80	"					
			1930	*	W		386			386						
			1940	*	W		540			540						
			1950	*	W		1,162			1,162						
			AVERAGES:				696	48		437						
14	Daytona	" Public Serv Co	1890													
			1900													
			1910													
			1920	*	W		26			26	Lowe					
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:				26			26						
15	Lakeland	" G Co	1890													
			1900													
			1910													
			1920	*	W		13			13	Lowe					
			1930	*	W		64			64	"					
			1940	O												
			1950	O												
			AVERAGES:				39			39						
16	St Petersburg	" Municipal G Plant	1890													
			1900													
			1910													
			1920	*	W		55			55	Lowe			30		
			1930	*	W		277			277	"			150		
			1940	*	CW		376			376	"					
			1950	*	CW		786			786	"					
			AVERAGES:				374			374				90		

STATE: FLORIDA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Bradenton	Southern G&E Corp		1890											
				1900											
				1910											
				1920											
				1930	*	W		42		42					
				1940	*	CW		65		65					
				1950	*	W		77		77					
				AVERAGES:				61		61					
18	Clearwater	" Municipal G Dept		1890											
				1900											
				1910											
				1920											
				1930	*	W		(11)		Tenney					
				1940	*	CW		90		90	"				
				1950	*	W		180		180	"				
				AVERAGES:				135		135					
19	Fort Lauderdale	" G Co		1890											
				1900											
				1910											
				1920											
				1930	*	W		8		8					
				1940	0										
				1950	0										
				AVERAGES:				8		8					
20	Fort Myers	Commission of City of "		1890											
				1900											
				1910											
				1920											
				1930	*	W		(10)							
				1940	*	W		40		40					
				1950	*	W		90		90					
				AVERAGES:				65		65					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: FLORIDA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia	
21	Miami Beach	G Co of "	1890											
			1900											
			1910											
			1920											
			1930	*	W		(15)							
			1940	*	CW		389			389				
			1950	*	CW		1,372			1,372				
			AVERAGES:				881			881				
22	West Palm Beach	Florida Public Util Co	1890											
			1900											
			1910											
			1920											
			1930	*	W		177			177		50		
			1940	*	W		264			264				
			1950	*	W		535			535				
			AVERAGES:				325			325		50		
23	Winter Haven	" GL Co	1890											
			1900											
			1910											
			1920											
			1930	P										
			1940	*	CW		49			49				
			1950	*	CW		120			120				
			AVERAGES:				85			85				

STATE: GEORGIA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft. /YR)					BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Americus	"	L&P Co	1890	*	W			(10)		Su				
				1900	*	W			7		7	"			
				1910	*	W			18		18				
				1920	*	W			20		20		2	23	
				1930	*	W			22		22		(1)	21	
				1940	*	CW			8		8				
				1950	O	W			4		4				
				AVERAGES:					13		13		2	22	
2	Athens	"	GL Co & E Co	1890	*	C			(10)						
				1900	*	C			6		6				
				1910	*	C			18		18				
				1920	*	C			38		38		2	36	
				1930	*	C			50		50		2	53	
				1940	*	C			71		71				
				1950	N										
				AVERAGES:					37		37		2	45	
3	Atlanta	"	GL Co	1890	*	C			105			105			
				1900	*	C			303		303				
				1910	*	W			678		678				
				1920	*	W			1,400		1,400			966	125
				1930	*	C,W			547	1,388	1,935	(26)	1,300	140	
				1940	N										
				1950	N										
				AVERAGES:					318	1,155	884		1,133	133	
4	Atlanta		Gate City GL Co	1890	*	W			37			37			
				1900	O										
				1910	O										
				1920	-										
				1930	-										
				1940	-										
				1950	-										
				AVERAGES:					37		37				

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: GEORGIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Augusta	" GL Co	1890	*	C	(50)										
			1900	*	C	25					25					
			1910	*	W	98					98	Lowe				
			1920	*	W	180					180					
			1930	*	W	229					229		62			
			1940	*	W	250					250					
			1950	*	W	759					759					
			AVERAGES:			25	303	257						62		
6	Brunswick	" L&Water Co	1890	*	C	8					8					
			1900	*	C	5					5					
			1910	*	C	8					8					
			1920	*	C	8					8					
			1930	*	C	3					3	2	12		Most gas purchased	
			1940	N												
			1950	N												
			AVERAGES:			6	6					2	12			
7	Cedartown	Empire WL&Mfg Co	1890	*	?	?										
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
8	Cartersville	" Improvement LW Co	1890	*	0	(4)										
			1900	*	0	2					2					
			1910	*	C	6					6					
			1920	*	C	5					5	(0)	3	9		
			1930	*	C	5					5					
			1940	*	C	2					2					
			1950	0												
			AVERAGES:			5	2					4		3	9	

STATE: GEORGIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Columbus	The GL Co of "	1890	*	W		13			13						
			1900	*	W		15			15						
			1910	*	W		25			25						
			1920	*	W		70			70						
			1930	*	W		193			193						
			1940	N												
			1950	N												
			AVERAGES:				63			63						
10	Dalton	" EGL Co	1890	*	?					(4)						
			1900	*	C		4			4						
			1910	*	C		10			10						
			1920	*	C		10			10		(1)	7			
			1930	*	C		(3)									
			1940	*	C		23			23						
			1950	N												
			AVERAGES:				12			12				7		
11	Macon	" GL&Water Co	1890	*	C		37			37	Martin					
			1900	*	C		40			40	"					
			1910	*	C		60			60	Lowe					
			1920	*	C,W	180	10			190	"	(12)	215	47		
			1930	*	W	6				6	"	(10)	22	8	192,000 lbs of sulfate	
			1940	N												
			1950	N												
			AVERAGES:			65	10			67				28		
12	Rome	" GL Co	1890	*	C		5			5						
			1900	*	C		7			7						
			1910	*	C		17			17						
			1920	*	C		20			20						
			1930	*	C,W	28	7			35		14	22			
			1940	N												
			1950	N												
			AVERAGES:			15	7			17		14				

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: GEORGIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Savannah	Mutual GL Co	1890	*	W		50			50						
			1900	*	W		90			90						
			1910	*	W		140			140						
			1920	*	W		363			363					120	
			1930	*	W		488			488					286	
			1940	*	CW		450			450					790	
			1950	*	CW		789			789					1,463	
			AVERAGES:				340			340					665	
14	Thomasville	" G Co	1890	*	O			(7)								
			1900	*	O			4		4						
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					4		4						
15	Valdosta	" G Co	1890													
			1900													
			1910	*	C	(10)										
			1920	*	C	20				20		(0.6)		20		
			1930	*	C, W	48	7			55		1		552		
			1940	*	C	44				44		(0.4)		48		
			1950	N												
			AVERAGES:			37	7			40		1		207		
16	Albany	" Gas Works	1890													
			1900													
			1910													
			1920	*	W		22			22				5		
			1930	*	W		50			50				15		
			1940	*	CW		79			79						
			1950	N												
			AVERAGES:				50			50				10		

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia	
17	Griffin	" G,Ice&Cold Storage		1890										
				1900										
				1910										
				1920	*	W		10						
				1930	*	C,W		20	4			1	19	
				1940	N									
				1950	N									
				AVERAGES:				15	4			1	19	
18	La Grange	" Municipal G Plant		1890										
				1900										
				1910										
				1920	*	W		18						
				1930	*	W		24						
				1940	*	CW		19						
				1950	N									
				AVERAGES:				20						
19	Way Cross	Consumer's G&Coke Co		1890										
				1900										
				1910										
				1920	*	C		16				(1)	13	
				1930	*	C,W		18	14			1	21	
				1940	*	W			46					
				1950	*	W			133					
				AVERAGES:				17	64			1	17	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: HAWAII

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Hilo	" B Co	1890													
			1900													
			1910													
			1920	*	0			16		16	Berkeley					
			1930	*	0			28		28						
			1940	0												
			1950	*	0			104		104	Jones					
			AVERAGES:					49		49						
2	Honolulu	" LG Co	1890													
			1900													
			1910													
			1920	*	0			175		175	Lowe					
			1930	*	0			510		510	Jones					
			1940	0												
			1950	*				2,324		2,324	Jones					
			AVERAGES:					1,003		1,003						

STATE: IDAHO

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
1	Boise	" GL Co	1890												
			1900												
			1910	*	C	30				30					
			1920	*	C	45				45	(2)		40		
			1930	*	C	(21)									
			1940	*	C	64				64					
			1950	0											
			AVERAGES:			46				46			40		
2	Lewiston	Northwestern Corp	1890												
			1900												
			1910	*	C	11				11					
			1920	0											
			1930	0											
			1940	-											
			1950	-											
			AVERAGES:			11				11					
3	Pocatello	" G&P Co	1890												
			1900												
			1910												
			1920	*	C	37				37	(2)		36		
			1930	*	C	(20)									
			1940	0											
			1950	0											
			AVERAGES:			37				37			36		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Alton	* G&FL Co	1890	*	C	7				7						
			1900	*	C	7				7						
			1910	*	C	35				35						
			1920	*	C, W	31	8			39						
			1930	P												
			1940	P												
			1950	N												
			AVERAGES:			20	8			22						
2	Aurora	* BL Co	1890	*	W		18			18	Pratt-Ryan					
			1900	*	W		75			75	Lowe					
			1910	*	C, W		570	190		760	"					
			1920	P												
			1930	C												
			1940													
			1950													
			AVERAGES:				221	190		284						
3	Aurora	Excelsior & Co	1890	*	W		18	P-E		18						
			1900	O												
			1910	O												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				18			18						
4	Belleville	* GL&Coke Co	1890	*	C	15				15						
			1900	*	C	23				23						
			1910	P												
			1920	P												
			1930	P												
			1940	O												
			1950	O												
			AVERAGES:			19				19						

STATE: ILLINOIS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Bloomington	Citizen's BL&H Co	1890	*	C	(25)										
			1900	*	C	50				50						
			1910	*	C, W	60	60			120	Granger					
			1920	*	W		228			228	"			120		
			1930	*	W		323			323	"			211		
			1940	*	CW		301			301	"					
			1950	*	CW		473			473	"					
			AVERAGES:			55	277			249				166		
6	Cairo	" City & Co	1890	*	C	(15)										
			1900	*	C	11				11						
			1910	*	C	33				33						
			1920	*	C, W	23	11			34		2		31		
			1930	*	C, W	16	23			39		1		24		
			1940	*	CW		31			31						
			1950	N												
			AVERAGES:			21	22			30		2		28		
7	Canton	People's G&EL Co	1890	*	C	4				4						
			1900	0												
			1910	*	C	23				23						
			1920	*	C	42				42		2		50		0
			1930	*	C	118				118				27		
			1940	0												
			1950	0												
			AVERAGES:			47				47		2		39		0
8	Carlinville	" Gas Works	1890	*	W		2			2	Springer					
			1900	*	W		6			6	"					
			1910	*	W		?									
			1920	0												
			1930	X												
			1940	-												
			1950	-												
			AVERAGES:				4			4						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Centralia	* BL&Coke Co	1890	*	C	4				4						
			1900	*	C	10				10						
			1910	*	C	30				30						
			1920	*	C	25				25						
			1930	*	W	103				103						
			1940	0												
			1950	0												
			AVERAGES:			34				34						
10	Champaign	* Urbana BL&Coke Co	1890	*	C	6				6						
			1900	*	C	22				22						
			1910	*	W		63			63						
			1920	*	C,W	15	152			167		(1)	110			
			1930	*	CM		339			339						
			1940	N												
			1950	N												
			AVERAGES:			14	185			119			110			
11	Chicago	* BL&Coke Co	1890	*	W		1,500			1,500	Springer					
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				1,500			1,500						
12	Chicago	Consumer's G Co	1890	*	W		750			750	S,J,F					
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				750			750						

STATE: ILLINOIS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Chicago	Economic L&Heating B Co	1890	*	O					(65)						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
14	Chicago	Equitable GL&Fuel Co	1890	*	W				100		100	German.				
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:											100	100	
15	Chicago	Hyde Park GL&Fuel Co	1890	*	C			72		72						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:											72	72	
16	Chicago	Lake Gas GL&Fuel Co	1890	*	C			76		76						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:											76	76	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS.

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Chicago	People's GL&Coke Co	1890	*	W		900			900	S, H-L				
			1900	*	W		6,900			6,900	"				
			1910	*	W		?				"				
			1920	*	W		24,300			24,300	"				
			1930	*	Coke, W		13,005		8,707	21,712	"				
			1940	P											
			1950	P											
			AVERAGES:				11,276		8,707	13,453					
18	Chicago	Mutual Fuel & Co	1890	*	?					Evans & Fahn.					
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:												
19	Danville	" GL Co	1890	*	C		10			10					
			1900	*	C		2			2					
			1910	*	C, W		45	5		50	(1)	0	1		
			1920	*	C, W		71	68		139	4	207			
			1930	*	C, W		55	183		238					
			1940	N											
			1950	N											
			AVERAGES:				37	85		88	4	104	1		
20	Decatur	" GL&Coke Co	1890	*	C		12			12					
			1900	*	C		32			32					
			1910	*	C		77			77					
			1920	*	C, W		167	62		229	(1)	(0)	(0)		
			1930	*	C, W		55	407		462	"	1	259		
			1940	N											
			1950	N											
			AVERAGES:				69	235		162	1	259			

STATE: ILLINOIS

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21 Dixon	" B&EL Co	1890	*	O			(5)			Patton					
		1900	*	O			(10)			"					
		1910	*	O			30		30	"					
		1920	*	O			37		37	"	(1)	15			
		1930	P												
		1940	X												
		1950	-												
		AVERAGES:					34		34			15			
22 DuQuion	" LH&P Co	1890	*	C		7			7						
		1900	*	C		8			8						
		1910	*	C		10			10						
		1920	*	C		7			7						
		1930	O												
		1940	O												
		1950	-												
		AVERAGES:				8			8						
23 E ST Louis	" G Works	1890	*	C		16			16						
		1900	*	C		21			21						
		1910	*	W			144		144	Lowe					
		1920	*	W			465		465	"					
		1930	P												
		1940	O												
		1950	O												
		AVERAGES:				19	305		162						
24 Elgin	" American G Co	1890	*	C		12			12						
		1900	*	C		45			45						
		1910	O												
		1920	O												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:				29			29						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia	
25	Evanston	Northwestern GL&Coke Co	1890	*	W	7	(8)			P-R				
			1900	*	W	7	?			"				
			1910	*	W	35	(200)			Lowe		(100)		
			1920	*	W	31	1,400		1,400			(730)		
			1930	*	W		2,100		2,100					
			1940	O										
			1950	O										
			AVERAGES:				1,754		1,754					
26	Freeport	" GL&Coke Co	1890	*	C	10	18		10	Pratt-Ryan				
			1900	*	C	30	75		30	Lowe				
			1910	*	C	69	570	190	69	"				
			1920	*	C,W	32	105		137	Lowe				
			1930	*	W		175		175					
			1940	P										
			1950	P										
			AVERAGES:			35	140		84					
27	Galena	GL Co of "	1890	*	W		(10)	P-E		Sp				
			1900	*	W		6		6					
			1910	*	W		6		6					
			1920	O										
			1930	*	W		10		10					
			1940	O										
			1950	O										
			AVERAGES:				7		7					
28	Galesburg	" GL&Coke Co	1890	*	C	8			8					
			1900	*	C	40			40					
			1910	*	W	96			96					
			1920	*	C,W	106	64		170	(4)	(3)	5		
			1930	*	W		312		312		103			
			1940	*	CW		230		230					
			1950	N										
			AVERAGES:			63	202		143		103	5		

STATE: ILLINOIS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
29	Galva	" GL&Coke Co	1890	*	C	(2)										
			1900	*	C	4				4						
			1910	*	C	6	60			6	Granger					
			1920	0	W		228				"			120		
			1930	0	W		323				"			211		
			1940	-	CW		301				"					
			1950	-	CW		473				"					
			AVERAGES:			5				5						
30	Jacksonville	" GL&Coke Co	1890	*	C	14				14						
			1900	*	C	21				21						
			1910	*	C	44				44						
			1920	*	C	68	11			68		2		31		
			1930	*	C, W	16	73			73		1		24		
			1940	N	CW		31									
			1950	N												
			AVERAGES:			37	73			44						
31	Jerseyville	EL&GP Co	1890	*	?	4				?						
			1900	0												
			1910	0	C	23										
			1920	-	C	42						2		50		8
			1930	-	C	118								27		
			1940	-												
			1950	-												
			AVERAGES:													
32	Joliet	" G Co	1890	*	W		10			10	Sp					
			1900	*	W		50			50	"					
			1910	0	W		?									
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				30			30						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
33	Kankakee	* BL Co	1890	*	C	(8)										
			1900	*	C	8				8						
			1910	*	C	34				34						
			1920	*	C	85				85				(10)	(.5)	
			1930	*	W	103	201			201				81		
			1940	N												
			1950	N												
			AVERAGES:			42	201			82				81		
34	Kewanee	* GL&Coke Co	1890	*	W	6	5			5	Lowe (Sp)					
			1900	*	W	22	8			8	"					
			1910	*	W		26			26	"					
			1920	*	W	15	87			87	"	(3)	110			
			1930	*	CW		122			122	"		20			
			1940	*	CW		69			69						
			1950	N												
			AVERAGES:				53			53			20			
35	LaSalle&Peru	Twin City Gas Works	1890	*	C	7	1,500			7	Springer					
			1900	*	C	11				11						
			1910	*	C	24				24						
			1920	*	C, W	47	9			56						
			1930	*	CW		159			159						
			1940	*	CW		141			141						
			1950	N												
			AVERAGES:			22	103			66						
36	Lincoln	* G&EL Co	1890	*	C	11	750			11	S, J, F					
			1900	*	C	13				13						
			1910	*	C	20				20						
			1920	*	C	26				26						
			1930	*	C, W	33	8			41		2	33			
			1940	O												
			1950	O												
			AVERAGES:			21	8			22		2				

STATE: ILLINOIS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
37	Macomb	" Gas Works	1890	*	W		(4)	(65)								
			1900	*	W		7			7	Lowe					
			1910	*	W		16			16	"					
			1920	*	W		21			21	"					
			1930	*	W		57			57	"				45	
			1940	0												
			1950	0												
			AVERAGES:				25			25					45	
38	Mattoon	" GL&Coke Co	1890	*	C		7	100			German.					
			1900	*	C		5			5						
			1910	*	C		24			24						
			1920	*	C		43			43						
			1930	*	C, W		12	124.		136		1		89		
			1940	0												
			1950	0												
			AVERAGES:				21	124		52		1		89		
39	Mendota	" G Co	1890	*	C		4			4						
			1900	*	C		5			5						
			1910	*	C		9			9						
			1920	*	C		14			14						
			1930	*	C		21			21		(1)		21		
			1940	*	C		22			22		(1)		29		
			1950	0												
			AVERAGES:				13			13				25		
40	Moline	The People's L&Fuel Co	1890	*	C		7			7						
			1900	*	C		45			45						
			1910	*	W			164		164						
			1920	*	W			556		556						
			1930	*	W			1,000		1,000				292		
			1940	0												
			1950	0												
			AVERAGES:				26	573		354				292		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
41	Monmouth	" B Co	1890	*	C	(5)	900				S, H-L					
			1900	*	C	7	6,900			7	"					
			1910	*	C, W	18	18			36	"					
			1920	*	W		32			32	"					
			1930	P	Coke, W		13,005		8,707		"					
			1940	O												
			1950	O												
			AVERAGES:			13	25			25						
42	Morris	" B Co	1890	*	W		(5)				Low (Sp)					
			1900	*	W		2			2	"					
			1910	*	W		9			9	Low (Su)					
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:				6			6						
43	Ottawa	" GL&Coke Co	1890	*	C	12				12						
			1900	*	C	19				19						
			1910	*	W	30	5			30	Low	(1)	0		1	
			1920	*	W	109	68			109		4	207			
			1930	*	W	194	183			194			65			
			1940	N												
			1950	N												
			AVERAGES:			73				73			65			
44	Paris	" GL&Coke Co	1890	*	W	12	3			3	P-R					
			1900	*	W	32	5			5	"					
			1910	*	C	9				9						
			1920	*	C	18	62			18	Low	(1)	(0)		(0)	
			1930	*	C	1	407			1	"	1	259			
			1940	O												
			1950	O												
			AVERAGES:			9	4			7						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS

[illegible]

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
53	Springfield	" GL Co	1890	*	C	(30)									
			1900	*	C	?									
			1910	*	C, W	58	87			145					
			1920	*	C, W	98	207			305					
			1930	*	W		553			553					
			1940	*	W		24			24					
			1950	N											
			AVERAGES:			78	218			257					
54	Sterling	" G&L Co	1890	*	C	3				3					
			1900	*	C	8				8					
			1910	*	C	35				35					
			1920	*	C	59				59	(31)	(2)			
			1930	*	C, W	211	37			248	(2)	287			
			1940	*	C, W	205	59			264	(5)	282			
			1950	O											
			AVERAGES:			87	48			103			285		
55	Streator	" GL Coke Co	1890	*	C	9				9					
			1900	*	C	11				11					
			1910	*	C	40				40					
			1920	*	C	65				65					
			1930	*	W		94			94			10		
			1940	O											
			1950	O											
			AVERAGES:			31	94			44			10		
56	Waukegan	" GL Co	1890	*	W		3			3	S-6				
			1900	*	W		12			12	"				
			1910	O											
			1920	O											
			1930	O											
			1940	*	CW		320			320					
			1950	N											
			AVERAGES:				112			112					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
57	Beardstown	" EL&P Co	1890													
			1900	*	C		7									
			1910	*	C		7			7						
			1920	*	C		24			24						
			1930	*	C		38			38		2	41			
			1940	0												
			1950	0												
			AVERAGES:				23			23		2	41			
58	Belvidere	" GL&Fuel Co	1890													
			1900	*	W		13			13	Low	Improved				
			1910	*	W		25			25	"					
			1920	*	W		42			42	"					
			1930	*	W		61			61	"					
			1940	*	CM		50			50	"					
			1950	0												
			AVERAGES:				38			38						
59	Chicago	Ogder, G Co	1890													
			1900	*	W		303			303	Low					
			1910	*	W		1,100			1,100	"					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				702			702						
60	Clinton	" G Co	1890													
			1900	*	C		(7)									
			1910	*	C		11			11						
			1920	*	C		19			19		(0.4)	7			
			1930	*	CM		34			34						
			1940	*	CM		23			23						
			1950	N												
			AVERAGES:				22			22						

STATE, ILLINOIS

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
65	Oak Park	Cicero G Co	1890													
			1900	*	W		100			100	Rew					
			1910	0												
			1920	*	W		1,160			1,160	Rew			(140)		
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				630			630						
66	Peoria	People's G&E Co	1890													
			1900	*	C		?									
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
67	Springfield	Provident G Co	1890													
			1900	*	?					?						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
68	Taylorville	Citizen's G&Fuel Co	1890													
			1900	*	0			4		4						
			1910	*	W		6			6	Low					
			1920	*	W		13			13	"					
			1930	*	W		53			53	"					
			1940	0												
			1950	0												
			AVERAGES:				24	4		19						

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
69	Charleston	"		Illum Co	1890										
					1900										
					1910	*		C	8		8				
					1920	*		C	13		13	(0.6)		12	
					1930	P									
					1940	O									
					1950	O									
					AVERAGES:				11		11			12	
70	Chicago Mergas	"		G Co	1890										
					1900										
					1910	*		C, W	43		43	Low			
					1920	*		C, W	80		80	"	(1)	(0)	
					1930	O									
					1940	O									
					1950	-									
					AVERAGES:				62		62				
71	Geneseo	"		G Co	1890										
					1900										
					1910	*		W	6		6	Low			
					1920	*		W	9		9	"			
					1930	*		W	16		16	"			
					1940	*		W	15		15	"			
					1950	O									
					AVERAGES:				12		12				
72	Granite City	"		GL&E Co	1890										
					1900										
					1910	*		C	43		43				
					1920	*		C, W	24	64	88	(1.4)		8	
					1930	P									
					1940	P									
					1950	N									
					AVERAGES:				34	64	66			8	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
73	Greenville	1890													
	"EG&P Co	1900													
		1910	*	0				(5)							
		1920	0												
		1930	0												
		1940	-												
		1950	-												
		AVERAGES:													
74	Harvard	1890													
	" B Co	1900													
		1910	*	W			?								
		1920	0												
		1930	0												
		1940	-												
		1950	-												
		AVERAGES:													
75	Hoopeston	1890													
	" B Co	1900													
		1910	*	W			?								
		1920	*	W			19			19					
		1930	*	C,W		22	21			43					
		1940	0												
		1950	0												
		AVERAGES:				22	20			31					
76	Morrison	1890													
	" G&E Co	1900													
		1910	*	W			10			10	Low				
		1920	*	W			17			17	"				
		1930	X												
		1940	-												
		1950	-												
		AVERAGES:					14			14					

STATE: ILLINOIS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
77	Mt Carmel	" G&E Co	1890													
			1900													
			1910	*	W			(8)								
			1920	*	W			9		9						
			1930	*	W			20		20						
			1940	*	CW			29		29						
			1950	N												
			AVERAGES:					19		19						
78	Mt Vernon	Citizen's BE&H Co	1890													
			1900													
			1910	*	C			10		10						
			1920	*	C			11		11						
			1930	P												
			1940	*	C			20		20						
			1950	*	W			29		29						
			AVERAGES:					14		29						
79	Pontiac	" L&W Co	1890													
			1900													
			1910	*	C			10		10						
			1920	*	C			50		50						
			1930	*	C							(1)		50		
			1940	O												
			1950	O												
			AVERAGES:					30		30					50	
80	Rochelle	" G Co	1890													
			1900													
			1910	*	W			12		12	Tenney					
			1920	*	W			7		7	"					
			1930	*	CW			22		22	Steere			6		
			1940	*	CW			22		22	"					
			1950	N												
			AVERAGES:					16		16					6	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
81	Savanna	* BL Co	1890													
			1900													
			1910	*	W			15		15	Lowe					
			1920	*	W			?			"					
			1930	*	W			30		30	"					
			1940	*	W			28		28	"					
			1950	*	W			45		45	"					
			AVERAGES:					30		30						
82	Tiskilwa	* Gas Works	1890													
			1900													
			1910	*	O			2		2	Lowe					
			1920	*	O			3		3	"					
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:					3		3						
83	Waukegan	North Shore Con G Co	1890													
			1900													
			1910	*	W			194		194	Lowe					
			1920	*	W			?			"					
			1930	*	CH			454		454	"					
			1940	O												
			1950	-												
			AVERAGES:					324		324						
84	Blue Island	Public Serv Co of N IL	1890													
			1900													
			1910													
			1920	*	W			528		528				258		
			1930	*	W			49		49						
			1940	O												
			1950	O												
			AVERAGES:					289		289						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					SAGIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
85	Dekalb	Ill No Utilities Co	1890													
			1900													
			1910													
			1920	*	C, W	54	5			59	Lowe	(1)		(1)		
			1930	*	C	87				87						
			1940	*	?											
			1950	0												
			AVERAGES:			71	5			73						
86	Edwardsville	Madison County L&P Co	1890													
			1900													
			1910													
			1920	*	C	12				12		(0)		45		
			1930	P												
			1940	0												
			1950	0												
			AVERAGES:			12				12				45		
87	Hillsboro	So Ill L&P Co	1890													
			1900													
			1910													
			1920	*	W		5			5	Tenney					
			1930	X												
			1940	-												
			1950	-												
			AVERAGES:				5			5						
88	Paxton	" 6 Co	1890													
			1900													
			1910													
			1920	*	W		8			8						
			1930	*	CW		22			22				6		
			1940	*	CW		?									
			1950	0												
			AVERAGES:				15			15				6		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: ILLINOIS

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
89	Shelbyville	Queen City G Co													
		1890													
		1900													
		1910													
		1920	*	W		(3)			Tenney						
		1930	*	CW		10		10	"						
		1940	0												
		1950	0												
AVERAGES:					10		10								
90	West Hammond	" G&E Co													
		1890													
		1900													
		1910													
		1920	*	?				32							
		1930	P												
		1940	0												
		1950	0												
AVERAGES:							32								
91	Pana	Central Ill Pub Serv													
		1890													
		1900													
		1910													
		1920													
		1930	*	CW		15		15	Tenney		1				
		1940	0												
		1950	0												
AVERAGES:					15		15		1						

STATE: INDIANA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Anderson	" Natural Gas&Oil Co	1890	*	W		(11)				Lowe					
			1900	0												
			1910	0												
			1920	*	W		300			300	Lowe					
			1930	*	W		378			378	"					
			1940	*	W		190			190	"					
			1950	0												
			AVERAGES:				289			289						
2	Aurora	" GL Coal&Coke Co	1890	*	C		10			10						
			1900	*	C		9			9						
			1910	*	C		6			6						
			1920	*	C		7			7						
			1930	*	C		9			9		1		8		
			1940	*	C		12			12		1		15		
			1950	N												
			AVERAGES:				9			9		1		12		
3	Columbus	" GL Coke Co	1890	*	C		5			5						
			1900	*	C		6			6						
			1910	*	C,W		32	4		36						
			1920	*	C,W		40	3		43						
			1930	*	C,W		26	6		32		3		45		
			1940	P												
			1950	0												
			AVERAGES:				22	4		24		3		45		
4	Connersville	" GL Mfg Co	1890	*	C		5			5						
			1900	*	C		4			4						
			1910	*	C		2			2						
			1920	*	C		8			8						
			1930	*	CW			62		62		(1)		44		
			1940	*	CW			69		69						
			1950	0												
			AVERAGES:				5	66		25				44		

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: INDIANA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Crawfordsville	" BEL Co	1890	*	C	9				9						
			1900	*	C	8				8						
			1910	*	W		28			28						
			1920	O												
			1930	P												
			1940	O												
			1950	O												
			AVERAGES:				9	28		15						
6	Elkhart	" BL Coke Co	1890	*	C	9				9						
			1900	*	C	28				28						
			1910	*	C	60				60						
			1920	*	C, W	148	19			167	Lowe (Sp)	(3)				
			1930	*	C, CW	55	24			79	"	3	80			
			1940	*	C, CW	250	?			250	"					
			1950	O												
			AVERAGES:				92	22		99		3	80			
7	Evansville	" BEL Co	1890	*	C	55				55						
			1900	*	C	108				108						
			1910	*	C, W	150	50			200						
			1920	*	C, W	241	39			280						
			1930	*	C, W	13	556			569		(-)	175			
			1940	*	CW		29			29						
			1950	N												
			AVERAGES:				113	169		207			175			
8	Fort Wayne	" BL Co	1890	*	W		30			30						
			1900	*	W		23			23						
			1910	*	W		[365]									
			1920	O												
			1930	*	Coke, CW		891		1,118	2,009		(27)	1,245		2,000,000 lbs ammonium sulfate	
			1940	N												
			1950	N												
			AVERAGES:				315		1,118	687			1,245			

STATE: INDIANA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Frankfort	" GL Co	1890	*	C	5				5						
			1900	*	C	4				4						
			1910	0												
			1920	0												
			1930	*	W		158			158	Lowe					
			1940	0												
			1950	0												
			AVERAGES:			5	158			56						
10	Franklin	" B Co	1890	*	C	5				5						
			1900	*	C	(6)										
			1910	*	C	9				9						
			1920	*	C	13				13		1	10			
			1930	*	C	18				18		1	16			
			1940	P												
			1950	0												
			AVERAGES:			11				11		1	13			
11	Goshen	" GL Co	1890	*	C	(8)										
			1900	*	C	9				9						
			1910	*	C	31				31						
			1920	*	C, W	49	6			55	Pratt					
			1930	P												
			1940	P												
			1950	0												
			AVERAGES:			30	6			32						
12	Greencastle	" GL Fuel & Coke Co	1890	*	C	(5)										
			1900	*	C	5				5						
			1910	*	C	6				6						
			1920	*	C	11				11		(0.4)	(1)			
			1930	*	C	18				18		(1)	16			
			1940	P												
			1950	0												
			AVERAGES:			10				10						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: INDIANA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Greensburgh	* GL&Motor Co	1890	*	W			4		4	Lowe					
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					4		4						
14	Huntington	* GL&Fuel Co	1890	*	C		6			6						
			1900	*	C		7			7						
			1910	*	C		7			7						
			1920	*	C		80			80						
			1930	P												
			1940	O												
			1950	O												
			AVERAGES:				25			25						
15	Indianapolis	* EL&Heat Co	1890	*	W		(125)				Lowe (J)					
			1900	*	W		225			225						
			1910	*	W		1,000			1,000						
			1920	*	Coke, W		400		2,460	2,860						
			1930	*	Coke, W		586		3,153	3,739		(45)	3,610		1,000,000 lbs ammonium sulfate	
			1940	*	Coke, W		83		?	83			45			
			1950	N												
			AVERAGES:				459		2,807	1,581			1,828			
16	Indianapolis	* GL&Coke Co	1890	*	C		(125)									
			1900	O												
			1910	O												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Jeffersonville		"	B Co	1890	*	C	5		5					
					1900	*	C	12		12					
					1910	0									
					1920	0									
					1930	*	CW		56	56					
					1940	0									
					1950	0									
					AVERAGES:			9	56	24					
18	Kokomo		"	GL&Coke Co	1890	*	W	(10)		Lowe (G)					
					1900	*	W	4		4					
					1910	*	W	18		18					
					1920	0									
					1930	*	W		422	422			319		
					1940	0									
					1950	0									
					AVERAGES:				148	148			319		
19	Lafayette		"	GL Co	1890	*	C	20		20					
					1900	*	C	26		26					
					1910	C									Merged w/Ft. Wayne
					1920	0									
					1930	*	C, CW	190	207	397	12	377	35		No. IN Public Service
					1940	0									
					1950	0									
					AVERAGES:			79	207	148	12	377	35		
20	La Porte		"	GL&Coke Co	1890	*	C	5		5					
					1900	*	C	13		13					
					1910	*	C	35		35					
					1920	*	C, W	36	36	72	(1)	20			
					1930	*	CW		111	111		53			
					1940	*	CW		140	140					
					1950	*	CW		23	23					
					AVERAGES:			22	78	57		37			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: INDIANA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21	Lawrenceburgh	* B Co	1890	*	C	(6)										
			1900	*	C	6				6						
			1910	*	C	6				6						
			1920	*	C	?										
			1930	*	C	10				10		1				
			1940	*	W		15			15						
			1950	N												
			AVERAGES:			7	15			9		1				
22	Lebanon	* American B Co	1890	*	C	4				4						
			1900	N												
			1910	N												
			1920	N												
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:			4				4						
23	Logansport	* GL&Coke Co	1890	*	C	14				14						
			1900	*	C	?										
			1910	C												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			14				14						
24	Madison	* BL Co	1890	*	C	(10)										
			1900	*	C	8				8						
			1910	*	C	12				12						
			1920	*	C	20				20	(0)			1		
			1930	*	C	21				21		1		16		
			1940	*	C	25				25						
			1950	N												
			AVERAGES:			17				17		1		9		

Merged w/Ft.Wayne

STATE: INDIANA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
25	Marion	* Coal & Co	1890	*	C	(9)										
			1900	0												
			1910	0												
			1920	*	W		2,300			2,300						
			1930	*	CW		176			176						
			1940	0												
			1950	0												
			AVERAGES:				1,238			1,238						
26	Michigan City	* G Co	1890	*	C	9										
			1900	*	C	19										
			1910	*	C, W	67	8			75	Lowe					
			1920	C												Consol. w/Hammond
			1930	P												
			1940	P												
			1950	0												
			AVERAGES:			32	8			34						
27	Muncie	* Gas Works	1890	*	C	(8)										
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
28	New Albany	* GL&Coke Co	1890	*	C	25										
			1900	*	C	17										
			1910	*	C	76										
			1920	*	C	130				130						
			1930	*	C, CW	78	48			126		5	99			
			1940	P												
			1950	0												
			AVERAGES:			65	48			75		5	99			

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: INDIANA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
29	Peru	" American S Co	1890	*	C	(8)										
			1900	*	C	5				5						
			1910	P												
			1920	P												
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:			5				5						
30	Richmond	" S Co	1890	*	W			34		34	M-C					
			1900	*	W			30		30	"					
			1910	*	W			41		41	"					
			1920	O												
			1930	*	CH			293		293	"					
			1940	O												
			1950	O												
			AVERAGES:					100		100						
31	Rushville	" GL Co	1890	*	O			3		3						
			1900	*	O			6		6						
			1910	*	O			8		8						
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:					6		6						
32	Seymore	" GL&Coke Co	1890	*	C	6				6						
			1900	*	C	25				25						
			1910	*	C	18				18						
			1920	O												
			1930	*	C, CH	42		1		43	Low	2		43		
			1940	P												
			1950	O												
			AVERAGES:			23		1		23		2		43		

STATE: INDIANA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
33	South Bend	" GL Co	1890	*	W		(25)				Lowe					
			1900	*	W		65			65	"					
			1910	*	W		260			260	"					
			1920	0												
			1930	*	CW		1,990			1,990	Lowe				967	
			1940	P												
			1950	0												
			AVERAGES:				772			772					967	
34	Terre Haute	" GL Co	1890	*	W		(35)									
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
35	Terre Haute	" Citizen's Gas Fuel Co	1890	*	W		?									
			1900	*	W		110			110						
			1910	*	C, W	120	100			220						
			1920	*	W		138			138						
			1930	*	CW		?									
			1940	*	CW		309			309						
			1950	*	Coke				1,310	1,310						
			AVERAGES:			120	164		1,310	417						
36	Valparaiso	" G&EL Co	1890	*	0			(8)			Patton					
			1900	*	0			6		6	"					
			1910	*	C, W		24	3		27	Lowe					
			1920	*	C, W		32			32	"					
			1930	X												
			1940	-												
			1950	-												
			AVERAGES:				28	5		22						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: INDIANA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
37	Vincennes	Citizen's Gas Co	1890	*	C	16				16						
			1900	*	C	18				18						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			17				17						
38	Wabash	" Gas Co	1890	*	0			2		2						
			1900	*	0			1		1						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					2		2						
39	Warsaw	" Fuel & Power Co	1890	*	0			4		4	Kutz					
			1900	*	0			16		16	V-Si					
			1910	*	0			?			"					
			1920	*	0			25		25	"					
			1930	*	0			33		33	"	2	49			
			1940	*	C	38				38	"	3	43			
			1950	*												
			AVERAGES:			38		20		23		3	46			
40	Washington	The " Gas Co	1890	*	C	10				10						
			1900	*	C	6				6						
			1910	*	C	21				21						
			1920	*	C	30				30		(1)	4			
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:			17				17			4			

STATE: INDIANA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
41	Shelbyville	" BL Co	1890	*	W		6			6	Lowe (S)				
			1900	*	W		7			7	"				
			1910	*	W		18			18	"				
			1920	*	W		34			34	"				
			1930	*	CW		68			68	"				14
			1940	*	CW		70			70	"				
			1950	0											
			AVERAGES:				34			34					14
42	Bloomington	" B Co	1890												
			1900	*	C	9				9					
			1910	*	W		23			23	Lowe				
			1920	*	W		42			42	"				
			1930	*	CW		125			125	"				
			1940	P											
			1950	0											
			AVERAGES:			9	63			50					
43	Liberty	" Fuel & GL Co	1890												
			1900	*	0			6		6					
			1910	*	0			5		5					
			1920	*	0			15		15	2		14		
			1930	*	0			4		4					
			1940	0											
			1950	0											
			AVERAGES:					8		8	2		14		
44	Martinsville	" GL&F Co	1890												
			1900	*	W		3			3	Parker/Bunt				
			1910	*	W		2			2	Lowe				
			1920	0											
			1930	P											
			1940	P											
			1950	0											
			AVERAGES:				3			3					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: INDIANA

[illegible]

STATE: INDIANA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
49	Gary	"		HL&W Co	1890										
					1900										
					1910	*		W	20	20	Lowe				
					1920	*		W	102	102	"				
					1930	P									
					1940	P									
					1950	O									
					AVERAGES:				61	61					
50	Hammond			No Ind G&E Co	1890										
					1900										
					1910	*		W	200	200	Lowe				
					1920	*		W	2,300	2,300	"				
					1930	P						3		47	
					1940	*		C, W	40	398	Lowe				
					1950	*		W		895	"			294	
					AVERAGES:				40	948		3		171	
51	Indianapolis			Citizen's G Co of "	1890										
					1900										
					1910	*		Coke		(150)	Otto-Hoff.				
					1920	O									
					1930	O									
					1940	*		Coke		4,160	4,160	Otto-Hoff.	(9)		3,624
					1950	*		Coke, W	3,082	8,245	11,327	" "	(82)		6,772
					AVERAGES:				3,082	6,203	7,744				5,198
52	Linton			" G Co	1890										
					1900										
					1910	*		C	10		10				
					1920	O									
					1930	N									
					1940	N									
					1950	N									
					AVERAGES:				10		10				

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: INDIANA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
53	New Castle	" LH&P Co	1890												
			1900												
			1910	*	C	30				30					
			1920	O											
			1930	*	C, CW	93	26			119	5	96			
			1940	O											
			1950	O											
			AVERAGES:			62	26			75	5	96			
54	Plymouth	" L Co	1890												
			1900												
			1910	*	M		7			7	Low				
			1920	C											Cons. w/Hammond
			1930	P											
			1940	P											
			1950	O											
			AVERAGES:				7			7					
55	Princeton	Consumer's G Co of "	1890												
			1900												
			1910	*	C	?									
			1920	*	C	10				10					
			1930	O											
			1940	O											
			1950	-											
			AVERAGES:			10				10					
56	Rochester	" G&F Co	1890												
			1900												
			1910	*	C	13				13					
			1920	*	C	16				16					
			1930	*	C, CW	13	3			16					
			1940	P											
			1950	P											
			AVERAGES:			14	3			15					

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
57	Loogootee	B&F Co	1890													
			1900													
			1910													
			1920	*	O				4			4				
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:						4			4				
58	Noblesville	Indiana GL Co	1890													
			1900													
			1910													
			1920	P												
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:													
59	Muncie	Central In G Co	1890													
			1900													
			1910													
			1920													
			1930	*	C ₁ H	570	251			829						
			1940	*	H	647				647						
			1950	O												
			AVERAGES:			613	251			738						
60	Winchester	Indiana-Ohio PS Co	1890													
			1900													
			1910													
			1920													
			1930	*	CW		66			66						
			1940	O												
			1950	O												
			AVERAGES:				66			66						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: INDIANA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
61	Terre Haute	Indiana Gas Chem Corp	1890													
			1900													
			1910													
			1920													
			1930													
			1940	*	Coke				1,252	1,252		116	786	629		
			1950	0												
			AVERAGES:						1,252	1,252		116		629		

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Atlantic			" GL Co	1890	*	O		(6)						
					1900	*	O		2		2				
					1910	*	W		5		5				Lowe
					1920	*	W		5		5				"
					1930	*	CW		15		15				"
					1940	N									
					1950	N									
					AVERAGES:			8	2		7				
2	Burlington			" GL Co	1890	*	W		25		25				Lowe (6)
					1900	*	W		45		45				"
					1910	*	W		94		94				"
					1920	*	W		156		156				"
					1930	*	W		201		201				"
					1940	*	W		161		161				"
					1950	*	W		60		60				"
					AVERAGES:				106		106				
3	Cedar Rapids			" GL Co	1890	*	C		15		15				
					1900	*	C		30		30				
					1910	*	C, W		65	65	130				Lowe
					1920	*	C, W		50	307	357			(104)	"
					1930	*	W			475	475			252	"
					1940	O									
					1950	O									
					AVERAGES:			40	282		201			252	
4	Clinton			" GL&Coke Co	1890	*	C		7		7				
					1900	*	C		36		36				
					1910	*	C, W		70	30	100				Sp
					1920	*	C, W		200	155	355			(1)	(6)
					1930	*	Coke, W			3	213	216		10	32
					1940	O									
					1950	O									
					AVERAGES:			78	63		213	143		10	32

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: IOWA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Council Bluffs	* G&EL Co	1890	*	W		(40)									
			1900	*	W		28			28						
			1910	*	W		88			88						
			1920	*	W		160			160						
			1930	*	W		(41)									
			1940	O												
			1950	O												
			AVERAGES:				92			92						
6	Creston	* GL Co	1890	*	W		6			6	Pratt&Ryan					
			1900	*	W		7			7	" "					
			1910	*	W		8			8	" "					
			1920	*	W		20			20	" "					
			1930	*	CW		27			27	" "					
			1940	*	CW		27			27	" "					
			1950	N												
			AVERAGES:				16			16						
7	Davenport	* GL Co	1890	*	C		20			20						
			1900	*	C		33			33						
			1910	*	C,W		87	87		174						
			1920	*	C,W		97	302		399						
			1930	*	CW			536		536					18	
			1940	O												
			1950	O												
			AVERAGES:				59	308		232					18	
8	Des Moines	Capital City GL Co	1890	*	W		60			60	Lowe					
			1900	*	W		110			110	"					
			1910	*	W		500			500	"					
			1920	*	W		930			930	"				(50)	
			1930	*	W		1,215			1,215	"				802	
			1940	N												
			1950	N												
			AVERAGES:				563			563					802	

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Dubuque	Key City Gas Co	1890	*	C	30				30						
			1900	*	C	42				42						
			1910	*	C	128				128						
			1920	*	C	150				150						
			1930	0												
			1940	*	C,W	255	18			273		11	248			
			1950	*	C,W	227	139			366		14	268			
			AVERAGES:			139	79			165		13	258			
10	Fairfield	" G Co	1890	*	C	(4)										
			1900	*	C	4				4						
			1910	*	C	1				1						
			1920	*	C	14				14						
			1930	*	C	32				32		1	23			
			1940	*	W		24			24						
			1950	*	W		40			40						
			AVERAGES:			13	32			19		1	23			
11	Fort Dodge	" G Co	1890	*	C,W	(5)										
			1900	0												
			1910	*	C,W	32				32						
			1920	*	C,W	36	67			103		(1)	8	5		
			1930	*	CW		136			136			53			
			1940	0												
			1950	0												
			AVERAGES:			34	102			90					5	
12	Fort Madison	" G Co	1890	*	W		2			2	Lowe (G)					
			1900	*	W		9			9	"					
			1910	*	W		21			21	"					
			1920	*	W		37			37	"					
			1930	*	CW		55			55	Lowe					
			1940	*	CW		29			29	"					
			1950	N												
			AVERAGES:				26			26						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: IOWA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Independence	" Gas Works	1890	*	O			(4)			Patton					
			1900	*	O			2		2	"					
			1910	*	O			6		6	"					
			1920	*	O			11		11	"					
			1930	*	W		17			17	Terney				6	
			1940	*	W		17			17	"					
			1950	N												
			AVERAGES:				17	6		11					6	
14	Iowa City	" GL Co	1890	*	C		6			6						
			1900	*	C		10			10						
			1910	*	C		42			42						
			1920	*	C, W		26	35		61	LOWE	(1)			12	
			1930	*	W			124		124	"					
			1940	N												
			1950	N												
			AVERAGES:				21	80		49					12	
15	Keokuk	" GL&Coke Co	1890	*	W		16			16	LOWE					
			1900	*	W		14			14	"					
			1910	*	W		30			30	"					
			1920	*	W		53			53	"					
			1930	*	W		69			69	"				21	
			1940	*	W		48			48	"					
			1950	N												
			AVERAGES:				38			38					21	
16	Le Mars	" GL Co	1890	*	C		2			2						
			1900	*	C		3			3						
			1910	*	W, O		9	3		12	LOWE					
			1920	*	W		13			13	"					
			1930	*	CW		23			23	"					
			1940	N												
			1950	N												
			AVERAGES:				3	15	3	11						

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Marshalltown	"	G Co	1890	*	C		5		5					
				1900	*	C		11		11					
				1910	*	C		20		20					
				1920	*	C		77		77					
				1930	*	CW		121		121				12	
				1940	*	?									
				1950	*	CW		207		207					
				AVERAGES:				28	164	74				12	
18	Mason City	"	G&EL Co	1890	*	C		(5)							
				1900	D										
				1910	*	W		32		32	Lowe				
				1920	*	W		97		97	"				
				1930	*	W		129		129	"			54	
				1940	N										
				1950	N										
				AVERAGES:				86		86				54	
19	Mt Pleasant	"	Gas Works	1890	*	C		5		5					
				1900	*	C		8		8					
				1910	*	C		6		6					
				1920	*	C		11		11					
				1930	*	C		14		14					
				1940	*	W		14		14					
				1950	N										
				AVERAGES:				9	14	10					
20	Muscatine	"	GEL&P Co	1890	*	C		12		12					
				1900	D										
				1910	*	C		34		34					
				1920	*	C, W		33	24	57		(1)		37	
				1930	*	CW		66		66				20	
				1940	N										
				1950	N										
				AVERAGES:				26	45	42				29	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: IOWA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21	Oskaloosa			"	G&EL Co	1890	*	C	(10)						
						1900	*	C	7						
						1910	*	W		15					Lowe
						1920	*	W		23					"
						1930	*	CW		34					"
						1940	N								
						1950	N								
						AVERAGES:				7	24				20
22	Ottumwa				"	GLH&P Co	1890	*	C, W	(15)					
							1900	*	C, W	14					
							1910	*	C, W	24	24				
							1920	*	C, W	28	100				
							1930	*	W		144				36
							1940	N							
							1950	N							
							AVERAGES:			22	89				84
23	Red Oak				"	GL Co	1890	*	O	(5)					Patton
							1900	*	O		2				"
							1910	*	W		7				Lowe
							1920	*	W		16				"
							1930	*	W		26				"
							1940	N							"
							1950	N							
							AVERAGES:				16	2			13
24	Sioux City				"	G Co	1890	*	W		30				
							1900	*	W		84				
							1910	*	W		274				
							1920	*	W		557				
							1930	*	W		680				
							1940	*	CW		870				
							1950	*	CW		1,367				
							AVERAGES:				552				552

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: IOWA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
29	Burlington	People's G&E Co	1890													
			1900													
			1910	*	W		15			15	Lowe					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				15			15						
30	Centerville	" L&Traction Co	1890													
			1900													
			1910	*	W		4			4	Lowe					
			1920	*	W		8			8	"					
			1930	*	W		18			18	"					
			1940	0												
			1950	0												
			AVERAGES:				10			10						
31	Charles City	" G Co	1890													
			1900													
			1910	*	W		(6)				Lowe					
			1920	0												
			1930	*	W		47			47	Lowe					
			1940	*	W		30			30	"					
			1950	N												
			AVERAGES:				39			39						
32	Cherokee	" G Co	1890													
			1900													
			1910	*	W		8			8	Tenney					
			1920	*	W		12			12	"					
			1930	*	W		21			21	"					
			1940	*	CW		20			20	"					
			1950	N												
			AVERAGES:				15			15						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
33	Clear Lake	" EL&P Co	1890													
			1900													
			1910	*	W			3		3	LOWE (S)					
			1920	*	W			6		6	"					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					5		5						
34	Eagle Grove	Citizen's LH&P Co	1890													
			1900													
			1910	*	C			3		3						
			1920	*	C			9		9						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					6		6						
35	Grinnel	People's L&F Co	1890													
			1900													
			1910	*	W			5		5						
			1920	*	W			16		16						
			1930	*	W			17		17						
			1940	*	CW			17		17						
			1950	N												
			AVERAGES:					14		14						
36	Hampton	" G Co	1890													
			1900													
			1910	*	W			5		5	SD					
			1920	*	W			10		10	"					
			1930	*	W			17		17	"					
			1940	*	CW			17		17	"					
			1950	N												
			AVERAGES:					12		12						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: IOWA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
37	Iowa Falls	Iowa Gas Co	1890													
			1900													
			1910	*	W		5			5	Tenney					
			1920	*	W		9			9	"					
			1930	*	W		24			24	"					
			1940	*	W		18			18	"					
			1950	N												
			AVERAGES:				14			14						
38	Knoxville	" G Co	1890													
			1900													
			1910	*	W		5			5						
			1920	*	W		6			6						
			1930	*	W		18			18						
			1940	*	W		?									
			1950	N												
			AVERAGES:				10			10						
39	Maquoketa	" L&H Co	1890													
			1900													
			1910	*	W		12			12						
			1920	*	W		?									
			1930	*	W		17			17						
			1940	*	W		1			1						
			1950	N												
			AVERAGES:				10			10						
40	Marengo	" G Co	1890													
			1900													
			1910	*	W		3			3						
			1920	*	W		16			16						
			1930	X												
			1940	-												
			1950	-												
			AVERAGES:				10			10						

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
41	Nevada	" G Co												
			1890											
			1900											
			1910	*	W		3		3	LOWE				
			1920	Q										
			1930	Q										
			1940	-										
42	Delwein	" G&P Co	1890											
			1900											
			1910	*	C		11		11					
			1920	Q										
			1930	*	CW		33		33					
			1940	*	CW		27		27					
			1950	*	CW		46		46					
			AVERAGES:			11	35		29					
43	Osceola	" LH&P Co	1890											
			1900											
			1910	*	W		5		5	Tenney				
			1920	*	W		3		3	"				
			1930	*	W		3		3	"				
			1940	*	CW		1		1	"				
			1950	Q										
			AVERAGES:				3		3					
44	Perry	" G Co	1890											
			1900											
			1910	*	W		5		5					
			1920	*	C, W		17		19					
			1930	*	?		23		23					
			1940	N										
			1950	N										
			AVERAGES:			20	4		16					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: IOWA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia	
45	Shenandoah	People Gas Co		1890										
				1900										
				1910	*	W		10		10			Lowe	
				1920	*	W		16		16			"	
				1930	O									
				1940	N									
				1950	N									
				AVERAGES:				13		13				
46	Vinton	" G Co		1890										
				1900										
				1910	*	W		9		9			Tenney	
				1920	*	W		12		12			"	
				1930	*	W		12		12			"	
				1940	*	CW		11		11			"	
				1950	N									
				AVERAGES:				11		11				
47	Albia	" L&Railway Co		1890										
				1900										
				1910										
				1920	*	W		8		8			Tenney	
				1930	*	W		12		12			"	
				1940	*	CW		8		8			"	
				1950	O									
				AVERAGES:				9		9				
48	Ames	Iowa Public Serv		1890										
				1900										
				1910										
				1920	*	W		35		35				
				1930	P									
				1940	P									
				1950	N									
				AVERAGES:				35		35				

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: IOWA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
53	Mapleton	" G Co	1890													
			1900													
			1910													
			1920	*	W		2			2	Tenney					
			1930	*	W		(1)				"					
			1940	0												
			1950	0												
			AVERAGES:				2			2						
54	Newton	City of " G Co	1890													
			1900													
			1910													
			1920	*	W		8			8	Lowe					
			1930	*	W		(8)				"					
			1940	*	CW		46			46	"					
			1950	*	CW		81			81	"					
			AVERAGES:				45			45						
55	North English	People's G Co	1890													
			1900													
			1910													
			1920	*	W		2			2	Lowe					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				2			2						
56	Sheldon	" G Co	1890													
			1900													
			1910													
			1920	*	W		12			12	Lowe					
			1930	*	W		9			9	"					
			1940	0												
			1950	0												
			AVERAGES:				11			11						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
57	Storm Lake	" G Co	1890													
			1900													
			1910													
			1920	*	W		5			5	Tenney					
			1930	*	CW		17			17	"					
			1940	*	CW		17			17	"					
			1950	N												
			AVERAGES:				13			13						
58	Waverly	" G Co	1890													
			1900													
			1910													
			1920	*	W		12			12	Tenney					
			1930	*	W		14			14	"					
			1940	0												
			1950	0												
			AVERAGES:				13			13						
59	Webster City	" G Co	1890													
			1900													
			1910													
			1920	*	W		14			14	Lowe					
			1930	*	W		(6)				"					
			1940	*	W		18			18	"					
			1950	0												
			AVERAGES:				16			16						
60	Carroll	Iowa Railway&L Corp	1890													
			1900													
			1910													
			1920													
			1930	*	W		13			13						
			1940	*	W		15			15						
			1950	0												
			AVERAGES:				14			14						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: IOWA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
61	Cedar Falls	City of " GW&E Dept	1890													
			1900													
			1910													
			1920													
			1930													
			1940	*	CW			61		61						
			1950	*	CW			143		143						
			AVERAGES:					102		102						
62	Cedar Rapids	Iowa Southern Util Co	1890													
			1900													
			1910													
			1920													
			1930													
			1940	*	W			13		13	Low					
			1950	N												
			AVERAGES:					13		13						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Arkansas City	" G&EL Co	1890	*	C	4				4						
			1900	*	C	4				4						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			4				4						
2	Atchison	" GEL&Power Co	1890	*	C	20				20						
			1900	*	C	14				14						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			17				17						
3	El Dorado	" G&EL Co	1890	*	W		(6)				Lowe (Sp)					
			1900	*	W		3			3						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				3			3						
4	Emporia	" E&GL Co	1890	*	C	5				5						
			1900	*	C	8				8						
			1910	*	C	18				18						
			1920	*	C, W	17	4			21						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			12	4			13						

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: KANSAS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Fort Scott	City G Co	1890	*	C	(5)										
			1900	*	C	16				16						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			16				16						
6	Great Bend	" G&Coke Co	1890	*	?											
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
7	Hutchinson	" G&Fuel co	1890	*	W			6		6						
			1900	*	W			6		6						
			1910	*	W			27		27						
			1920	N												
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:					13		13						
8	Lawrence	" GF&EL Co	1890	*	C	11				11						
			1900	*	C	15				15						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			13				13						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Leavenworth	" L&Heating Co	1890	*	C	25				25						
			1900	*	C	35				35						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			30				30						
10	Newton	" Illuminating Co	1890	*	W			4		4	Lowe (Sp)					
			1900	*	W			5		5	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					5		5						
11	Ottawa	" G Co	1890	*	W			(8)			H-L					
			1900	*	W			8		8	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					8		8						
12	Parson's	" L&Heat Co	1890	*	C	(10)										
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: KANSAS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Pittsburg	" GL&Coke Co	1890	*	C	13				13						
			1900	N												
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			13				13						
14	Salina	Topeka	1890	*	W			(10)								
			1900	*	W		7			7						
			1910	*	C	14				14						
			1920	*	C	41				41						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			28	7			21						
15	Topeka	" The Excelsior Coke & Coal Co	1890	*	C	35				35						
			1900	*	C	33				33						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			34				34						
16	Winfield	" G Co	1890	*	C	6				6						
			1900	*	C	5				5						
			1910	*	C	9				9						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			7				7						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: KANSAS

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia	
21	Concordia	* G Co	1890											
			1900											
			1910											
			1920	*	W		20		20	Tenney				
			1930	*	W		20		20	"				
			1940	0										
			1950	0										
			AVERAGES:				20		20					
22	Junction City	* G Co	1890											
			1900											
			1910											
			1920	*	W		24		24	Tenney				
			1930	0										
			1940	0										
			1950	-										
			AVERAGES:				24		24					
23	Marhattan	* G&E Co	1890											
			1900											
			1910											
			1920	*	C, W		30		30					
			1930	0										
			1940	0										
			1950	-										
			AVERAGES:				30		30					

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Bellevue	" W&FG Co	1890	*	W			1		1	Lowe (Sp)					
			1900	*	W			10		10	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					6		6						
2	Bowling Green	" GL Co	1890	*	C	(10)										
			1900	*	C	12				12						
			1910	*	C	13				13						
			1920	*	C	23				23						
			1930	*	C	55				55		3	54			
			1940	0												
			1950	0												
			AVERAGES:			26				26		3	54			
3	Covington	GL Co	1890	*	C	1				1						
			1900	*	C	53				53						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			27				27						
4	Danville	GL Co	1890	*	C	(4)										
			1900	*	C	6				6						
			1910	*	C	15				15						
			1920	*	C	15				15						
			1930	*	C	20				20		1	23			
			1940	N												
			1950	N												
			AVERAGES:			14				14		1	23			

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: KENTUCKY

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Frankfort	Capital Gas & EL Co	1890	*	W		12			12	Lowe					
			1900	*	W		12			12	"					
			1910	*	W		25			25	"					
			1920	N												
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:				16			16						
6	Georgetown	" GL Co	1890	*	C		2			2						
			1900	*	C		2			2						
			1910	*	W			3		3						
			1920	*	W		4			4						
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:			2	4			3						
7	Henderson	" City Gas Works	1890	*	C		13			13						
			1900	*	C		15			15						
			1910	*	C		15			15						
			1920	*	C		15			15						
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:			15				15						
8	Hopkinsville	" G Co	1890	*	C		(7)									
			1900	*	C		7			7						
			1910	*	C, W		8	4		12						
			1920	*	C		12			12						
			1930	*	C		23			23		2	22			
			1940	O												
			1950	O												
			AVERAGES:			13	4			14		2	22			

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Lebanon	" GL Co	1890	*	O				(3)							
			1900	*	P				(3)							
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
10	Lexington	" G Co	1890	*	W			18		18	Low					
			1900	*	W			15		15	"					
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:						17		17					
11	Louisville	Citizen's GL Co	1890	*	W			(200)			Low					
			1900	*	W			350		350	"					
			1910	*	W			600		600	"					
			1920	X												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:						475		475					
12	Louisville	" G Co	1890	*	W			(200)			Low					
			1900	*	W			300		300	"					
			1910	*	W			575		575	"					
			1920	O												
			1930	*	CW			1,193		1,193						
			1940	*	W			1,498		1,498						
			1950	*	W			3,362		3,362						
			AVERAGES:						1,306		1,306					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1893-1950)

STATE: KENTUCKY

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Maysville	Citizen's GL Co	1890	*	C	(18)										
			1900	0												
			1910	*	C	12					12					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			12					12					
14	Mt Sterling	" GL Co	1890	*	0	(6)										
			1900	N												
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
15	Newport	" L Co	1890	*	C	20					20					
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			20					20					
16	Owensboro	" G Co	1890	*	C	10					10					
			1900	*	C	15					15					
			1910	*	C	30					30					
			1920	*	C	50					50					
			1930	*	C	45					45	2	35			
			1940	N												
			1950	N												
			AVERAGES:			30					30	2	35			

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
17	Paducah	" GL Co	1890	*	C	12				12					
			1900	*	C	20				20					
			1910	*	C	28				28					
			1920	*	C	52				52					
			1930	*	C	135				135					
			1940	*	C,W	25	107			132	1		73		
			1950	N											
			AVERAGES:			45	107			63	1		73		
18	Paris	6 Co pf "	1890	*	C	4				4					
			1900	*	C	10				10					
			1910	*	C	12				12					
			1920	0											
			1930	0											
			1940	-											
			1950	-											
			AVERAGES:			9				9					
19	Richmond	" GL Co	1890	*	0			4		4					
			1900	*	0			6		6					
			1910	*	C	7				7					
			1920	*	C	8				8					
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:			8		5		6					
20	Shelbyville	" 6 Co	1890	*	C	4				4					
			1900	*	C	(4)									
			1910	*	C	(4)									
			1920	*	C	7				7					
			1930	*	C,W	4	151			155	1		7		
			1940	0											
			1950	0											
			AVERAGES:			5	151			55	1		7		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: KENTUCKY

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Dil	Coke	Total		Coke	Tar	Ammonia	Other	
21	Maysville			* G Co											
		1890	*		C										
		1900	N												
		1910	O												
		1920	O												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:													

[illegible]

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: LOUISIANA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Jennings	Southern L & H Co	1890													
			1900													
			1910	*	0			(5)			Beal's					
			1920	*	0			9		9	"					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					9		9						
6	Gretna	" GL & F Co	1890													
			1900													
			1910													
			1920	*	W			?			Tenney					Under construction
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:													
7	Lake Charles	" G Co	1890													
			1900													
			1910													
			1920	*	W			[16]			Tenney					
			1930	*	CW			93		93	"					
			1940	0												
			1950	0												
			AVERAGES:					93		93						

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
1	Augusta	Kennebec L&Heat Co	1890	*	W		6		6	Lowe (G)				
			1900	*	W		30		30	"				
			1910	*	W		20		20	"				
			1920	*	W		36		36	"				
			1930	*	W		84		84	"		25		
			1940	*	W		?			"				
			1950	*	CW		12		12	"				
			AVERAGES:				31		31			25		
2	Bangor	" GL Co	1890	*	C		18		18					
			1900	0										
			1910	*	C		58		58					
			1920	*	C		74		74		(2)		(1)	
			1930	*	C		67		67		(2)	77		
			1940	*	C, W		117	15	132		(3)	89		
			1950	*	0			190	190			170		
			AVERAGES:				67	15	90			112		
3	Bath	" GL Co	1890	*	C		3		3					
			1900	*	C		6		6					
			1910	*	C		8		8					
			1920	*	W		16		16	Terney				
			1930	*	W		11		11	"				
			1940	0										
			1950	0										
			AVERAGES:				6	14	9					
4	Belfast	" GL Co	1890	*	C		2		2					
			1900	N										
			1910	*	C		2		2					
			1920	*	C		2		2					
			1930	0										
			1940	0										
			1950	-										
			AVERAGES:				2		2					

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES -- ALL PLANTS (1890-1950)

STATE: MAINE

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Brunswick	" GL Co	1890	*	O			1		1						
			1900	N												
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					1		1						
6	Calais	St Croix GL Co	1890	*	C	4				4						
			1900	*	C	5				5						
			1910	*	C	7				7						
			1920	*	C	8				8						
			1930	*	C	6				6		1	7			
			1940	O												
			1950	O												
			AVERAGES:			6				6		1	7			
7	Eastport	" B&E Co	1890	*	?					(6)						
			1900	O												
			1910	O												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
8	Lewiston	" GL Co	1890	*	W		12			12	Lowe					
			1900	*	W		35			35	"					
			1910	*	W		53			53	"					
			1920	*	W		136			136	"					
			1930	*	CW		263			263	"				100	
			1940	*	CW		265			265	"					
			1950	*	CW		573			573	"					
			AVERAGES:				191			191					100	

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Portland	" GL Co	1890	*	C	150				150						
			1900	*	C	100				100						
			1910	*	C,W	165				165	Lowe					
			1920	*	C,W	410	54			464	"					
			1930	*	C,W	610	1			611	"	27	647		25	
			1940	*	C,W	29	687			716	"	1	900			
			1950	*	CW		1,119			1,119	"			1,275		
			AVERAGES:			244	465			475		14	941		25	
10	Rockland	" & Thomaston GL Co	1890	*	C	4				4						
			1900	*	C	4				4						
			1910	*	C	12				12						
			1920	*	C	22				22		1	24			
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			11				11		1	24			
11	Saco & Biddleford	" GL Co	1890	*	C	12				12						
			1900	N												
			1910	N												
			1920	N												
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:			12				12						
12	Biddleford	York L&H Co	1890													
			1900													
			1910	*	C	12				12						
			1920	*	C	25				25						
			1930	*	W		43			43						
			1940	*	CW		37			37						
			1950	*	CW		48			48						
			AVERAGES:			19	43			33						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MAINE

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Gardiner	Kennebec G&F Co	1890													
			1900													
			1910	P												
			1920	P												
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:													
14	Waterville	Kennebec G&F Co	1890													
			1900													
			1910													
			1920	*	W			16		16	Tenney					
			1930	*	W			35		35	" & Western					
			1940	O												
			1950	O												
			AVERAGES:					26		26						
15	Westbrook	" G Co	1890													
			1900													
			1910													
			1920	P												
			1930	P												
			1940	P												
			1950	O												
			AVERAGES:													
16	Peak Island	Casco Bay L&W Co	1890													
			1900													
			1910													
			1920													
			1930													
			1940	*	C			975		975						
			1950	O												
			AVERAGES:					975		975						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Annapolis	" GL Co	1890	*	C	?										
			1900	*	C	9				9						
			1910	*	C	10				10						
			1920	*	C	34				34						
			1930	P												
			1940	O												
			1950	O												
			AVERAGES:			18				18						
2	Baltimore	The Consolidated G Co of	1890	*	W	?					Lowe (J & W)					
			1900	*	W	1,350				1,350	"					
			1910	*	W	2,860				2,860	Lowe					
			1920	*	W	7,420				7,420	"					
			1930	*	CW	12,500				12,500	"					
			1940	*	CW, Coke	12,694				12,694	"					Unknown quantity of coke gas purchased in 1940 & 1950
			1950	*	W, O, Coke	?		?	?	20,070	"					
			AVERAGES:			7,365				9,482						
3	Cumberland	" GL Co	1890	*	C	12				12						
			1900	*	C	19				19						
			1910	*	C	20				20						
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:			17				17						
4	Cambridge	" G Co	1890	*	C	(4)										
			1900	*	C	(4)										
			1910	*	C	20				20						
			1920	*	C	15				15						
			1930	*	C	20				20		1	19			
			1940	*	C	22				22						
			1950	N												
			AVERAGES:			19				19		1	19			

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MARYLAND

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Easton	" G&EL Co	1890	*	C	1				1						
			1900	O												
			1910	*	W		6			6						
			1920	O												
			1930	C												
			1940	*	W		17			17						
			1950	*	W		34			34						
			AVERAGES:			1	19			15						
6	Elkton	" GL Works	1890	*	C	(3)										
			1900	*	C	2				2						
			1910	*	C	3				3						
			1920	*	C	4				4						
			1930	*	C	2				2						
			1940	P												
			1950	P												
			AVERAGES:			3				3						
7	Frederick City	The American L&Heat Co	1890	*	W	(10)					Lowe					
			1900	*	W	6				6	"					
			1910	*	W	16				16	"					
			1920	*	W	29				29	"					
			1930	*	W	54				54	"			15		
			1940	*	O			46		46	"			20		
			1950	*	CW		57			57	"			27		
			AVERAGES:			32		46		35				21		
8	Frostburg	" GL Co	1890	*	C	(5)										
			1900	*	C	4				4						
			1910	*	O			4		4	Paul					
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:			4		4		4						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Hagerstown	The American L&H Co Ltd	1890	*	W			5		5	Lowb					
			1900	*	W			24		24	"					
			1910	*	W			36		36	"					
			1920	*	W			116		116	"					
			1930	*	W			155		155	"			83		
			1940	*	W			140		140	"			36		
			1950	N												
			AVERAGES:					79		79				60		
10	Westminster	GL Co	1890	*	C			2		2						
			1900	*	C			3		3						
			1910	*	C			7		7						
			1920	*	C			8		8						
			1930	*	CW			(4)								
			1940	0												
			1950	0												
			AVERAGES:					5		5						
11	Havre de Grace	" G Co	1890													
			1900													
			1910	*	W			(5)			Lowb					
			1920	*	W			6		6	"					
			1930	*	CW			18		18	"					
			1940	0												
			1950	0												
			AVERAGES:					12		12						
12	Hyattsville	" G&E Co	1890													
			1900													
			1910	*	C			18		18						
			1920	*	C			40		40						
			1930	*	CW			42		42						
			1940	*	W			201		201						
			1950	N												
			AVERAGES:					29	122	75						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MARYLAND

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Salisbury	Home G Co of "	1890													
			1900													
			1910	*	W		11			11	Lowe					
			1920	*	W		29			29	"					
			1930	*	W		83			83	"			2		
			1940	*	W		146			146	"					
			1950	*	W		169			169	"					
			AVERAGES:				88			88				2		
14	Sparrows Point	Maryland Steel Co	1890													
			1900													
			1910	*	Coke				1,000	1,000	Otto-Hoff.					
			1920	N												
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:						1,000	1,000						
15	Chestertown	" G Co	1890													
			1900													
			1910													
			1920	*	W		5			5	Lowe					
			1930	*	CW		9			9	"					
			1940	*	CW		12			12	"					
			1950	0												
			AVERAGES:				9			9						
16	Crisfield	" L&P Co	1890													
			1900													
			1910													
			1920	*	W		13			13						
			1930	*	CW		21			21						
			1940	*	CW		17			17						
			1950	0												
			AVERAGES:				17			17						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Adams	" GL Co	1890	*	C	6				6						
			1900	*	W		6			6	Lowe					
			1910	P												
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:			6	6			6						
2	Amesbury	" G Co	1890	*	W		5			5	Lowe (Gray)					
			1900	*	W		6			6	Lowe (G)					
			1910	*	W		10			10	"					
			1920	*	W		20			20	"				20	
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:				10			10					20	
3	Amherst	" G Co	1890	*	O			1		1						
			1900	*	O			1		1	Patton					
			1910	*	O			1		1	"					
			1920	*	W		15			15	Lowe				(1)	
			1930	*	W		20			20	"				12	
			1940	O												
			1950	O												
			AVERAGES:				22	1		9					12	
4	Arlington	" G Co	1890	*	C	500				500						
			1900	*	C	11				11						
			1910	*	C, W	2	22			24						
			1920	*	W		211			211						
			1930	*	W		700			700						
			1940	P												
			1950	O												
			AVERAGES:			171	311			289						

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MASSACHUSETTS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Athol	Miller's River GL Co	1890	*	W			3			3					
			1900	*	W			5			5					
			1910	*	W			8			8					
			1920	*	W			17			17					
			1930	*	W		(16)									
			1940	*	W		?									
			1950	*	CW		38			38						
			AVERAGES:				14			14						
6	Attleboro	" CL Co	1890	*	C			7			7					
			1900	*	C			16			16					
			1910	*	C			43			43					
			1920	*	C			92			92					
			1930	P												
			1940	P												
			1950	P												
			AVERAGES:				40			40						
7	Beverly	" CL Co	1890	*	C			5			5					
			1900	*	C			12			12					
			1910	*	C			50			50					
			1920	*	C, W			52	76		128					
			1930	P												
			1940	P												
			1950	P												
			AVERAGES:				30	76		49						
8	Boston	The Bay State G Co	1890	*	W			25			25	Low (F)				
			1900	*	W			1,000			1,000	"				
			1910	C												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					513			513					

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Boston	" GL Co	1890	*	C	1,300				1,300						
			1900	*	C	1,100				1,100						
			1910	*	W		4,800			4,800	Lowe (J)					"Boston Cons. Gas Co."
			1920	*	W		7,900			7,900	"					
			1930	*	W		4,270			4,270	"					
			1940	*	W		756			756	"					Standby plant
			1950	*	W		4,400			4,400	"					1,373 tons of sulfur
			AVERAGES:			1,200	4,425			3,504						
10	Boston	Charleston G Co	1890	*	W		88			88	Lowe (G)					
			1900	*	W		140			140	"					
			1910	*	W		230			230	"					
			1920	*	W		389			389	"	21	438		172	
			1930	*	W		440			440	"	23	487		144	
			1940	0												
			1950	0												
			AVERAGES:				257			257		22	463		158	
11	Boston	Dorchester GL Co	1890	*	C	65				65						
			1900	*	C	220				220						
			1910	C												Cons. w/Boston Cons.G Co
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			143				143						
12	Boston	East Boston G Co	1890	*	C	39				39						
			1900	*	C	56				56						
			1910	*	C,W	98	62			160						
			1920	P												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			64	62			85						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MASSACHUSETTS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Boston	Jamaica Plain GL Co	1890	*	C	40				40						
			1900	*	C	100				100						
			1910	C												Cons. w/Boston Cons.G Co
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			70				70						
14	Boston	Roxbury GL Co	1890	*	C	175				175						
			1900	*	C	230				230						
			1910	C												Cons. w/Boston Cons.G Co
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			203				203						
15	Boston	S Boston GL Co	1890	*	C	(70)										
			1900	*	C	114				114						
			1910	C												Cons. w/Boston Cons.G Co
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			114				114						
16	Brockton	" GL Co	1890	*	C	15				15						
			1900	*	C	40				40						
			1910	*	C,W	72	104			176	Lowe					
			1920	*	C,W	202	303			505	"					
			1930	*	C,W	404	401			805	"	17	758		84	
			1940	*	C,W	478	244			722	"	18	618		26	
			1950	*	C,W	403	990			1,393	"	19	1,185			
			AVERAGES:			231	408			522		18	854		50	

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17 Brookline	" GL Co	1890	*	C	60					60					
		1900	*	C	700					700					
		1910	C												Cons. w/Boston Cons.G Co
		1920	-												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:				380					380				
18 Cambridge	" GL Co	1890	*	C	120					120					
		1900	*	C	280					280					
		1910	*	C,W	630					630	Lowe				
		1920	*	C,W	802	313				1,115	"	(31)	870		
		1930	*	C,W	1,432	102				1,534	"	90	1,605	486	
		1940	*	C	1,503					1,503			1,956		
		1950	*	O			2,429			2,429			3,348		
		AVERAGES:				795	208	2,429			1,087	90	1,945	486	
19 Chelsea	" GL Co	1890	*	C	35					35					
		1900	*	C	38					38					
		1910	C												Cons. w/Boston Cons.G Co
		1920	-												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:				37					37				
20 Chicopee	" Gas Works	1890	*	C	6					6					
		1900	*	C	15					15					
		1910	P												
		1920	-												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:				11					11				

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MASSACHUSETTS

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21	Clinton	" GL Co	1890	*	C	7				7						
			1900	*	C	12				12						
			1910	*	W		18			18	LOWE					
			1920	*	W		32			32	"					
			1930	*	W		49			49	"					
			1940	P												
			1950	P												
			AVERAGES:			10	33			24						
22	Cottage City	" G&EL Co	1890	*	O			?			LOWE					
			1900	*	O			3		3	"					
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					3		3						
23	Danvers	" GL Co	1890	*	C	2				2						
			1900	*	C	3				3						
			1910	P												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			3				3						
24	Dedham	" Hyde Park G&E Co	1890	*	C	8				8						
			1900	*	C	10				10						
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			9				9						

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT. /YR)					BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
25	East Hampton	"	G Co	1890	*	C	4				4				
				1900	*	C	4				4				
				1910	*	C	12				12				
				1920	*	C	23				23				
				1930	P										
				1940	D										
				1950	-										
	AVERAGES:				11			11							
26	Fall River	"	Gas Works Co	1890	*	C, W	54				54	Low			
				1900	*	C, W	158				158	"			
				1910	*	C, W	490				490	"			
				1920	*	C, W	792				792	"	(20)	(80)	(7)
				1930	*	C, W	638	291			929	"	24	915	171
				1940	*	C, W	715	240			955	"	28	1,000	12,000 gallons light oil
				1950	*	CW		426			426	"		109	
	AVERAGES:			475	319		543		26	675	171				
27	Fall River		Manufacturers GL Co	1890	*	C	14				14				
				1900	X										
				1910	-										
				1920	-										
				1930	-										
				1940	-										
				1950	-										
	AVERAGES:			14		14									
28	Fitchburg	"	G Co	1890	*	C	17				17				
				1900	*	C	25				25				
				1910	*	C, W	53	22			75	Low			
				1920	*	C, W	94	112			206	"			
				1930	*	C, W	196	55			251	"	(3)		(2)
				1940	*	C, W	161	118			279	"	9	236	
				1950	*	C, W	319	129			448	"	6	152	
	AVERAGES:			124	87		186		12	336					

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MASSACHUSETTS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Dil	Coke	Total		Coke	Tar	Ammonia	Other	
29	Gardner	" GL Co	1890	*	C	1				1						
			1900	*	C	2				2						
			1910	*	W		8			8						
			1920	*	W		25			25						
			1930	*	CW		44			44						
			1940	*	CW		24			24					16	
			1950	N												
			AVERAGES:			2	25			17					16	
30	Gloucester	" GL Co	1890	*	C	1				1						
			1900	*	C	30				30						
			1910	*	C	60				60						
			1920	*	C	96				96						
			1930	*	W		138			138					57	
			1940	*	CW		119			119					46	
			1950	*	CW		172			172					62	
			AVERAGES:			47	143			88					55	
31	Great Barrington	" GL Co	1890	*	W		1			1	Harlon					
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				1			1						
32	Greenfield	" GL Co	1890	*	C	4				4						
			1900	*	C	4				4						
			1910	*	W		15			15						
			1920	*	W		70			70						
			1930	*	CW		102			102					30	
			1940	*	CW		114			114					46	
			1950	*	CW		151			151					76	
			AVERAGES:			4	90			66					51	

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
33	Haverhill	" GL Co	1890	*	C,W	45				45					
			1900	*	C,W	113				113					
			1910	*	C,W	188				188					
			1920	*	C,W	418	163			581	W1				
			1930	*	CW		668			668	"		464		
			1940	*	CW		623			623	"		374		
			1950	*	CW		835			835	"		613		
			AVERAGES:			191	572			436			484		
34	Holyoke	" Gas Works	1890	*	C,W	50				50					
			1900	*	C,W	77				77					
			1910	*	C,W	102	68			170	LOWE				
			1920	*	C,W	153	124			277	"				
			1930	*	W		361			361	"	18	193		
			1940	*	CW		289			289	"				
			1950	*	CW		380			380	"				
			AVERAGES:			96	244			229		18	193		
35	Ipswich	" GL Co	1890	*	W		(5)				Harlon				
			1900	*	O			3		3	Kendall				
			1910	*	O			4		4	"				
			1920	*	O			4		4	"				
			1930	*	O			(20)			"				
			1940	P											
			1950	-											
			AVERAGES:					4		4					
36	Lawrence	" G Co	1890	*	C,W	80				80	Low				
			1900	*	C,W	150				150	"				
			1910	*	C,W	400				400	"				
			1920	*	C,W	416	259			675	"				
			1930	*	C,W	558	212			770	"	37	582	941	
			1940	*	C,W	250	437			687	"	12	800		
			1950	O											
			AVERAGES:			309	303			460		25		941	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MASSACHUSETTS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
37	Lee	" G Co	1890	*	W		?				S-G					
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
38	Leominster	" GL Co	1890	*	W			2		2	H-L					
			1900	*	W			3		3						
			1910	*	W			21		21	LOWE					
			1920	*	W			67		67	"					
			1930	*	W			101		101	"				34	
			1940	*	CW			73		73	"				37	
			1950	*	CW			122		122	"				58	
			AVERAGES:													
								56		56					43	
39	Lexington	" GL Co	1890	*	W			1		1						
			1900	*	W			1		1						
			1910	*	W			1		1						
			1920	P												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
								1		1						
40	Lowell	" GL Co	1890	*	C, W			210		210						
			1900	*	C, W			330		330						
			1910	*	C, W			392	130	522						
			1920	*	C, W			600	233	833						
			1930	*	C, W			710	80	790		(14)	683	250		
			1940	*	C			721		721		(10)	640	131		
			1950	*	C, W			628	379	1,007		35	779			
			AVERAGES:													
								513	206	630		35	701	191		

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
41	Lynn		*	C, W	63				63	Lowe (G)					
					185				185	"					
					525				525	"					
					980				980	"					
					767	601			1,368	"	(2)	875	238		
						454		697	1,151	"	(14)	683	250		
						1,408		270	1,678	"	12	1,535			
					AVERAGES:	504	821	484	850		12	1,031	244		
42	Malden		*	C	32				32						
					75				75						
					309				309	Lowe					
					263	874			1,137	"					
					818	1,067			1,885	"	33	1,663	755		
					663	1,056			1,719	"	(16)	2,130	183		
					632	1,906			2,538	"	25	2,734			
					AVERAGES:	399	1,226		1,099		29	2,176	469		
43	Marblehead		*	C	3				3						
					11				11						
					5				5						
					1920	0									
					1930	0									
					1940	-									
					1950	-									
					AVERAGES:	6			6						
44	Marlborough		*	C	5				5						
					8				8						
					34				34						
					1920	P									
					1930	-									
					1940	-									
					1950	-									
					AVERAGES:	16			16						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES -- ALL PLANTS (1890-1950)

STATE: MASSACHUSETTS

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
45	Mansfield	" G&EL Co	1890	*	?					?						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
46	Methven	" GL Co	1890	*	0			?								
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
47	Middleboro	" G&EL Co	1890	*	0			1		1	Patton					
			1900	*	0			2		2	"					
			1910	*	0			1		1	"					
			1920	*	W		10			10						
			1930	P												
			1940	P												
			1950	-												
			AVERAGES:													
48	Milford	" G Co	1890	*	C	9				9						
			1900	*	C	11				11						
			1910	*	C	15				15						
			1920	*	C	22				22		(1)		8		
			1930	*	C,O	19			17	36		1		19		
			1940	P												
			1950	P												
			AVERAGES:													
				15			17	19		1		14				

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft. /YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
49	Monson	"	G&E Co												
		1890	*	?					?						
		1900	0												
		1910	0												
		1920	-												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:													
50	Nantucket	"	GL Co												
		1890	*	C	2				2						
		1900	*	C	2				2						
		1910	*	C	4				4						
		1920	*	C	9				9		(0)	8			
		1930	*	?	?										
		1940	*	CW	43				43						
		1950	*	CW	81				81				61		
		AVERAGES:			24				24				35		
51	Natick	"	GL Co												
		1890	*	C	4				4						
		1900	*	C	5				5						
		1910	*	C	15				15						
		1920	P												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:			8				8						
52	New Bedford	"	GL Co												
		1890	*	C	50				50						
		1900	*	C	80				80						
		1910	*	C,W	117	226			343	Low					
		1920	*	C,W	86	728			814	"					
		1930	*	CW		1,079			1,079	"			1,320		
		1940	*	CW		1,003			1,003	"					
		1950	0												
		AVERAGES:			83	759			561				1,320		

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MASSACHUSETTS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
53	Newbury port	" G&E Co	1890	*	C	10				10						
			1900	*	C	14				14						
			1910	*	C	31				31						
			1920	*	C	50				50						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			26				26						
54	Newton & Watertown	" GL Co	1890	*	C	50				50						
			1900	*	C	103				103						
			1910	P												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			77				77						
55	North Adams	" GL Co	1890	*	C	20				20						
			1900	*	C	51				51						
			1910	*	C	73				73						
			1920	*	W		150			150	Lowe					
			1930	*	W		225			225	"		103			
			1940	*	W		203			203	"					
			1950	*	W		299			299	"		148			
			AVERAGES:			48	219			146			126			
56	Northampton	" GL Co	1890	*	C	12				12						
			1900	*	C	25				25						
			1910	*	C,W	35	15			50						
			1920	*	C,W	38	68			106						
			1930	*	W		197			197			165			
			1940	*	CW		168			168			82			
			1950	*	CW		253			253			172			
			AVERAGES:			28	140			116			140			

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MASSACHUSETTS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
61	Plymouth	" GL Co	1890	*	C	4				4						
			1900	*	C	6				6						
			1910	*	C	10				10						
			1920	*	C	29				29		(1)	33			
			1930	P												
			1940	P												
			1950	-												
			AVERAGES:			12				12					33	
62	Quincy	Citizen's GL Co	1890	*	C	8				8						
			1900	*	C	7				7						
			1910	P												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			8				8						
63	Salem	" GL Co	1890	*	C,W	40				40						
			1900	*	C,W	56				56						
			1910	*	C,W	135				135						
			1920	*	C,W	96	181			277		7	140		28	
			1930	*	C,W	229	335			564		(9)	400		24	
			1940	*	C,W	379	229			608		(4)	618			
			1950	*	C,W	105	926			1,031		6	1,208			
			AVERAGES:			149	418			387		7				
64	Southbridge	Mutual GL Co	1890	*	O			1		1	Lowe					
			1900	*	O			3		3	"					
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					2		2						

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
65	South Framingham	" G Fuel&P Co	1890	*	W		?				Loomis				Under construction
			1900	*	W		8		8	"					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				8		8						
66	Spencer	" G Co	1890	*	W		10			10	Evans				
			1900	*	W		7		7	"					
			1910	*	W		19		19	Lowe					
			1920	*	W		27		27	"					
			1930	*	W		34		34	"					
			1940	*	CW		20		20	"		12			
			1950	*	CW		21		21	"		20			
			AVERAGES:				20		20			16			
67	Springfield	" GL Co	1890	*	C, W		82			82	Lowe				
			1900	*	C, W		160		160	"					
			1910	*	C, W		450		450	"					
			1920	*	C, W		534	720	1,254	2,508	"	(25)	1,100	8	
			1930	*	C, W		1,210	800		2,018	"	(-)	1,573	65	
			1940	*	C, W		1,495	138		1,633	"				
			1950	*	C, W		1,466	1,658		3,124	"				
			AVERAGES:				771	831	1,254	1,425			1,337	37	
68	Stoughton	" L&P Co	1890	*	0			(5)							Petroleum feed (naphtha)
			1900	*	0			1		1					
			1910	*	0			1		1					
			1920	0											
			1930	0											
			1940	-											
			1950	-											
			AVERAGES:					1		1					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MASSACHUSETTS

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****	
					Coal	Water	Oil	Coke	Total		Coke	Tar
69 Taughton	" GL Co	1890	*	C	30				30			
		1900	*	C	50				50			
		1910	*	C	98				98			
		1920	*	C,W	217	25			242		7	300
		1930	*	C,W	?							
		1940	*	C,W	347	218			565			
		1950	*	C,W	342	502			844		17	749
		AVERAGES:			181	248			305		12	525
70 So. Reading/Stoneham	Citizen's GL Co of "	1890	*	C	5				5			
		1900	P									
		1910	-									
		1920	-									
		1930	-									
		1940	-									
		1950	-									
		AVERAGES:			5				5			
71 Waltham	" GL Co	1890	*	C	26				26			
		1900	*	C	38				38			
		1910	C									
		1920	-									
		1930	-									
		1940	-									
		1950	-									
		AVERAGES:			32				32			
72 Ware	" GL Co	1890	*	C	5				5			
		1900	*	C	5				5			
		1910	*	C	14				14			
		1920	*	C	18				18			
		1930	*	C	19				19		1	20
		1940	N									
		1950	N									
		AVERAGES:			12				12		1	20

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft. / YR)					BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
73 Webster	" E Co	1890	*	C	2				2						
		1900	*	W		3			3	Lowe					
		1910	*	W		26			26	"					
		1920	*	W		85			85	"					
		1930	*	W		149			149	"					
		1940	*	CW		148			148	"					
		1950	*	CW		250			250	"			123		
		AVERAGES:			2	110			95				123		
74 Westfield	" EL Co	1890	*	C, W	7				7						
		1900	*	C, W	11				11						
		1910	*	C, W	29				29						
		1920	*	C, W	59				59						
		1930	*	C, W	61	43			104		4		92		
		1940	*	C, W	31	59			90		(1.3)		49		
		1950	*	C, W	41	134			175		2		68		
		AVERAGES:			34	79			68		3		70		
75 West Springfield	" G Co	1890	*	?					?					Under construction	
		1900	0												
		1910	0												
		1920	-												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:													
76 Williamstown	" G Co	1890	*	0			(4)								
		1900	*	0			2		2						
		1910	P												
		1920	-												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:					2		2						

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MASSACHUSETTS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
77	Woburn	" GL Co	1890	*	C	8				8						
			1900	*	C	12				12						
			1910	*	C	15				15						
			1920	*	C	25				25						
			1930	P												
			1940	P												
			1950	-												
			AVERAGES:			15				15						
78	Worcester	" GL Co	1890	*	C,W	112				112	Lowe					
			1900	*	C,W	250				250	"					
			1910	*	C,W	360	240			600	"					
			1920	*	C,W	674	409			1,083	"	(40)	1,050			
			1930	*	CW		1,554			1,554	"			460		
			1940	*	CW		2,142			2,142	"			3,070		
			1950	*	CW		4,813			4,813	"			4,586		
			AVERAGES:			349	1,832			1,508				2,292		
79	Boston (Everett)	New England G&Coke Co	1890													
			1900	*	Coke				10	10	Otto-Hoff.					Plant located at Everett, MA
			1910	*	Coke				7	7	"					
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:						9	9						
80	Stonham	People's Gas&E Co	1890													
			1900	*	O			3		3	Kendall					
			1910	*	O			5		5	"					
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:					4		4						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
81	Wakefield	" Municipal L Plant	1890													
			1900	*	C	8				8						
			1910	*	C, W	34	16			50						
			1920	0												
			1930	P												
			1940	P												
			1950	0												
			AVERAGES:			21	16			29						
82	Ware	" GL Co	1890													
			1900	*	C	5				5						
			1910	*	C	18				18						
			1920	*	C	?										
			1930	*	C	?										
			1940	*	C	18				18		1		19		
			1950	0												
			AVERAGES:			14				14		1		19		
83	Framingham	" GF&P Co	1890													
			1900													
			1910	*	C, Coke	19				19						
			1920	*	C, Coke	114				114						
			1930	*	Coke				500	500						
			1940	0												
			1950	0												
			AVERAGES:			67			500	238						
84	Hyde Park	" GL Co	1890													
			1900													
			1910	*	C	?										
			1920	*	C	130				130						
			1930	P												
			1940	P												
			1950	0												
			AVERAGES:			130				130						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1850-1950)

STATE: MASSACHUSETTS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
85	Oaks Bluff	Vineyard L Co	1890													
			1900													
			1910	*	W			3		3	Low					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:					3		3						
86	Revere	Suburban	1890													
			1900													
			1910	P												
			1920	P												
			1930	P												
			1940	P												
			1950	P												
			AVERAGES:													
87	Warren	Worcester County G Co	1890													
			1900													
			1910	P												
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:													
88	Braintree	Old Colony G Co	1890													
			1900													
			1910													
			1920	*	W		118			118	Low					
			1930	*	W		324			324	"					
			1940	P												
			1950	0												
			AVERAGES:				221			221					44	

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
89	Palmer			" CL Co										
		1890												
		1900												
		1910												
		1920												
		1930	#	W				15	15				17	
		1940	0											
		1950	0											
		AVERAGES:						15	15				17	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MICHIGAN

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
1	Adrian	" G Co	1890	*	C	(10)									
			1900	*	C, W	12				12					
			1910	*	C, W	42	3			45	Lowe				
			1920	*	C	81				81					
			1930	*	C	120				120		7	100		
			1940	N											
			1950	N											
			AVERAGES:			64	3			64		7	100		
2	Alpena	" G Co	1890	*	C	5				5					
			1900	*	C	4				4					
			1910	*	C	15				15					
			1920	*	C	17				17		1	16		
			1930	*	C	35				35		2	43		
			1940	*	C	37				37		(0.3)	40		
			1950	N											
			AVERAGES:			19				19		2	33		
3	Ann Arbor	" G Co	1890	*	C	11				11					
			1900	*	C, W	35				35	Lowe				
			1910	*	C, W	128	7			135	"				
			1920	*	C, W	236	3			239	"	4	40	(0)	
			1930	*	C, W	247	185			432	"	(2)	253	62	
			1940	N											
			1950	N											
			AVERAGES:			131	65			170		4	147	62	
4	Battle Creek	" GL Co	1890	*	C	8				8					
			1900	*	C	18				18					
			1910	*	C, W	139	46			185	Lowe				
			1920	*	C, W	440	97			537	"	10	13	(0)	
			1930	*	C, W	933	370			1,303	"	(15)	975	390	
			1940	*	W, Coke		69		731	800	"				
			1950	N											
			AVERAGES:			308	146		731	475		10	494	390	

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
5	Bay City	" GL Co	1890	*	C	15				15					
			1900	*	C	19				19					
			1910	*	C	86				86					
			1920	C											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			40				40					
6	Big Rapids	" Gas Works	1890	*	O			(6)		Patton					
			1900	*	O			5		5					
			1910	*	O			6		6					
			1920	*	O			10		10					
			1930	*	C	16				16					
			1940	N											
			1950	N											
			AVERAGES:			16		7		9					
7	Charlotte	G Co	1890	*	O			(5)		Patton					
			1900	*	O			3		3					
			1910	*	C,W	14				14					
			1920	*	C,W	43				43					
			1930	C											
			1940	-											
			1950	-											
			AVERAGES:			29		3		20					
8	Coldwater	" GL Co	1890	*	C	3				3					
			1900	*	C	12				12					
			1910	*	C	30				30					
			1920	*	C	35				35	(1)				
			1930	*	C	54				54	3		61		
			1940	*	C	42				42	2		46		
			1950	N											
			AVERAGES:			29				29	3		54		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MICHIGAN

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Detroit	" GL Co	1890	*	C,W	120				120	Lowe					
			1900	*	C,W	500				500	"					
			1910	*	C,W,Coke	990	720		1,290	3,000	"					
			1920	*	C,W,Coke	3,630	2,640		4,730	11,000	"					
			1930	*	C,CW,O	2,568	10,588	3		13,159	"					
			1940	*	CW		514			514	Steere				174	
			1950	*	CW		856			856	"				455	
			AVERAGES:			1,562	3,064	3	3,010	4,164					315	
10	Detroit	Mutual G Co	1890	*	C	125				125						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			125				125						
11	East Saginaw	" G Co	1890	*	C	31				31						
			1900	*	C	40				40						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			36				36						
12	Flint	City of Flint G Co	1890	*	W		9			9	H-L					
			1900	*	W		13			13	"					
			1910	*	W		124			124	"					
			1920	P												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				49			49						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Grand Haven	" G Co	1890	*	C	(7)										
			1900	0												
			1910	*	C	16				16						
			1920	*	C	47				47		1		7		
			1930	*	C	75				75		4		84		
			1940	*	C, O	55		3		58		3		78		
			1950	N												
			AVERAGES:			48		3		49		3		56		
14	Grand Rapids	" FG & Incandescent L Co	1890	*	C	(80)					Evans (Fahrenheit)					
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
15	Grand Rapids	" GL Co	1890	*	C	100				100						
			1900	*	C, W	260				260	Lowe					
			1910	*	C, W	840				840	"					
			1920	*	C, W	1,280				1,280	"					
			1930	*	C, W	1,512	362			1,874	"	(36)	1,595	292		
			1940	N												
			1950	N												
			AVERAGES:			798	362			871			1,595	292		
16	Greenville	" G Works	1890	*	C	(5)										
			1900	*	C	4				4						
			1910	*	C	10				10						
			1920	0												
			1930	*	C	21				21		(-)		16		
			1940	N												
			1950	N												
			AVERAGES:			12				12				16		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MICHIGAN

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Hillsdale		"	G Co	1890	*	C		7						
					1900	*	C		7						
					1910	*	C		22						
					1920	*	C		32						
					1930	*	C		28		(0.2)		28		
					1940	*	C,O		37		2		37		
					1950	N									
					AVERAGES:				22		2			33	
18	Ionia		"	GL Coke Co	1890	*	C		5						
					1900	*	C		12						
					1910	*	C		21						
					1920	*	C		37						
					1930	*	C		48		3		47		
					1940	O									
					1950	O									
					AVERAGES:				25		3		47		
19	Jackson		"	GL Co	1890	*	C		(25)						
					1900	*	C		45						
					1910	*	C,W		185		Low				
					1920	*	C,W		1,400	600	2,000				
					1930	*	C,W		575	265	840		(5)	(72)	(-)
					1940	*	Coke				586		(-)	656	210
					1950	N									
					AVERAGES:				551	433	586			656	210
20	Jackson			National G& F Co	1890	*	C		100		100	Evans			
					1900	O									
					1910	O									
					1920	-									
					1930	-									
					1940	-									
					1950	-									
					AVERAGES:				100		100				

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21	Kalamazoo	" GL Co	1890	*	C	(22)									
			1900	*	C	40			40						
			1910	*	C	230			230						
			1920	C										Cons. w/ Jackson	
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			135			135						
22	Lansing	" GL Co	1890	*	C, W	12				12	LOWE (S)				
			1900	*	C, W	33			33	"					
			1910	*	C, W	119	51		170	"					
			1920	*	C, W	348	166		514	"	(8)	(-)	(9)		
			1930	*	C, W	833	337		1,170	"	47	947	199		
			1940	N											
			1950	N											
			AVERAGES:			269	185		380		47	947	199		
23	Luddington	" GL Co	1890	*	C	(6)									
			1900	Q											
			1910	*	C	10			10						
			1920	*	C	22			22		1	26			
			1930	*	C	47			47		2	61			
			1940	*	C	42			42		(0.4)	41			
			1950	N											
			AVERAGES:			30			30		2	43			
24	Manistee	" GL&Coke Co	1890	*	C	(20)									
			1900	*	C	5			5						
			1910	*	C, W	11			11	LOWE					
			1920	*	C, W	30			30	"					
			1930	*	CW		32		32	"					
			1940	*	CW		39		39	"					
			1950	N											
			AVERAGES:			15	36		23						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MICHIGAN

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Dil	Coke	Total		Coke	Tar	Ammonia	Other	
25	Marquette			"	GL Co	1890	*	C,W	7	7	Lowe (S)				
						1900	*	C,W	10	10					
						1910	*	C,W	21	2					
						1920	0								
						1930	*	W		30		(0.1)		29	
						1940	0								
						1950	0								
						AVERAGES:			13	16				29	
26	Marshall			"	L Co	1890	*	C,W	6	6	Lowe (G)				
						1900	0								
						1910	*	C,W	12	12					
						1920	*	C,W	15	15		1		17	
						1930	*	C,W	41	4					
						1940	*	CH		29					
						1950	N								
						AVERAGES:			19	17		1		17	
27	Monroe City			"	GL Co	1890	*	C,W	(7)						
						1900	*	C,W	6	6					
						1910	*	C,W	24	24					
						1920	*	C,W	57	3		(2)		(-)	
						1930	*	C,W	54	13		6		108	
						1940	*	C,W	99	18		5		97	
						1950	N								
						AVERAGES:			48	11		6		103	
28	Muskegon City			"	GL Co	1890	*	C	15	15					
						1900	*	C	15	15					
						1910	*	W		69					
						1920	*	W		115					
						1930	*	W		276					
						1940	N								
						1950	N								
						AVERAGES:			15	153					

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
29	Negaunee	" GL Co	1890	*	O			1		1					Crude petroleum feed
			1900	*	O			?							" " "
			1910	*	C	24				24					
			1920	*	C	25				25					
			1930	O											
			1940	O											
			1950	-											
			AVERAGES:			25		1		17					
30	Niles	" GL Co	1890	*	W			4		4	Low				
			1900	*	W			7		7	"				
			1910	*	C	21				21					
			1920	*	C	40				40					
			1930	*	C	20				20					
			1940	O											
			1950	O											
			AVERAGES:			27	6			18					
31	Dwosso	" GL Co	1890	*	C, W	5				5	H-L				
			1900	*	C, W	9				9	"				
			1910	*	C, W	20	1			21	"				
			1920	*	C, W	100				100		(1)	(8)		
			1930	*	C, W	107	12			119		6	122		
			1940	P											
			1950	N											
			AVERAGES:			48	7			51		6	122		
32	Pontiac	LR Medbury G Works	1890	*	C	1				1					
			1900	*	C	13				13					
			1910	*	C, W	41	2			43	Low				
			1920	*	C, W	125	30			155	"	8	150		
			1930	*	C, CW	592	910			1,502	"	33	558	159	
			1940	*	W, Coke		1,410	325		1,735	"				
			1950	O											
			AVERAGES:			154	588	325		575		21	519	159	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MICHIGAN

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
33	Port Huron	" GL Co	1890	*	C	7				7						
			1900	*	C	38				38						
			1910	*	C,W	64	18			82	Lowe					
			1920	0												
			1930	*	CW		393			393	Steere			232		
			1940	0												
			1950	0												
			AVERAGES:			36	206			130				232		
34	St John's	Mutual G Co	1890	*	W			3		3	Lowe (S)					
			1900	*	W			2		2	"					
			1910	*	W			5		5	"					
			1920	*	W			10		10	"					
			1930	*	W			13		13	"					
			1940	0												
			1950	0												
			AVERAGES:					7		7						
35	Saginaw	" GL Co	1890	*	C	0										
			1900	*	C	15				15						
			1910	*	C,W	183	2			185	Lowe					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			66	2			100						
36	Sturgis	" G&EL Co	1890	*	C	?										
			1900	0												
			1910	0												
			1920	*	C	27				27		(-)	(-)			
			1930	*	C	46				46		(0)	36			
			1940	*	C,O	41		7		48		2	50			
			1950	0												
			AVERAGES:			38		7		40		2				

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
37	Ypsilanti	" G Co	1890	*	C	(7)										
			1900	*	C	12				12						
			1910	*	C, W	38	2			40						
			1920	*	C, W	67	1			68		(-)	(-)			
			1930	*	C, W	107	1			108		6	107			
			1940	*	C	132				132		6	102			
			1950	0												
			AVERAGES:			71	1			72		6	105			
38	Albion	" G&Coke Co	1890													
			1900	*	C	1				1						
			1910	*	C	23				23						
			1920	*	C	40				40			(4)			
			1930	*	C	80				80			4		70	
			1940	*	C	71				71			4		63	
			1950	N												
			AVERAGES:			43				43			4		67	
39	Benton Harbor	" -St Joseph G Co	1890													
			1900	*	C	17				17						
			1910	*	W		75			75	P-E					
			1920	*	W		111			111	Lowe					
			1930	*	W		226			226	"					
			1940	*	C, W	178	67			245	"	10	250			
			1950	*	W		201			201	"					
			AVERAGES:			98	136			146		10	250			
40	Escanaba	City Lighting Plant	1890													
			1900	*	O			1		1	Patton					
			1910	*	O			1		1	"					
			1920	*	W		31			31						
			1930	*	CW		53			53						
			1940	*	CW		45			45						
			1950	*	CW		93			93				89		
			AVERAGES:				56	1		37				89		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MICHIGAN

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION	
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other		
41	Menominee	"	G Co	1890												
				1900	*	C	(13)									
				1910	*	C	13				13					
				1920	*	C	34				34		(1)		(-)	
				1930	*	C	104				104		6		82	
				1940	*	W		94			94					
				1950	*	W		211			211				104	
				AVERAGES:			50	153			91		6		93	
42	Mt Clemens	"	G Co	1890												
				1900	*	C, W	6				6					
				1910	*	C, W	30				30					
				1920	*	C, W	59				59		3		56	
				1930	*	C, W	139	149			288		7		189	
				1940	0											
				1950	0											
				AVERAGES:			59	149			96		5		123	
43	Belding	"	Gas Works	1890												
				1900												
				1910	*	C	(5)									
				1920	*	C	15				15					
				1930	*	C	18				18		1		20	
				1940	*	C	8				8		(2.3)		10	
				1950	0											
				AVERAGES:			14				14		1		15	
44	Cadillac	"	GL Co	1890												
				1900												
				1910	*	C	18				18					
				1920	*	C	27				27					
				1930	*	C	34				34		(0.3)		36	
				1940	*	C	28				28		2		29	
				1950	N											
				AVERAGES:			27				27		2		33	

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
45	Cheboygan			" GL Co	1890										
					1900										
					1910	*		C							
					1920	*		C							
					1930	*		C			(-)		7		
					1940	0									
					1950	-									
					AVERAGES:									7	
46	Debray			" &Surburban G Co	1890										
					1900										
					1910	*		C, W	64	16	80	LCWE			
					1920	0									
					1930	-									
					1940	-									
					1950	-									
					AVERAGES:				64	16	80				
47	Dowagiac			" G Co	1890										
					1900										
					1910	*		C	15		15				
					1920	*		C	15		15				
					1930	*		C	33		33	(0.6)		30	
					1940	0									
					1950	-									
					AVERAGES:				21		21			30	
48	Grand Ledge			" GL Co	1890										
					1900										
					1910	*		C	12		12				
					1920	*		C	6		6				
					1930	0									
					1940	-									
					1950	-									
					AVERAGES:				9		9				

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MICHIGAN

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
49	Hancock	Houghton County G&Coke Co1890													
		1900													
		1910	*	C	40			40							
		1920	*	C	51			51							
		1930	*	C	45			45		(0)	43				
		1940	0												
		1950	0												
		AVERAGES:			45			45			43				
50	Hastings	Thornapple G&E Co													
		1890													
		1900													
		1910	*	C	10			10							
		1920	*	C	15			15			1				
		1930	*	C,W	30	1		31		2	31				
		1940	0												
		1950	0												
AVERAGES:			18	1		19		2	16						
51	Holland	" City G Co													
		1890													
		1900													
		1910	*	C	20			20							
		1920	*	C	50			50		3	57				
		1930	*	C,W	89	44		133							
		1940	0												
		1950	-												
AVERAGES:			53	44		68		3	57						
52	Iron Mt	" L&F Co													
		1890													
		1900													
		1910	*	W		8		8	Low						
		1920	0												
		1930	*	W		19		19							
		1940	*	W		20		20							
		1950	*	W		14		14			1				
AVERAGES:				15		15			1						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
53	Iron Wood	" G Co	1890													
			1900													
			1910	*	W				?							Under construction
			1920	0												
			1930	*	W				40	40						
			1940	*	W				41	41						
			1950	N												
			AVERAGES:						41	41						
54	Laurium	Calumet G Co	1890													
			1900													
			1910	*	W				34	34	Lowe					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:						34	34						
55	Mt Pleasant	" L&F Co	1890													
			1900													
			1910	*	C				10	10						
			1920	*	C, W	27	1			28	Tenney	(0)	(0)	(2)		
			1930	*	C, W	51	355			406	"	(1)	48			
			1940	N												
			1950	N												
			AVERAGES:			29	178			148				48		
56	Petosky	" Bayshore G Co	1890													
			1900													
			1910	*	C				18	18						
			1920	*	C				19	19						
			1930	*	C, W	35	5			40		2	42			
			1940	N												
			1950	N												
			AVERAGES:			24	5			26		2	42			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES -- ALL PLANTS (1890-1950)

STATE:

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
57	Saulte Ste Marie	" G&E Co	1890													
			1900													
			1910	*	C	18				18						
			1920	*	C	33				33		(1)	(-)			
			1930	*	C	54				54		(1)		44		
			1940	*	C	44				44		(-)		46		
			1950	N												
			AVERAGES:			37				37					45	
58	South Haven	" G Co	1890													
			1900													
			1910	*	C	15				15						
			1920	*	C	19				19		(-)	(-)			
			1930	*	C	33				33		(-)		34		
			1940	*	C	27				27		2		30		
			1950	N												
			AVERAGES:			24				24		2		32		
59	Three Rivers	" G Co	1890													
			1900													
			1910	*	C	8				8						
			1920	*	C	18				18						
			1930	*	C	36				36		(0.4)		40		
			1940	*	C,W	131	164			295		7		149		
			1950	*	C,W	161	230			391		8		304		
			AVERAGES:			71	197			150		8				
60	Traverse City	" G Co	1890													
			1900													
			1910	*	C	20				20						
			1920	*	C	30				30		(1)	(-)			
			1930	*	C	54				54		3		56		
			1940	*	C	48				48		3		61		
			1950	C												
			AVERAGES:			38				38		3				

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
61 Alma	Gratiot County G Co		1890													
			1900													
			1910													
			1920	*	C,W	29	20			49	Tenney					
			1930	*	C	47				47		(0.2)		52		
			1940	0												
			1950	0												
			AVERAGES:			38	20			48				52		
62 Calumet	" G&Coke Co		1890													
			1900													
			1910													
			1920	*	C	27				27		(1)				
			1930	*	W		39			39	Lowe			26		
			1940	*	W		28			28	"					
			1950	0												
			AVERAGES:			27	34			31				26		
63 Muskegon Hts	" G Co		1890													
			1900													
			1910													
			1920	*	W		18			18	Tenney			5		
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				18			18				5		
64 Oshtego	Allegan County G Co		1890													
			1900													
			1910													
			1920	*	C	44				44		(2)	(12)			
			1930	*	C	56				56		(-)		53		
			1940	*	C	37				37		2		42		
			1950	0												
			AVERAGES:			46				46		2		48		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MICHIGAN

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
65	Plymouth	"	Northville G Co	1890											
				1900											
				1910											
				1920	*	C	17			17					
				1930	*	C, W	92	35		127	(2)	96			
				1940	0										
				1950	0										
				AVERAGES:			55	35		72		96			
66	Flint	Consumer's P Co	1890												
			1900												
			1910												
			1920												
			1930	*	C, W	1,813	247		2,060	(30)	(300)				
			1940	*	CW, Coke		195	1,850	2,045	(-)	1,678		3,600 lbs ammonium sulfate		
			1950	N											
			AVERAGES:			1,813	221	1,850	2,053		1,678				
67	Isipeming	Michigan G&E Co	1890												
			1900												
			1910												
			1920												
			1930	*	C	31			31	(0.1)	34				
			1940	0											
			1950	0											
			AVERAGES:			31			31		34				
68	Kalamazoo	Consumer's P Co	1890												
			1900												
			1910												
			1920												
			1930	*	C, W	519	60		579	29	562	223			
			1940	*	W, Coke		83	567	650	(0.6)	637	213			
			1950	N											
			AVERAGES:			519	72	567	615	29	600	218			

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
69	Zilwaukee														
					1890										
					1900										
					1910										
					1920										
					1930	*		C, W	801	206		1,007		46	384
					1940	0									
					1950	0									
					AVERAGES:				801	206		1,007		46	384

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MINNESOTA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Duluth	" G&Water Co	1890	*	W		30			30	F & Meeze					
			1900	*	W		35			35						
			1910	P												
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:				33			33						
2	Faribault	" GL Co	1890	*	O			(7)			Lowe					
			1900	*	O			6		6						
			1910	*	W		13			13						
			1920	*	W		47			47		(2)		(-)		
			1930	*	C	83				83		(1)		122		
			1940	N												
			1950	N												
			AVERAGES:			83	30	6		37				122		
3	Fergus Falls	" B&E Co	1890	*	W		2			2	Lowe					
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				2			2						
4	Mankato	" B&E Co	1890	*	C	(10)										
			1900	*	C	10				10						
			1910	*	C	50				50						
			1920	*	C	63				63						
			1930	*	C	88				88		(1)		95		
			1940	O												
			1950	O												
			AVERAGES:			53				53				95		

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Minneapolis	" GL Co	1890	*	C, W	(230)					Low (S)					
			1900	*	C, W	?					"					
			1910	*	C, W	?					"					
			1920	*	C, W	548	2			550	"		(210)		(44)	
			1930	*	W		4,507			4,507	"		3,072			
			1940	*	W		1,553			1,553	"		1,020			
			1950	N												
			AVERAGES:			548	2,021			2,203			2,046			
6	Red Wing	" G&E Co	1890	*	O			(8)								Naphtha feed
			1900	*	O			6		6						
			1910	*	C, W	13	27			40	Low					
			1920	*	C	35				35	"			(9)		
			1930	*	C	46				46	"		2	50		
			1940	*	C	39				39	"		2	48		
			1950	*	C	69				69	"		4	91		
			AVERAGES:			40	27	6		39			3	63		
7	Rochester	" GL Co	1890	*	?											
			1900	*	C	6				6						
			1910	*	C	9				9						
			1920	*	C	59				59						
			1930	*	C, W	83	36			119		4	91			
			1940	N												
			1950	N												
8	St Cloud	" G&E Co	1890	*	O			(10)			Patton					
			1900	*	O			?			"					
			1910	*	C	12				12						
			1920	*	C, W	16	16			32		(3)				
			1930	*	C, W	38	40			86		(1)	37			
			1940	*	C, W	41	40			81		(1)	53			
			1950	N												
			AVERAGES:			27	35			53			45			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MINNESOTA

[illegible]

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Albert Lea	" L&P Co	1890													
			1900													
			1910	*	W		9			9	Low					
			1920	*	W		27			27	"					
			1930	*	CW		47			47	"					
			1940	N												
			1950	N												
			AVERAGES:				28			28						
14	Austin	" B Co	1890													
			1900													
			1910	*	W		9			9	Low (S)					
			1920	*	W		29			29	"					
			1930	*	CW		71			71	"					
			1940	N												
			1950	N												
			AVERAGES:				36			36						
15	Duluth	Zenith Furnace Co	1890													
			1900													
			1910	*	Coke				306	306	Otto-Hoff.					
			1920	*	Coke				519	519						
			1930	P												
			1940	P												
			1950	O												
			AVERAGES:						413	413						
16	Excelsior	" B Co	1890													
			1900													
			1910	*	O				4	4						
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:						4	4						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MINNESOTA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION	
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia		Other
17	Renville	City of " B Plant	1890												
			1900												
			1910	*	W		3		3						Lowe
			1920	0											
			1930	*	W		(1)								
			1940	0											
			1950	0											
			AVERAGES:				3		3						
18	Slayton	Village of "	1890												
			1900												
			1910	*	?		3		3						Lowe
			1920	0											
			1930	0			(1)								
			1940	-											
			1950	-											
			AVERAGES:				3		3						
19	West Minneapolis	" B Works	1890												
			1900												
			1910	*	W		2		2						Tenney
			1920	C											Cons. w/ Hopkins
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				2		2						
20	Bemidji	" B Co	1890												
			1900												
			1910												
			1920	*	W		(8)								Lowe
			1930	*	CW		11		11						"
			1940	N											
			1950	N											
			AVERAGES:				11		11						

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. Ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21	Brainerd	"	B&E Co	1890											
				1900											
				1910											
				1920	*	W		19		19	Tenney				
				1930	*	W		20		20	"				
				1940	N										
				1950	N										
				AVERAGES:				20		20					
22	Crookston	"	G Co	1890											
				1900											
				1910											
				1920	*	W		20		20	Lowe		9		
				1930	*	W		18		18	"				
				1940	N										
				1950	N										
				AVERAGES:				19		19			9		
23	Hibbing		W&L Dept, "	1890											
				1900											
				1910											
				1920	*	C		18		18					
				1930	*	CW		74		74					
				1940	*	CW		71		71					
				1950	N										
				AVERAGES:				18	73		54				
24	Hopkins		West Minneapolis G Wks	1890											
				1900											
				1910											
				1920	*	W		4		4	Tenney				
				1930	X										
				1940	-										
				1950	-										
				AVERAGES:				4		4					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MINNESOTA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft. /YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
25	Jasper	Village of "	1890												
			1900												
			1910												
			1920	*	W		12		12						
			1930	*	W		(1)								
			1940	*	W		(1)								
			1950	N											
			AVERAGES:				12		12						
26	New Ulm	" 6 Co	1890												
			1900												
			1910												
			1920	*	W		15		15	Tenney					
			1930	*	CW		28		28	"		4			
			1940	N											
			1950	N											
			AVERAGES:				22		22			4			
27	Owatonna	Public Serv Oper Co	1890												
			1900												
			1910												
			1920	*	W		18		18						
			1930	*	CW		48		48			7			
			1940	O											
			1950	O											
			AVERAGES:				33		33			7			
28	Virginia	Water&L Dept, "	1890												
			1900												
			1910												
			1920	*	W		18		18						
			1930	*	W		55		55						
			1940	*	CW		55		55						
			1950	*	CW		53		53						
			AVERAGES:				45		45						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
29	Fairmount	Central States E Co	1890													
			1900													
			1910													
			1920													
			1930	*	CW		25		25				7			
			1940	N												
			1950	N												
	AVERAGES:				25		25				7					
30	Willmar	" G Co	1890													
			1900													
			1910													
			1920													
			1930	*	CW		11		11	Tenney						
			1940	*	CW		31		31	"						
			1950	0												
	AVERAGES:				21		21									

TABLE D-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MISSISSIPPI

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
1	Columbus	GLCoke Co	1890	*	C	5				5					
			1900	*	C	1				1					
			1910	*	C	?									
			1920	*	C	13				13					
			1930	*	C	17				17	1	12			
			1940	0											
			1950	0											
			AVERAGES:			9				9	1	12			
2	Greenville	" GL Co	1890	*	C	?									
			1900	0											
			1910	*	C	11				11					
			1920	*	C	18				18	(1)	(1)			
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:			15				15					
3	Holly Springs	" GL Co	1890	*	?										
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:												
4	Jackson	" GL Co	1890	*	C	(10)									
			1900	*	C	5				5					
			1910	*	C	29				29					
			1920	*	C	40				40	(-)	(-)			
			1930	*	W		123			123					
			1940	N											
			1950	N											
			AVERAGES:			25	123			49					

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Meridan	" G Co	1890	*	C	(15)										
			1900	*	C	9				9						
			1910	*	C	30				30						
			1920	*	C	63				63		(2)	(-)	10		
			1930	*	C	68				68		3	56			
			1940	N												
			1950	N												
			AVERAGES:			43				43		3	56	10		
6	Natchez	" GL Co	1890	*	C	6				6						
			1900	*	C	?										
			1910	*	C	8				8						
			1920	*	C	8				8						
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:			7				7						
7	Vicksburg	" GL Co	1890	*	W		12			12	Low					
			1900	*	W		19			19	"					
			1910	*	W		40			40	"					
			1920	*	W		41			41	"					
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:				28			28						
8	Biloxi	Gulf Coast G Co	1890													
			1900													
			1910	*	C, W	30				30	Low					
			1920	*	C, W	65				65	"					
			1930	*	C, W	82	74			156	"	4	81			
			1940	N												
			1950	N												
			AVERAGES:			59	74			84		4	81			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MISSISSIPPI

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Hattiesburg	" Traction Co	1890													
			1900													
			1910	*	C	12				12						
			1920	*	C	23				23		(1)		(1)		
			1930	*	C	42				42		(1)		35		
			1940	N												
			1950	N												
			AVERAGES:			26				26				35		
10	Laurel	Mississippi G Co	1890													
			1900													
			1910													
			1920													
			1930	*	CW		14			14						
			1940	0												
			1950	0												
			AVERAGES:				14			14						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Boonville	" GL Co	1890	*	C	(5)										
			1900	*	C	7				7						
			1910	*	C	6				6						
			1920	*	C	10				10						
			1930	*	C	21				21		1				
			1940	N												
			1950	N												
			AVERAGES:			11				11		1				
2	Carthage	" G Co	1890	*	C	4				4						
			1900	*	C	10				10						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			7				7						
3	Chillicothe	" Water G&EL Co	1890	*	W		(9)				J					
			1900	*	0		4			4	Patton					
			1910	*	W		5			5						
			1920	*	W		9			9						
			1930	*	W		20			20						
			1940	0												
			1950	0												
			AVERAGES:				10			10						
4	Clinton	" G Coal&Coke Co	1890	*	C	4				4						
			1900	*	C	5				5						
			1910	*	C	5				5						
			1920	*	C	5				5		(0.3)	7			
			1930	*	C	10				10		(0.2)	7			
			1940	0												
			1950	0												
			AVERAGES:			6				6			7			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MISSOURI

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Jefferson City	" LH&P Co	1890	*	W			(8)			Lowe (S)					
			1900	*	W			7		7						
			1910	*	W			26		26						
			1920	*	W			50		50						
			1930	*	CW			107		107					31	
			1940	N												
			1950	N												
			AVERAGES:					48		48					31	
10	Joplin	" G&Coke Co	1890	*	C			4		4						
			1900	*	C			40		40						
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					22		22						
11	Kansas City	L&Coke Co	1890	*	W			225		225	Lowe					
			1900	*	W			720		720						
			1910	N												
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:					473		473						
12	Lexington	" GL Co	1890	*	C			7		7						
			1900	*	C			4		4						
			1910	*	C			8		8						
			1920	*	C			10		10						
			1930	*	CW			15		15						
			1940	N												
			1950	N												
			AVERAGES:					9		9						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Louisiana	Carbon L Co	1890	*	C	?										
			1900	*	C	2				2						
			1910	*	C	8				8						
			1920	*	C	11				11						
			1930	*	CW	9				9						
			1940	0												
			1950	0												
			AVERAGES:			8				8						
14	Marshall	" GL Co	1890	*	C	50				50						
			1900	*	C	4				4						
			1910	*	C	8				8						
			1920	*	C	13				13						
			1930	*	CW	20				20						
			1940	0												
			1950	0												
			AVERAGES:			19				19						
15	Moberly	" GL Co	1890	*	C	(10)										
			1900	*	C	2				2						
			1910	*	C	6				6						
			1920	0												
			1930	*	C, W	26	36			62				32		
			1940	N												
			1950	N												
			AVERAGES:			11	36			23				32		
16	Nevada	" G&EL Co	1890	*	C	14				14						
			1900	*	C	9				9						
			1910	*	C	10				10						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			11				11						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MISSOURI

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Dil	Loke	Total	Coke	Tar	Ammonia	Other	
17	Rich Hill			"	LH&P Co	1890	*	C		4				
						1900	*	C		4				
						1910	0							
						1920	0							
						1930	-							
						1940	-							
						1950	-							
						AVERAGES:				4				
18	Sedalia				"	GL Co	1890	*	C		12			
							1900	*	C		12			
							1910	*	C		20			
							1920	*	C		53	(1)	(-)	
							1930	*	C		84	(1)	56	
							1940	N						
							1950	N						
							AVERAGES:				38		56	
19	Springfield				"	GL Co	1890	*	C		15			
							1900	*	C		16			
							1910	*	C,W		107			
							1920	*	C,W		120			
							1930	*	CW		195			
							1940	N						
							1950	N						
							AVERAGES:				91		70	
20	St Charles				"	L&Coal Co	1890	*	C		5			
							1900	*	C		5			
							1910	*	C		22			
							1920	0						
							1930	*	CW		(9)			
							1940	*	CW		33			
							1950	N						
							AVERAGES:				16			

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21	St Joseph	BAMfg Co	1890	*	C	70				70						
			1900	*	C	160				160						
			1910	0												
			1920	*	C	586				586						
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:			272				272						
22	St Louis	Carondele GL Co	1890	*	C	20				20						
			1900	0	C	7				7						
			1910	0												
			1920	*	C, W, Coke	3	2		2	7						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			10	2		2	11						
23	St Louis	Laclede GL Co	1890	*	C	1,000				1,000						
			1900	*	C	1,200				1,200						
			1910	*	C, W	1,200	2,800			4,000						
			1920	0												
			1930	*	C, CW, Coke	1,692	2,323		2,022	6,037		337	4,355	2,789	821,170	lbs sulfate
			1940	*	Coke				1,969	1,969						
			1950	*	Coke				1,338	1,338						
			AVERAGES:			1,273	2,562		1,776	2,591		337	4,355	2,789		
24	St Louis	GF&P Co	1890	*	W	60				60						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			60				60						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MISSOURI

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
25	St Louis	GL Co	1890	*	C	(450)										
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
26	Trenton	" G&L Co	1890	*	O			(6)			Patton					
			1900	0												
			1910	*	W	6			6		Lowe (Moses)					
			1920	*	W	8			8							
			1930	*	W	22			22							
			1940	0												
			1950	0												
			AVERAGES:			12			12							
27	Excelsior Springs	" G&L Co	1890													
			1900	*	W		4		4		Hennessy					
			1910	0												
			1920	*	W		6		6							
			1930	*	W		30		30							
			1940	N												
			1950	N												
			AVERAGES:				13		13							
28	Macon	" G&L Co	1890													
			1900	*	O			5	5		Patton					
			1910	*	O			5	5		"					
			1920	*	W		6		6		"					
			1930	*	CW	(4)										
			1940	*	CW		4		4							
			1950	0												
			AVERAGES:				5	5	5							

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
29	Brookfield	" GE&H Co	1890													
			1900													
			1910	*	W		13			13	Lowe					
			1920	*	W		18			18	"					
			1930	*	W		29			29	"					
			1940	*	CW		14			14	"					
			1950	0												
			AVERAGES:				19			19						
30	Cape Girardeau	" Water Works ELG Co	1890													
			1900													
			1910	*	C	(B)										
			1920	*	C	20				20		1	30			
			1930	*	W		35			35				12		
			1940	*	W		42			42						
			1950	0												
			AVERAGES:			20	39			32		1	21			
31	Excelsior Springs	" LPH&W Co	1890													
			1900													
			1910	*	W		4			4						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				4			4						
32	Kirksville	" GH&E Co	1890													
			1900													
			1910	*	W		9			9	Lowe					
			1920	*	W		21			21	"					
			1930	*	CW		27			27	"			12		
			1940	*	CW		28			28	"					
			1950	0												
			AVERAGES:				21			21				12		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MISSOURI

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
33	Mexico	" ELH&P Co	1890													
			1900													
			1910	*	W			2		2	Lowe					
			1920	*	W			8		8	"					
			1930	*	W			21		21	"					
			1940	0												
			1950	0												
			AVERAGES:					10		10						
34	Webster Groves	St Louis County G Co	1890													
			1900													
			1910													
			1920	*	W			383		383	Lowe					
			1930	*	W			1,756		1,756	"		678			77,184 gallons light oil
			1940	*	W			659		659	"					
			1950	0												
			AVERAGES:					933		933			678			
35	Warrensburg	Miss Public Serv Corp	1890													
			1900													
			1910													
			1920													
			1930													
			1940	*	W			27		27						
			1950	N												
			AVERAGES:					27		27						

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: MONTANA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Missoula	" G Co	1890													
			1900													
			1910	*	C	(20)										
			1920	0												
			1930	*	C	24				24						
			1940	N												
			1950	N												
			AVERAGES:			24				24						
6	Billings	" G Co	1890													
			1900													
			1910													
			1920	*	W		60			60	Lowe		(7)			
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				60			60						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Beatrice	" B Co	1890	*	O			(16)			Patton					
			1900	*	O			6		6	"					
			1910	*	C,W	8	24			32	Low					
			1920	*	C,W	48				48	"					
			1930	*	CW		42			42	"					
			1940	N												
			1950	N												
			AVERAGES:			28	33	6		32						
2	Fremont	" G&EL Co	1890	*	O			(9)								Naphtha feedstock
			1900	*	O			(10)								" "
			1910	*	W		7			7	Low					
			1920	*	W		29			29	"					
			1930	*	CW		52			52	"				52	
			1940	N												
			1950	N												
			AVERAGES:				29			29					52	
3	Grand Island	" G Co	1890	*	O			10		10	Patton					
			1900	*	W		9			9	H-L					
			1910	*	W		14			14	"					
			1920	*	W		32			32	"					
			1930	*	CW		90			90	"				15	
			1940	N												
			1950	N												
			AVERAGES:				36	10		31					15	
4	Hastings	" GL Co	1890	*	C	6				6						
			1900	*	C	6				6						
			1910	*	C	16				16						
			1920	*	C	33				33						
			1930	*	W		78			78	Low				13	
			1940	N												
			1950	N												
			AVERAGES:			15	78			28					13	

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEBRASKA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Dil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Kearney	" G Co	1890	*	O			(10)			Patton					
			1900	*	O			3		3	"					
			1910	*	W		6			6	Lowe (Tenney)					
			1920	*	W		25			25	"					
			1930	*	W		40			40	"					
			1940	O												
			1950	O												
			AVERAGES:				24	3		19						
6	Lincoln	" G Co	1890	*	W		25			25	Lowe (S)					
			1900	*	W		42			42	"					
			1910	*	W		204			204	"					
			1920	*	W		295			295	"					
			1930	*	CW		578			578	"					
			1940	N												
			1950	N												
			AVERAGES:				229			229						
7	Nebraska City	" GL Co	1890	*	C	5				5						
			1900	*	C	6				6						
			1910	*	C	(10)										
			1920	*	C	9				9						
			1930	*	CW		25			25						
			1940	O												
			1950	O												
			AVERAGES:				7	25		11						
8	Omaha	" G Mfg Co	1890	*	W		150			150	Lowe					
			1900	*	W		260			260	"					
			1910	*	W		674			674	"					
			1920	*	W		1,220			1,220	"	(1)	(-)			
			1930	*	W		1,978			1,978	"			920		
			1940	*	CW		2,970			2,970	"	(-)	150			
			1950	O												
			AVERAGES:				1,209			1,209				525		

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT. /YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Plattsmouth	" G&EL Co	1890	*	O				4	4	Patton					
			1900	*	O				1	1	"					
			1910	*	W		5			5	Lowe					
			1920	*	W		?				"					
			1930	*	W		10			10	"					
			1940	N												
			1950	N												
			AVERAGES:				8	3		5						
10	Albion	City of " G Plant	1890													
			1900													
			1910	*	W		(3)				Tenney					
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:													
11	Blair	" G Co	1890													
			1900													
			1910	*	W		3			3	Tenney					
			1920	*	W		8			8	"					
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:				6			6						
12	Central City	" G Co	1890													
			1900													
			1910	*	W		5			5	Tenney			1		
			1920	*	W		4			4	"					
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:				5			5						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEBRASKA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Fairbury	" G Co	1890													
			1900													
			1910	*	W		2			2	Tenney					
			1920	*	W		18			18	"			10		
			1930	*	W		35			35						
			1940	O												
			1950	O												
			AVERAGES:				18			18				10		
14	Norfolk	" L&F Co	1890													
			1900													
			1910	*	W		14			14	Tenney, S					
			1920	*	W		19			19	"					
			1930	*	W		48			48	"					
			1940	O							"					
			1950	O												
			AVERAGES:				27			27						
15	Ord	" L&F Co	1890													
			1900													
			1910	*	W		(2)				Tenney					
			1920	*	W		3			3	"					
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:				3			3						
16	York	" G&E Co	1890													
			1900													
			1910	*	W		6			6						
			1920	*	W		15			15						
			1930	*	W		24			24						
			1940	N												
			1950	N												
			AVERAGES:				15			15						

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
17	Broken Bow	" B Co	1890											
			1900											
			1910											
			1920	*	W			2	2					
			1930	0										
			1940	0										
			1950	-										
			AVERAGES:				2		2					
18	Columbus	" G Co	1890											
			1900											
			1910											
			1920	*	W			11	11					
			1930	*	CW			20	20					
			1940	N										
			1950	N										
			AVERAGES:				16		16					
19	McCook	Citizen's G Co	1890											
			1900											
			1910											
			1920	*	W			1	1	Tenney				
			1930	*	W			(5)		"				
			1940	N										
			1950	N										
			AVERAGES:				1		1					
20	North Platte	" L&P Co	1890											
			1900											
			1910											
			1920	*	W			20	20	Lone				
			1930	*	CW			60	60	"			8	
			1940	N										
			1950	N										
			AVERAGES:				40		40				8	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1893-1953)

STATE: NEBRASKA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21	Central City	1898													
	" G Dept	1900													
		1910													
		1920	#	W		(3)				Tenney, S					
		1930	N												
		1940	N												
		1950	N												
		AVERAGES:													
22	Scott's Bluff	1898													
	Citizen's G Co	1900													
		1910													
		1920	#	CW		27			27			5			
		1930	N												
		1940	N												
		1950	N												
		AVERAGES:				27			27			5			

[illegible]

TABLE D-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1892-1950)

STATE: NEVADA

[illegible]

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Claremont		"	B Co	1890	*	W		2	2					
					1900	*	W		4	4	H-L				
					1910	*	W		10	10	"				
					1920	*	W		38	38	"				
					1930	*	W		10	10	"				
					1940	*	W		33	33	"				
					1950	N									
					AVERAGES:				16	16					
2	Concord		"	GL Co	1890	*	W		27	27	LOWE				
					1900	*	W		32	32	"				
					1910	*	W		56	56	"				
					1920	*	W		109	109	"				
					1930	*	CW		192	192	"			30	
					1940	*	CW		190	190	"				
					1950	*	CW		242	242	"				
					AVERAGES:				121	121				30	
3	Dover		"	GL Co	1890	*	W		13	13					
					1900	*	W		?						
					1910	*	W		21	21					
					1920	*	W		31	31					
					1930	*	CW		63	63					
					1940	P									
					1950	O									
					AVERAGES:				32	32					
4	Exeter		"	GL Co	1890	*	?								
					1900	O									
					1910	*	C		10	10					
					1920	*	C		12	12					
					1930	*	C		(5)						
					1940	P									
					1950	P									
					AVERAGES:				11	11					

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW HAMPSHIRE

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Farmington	" GL Co	1890	*	0			1		1						Naptha feedstock
			1900	*	0			1		1						" "
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					1		1						
6	Somersworth	Great Falls GL Co	1890	*	W		6			6	Lowe (S)					
			1900	*	0			11		11	Kencall					
			1910	*	0			15		15	"					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				6	13		11						
7	Hanover	" GL Co	1890	*	0			1		1						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					1		1						
8	Keene	" GL Co	1890	*	W		5			5	Lowe					
			1900	*	W		12			12	"					
			1910	*	W		24			24	"					
			1920	*	W		45			45	"					
			1930	*	W		71			71	"					
			1940	0												Cons. w/Manchester Public Serv
			1950	-												
			AVERAGES:				31			31						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Laconia	" GL Co	1890	*	?											
			1900	*	O			5		5	Kendall					
			1910	*	O			25		25	"					
			1920	*	W		35			35	Lowe					
			1930	*	OW		44			44	"					
			1940	O												
			1950	O												
			AVERAGES:				40	15		27						
10	Manchesta	People's GL Co	1890	*	W		(45)				H-L					
			1900	*	W		95			95	"					
			1910	*	W		173			173	LOWE					
			1920	*	W		352			352	"					
			1930	*	C, W		419	29		448	"	(5)	450		160	
			1940	*	W		408			408	"					
			1950	*	W		595			595	"					
			AVERAGES:				340	29		345			450		160	
11	Nashua	" Light, H&P Co	1890	*	C		27			27						
			1900	*	C		37			37						
			1910	*	C, W		52			52	Lowe					
			1920	*	C, W		60	58		118	"	(2)	(-)	(-)		
			1930	*	C, W		213	561		774	"	12	227			
			1940	C												Cons. w/Manchester Pub. Serv.
			1950	-												
			AVERAGES:				78	310		202		12				
12	Portsmouth	" GL Co	1890	*	C		10			10						
			1900	*	C		11			11						
			1910	*	C		18			18						
			1920	*	C		64			64		(2)	(-)			
			1930	*	C		79			79						
			1940	*	C		79			79						
			1950	*	C		95			95						
			AVERAGES:				51			51						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1692-1950)

STATE: NEW HAMPSHIRE

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Rollinsford	Salmon Falls Mfg Co	1890	*	0				(1.7)							
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
14	Franklin Falls	" L&P Co	1890													
			1900	*	0			1		1						Naphtha feedstock
			1910	*	0			1		1						" "
			1920	*	0		5			5						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				5		1		2					
15	Pittsfield	" G Co	1890													
			1900	*	0			17		17						Naphtha feedstock
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:						17		17					
16	Rochester	" GL Co	1890													
			1900													
			1910	*	0		5			5						
			1920	*	W			43		43						Lowe
			1930	*	CW			21		21						"
			1940	*	CW			25		25						"
			1950	N												
			AVERAGES:				5	30		24						

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Manchester	Public Serv of NH		1890											
				1900											
				1910											
				1920											
				1930											
		*	C, CW	1940	10	249		259		1	9			Plants in Keene, Laconia/Wasnea	
		*	CW	1950		472		472						(cont.) and Dover.	
		AVERAGES:			10	361		366		1	9				

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW JERSEY

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION	
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other		
1	Arlington	" GLCo	1890	*	W			(1)			S-G						
			1900	0													
			1910	0													
			1920	-													
			1930	-													
			1940	-													
			1950	-													
			AVERAGES:														
2	Asbury Park	Gas Co	1890	*	W			9		9	Hodges						
			1900	C												Cons. w/Long Branch	
			1910	-													
			1920	-													
			1930	-													
			1940	-													
			1950	-													
			AVERAGES:														
3	Atlantic City	G & W Co	1890	*	W			30		30	Lowe (G)						
			1900	*				85		85							
			1910	*				475		475							
			1920	*				810		810							
			1930	*				1,400		1,400							
			1940	*				1,092		1,092							
			1950	*				1,822		1,822						1,748	
			AVERAGES:														
4	Bayonne	Bayonne & Greenville G L	1890	*	W			3		3	Lowe						
			1900	C													Cons. w/Hudson Cty of Hoboken
			1910	-													
			1920	-													
			1930	-													
			1940	-													
			1950	-													
			AVERAGES:														
						3		3									

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1892-1950)

STATE: NEW JERSEY

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Bridgeton	" G L Co	1890	*	C	12				12						
			1900	*	C	8				8						
			1910	*	C	45				45						
			1920	*	C	99				99		(1)	(-)			
			1930	*	C	123				123		(2)	134			
			1940	*	C	85				85		(1)	60			
			1950	*	C	84				84		3	54			
			AVERAGES:			65				65		3	83			
10	Cape May	Cape Island Gas Co	1890	*	W	5				5	Lowe					
			1900	*	W	6				6	"					
			1910	*	W	20				20	"					
			1920	*	W	27				27	"					
			1930	C												
			1940	-												
			1950	-												
			AVERAGES:			15				15						
11	Camden	" G L Co	1890	*	C, W	?										
			1900	*	C, W	90				90	Lowe					
			1910	*	C, W	990				990	"					
			1920	*	Coke				2,100	2,100	Otto-Hoff.					
			1930	*	Coke				3,630	3,630	"					
			1940	*	Coke				3,765	3,765	"					
			1950	*	Coke				(7000)		"					
			AVERAGES:			540			3,165	2,115						
12	Elizabeth	" G L Co	1890	*	C	(33)										
			1900	*	W		100			100	Lowe					
			1910	*	W		230			230	"					
			1920	*	W		1,200			1,200	"			75		
			1930	*	W		2,536			2,536	"			1,232		
			1940	*	W		2,522			2,522	"			1,230		
			1950	*	W		4,589			4,589	"			2,988		
			AVERAGES:				1,863			1,863						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13 Elizabeth	Metropolitan G L Co	1890	*	W			(40)				Meeze					
		1900	0													
		1910	0													
		1920	-													
		1930	-													
		1940	-													
		1950	-													
		AVERAGES:														
14 Englewood	Bergen Co. Gas L Co	1890	*	C			3			3						
		1900	X													Cons. w/Hackensack
		1910	-													
		1920	-													
		1930	-													
		1940	-													
		1950	-													
		AVERAGES:					3			3						
15 Flemington	" G L Co	1890	*	O				(2)								Naphtha feedstock
		1900	*	O				1		1						" "
		1910	*	O				1		1						
		1920	*	W			36			36	Lowe					
		1930	*	CW			32			32	"					
		1940	0													
		1950	0													
		AVERAGES:					34	1		18						
16 Freehold	" G L Co	1890	*	C			2			2						
		1900	*	C			6			6						
		1910	*	C			11			11						
		1920	0													
		1930	0													
		1940	-													
		1950	-													
		AVERAGES:					6			6						

TABLE E-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1830-1952)

STATE: NEW JERSEY

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
25	Matawan/Key Port			" GL Co	1890	*	C	2			2				
					1900	*	C	4			4				
					1910	0									
					1920	0									
					1930	-									
					1940	-									
					1950	-									
					AVERAGES:			3			3				
26	Millville			" GL Co	1890	*	C	5			5				
					1900	*	C	6			6				
					1910	*	C	45			45				
					1920	*	C	100			100	(-)	(-)	(-)	
					1930	*	C, W	58	205	263	3	52			
					1940	*	CW		209	209		94			
					1950	*	CW		353	353		224			
					AVERAGES:			43	256	140	3	123			
27	Mooristown			" GL Co	1890	*	C	12			12				
					1900	*	C	24			24				
					1910	*	C	(18)							
					1920	0									
					1930	0									
					1940	-									
					1950	-									
					AVERAGES:			18			18				
28	Mount Holly			GL Co	1890	*	C	2			2				
					1900	C									
					1910	-									
					1920	-									
					1930	-									
					1940	-									
					1950	-									
					AVERAGES:			2			2				

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
29	Harrison	East Newark GL Co	1890	*	C	(16)										
			1900	C												Cons. w/Newark GL Co
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
30	Newark	Citizen's GL Co	1890	*	C	180				180						
			1900	D												Cons. w/Newark GL Co
			1910	D												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			180				180						
31	Newark	" GL Co	1890	*	C	(180)										
			1900	*	C	1,000				1,000						Became "Essex & Hudson Gas Co"
			1910	*	C,W	2,900				2,900	Lowe					
			1920	*	C,W	5,300				5,300	"					
			1930	*	W	8,488				8,488	"					
			1940	*	W	8,976				8,976	"					
			1950	*	W	14,034				14,034	"					Includes some LP gas
			AVERAGES:			6,783				6,783						
32	New Brunswick	GL Co of City of "	1890	*	W			?			Lowe					
			1900	*	W			14		14	"					
			1910	*	W			230		230	"					
			1920	*	W			850		850	"					
			1930	P												
			1940	P												
			1950	-												
			AVERAGES:					365		365						

TABLE 5-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1833-1953)

STATE: NEW JERSEY

[illegible]

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)					SABIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
37	Perth Amboy	" GL Co	1890	*	C	4				4						
			1900	*	C	11				11						
			1910	*	C	61				61						
			1920	*	C	70				70		(2)	(-)			
			1930	P												
			1940	P												
			1950	-												
			AVERAGES:			37				37						
38	Phillipsburg	" GL Co	1890	*	W			4		4						
			1900	*	W			5		5						
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					5		5						
39	Plainfield	" GL Co	1890	*	W			(12)			Lowe					
			1900	*	W			32		32	"					
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					32		32						
40	Princeton	" GL Co	1890	*	C	8				8						
			1900	*	C	10				10						
			1910	*	C	16				16						
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:			11				11						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
45	Somerville	" GL Co	1890	*	C	4				4						
			1900	*	C	8				8						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			6				6						
46	Trenton	" GL Co	1890	*	C	55				55						
			1900	*	C	120				120						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			88				88						
47	Vineland	" G Works	1890	*	C	3				3						
			1900	*	C	8				8						
			1910	P												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			6				6						
48	Woodbury	Consumer's G Co	1890	*	W		4			4	H-L					
			1900	*	W		10			10	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				7			7						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW JERSEY

[illegible]

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
53	Belmar	Coast Gas Co	1890													
			1900													
			1910	*	W		40			40	LOWE					
			1920	*	W		180			180	"					
			1930	C												Cons. w/Long Branch
			1940	-												
			1950	-												
			AVERAGES:				110			110						
54	Boonton	" G L & Improve. Co	1890													
			1900													
			1910	*	W		(5)									
			1920	*	W		12			12		(-)	4			
			1930	C												Cons. w/Boonton
			1940	-												
			1950	-												
			AVERAGES:				12			12			4			
55	Dranford	" G L Co	1890													
			1900													
			1910	P												
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:													
56	Dover	Rockaway & Port Oran.	1890													
			1900													
			1910	*	W		30			30	LOWE					
			1920	*	W		40			40	"					
			1930	*	CW		127			127	"		47			
			1940	*	CW		209			209	"		73			
			1950	*	CW		324			324	"		261			
			AVERAGES:				146			146			127			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1850-1950)

STATE: NEW JERSEY

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
57	Egg Harbor City	Enterprise G Co	1890												
			1900												
			1910	*	W		5			5					Lowe
			1920	*	W		9			9					"
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:				7			7					
58	Glassboro	Pitman, Glassboro & Clayton G Co	1890												
			1900												
			1910	*	W		20			20					Lowe
			1920	*	W		250			250					"
			1930	*	W		427			427				256	"
			1940	*	W		420			420				273	"
			1950	*	W		755			755				657	"
			AVERAGES:				374			374				395	
59	Hammonton	& Egg Harbor City	1890												
			1900												
			1910	*	W		6			6					L-J
			1920	*	W		11			11					"
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:				9			9					
60	Keyport	Standard Gas Co	1890												
			1900												
			1910	*	C		11			11					
			1920	0											
			1930	0											
			1940	-											
			1950	-											
			AVERAGES:				11			11					

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
61	Madford	" G L Co	1890													
			1900													
			1910	*	O			3		3	Phoenix					
			1920	*	O			6		6	"					
			1930	*	W		?				L-J					
			1940	*	W		(2)				"				46	
			1950	O												
			AVERAGES:					5		5					46	
62	Ocean City	City Gas L Co	1890													
			1900													
			1910	*	W		8			8	Lowe					
			1920	*	W		34			34	"					
			1930	*	CW		126			126	"				40	
			1940	*	CW		128			128	"					
			1950	O												
			AVERAGES:				74			74					40	
63	Faulsboro	Municipal G P	1890													
			1900													
			1910	*	W		5			5						
			1920	*	W		18			18						
			1930	*	W		(5)									
			1940	N												
			1950	N												
			AVERAGES:				12			12						
64	Penn's Grove	" G Co	1890													
			1900													
			1910	*	W		6			6	L-J					
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:				6			6						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW JERSEY

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total	Core	Tar	Ammonia	Other	
65 Pleasantville	" H L & P Co	1890												
		1900												
		1910	*	W		74			74	LOWE				
		1920	*	W		29			29	"				
		1930	0											
		1940	0											
		1950	-											
		AVERAGES:				52			52					
66 So. Amboy	Citizen's L & F Co	1890												
		1900												
		1910	*	C		9			9					
		1920	0											
		1930	0											
		1940	-											
		1950	-											
		AVERAGES:				9			9					
67 Swedesboro	" G L Co	1890												
		1900												
		1910	*	W		5			5	LOWE				
		1920	0											
		1930	0											
		1940	-											
		1950	-											
		AVERAGES:				5			5					
68 Tuckerton	" G Co	1890												
		1900												
		1910	*	W		4			4	LOWE				
		1920	P											
		1930	-											
		1940	-											
		1950	-											
		AVERAGES:				4			4					

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
69	Washington	" B Co			1890										
					1900										
					1910	*	W		5	5	Low				
					1920	*	W		6	6	"				
					1930		O								
					1940		O								
					1950		-								
					AVERAGES:				6	6					
70	Wildwood	" Anglesea & Holly Beach G Co			1890										
					1900										
					1910	*	W		20	20	Low				
					1920	*	W		40	40	"				
					1930	*	CW		114	114	"			36	
					1940	*	CW		182	182	"			274	
					1950	*	CW		350	350	"				
					AVERAGES:				141	141				155	
71	Williamstown	" G Co			1890										
					1900										
					1910		P								
					1920		O								
					1930		O								
					1940		-								
					1950		-								
					AVERAGES:										
72	Atlantic Highland	Standard Gas Co			1890										
					1900										
					1910										
					1920	*	W		119	119	Low				
					1930	*	CW		245	245	"			140	
					1940	*	CW		252	252	"			224	
					1950		N								
					AVERAGES:				205	205				182	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW JERSEY

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
73	Metuchen	* GL Co	1890												
			1900												
			1910												
			1920	P											
			1930	O											
			1940	O											
			1950	-											
			AVERAGES:												
74	Toms River	Ocean County Gas Co	1890												
			1900												
			1910												
			1920	*	W		26			26					
			1930	*	CH		62			62					
			1940	*	CH		72			72				25	
			1950	C											
			AVERAGES:				53			53				25	

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Albuquerque	" B Co	1890	*	C	7				7						
			1900	*	C	6				6						
			1910	*	C	2				2						
			1920	*	C	28				28						
			1930	*	C	88				88		(1)	71			
			1940	N												
			1950	N												
			AVERAGES:			26				26				71		
2	Las Vegas	" B&Coke Co	1890	*	C	7				7						
			1900	X												
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			7				7						
3	Sante Fe	" G Co	1890	*	C	5				5						
			1900	X												
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			5				5						
4	Roswell	" G Co	1890													
			1900													
			1910	*	0			7		7	Beal's					
			1920	*	0			12		12	"					
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:					10		10						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
1	Albany	East Albany G L Co	1890	*	?										
			1900	*	?	4				4					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			4				4					
2	Albany	Municipal Gas Co	1890	*	W		(100)				Lowe (S)				
			1900	*	W		32			32	"				
			1910	*	W		400			400	S, Williamson				
			1920	*	W		743			743	"		540		
			1930	*	CW		1,544			1,544	"				
			1940	*	CW, Coke		98		?	98	"		34		Mostly coke gas; plants in
			1950	*	CW, Coke		705		?	705	"		5,568		Schenectady, Hudson, Glenn Falls
			AVERAGES:				587			587			2,047		, Gloversville, & Canajoharie.
3	Albion	" G L Co	1890	*	C		2			2					
			1900	*	C		5			5					
			1910	*	C		6			6					
			1920	*	C		6			6					
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:				5			5					
4	Amsterdam	Chuctanunda G L Co	1890	*	C		16			16					
			1900	*	C		32			32					
			1910	*	C, W		63	18		81	Lowe				
			1920	*	C, W		65	53		118	"	3	100	3	
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:				44	36		62		3	100	3	

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Attica	" Water Co	1890	*	W			(3)			Lowe					
			1900	N												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
6	Auburn	" G L Co	1890	*	C		35			35						
			1900	*	C		(30)									
			1910	*	C		110			110						
			1920	*	C		10			10						
			1930	X											Standby status	
			1940	-												
			1950	-												
			AVERAGES:						52		52					
7	Batavia	" G L Co	1890	*	W			?			Lowe M-C					
			1900	*	W			16		16						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:						16			16				
8	Bath	" Gas Co	1890	*	C		5			5						
			1900	*	C		4			4						
			1910	*	C		6			6						
			1920	*	C		10			10						
			1930	*	CW			18		18						
			1940	N												
			1950	N												
			AVERAGES:						6	18		9				

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Binghamton	" G & E Co	1890	*	W			(30)			Lowe (G)					
			1900	*	W			60		60	"					
			1910	*	W			170		170	"					
			1920	*	W			380		380	"					
			1930	*	CW			18		18	"					
			1940	N												
			1950	N												
			AVERAGES:					157		157						
10	Brockport	" G L Co	1890	*	C			3		3						
			1900	*	C			4		4						
			1910	*	C			10		10						
			1920	*	C			12		12		(1)		3		
			1930	P												
			1940	-												
			1950	-												
			AVERAGES:					7		7				3		
11	Brooklyn	" G L Co	1890	*	C			?								
			1900	C												Cons. w/Brooklyn Union Gas Co
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
12	Brooklyn	Citizen's G L Co	1890	*	C			165		165						
			1900	C												Cons. w/Brooklyn Union Gas Co
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					165		165						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Brooklyn	Fulton Municipal Gas Co	1890	*	C	800				800	Tessie du Motay					
			1900	*	W		4,000			4,000	Wilkinson					Became "Brooklyn Gas Co."
			1910	*	W		6,900			6,900	S & Wilkinson					
			1920	*	W		18,000			18,000	"					
			1930	*	W		24,144			24,144	"					
			1940	*	CH, Coke		14,554		8,816	23,370	"	590	17,000			180,000 lbs sulfate
			1950	*	W, Coke		26,264		8,000	34,264	"	576	31,500			617,330 lbs naphthalene
			AVERAGES:			800	15,777		8,408	16,040		583	24,250			
14	Brooklyn	Greenpoint GL Co	1890	*	?											
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
15	Brooklyn	Metropolitan GL Co	1890	*	C	165				165	Tessie					
			1900	C												Cons. w/Brooklyn Union Gas Co
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			165				165						
16	Brooklyn	Nassau G L Co	1890	*	C	285				285						
			1900	C												Cons. w/Brooklyn Union Gas Co
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			285				285						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Brooklyn	People's Gas L Co	1890	*	C	200				200						
			1900	C												Cons. w/Brooklyn Union Gas Co
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			200				200						
18	Brooklyn	Union Gas L Co	1890	*	C	35				35						
			1900	C												Cons. w/Brooklyn Union Gas Co
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			35				35						
19	Brooklyn	Williamsburgh G L Co	1890	*	C	300				300						
			1900	C												Cons. w/Brooklyn Union Gas Co
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			300				300						
20	Buffalo	" G L Co	1890	*	C	110				110						
			1900	*	C	600				600						
			1910	*	C	590				590						
			1920	*	C, W	500	260			840		23	36	(-)		
			1930	N												
			1940	N												
			1950	-												
			AVERAGES:			470	260			535		23	36			

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
21	Buffalo	Citizen's G Co	1890	*	C	100			100					Cons. w/ Buffalo GL Co
			1900	C										
			1910	-										
			1920	-										
			1930	-										
			1940	-										
			1950	-										
			AVERAGES:					100	100					
22	Canandaigua	" G L Co	1890	*	C	8			8					
			1900	*	C	6			6					
			1910	*	C	20			20					
			1920	0										
			1930	0										
			1940	-										
			1950	-										
			AVERAGES:			11			11					
23	Catskill	" Gas Works	1890	*	C	3			3					
			1900	*	C	6			6					
			1910	*	C	9			9					
			1920	*	C	11			11	(1)	(3)			
			1930	*	C	24			24	(1)	33			
			1940	0										
			1950	0										
			AVERAGES:			11			11		33			
24	Clifton	Staten Island G L Co	1890	*	W		36		36	Flannery				
			1900	0										
			1910	0										
			1920	-										
			1930	-										
			1940	-										
			1950	-										
			AVERAGES:				36		36					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION	
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia		Other
25	Clifton Springs	"	Sanitation Co	1890	*	C	4				4				
				1900	*	C	12				12				
				1910	*	W		12			12				
				1920	*	W		12			12				
				1930	P										
				1940	-										
				1950	-										
				AVERAGES:			8	12			10				
26	Clyde	"	B L Co	1890	*	C					Low				
				1900	0										
				1910	0										
				1920	-										
				1930	-										
				1940	-										
				1950	-										
				AVERAGES:											
27	Cohoes	"	B L Co	1890	*	W		(22)			Low (G)				
				1900	*	W		?							
				1910	0										
				1920	*	W		80			80				
				1930	C										Cons. w/Troy
				1940	-										
				1950	-										
				AVERAGES:				80			80				
28	College Point	"	Gas Co	1890	*	C	5				5				
				1900	*	W		5			5		Low		
				1910	0										
				1920	0										
				1930	-										
				1940	-										
				1950	-										
				AVERAGES:			5	5			5				

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
29	Cooperstown	" L & P Co	1890	*	W			1		1	H-L					
			1900	*	W			1		1	"					
			1910	*	W			3		3	"					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:					2		2						
30	Corning	" Gas Co	1890	*	C	10				10						
			1900	*	C	20				20						
			1910	*	C	6				6						
			1920	*	C	13				13						
			1930	*	W		57			57						
			1940	N												
			1950	-												
			AVERAGES:			12	57			21						
31	Cortland	Homer & Cortland G L Co	1890	*	C	7				7						
			1900	*	C	8				8						
			1910	*	C	25				25						
			1920	*	C	37				37						
			1930	*	W		58			58				13		
			1940	0												
			1950	0												
			AVERAGES:			19	58			27				13		
32	Dansville	" G L Co	1890	*	0			1		1						
			1900	*	0			4		4						
			1910	*	W		9			9	Low					
			1920	*	W		8			8	"					
			1930	P												
			1940	-												
			1950	-												
			AVERAGES:				9	3		6						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
33	Dunkirk	E.C.Perry & Co Gas Works	1890	*	C	7				7						
			1900	*	C	23				23						
			1910	*	C	26				26						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			19				19						
34	East Chester	" B L Co	1890	*	C	20				20						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			20				20						
35	Ellenville	" B L Co	1890	*	W			?			Van Steen.					
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
36	Elmira	" Gas Illum. Co	1890	*	C	(30)										
			1900	*	C	37				37						
			1910	*	C	21				21						
			1920	0												
			1930	*	CW			329		329						
			1940	0												
			1950	-												
			AVERAGES:			29	329			129						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
37	Fishkill on Hudson	Fishkill/Matkawan G Works	1890	*	C	(11)										
			1900	*	C	6				6						
			1910	*	C, W	10				10	Lowe					
			1920	C												Cons. w/Beacon
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			8				8						
38	Flatbush	" Gas Co	1890	*	C	20				20						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			20				20						
39	Flushing	" G L Co	1890	*	C	6				6						
			1900	*	W		20			20	Lowe					
			1910	*	W		150			150	"					
			1920	*	W		359			359	"					
			1930	*	W		169			169	"				179	
			1940	0												
			1950	0												
			AVERAGES:			6	175			141					179	
40	Fort Plain	" G & El Co	1890	*	W		?									
			1900	*	W		2			2						
			1910	*	W		2			2						
			1920	*	W		2			2						
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				2			2						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

[illegible]

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
45	Blenn Falls	" G L Co	1890	*	C	6				6					
			1900	*	C	16				16					
			1910	*	C	30				30					
			1920	*	C	77				77	(3)	(5)			
			1930	*	CW		156			156			87		
			1940	0											
			1950	0											
			AVERAGES:			32	156			57			87		
46	Gloversville	" G L Co	1890	*	W			?							
			1900	P											
			1910	*	W		96			96					
			1920	*	W		196			196					
			1930	*	CW		236			236					
			1940	0											
			1950	-											
			AVERAGES:				176			176					
47	Goshen	" G L Co	1890	*	W		3			3	Van Steen.				
			1900	*	W		2			2	" "				
			1910	*	C	4				4					
			1920	*	C	7				7					
			1930	*	C	12				12	(0.5)	12			
			1940	0											
			1950	0											
			AVERAGES:			8	3			6			12		
48	Gravesend	Coney Island G, F & L Co	1890	*	W		10			10	Lowe				
			1900	*	W		50			50	"				
			1910	0											
			1920	*	W		683			683	Locais				
			1930	*	CW		2,187			2,187	"	516		Plant at Neptune Ave & 12th St	
			1940	*	CW		2,253			2,253	"	2,149		(Brooklyn)	
			1950	*	CW		3,309			3,309	"	4,117			
			AVERAGES:				1,415			1,415		2,261			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
49	Greenbush	East Albany G L Co	1890	*	C	4			4						
			1900	*	C	3			3						
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			4			4						
50	Hastings on Hudson	Dobbs Ferry Hastings G Co	1890	*	W		2		2	Sutherland					
			1900	C											Cons. w/Tarrytown
			1910	-											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				2		2						
51	Haverstraw	Orsborne & Williams G Co	1890	*	W		(7)								
			1900	*	W		7		7						
			1910	*	W		7		7						
			1920	*	W		12		12						
			1930	*	CW		(8)								
			1940	0											
			1950	0											
			AVERAGES:				9		9						
52	Hempstead	" G L Co	1890	*	C		(3)								
			1900	*	C	4			4						
			1910	0											
			1920	0											
			1930	*	W		606		606				545		
			1940	*	W		900		900				600		
			1950	*	W		1,458		1,458				1,352		
			AVERAGES:			4	988		742				832		

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
53	Herkimer	" G L Co	1890	*	W			2		2	Sutherland					Cons. w/Illion
			1900	C												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					2		2						
54	Hoosick Falls	" G L Co	1890	*	C	(8)										
			1900	*	C	2				2						
			1910	*	C	9				9						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			6				6						
55	Hornellsville	" G L Co	1890	*	W			6		6	P-E					
			1900	N												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					6		6						
56	Hudson	" L & P Co	1890	*	C	9				9						
			1900	0												
			1910	*	C	15				15						
			1920	*	C	23				23						
			1930	*	CW		73			73				8		
			1940	0												
			1950	0												
			AVERAGES:			16	73			30				8		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
57	Huntington	Empire G & E Co	1890	*	W			(8)			Lowe					
			1900	*	W			9		9	"					
			1910	*	W			6		6	Lowe & Su.					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:					8		8						
58	Illion	" & Mohawk G L Co	1890	*	C			4		4						
			1900	*	C			7		7						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					6		6						
59	Islip of Bay Shore	" G L Co	1890	*	W			(5)			Sutherland					
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
60	Ithaca	" G L Co	1890	*	C			(12)								
			1900	*	C			10		10						
			1910	*	C			48		48						
			1920	*	C, W			26	67	93						
			1930	*	CW				164	164						
			1940	*	W				247	247						
			1950	*	W				354	354						
			AVERAGES:					28	208	153				8		Plants at Granville, Rehobothville, Norwich, Oneonta, Plattsburg (NY)

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
61	Jamaica	" G L Co	1890	*	C	(6)									
			1900	*	C	20				20					
			1910	P											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			20				20					
62	Jamestown	" G L Co	1890	*	W	(22)					M-C				
			1900	*	W	6				6	"				
			1910	O											
			1920	O											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			6				6					
63	Johnstown	" & Gloversville G Co	1890	*	W	10				10	Lowe (G)				
			1900	*	W	48				48	"				
			1910	O											
			1920	O											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			29				29					
64	Kingston	Rondont & Kingston G L Co	1890	*	W	20				20	A. Harris, Su.				
			1900	*	W	19				19	"				
			1910	*	W	63				63	"				
			1920	*	C, W	62	53			115	"	(3)	16		
			1930	*	W	274				274	"		80		
			1940	O											
			1950	O											
			AVERAGES:			62	86			98			38		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
65 LeRoy	" G L Co	1890	*	C	2				2						
		1900	*	W		300			300	Gray					
		1910	0												
		1920	0												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:			2	300			151						
66 Little Falls	" G L Co	1890	*	C	8				8						
		1900	C												Cons. w/Illion
		1910	-												
		1920	-												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:			8				8						
67 Lockport	" G L Co	1890	*	C	14				14						
		1900	*	C	30				30						
		1910	*	C	49				49						
		1920	*	C, W	59	68			127		(-)	(-)	(-)		
		1930	P												
		1940	-												
		1950	-												
		AVERAGES:			38	68			55						
68 Long Island City	East River G L Co	1890	*	C, W	30				30						
		1900	C												Cons. w/New York City
		1910	-												
		1920	-												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:			30				30						

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
69 Lyons	" G L Co	1890	*	C	2				2					
		1900	*	C	8				8					
		1910	*	C	3				3					
		1920	P											
		1930	-											
		1940	-											
		1950	-											
		AVERAGES:			4				4					
70 Malone	" G L Co	1890	*	C	2				2					
		1900	*	C	(4)									
		1910	*	C	4				4					
		1920	*	C	15				15	(-)	(2)			
		1930	*	C	22				22	(1)	7			
		1940	*	C	13				13	1	8			
		1950	0											
		AVERAGES:			11				11	1	8			
71 Medina	" G L Co	1890	*	?										
		1900	0											
		1910	*	C	5				5					
		1920	*	C	7				7					
		1930	0											
		1940	0											
		1950	-											
		AVERAGES:			6				6					
72 Middletown	" G & El Co	1890	*	C	14				14					
		1900	*	C	14				14					
		1910	*	W		35			35					
		1920	*	W		95			95					
		1930	0											
		1940	0											
		1950	-											
		AVERAGES:			14	65			40					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
73	Milton	Ballston Spa G L Co	1890	*	W		2			2	M-L				
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				2			2					
74	Mount Vernon	East Chester G Co	1890	*	C	(6)									
			1900	*	C	84				84					
			1910	*	W		1,090			1,090	LOWE				
			1920	*	W		2,400			2,400	"	460			
			1930	*	W		590			590	"	385		Most gas purchased	
			1940	P											
			1950	-											
			AVERAGES:			84	1,360			1,041		433			
75	Newburgh	Consumer's Gas Co	1890	*	W		25			25	Martin				
			1900	*	W		32			32	LOWE				
			1910	*	W		78			78	"				
			1920	0											
			1930	*	CW		314			314		133			
			1940	0											
			1950	0											
			AVERAGES:				112			112		133			
76	New Rochelle	" G & Fuel Co	1890	*	W		6			6	LOWE (M-C)				
			1900	*	W		37			37	"				
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				22			22					

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
77	New York City	Central G L Co	1890	*	C	?										
			1900	*	C	26				26						
			1910	*	C,W	600	1,200			1,800						
			1920	*	C,W	800	2,640			3,440						
			1930	*	C,W	815	2,770			3,585		52	882	153		848,100 lbs ammonia sulfate, also
			1940	0												117,640 lbs cyanogen; 50,800 lb
			1950	0												ammonia liquor
			AVERAGES:			560	2,203			2,213		52	882	153		
78	New York City	Consolidated Gas Co	1890	*	C,W	?										
			1900	*	C,W	6,000				6,000						
			1910	*	C,W	14,900				14,900						
			1920	*	C,W	3,370	7,220			10,590		(544)	4,600			
			1930	*	W,Coke		5,919		8,030	13,949						
			1940	*	W		41,109			41,109						
			1950	*	W,Coke		45,973		10,794	56,767						
			AVERAGES:			8,090	25,055		9,412	23,886			4,600			
79	New York City	Equitable G L Co	1890	*	W		1,250			1,250	German.					
			1900	*	W		?				Lowe (Wi)					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				1,250			1,250						
80	New York City	NY Mutual G L Co	1890	*	W		850			850	Wi					
			1900	*	W		1,900			1,900	"					
			1910	*	W		1,810			1,810	Lowe					
			1920	*	W		?				"					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				1,520			1,520						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
81	New York City	Northern G L Co	1890	*	C	?										
			1900	*	C	150				150						
			1910	*	C	770				770						
			1920	*	C	1,940				1,940						
			1930	P												
			1940	-												
			1950	-												
			AVERAGES:			953				953						
82	New York City	Standard G L Co	1890	*	W		360			360	F1					
			1900	*	W		?				Low					
			1910	*	W		2,000			2,000	"					
			1920	*	W		2,500			2,500	"					
			1930	*	CW		4,510			4,510	"					
			1940	0												
			1950	0												
			AVERAGES:				2,345			2,345						
83	Niagara Falls	" G L Co	1890	*	C		8			8						
			1900	*	C		10			10						
			1910	*	C		30			30						
			1920	*	C		49			49		(3)	(-)	(-)		
			1930	P												
			1940	-												
			1950	-												
			AVERAGES:				24			24						
84	Norwich	" L & P Co	1890	*	C		(6)									
			1900	0												
			1910	*	W		15			15	Low					
			1920	*	W		30			30	"					
			1930	*	CW		44			44	"				44	
			1940	0												
			1950	0												
			AVERAGES:				30			30						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Natur	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
85	Nyack	" & Warren B L Co	1890	*	W			4		4	H-L				
			1900	*	W			10		10	"				
			1910	*	W			26		26	Lowe				
			1920	*	W			37		37	"				
			1930	*	CW			216		216	"				
			1940	N											
			1950	-											
			AVERAGES:					59		59					
86	Ogdenburg	" G L Co	1890	*	C	(13)									
			1900	*	C	7				7					
			1910	*	C	16				16					
			1920	*	C	27				27		(1)	(-)		
			1930	*	C	(15)									
			1940	N											
			1950	-											
			AVERAGES:			17				17					
87	Oneida	" G L Co	1890	*	C	(8)									
			1900	*	C	4				4					
			1910	*	C, W	13				13	Lowe				
			1920	0											
			1930	P											
			1940	-											
			1950	-											
			AVERAGES:			9				9					
88	Oneonta	" E I & P Co	1890	*	W		(8)				Van Steen.				
			1900	*	W		4			4	"				
			1910	*	W		13			13	Lowe				
			1920	*	W		25			25	"				
			1930	*	CW		58			58	"				
			1940	0											
			1950	0											
			AVERAGES:				25			25					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION		
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other			
89	Oswego	"	G L Co	1890	*	C	(23)										
				1900	*	C	16										
				1910	*	C	45										
				1920	*	C	58					3	76		7		
				1930	*	C	79					6	108		5		
				1940	0												
				1950	0												
				AVERAGES:			50								5	92	6
90	Owego	"	G L Co	1890	*	C	(6)										
				1900	*	C	6										
				1910	*	C	7										
				1920	*	C	12										
				1930	*	C	15					1	14				
				1940	N												
				1950													
				AVERAGES:			10								1	14	
91	Palmyra	"	G L Co	1890	*	C	2										
				1900	*	C	2										
				1910	*	C	4										
				1920	P												
				1930	-												
				1940	-												
				1950	-												
				AVERAGES:			3								3		
92	Peekskill	"	G L Co	1890	*	?											
				1900	*	W	11								11	Lowe	
				1910	*	W	34								34	"	
				1920	*	W	52								52	"	
				1930	C												Cons. W/Westchester
				1940	-												
				1950	-												
				AVERAGES:			32								32		

Cons. W/Westchester

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT. / YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Natur	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
93	Penn Yan	"	B L Co	1890	*	C	4				4				
				1900	*	C	6			6					
				1910	*	C	8			8					
				1920	*	C	10			10					
				1930	*	C	22			22					
				1940	0										
				1950	0										
				AVERAGES:			10			10					
94	Plattsburgh	"	L, H & P Co	1890	*	W	4			4	Lowe				
				1900	*	W	8			8	"				
				1910	*	W	24			24	"				
				1920	*	W	46			46	"				
				1930	*	W	71			71	"				
				1940	0										
				1950	0										
				AVERAGES:			31			31					
95	Port Chester		Citizen's B L Co of West.	1890	*	W	(11)				Wi, Kennedy				
				1900	*	W	23			23	"				
				1910	0										
				1920	0										
				1930	-										
				1940	-										
				1950	-										
				AVERAGES:			23			23					
96	Port Henry	"	Gas Co	1890	*	W	1			1	H-L				
				1900	*	W	1			1	Suther.				
				1910	*	W	1			1	"				
				1920	0										
				1930	0										
				1940	-										
				1950	-										
				AVERAGES:			1			1					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia	
97	Port Jervis	" G L Co	1890	*	W		6		6	Lowe				
			1900	*	W		8		8	"				
			1910	*	W		10		10	"				
			1920	0										
			1930	0										
			1940	-										
			1950	-										
			AVERAGES:				8		8					
98	Poughkeepsie	" G Co	1890	*	W		40		40	Allen-Harris				
			1900	*	W		43		43	Lowe				
			1910	*	W		110		110	"				
			1920	*	W		394		394	"				
			1930	*	W		397		397	"		211		
			1940	*	CW	1,370		1,370	"		1,865			
			1950	N										
			AVERAGES:				392		392			1,038		
99	Rhinebeck	" G Co	1890	*	0		(2)							
			1900	*	0		1		1					
			1910	0										
			1920	0										
			1930	-										
			1940	-										
			1950	-										
			AVERAGES:				1		1					
100	Rochester	Citizen's Gas Co	1890	*	C	100			100					
			1900	*	C	350			350					
			1910	*	C,W	365	709		1,074					
			1920	*	C,W	1,530	1,070		2,600	(48)	(270)			
			1930	*	C,CW	3,670	1,104		4,774	200	3,984			
			1940	*	CW,Coke		507	4,553	5,060					
			1950	*	Coke			4,438	4,438					
			AVERAGES:			1,203	848		4,496	2,628	200	3,984		

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
101	Rochester	Municipal G L Co	1890	P												
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
102	Rochester	" G L Co	1890	*	C	90				90						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			90				90						
103	Rome	" GL Co	1890	*	C	8				8						
			1900	*	C	13				13						
			1910	*	C,W	26	18			44	Low					
			1920	*	C,W	124	8			132	"	(5)	(-)			
			1930	C												Cons. w/Watertown
			1940	0												
			1950	-												
			AVERAGES:			43	13			49						
104	Sag Harbor	United Gas Improve. Co	1890	*	W		2			2	Low					
			1900	*	W		4			4	"					
			1910	*	W		15			15	"					
			1920	*	W		19			19	"					
			1930	P												
			1940	-												
			1950	-												
			AVERAGES:				10			10						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
105	Salamanca	" Gas Co	1890	+	W			(5)			M-C					
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
106	Saratoga Springs	G & E L Co	1890	+	W			(12)			Lowe					
			1900	+	W			25		25	"					
			1910	+	W			44		44	"					
			1920	+	W			64		64	"					
			1930	X												
			1940	-												
			1950	-												
			AVERAGES:													
107	Saugerties	" G L Co	1890	+	C			4			4					
			1900	+	C			5		5						
			1910	+	C			6		6						
			1920	+	C			18		18						
			1930	P												
			1940	P												
			1950	0												
			AVERAGES:													
108	Schenectady	" G L Co	1890	+	C			14			14					
			1900	+	C			25		25						
			1910	+	C, W			180		180	Lowe					
			1920	+	C, W			333	231	564	"	(15)	(-)	(-)		
			1930	X												
			1940	-												
			1950	-												
			AVERAGES:													
						138	231			196						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
109	Seneca Falls	" & Water Works G L Co	1890	*	C	8				8						
			1900	*	C	7				7						
			1910	P												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			8				8						
110	Sing Sing	G Mfg Co	1890	*	C	(7)										
			1900	*	C	15				15						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			15				15						
111	Stapleton	Richmond City G L Co	1890	*	W		38			38	Flannery					
			1900	*	W		70			70	Lowe					
			1910	*	W		275			275	"					
			1920	*	W		554			554	"					
			1930	*	W		937			937	"			365		
			1940	*	W		965			965	"					
			1950	*	W		995			995	"			1,157		
			AVERAGES:				548			548				761		
112	Syracuse	" G L Co	1890	*	C	(95)										
			1900	0												
			1910	*	C, W	535				535						
			1920	*	C, W	1,200				1,200				(9)		
			1930	*	C, W	2,155	338			2,493		(14)	2,352		951	
			1940	*	W		508			508		43	809			
			1950	*	W		1			1						
			AVERAGES:			1,297	282			947		43	1,581		951	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
113	Tarrytown	" & Irvington G L Co	1890	*	W		12			12						
			1900	*	W		18			18	Allen-Harris					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				15			15						
114	Tonawanda	" G L Co	1890	*	C		16			16						
			1900	*	C		17			17						
			1910	*	C		78			78						
			1920	*	C		0									
			1930	P												
			1940	-												
			1950	-												
			AVERAGES:				37			37						
115	Troy	" G Co	1890	*	W		130			130	H.C. Shields					
			1900	*	W		155			155	"					
			1910	*	W		306			306	"					
			1920	*	W		476			476	"					
			1930	P												
			1940	-												
			1950	-												
			AVERAGES:				267			267						
116	Utica	Equitable G & E Co	1890	*	W		(45)				J(B)					
			1900	*	W		90			90	G-C					
			1910	*	W		380			380	Lowe(W1)					
			1920	*	W		746			746	"					
			1930	*	W		1,656			1,656	"	131	2,191		3,852,000 lbs sulfate	
			1940	*	C, W	2,194	244			2,438		130	2,111			
			1950	*	C	1,825				1,825						
			AVERAGES:			2,010	623			1,189		131	2,151			

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
117	Wappinger Falls	Franklindale Co	1890	*	C	(4)								
			1900	*	C	1			1					
			1910	0										
			1920	0										
			1930	-										
			1940	-										
			1950	-										
			AVERAGES:			1			1					
118	Warsaw	Citizen's G L Co	1890	*	W		2		2	M-C				
			1900	*	W		2		2	"				
			1910	*	W		2		2	"				
			1920	0										
			1930	0										
			1940	-										
			1950	-										
			AVERAGES:				2		2					
119	Watertown	" G L Co	1890	*	C	(12)								
			1900	*	C	22			22					
			1910	*	C, W	84	6		90	Lowe				
			1920	*	C, W	100	42		142	"	(2)	12	(-)	
			1930	*	C, W	321	47		368	"	(5)	405		64,700 gallons coal liquor
			1940	*	C	155			155	"	8	245		
			1950	*	W		281		281	"				
			AVERAGES:			136	94		176		8	221		
120	Waterville	" G L Co	1890	*	W		2		2	Lowe				
			1900	*	W		3		3	"				
			1910	*	W		2		2	"				
			1920	0										
			1930	0										
			1940	-										
			1950	-										
			AVERAGES:				2		2					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)			GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil		Coke	Total	Coke	Tar	
121	Watkins	" G Co Ltd	1890	#	C	(3)							
			1900	#	C	5		5					
			1910	0									
			1920	#	C	1		1					
			1930	0									
			1940	0									
			1950	-									
			AVERAGES:			3		3					
122	Waverly	B L Co of Waverly	1890	#	W		3		3	Lowe			
			1900	#	W		15		15	"			
			1910	#	W		12		12	"			
			1920	#	W		16		16	"			
			1930	P									
			1940	-									
			1950	-									
			AVERAGES:			12		12					
123	Westfield	" Gas Works	1890	#	?								
			1900	N									
			1910	-									
			1920	-									
			1930	-									
			1940	-									
			1950	-									
			AVERAGES:										
124	West Troy	Municipal G Co	1890	#	?								
			1900	P									
			1910	-									
			1920	-									
			1930	-									
			1940	-									
			1950	-									
			AVERAGES:										

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft. / YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
125	Whitehall	" G L Co	1890	*	C	(5)										
			1900	*	C	(5)										
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
126	White Plains	" G L Co	1890	*	W		5			5	Slade					
			1900	*	W		15			15						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				10			10						
127	Yonkers	" G L Co	1890	*	W		90			90	Lowe					
			1900	C										Cons. w/Municipal G Co-Yonkers		
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				90			90						
128	Yonkers	Municipal Gas Co	1890	*	W		?									
			1900	*	W		212			212						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				212			212						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

[illegible]

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
133	Fort Edward		1890													
			1900	*	C											Under construction
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
134	Newark	" G, L & Fuel Co	1890													
			1900	*	C				?							
			1910	*	C				8	8						
			1920	*	C				34	34						
			1930	P												
			1940	-												
			1950	-												
			AVERAGES:						21	21						
135	New Utrecht (LI)	King's County G & Illum Co	1890													
			1900	*	W				125	125	Meeze					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:						125	125						
136	Rensseler	East Albany L Co	1890													
			1900	*	C				4	4						
			1910	*	C				7	7						
			1920	*	C				18	18						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:						10	10						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

[illegible]

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)			GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other
133	Fort Edward		1890											
			1900	*	C									Under construction
			1910	0										
			1920	0										
			1930	-										
			1940	-										
			1950	-										
			AVERAGES:											
134	Newark	" G, L & Fuel Co	1890											
			1900	*	C									
			1910	*	C					8				
			1920	*	C					34				
			1930	P										
			1940	-										
			1950	-										
			AVERAGES:			21				21				
135	New Utrecht (LI)	King's County G & Illum Co	1890											
			1900	*	W			125		125				Meeze
			1910	0										
			1920	0										
			1930	-										
			1940	-										
			1950	-										
			AVERAGES:					125		125				
136	Rensseler	East Albany L Co	1890											
			1900	*	C					4				
			1910	*	C					7				
			1920	*	C					18				
			1930	0										
			1940	0										
			1950	-										
			AVERAGES:					10		10				

TABLE D-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
137	Rockaway Beach (LI)	Hempstead E L Co	1890												
			1900	*	W			15		15	Lowe				
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				15		15						
138	Brooklyn	Flatbush Gas Co	1890												
			1900												
			1910	*	C			500		500					
			1920	P											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				500		500						
139	Brooklyn	King's County Lt Co	1890												
			1900												
			1910	*	W			520		520	Lowe				
			1920	*	W			1,400		1,400	"				
			1930	*	CW			2,739		2,739	"				
			1940	*	CW			2,812		2,812	"			2,514	
			1950	*	CW			3,755		3,755	"			3,233	
			AVERAGES:					2,245		2,245				2,874	
140	Far Rockaway	Queen's Borough G & E Co	1890												
			1900												
			1910	*	W			142		142	Lowe				
			1920	*	W			528		528	"				
			1930	*	W			2,600		2,600	"			1,314	
			1940	*	W			3,194		3,194	"			2,800	
			1950	*	W			4,639		4,639	"			4,281	
			AVERAGES:					2,221		2,221				2,798	

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
141	Fredonia	"	Nat G L Co	1890											
				1900											
				1910	*	C	10		10						
				1920	0										
				1930	0										
				1940	-										
				1950	-										
				AVERAGES:			10		10						
142	Free Port		Nassau, Suffolk Light Co	1890											
				1900											
				1910	*	W	111		111	Low					
				1920	*	W	450		450	"					
				1930	0										
				1940	0										
				1950	-										
				AVERAGES:			281		281						
143	Fulton		" Fuel & Light Co	1890											
				1900											
				1910	*	C,W	25		25						
				1920	*	C,W	29		29		(1)	(-)			
				1930	*	C,W	43	3	46		3	44			
				1940	0										
				1950	0										
				AVERAGES:			32	3	33		3	44			
144	Glenn Cove		Sea Cliff & Glenn Cove Gas	1890											
				1900											
				1910	*	W	12		12	Low					
				1920	*	W	24		24	"					
				1930	0										
				1940	0										
				1950	-										
				AVERAGES:			18		18						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
145	Granville	" E&G Co	1890													
			1900													
			1910	*	W		(5)				Lowe					
			1920	*	W		7			7	"					
			1930	*	CW		9			9	"					
			1940	0												
			1950	0												
			AVERAGES:				8			8						
146	Mechanicville	Half Moon LH&P Co	1890													
			1900													
			1910	*	W		3			3	Lowe					
			1920	*	W		15			15	"					
			1930	*	CW		37			37	"					
			1940	0												
			1950	0												
			AVERAGES:				18			18						
147	Newtown	" G Co	1890													
			1900													
			1910	P												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
148	New York City	New Amsterdam G Co	1890													
			1900													
			1910	*	W		4,000			4,000	Lowe					Plant in Ravenswood, LI
			1920	*	W		6,200			6,200	"		1,457			
			1930	*	W		2,617			2,617	"					
			1940	0												
			1950	0												
			AVERAGES:				4,272			4,272			1,457			

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (M CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
149 Ossining		Northern Westchester L Co	1890													
			1900													
			1910	*	W			25		25	Low					
			1920	*	W			66		66	"					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					46		46						
150 Patchogue		" G Co	1890													
			1900													
			1910	*	W			13		13	Low					
			1920	P												
			1930	X												Standby status
			1940	-												
			1950	-												
			AVERAGES:					13		13						
151 Sandy Hill		United Gas E&F Co	1890													
			1900													
			1910	*	C		10			10						
			1920	P												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				10			10						
152 Suffern		" G Co	1890													
			1900													
			1910	*	W		8			8	Low					
			1920	*	W		7			7	"					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				8			8						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NEW YORK

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
153	Westchester	The Bronx G&F Co	1890													
			1900													
			1910	*	W		110			110	Lowe					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				110			110						
154	West Point	" Govt. Reservation	1890													
			1900													
			1910	*	C	15				15						
			1920	*	C	15				15						
			1930	*	C	?										
			1940	0												
			1950	0												
			AVERAGES:			15				15						
155	Astoria	" LH&P Co	1890													
			1900													
			1910													
			1920	*	C, W	4,440	6,650			11,090						
			1930	*	C, W	3,865	19,979			23,844		254	16,220	565	5,078,140 lbs ammonium sulfate	
			1940	0												
			1950	0												
			AVERAGES:			4,153	13,315			17,467		254		565		
156	Beacon	Southern Dutchess G Co	1890													
			1900													
			1910													
			1920	*	W		10			10	Lowe (Su)					
			1930	*	W		2			2	"					
			1940	0												
			1950	0												
			AVERAGES:				6			6						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
157	New York City	Bronx G&E Co	1890													
			1900													
			1910													
			1920	*	W			230		230	Lowe					Plant at Zerega Ave
			1930	X												
			1940	-												
			1950	-												
			AVERAGES:					230		230						
158	Saranac Lake	Mountain G Co	1890													
			1900													
			1910													
			1920													
			1930	*	W			17		17						
			1940	*	W			15		15						
			1950	0												
			AVERAGES:					16		16						
159	Troy	Hudson Valley Fuel Corp	1890													
			1900													
			1910													
			1920													
			1930													
			1940	*	W, Coke			1,899	5,273	7,172		(6)	5,390		11,519,130 lbs ammonium sulfate	
			1950	0												
			AVERAGES:					1,899	5,273	7,172			5,390			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NORTH CAROLINA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Charlotte	* GL Co	1890	*	C, W	8				8	Low					
			1900	*	C, W	17				17	"					
			1910	*	C, W	45				45	"					
			1920	*	C, W	200				200	"					
			1930	*	C, CW	195	161			356	"	(6)	234			
			1940	0												
			1950	*	C, CW	642				642						
			AVERAGES:			185	161			211					234	
2	Fayetteville	* GL Co	1890	*	C	(8)										
			1900	*	C	(5)										
			1910	*	C, W	9				9	Low					
			1920	*	C, W	15				15	"					
			1930	*	CW		24			24	"					
			1940	0												
			1950	0												
			AVERAGES:			12	24			16						
3	Goldsboro	Water, G&EL Co	1890	*	?											
			1900	0												
			1910	0												
			1920	*												
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:													
4	Greensboro	* G&EL Co	1890	*	C	4				4						
			1900	*	C	9				9						
			1910	*	C	24				24						
			1920	*	C	70				70		(0)	20			
			1930	*	C, W	144	89			233		(4)	143			
			1940	*	C, W	145	54			199						
			1950	*	W		359			359						
			AVERAGES:			66	167			128					85	

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NORTH CAROLINA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Salisbury	* G&E Co	1890	*	?											Rosin feedstock
			1900	*	C	2				2						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			2				2						
10	Wilmington	* BL Co	1890	*	C	12				12						
			1900	*	C	10				10						
			1910	*	C	36				36						
			1920	*	C, W	28	32			60	Low	4	79			
			1930	*	C, W	69	69			138	"					
			1940	*	C, CW	79	197			276	"					
			1950	*	CW		497			497	"			181		
			AVERAGES:			39	199			147		4	130			
11	Asheville	* E Co	1890													
			1900													
			1910	*	W			?			Edgerton					
			1920	*	C	6				6		(1)	28			
			1930	*	C	94				94		(3)	38			
			1940	*	C	114				114		(1)	116			
			1950	*	C	197				197		8	161			
			AVERAGES:			103				103		8				
12	Durham	* L&P Co	1890													
			1900													
			1910	*	C	16				16						
			1920	*	C	51				51		(1)	25			
			1930	*	C, W	87	25			112		(5)	270			
			1940	*	C, W	132	49			181						
			1950	*	W		324			324			97			
			AVERAGES:			72	133			137						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)		GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Oil		Coke	Tar	Ammonia	Other	
13	Baldsboro	" B Co	1890										
			1900										
			1910	*	?								Under construction
			1920	*	W		25		25		5		
			1930	*	CW		15		15				
			1940	0									
			1950	N									
			AVERAGES:				20		20		5		
14	Salisbury	" Spencer Railway Co	1890										
			1900										
			1910	*	C, W	17			17	Lowe			
			1920	*	C, W	36	4		40	"			
			1930	*	C	50			50	"	(2)	40	
			1940	0									
			1950	0									
			AVERAGES:			34	4		36			40	
15	Washington	" L&N Co	1890										
			1900										
			1910	*	W	10			10	Lowe			
			1920	*	W	18			18	"			
			1930	*	CW	19			19	"			
			1940	0									
			1950	0									
			AVERAGES:			16			16				
16	Winston-Salem	" L&E Co	1890										
			1900										
			1910	*	C	21			21				
			1920	*	C, W	68	17		85	Lowe	(2)		(-)
			1930	*	C, W	139	10		149	"	7	145	
			1940	*	C, W	129	19		148	"			
			1950	*	W		328		328	"			
			AVERAGES:			89	94		146		7	145	

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NORTH CAROLINA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Concord	Kannapolis G Co	1890													
			1900													
			1910													
			1920	*	C, W	18				18	Low					
			1930	*	C, W	30	1			31	"	(0.2)		24		
			1940	*	C	39				39		2		40		
			1950	N												
			AVERAGES:			29	1			29		2		32		
18	Elizabeth City	S B Improvement Co	1890													
			1900													
			1910													
			1920	*	W		12			12	Low					
			1930	*	CW		18			18	"					
			1940	*	CW		18			18	"					
			1950	N												
			AVERAGES:				16			16						
19	Gastonia	Suburban G Co	1890													
			1900													
			1910													
			1920	*	W		15			15						
			1930	*	W		34			34						
			1940	*	W		43			43						
			1950	*	W		136			136				47		
			AVERAGES:				57			57				47		
20	High Point	N Carolina Pub Serv Co	1890													
			1900													
			1910													
			1920	*	C	16				16						
			1930	*	C, W	62	106			168		(1)		53		
			1940	*	C	58				58						
			1950	N												
			AVERAGES:			45	106			81				53		

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (100 cu. ft./yr)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21	Rocky Mount	" Pub Wks & Dept	1890												
			1900												
			1910												
			1920	*	W		44		44						
			1930	0											
			1940	*	CW		115		115			48			
			1950	*	CW		168		168						
			AVERAGES:				109		109			48			
22	Statesville	Gas Dept, City of "	1890												
			1900												
			1910												
			1920	*	C, W	5		5	Lowe						
			1930	*	C, W	19		19	"						
			1940	*	CW		27	27	"			20			
			1950	N											
			AVERAGES:			12	27	17			20				
23	Wilson	Town of ", & Dept	1890												
			1900												
			1910												
			1920	*	W		36		36	Tenney					
			1930	0											
			1940	*	W		54		54						
			1950	N											
			AVERAGES:				45		45						
24	Greenville	Carolina G&E Co	1890												
			1900												
			1910												
			1920												
			1930	*	CW		22		22						
			1940	*	CW		36		36						
			1950	N											
			AVERAGES:				29		29						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NORTH CAROLINA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Concord	Kannapolis G Co	1890													
			1900													
			1910													
			1920	*	C, W	18				18	Low					
			1930	*	C, W	30	1			31	"	(0.2)	24			
			1940	*	C	39				39		2	40			
			1950	N												
			AVERAGES:			29	1			29		2	32			
18	Elizabeth City	S B Improvement Co	1890													
			1900													
			1910													
			1920	*	W		12			12	Low					
			1930	*	W		18			18	"					
			1940	*	W		18			18	"					
			1950	N												
			AVERAGES:				16			16						
19	Bastonia	" Suburban G Co	1890													
			1900													
			1910													
			1920	*	W		15			15						
			1930	*	W		34			34						
			1940	*	W		43			43						
			1950	*	W		136			136			47			
			AVERAGES:				57			57			47			
20	High Point	N Carolina Pub Serv Co	1890													
			1900													
			1910													
			1920	*	C	16				16						
			1930	*	C, W	62	106			168		(1)	53			
			1940	*	C	58				58						
			1950	N												
			AVERAGES:			45	106			81			53			

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21	Rocky Mount	" Pub Wks & Dept	1890												
			1900												
			1910												
			1920	*	W		44		44						
			1930	0											
			1940	*	CW		115		115				48		
			1950	*	CW		168		168						
			AVERAGES:				109		109				48		
22	Statesville	Gas Dept, City of "	1890												
			1900												
			1910												
			1920	*	C, W		5		5	Lowe					
			1930	*	C, W		19		19	"					
			1940	*	CW			27	27	"			20		
			1950	N											
			AVERAGES:				12	27	17				20		
23	Wilson	Town of ", & Dept	1890												
			1900												
			1910												
			1920	*	W		36		36	Tenney					
			1930	0											
			1940	*	W		54		54						
			1950	N											
			AVERAGES:				45		45						
24	Greenville	Carolina G&E Co	1890												
			1900												
			1910												
			1920												
			1930	*	CW		22		22						
			1940	*	CW		36		36						
			1950	N											
			AVERAGES:				29		29						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NORTH CAROLINA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Dil	Coke		Total	Coke	Tar	Ammonia	
25	Hickory	Piedmont Util Co	1890											
			1900											
			1910											
			1920											
			1930	*	W			(19)						
			1940	0										
			1950	0										
			AVERAGES:											
26	Kinston	Carolina G&E Co	1890											
			1900											
			1910											
			1920											
			1930	*	W			(20)			8			
			1940	0										
			1950	0										
			AVERAGES:								8			
27	Lexington	N Carolina G Co	1890											
			1900											
			1910											
			1920											
			1930	*	W		14		14					
			1940	*	CW		27		27					
			1950	N										
			AVERAGES:				21		21					
28	Reidsville	N Carolina G Co	1890											
			1900											
			1910											
			1920											
			1930	*	CW		6		6					
			1940	*	CW		15		15					
			1950	N										
			AVERAGES:				11		11					

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Natur	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
1	Fargo	" G&E Co	1890	*	C	1				1					
			1900	*	C	5				5					
			1910	*	C	53				53					
			1920	*	C	139				139	(3)	(-)			
			1930	*	C, W	185	27			212	(3)	270			
			1940	*	C, W	197	5			202	(4)	313			
			1950	*	C, W	218	102			320	9	414			
			AVERAGES:			114	45			133	9	332			
2	Grand Forks	" G&E Co	1890	*	C, W	9				9	Lowe (S)				
			1900	*	C, W	25				25	"				
			1910	*	C, W	16	24			40	"				
			1920	*	C, W	56				56	"				
			1930	*	C, W	81	15			96	"				
			1940	*	C, W	71	28			99	"	(-)	71		
			1950	N											
			AVERAGES:			43	22			54			71		
3	Grand Forks	Dual City B Co	1890												
			1900	P											
			1910	-											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:												
4	Ellendale	" L&P Co	1890												
			1900												
			1910	*	W		3			3	Tenney				
			1920	0											
			1930	0											
			1940	-											
			1950	-											
			AVERAGES:				3			3					

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: NORTH DAKOTA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Jamestown	" B Co	1890													
			1900													
			1910	*	C		4			4						
			1920	*	C		10			10						
			1930	*	CW			18		18						
			1940	*	CW			13		13						
			1950	N												
			AVERAGES:				7	16		11						
6	Bismarck	" B Co	1890													
			1900													
			1910													
			1920	*	C		15			15			(0.1)			
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:				15			15						
7	Valley City	" B Co	1890													
			1900													
			1910													
			1920	*	W			19		19						
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:					19		19						
8	Minnot	" B Co	1890													
			1900													
			1910													
			1920													
			1930	*	CW			35		35	Tenney					
			1940	*	CW			43		43	"					
			1950	N												
			AVERAGES:					39		39						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Akron	" G L Co	1890	*	C	(25)										
			1900	*	C	50				50						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			50				50						
2	Akron	" L, H & P Co	1890	*	W			?								Under construction
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
3	Alliance	" G L Co	1890	*	C	(8)										
			1900	*	C	8				8						
			1910	*	C	25				25						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			17				17						
4	Ashland	" Gas Works	1890	*	C	5				5						
			1900	*	C	7				7						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			6				6						

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Ashtabula	" B L Co	1890	*	C	4				4						
			1900	*	C	14				14						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			9				9						
6	Athens	" G & E Co	1890	*	C	6				6						
			1900	N												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			6				6						
7	Barnesville	" G L & Coke Co	1890	*	C	2				2						
			1900	*	C	(4)										
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			2				2						
8	Bellaire	" G & E Co	1890	*	C	17				17						
			1900	*	C	10				10						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			14				14						

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Canton	" G L & Coke	1890	*	C	45				45						
			1900	*	C	43				43						
			1910	*	C	5				5						
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			31				31						
14	Chillicothe	" G & W Co	1890	*	C	(12)										
			1900	*	C	10				10						
			1910	*	C	8				8						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			9				9						
15	Cincinnati	" G L & Coke Co	1890	*	C	1,000				1,000						
			1900	*	C	1,100				1,100						
			1910	X												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			1,050				1,050						
16	Circleville	" G L & Coke Co	1890	*	C	(8)										
			1900	*	C	7				7						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			7				7						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION		RATE (MM CU. FT./YR)		GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
17	Cleveland	" G L & Coke Co	1890	*	C	(260)									
			1900	*	C	1,100				1,100					
			1910	*	C,W	1,500				1,500					
			1920	*	C,W	140	70			210					
			1930	*	CW,Coke			488		488					Coke gas is included in water gas prod'n
			1940	N											
			1950	N											
			AVERAGES:			913	70	488		825					
18	Cleveland	People's G L Co	1890	*	C	(80)									
			1900	*	C	30				30					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			30				30					
19	Columbus	" G L & Coke Co	1890	*	C	200				200					
			1900	*	C	185				185					
			1910	*	C	50				50					
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			145				145					
20	Coshocton	" L, Fuel & P Co	1890	*	C	4				4					
			1900	*	C	7				7					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			6				6					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia	
21	Dayton	" G L & Coke Co	1890	*	W			(55)			Lowe (6)				
			1900	*	W			20		20	"				
			1910	*	C,W		318	17		335	"				
			1920	0											
			1930	0											
			1940	-											
			1950	-											
			AVERAGES:				169	17		178					
22	Defiance	" Gas Co	1890	*	D			(10)							
			1900	*	C		3			3					
			1910	*	C		9			9					
			1920	*	C		35			35		(0.2)	(0)		
			1930	*	C		50			50		(1)	58		
			1940	*	C		26			26		(0.6)	33		
			1950	N											
			AVERAGES:				25			25			46		
23	Delaware	" G L & Coal Oil Co	1890	*	C		12				12				
			1900	*	C		15				15				
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				14			14					
24	Delphos	" G L Co	1890	*	C		5				5				
			1900	*	0					5	5	Van Scykel			
			1910	0											
			1920	*	C		20			20		(0.7)	(0)		
			1930	*	C		28			28		(1)	32		
			1940	0											
			1950	-											
			AVERAGES:				18			5	15		32		

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION		
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia		Other	
25	East Liverpool	" G L Co	1890	*	C	(8)										
			1900	N												
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
26	Elyria	" G & W Co	1890	*	W		6			6						
			1900	*			20			20						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				13			13						
27	Fostoria	" L & P Co	1890	*	W		7			7	Lowe (M-C)					
			1900	*			100			100						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				100	7				94				
28	Fremont	" G & Plumb.	1890	*	O			(12)								
			1900	*			7			7	M-C					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					7				7				

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
29	Balion	* B L Co	1890	*	C	6				6						
			1900	*	C	7				7						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			7				7						
30	Gallipolis	* B & Coke Co	1890	*	C	3				3						
			1900	*	C	7				7						
			1910	N												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			5				5						
31	Glendale	* Mutual B L Co	1890	*	0			(2.5)								Naphtha feedstock
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
32	Greenville	* Gas Co	1890	*	C	6				6						
			1900	*	C	4				4						
			1910	*	C	5				5						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAG			5				5						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT. / YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
33	Hamilton	" B L & Coke Co	1890	*	C	13				13						
			1900	*	C, M	45				45						
			1910	*	Coke				110	110						
			1920	*	Coke				?							
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			29			110	56						
34	Hamilton	" Gas Works	1890	*	C	50				50						
			1900	*	0			60		60	Kendall					
			1910	*	0			73		73						
			1920	*	0			?								
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			50		67		61						
35	Hillsboro	" B & E Co	1890	*	C	4				4						
			1900	*	C	4				4						
			1910	*	C	6				6						
			1920	*	C	6				6						
			1930	*	C	12				12						
			1940	*	C	9				9				9		
			1950	-												
			AVERAGES:			7				7						
36	Ironton	" Gas Co	1890	*	C	9				9						
			1900	*	C	16				16						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			13				13						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
37	Kenton	Scioto Nat. Gas & Oil Co	1890	*	W		6			6	M-C					
			1900	*	W		8			8	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				7			7						
38	Lancaster	" G L & Coke Co	1890	*	C		8			8						
			1900	*	C		6			6						
			1910	*	C		4			4						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				6			6						
39	Lebanon	" L Fuel & P Co	1890	*	?											
			1900	*	?											
			1910	*	0			6		6	Van Syckel					
			1920	*	0			5		5	" "					
			1930	*	0			(2)			" "					
			1940	*	W		2			2						
			1950	0												
			AVERAGES:				2	6		4						
40	Lima	" G L Co	1890	*	W		(20)									
			1900	*	W		19			19						
			1910	*	W		40			40						
			1920	*	W		38			38						
			1930	*	W		268			268						
			1940	N												
			1950	N												
			AVERAGES:				91			91						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
41	Logan	" B L & Coke Co	1890	*	C	4				4						
			1900	N												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			4			4							
42	London	" B L Co	1890	*	C	5				5						
			1900	*	C	5				5						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			5			5							
43	Mansfield	" B L Co	1890	*	W		18			18	M-C					
			1900	*	W		33			33	"					
			1910	*	W		10			10	"					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			20		20								
44	Marion	" B L Co	1890	*	C	6				6						
			1900	*	C	9				9						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			8		8								

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Dil	Coke	Total	Coke	Tar	Ammonia	Other	
45	Marietta	" GL Co	1890	+	C	6				6					
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			6				6					
46	Marietta	" Gas Co	1890	+	W		4			4	M-C				
			1900	+	W		10			10	"				
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				7			7					
47	Massillon	" GL Co	1890	+	C	7				7					
			1900	+	C	10				10					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			9				9					
48	Mechanicsburg	" GL Co	1890	+	W		(2)				S-G				
			1900	+	W		1			1	Smith				
			1910	+	W		1			1					
			1920												
			1930												
			1940												
			1950												
			AVERAGES:				1			1					

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (PPH CU. FT./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
49	Middletown	" Gas Co	1890	*	C	8				8					
			1900	*	C	12				12					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			10				10					
50	Mt. Vernon	" B L & Coke Co	1890	*	C	12				12					
			1900	*	W		13			13					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			12	13			13					
51	Newark	" B L & Coke Co	1890	*	C	8				8					
			1900	*	C	10				10					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			9				9					
52	New Philadelphia	" B L & Coke Co	1890	*	C	2				2					
			1900	*	C	3				3					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			3				3					

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
53	Norwalk	* GL Co	1890	*	W			(9)			Lowe (F1)					
			1900	*	W			20		20	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					20		20						
54	Oberlin	* B & E Co	1890	*	C			2		2						
			1900	*	C			(6)								
			1910	*	C			22		22						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:					12		12						
55	Painesville	* GL Co	1890	*	C			6		6						
			1900	*	C			8		8						
			1910	*	C			20		20						
			1920	*	C			22		22						
			1930	P												
			1940	-												
			1950	-												
			AVERAGES:					14		14						
56	Piqua	* B L & Coke Co	1890	*	C			7		7						
			1900	*	C			10		10						
			1910	*	C, W			8		8	M-C					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:					8		8						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	PRODUCED Coal	Water	Oil	COKE Coke	COKE Total	PROCESS	Coke	Tar	Ammonia	Other	MISCELLANEOUS INFORMATION
57	Portsmouth	* B & E Co	1890	*	C	16				16						
			1900	*	C	20				20						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			18				18						
58	Ravenna	* B & E Co	1890	*	C	3				3						
			1900	*	C	5				5						
			1910	*	C	9				9						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			6				6						
59	Ripley	* GL & Coke Co	1890	*	C	1				1						
			1900	*	C	2				2						
			1910	*	C	1				1						
			1920	*	C	2				2						
			1930	X												
			1940	-												
			1950	-												
			AVERAGES:			2				2						
60	Sandusky	* GL Co	1890	*	W		20			20	Loomis					
			1900	*	W		20			20	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				20			20						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
61 Salem		* BL Co	1890	*	C	40				40					
			1900	*	C	12				12					
			1910	X											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			26				26					
62 Sidney		* BL Co	1890	*	C	(6)									
			1900	*	C	8				8					
			1910	N											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			8				8					
63 Springfield		* B L & Coke Co	1890	*	C	55				55					
			1900	*	C	60				60					
			1910	N											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			58				58					
64 Steubenville		* B & E Co	1890	*	C	22				22					
			1900	*	C	17				17					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			20				20					

CITY	FIRM	YEAR	STATUS	SRS TYPE	Coal	Nat'l	Oil	Coke	Total	PROCESS	Coke	Tar	Ammonia	Other	MISCELLANEOUS INFORMATION	
65 Tiffin	" GL Co	1890	*	W				10			10				N-C	
		1900	*	W				8			8					"
		1910	0													
		1920	0													
		1930	-													
		1940	-													
		1950	-													
		AVERAGES:							9			9				
66 Toledo	" B L & Coke Co	1890	*	W				100			100				Lowe	
		1900	*	W				200			200					"
		1910	*	C, W				133	133			266				"
		1920	P													
		1930	-													
		1940	-													
		1950	-													
		AVERAGES:							144	133		277				
67 Troy	" Gas Co	1890	*	C				1			1					
		1900	*	C				5			5					
		1910	*	C				5			5					
		1920	0													
		1930	0													
		1940	-													
		1950	-													
		AVERAGES:							4			4				
68 Upper Sandusky	" GL Co	1890	*	0				(5)							Van Sichel	
		1900	*	0				3			3					
		1910	0													
		1920	0													
		1930	-													
		1940	-													
		1950	-													
		AVERAGES:							3			3				

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
69 Urbana	" G L & Coke Co	1890	*	C	10				10						
		1900	*	C	8				8						
		1910	*	C	1				1						
		1920	0												
		1930	0												
		1940	-												
		1950	-												
		AVERAGES:			6				6						
70 Van Wert	" GL Co	1890	*	M		5			5	Lowe (S)					
		1900	*	M		50			50	"					
		1910	*	M		27			27	"					
		1920	*	M		27			27	"				9	
		1930	*	CW		29			29	"					
		1940	0												
		1950	0												
		AVERAGES:				28			28					9	
71 Wapakoneta	" GL Co	1890	*	0			(4)			Van Sickle					
		1900	*	0			2		2	" "					
		1910	0												
		1920	0												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:					2		2						
72 Warren	" GL Co	1890	*	C	9				9						
		1900	*	C	16				16						
		1910	*	C	40				40						
		1920	*	C	32				32		(0.3)	(-)			
		1930	0												
		1940	0												
		1950	-												
		AVERAGES:			24				24						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE		OIL	COKE	TOTAL	PROCESS	PRODUCTS				MISCELLANEOUS INFORMATION
						Coal	Water					Coke	Tar	Ammonia	Other	
73	Washington	" GL Co	1890	*	C	7				7						
			1900	*	C	10				10						
			1910	*	C	(8)										
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			9				9						
74	Wellsville	Valley Gas Co	1890	*	W			(5)			Low (M-C)					
			1900	*	W			7		7	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					7		7						
75	Waterville	" Gas Co	1890	*	?											
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
76	Wooster	" GL Co	1890	*	C	6				6						
			1900	*	C	8				8						
			1910	*	C	10				10						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			8				8						

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
77 Xenia		* GL Co	1890	*	C	(9)										
			1900	*	C	(10)										
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
78 Youngstown		* Gas Co	1890	*	C	(30)										
			1900	*	C	30				30						
			1910	*	C	52				52						
			1920	*	C	54				54		(1)	(-)	(-)		
			1930	*	C	24				24						
			1940	0												
			1950	0												
			AVERAGES:				40			40						
79 Zanesville		* GL Co	1890	*	C	33				33						
			1900	*	C	50				50						
			1910	*	C	26				26						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				36			36						
80 Bellevue		* Gas Co	1890													
			1900	*	W		10			10						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				10			10						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	Coal	Water	Oil	Coke	Total	PROCESS	Coke	Ter	Ammonia	Other	MISCELLANEOUS INFORMATION
81	Bucyrus	" Gas Co	1890													
			1900	W			10			10	Low (S)					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				10			10						
82	Clyde	" Gas Co	1890													
			1900	*	W		(3)				Low					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
83	Conneaut	" G L & Fuel Co	1890													
			1900	*	C		1			1	Low					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				1			1						
84	Lorain	" Gas Co	1890													
			1900	*	C		18			18						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				18			18						

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
77	Xenia	* GL Co	1890	*	C	(9)										
			1900	*	C	(10)										
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
78	Youngstown	* Gas Co	1890	*	C	(30)										
			1900	*	C	30				30						
			1910	*	C	52				52						
			1920	*	C	54				54		(1)	(-)	(-)		
			1930	*	C	24				24						
			1940	0												
			1950	0												
			AVERAGES:			40				40						
79	Zanesville	* GL Co	1890	*	C	33				33						
			1900	*	C	50				50						
			1910	*	C	26				26						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			36				36						
80	Bellevue	* Gas Co	1890													
			1900	*	W		10			10						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				10			10						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
81	Bucyrus	" Gas Co	1890													
			1900	W				10		10	Low (S)					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					10		10						
82	Clyde	" Gas Co	1890													
			1900	*	W			(3)			Low					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
83	Conneaut	" G L & Fuel Co	1890													
			1900	*	C			1		1	Low					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					1		1						
84	Lorain	" Gas Co	1890													
			1900	*	C			18		18						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					18		18						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OHIO

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION	
						Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia		Other
85	New Lisbon	" Gas Co	1890													
			1900	*	D			(5)								
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
86	Tiffin	" L & Fuel Co	1890													
			1900	*	W			50			50					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					50			50					
87	Wilmington	" B L & Coke Co	1890													
			1900	*	C			3			3					
			1910	*	C			10			10					
			1920	*	C			12			12					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					8			8					
88	Paulding	" B L & F Co	1890													
			1900													
			1910	*	W			3			3					
			1920	*	W			7			7					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					5			5					

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT. / YR)			SABIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil		Coke	Tar	Ammonia	Other	
89	Napoleon	Oino & L & Coke Co	1890										
			1900										
			1910										
			1920	*	C	85		85		(2)	(-)		
			1930	0									
			1940	0									
			1950	-									
			AVERAGES:			85		85					
90	Bryan	Oino & L & Cpke Co	1890										
			1900										
			1910										
			1920										
			1930	*	C, CW	68	64	132	Low				
			1940	0									
			1950	0									
			AVERAGES:			68	64	132					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OKLAHOMA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Oklahoma	* B&E Co	1890													
			1900	*	0			(10)			Kendall					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
2	Chickasha	* B&E Co	1890													
			1900													
			1910	*	C,W	11	11			22						
			1920	*	C,W	8	18			26		(1)				
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			10	15			24						
3	El Reno	* B&E Co	1890													
			1900													
			1910	*	C	15				15						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			15				15						
4	Enid	* E&B Co	1890													
			1900													
			1910	*	0			4		4						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:					4		4						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	McAlester	" BL Co	1898													
			1900													
			1910	#	C	15				15						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			15				15						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OREGON

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
1	Astoria	" GL Co	1890	*	C	3				3					
			1900	*	C	4				4					
			1910	*	W		8			8					
			1920	*	W		26			26					
			1930	*	W		28			28					
			1940	*	W		?								
			1950	0											
			AVERAGES:			4	21			14					
2	East Portland	" GL Co	1890	*	(12)										
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:												
3	Portland	" B Co	1890	*	C	(35)									
			1900	*	C	60				60					
			1910	*	D			818		818					
			1920	*	D			2,880		2,880					
			1930	*	D			4,437		4,437					
			1940	*	D			3,979		3,979		1,484		360 tons sulfur	
			1950	*	D			9,570		9,570	11	2,483		168 tons naphthalene	
			AVERAGES:			60		4,337		3,624	11	1,984			
4	Salem	" GL Co	1890	*	C	(12)									
			1900	*	C	(8)									
			1910	*	C	8				8					
			1920	*	C	27				27					
			1930	C											Cons. w/Portland
			1940	-											
			1950	-											
			AVERAGES:			18				18					

NO.	CITY	COMPANY	YEAR	STATUS	S&S TYPE	S&S PRODUCTION RATE (TNS. CWT. / YR.)			S&SIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Meter	Oil		Coke	Total	Coke	Ter	
5	Baker City	" B&E Co	1890											
			1900	+	C		3			3				
			1910	+	C		4			4				
			1920	+	C		4			4	(0.1)			
			1930	+	C		9			9	(0.2)	8		
			1940	0										
			1950	0										
			AVERAGES:				5			5		8		
6	Marshfield	The Coos Bay B&E Co	1890											
			1900											
			1910	+	0			5		5				
			1920	+	0			12		12				
			1930	+	0			10		10				
			1940	0										
			1950	0										
			AVERAGES:					9		9				
7	St John's	" G Co	1890											
			1900											
			1910	P										
			1920	0										
			1930	0										
			1940	-										
			1950	-										
			AVERAGES:											
8	Ashland	Oregon B&E Co	1890											
			1900											
			1910											
			1920	+	0			6		6	Str. Shot			
			1930	P										
			1940	0										
			1950	0										
			AVERAGES:					6		6				

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: OREGON

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Grant's Pass	Oregon G&E Co	1890													
			1900													
			1910													
			1920	*	O			4		4	Str. Shot					
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:					4		4						
10	Madford	Oregon G&E Co	1890													
			1900													
			1910													
			1920	*	O			12		12	Str. Shot					
			1930	*	CW,O		46	20		66						
			1940	O												
			1950	O												
			AVERAGES:				46	16		39						
11	Pendleton	Pacific Power & L Co	1890													
			1900													
			1910													
			1920	*	C		17			17				(0.3)		
			1930	*	C		26			26						
			1940	O												
			1950	O												
			AVERAGES:				22			22						
12	Roseburg	Oregon G&E Co	1890													
			1900													
			1910													
			1920	*	O			6		6	Str. Shot					
			1930	O												
			1940	O												
			1950	-												
			AVERAGES:					6		6						

NO.	CITY	COMPANY	YEAR	STATUS	WAS TYPE	Coal	Water	Oil	Coke	Total	PROCESS	Coke	Tar	Ammonia	Other	MISCELLANEOUS INFORMATION
13	Springfield	Mountain States	1890													
			1900													
			1910													
			1920	*	?		30			30						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				30			30						
14	Eugene	Northwest Cities & Co	1890													
			1900													
			1910													
			1920													
			1930	*	W		71			71	Young-Whitehall					
			1940	0												
			1950	0												
			AVERAGES:				71			71						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Allegheny City	" Gas Co	1890	*	W		75			75	Lowe (G)					
			1900	*	W		212			212	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				144			144						
2	Allentown	" Gas Co	1890	*	W		17			17	Lowe					
			1900	*	W		41			41	"					
			1910	*	W		112			112	"					
			1920	*	W		620			620	"				252	
			1930	*	W		927			927	"					
			1940	*	CW		1,143			1,143	"				148	
			1950	*	CW		1,538			1,538	"					
			AVERAGES:				628			628					200	
3	Altoona	" GL Co	1890	*	C		50			50	Lowe					
			1900	*	C, W		91			91	"					
			1910	*	C, W		150			150	"					
			1920	*	C, W		54			54	"					
			1930	0												
			1940	*	C, W		15	82		97	Lowe		1		16	
			1950	0												
			AVERAGES:				72	82		88			1		16	
4	Ardmore	Lower Merion Gas Co	1890	*	W		4			4	Cliff					
			1900	*	W		27			27	Lowe					
			1910	*	W		121			121	"					
			1920	*	W		461			461	"				250	
			1930	C												Cons. w/Phila. Elect. Co.
			1940	-												
			1950	-												
			AVERAGES:				153			153					250	

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)			GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil		Coke	Tar	Ammonia	Other	
5	Beaver Falls	" Gas Co	1890	*	W		14			14				M-C
			1900	*	W		12			12				"
			1910	0										
			1920	0										
			1930	-										
			1940	-										
			1950	-										
			AVERAGES:				13			13				
6	Bellefonte	" GL Co	1890	*	C	(4)								
			1900	0										
			1910	*	C	4				4				
			1920	*	C	4				4				
			1930	*	C, W	48				48				Lowe
			1940	*	CH		73			73				"
			1950	N										
			AVERAGES:			19	73			32				
7	Bethlehem	" Gas Co	1890	*	W		9			9				Lowe
			1900	*	W		30			30				"
			1910	*	W		60			60				"
			1920	*	W		225			225				"
			1930	0										
			1940	0										
			1950	-										
			AVERAGES:				81			81				
8	Bloomsburg	" Gas Co	1890	*	0			(5)						Patton
			1900	*	0			9		9				"
			1910	*	C	3				3				
			1920	*	C	14				14				
			1930	*	C	30				30				
			1940	0										
			1950	0										
			AVERAGES:			16		9		14				

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Braddock	" G & L Co	1890	*	C	12				12						
			1900	0												
			1910	*	C	2				2						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			7				7						
10	Bristol	" GL Co	1890	*	W			(7)								
			1900	*	W			10		10						
			1910	*	C	16				16						
			1920	*	C	37				37						
			1930	C												Cons. w/ Phila. Elect. Co.
			1940	-												
			1950	-												
			AVERAGES:			27	10			21						
11	Brownsville	" Gas Co	1890	*	0			2		2						
			1900	*	0			3		3						
			1910	X												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					3		3						
12	Carbondale	" Gas Co	1890	*	C	3				3						
			1900	*	C	3				3						
			1910	*	W	12				12	Lowe					
			1920	*	W	23				23	"					
			1930	*	W	38				38	"					
			1940	*	W	35				35	"					
			1950	*	W	63				63	"					
			AVERAGES:			25				25						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION		RATE (MM CU. FT./YR)			GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Meter	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Carlisle	" B & W Co	1890	*	W		7			7	Low					
			1900	*	W		6			6	"					
			1910	*	W		13			13	"					
			1920	*	W		13			13	"					
			1930	*	W		79			79	"					
			1940	0												
			1950	0												
	AVERAGES:					24			24							
14	Catasauqua	" G Co	1890	*	W		1			1	Low					
			1900	*	W		4			4	"					
			1910	*	W		10			10	"					
			1920	*	W		35			35	"					
			1930	0												
			1940	0												
			1950	-												
	AVERAGES:					13			13							
15	Chambersburg	" GL Co	1890	*	W		4			4	Low					
			1900	*	W		6			6	"					
			1910	*	W		22			22	"					
			1920	*	W		32			32	"			40		
			1930	*	W		67			67	"					
			1940	*	W		69			69	"					
			1950	*	W		124			124	"					
	AVERAGES:					46			46			40				
16	Chester	" Gas Co	1890	*	C	(20)										
			1900	*	C, W	40				40	Low					
			1910	*	W, Coke		18		342	360	"					
			1920	*	Coke				1,100	1,100						
			1930	C												
			1940	-												
			1950	-												
	AVERAGES:				40	18		721	500							
																Cons. w/ Phila. Elect. Co.

Cons. w/ Phila. Elect. Co.

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Clearfield	* GL Co	1890	*	C	(3)										
			1900	*	C	4				4						
			1910	*	C, W	3				3						
			1920	*	C, W, Coke	74	515		525	1,114						
			1930	*	C	26				26		(0.5)		24		
			1940	*	C, W	55	15			70		(2)		40		
			1950	0												
			AVERAGES:			32	265		525	243				32		
18	Coatsville	* Gas Co	1890	*	C	2				2	Low					
			1900	*	C, W	6				6	"					
			1910	*	C, W	15				15	"					
			1920	*	C, W	59				59	"					
			1930	C												Cons. w/ Phila. Elect. Co.
			1940	-												
			1950	-												
			AVERAGES:			21				21						
19	Columbia	* Gas Co	1890	*	W	(10)					Low					
			1900	*	W	4				4	"					
			1910	*	W	7				7	"					
			1920	*	W	32				32	"			11		
			1930	*	W	50				50	"					
			1940	0												
			1950	0												
			AVERAGES:				23			23				11		
20	Connellsville	* & New Haven G & W Co	1890	*	W		5			5	Low (M-C)					
			1900	*	W		3			3	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				4			4						

NO.	CITY	YEAR	STATUS	SRS TYPE	Coal	Water	Oil	Coke	Total	PROCESS	Coke	Tar	Ammonia	Other	MISCELLANEOUS INFORMATION
21	Corry														
		1890	*	W		(8)				Low	(M-C)				
		1900	*	W		10			10	"					
		1910	0												
		1920	0												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:				10			10						
22	Conshohocken														
		1890	*	W		6			6	Low					
		1900	*	W		6			6	"					
		1910	*	W		15			15	"					
		1920	C												Cons. w/ Phila. Elect. Co.
		1930	0												
		1940	-												
		1950	-												
		AVERAGES:				9			9						
23	Danville														
		1890	*	C		0			0						
		1900	*	C		4			4						
		1910	*	C		8			8						
		1920	*	C		16			16		(0.7)	(-)			
		1930	*	C		20			20						
		1940	0												
		1950	0												
		AVERAGES:				10			10						
24	Darby														
		1890	*	C		3			3						
		1900	*	C		16			16						
		1910	0												
		1920	0												
		1930	-												
		1940	-												
		1950	-												
		AVERAGES:				10			10						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
25	Downingtown	"	Gas Works	1890	*	W		(7)		Brooks					
				1900	*	W		15	15	"					
				1910	0										
				1920	0										
				1930	-										
				1940	-										
				1950	-										
				AVERAGES:			15		15						
26	Doylestown	"	Gas Co	1890	*	C		(3.5)							
				1900	*	C		2	2						
				1910	*	C		5	5						
				1920	C										Cons. w/Newton
				1930	-										
				1940	-										
				1950	-										
				AVERAGES:			4		4						
27	Easton	"	Gas Co	1890	*	C		(20)							
				1900	*	C		20	20						
				1910	*	W		100	100	Lowe					
				1920	*	W		193	193	"					
				1930	*	W		501	501	"					
				1940	*	W		599	599	"					
				1950	*	W		454	454	"					Plants in Allentown, Bethlehem & Easton
				AVERAGES:			20	369	311						
28	Erie	"	Gas Co	1890	*	C, W		35	35	Lowe (G)					
				1900	*	C, W		47	47	"					
				1910	*	C		22	22						
				1920	0										
				1930	0										
				1940	-										
				1950	-										
				AVERAGES:			35		35						

NO.	CITY	COMPANY	YEAR	STATUS	GAL	TYPE	COAL	WATER	WILL	LOWE	TOTAL	PROCESS	Coke	Tar	Ammonia	Other	MISCELLANEOUS INFORMATION
29	Franklin	" Gas Co	1890	*	W							Lowe (M-C)					
			1900	*	W							"					
			1910	0													
			1920	0													
			1930	-													
			1940	-													
			1950	-													
			AVERAGES:														
30	Freeport	" Gas Co	1890	*	?						(2)						
			1900	0													
			1910	0													
			1920	-													
			1930	-													
			1940	-													
			1950	-													
			AVERAGES:														
31	Gettysburg	" Gas Co	1890	*	C		3				3						
			1900	*	C		3				3						
			1910	*	W			8			8						
			1920	*	W			16			16			8			
			1930	*	CW			(5)									
			1940	0													
			1950	0													
			AVERAGES:														
							3	12			8			8			
32	Greensburg	" Gas Co	1890	*	W			4			4	Lowe (M-C)					
			1900	*	W			?									
			1910	0													
			1920	0													
			1930	-													
			1940	-													
			1950	-													
			AVERAGES:														
								4			4						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
33	Greenville	" Gas Co	1890	*	C	(4.5)										
			1900	*	C	8				8						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			8				8						
34	Girardville	" Gas Co	1890	*	W		1			1	Low					
			1900	*	W		1			1	"					
			1910	*	W		1			1	"					
			1920	*	W		20			20	"					
			1930	*	W		30			30	"					
			1940	-												
			1950	-												
			AVERAGES:				11			11						
35	Hanover	" Gas Co	1890	*	C	2				2						
			1900	*	C	4				4						
			1910	*	C	7										
			1920	*	C	39				39				16		
			1930	*	C	69				69				23		
			1940	N												
			1950	N												
			AVERAGES:			29				29						
36	Harrisburg	" Gas Co	1890	*	W		38			38	Low					
			1900	*	W		74			74	"					
			1910	*	W		219			219	"					
			1920	*	W		60			60	"					
			1930	*	CW		4			4	"					
			1940	*	CW		2			2	"					
			1950	*	CW		235			235	"					
			AVERAGES:				90			90						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
37	Harrisburg	People's G & Gaseous Fuel	1890	*	W				(40)		Lowe					
			1900	C												Cons. w/Harrisburg G Co
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
38	Hazleton	" Gas Co	1890	*	W			5		5	Lowe					
			1900	*	W			2		2	"					
			1910	0	W			3		3	"					
			1920	*	W			4		4	"					
			1930	*	W			83		83	"					
			1940	0												
			1950	0												
			AVERAGES:					19		19						
39	Hollidaysburg	" W & G Co	1890	*	C			(4)								
			1900	*	W			7		7	Sutherland					
			1910	P												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					7		7						
40	Honesdale	" Gas Co	1890	*	W			(7)			Lowe (G)					
			1900	*	W			7		7	"					
			1910	*	W			6		6	"					
			1920	*	W			8		8	"					
			1930	*	W			14		14	"					
			1940	0												
			1950	0												
			AVERAGES:					9		9						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
41	Huntingdon	* Gas Co	1890	*	W		5			5	Lowe					
			1900	*	W		6			6	"					
			1910	*	W		6			6	"					
			1920	*	W		22			22	"					
			1930	*	W		30			30	"				6	
			1940	O												
			1950	O												
			AVERAGES:				14			14					6	
42	Indiana	* GL Co	1890	*	W		4			4	Lowe (M-C)					
			1900	O												
			1910	O												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				4			4						
43	Jersey Shore	* Gas Works	1890	*	O			1		1	Patton					
			1900	*	O			(2)			"					
			1910	*	W		6			6	Lowe					
			1920	*	W		9			9	"					
			1930	*	W		14			14	"					
			1940	*	W		12			12	"					
			1950	N												
			AVERAGES:				10	1		8						
44	Johnstown	* W & G Co	1890	*	C, W		30			30	Lowe (G)					
			1900	*	C, W		52			52	"					
			1910	*	C, W		101	6		107	"					
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:				61	6		63						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM CU. FT. / YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
45	Kittanning	" Gas Co	1890	*	C	1				1						
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			1				1						
46	Lancaster	" G L & Fuel Co	1890	*	C	50				50						
			1900	*	W		75			75	Low					
			1910	*	W		140			140	"					
			1920	*	W		340			340	"			(7)		
			1930	*	W		573			573	"					
			1940	0												
			1950	*	W		958			958						
			AVERAGES:			50	417			356						
47	Latrobe	" Gas Co	1890	*	0			(6)								
			1900	*	0			4		4	J-L					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					4		4						
48	Lebanon	" Gas Co	1890	*	C	8				8						
			1900	*	C	13				13						
			1910	*	C	22				22						
			1920	*	C	67				67		(3)	(-)			
			1930	P												
			1940	P												
			1950	-												
			AVERAGES:			28				28						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
49	Lewisburg	" Gas Works	1890	*	C	(4)										
			1900	0												
			1910	*	C		7			7						
			1920	*	C		6			6						
			1930	*	W			13		13						
			1940	*	W			15		15						
			1950	0												
			AVERAGES:				7	14		10						
50	Lewistown	" GL Co	1890	*	W		(4)									
			1900	*	W		(4)									
			1910	*	W		8		8							
			1920	*	W		43		43							
			1930	*	CW		83		83							
			1940	0												
			1950	*	CW		147		147							
			AVERAGES:				70		70							
51	Lock Haven	" Gas Co	1890	*	C		6			6						
			1900	*	C		2			2						
			1910	*	C		4			4						
			1920	*	C		6			6						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				5		5							
52	McKeesport	" Gas Co	1890	*	C		12			12						
			1900	*	Coke				12	12						
			1910	*	C		85			85						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				49		12	36						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	Coal	Water	Oil	Coke	Total	PROCESS	Coke	Tar	Ammonia	Other	MISCELLANEOUS INFORMATION
53	Mahanoy City	Mahanoy City Gas Co	1890	*	W		(10)				Low					
			1900	*	W		3			3	"					
			1910	*	W		6			6	"					
			1920	0												
			1930	0												
			1940	*	CW		17			17	Low					
			1950	*	CW		18			18	"					
			AVERAGES:				11			11						
54	Mauch Chunk	City Gas Co	1890	*	W		5			5	Low (G)					
			1900	*	W		3			3	"					
			1910	*	W		5			5	"					
			1920	*	W		12			12	"		(0.2)			
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:				6			6						
55	Meadville	G & W Co	1890	*	W		10			10	Low (M-C)					
			1900	*	W		10			10	"					
			1910	*	W		10			10	"					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				10			10						
56	Mechanicsburg	G & W Co	1890	*	C		(4)									
			1900	*	O			3		3	J-L					
			1910	*	W		6			6	Low					
			1920	*	W		6			6	"					
			1930	*	W		18			18	"					
			1940	0												
			1950	0												
			AVERAGES:				10	3		8						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
57	Media	" B L Co	1890	*	C	6				6						
			1900	*	W		4			4	Lowe					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			6	4			5						
58	Middletown	" GL Co	1890	*	W			2		2	Flannery					
			1900	*	W			4		4	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				3			3						
59	Milton	" GL Co	1890	*	C	4				4						
			1900	*	C	6				6						
			1910	*	C	15				15						
			1920	*	C, W	36	40			76		(1)	24			
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			15	40			25						
60	Monogahela City	" Gas Co	1890	*	C	3				3						
			1900	*	C	2				2						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			3				3						

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
65	Norristown	* Gas Co	1890	*	C	(20)									
			1900	*	C,W	25				25	Low				
			1910	*	C,W	42	42			84	"				
			1920	*	C,W	207				207	"			90	
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:			91	42			105				90	
66	Oil City	* Gas Co	1890	*	?					(10)					
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:												
67	Orwingsburg	* Gas Co	1890	*	?					(1)					
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:												
68	Philadelphia	* Gas Works	1890	*	C	2				2					
			1900	*	C,W	250				250					
			1910	*	C,W	5,000				5,000				10,300	
			1920	*	C,W	15,600				15,600					
			1930	*	C,W		15,074			15,074		61	10,400	326	
			1940	*	C,W	926	10,639			11,565		46	13,785		
			1950	*	CW		29,241			29,241			4,105		
			AVERAGES:			4,356	18,318			10,962		54	9,648	326	

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
69	Philadelphia	Northern Liberties & Co	1890	*	C	90				90					
			1900	0											
			1910	*	C	173			173						
			1920	*	C	210			210	14	296	78			
			1930	*	W,Coke	5,440		?	5,440	116	2,086	887	Phila. Electric Co.:Plants in		
			1940	*	W,Coke	5,887		?	5,887				West Conshohocken,Pottstown,		
			1950	0									Oreland,Bristol,Chester(coke)		
			AVERAGES:			158	5,664		2,360	65	1,191	483	Purch.3200 MM cu.ft.coke gas		
70	Philadelphia	Manay. Gas L Co	1890	*	W		10		10	Lowe					
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			10		10							
71	Phillipsburg	E.L., G L Co	1890	*	?					(5)					
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:												
72	Phoenixville	" G, L & F Co	1890	*	W		3		3	Lowe					
			1900	*	W		12		12	"					
			1910	*	W		28		28	"					
			1920	*	W		61		61	"		15			
			1930	C									Cons. w/Phila. Electric Co.		
			1940	-											
			1950	-											
			AVERAGES:			26		26			15				

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia	
73	Pittsburgh	Consolidated Gas Co	1890	*	W		50		50	Flannery				
			1900	*	W		433		433	"				
			1910	*	W		378		378	Lowe				
			1920	X										
			1930	-										
			1940	-										
			1950	-										
			AVERAGES:				287		287					
74	Pittsburgh	East End Gas Co	1890	*	W		100		100					
			1900	0										
			1910	0										
			1920	-										
			1930	-										
			1940	-										
			1950	-										
			AVERAGES:				100		100					
75	Pittsburgh	" Gas Co	1890	*	W		330		330	Lowe (G), F1				
			1900	0										
			1910	0										
			1920	-										
			1930	-										
			1940	-										
			1950	-										
			AVERAGES:				330		330					
76	Pittsburgh	South End Gas Co	1890	*	W		50		50					
			1900	*	W		29		29					
			1910	*	C, W		5	1	6					
			1920	X										
			1930	-										
			1940	-										
			1950	-										
			AVERAGES:				28	1	28					

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
77	Pittsburgh	West Pittsburgh Gas Co	1890	*	W			14		14	Lowe (M-C)				
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:					14		14					
78	Pittston	" GL Co	1890	*	W			7		7	Lowe (G)				
			1900	*	W			15		15	"				
			1910	*	W			29		29	"				
			1920	*	W			66		66	"				
			1930	*	W			83		83	"				54
			1940	*	W			67		67	"				
			1950	*	W			95		95	"				
			AVERAGES:					52		52	"				54
79	Plymouth	" L H & P Co	1890	*	0			(11)			Patton				
			1900	*	0			5		5	"				
			1910	*	W			67		67	Lowe				
			1920	*	W			?			"				
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:					67	5	36					
80	Pottstown	" Gas Co	1890	*	0			7		7					
			1900	*	0			8		8					
			1910	*	0			27		27					
			1920	*	0			28		28					60
			1930	C											
			1940	-											Cons. w/Phila. Electric Co.
			1950	-											
			AVERAGES:					18		18					60

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
81	Pottsville	" Gas Co	1890	*	W			13		13	Lowe					
			1900	*	W			15		15	"					
			1910	*	W			38		38	"					
			1920	*	W			40		40	"					
			1930	*	W			100		100	"				26	
			1940	*	W			92		92	"					
			1950	*	W			146		146	"					
			AVERAGES:					63		63					26	
82	Reading	Consumer's Gas Co	1890	*	W			50		50	H-L					
			1900	*	W			110		110	"					
			1910	*	W			270		270	"					
			1920	*	W			590		590	"					
			1930	*	CW			1,305		1,305	Lowe				952	
			1940	*	CW			1		1	"					Most gas purchased
			1950	P												
			AVERAGES:					388		388					952	
83	Royersford	Spring City Gas Co	1890	*	O				2	2						
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:						2	2						
84	Schuylkin Haven	" G & W Co	1890	*	W			20		20	Lowe					
			1900	*	W			3		3	"					
			1910	*	W			7		7	"					
			1920	P												
			1930	*	CW			12		12	Lowe					
			1940	*	CW			13		13	"					
			1950	*	CW			23		23	"					
			AVERAGES:					13		13						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
85	Scranton	" G & W Co	1890	*	W										
			1900	0											
			1910	0											
			1920	-											
			1930	*	CW		1,025			1,025	Lowe			371	
			1940	*	CW		857			857	"				
			1950	C											
			AVERAGES:				941			941				371	Cons. w/Wilkes Barre
86	Sewickley	" GL Co	1890	*	0			5		5					
			1900	*	C		4			4					
			1910	*	W		2			2	Lowe (M-C)				
			1920	0											
			1930	0											
			1940	-											
			1950	-											
			AVERAGES:			4	2	5		4					
87	Shamokin	" GL Co	1890	*	0			2		2	Patton				
			1900	*	0			3		3	J-L				
			1910	*	0			5		5	"				
			1920	*	0			15		15	"				
			1930	*	W				74	74					
			1940	0											
			1950	0											
			AVERAGES:					6	74	20					
88	Sharon	" G & W Co	1890	*	W		?				Lowe (M-C)				
			1900	*	W		2			2	"				
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				2			2					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
89	Sharpsburg		*	C											
90	Shenandoah		*	D						J-L					
91	Shippensburg		*	W											
92	South Bethlehem		*	W											

Sold to Wyandotte (Bethlehem)

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
93	Stroudsburg	"	GL Co	1890	*	O			(2)		Van Sickle				
				1900	*	W		5		5	Lowe(UGI)				
				1910	*	W		8		8	"				
				1920	*	W		17		17	"				
				1930	*	CW		61		61	"				
				1940	*	CW		63		63	"				
				1950	N										
				AVERAGES:				31		31					
94	Sunbury	"	GL Co	1890	*	W			(6)						
				1900	*	W			(10)						
				1910	*	W		24		24					
				1920	*	W		76		76					
				1930	*	W		133		133					
				1940	O										
				1950	O										
				AVERAGES:				78		78					
95	Tamaqua	"	Citizen's G L Co	1890	*	W			(7)		Lowe				
				1900	*	W		2		2	"				
				1910	*	W		2		2	"				
				1920	*	W		7		7	"				
				1930	*	W		17		17	"				
				1940	O										
				1950	O										
				AVERAGES:				7		7					
96	Titusville	"	Gas Co	1890	*	W		10		10	Lowe(M-C)				
				1900	*	W		6		6	"				
				1910	O										
				1920	O										
				1930	-										
				1940	-										
				1950	-										
				AVERAGES:				8		8					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
97	Towanda	* Gas Co	1890	*	C	(5)										
			1900	*	C	4				4						
			1910	*	C	4				4						
			1920	*	C	6				6						
			1930	*	C	14				14						
			1940	*	C	9				9		1		9		
			1950	N												
			AVERAGES:			7				7		1		9		
98	Tidioute	* GL Co	1890	*	O			(2)								
			1900	*	O			(2)								
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
99	Tremont	* W & G Co	1890	*	?											Under construction
			1900	O												
			1910	O												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
100	Tyrone	* G & W Co	1890	*	C	3				3						
			1900	*	C	4				4						
			1910	*	C	6				6						
			1920	*	C	6				6						
			1930	*	C	25				25						
			1940	O												
			1950	O												
			AVERAGES:			9				9						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./yr)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
101	Uniontown	" L & Heat Co	1890	*	W			(8)			M-C					
			1900	*	W			6		6	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					6		6						
102	Warren	" GL Co	1890	*	W			10		10	M-C					
			1900	*	W			1		1	"					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					6		6						
103	Washington	" Gas Co	1890	*	C			(10)								
			1900	*	C			(10)								
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
104	Waynesboro	" GL Co	1890	*	W			0		0	Low					
			1900	*	W			3		3	"					
			1910	*	W			12		12	"					
			1920	*	W			27		27	"					
			1930	*	W			50		50	"					
			1940	*	W			54		54	"					
			1950	N												
			AVERAGES:					24		24						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
105	Westchester	" Gas Co	1890	*	C	(9)									
			1900	*	W		17			17					
			1910	*	W		40			40					
			1920	*	W		82			82				26	
			1930	C											
			1940	-											
			1950	-											
			AVERAGES:				46			46				26	Cons. w/Phila. Electric Co.
106	Wilkes Barre	" Gas Co	1890	*	W		30			30					
			1900	*	W		100			100					
			1910	*	W		187			187					
			1920	*	W		300			300					
			1930	*	CW		432			432					
			1940	O			1,140			1,140					
			1950	*	W										
			AVERAGES:				365			365					
107	Williamsport	" Gas Co	1890	*	W		24			24					
			1900	*	W		35			35					
			1910	*	W		80			80					
			1920	*	W		260			260				52	
			1930	*	W		440			440					
			1940	O											
			1950	O											
			AVERAGES:				168			168					
108	York	" Gas Co	1890	*	W		11			11					
			1900	*	W		45			45					
			1910	*	W		110			110					
			1920	*	W		246			246				123	
			1930	*	CW		585			585				294	
			1940	*	W		639			639					
			1950	*	W		871			871					
			AVERAGES:				358			358					

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)				BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
109	Ardmore	People G Co of De. City	1890												
			1900	*	?										
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:												
110	Ashland	" GL Co	1890												
			1900	*	0			(7)			J-L				
			1910	*	0			4		4	"				
			1920	*	W		3			3					
			1930	*	CW		5			5					
			1940	*	CW		11			11					
			1950	N											
			AVERAGES:				6	4		6					
111	Athens	" & Sayre G Co	1890												
			1900	*	W		(18)				Lowe				
			1910	0											
			1920	*	W		50			50	Lowe		24		
			1930	*	CW		97			97	"				
			1940	*	W		108			108	"				
			1950	0											
			AVERAGES:				85			85			24		
112	Hyde Park	" Nat. Gas Co	1890												
			1900	*	W		400			400					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				400			400					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION	
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia		Other
113	Kingston	West Side Gas Co	1890												
			1900	*	W		3		3					Lowe	
			1910	0											
			1920	0											
			1930	*	W		135		135					Lowe	95
			1940	*	CW		219		219					"	
			1950	*	CW		401		401					"	
			AVERAGES:				190		190					95	
114	Swarthmore	College Gas Works	1890												
			1900	*	C		5		5						
			1910	*	C		?								
			1920	0											
			1930	0											
			1940	-											
			1950	-											
			AVERAGES:				5		5						
115	Wyncote	Jerkintown & Chettenham	1890												
			1900	*	W		6		6						
			1910	C											Cons. w/Jerkintown
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				6		6						
116	Avondale	Kennett Gas Co	1890												
			1900												
			1910	*	D		5		5					J-L	
			1920	*	W		11		11					Lowe	
			1930	*	W		10		10					"	
			1940	P											
			1950	0											
			AVERAGES:				11	5		9					

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: PENNSYLVANIA

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
121	Elizabethtown	Marietta & Eliz. Gas Co	1890												
			1900												
			1910	*	W		4		4	Lowe					
			1920	*	W		7		7	"					
			1930	*	W		3		3	"					
			1940	*	CM		20		20						
			1950	0											
			AVERAGES:				9		9						
122	Hamburg	" Gas Co	1890												
			1900												
			1910	*	W		4		4	Lowe (Su)					
			1920	*	W		?			"					
			1930	*	W		3		3						
			1940	0											
			1950	0											
			AVERAGES:				4		4						
123	Jenkintown	Phila. Sub. G & E Co	1890												
			1900												
			1910	*	W		73		73	Lowe					
			1920	0						"			(5)		
			1930	*	W		275		275						Cons. w/Phila.Electric Co.
			1940	C											
			1950	-											
			AVERAGES:				174		174						
124	Lititz	", Manheim & Ephrata G Co	1890												
			1900												
			1910	*	W		5		5	Lowe					
			1920	*	W		10		10	"					
			1930	*	W		24		24	"					
			1940	0											
			1950	0											
			AVERAGES:				13		13						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Bristol	Bristol County G & E Co	1890	*	C	(6)										
			1900	*	C,W	10				10	Lowe					
			1910	*	C,W	14				14	"					
			1920	P												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			12				12						
2	Newport	" GL Co	1890	*	C,W	38				38						
			1900	*	C,W	60				60						
			1910	*	C,W	95				95						
			1920	*	C,W	105				105						
			1930	*	?											
			1940	*	W		269			269				163		
			1950	*	W		447			447						
			AVERAGES:			75	358			169				163		
3	Pawtucket	" Gas Co	1890	*	C	75				75						
			1900	*	C,W	14				14	Lowe					
			1910	*	C,W	125	125			250	"					
			1920	*	C,W	253	511			764	"	(10)	(11)	(-)		
			1930	*	C,W	916	552			1,468	"	(10)	1,410			
			1940	*	C,W	1,006	269			1,275	"	(20)	1,136			
			1950	*	C,W	121	1,900			2,021	"	5	1,414			
			AVERAGES:			359	671			838		5	1,320			
4	Providence	" Gas Co	1890	*	C,W	458				458	Lowe					
			1900	*	C,W	710				710	"					
			1910	*	C,W	1,200				1,200	"					
			1920	*	C,W	1,135	1,135			2,270	"					
			1930	*	W,Coke		699		2,836	3,535	"	(4)	2,156		4,600,000,000 lbs sulfate	
			1940	*	CW,Coke		55		3,972	4,027	"					
			1950	*	W,Coke		525		3,906	4,431	"		2,586	317		
			AVERAGES:			876	604		3,571	2,376			2,371	317		

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: RHODE ISLAND

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Warren	" Gas Co	1890	*	C	3				3						
			1900	C												Cons. w/Bristol
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			3				3						
6	Westerly	" G & EL Co	1890	*	C	4				4						
			1900	*	C, W	4				4	Low					
			1910	*	C, W	12				12	"					
			1920	*	C, W	31				31	"					
			1930	*	W		82			82	"					
			1940	*	CW		80			80	"					
			1950	*	CW		136			136	"					
			AVERAGES:			13	99			50						
7	Woonsocket	" Gas Co	1890	*	W		30			30	Low (G)					
			1900	*	W		34			34	"					
			1910	*	W		50			50	"					
			1920	P												
			1930	P												
			1940	-												
			1950	-												
			AVERAGES:				38			38						

[illegible]

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: SOUTH CAROLINA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Dil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Greenville	* G&L Co	1890	*	C, W	(10)					Lowe					
			1900	*	C, W	6				6	"					
			1910	*	C, W	17				17	"					
			1920	*	C, W	34				34	"					
			1930	*	C, W	165	6			171	"					
			1940	0												
			1950	*	C, W	310				310	Lowe					
			AVERAGES:			106	6			108						
6	Spartanburg	* G&L P Co	1890	*	C	(6)										
			1900	*	C	(15)										
			1910	*	C	12				12						
			1920	*	C	55				55						
			1930	*	C	99				99		(2)		95		
			1940	0												
			1950	*												
			AVERAGES:			55				55				95		
7	Anderson	* G Co	1890													
			1900													
			1910	*	W		?									Under construction
			1920	*	W		15			15						
			1930	*	CW		33			33				16		
			1940	*	CW		34			34				15		
			1950	N												
			AVERAGES:				27			27				16		
8	Sumter	* G&L Co	1890													
			1900													
			1910	*	W		?									
			1920	*	W		31			31				(2)		
			1930	*	CW		33			33				13		
			1940	*	CW		39			39				13		
			1950	*	CW		74			74						
			AVERAGES:				44			44				13		

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Florence	" G Co	1890													
			1900													
			1910													
			1920	*	CW		20			20						
			1930	*	CW		(18)									
			1940	0												
			1950	0												
			AVERAGES:				20			20						
10	Rockhill	" G Co	1890													
			1900													
			1910													
			1920	*	W		18			18						
			1930	0												
			1940	*	CW		24			24						
			1950	0												
			AVERAGES:				21			21						
11	Greenwood	G&F Co	1890													
			1900													
			1910													
			1920													
			1930	*	CW		2			2						
			1940	*	CW		15			15						
			1950	N												
			AVERAGES:				9			9						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: SOUTH DAKOTA

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Aberdeen	" L & Fuel Co	1890	*	W			(8)			Lowe (S)					
			1900	*	W			6		6						
			1910	*	W			40		40						
			1920	*	W			57		57						
			1930	*	W			?								
			1940	*	CW			97		97						
			1950	N												
			AVERAGES:					50		50						
2	Pierre	" G & Fuel Co	1890	*	W			58		58	Lowe (S)					
			1900	*	W			5		5						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					32		32						
3	Rapid City	" G & E Co	1890	*	C			(3.5)								
			1900	0												
			1910	*	C			5		5						
			1920	*	C			8		8						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					7		7						
4	Sioux Falls	" GL Co	1890	*	W			10		10	Lowe (S)					
			1900	*	W			17		17						
			1910	*	W			51		51						
			1920	*	W			157		157						
			1930	*	CW			212		212						
			1940	N												
			1950	N												
			AVERAGES:					89		89						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Watertown	" Heating P & L Co	1890	*	?											
			1900	0												
			1910	0												
			1920	*	W		17			17	Tenney					
			1930	*	W		31			31	"					
			1940	*	CW		29			29	"					
			1950	N												
			AVERAGES:				26			26						
6	Yankton	" G & E Co	1890													
			1900	*	?											
			1910	0												
			1920	*	W		6			6	Tenney					
			1930	*	W		14			14	"					
			1940	*	W		20			20	"					
			1950	N												
			AVERAGES:				13			13						
7	Deadwood	Lead-Deadwood GL & F Co	1890													
			1900													
			1910	*	W		30			30	Tenney					
			1920	*	C, W	10	10			20	"					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			10	20			25						
8	Dell Rapids	" City Gas Works	1890													
			1900													
			1910	*	W		8			8	Tenney					
			1920	*	W		8			8	"					
			1930	*	CW		4			4	"					
			1940	0												
			1950	0												
			AVERAGES:				7			7						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: SOUTH DAKOTA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	De Smet	" Gas Plant	1890													
			1900													
			1910	*	O			2		2						
			1920	O												
			1930	O												
			1940	-												
			1950													
			AVERAGES:					2		2						
10	Huron	" L & P Co	1890													
			1900													
			1910	*	W			8		8	Low					
			1920	*	W			26		26	"					
			1930	*	W			61		61	"					
			1940	*	W			71		71	"					
			1950	N												
			AVERAGES:					42		42						
11	Mitchell	" P Co	1890													
			1900													
			1910	*	W			(10)			Low					
			1920	*	W			26		26	"					
			1930	*	W			41		41	"					
			1940	*	W			64		64	"					
			1950	*	W			105		105	"					
			AVERAGES:					59		59						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Brownsville	Gas, Coal & Coke Co	1890	*	C	(2.5)										
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
2	Chattanooga	" GL Co	1890	*	C	50				50						
			1900	*	C	45				45						
			1910	*	C	139				139						
			1920	P												
			1930	P												
			1940	P												
			1950	-												
			AVERAGES:			78				78						
3	Clarksville	" GL Co	1890	*	C	3				3						
			1900	*	C	8				8						
			1910	*	C	9				9						
			1920	*	C	7				7						
			1930	*	C	16				16		1	16			
			1940	O												
			1950	O												
			AVERAGES:			9				9		1	16			
4	Columbia	" G Co	1890	*	W	(3)										
			1900	*	W	0				0						
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			0				0						

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: TENNESSEE

[illegible]

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: TENNESSE

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Bristol	" G&E Co	1890													
			1900	*	C	3				3						
			1910	*	C	14				14						
			1920	*	C	25				25						
			1930	*	C	92				92		(2)	77			
			1940	N												
			1950	N												
			AVERAGES:			34				34					77	
14	Gallatin	" GL Co	1890													
			1900	*	?											
			1910	N												
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:													
15	Johnson City	Washington County G Co	1890													
			1900													
			1910													
			1920	*	C,W	14	5			19		1	15			
			1930	*	C, CW	69	216			285		3	61			
			1940	*	C	86				86		(2)	(-)			
			1950	N												
			AVERAGES:			56	111			130		2	38			

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Austin	" GL & Coal Co	1890	*	C	(16)									
			1900	X											
			1910	-											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:												
2	Austin	Capital GL Co	1890	*	W		20			20					
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:												
						20			20						
3	Brenham	" G Co	1890	*	W	(8)									
			1900	0											
			1910	0											
			1920	*	W		8			8					
			1930	0											
			1940	0											
			1950	-											
			AVERAGES:												
						8			8						
4	Colorado	" GL Co	1890	*	?					(4)					
			1900	0											
			1910	0											
			1920	-											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:												

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: TEXAS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Corsicana	" GL Co	1890	*	W			4		4	Van Steenburg					
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					4		4						
6	Dallas	Dallas City GL Co	1890	*	C	40				40	Lowe					
			1900	*	C,W	35				35						
			1910	*	C,W	80	80			160						
			1920	N												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			52	80			78						
7	Denison	" L&P Co	1890	*	C	(17)										
			1900	*	C	1				1						
			1910	*	C	20				20						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			11				11						
8	El Paso	" B,Coal,&Coke Co	1890	*	C	(10)					Lowe					
			1900	*	C	12				12						
			1910	*	C,W	34	66			100						
			1920	*	C,W	128	223			351		7		140		
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:			58	145			154		7		140		

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Fort Worth	" L&P Co	1890	*	C	(30)										
			1900	*	C	25				25						
			1910	*	C	88				88						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			57				57						
10	Gainesville	" L&F Co	1890	*	C	(10)										
			1900	*	C	5				5						
			1910	*	W		13			13	Lowe					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			5	13			9						
11	Galveston	" G Co	1890	*	C	25				25						
			1900	*	C	30				30						
			1910	*	C	51				51	Lowe					
			1920	*	C	171				171	"					
			1930	N												
			1940	N												
			1950	N												
			AVERAGES:			69				69						
12	Houston	" GL Co	1890	*	C	(40)										
			1900	*	C	30				30						
			1910	*	W		235			235	Lowe					
			1920	*	W		870			870	"			144		
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			30	553			378						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: TEXAS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Jefferson	" GL Co	1890	*	D			(4)								Oil and wood feedstock
			1900	0												
			1910	0												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
14	Marshall	" L&P Co	1890	*	W			3		3	Sutherland					
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					3		3						
15	Paris	" G&EL Co	1890	*	C			1		1						
			1900	*	C			3		3						
			1910	*	C			8		8						
			1920	*	C			30		30						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					11		11						
16	San Antonio	" B Co	1890	*	C			24		24						
			1900	*	C			17		17						
			1910	*	C, W			113		113	LOWE					
			1920	*	C, W			728		728	"					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					221		221						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Sherman	" GL Co	1890	*	C	10				10						
			1900	*	C	10				10						
			1910	*	C	32				32						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:			17				17						
18	Waco	" G Co	1890	*	C	(25)										
			1900	*	C	15				15						
			1910	*	C	30				30						
			1920	N												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			23				23						
19	Austin	" G Co	1890													
			1900	*	C	15				15						
			1910	*	W		52			52	Low					
			1920	*	W		125			125	"					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			15	89			64						
20	Abilene	" GLF&P Co	1890													
			1900													
			1910	*	W		10			10	Low					
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				10			10						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: TEXAS

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
21	Amarillo	" B Co	1890												
			1900												
			1910	*	W		17			17					Lowe
			1920	N											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:				17			17					
22	Beaumont	" G Co	1890												
			1900												
			1910	*	W		35			35					Lowe
			1920	*	W		166			166					"
			1930	O											
			1940	O											
			1950	-											
			AVERAGES:				101			101					
23	Brownwood	" G&E Co	1890												
			1900												
			1910	*	O			?							Beal's
			1920	*	O			20		20					"
			1930	O											
			1940	O											
			1950	-											
			AVERAGES:					20		20					Under construction
24	Cleburne	" E&B Co	1890												
			1900												
			1910	*	C		7			7					
			1920	*	C		18			18					
			1930	O											
			1940	O											
			1950	-											
			AVERAGES:				13			13					

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					SABIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
25	Palestine	"	LH&P Co	1890											
				1900											
				1910	*	W		20		20		Lowe			
				1920	*	W		20		20		"			
				1930	0										
				1940	0										
				1950	-										
				AVERAGES:				20		20					
26	San Angelo	"	G Co	1890											
				1900											
				1910	*	0		11		11		Beal's			
				1920	*	0		9		9		"			
				1930	0										
				1940	0										
				1950	-										
				AVERAGES:				10		10					
27	Corpus Christi	"	G Co	1890											
				1900											
				1910											
				1920	*	W		20		20		Lowe			
				1930	0										
				1940	0										
				1950	-										
				AVERAGES:				20		20					
28	Greenville	"	G Co	1890											
				1900											
				1910											
				1920	*	C,W	24		24		1	100			
				1930	0										
				1940	0										
				1950	-										
				AVERAGES:			24		24		1	100			

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: TEXAS

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
29	Port Arthur	" G&P Co	1890													
			1900													
			1910													
			1920	*	C,O	70		10		80						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			70		10		80						
30	Temple	" G.L. Co	1890													
			1900													
			1910													
			1920	*	W			31		31	Lowe					
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					31		31						
31	Tyler	" G Co	1890													
			1900													
			1910													
			1920	*	W			9		9						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					9		9						
32	Waxahachie	" G Co	1890													
			1900													
			1910													
			1920	*	W			15		15						
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					15		15						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Ogden	" L & Fuel Co	1890	*	C	18				18						
			1900	0												
			1910	*	C	7				7						
			1920	0												
			1930													
			1940													
			1950													
			AVERAGES:			13				13						
2	Salt Lake City	" Gas Co	1890	*	C,W	35				35						
			1900	*	C,W	72				72						
			1910	*	C,W	256	19			275	Lowe					
			1920	*	C,W	325	153			478	"					
			1930	N												
			1940	-												
			1950	-												
			AVERAGES:			172	86			215						
3	Provo	Utah Valley G & Coke Co	1890													
			1900													
			1910													
			1920	*	C	26				26		(1)	(1)			
			1930	P												
			1940	-												
			1950	-												
			AVERAGES:			26				26						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: VERMONT

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Brattleboro	* B L Co	1890	*	W		6			6	Lowe					
			1900	*	W		5			5	"					
			1910	*	W		15			15	"					
			1920	*	W		24			24	"					
			1930	*	W		41			41	"					
			1940	0												
			1950	0												
			AVERAGES:				18			18						
2	Burlington	* B L Co	1890	*	W		10			10	Lowe					
			1900	*	W		20			20	"					
			1910	*	W		65			65	"					
			1920	*	W		117			117	"				80	
			1930	*	W		197			197	"					
			1940	*	CW		178			178	"					
			1950	*	CW		314			314	"					
			AVERAGES:				129			129					80	
3	Montpelier	* B L Co	1890	*	C,W	(3)					Lowe (M-C)					
			1900	*	C,W	4				4						
			1910	*	C,W	16				16						
			1920	*	C,W	24				24		1		30		
			1930	*	C	37				37		(2)		25		
			1940	*	C	30				30						
			1950	N												
			AVERAGES:			22				22		1		28		
4	Rutland	* B L Co	1890	*	C,W	0				0						
			1900	*	C,W	(15)										
			1910	*	C,W	27				27						
			1920	*	C,W	44	1			45						
			1930	*	C,W	39	70			109		(2)		47		
			1940	*	CW		97			97						
			1950	N												
			AVERAGES:			27	56			56				47		

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	St. Albans	" G L Co	1890	*	W		5			5	Lowe (G)					
			1900	*	W		6			6	"					
			1910	*	W		10			10	"					
			1920	*	W		12			12	"					
			1930	*	W		16			16	"					
			1940	0												
			1950	*	W		17			17						
			AVERAGES:				11			11						
6	St. Johnsbury	" G L Co	1890	*	?											
			1900	*	?											
			1910	*	W		10			10	Lowe					
			1920	*	W		19			19	"					
			1930	*	W		30			30	"					
			1940	0												
			1950	*	W		36			36	"					
			AVERAGES:				24			24						
7	Windsor	" G L Co	1890	*	0			1		1						
			1900	*	0			1		1						
			1910	X												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:					1		1						
8	Woodstock	" G L Co	1890	*	W		0			0	Butler					
			1900	*	W		1			1	Wilder					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:				1			1						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: VERMONT

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Barre	People's Lighting, H & P	1890													
			1900													
			1910	*	W			15		15	Low (Su)					
			1920	*	W			20		20	"					
			1930	*	W			38		38	"					
			1940	0												
			1950	*	W			45		45						
			AVERAGES:					30		30						
10	Bennington		1890													
			1900													
			1910	*	W			8		8	Low (Su)					
			1920	*	W			12		12	"					
			1930	*	W			39		39	"					
			1940	0												
			1950	0												
			AVERAGES:					20		20						
11	Springfield	" Gas Co	1890													
			1900													
			1910	*	W			7		7	Low (Su)					
			1920	*	W			20		20	"				20	
			1930	*	W			19		19	"					
			1940	0												
			1950	*	W			44		44						
			AVERAGES:					23		23						
12	Rutland	Twin State Gas & E Co	1890													
			1900													
			1910													
			1920													
			1930													
			1940	*	W			98		98	Low					
			1950	N												
			AVERAGES:					98		98						

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Alexandria	" Gas Works	1890	*	C	25				25						
			1900	*	C	24				24						
			1910	*	C	37				37						
			1920	*	C	57				57		(1)	(-)	(-)		
			1930	*	CW		93			93						
			1940	*	CW		67			67						
			1950	0												
			AVERAGES:			36	80			51						
2	Charlottesville	" GL Co	1890	*	C	1				1						
			1900	*	C	4				4						
			1910	*	C	17				17						
			1920	*	C	60				60		(0)	27	(-)		
			1930	*	C, W	12				12						
			1940	*	W		90			90						
			1950	*	W		250			250						
			AVERAGES:			19	170			62			27			
3	Danville	" Water & B Dept	1890	*	C	11				11						
			1900	*	C	27				27						
			1910	*	C	50				50						
			1920	*	C	93				93		(1)	21			
			1930	*	C, W	51	119			170		3	6			
			1940	*	CW		142			142			60			
			1950	*	CW		268			268						
			AVERAGES:			46	176			109		3	29			
4	Fredricksburg	Citizen's Gas Co	1890	*	C	2				2						
			1900	*	C	6				6						
			1910	*	C	15				15						
			1920	*	C	26				26		(1)				
			1930	*	C	42				42		(1)	26			
			1940	*	C	46				46		(2)	35			
			1950	*	CW		78			78						
			AVERAGES:			23	78			31			31			

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: VIRGINIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Lynchburg	* GL Co	1890	*	C	17				17						
			1900	*	C	12				12						
			1910	*	C	40				40						
			1920	*	C	122				122						
			1930	*	CW		185			185					48	
			1940	*	W		269			269						
			1950	N												
			AVERAGES:			48	227			108					48	
6	Norfolk	City Gas L of Norfolk	1890	*	C	50				50						
			1900	*	C, W	85				85	Lowe					
			1910	*	C, W	104	150			254	"					
			1920	*	C, W	128	299			427	"					
			1930	*	W		996			996	"				461	
			1940	*	W		997			997	"					
			1950	*	W		2,969			2,969	"				1,831	
			AVERAGES:			92	1,002			825					1,146	
7	Petersburg	* Gas Co	1890	*	C	15				15						
			1900	*	C	12				12						
			1910	*	C, W	38				38						
			1920	*	C, W	65	69			134	Lowe					
			1930	*	CW		134			134	"				66	
			1940	*	CW		156			156	"					
			1950	*	CW		270			270	"					
			AVERAGES:			33	157			108					66	
8	Portsmouth	* Gas Co	1890	*	C	?										
			1900	*	C	18				18						
			1910	*	C	56				56						
			1920	*	C, W	93	94			187	Lowe	(2)			29	
			1930	*	CW		252			252	"				42	
			1940	*	CW		280			280	"					
			1950	*	CW		612			612	"					
			AVERAGES:			56	310			234					36	

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Richmond	" Gas Works	1890	*	C	180				180						
			1900	*	C,W	240				240						
			1910	*	C,W	182	384			406	Lowe					
			1920	*	C,W	195	725			920	"					
			1930	*	W		1,542			1,542	"		510			
			1940	*	W		1,308			1,308	"					
			1950	*	W		2,584			2,584	"					
			AVERAGES:			179	1,293			1,026			510			
10	Roanoke	" G & W Co	1890	*	C,W	(15)										
			1900	*	C,W	9				9						
			1910	*	C,W	57				57						
			1920	*	C,W	116	79			195						
			1930	*	C,W	240	124			364		(6)	277			
			1940	*	C,W	402	38			440		(6)	(-)			
			1950	*	C,W	442	504			946		18	551			
			AVERAGES:			211	186			335		18	414			
11	Staunton	" Gas Co	1890	*	C	11				11						
			1900	*	C	11				11						
			1910	*	C	29				29						
			1920	*	C	37				37						
			1930	*	W		42			42						
			1940	N												
			1950	N												
			AVERAGES:			22	42			26						
12	Suffolk	" Gas Co	1890	*	W		(4)									
			1900	0												
			1910	*	W		6			6						
			1920	*	W		24			24			(2)			
			1930	*	W		44			44			19			
			1940	*	W		42			42						
			1950	N												
			AVERAGES:				29			29						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: VIRGINIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Winchester	* Gas Co	1890	*	C	3				3						
			1900	*	C	3				3						
			1910	*	C	9				9						
			1920	*	C	13				13						
			1930	*	C	32				32						
			1940	*	C	29				29		(0.7)	29			
			1950	0												
			AVERAGES:			15				15					29	
14	Newport News	* Gas Co	1890													
			1900	*	C	25				25						
			1910	*	C, W	37				37	Low					
			1920	*	C, W	104	200			304	"	7	126	22		
			1930	*	W		287			287	"					
			1940	*	W		315			315	"					
			1950	0												
			AVERAGES:			55	267			194		7	126	22		
15	Staunton	City Gas Co	1890													
			1900	*	C	8				8						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			8				8						
16	Hampton	, Phoebus & Ft. Monroe	1890													
			1900													
			1910	*	W		21			21						
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:				21			21						

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Rosslyn	E & G Co	1890												
			1900												
			1910	*	W										Under construction
			1920	*	W		31		31						
			1930	P											
			1940	O											
			1950	O											
			AVERAGES:				31		31						
18	Richmond	Henrico Co G Co	1890												
			1900												
			1910												
			1920	*	C		77		77			(10)			
			1930	O											
			1940	O											
			1950	O											
			AVERAGES:				77		77						

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: WASHINGTON

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Olympia	" G & E L Co	1890	*	C	4				4						
			1900	X												
			1910	-												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			4				4						
2	Port Townsend	" G & Fuel Co	1890	*	C	(7)										
			1900	*	C	2				2						
			1910	*	C	3				3						
			1920	*	C	4				4						
			1930	0												
			1940	N												
			1950	-												
			AVERAGES:			3				3						
3	Seattle		1890	*	C	27				27						
			1900	*	C	85				85						
			1910	*	C, W	270	405			675	Lowe					
			1920	*	C, W	877	609			1,486	"					
			1930	*	W, Coke		1,414		661	2,075	"	(35)	547		520	
			1940	*	W, O		811	1,663		2,474	"		1,787			
			1950	*	W, O		532	3,837		4,369	"		2,157			
			AVERAGES:			315	754	2,750	661	1,599			1,497		520	
4	Spokane Falls		1890	*	C, W	(20)										
			1900	*	C, W	30				30						
			1910	*	C, W	180				180						
			1920	*	C, W	257	33			290		(5)	(-)			
			1930	*	C, W	260	148			408		(10)	237			
			1940	*	C, W	278	76			354						
			1950	N												
			AVERAGES:			201	86			252			237			

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Takoma	" L & W Co	1890	*	C	20				20						
			1900	*	C	23				23						
			1910	*	C,W	49	74			123	Lowe					
			1920	*	C,W	144	268			412	"	(-)	(-)	(-)		
			1930	*	W		553			553	"			332		
			1940	*	W		717			717	"					
			1950	*	W		1,296			1,296	"					
			AVERAGES:			59	582			449				332		
6	Walla Walla	" G & E Co	1890	*	C	4				4						
			1900	*	C	5				5						
			1910	*	C	17				17						
			1920	*	C	7										
			1930	*	C	52				52						
			1940	*	C,W,D	180	89	40		309		(5)		135		
			1950	*	W,D		120	96		216						
			AVERAGES:			52	105	68		101				135		
7	Fairhaven	Bellingham Bay Gas Co	1890													
			1900	*	C,W	11				11	Lowe					
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			11				11						
8	Aberdeen	Grey's Harbor Gas Co	1890													
			1900													
			1910	*	C,W	22				22						
			1920	*	C,W	50				50						
			1930	*	C,W	28	54			82		(0.6)		83		
			1940	0												
			1950	0												
			AVERAGES:			33	54			51				83		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: WASHINGTON

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Everett	Northwest L & P Co	1890													
			1900													
			1910	*	W			18		18						
			1920	*	W			57		57						
			1930	*	W			82		82					90	
			1940	0												
			1950	0												
			AVERAGES:					52		52					90	
10	Vancouver	Independent L & W Co	1890													
			1900													
			1910	*	0			[6]								
			1920	P												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
11	North Yakima	Northwestern Corp.	1890													
			1900													
			1910	*	C			(8)								
			1920	*	C			64		64		(2)		(6)		
			1930	*	C			84		84						
			1940	0												
			1950	0												
			AVERAGES:					74		74						
12	Auburn	Valley Gas Co	1890													
			1900													
			1910													
			1920	*	?			6		6						Wood feedstock
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:					6		6						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Centralia	N. Pacific Pub. Serv.	1890													
			1900													
			1910													
			1920	*	C	19				19		(1)	(1)			
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			19				19						
14	Portland	Pacific P & L Co	1890													
			1900													
			1910													
			1920	*	C	40				40		(1)	12			
			1930	0												
			1940	0												
			1950	-												
			AVERAGES:			40				40			12			
15	Wenatchee	Central Washington G Co	1890													
			1900													
			1910													
			1920	*	W		13			13						
			1930	*	CW		23			23						
			1940	*	CW		12			12						
			1950	N												
			AVERAGES:				16			16						
16	Chehalis	Wash. G & E Co	1890													
			1900													
			1910													
			1920													
			1930	*	C	38				38		(1.3)	95			
			1940	0												
			1950	0												
			AVERAGES:			38				38			95			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: WASHINGTON

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia	
17	Bremerton	Western Gas Co at Wash.												
		1890												
		1900												
		1910												
		1920												
		1930												
		1940												
		1950	*	W		65		65						
AVERAGES:					65		65							
18	Bellingham	Whatcom County Rail.												
		1890												
		1900												
		1910	*	C,W	37	8		45	LOWE					
		1920	*	C,W	39	14		53	"	(1)	(7)			
		1930	*	W		83		83	"			34		
		1940	*	CW		73		73	"			48		
		1950	0											
AVERAGES:				38	45		63			41				

NO.	CITY		YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu. ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Charleston	" G&E Co	1890	*	C	9				9						
			1900	*	C	13				13						
			1910	0												
			1920	0												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			11				11						
2	Charlestown	" G&W Co	1890	*	W		(2)				Low					
			1900	*	W		2			2	"					
			1910	*	W		4			4	"					
			1920	*	W		5			5	"					
			1930	*	W		5			5	"					
			1940	*	W		?				"					
			1950	*	W		?				"					
			AVERAGES:				4			4						
3	Clarksburg	" G Co	1890	*	C	(2.5)										
			1900	*	C	(3)										
			1910	*	C	(10)										
			1920	0												
			1930	0												
			1940	-												
			1950	-												
			AVERAGES:													
4	Grafton	" G Co	1890	*	C	5				5						
			1900	*	C	10				10						
			1910	X												
			1920	-												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:			8				8						

TABLE B-1 IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: WEST VIRGINIA

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total	Coke	Tar	Ammonia	Other	
5	Martinsburg	" G Co	1890	+	C	2				2					
			1900	+	C	3				3					
			1910	+	W		6			6	Lowe				
			1920	+	W		27			27	"				
			1930	+	W		42			42	"				
			1940	+	W		56			56	"			16	
			1950	N											
			AVERAGES:			3	33			23				16	
6	Parkersburg	" G Co	1890	+	C	(12)									
			1900	+	C	9				9					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			9				9					
7	Wheeling	City G Works	1890	+	C	(35)									
			1900	+	C	135				135					
			1910	+	C	350				350					
			1920	0											
			1930	0											
			1940	-											
			1950	-											
			AVERAGES:			243				243					
8	Huntingdon	Consolidated L&Rail Co	1890												
			1900	+	C	8				8					
			1910	0											
			1920	0											
			1930	-											
			1940	-											
			1950	-											
			AVERAGES:			8				8					

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Bluefield	" G&P Co	1890													
			1900													
			1910													
			1920	*	C	29				29		(8)		(-)		
			1930	*	C	65				65		(2)		66		
			1940	*	C	67				67		(1.3)		60		
			1950	N												
			AVERAGES:			54				54				63		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: WISCONSIN

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
1	Appleton	* GL Co	1890	*	C	(13)									
			1900	*	C,W	12			12	Lowe					
			1910	*	C,W	54	6		60	"					
			1920	*	C,W	89	46		135	"	(4)	(-)	(-)		
			1930	*	C	305			305		16	224	30		
			1940	*	C	242			242						
			1950	*	W		287		287			262			
			AVERAGES:			140	113		174		16	243	30		
2	Ashland	* Lighting Co	1890	*	W		12		12	Lowe					
			1900	*	W		8		8	"					
			1910	*	W		17		17	"					
			1920	*	W		17		17	"					
			1930	*	W		40		40	"					
			1940	*	W		46		46	"					
			1950	N											
			AVERAGES:				23		23						
3	Baraboo	* G & EL Co	1890	*	O			(6)							
			1900	*	O			(6)		Patton					
			1910	*	C	9			9						
			1920	*	C	19			19		2	33			
			1930	*	C	29			29						
			1940	O											
			1950	O											
			AVERAGES:			19			19		2	33			
4	Beloit	* G L & Coke Co	1890	*	C	5			5						
			1900	*	C	6			6						
			1910	*	C,W	33	14		47						
			1920	*	W		133		133			68			
			1930	*	W		246		246						
			1940	*	C,CW	51	707		758		(1)	619			
			1950	*	CW		651		651			424			
			AVERAGES:			24	350		264			370			

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
5	Chippewa Falls	" GL Co	1890	*	W			5		5	Lowe (S)					
			1900	*	W			5		5	"					
			1910	*	W			6		6	"					
			1920	*	W			21		21	"					
			1930	*	W			1		1	"					
			1940	*	W			1		1	"					
			1950	N												
			AVERAGES:					7		7						
6	Eau Claire	" Gas Co	1890	*	C	(25)										
			1900	*	C, W	12				12						
			1910	*	C	41				41						
			1920	*	C	61				61		4	62			
			1930	*	C	109				109		(3)	118			
			1940	*	C	135				135		(3)	141			
			1950	N												
			AVERAGES:			72				72		4	107			
7	Fond du Lac	" Gas Co	1890	*	C	4				4						
			1900	*	C	10				10						
			1910	*	C	45				45						
			1920	*	C, W	104	1			105		(2)	(6)	(-)		
			1930	*	C, W	284	9			293						
			1940	0												
			1950	0												
			AVERAGES:			89	5			91						
8	Green Bay	" L & Fuel Co	1890	*	C	5				5						
			1900	*	C, W	12				12	Sutherland					
			1910	*	C	50				50						
			1920	*	C, W	111				111		(2)	52			
			1930	*	C, W	121	202			323		(4)	207			
			1940	*	W		342			342						
			1950	*	W		441			441			230			
			AVERAGES:			60	328			183			163			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: WISCONSIN

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
9	Janesville	New Gas Light Co	1890	*	W			13		13	Lowe(S)					
			1900	*	W			26		26	"					
			1910	*	W			50		50	"					
			1920	*	W			84		84	"			(15)		
			1930	*	W			145		145	"			44		
			1940	O												
			1950	O												
			AVERAGES:					64		64				44		
10	Kenosha	" G, EL & Fuel Co	1890	*	W			5		5	Loomis					
			1900	*	W			24		24	Lowe					
			1910	*	W			77		77	"					
			1920	*	W			236		236	"					
			1930	P												
			1940	O												
			1950	O												
			AVERAGES:					86		86						
11	La Crosse	" GL Co	1890	*	C			16		16						
			1900	*	C			22		22						
			1910	*	C			66		66						
			1920	*	C, W	120	28			148		(4)			(-)	
			1930	*	C, W	120	28			148		(4)	164			
			1940	*	C, W	52	109			161		(0.6)	154			
			1950	*	W		263			263			112			
			AVERAGES:			66	107			118						
12	Madison	" G L & Coke Co	1890	*	W			13		13	Lowe(S)					
			1900	*	W			40		40	"					
			1910	*	W			125		125	"					
			1920	*	W			316		316	"					
			1930	*	W			908		908	"		264			
			1940	*	W			1,012		1,012	"		340			
			1950	N												
			AVERAGES:					402		402						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
13	Marinette	" GL Co	1890	*	O			(9)			Patton					
			1900	*	O			(16)			"					
			1910	*	C	11				11						
			1920	O												
			1930	O												
			1940	-												
			1950	-												
			AVERAGES:			11				11						
14	Milwaukee	" G L Co	1890	*	C, W	(200)					Lowe					
			1900	*	C, W	1,000				1,000	"					
			1910	*	C, W	2,530				2,530	"					
			1920	*	C, W	4,650				4,650	"					
			1930	*	C, W	1,600	1,729			3,329	"					
			1940	*	CW		1,755			1,755	"					
			1950	N												
			AVERAGES:			2,445	1,742			2,653						
15	Neenah	" & Menasha G & E Co	1890	*	O			(10)			Patton					
			1900	*	O			(12)			"					
			1910	O												
			1920	O												
			1930	-												
			1940	-												
			1950	-												
			AVERAGES:													
16	Dshkosh	" GL Co	1890	*	C	(30)										
			1900	*	C	30				30						
			1910	*	C, W	75				75						
			1920	*	C, W	61	81			142		(3)	58			
			1930	*	C, W	78	187			265		(2)	154			
			1940	*	W		274			274			(40)			
			1950	*	W		532			532			336			
			AVERAGES:			61	269			220			183			

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: WISCONSIN

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
17	Portage	* American Gas Co	1890	*	C	(6)									
			1900	*	C	7			7						
			1910	*	C	18			18						
			1920	*	C	27			27		(0.4)	(-)			
			1930	*	C	33			33		(0.5)	37			
			1940	0											
			1950	0											
			AVERAGES:			21			21			37			
18	Racine	Wisconsin G & E Co	1890	*	C	1			1						
			1900	*	C	45			45						
			1910	*	C	195			195						
			1920	*	C	792			792						
			1930	*	C, W	2,200	128		2,328		114	2,260	667		
			1940	*	C	2,273			2,273		(30)	2,530	597		
			1950	*	C, W	2,112	548		2,660		108	2,077			
			AVERAGES:			1,088	338		1,185		111	2,289	632		
19	Ripon	* Lighting Co	1890	*	0			(4)							
			1900	*	0			2		2					
			1910	*	0			5		5	Patton				
			1920	*	0			5		5	"				
			1930	*	W		16		16						
			1940	0											
			1950	0											
			AVERAGES:				16	4		7					
20	Sheboygan	* National G Co	1890	*	C, W	7			7	Lowe(S)					
			1900	*	C, W	11			11	"					
			1910	*	C, W	33			33	"					
			1920	*	C, W	91	4		95	"	(1)	(-)	(0.2)		
			1930	*	C, W	151	262		413	"	(4)	194			
			1940	*	Coke				384	384		20	317		
			1950	*	Coke				486	486		27	384		
			AVERAGES:			59	133		435	204		24	298		

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
21	Stevens Point	"	Lighting Co	1890	*	C	(9)								
				1900	*	C,W	(10)			Sutherland					
				1910	*	C	11		11						
				1920	*	C	8		8		(0.4)	(-)			
				1930	*	C	42		42		(0.5)	50			
				1940	*	C	56		56		(1.3)	62			
				1950	N										
				AVERAGES:			29		29			56			
22	Superior	"	W, L & P Co	1890	*	W		15		15	Lowe(S)				
				1900	*	W		14		14	"				
				1910	*	Coke			54	54					
				1920	*	Coke			125	125					
				1930	P										
				1940	P										
				1950	O										
				AVERAGES:				15		90	52				
23	Watertown	"	Gas Co	1890	*	C	4			4					
				1900	*	C	6			6					
				1910	*	C	25			25					
				1920	*	C	30			30		(1)	(-)	(0)	
				1930	*	C	60			60					
				1940	O										
				1950	O										
				AVERAGES:			25			25					
24	Waukesha	"	American Gas Co	1890	*	C	6			6					
				1900	*	C	14			14					
				1910	*	C	33			33					
				1920	*	C	86			86	(2)				
				1930	*	W		9		9					
				1940	O										
				1950	O										
				AVERAGES:			35	9		30					

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: WISCONSIN

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)				GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke		Total	Coke	Tar	Ammonia	
25	Wausau	"	B L & Coke Co	1890	*	C	4			4				
				1900	*	C	12			12				
				1910	*	C	25			25				
				1920	*	C	37			37				
				1930	*	C	78			78	(1)	78		
				1940	*	C	88			88				
				1950	*	C	143			143	4	104		
				AVERAGES:			55			55	4	91		
26	River Falls	"	L, H & D Co	1890										
				1900	*	O			2	2				
				1910	O									
				1920	O									
				1930	-									
				1940	-									
				1950	-									
				AVERAGES:					2	2				
27	Antigo	"	Gas Co	1890										
				1900										
				1910	*	W		?			Lowe			
				1920	*	W		13		13	"		6	
				1930	*	W		19		19	"			
				1940	*	W		19		19	"		6	
				1950	N									
				AVERAGES:				17		17			6	
28	Beaver Dam	"	F & L Co	1890										
				1900										
				1910	*	W		4		4				
				1920	*	W		28		28				
				1930	*	W		6		6				
				1940	O									
				1950	O									
				AVERAGES:				13		13				

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					BASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
29	Berlin	" Gas Co	1890													
			1900													
			1910	*	C	8				8						
			1920	*	C	10				10		1		13		
			1930	*	C	22				22		1		26		
			1940	0												
			1950	0												
			AVERAGES:			13				13		1		20		
30	Burlington	Citizen's Gas Co	1890													
			1900													
			1910	*	C, W	6				6	Low					
			1920	*	C, W	12				12	"					
			1930	*	W		78			78	"			62		
			1940	*	W		121			121	"			60		
			1950	N												
			AVERAGES:			9	100			54				61		
31	Fort Atkinson	" Gas Co	1890													
			1900													
			1910	*	W		(4)									
			1920	*	W		2			2						
			1930	*	W		46			46						
			1940	0												
			1950	0												
			AVERAGES:				24			24						
32	Monitowoc	" G L Co	1890													
			1900													
			1910	*	C	38				38						
			1920	*	C	53				53		4		50		
			1930	*	C	125				125		1		111		
			1940	*	C	113				113		(2)		92		
			1950	N												
			AVERAGES:			82				82		3		84		

TABLE B-1: IDENTIFICATION OF TOWN GAS MANUFACTURING SITES - ALL PLANTS (1890-1950)

STATE: WISCONSIN

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
33	Menomonie	" L & F Co	1890													
			1900													
			1910	*	W			5		5						
			1920	*	W			10		10						
			1930	*	W			11		11						
			1940	0												
			1950	0												
			AVERAGES:					9		9						
34	Merrill	" G Co	1890													
			1900													
			1910	*	W			(10)			Low					
			1920	0												
			1930	*	CW			1		1	Low					
			1940	*	CW			10		10	"					
			1950	N												
			AVERAGES:					6		6						
35	Monroe	" L & F Co	1890													
			1900													
			1910	*	W			(6)			Low					
			1920	*	W			13		13	"					
			1930	*	W			23		23	"					
			1940	0												
			1950	0												
			AVERAGES:					18		18						
36	Platteville	" Gas Co	1890													
			1900													
			1910	*	C			(7)								
			1920	*	C			11		11						
			1930	*	C			10		10		(0.4)		11		
			1940	0												
			1950	0												
			AVERAGES:					11		11						

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
37	Rhinelander	Oneida Gas Co	1890													
			1900													
			1910	*	W			(6)			Low					
			1920	*	W			8		8	"					
			1930	*	W			(7)			"					
			1940	*	W			20		20	"					
			1950	N												
			AVERAGES:					14		14						
38	Staughton	" L & F Co	1890													
			1900													
			1910	*	W			(12)			Low					
			1920	*	W			23		23	"					
			1930	*	W			19		19	"					
			1940	*	CW			14		14	"					
			1950	N												
			AVERAGES:					19		19						
39	Ashland	Michigan G & E Co	1890													
			1900													
			1910													
			1920													
			1930	*	C	106				106		5		107		
			1940	N												
			1950	N												
			AVERAGES:			106				106		5		107		
40	Marshfield	People's G Co	1890													
			1900													
			1910													
			1920													
			1930	*	CW			29		29						
			1940	*	CW			22		22				13		
			1950	N												
			AVERAGES:					26		26				13		

NO.	CITY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
					Coal	Water	Oil	Coke	Total		Coke	Tar	Ammonia	Other	
41	Two Rivers	Misc. Pub. Svcs.	1890												
			1900												
			1910												
			1920												
			1930	*	W		31			31					
			1940	*	W		40			40					
			1950	N											
			AVERAGES:				36			36					
42	Amery	Misc. Hydro. Elec. Co	1890												
			1900												
			1910												
			1920												
			1930	*	C, W	13	51			64					
			1940	N											
			1950	N											
			AVERAGES:			13	51			64					

NO.	CITY	COMPANY	YEAR	STATUS	GAS TYPE	GAS PRODUCTION RATE (MM cu.ft./YR)					GASIFIER/ PROCESS	*****BY-PRODUCTS*****				MISCELLANEOUS INFORMATION
						Coal	Water	Oil	Other	Total		Coke	Tar	Ammonia	Other	
1	Ponce	City of Ponce Gas Works	1890													
			1900													
			1910													
			1920							(35)						
			1930													
			1940	*	W			26		26	Lowe					
			1950	*	W			40		40						
			AVERAGES:					33		33						
2	San Juan	P.R. Gas & Coke Co	1890													
			1900													
			1910													
			1920							(70)	Coal					
			1930													
			1940	*	W			228		228					401	
			1950	*	W			435		435					534	
			AVERAGES:					332		332					468	

77923

Attachment 1

Abandoned Town Gas Sites in Region 9

by

Advanced Processes Branch, IERL-RTP, NC

Contents

Introduction	1-1
Purpose of Study	1-1
Presentation and Discussion	1-2
Figures	
Region 9 Town Gas Output - Total	1-6
Arizona Sites by Zip Code Location	1-8
California Sites by Zip Code Location	1-9
Hawaii Sites by Zip Code Location	1-10
Nevada Sites by Zip Code Location	1-11
Town Gas Production, U.S. 1880-1949 Total by Region	1-15
Tables	
State/Territory Rank In Gas Production (1880-1949)	1-4
Gas Production, Individual Largest Sites (1880 to 1950)	1-5
Region 9, Number of Sites Per State, City, and County	1-7
Arizona Site Locations	1-12
California Site Locations	1-13
Hawaii Site Locations	1-14
Nevada Site Locations	1-14

Introduction

Recently, the concern over potential health effects from abandoned town gas disposal sites has surfaced. The major problem at these sites is the coal tars which contain known carcinogenic and toxic compounds and which were disposed of in many locations. These town gas producers operated from the mid-1800s to past the mid-1900s. Since cessation of their operation, industrial, commercial, recreational, and residential expansion have utilized these sites. Due to the Advanced Processes Branch-IERL/RTP's experience in coal conversion technologies and their resultant environmental problems, we became interested in the magnitude of this potential problem with regard to both the environmental consequences from these sites and as a potential problem which EPA may have to address.

Since the report is quite voluminous and covers the whole United States, we have extracted some information that pertains to your region. Additionally, several interpretative relationships have been developed that are not in the report. We have placed part of the raw data in our computer that allows for this and additional interpretive analysis. In the future, all the data will have been inserted, and the data base will be kept updated.

Purpose of the Study

The purpose of this study (draft report attached for your review) was to survey the magnitude of this industry, location by towns where manufactured gas plants had operated, general size of the operations, and life of the plant. From these data, estimates can be made of quantities of tars produced. However, this survey will not be able to determine:

- Whether the tars were disposed of or sold,
- Quantities actually disposed of on site,
- Exact locations of the plant in each particular town,
- Potential migration into the surrounding land or into aquifers/ waterways, or
- Types of disposal practice that were used.

Presentation and Discussion

For the states in Region 9, California had the most sites, the largest individual sites, and over 90% of the estimated produced gas. California ranked eighth among states in the U.S. for total gas production. Nevada had only a few small sites while Hawaii had one small site and one large site (Honolulu). This large site used oil as feedstock and was operating on a large scale in 1949. California generally used coal in the early years and switched to oil feedstock in later years. California had its largest sites in the 1900 to 1930 time frame in San Francisco (12th largest in U.S.), Oakland, Los Angeles, San Diego, and Sacramento with other large sites in San Jose, San Rafael, Stockton, and Redwood. California had about 90 different sites in operation from 1880 to 1950 with as many as 60 operating at the same time. The estimated gas produced during this time is over 500 billion cubic feet.

Although little is known about the oil feed characteristics or the manner in which the gas producer was operated, the tars produced from the oil feedstock would be expected to be less than from a coal feed. Thus the quantity of tars produced and potential problems in this Region would not be expected to be as large as indicated by the total quantity of gas produced. One might assume that the tar quantity would be substantially less than the 400 million gallons of tar that would be estimated if the generic factor which is developed in the report were to be applied to the gas produced from Region 9 which had a high fraction of oil feedstock.

There are several arbitrary criteria that could be used to define a large site. This attachment used an estimate of total gas produced by a plant during the 1880 to 1950 time period as determined by surveying data compiled for 1889, 1899, 1909, 1919, 1929, 1939, and 1949 and allowing each year to represent the production for the decade. The largest plants within a state, using the estimated total gas produced during the plant's lifetime, were noted. The draft report has a table of large sites which used different criteria. The criteria in the report were to list the site in each state that had the highest average yearly gas production regardless of size and any site in a state that averaged more than 200 million cubic feet of gas production per year during its estimated life. This simply presents an alternate way of viewing the data.

At this time, an evaluation of existing data to determine tar production or disposition on a site specific basis has not been undertaken. This could involve evaluation of the process used to determine from feedstock and operating characteristics what were the tar productions, determination of tar sales or reuse, determination of tar disposed of, location of the disposal, and evaluation of disposal technique. To some extent information on the process, feedstock, and tar sales have been recorded and in isolated cases examined to provide clues as to the extent of tar disposal.

Evaluation of the information presently in hand has indicated the possibility of tar disposal having occurred at all size plants for various reasons. Small plants generally would not have sufficient volume in tar production or population base to warrant development of a by-product tar market. Thus, generally speaking, an assumption may be made that small plants probably disposed of any tars that were produced. Data from many large plants indicate that tars were sold. However, it is likely that due to market conditions, site characteristics, tar qualities, etc. not all of these tars were sold even at a specific site. Thus even if a small part of the tars generated at large sites were disposed of, this would be a significant quantity. It should be noted that even large town gas plants were small compared to the by-product coke plants which generated the bulk of the tars that were used in industry.

The collection and evaluation of information represented in this effort is meant to provide background for others to decide whether additional effort should be expended in this area in comparison to other Agency priorities.

STATE/TERRITORY RANK IN GAS PRODUCTION (1880-1949)

Ordered by Rank		Ordered by Region/State		
Rank	State	Region	State	Rank
1	NY	1	MA	4
2	NJ		CT	11
3	PA		RI	13
4	MA		ME	27
5	IL		NH	28
6	MI		VT	36
7	MD	2	NY	1
8	CA		NJ	2
9	IN		PR	45
10	WI	3	PA	3
11	CT		MD	7
12	DC		DC	12
13	RI		VA	16
14	MO		DE	34
15	OR		WV	42
16	VA	4	FL	19
17	IA		GA	22
18	WA		KY	24
19	FL		TN	25
20	MN		NC	26
21	OH		SC	30
22	GA		AL	25
23	NB		MS	41
24	KY	5	IL	5
25	TN		MI	6
26	NC		IN	9
27	ME		WI	10
28	NH		MN	20
29	CO		OH	21
30	SC	6	TX	31
31	TX		LA	33
32	HA		AR	46
33	LA		NM	49
34	DE		OK	51
35	AL	7	MO	14
36	VT		IA	17
37	AZ		NB	23
38	ND		KS	43
39	SD	8	CO	29
40	UT		ND	38
41	MS		SD	39
42	WV		UT	40
43	KS		MT	44
44	MT		WY	50
45	PR	9	CA	8
46	AR		HA	32
47	NV		AZ	37
48	ID		NV	47
49	NM	10	OR	15
50	WY		WA	18
51	OK		ID	48
52	AK*		AK *	52

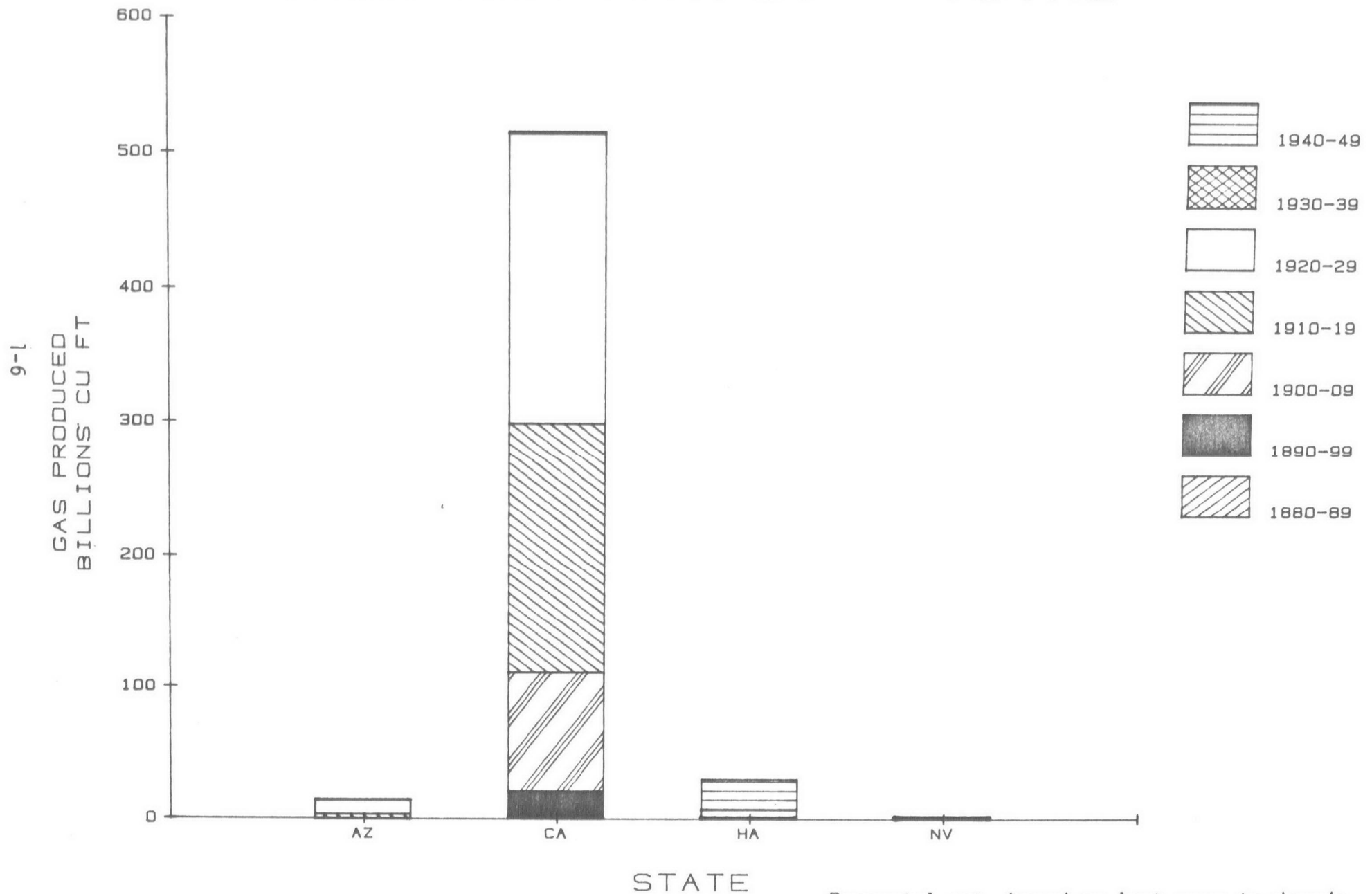
1-4

* No data

GAS PRODUCTION, INDIVIDUAL LARGEST SITES (1880 to 1950)

Site	Estimate of Gas Produced (Billions Cubic Feet)
1. New York City (NY)	1,430
2. Brooklyn (NY)	1,120
3. Philadelphia (PA)	770
4. Baltimore (MD)	570
5. Chicago (IL)	540
6. Astoria (NY)	350
7. Detroit (MI)	290
8. Washington (DC)	280
9. Boston (MA)	250
10. Portland (OR)	220
11. Providence (RI)	170
12. San Francisco (CA)	160
13. Indianapolis (IN)	150
14. Milwaukee (WI)	130
15. Philadelphia (PA)	120

REGION 9 TOWN GAS OUTPUT - TOTAL



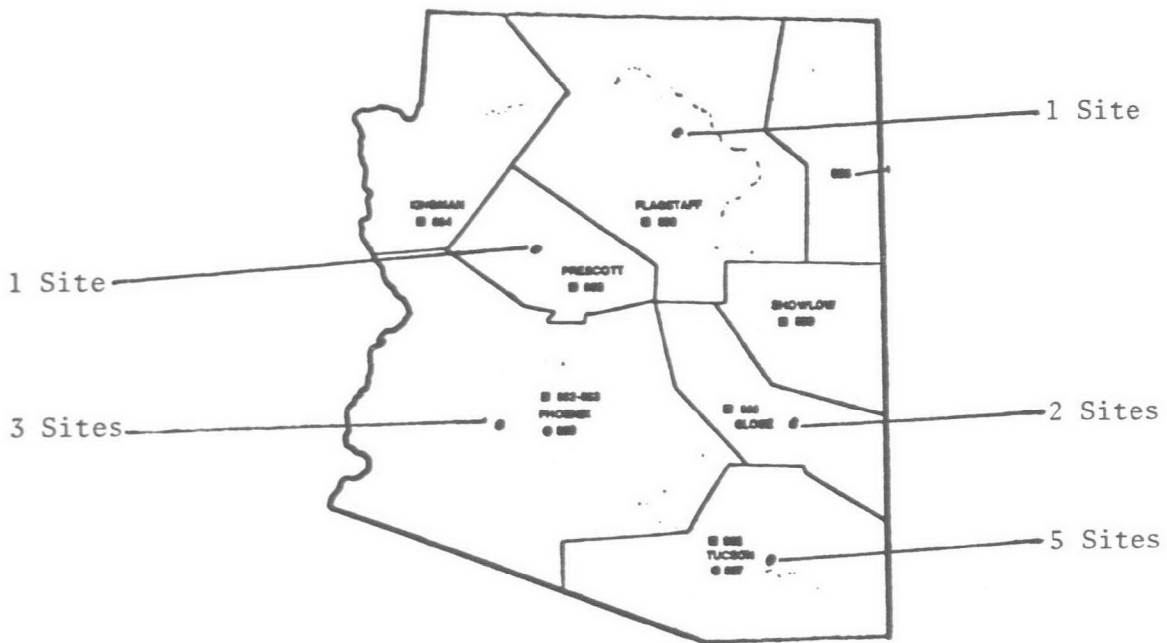
REGION 9

Number of Sites Per State, City, and County

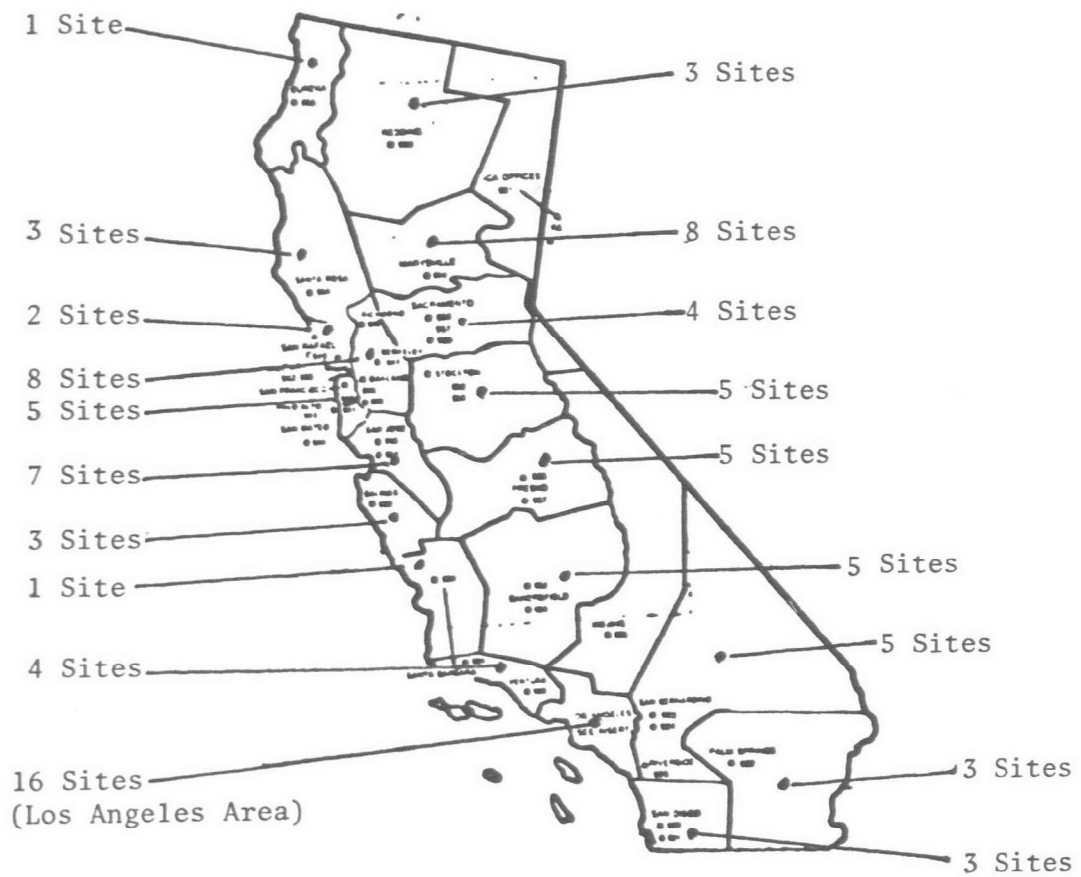
State	Number of Sites	Cities with More Than One Site & Number	Counties With More Than One Site & Number
Arizona	12	None	Cochise (3) Gilla (2) Maricopa (2)
California	91	Long Beach (2) Los Angeles (3) Nevada City (2) Pasadena (2) Sacramento (2) Salinas (2) San Francisco (3) Visalia (2)	Alameda (3) Butte (2) Fresno (4) Los Angeles (13) Monterey (3) Napa (2) Nevada (3) Orange (3) Riverside (4) San Bernardino (3) San Diego (3) Santa Clara (5) Santa Cruz (2) Solano (2) Sonoma (3) Stanislaus (3) Tulare (4) Ventura (2)
Hawaii	2	None	None
Nevada	<u>6</u>	None	None

111

ARIZONA



CALIFORNIA



HAWAII



NEVADA



ARIZONA

CITY	COUNTY	ZIP (3 digits)	Number of Sites
Bisbee	Cochise	856	1
Douglas	Cochise	856	1
Globe	Gilla	855	1
Mesa	Maricopa	850	1
Miami	Gila	855	1
Nogales	Santa Cruz	856	1
Phoenix	Moricopa	850	1
Prescott	Yavapai	863	1
Tombstone	Cochise	856	1
Tuscon	Pima	857	1
Winslow	Navajo	860	1
Yuma	Yuma	853	1

CALIFORNIA

CITY	COUNTY	*ZIP	NO. OF Sites	CITY	COUNTY	*ZIP	NO. OF SITES
Anaheim	Orange	928	1	Oxnard	Ventura	930	1
Avalon	Los Angeles	907	1	Palo Alto	Santa Clara	943	1
(Cat. Isl)				Parlier	Fresno	936	1
Bakersfield	Kern	933	1	Pasadena	Los Angeles	911	2
Banning	Riverside	922	1	Pittsburg	Contra Costa	945	1
Beaumont	Riverside	922	1	Placerville	El Dorado	956	1
Benicia	Solano	945	1	Petaluma	Sonoma	949	1
Chico	Butte	959	1	Pomona	Los Angeles	917	1
Colusa	Colusa	959	1	Red Bluff	Tehama	960	1
Dinuba	Tulare	936	1	Redding	Shasta	960	1
El Centro	Imperial	922	1	Redlands	San Bernardino	923	1
Escondido	San Diego	920	1	Redwood	San Mateo	940	1
Eureka	Humboldt	955	1	Riverside	Riverside	925	1
Fowler	Fresno	936	1	Sacramento	Sacramento	958	2
Fresno	Fresno	937	1	Salinas	Monterey	939	2
Gilroy	Santa Clara	950	1	St. Helena	Napa	945	1
Grass Valley	Nevada	959	1	San Bernardino	San Bernardino	924	1
Hanford	Kings	932	1	San Diego	San Diego	921	1
Healdsburg	Sonoma	954	1	San Francisco	San Francisco	941	3
Hemet	Riverside	923	1	San Jose	Santa Clara	951	1
Hollister	San Benito	950	1	San Luis Obispo	San Luis Obispo	934	1
Huntington	Orange	926	1	San Leandro	Alameda	945	1
Park				San Pedro	Los Angeles	907	1
Inglewood	Los Angeles	903	1	San Rafael	Marin	949	1
Jackson	Amador	956	1	Santa Ana	Orange	927	1
Livermore	Alameda	945	1	Santa Barbara	Santa Barbara	931	1
Long Beach	Los Angeles	908	2	Santa Monica	Los Angeles	904	1
Los Angeles	Los Angeles	900	3	Santa Clara	Santa Clara	950	1
Los Gatos	Santa Clara	950	1	Santa Cruz	Santa Cruz	950	1
Madera	Madera	936	1	Santa Rosa	Sonoma	954	1
Marysville	Yuba	959	1	Selma	Fresno	930	1
Merced	Merced	953	1	Stockton	San Joaquin	952	1
Modesta	Stanislaus	953	1	Tulare	Tulare	932	1
Monterey	Monterey	939	1	Turlock	Stanislaus	953	1
Napa City	Napa	945	1	Ukiah	Mendocino	954	1
Needles	San Bernardino	923	1	Vallejo	Solano	945	1
Nevada City	Nevada	959	2	Ventura	Ventura	930	1
Oakdale	Stanislaus	953	1	Visalia	Tulare	932	2
Oakland	Alameda	946	1	Watsonville	Santa Cruz	950	1
Oceanside	San Diego	920	1	Willows	Glenn	959	1
Oroville	Butte	959	1	Woodland	Los Angeles	913	1
				Yreka	Siskiyou	960	1

* (Three digits)

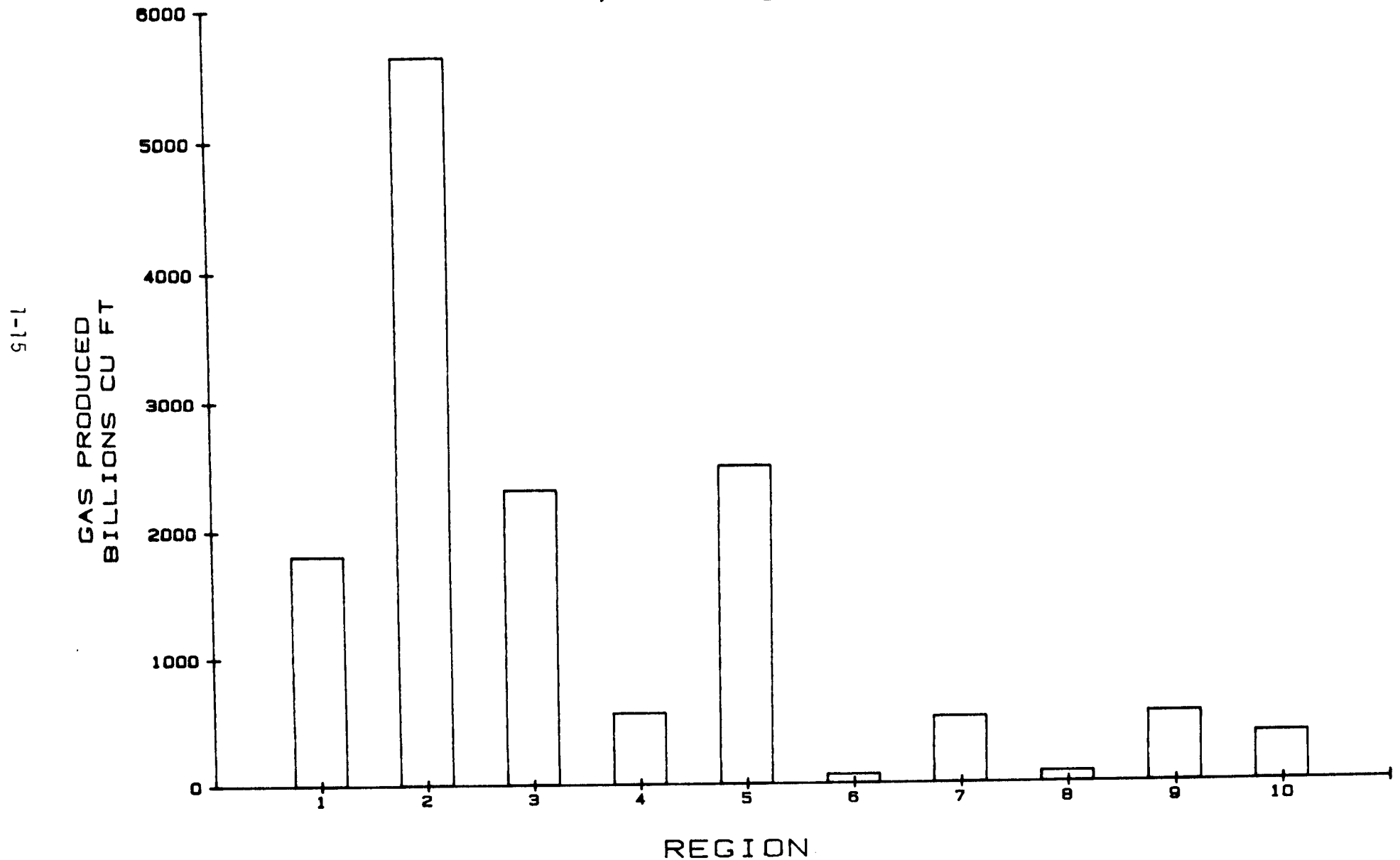
HAWAII

CITY	COUNTY	ZIP (3 digits)	Number of Sites
Hilo	Hawaii	967	1
Honolulu	Honolulu	968	1

NEVADA

Carson City	Carson City	897	1
Las Vegas	Clark	891	1
Reno	Washoe	895	1
Tonapah	Nye	890	1
Virginia City	Storey	894	1
Winemucca	Humboldt	894	1

TOWN GAS PRODUCTION
U. S. 1880-1949 TOTAL
by region



HEALTH EFFECTS RELATED TO COAL TAR

Human health effects related to coal tar and coal tar components can be traced at least as far back as 1775 when Sir Percival Pott, a London physician, noted an unusual incidence of scrotal cancer among the city's chimney sweeps and wrote that the disease "seems to derive its origin from a lodgement of soot in the rugae of the scrotum" (Pott, 1775). In 1885, Ball reported skin cancer in two male patients who had worked in a tar distillation plant for 9 and 15 years, respectively. Ball emphasized that "warts" which had developed on the scrotum, forearms, hands and face were epitheliomas (squamous cell carcinomas) and were "feebly malignant."

That exposure to coal tar volatiles poses a significant human health risk is well-documented. As one example, Kawai et al (1967) summarized the incidence of lung cancer among male workers exposed to tar fumes at the coal gas plant at the Yawata Iron and Steel Works in Japan. The mortality experience of a group of 504 employees at this plant from the 1930s until 1953 was compared with the mortality of 25,760 employees at the same steel mill who had never worked in the gas generator plant. This study showed that gas plant workers who had been exposed to tarry fumes for 20 years or more had a lung cancer mortality 136 times greater than the non-gas plant workers. Those employed in the gas works for 10 to 19 years exhibited a lung cancer mortality 32 times higher than the non-gas plant workers while those employed in the gas works less than 10 years had a lung cancer mortality 18 times higher.

A NIOSH study of 34 men exposed to coal tar pitch fumes during a roofing operation (1976) revealed a number of skin reactions including localized erythema, hyperpigmentation, papular dermatitis, and burning sensations among 23 of the 34 men. Seventeen of the 34 workers complained of adverse eye effects including burning conjunctival erythema, increased tearing, and swelling of the eyelids. Some workers complained of a purulent discharge from the eyes and matted eyelashes the following morning.

Several other studies have shown an increased occurrence of lung, stomach, skin, bladder, kidney and scrotal cancer and leukemia among workers exposed to coal tar fumes (e.g., coal gas plant and coke oven workers, and roofers) compared to the general population (Doll, et al, 1972; Kennaway and Kennaway, 1947; Lloyd, 1971; Redmond et al, 1972 and 1976; Marzumdar et al, 1975; Hammond et al, 1976). Such evidence has prompted the American Conference of Governmental Industrial Hygienists as well as the U. S. Occupational Safety and Health Administration to recognize "coal tar pitch volatiles" as a proven carcinogenic substance in man and to assign a Threshold Limit Value or permissible exposure limit of 0.2 mg/m³ (as benzene solubles) as an eight-hour time-weighted average (ACGIH, 1982).

Direct dermal exposure to coal tar and its various distillate fractions has been recognized to result in increased frequency of skin cancer. The 1907 Workman's Compensation Act of Great Britain officially noted that cutaneous epitheliomas could be caused by pitch and tarry substances.

Unlike the predominance of scrotal cancer resulting from exposure to coal soot as experienced by 18th century chimney sweeps, occupational exposure to tar and pitch affects primarily other skin sites. Henry (1947) reported that pitch or tar was thought to be responsible for 2229 of 3753 cases of skin cancer recorded in Great Britain from 1920 to 1945. Additionally, human skin cancers have been noted following exposures to coal tar distillate products such as creosote oils and anthracene oils (Cookson, 1924; Lenson, 1956).

Experimental evidence for the carcinogenicity of crude and processed coal tar is also abundant. Skin painting tests using unprocessed tar on mice and rabbits lead Grigoriev to conclude that this material had marked carcinogenic properties and acted as an absorbed toxin producing fatigue, weight loss and early death in the animals (Grigoriev, 1960). More recently, a U. S. Department of Energy report (1982) summarized the acute and chronic toxicity testing of by-product tars and other by-products/wastes from pilot-scale coal gasification facilities. The nature and variety of test results reported are too numerous to itemize here; however, the DOE report concludes that toxicants, including carcinogens, are present in coal gasification by-product tars, and, to a lesser extent in by-product oils. Overall, however, these authors concluded that the levels of toxicity for these materials were "relatively low".

An excellent review of the biologic effects of human and animal exposure to coal tar and coal tar constituents may be found in the NIOSH Criteria Document: Recommendations for an Occupational Exposure Standard for Coal Tar Products (1977).

Coal tars are complex mixtures of numerous organic and inorganic chemicals, many of which are known individually to be carcinogenic based on human and animal studies. Thus, observed health effects cannot be readily attributed to any one component or group of constituents in the tars. Nevertheless, recent work performed by the Oak Ridge and Argonne National Laboratories (DOE, 1982) attempted to establish relationships between toxicity and chemical class. These studies showed that aromatic bases are responsible for 35 to 95 percent of the tar mutagenicity while contributing less than 5 percent of the mass of most of the tars tested. Predominant components in the basic fractions of tars analyzed were primary aromatic amines (PAA) and azarenes with the PAA responsible for most of the mutagenicity. PAA species having 3 or more rings were the most mutagenic. Neutral components (including polycyclic aromatic hydrocarbons (PAH) and heterocyclic PAH) accounted for 50 to 70 percent of the mass of the tars and heavy condensates tested. These components contributed up to 50 percent of the total tar mutagenicity.

ECOLOGICAL EFFECTS RELATED TO COAL TAR

The potential for contamination of groundwater and surface waters from improperly disposed coal gasification tar has been studied using aqueous extracts of a tar generated by a pilot-scale gasifier (Cowser, 1981 and 1982). Whereas slightly water soluble species such as naptha-

lenes required several hours to enter an aqueous phase, phenolic compounds required but a few seconds. A wide variety of tar components were determined to penetrate underlying water in simulated tar spills.

In vitro teratogenicity and toxicity of an aqueous extract of tar to frog embryos were also studied. Embryo growth was retarded at relatively low concentrations (0.25%). Dose-dependent malformations of the spine, head, eyes and viscera were observed along with abnormal cartilage formations. Embryo pigmentation and motility were reduced at concentrations of 0.5% and higher. The tar acids were found to be most lethal while high teratogenic activity was observed in both the neutral and basic tar fractions.

Other work performed by Oak Ridge National Laboratory has measured acute and chronic toxicities of individual compounds present in coal gasification tar for *Daphnia*, fathead minnows and algae (Cowser, 1982).

References

1. American Conference of Governmental Industrial Hygienists, Threshold Limit Values for Chemical Substances in Work Air Adopted by ACGIH for 1982, ACGIH, Cinn. OH, 1982.
2. Ball, C. B., Tar Cancer, Trans. Acad. Med. (Ireland), 3:318-321, 1885.
3. Cookson, H. A., Epithelioma of the Skin After Prolonged Exposure to Creosote, Brit. Med. J., 1: 368, 1924.
4. Cowser, K. E. (ed.), Life Sciences Synthetic Fuels Semiannual Progress Report for the Period Ending June 30, 1981, ORNL/TM-7926, 1981, Oak Ridge National Laboratory, Oak Ridge, TN.
5. Cowser, K. E. (ed.), Life Sciences Synthetic Fuels Semiannual Progress Report for the Period Ending December 30, 1981, ORNL/TM-8229, Oak Ridge National Laboratory, Oak Ridge, TN.
6. Grigoriev, Z. E., Carcinogenic Properties of Pechora Coal Tar, Vopr. Onkol., 6:83-86, 1960 (Rus.).
7. Hammond, E. C. et al., Inhalation of Benzpyrene and Cancer in Man, Ann. NY Acad. Sci., 271:116-124, 1976.
8. Henry, S. A., Occupational Cutaneous Cancer Attributed to Certain Chemicals in Industry, Brit. Med. Bull., 4:389-401, 1947.
9. Kawai, M. et al., Epidemiologic Study of Occupational Lung Cancer, Arch. Environmental Health, 14:859-864, 1967.
10. Kennaway, E. L. and Kennaway, N. M., A Further Study of the Incidence of Cancer of the Lung and Larynx, Brit. J. Can., 1:260-298, 1947.
11. Lenson, N., Multiple Cutaneous Carcinoma After Creosote Exposure, N. England J. Med. 254: 520-522, 1956.
12. Lloyd, J. W., Long-term Mortality Study of Steel Workers V - Respiratory Cancer in Coke Plant Workers, J. Occup. Med., 13:53-68, 1971.
13. Marzundar, S. et al., An Epidemiologic Study of Exposure to Coal Tar Pitch Volatiles Among Coke Oven Workers, J. APCA;, 25: 382-389, 1975.
14. National Institute for Occupational Safety and Health, Health Hazard Evaluation Determination Report No. 75-102-304, NIOSH, Cinn. OH, 1976.
15. National Institute for Occupational Safety and Health, Criteria for a Recommended Standard - Occupational Exposure to Coal Tar Products, NIOSH Publication No. 78-107, September 1977.

16. Pott, P., Cancer Scroti, in Chirurgical Observations Relative to the Cataract, the Polypus of the Nose, the Cancer of the Scrotum, the Different Kinds of Ruptures, and the Mortifications of the Toes and Feet, London, Hawes L., Clarke W., and Collins R., 1775.
17. Redmond, C. K. et al., Long-term Mortality Study of Steelworkers, VI - Mortality from Malignant Neoplasms Among Coke Oven Workers, J. Occup. Med., 14:621-629, 1972.
18. Redmond, C. K. et al., Cancer Experience Among Coke By-Product Workers, Ann. N. Y. Acad. Sci., 271:102-115, 1976.
19. U. S. Department of Energy, Status of Health and Environmental Research Relative to Coal Gasification 1976 to the Present, DOE/ER-0149, October 1982.