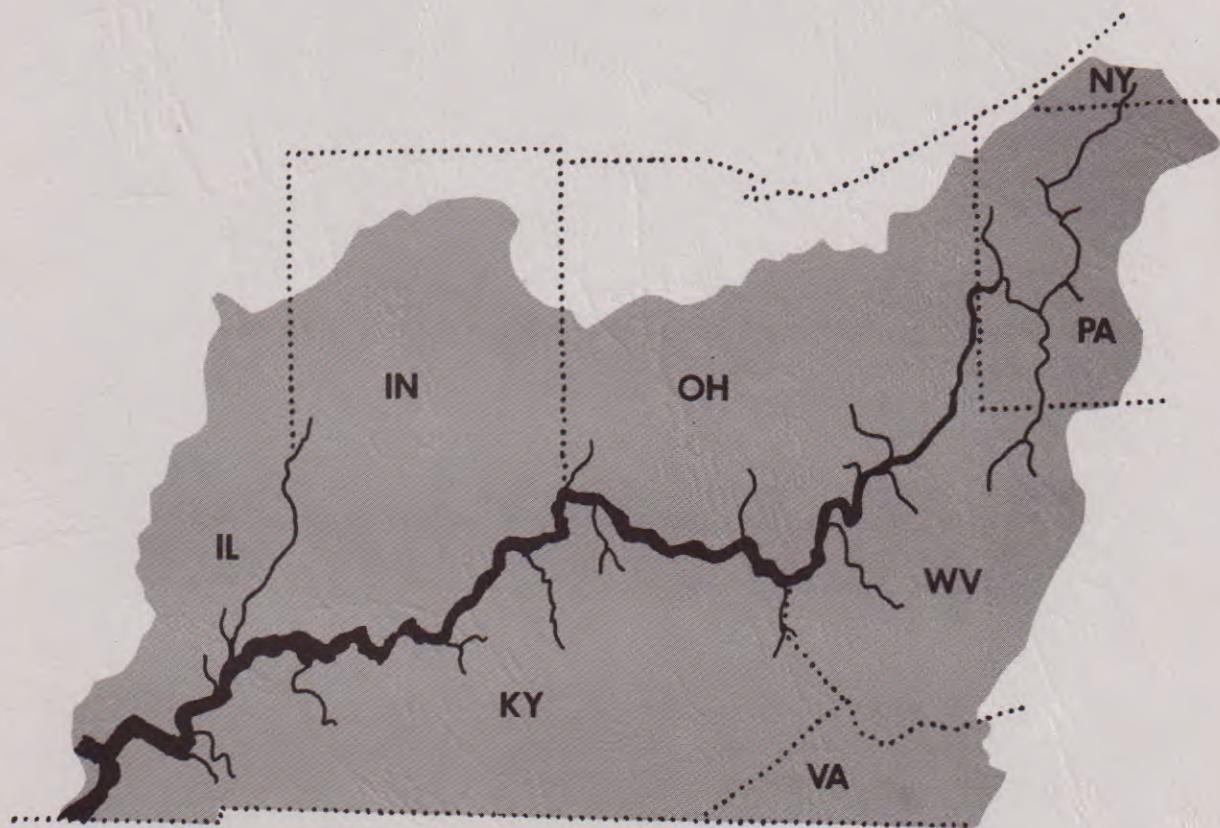


# **1983 Status of Wastewater Facilities**



**Ohio River Valley  
Water Sanitation Commission**

**REGULATORY AGENCIES OF THE STATES SIGNATORY TO THE  
OHIO RIVER VALLEY WATER SANITATION COMPACT**

**ILLINOIS**

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518/457-6674

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Division of Water Resources  
Dept. of Natural Resources  
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Charleston, WV 25311  
304/348-2107

STATUS OF WASTEWATER FACILITIES  
IN THE  
OHIO RIVER VALLEY WATER SANITATION  
COMPACT DISTRICT

1983 Update

Ohio River Valley Water Sanitation Commission  
414 Walnut Street      Cincinnati, Ohio 45202

August, 1984

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## I. SUMMARY

This report presents the results of a 1983 survey of the status of municipal and industrial wastewater treatment facilities located in the Ohio River Valley Water Sanitation Compact District. The objective of the survey is to provide an inventory and assessment of facilities, treatment levels according to physical process units, and needs for improvements and status of projects. Additional data is summarized and discussed regarding permit compliance, facility age, basis of needed improvements and receiving stream impacts. Detailed summaries and analyses of the data are also provided according to state and river sub-basin location of plants. A comparison is made to similar data obtained in 1980. A total of 1,176 municipal and 119 industrial treatment facilities, existing and proposed, were surveyed.

In general, the data indicate that some progress is being achieved in the completion of municipal projects, particularly with respect to completion of advanced wastewater treatment plants. However, 44 percent of the existing municipal plants surveyed continue to need major improvements as of 1983.

An extended survey directed toward those existing municipal facilities needing a major improvements project, a total of 692 plants, indicated significant NPDES compliance problems exist for about one-half of those plants. About eleven percent of the plants with needs in 1983 have been constructed within the last ten years. Construction of improvements to 204 municipal plants with current needs will not produce significant positive impacts to their receiving stream. Discharges from 157 facilities are producing major negative impacts.

A categorization of survey data according to river sub-basin indicates that the Wabash River Sub-basin, the Ohio River's Minor Tributaries Sub-basin, and the Ohio River mainstem are the river sub-basins with the greatest number of municipal plants. Streams in the Ohio River's Minor Tributaries sub-basin are receiving flows from the most municipal plants causing major negative water quality impacts.

The Ohio River mainstem receives flows from more industrial facilities than any other sub-basin and has the most industrial facilities with needs. Overall, only 7 percent of existing industrial wastewater treatment plants in the Compact district needed capital construction projects in 1983.

The following are the observations and conclusions revealed by the 1983 Wastewater Facilities Status Survey:

1. The number of advanced municipal waste treatment plants on line increased by 50 percent (235 to 345) over the period 1980 to 1983 serving an additional 1.5 million people. In addition, 18 advanced treatment plants serving 0.41 million people are now under construction.
2. Less than secondary treatment, as defined by US EPA, is currently being provided for 1.14 million people in 1983 as opposed to almost 2 million in 1980. Six secondary treatment plants are now under construction for 0.65 million population.
3. The number of existing municipal plants needing major improvements was reduced from 874 in 1980 to 691 in 1983 - 21 percent.

4. Needs for new municipal plants fell from 343 in 1980 to 280 in 1983 - 18 percent.
5. There was a two-thirds reduction in the number of existing industrial plants with project needs, from 150 in 1980 to 48 in 1983.
6. There is currently no need for new industrial wastewater treatment plants in the Compact District.
7. The number of current municipal facility projects in 1983 was reduced by 181; 20 percent from 1980.
8. The number of current industrial projects in 1983 was reduced by over 60 percent.

The following observations and conclusions were identified from data obtained in the 1983 extended survey of municipal facilities with needs:

9. About one-half of the municipal facilities with project needs in 1983 are regularly in compliance or experience occasional minor violations of their NPDES permits (352 plants).
10. Continuing NPDES non-compliance was noted for 113 plants serving 0.55 million people.
11. About eleven percent of the total of 692 facilities with project needs in 1983 received major improvements within the last 10 years. These facilities serve a total of 1.79 million people.

12. About three-quarters of the facilities needing expansion are currently overloaded by either dry weather flows or severe infiltration/inflow.
13. Discharges from 158 plants serving 2.05 million people are causing major negative impacts on the receiving stream.
14. Water quality impacts from 204 plants with project needs serving 0.90 million people were determined as negligible, or not readily discernible to the health of the receiving stream.

The following observations and conclusions resulted from comparative data summaries by river sub-basin.:

15. The Wabash River Sub-basin is the sub-basin with the largest number of municipal wastewater treatment plants (312). The Ohio River's Minor Tributaries Sub-basin (186) and the Ohio River mainstem (128) are second and third respectively.
16. The Green River Sub-basin has the highest percentage of municipal facilities causing major receiving stream impacts; specifically 73 percent or 8 of 11 plants.
17. The Ohio River is the site of the greatest number of industrial wastewater treatment plants (129) and those plants with needs (11). Five plants are under construction.
18. In the Wabash River Sub-basin, all 9 industrial plants with needs are under construction.

## II. INTRODUCTION, BACKGROUND AND SCOPE

This report presents the results of a 1983 survey of the status of wastewater treatment plants conducted by the Ohio River Valley Water Sanitation Commission (ORSANCO). The wastewater facilities status survey was first undertaken by the Commission in 1951. It serves to fulfill the following objectives:

1. Provide a determination of the extent to which the member states are meeting their expressed commitment to each other; that is, "...faithful cooperation in the control of future pollution in and abatement of existing pollution from rivers, streams and water in the Ohio River Basin..."
2. Provide a regular and timely compilation of wastewater control facilities discharging to surface waters within the Compact District to provide a record of both accomplishments and needs for the installation of such facilities.

Since its inception, the survey has been subject to periodic general reviews to determine the efficacy of the data base, reporting procedures and reporting frequency relative to current state and federal programs. A review of the 1979 survey data base was undertaken which resulted in significant revisions as reflected in the 1980 survey. At the conclusion of the 1981 survey a brief comparative analysis of 1980 and 1981 data was completed to assess annual rates of change in field conditions and to determine the appropriate frequency of conducting future surveys. Based on this analysis, the survey frequency was reduced to a quadrennial comprehensive review of all facility data (next scheduled for 1985). In addition, an interim update of those facilities reported as needing a major improvements project

would be undertaken on a biennial frequency. This report presents the results of the 1983 interim data update.

Figure 1 depicts the Compact District which is the geographical limit of the survey study area. The survey included both municipal and industrial wastewater treatment plants. The following facilities are not subject to the Commission's survey:

1. Facilities which do not discharge to surface waters (sink hole, underground injection, land application discharges);
2. Privately owned domestic sewage treatment facilities (such as mobile home parks, camping facility package plants) and process discharges from industrial facilities of 40,000 gallons per day or less;
3. Industrial facilities requiring temperature adjustment only (non-contact cooling water);
4. Industrial facilities supporting the coal industry (mine drainage, coal preparation).

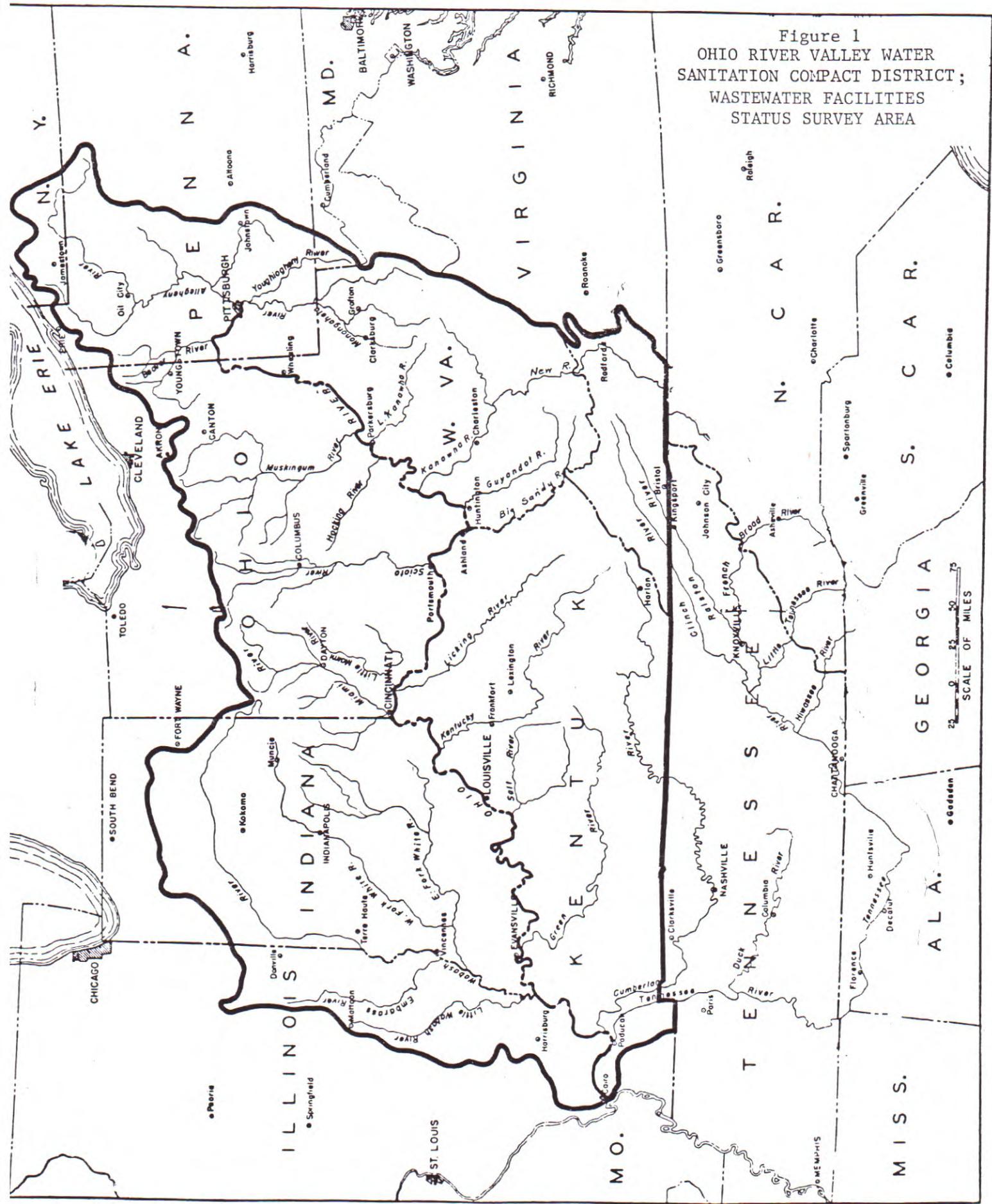
### III. METHOD

#### A. General

The survey results are based on existing data from previous updates revised through searches of state files and interviews with state personnel.

Appendix A contains the projects' Instructional Guide and Coding Key and data reporting form, which define and display respectively the data for each facility surveyed.

Figure 1  
OHIO RIVER VALLEY WATER  
SANITATION COMPACT DISTRICT;  
WASTEWATER FACILITIES  
STATUS SURVEY AREA



These guides, along with facility data previously collected and listed on the standard form, were utilized in the field survey element of the project. Reporting for most facilities was accomplished through staff visits to regional and headquarters offices of the states' water quality management agencies. In some cases, data review was accomplished via mailings as noted below:

<u>State</u>	<u>Field Office (District)</u>	<u>Method of Update</u>
IL	Champaign (central)	Staff visit
	Marion (south)	Staff visit
IN	Indianapolis (home office)	Staff visit, mail
KY	Bowling Green	Mail
	Florence	Staff visit
	Frankfort	Staff visit
	London	Staff visit
	Madisonville	Staff visit
	Morehead	Staff visit
	Paducah	Staff visit
NY	Albany (home office)	Mail
OH	Bowling Green (northwest)	Staff visit
	Columbus (central)	Staff visit
	Dayton (southwest)	Staff visit
	Logan (southeast)	Staff visit
	Twinsburg (northeast)	Staff visit
PA	Meadville	Mail
	Pittsburgh	Staff visit
VA	Abingdon	Staff visit
	Roanoke	Staff visit
WV	Charleston (home office)	Staff Visit

At the completion of the field survey portion of the study, the data was encoded and summary reports were generated.

#### B. The 1983 Survey

The objectives of the 1983 Survey were:

1. To update the status of those facilities noted in the previous (1981) comprehensive survey as requiring upgrading, expansion, upgrading and expansion or replacement to meet state requirements.
2. To update the status of new facilities treating wastewater previously not subjected to treatment at a central plant.
3. To obtain additional special information, on a one-time basis, on permit compliance, facility age, basis of needed improvements and receiving stream impacts.

During the period May - September, 1983, 1,176 municipal and 119 industrial treatment plants were surveyed. Data for those facilities noted in 1981 as meeting state requirements were not updated (395 municipal, 539 industrial). These facilities were assumed to continue to meet state requirements.

#### IV. DATA RESULTS

##### A. General

Appendix B contains detailed summaries of the 1983 data base. The data are summarized according to state location as well as river basin location and are further categorized by the following subjects:

- Facility Needs
  - I. Existing Facilities
  - II. New Facilities
- Type of Treatment Currently Provided
- Status of Projects
- Special Survey - 1983

The following sections provide a listing of: the status and needs of municipal and industrial facilities and populations served by state and by river basin; an evaluation of progress achieved over the period 1980-1983; and an analysis of observations made possible by the special data accumulated during the 1983 update project.

B. Conditions by State, 1983

a. Treatment Provided

The level of physical treatment units provided by municipal facilities in 1983 is summarized in Table 1. A total of 1,571 publicly owned facilities served an aggregate population of 13,376,663. The basinwide totals of individual levels of treatment are detailed by state in Table 2.

Table 1

Summary of Levels of Physical Treatment Units Provided  
by Municipal Facilities, 1983

<u>Level of Treatment</u>	<u>Number</u>	<u>Percentage of Total</u>	<u>Population</u>	<u>Percentage of Total</u>
Less Than Secondary*	173	11	1,135,260	8
Secondary	1,053	67	9,542,671	71
Advanced	<u>345</u>	<u>22</u>	<u>2,698,732</u>	<u>21</u>
Total	1,571	100	13,376,663	100

\* Those facilities without physical units designed for secondary level treatment as defined by US EPA.

The 1983 survey identified 658 industrial plants; this is about 42 percent of the number of publicly owned facilities. Due to the variance in character and associated treatment processes required of industrial wastes, no

Table 2

## LEVELS OF PHYSICAL TREATMENT UNITS PROVIDED BY STATE, 1983

Municipal Facilities <sup>1</sup>	<u>IL</u>	<u>IN</u>	<u>KY</u>	<u>NY</u>	<u>OH</u>	<u>PA</u>	<u>VA</u>	<u>WV</u>	<u>TOTAL</u>
Less than Secondary	12	11	9	5	47	20	31	38	173
<b>Population</b>	<b>22,192</b>	<b>51,070</b>	<b>21,809</b>	<b>11,390</b>	<b>479,249</b>	<b>153,498</b>	<b>91,344</b>	<b>304,708</b>	<b>1,135,260</b>
Secondary	50	180	241	7	256	188	15	116	1,053
<b>Population</b>	<b>155,768</b>	<b>1,059,410</b>	<b>1,671,712</b>	<b>82,170</b>	<b>2,868,092</b>	<b>2,901,933</b>	<b>42,276</b>	<b>761,310</b>	<b>9,542,671</b>
Advanced	37	105	84	1	87	21	4	6	345
<u>Total</u> <b>Population</b>	<u>222,520</u>	<u>1,174,419</u>	<u>414,044</u>	<u>7,030</u>	<u>578,289</u>	<u>237,320</u>	<u>34,850</u>	<u>30,260</u>	<u>2,698,732</u>
Total	99	296	334	13	390	229	50	160	1,571
<b>Population</b>	<b>400,480</b>	<b>2,284,899</b>	<b>2,107,565</b>	<b>100,590</b>	<b>3,925,630</b>	<b>3,292,751</b>	<b>168,470</b>	<b>1,096,278</b>	<b>13,376,663</b>
<u>Industrial Facilities<sup>2,3</sup></u>	<u>11</u>	<u>136</u>	<u>71</u>	<u>19</u>	<u>162</u>	<u>166</u>	<u>11</u>	<u>82</u>	<u>658</u>

<sup>1</sup> Does not include privately owned facilities designed for or treating 40,000 gal/day or less

<sup>2</sup> Does not include: Facilities designed for or treating 40,000 gal/day or less  
Facilities designed for temperature adjustment only  
Facilities related to the coal-mining and processing industry

<sup>3</sup> Number of facilities only

treatment level classifications for industrial wastewater treatment plants have been listed.

b. Facility Needs

The status of needs for improved or new municipal and industrial facilities are summarized below in Table 3, with state-by-state totals listed in Table 4. A total of 595 existing municipal plants require either increased treatment or a combination of increased treatment and capacity. Complete replacement is needed for 96 municipal plants.

Table 3

Summary of Municipal Plant Needs, 1983

<u>Needs</u>	<u>Number of Facilities</u>	<u>Percentage of Total</u>
<b>Existing Facilities</b>		
No needs identified	881	56
Increase Treatment to secondary*	160	10
Increase treatment to advanced*	366	23
Increase capacity only	69	5
Replacement	<u>96</u>	<u>6</u>
Total	1,572	100
<b>New Facilities (no current treatment)</b>		
Secondary	173	62
Advanced	<u>107</u>	<u>38</u>
Total	280	100

\* Includes facilities needing additional treatment capacity

Industry facility needs are summarized below as Table 5 with state-by-state breakouts provided in Table 6. Needs have been

Table 4

## MUNICIPAL WASTEWATER FACILITY NEEDS BY STATE, 1983

<u>Existing Facilities</u>	<u>IL</u>	<u>IN</u>	<u>KY</u>	<u>NY</u>	<u>OH</u>	<u>PA</u>	<u>VA</u>	<u>WV</u>	<u>TOTAL</u>
Needs									
Increase treatment to secondary <sup>2</sup>	8	10	16	3	44	18	22	39	160
Increase treatment to advanced	27	86	64	2	150	9	1	27	366
Increase in capacity only	3	17	16	0	19	12	0	2	69
Replacement	8	0	31	1	27	10	9	10	96
—	—	—	—	—	—	—	—	—	—
Total Facilities with Needs	46	113	127	6	240	49	32	78	691
No Needs Identified	53	182	207	7	150	182	18	82	881
13 Total Existing Facilities	99	295	334	13	390	231	50	160	1,572
<u>New Facilities</u> (treatment not currently provided)									
Secondary Treatment		1	24	12	0	22	30	4	80
Advanced Treatment		2	38	2	0	45	2	0	18
Total New Facilities	3	62	14	0	67	32	4	98	280

<sup>1</sup> Does not include privately owned facilities designed for or treating 40,000 gal/day or less

<sup>2</sup> Includes facilities needing additional treatment and capacity

identified for 48 of 658 industrial facilities in 1983. Thirty-three industrial plants require an increase in treatment only; fifteen plants need either replacement, an increase in capacity and treatment or only capacity. There are no reported current needs for new industrial plants.

Table 5

Summary of Industrial Plant Needs, 1983

<u>Needs</u>	<u>Number of Facilities</u>	<u>Percentage of Total</u>
<b>Existing Facilities</b>		
No needs identified	610	93
Increase treatment only	33	5
Increase capacity only	1	-
Increase treatment & capacity	7	1
Replacement	<u>7</u>	<u>1</u>
Total	658	100
<b>New Facilities (no current treatment)</b>		
	0	

c. Wastewater Facility Projects

The 1983 survey identified a total of 736 municipal and 30 industrial wastewater facility projects under study, design or construction. Data on municipal projects showed that 532 are in the initial or study phase of development; 110 are in construction. Seven industrial projects are undergoing studies; fifteen are under construction. An overall summary of this data is shown below in Table 7. Table 8 lists the data by state.

Table 6

## INDUSTRIAL WASTEWATER FACILITY NEEDS BY STATE, 1983

<u>Existing Facilities<sup>1</sup></u>	<u>IL</u>	<u>IN</u>	<u>KY</u>	<u>NY</u>	<u>OH</u>	<u>PA</u>	<u>VA</u>	<u>WV</u>	<u>TOTAL</u>
Needs									
Increase treatment only	0	5	0	0	14	10	0	4	33
Increase capacity only	0	1	0	0	0	0	0	0	1
Increase treatment and capacity	0	2	0	0	2	2	0	1	7
Replacement	0	0	1	0	2	4	0	0	7
—	—	—	—	—	—	—	—	—	—
Total Facilities with Needs	0	8	1	0	18	16	0	5	48
No Needs Identified	11	128	70	19	144	150	11	77	610
15 Total Existing Facilities	11	136	71	19	162	166	11	82	658
New Facilities (treatment <sup>1</sup> not currently provided)	0	0	0	0	0	0	0	0	0

<sup>1</sup> Does not include: Facilities designed for or treating 40,000 gal/day or less  
 Facilities designed for temperature adjustment only  
 Facilities related to the coal-mining and processing industry

Table 7  
Summary of Number and Status of Projects, 1983

<u>Phase of Project</u>	<u>Number of Projects</u>		<u>Percentage of Total</u>	
	<u>Municipal</u>	<u>Industrial</u>	<u>Municipal</u>	<u>Industrial</u>
Studies (Step I)*	532	7	72	23
Design (Step II)	94	8	13	27
Construction (Step III)	<u>110</u>	<u>15</u>	<u>15</u>	<u>50</u>
Total	736	30	100	100

**Project Needed - No**

action taken 211 17

### Project Needed - Preliminary

## **action taken** 114 16

\* Includes projects for facilities whether or not needs have been identified.

## V. COMPARISON OF OVERALL CONDITIONS, 1980-1983

#### A. General Findings

A comparative analysis of the 1980 and 1983 survey data indicates significant progress in all subject areas addressed by the survey. General findings and observations are:

- o A total of 1,571 municipal and 658 industrial facilities comprise the 1983 survey data base. Due to the construction of regional municipal plants and apparent decreases in industrial production resulting in the closure of associated environmental control facilities, the total number of municipal and industrial plants declined by 24 and 118 respectively.

Table 8

## STATUS OF WASTEWATER FACILITY PROJECTS BY STATE, 1983

<u>Phase of Project</u>	<u>IL</u>	<u>IN</u>	<u>KY</u>	<u>NY</u>	<u>OH</u>	<u>PA</u>	<u>VA</u>	<u>WV</u>	<u>TOTAL</u>
<b>Municipal Facilities</b>									
Studies (Step I) <sup>1</sup>	19	114	77	2	172	26	15	107	532
Design (Step II)	18	9	12	2	23	6	8	16	94
Construction (Step III)	8	24	23	1	24	9	6	15	110
—	—	—	—	—	—	—	—	—	—
<b>TOTAL</b>	45	147	112	5	219	41	29	138	736
Project Needed--No Action Taken	1	33	68	0	44	34	0	31	211
Project Needed--Preliminary Action Taken	4	1	10	2	64	10	7	16	114
17									
<b>Industrial Facilities</b>									
Studies	0	1	0	0	2	1	0	3	7
Designs	0	1	1	0	1	4	0	1	8
Construction	0	1	1	0	7	4	0	2	15
—	—	—	—	—	—	—	—	—	—
<b>TOTAL</b>	0	3	2	0	10	9	0	6	30
Project Needed--No Action Taken	0	2	3	0	6	3	0	3	17
Project Needed--Preliminary Action Taken	0	3	1	0	5	5	0	2	16

1 Includes projects which have no identified needs

- o An estimated 13.38 million people are now served by central publicly (municipal) and privately owned treatment facilities, a net increase of 0.02 million (20,000) since 1980.
- o There has been a significant shift in the relative numbers of and populations served by less than secondary, secondary and advanced municipal waste treatment plants (Table 9). The number of advanced treatment plants increased by 50 percent (235 in 1980, 345 in 1983); these plants served an additional one and one-half million people. In addition, 18 advanced treatment plants which will serve an estimated 410,000 people are now under construction.
- o Less than secondary treatment facilities are being provided for 1.14 million in 1983 as opposed to almost 2 million in 1980. Six secondary treatment plants are now under construction for 650,000 people.
- o The number of existing municipal plants needing major improvements was reduced 21 percent, from 874 in 1980 to 691 in 1983. The need for new plants fell from 343 in 1980 to 280 in 1983 (Table 10).
- o The number of existing industrial facilities with needs was reduced 68 percent from 150 in 1980 to 48 in 1983. There is currently no need for new industrial wastewater treatment plants in the Compact District (Table 10).

B. Facility Projects

Summaries of status of wastewater facility projects are provided in Table 11.

Table 9

## LEVELS OF MUNICIPAL TREATMENT, 1980-1983

Level of Treatment	Number		% of Total		Population (Millions)		% of Total	
	1980	1983	1980	1983	1980	1983	1980	1983
Less than reliable								
secondary	215	173	13	11	1.96	1.14	15	8
Secondary	1,145	1,053	72	67	10.30	9.54	77	71
Advanced	235	345	15	22	1.10	2.70	8	21
	—	—	—	—	—	—	—	—
TOTAL	1,595	1,571	100	100	13.36	13.38	100	100

Table 10

## COMPARISON OF MUNICIPAL AND INDUSTRIAL WASTEWATER FACILITY NEEDS, 1980-1983

<u>Municipal Facilities</u>	<u>Number</u>	<u>% Change</u>
	<u>1980</u>	<u>1983</u>
<b>Needs - Existing Plants:</b>		
Increase Treatment to Secondary	154	+ 4
Increase Treatment to Advanced	468	-22
Increase in Capacity Only	109	-37
Replacement	143	-33
—	—	
<b>Total Facilities with Needs</b>	<b>874</b>	<b>-21</b>
No Needs Identified	721	+22
<b>Needs - New Plants</b>	<b>343</b>	<b>-18</b>
 <b>Industrial Facilities</b>		
<b>Needs - Existing Plants:</b>		
Increase Treatment or Increase Treatment and Capacity	121	-67
Increase Capacity	13	-92
Replacement	16	-56
—	—	
<b>Total Facilities with Needs</b>	<b>150</b>	<b>-68</b>
No Needs Identified	626	- 3
<b>Needs - New Plants</b>	<b>23</b>	<b>-100</b>

Table 11

## COMPARISON OF STATUS OF MUNICIPAL AND INDUSTRIAL FACILITY PROJECTS, 1980-1983

<u>Phase of Projects</u>	<u>Number</u>		<u>% Change</u>
	<u>1980</u>	<u>1983</u>	<u>1980-1983</u>
<b>Municipal Facilities</b>			
Studies (Step 1)	573	532	- 7
Design (Step 2)	209	94	-55
Construction (Step 3)	135	110	-19
—	—	—	
Total	917	736	-20
Project needed - studies not initiated	395	325	-18
 <b>Industrial Facilities</b>			
Studies	20	7	-65
Designs	15	8	-47
Construction	44	15	-66
—	—	—	
Total	79	30	-62
Project needed - studies not initiated	93	33	-65

- o Corresponding with the net change of 180 municipal plants which no longer have project needs, the number of projects in the Compact District in 1983 were reduced by 181, a change of 20 percent over the number of projects identified in 1980.
- o Industrial projects were reduced by over 60 percent from the period 1980 to 1983.
- o In 1983, there were 325 municipal facilities which needed improvements but did not have an active project. This is an 18 percent reduction in the number of plants with needs but without an associated project in 1980.
- o In 1983, there were 33 industrial facilities which needed improvements but did not have an active project. This is a 65 percent reduction in the number of plants with needs but without an associated project in 1980.

#### VI. EXTENDED SURVEY OF MUNICIPAL FACILITIES WITH NEEDS, 1983

The 1983 extended survey was intended to provide additional information for the purpose of defining the bases of a needed project, characterize the age of the facility and estimate current effects on the surface stream receiving its discharge. The need for the extension of data was predicated on the apparent high proportion of municipal facilities requiring an improvements project. Specifically, 63 percent and 62 percent respectively of all municipal facilities surveyed in 1980 and again in 1981 required improvements. Data items and associated definitions comprising the extended survey are included in the data Instructional Guide and Coding Key included in Appendix A.

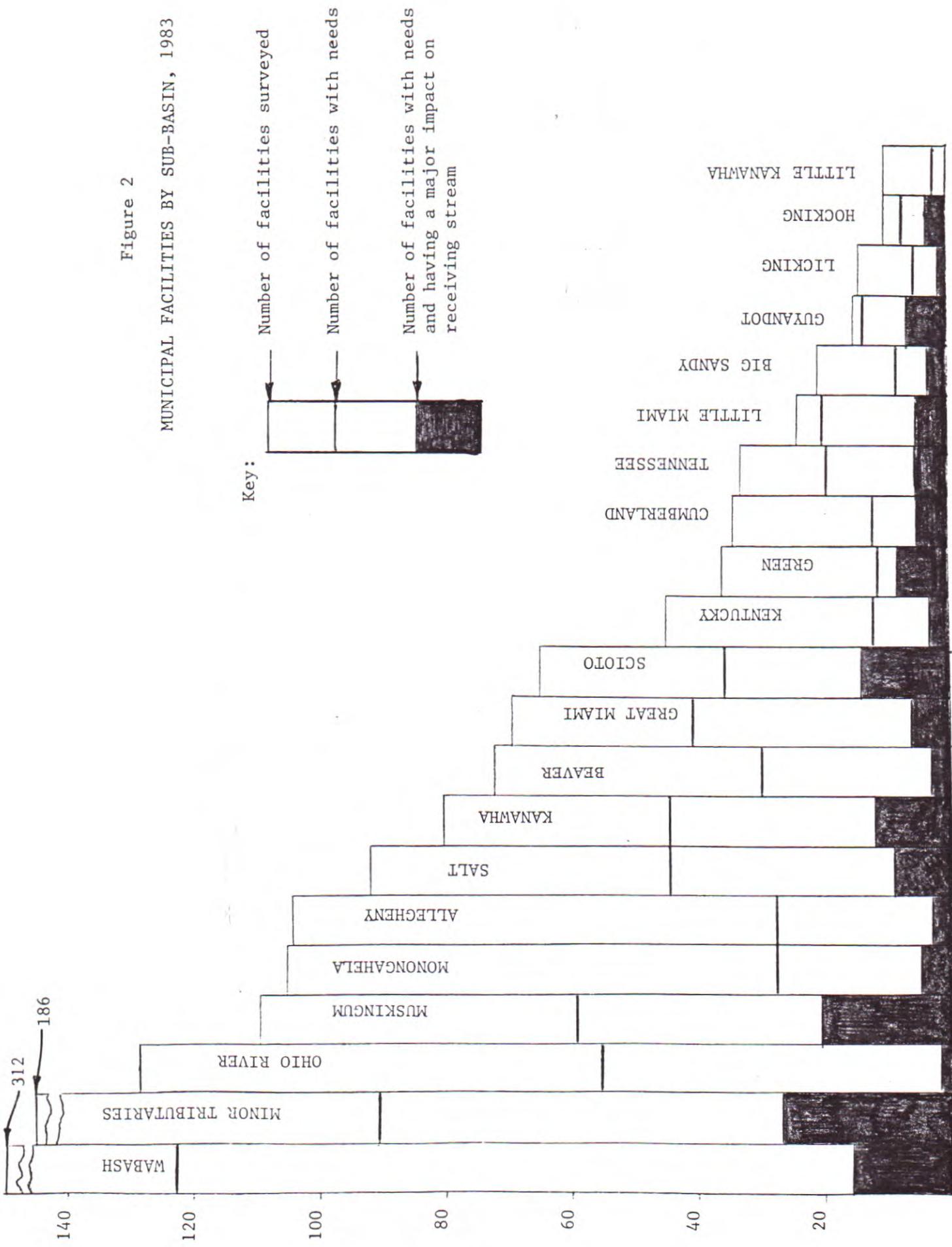
Table 12

## EXTENDED SURVEY OF EXISTING MUNICIPAL FACILITIES WITH NEEDS, 1983

	<u>Facilties</u>	<u>Population</u>	<u>Percent of Facilities Evaluated</u>	<u>Percent of Population Evaluated</u>
TOTAL FACILITIES WITH NEEDS	692	5,613,338	-	-
<u>NPDES Permit Compliance:</u>				
Facilities Evaluated	657	5,435,426	100	100
Continuing Non-Compliance	113	546,125	17	10
Occasional Non-Compliance or I/I	192	832,232	29	15
In Compliance	352	4,057,069	54	75
<u>Age of Facility:</u>				
Facilities Evaluated	665	5,352,232	100	100
< 10 years	71	1,788,546	11	33
> 10 < 20 years	300	1,757,416	45	33
> 20 years	294	1,806,370	44	34
<u>Reason For Facility Expansion:</u>				
Facilities Evaluated	351	3,262,999	100	100
Current Overload or I/I Overload	260	2,375,488	74	73
Nearing Overload (Future Expansion)	76	809,044	22	25
Unknown	15	78,467	4	2
<u>Reason for Facility Upgrade or Replacement:</u>				
Facilities Evaluated	585	4,898,125	100	100
Failures Due to Age	83	534,952	14	11
To Meet Technology or WQ Stnds.	429	3,875,979	74	79
Abandon to Regional Plant	42	316,020	7	6
Unknown	31	171,174	5	4
<u>Current Effect on Receiving Stream:</u>				
Facilities Evaluated	680	5,649,517	100	100
Negligible	204	902,141	30	16
Minor (area of outfall)	302	2,587,720	45	44
Major	158	2,048,745	23	37
Unknown	16	110,911	2	2

Basinwide summaries of the extended survey data are shown in Table 12 and indicate the following major observations:

- o NPDES Permit Compliance - About 1/2 of the facilities with needs are regularly in compliance (these facilities may experience occasional minor violations). Facilities with needs serve 75 percent of the 5.44 million population served by the facilities evaluated. Continuing non-compliance was noted for 113 plants serving 0.55 million (average of 4,800 population per plant).
- o Age of Facility - Ten percent of the facilities with needs were constructed within the last 10 years; these facilities serve about 1/3 of the 5.61 million population served by facilities evaluated (average of 25,200 population per plant).
- o Facility Expansion - About 3/4 of the facilities needing to be expanded are now overloaded by either dry weather flows or severe infiltration/inflow resulting from rainfall.
- o Facility Upgrading - Three fourths of the facilities surveyed need to be upgraded to meet technology standards or water quality based standards; fifteen percent are failing due to age.
- o Receiving Stream Effects of Facility Discharges - Discharges from 157 of 691 plants surveyed are having major impacts on the receiving stream. These plants serve 2.05 million people. Non-detectable impacts by 204 plants were indicated; these plants serve 16 percent (902,000) of the total service population (5.61 million).



## VII. COMPARATIVE DATA SUMMARIES, BY RIVER SUB-BASIN

### A. Municipal Facilities

Figure 2 displays by river sub-basin total, number of facilities, number of facilities with needs (1983) and number of facilities indicated by the survey as having major stream impacts. Major observations of this display are as follows:

- o The Wabash Sub-basin is the location of the most municipal wastewater treatment plants (312) whereas the Hocking and Little Kanawha Sub-basins are the site of 10 plants each. Minor tributaries sub-basins and the Ohio River are the number two and three largest sub-basins in terms of number of facilities located within their boundaries.
- o Most of the municipal facilities in the Guyandot, Little Miami and Hocking Sub-basin appear to have project needs.
- o Eight of 11 facilities with needs and located in the Green River Sub-basin are producing major receiving stream impacts.

### B. Industrial Facilities

Tabulations of industrial facility needs according to river sub-basins are provided in Table 13. This summary indicates that the Wabash River Basin and the Ohio River each is the site of 11 and 9 existing industrial plants, respectively, with needs.

The 3 river sub-basins most populated with industrial plants are the Ohio River (129), Wabash (121) and Beaver (93) which account for 52 percent of all facilities surveyed.

A total of 11 river sub-basins contained no industrial facilities with needs. However, these 11 sub-basins accounted for a total of only 73 industrial plants, 11 percent of all industrial plants surveyed.

Table 13

## EXISTING INDUSTRIAL FACILITIES AND NEEDS BY RIVER SUB-BASIN, 1983

River Sub-Basin	Total	No Needs	Needs			Facilities Under Construction
			Total	Additional Treatment	Additional Capacity Only	
Ohio River	129	118	11	9	0	5
Wabash	121	112	9	8	1	0
Allegheny	93	86	7	7	0	0
Beaver	42	36	6	0	0	0
Muskingum	65	59	6	5	1	3
Monongahela	57	53	4	0	1	3
Ohio R. Minor Tribs.	26	24	2	1	1	2
Little Miami	2	1	1	0	1	0
Scioto	16	15	1	1	0	0
Kanawha	34	33	1	1	0	1
27 Little Kanawha	1	1	0	0	0	0
Guyandot	1	1	0	0	0	0
Hocking	4	4	0	0	0	0
Licking	4	4	0	0	0	0
Salt	5	5	0	0	0	0
Cumberland	6	6	0	0	0	0
Green	6	6	0	0	0	0
Big Sandy	6	6	0	0	0	0
Kentucky	9	9	0	0	0	0
Tennessee	9	9	0	0	0	0
Miami	<u>22</u>	<u>22</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	658	610	48	40	2	4
					23	

\* Includes facilities needing additional capacity

## **APPENDIX A**

- 1. Instructional Guide and Coding Key Definitions**
- 2. Detail Data Report Form**

OHIO RIVER VALLEY WATER SANITATION COMMISSION  
1983 UPDATE OF WASTEWATER TREATMENT FACILITY STATUS

Instructional Guide and Coding Key Definitions

General Instructions

1. A copy of the current listings of data are enclosed. To indicate revisions, please add or change numbers in appropriate columns (in pencil or pen) to update the information (as of midyear 1981). New community or industrial entries may be added at the bottom of the appropriate sheet listing.
2. Privately owned domestic facilities (such as mobile home parks, residences, state and federally owned facilities) and industrial facilities, less than 40,000 gal/day should be omitted. No coal related industrial facilities should be included.
3. Update only those facilities indicated as having "Facility Needs" (column entry other than "0").

Coding Key

<u>Data Item</u>	<u>Code</u>	<u>Entry</u>	<u>Remarks</u>
Type Facility	D	Domestic	Facility should be classified according to the nature of the owner.
	I	Industrial	A facility treating primarily domestic waste should be classified as industrial if it is industrially owned. A facility treating primarily industrial waste should be classified as domestic if it is publicly owned.
Name of			20 characters or less
	- Plant		Name of the plant or the subordinate community (where a plant services more than one community) or the owner of a facility (when a community or owner has more than one facility).
	- Tributary owner		
	- Plant owner		
State or NPDES ID			Optional entry at the state's discretion
County			3 digit code for county location (see attached)

<u>Data Item</u>	<u>Code</u>	<u>Entry</u>	<u>Remarks</u>
Local Basin			2 digit code for the local basin location of a facility. Enter this column if your printout is <u>not</u> arranged by local basin. A list of the basin codes are attached.
Treatment Facility Provided	0 1 2 3 4 6 7	None Primary or less Intermediate Secondary Tertiary Non-conventional, ) meets requirements) Non-conventional, ) does not meet ) requirements )	This item describes the level of treatment currently provided. Codes 6 & 7 generally pertain to industrial facilities (where the type of treatment cannot be conventionally described). Pertains to industrial facilities
Treatment Facility Required	0 1 2 3 4 5 6	None Primary or less Intermediate Secondary Tertiary Closed System Non-Conventional	The level of treatment which is needed for a facility is entered in this column. In some instances, particularly where a facility is under study, a best guess is appropriate. Items 5 and 6 generally pertain to industrial facilities.
Facility Needs	0 1 2 3 4	None New Facility Increase capacity Increase treatment level Increase capacity & level of treatment	This item is intended to summarize the overall facility needs. Enter "0" if no amount of work is necessary, or if a moderate amount of renovation is indicated that does not change the level of treatment. In the case where a facility needs extensive renovations it can be considered as a new facility (entry "1"). As in data item (300), a judgment call may be necessary in some instances where something needs to be done, but it has not yet been specifically determined.
Phase of Improvements	0 1 2 3 4 5	None required No action Action initiated In study (Step 1) In study (Step 2) In construction (Step 3)	If needs (data item 320) has been identified, but no action has been taken by the owner, enter "1", if initial actions have been taken (for example, a municipal facility owner has applied for a Step 1 grant, but there has been no award as yet) enter "2". A municipal facility awaiting a Step 2 or 3 grant should be indicated as in Step 1 (entry "3") or Step 2

<u>Data Item</u>	<u>Code</u>	<u>Entry</u>	<u>Remarks</u>
	6	Construction completed since last update	(entry "4") respectively.
Number of Municipalities and/or Entities served			Enter the total number of communities (separate political entities) served by the facility.
Entity or Facility Providing Treatment			If the entry under data item 111 is a tributary community, then the name of the regional plant is entered here. In the case where the entry under data item 111 is a plant and it is one of several owned by an entity, enter here that entity which owns this facility.
Plant or Tributary Community Population			Enter the population tributary to the facility (or tributary community).

Additional Data for 1983 - Municipal Facilities Only

Compliance with NPDES Limits	0	Consistent compliance or occasional minor violations	Ex., OF means facility consistently meets final NPDES limits.
	1	Consistently severe noncompliance	2I means facility violates interim limits occasionally
	2	Occasional severe noncompliance	
	3	Violations due to I/I	
	8	Unknown	
	I	NPDES limits are interim	
	F	NPDES limits are final	
Age of Facility	1	10 years or less	Estimate, if necessary, the age of facility relative to last major
	2	Greater than 10, less than 20 years	improvements project.
	3	20 years or over	
	8	Unknown	
Reason for Facility Expansion	1	Facility is currently hydraulically or organically over-loaded	

<u>Data Item</u>	<u>Code</u>	<u>Entry</u>	<u>Remarks</u>
	2	Facility is approaching hydraulic or organic overload	
	3	I/I related problems	
	8	Unknown	
Reason for Facility Upgrade or Replacement	1	Failures due to facility age	
	2	To meet requirements for additional treatment levels	
	3	Abandon - to regional system	
	8	Unknown	
Extent of Construction Needed	1	Minor construction	Minor construction would include pumps, etc.
	2	Major construction	Major construction would include construction of new unit process
	3	O & M Adjustment only	(tanks, etc.)
	4	Improvements to solids handling facilities only	
	8	Unknown	
Effect Facility Currently has on Receiving Stream	1	Negligible	Negligible effect indicates improved facility would not produce measurable improvements to stream.
	2	Minor	
	3	Major	Major effect constitutes violations of stream standards.
	8	Unknown	

OHIO RIVER VALLEY WATER SANITATION COMMISSION  
ORSANCO COMPACT AREA WASTEWATER FACILITIES STATUS PROGRAM

Coding Key - Local Basin

<u>Code</u>	<u>Local Basin</u>
00	Ohio River direct discharger
01	Allegheny
02	Monongahela
03	Beaver
04	Muskingum
05	Little Kanawha
06	Hocking
07	Kanawha
08	Guyandot
09	Big Sandy
10	Scioto
11	Little Miami
12	Licking
13	Miami
14	Kentucky
15	Salt
16	Green
17	Wabash
20	Cumberland
21	Ohio River minor tributaries
30	Tennessee

OHIO RIVER VALLEY WATER  
SANITATION COMMISSION

**ORSANCO COMPACT AREA  
WASTEWATER FACILITIES STATUS PROG**

PAGE \_\_\_\_\_

## **APPENDIX B**

### **PROJECT DATA DETAIL SUMMARIES**

- 1. Summaries by State**
- 2. Summaries by River Basin**

TALLY FOR ILLINOIS  
SUMMARY OF FACILITY NEEDS

PAGE ONE

I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	99	400488	11
NO IDENTIFIED NEEDS	53	248873	11
IMPROVEMENTS NEEDED	46	151607	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	25	61601	0
1. UPGRADE TO SECONDARY TREATMENT	5	8390	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	20	53211	0
TERTIARY UPGRADES UNDER CONSTRUCTION	4	13698	0
B. FACILITIES NEEDING INCREASED CAPACITY	3	14390	0
1. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	1	8978	0
2. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	2	5920	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	10	55965	0
1. UPGRADE TO SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	3	14630	0
2. UPGRADE TO TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	7	41335	0
D. FACILITIES NEEDING REPLACEMENT	8	10250	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	3	19151	0
2. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES	0	0	0
TOTAL	3	1840	0
A. SECONDARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	1	1020	0
B. TERTIARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	2	820	0
	1	328	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	3
LESS THAN RELIABLE SECONDARY TREATMENT	12
RELIABLE SECONDARY TREATMENT	50
TERtiARY TREATMENT	37
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	43
NO ACTION	1
ACTION INITIATED	4
STEP ONE	19
STEP TWO	18
STEP THREE	0
CONSTRUCTION COMPLETE	0

1848	9
22192	6
155788	0
222528	2
0	9
0	0

155284	10
986	0
4877	0
76746	0
46348	0
24260	0
0	0

MUNICIPAL FACILITIES	POPULATION
<hr/>	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED	46
COMPLIANCE WITH APPLIED NPDES LIMITS:	
FACILITIES EVALUATED	45
IN COMPLIANCE	41
CONTINUING NON COMPLIANCE	2
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	2
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	
FACILITIES EVALUATED	46
10 YEARS OR LESS	2
10 - 20 YEARS	26
OVER 20 YEARS	16
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	
FACILITIES EVALUATED	14
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	8
NEAR OVERLOAD	5
REASON FOR FACILITY EXPANSION UNKNOWN	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	
FACILITIES EVALUATED	43
FAILURES DUE TO FACILITY AGE	5
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	31
ABANDON TO REGIONAL PLANT	4
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	2
EXTENT OF NEEDED CONSTRUCTION:	
FACILITIES EVALUATED	44
MINOR CONSTRUCTION OR Q & M IMPROVEMENT	0
MAJOR CONSTRUCTION	42
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	1
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	
FACILITIES EVALUATED	46
NEGIGIBLE	14
MINOR	28
MAJOR	2
EFFECT ON RECEIVING STREAM UNKNOWN	1

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR INDIANA  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	296	2284899	136
NO IDENTIFIED NEEDS	182	1572006	128
IMPROVEMENTS NEEDED	114	712893	8
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	62	468978	5
1. UPGRADE TO SECONDARY TREATMENT	6	151060	0
SECONDARY UPGRADES UNDER CONSTRUCTION	3	144940	0
2. UPGRADE TO TERTIARY TREATMENT	75	317093	0
TERTIARY UPGRADES UNDER CONSTRUCTION	18	79370	0
B. FACILITIES NEEDING INCREASED CAPACITY	17	163564	1
1. FACILITIES WITH SECONDARY TREATMENT	13	141424	0
EXPANSION PROJECTS UNDER CONSTRUCTION	2	42100	0
2. FACILITIES WITH TERTIARY TREATMENT	2	6490	0
EXPANSION PROJECTS UNDER CONSTRUCTION	1	2552	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	15	80359	2
1. UPGRADE TO SECONDARY + EXPANSION	4	12680	0
PROJECTS UNDER CONSTRUCTION	1	1240	0
2. UPGRADE TO TERTIARY + EXPANSION	11	67679	0
PROJECTS UNDER CONSTRUCTION	2	44747	0
D. FACILITIES NEEDING REPLACEMENT	0	0	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES			
TOTAL	52	35563	0
A. SECONDARY TREATMENT REQUIRED	24	16312	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0
B. TERTIARY TREATMENT REQUIRED	38	22251	0
NEW FACILITIES UNDER CONSTRUCTION	4	2894	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	62	0
LESS THAN RELIABLE SECONDARY TREATMENT	11	0
RELIABLE SECONDARY TREATMENT	180	2
TERtiARY TREATMENT	105	2
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0	123
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0	9

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	131	117
NO ACTION	33	2
ACTION INITIATED	1	3
STEP ONE	114	1
STEP TWO	9	1
STEP THREE	24	1
CONSTRUCTION COMPLETE	0	0

1983 ORSAND WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR INDIANA

	MUNICIPAL FACILITIES	PUPULATION
<b>EXISTING FACILITIES WITH IMPROVEMENT NEEDED</b>		
COMPLIANCE WITH APPLIED NPDES LIMITS:		
FACILITIES EVALUATED	114	712893
IN COMPLIANCE	109	657586
CONTINUING NON COMPLIANCE	67	438280
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	14	64568
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	28	154746
AGE OF FACILITY:	0	0
FACILITIES EVALUATED	114	712893
10 YEARS OR LESS	12	103283
10 - 20 YEARS	44	237088
OVER 20 YEARS	46	219836
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0	0
REASON FOR FACILITY EXPANSION:		
FACILITIES EVALUATED	35	247697
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	26	90642
NEAR OVERLOAD	5	48435
REASON FOR FACILITY EXPANSION UNKNOWN	7	62557
REASON FOR FACILITY UPGRADE OR REPLACEMENT:		
FACILITIES EVALUATED	99	591258
FAILURES DUE TO FACILITY AGE	38	300691
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	41	124083
ABANDON TO REGIONAL PLANT	3	5530
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	22	118091
EXTENT OF NEEDED CONSTRUCTION:		
FACILITIES EVALUATED	114	712893
MINOR CONSTRUCTION OR O & M IMPROVEMENT	30	218951
MAJOR CONSTRUCTION	57	213372
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	20	114467
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:		
FACILITIES EVALUATED	114	712393
NEGIGIBLE	48	331215
MINOR	39	261400
MAJOR	14	64410
EFFECT ON RECEIVING STREAM UNKNOWN	10	100005

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR KENTUCKY  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	334	2107565	71
NO IDENTIFIED NEEDS	207	1162637	78
IMPROVEMENTS NEEDED	127	944928	1
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	68	583366	0
1. UPGRADE TO SECONDARY TREATMENT	10	431886	0
SECONDARY UPGRADES UNDER CONSTRUCTION	2	488543	0
2. UPGRADE TO TERTIARY TREATMENT	50	74998	0
TERTINARY UPGRADES UNDER CONSTRUCTION	2	2948	0
B. FACILITIES NEEDING INCREASED CAPACITY	16	241690	0
1. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	15	187690	0
2. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	2	5960	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	1	54000	0
1. UPGRADE TO SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	6	23817	0
2. UPGRADE TO TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	14	3888	0
D. FACILITIES NEEDING REPLACEMENT	1	43964	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	31	8538	0
2. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES			
TOTAL	14	124402	0
A. SECONDARY TREATMENT REQUIRED	12	122678	0
NEW FACILITIES UNDER CONSTRUCTION	5	3538	0
B. TERTIARY TREATMENT REQUIRED	2	1324	0
NEW FACILITIES UNDER CONSTRUCTION	1	600	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	14	124602	5
LESS THAN RELIABLE SECONDARY TREATMENT	9	21309	0
RELIABLE SECONDARY TREATMENT	241	1671712	7
TERtiARY TREATMENT	84	414044	4
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0	0	66
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0	0	0

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	131	702110	67
NO ACTION	68	111702	3
ACTION INITIATED	10	25418	1
STEP ONE	77	371906	0
STEP TWO	12	315230	1
STEP THREE	23	531001	1
CONSTRUCTION COMPLETE	0	0	0

1983 ORGANO WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR KENTUCKY

MUNICIPAL FACILITIES	POPULATION
<hr/>	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED COMPLIANCE WITH APPLIED NPDES LIMITS:	127
FACILITIES EVALUATED	944928
IN COMPLIANCE	127
CONTINUING NON COMPLIANCE	33
OCCASIONAL NON COMPLIANCE OR 1/1 RELATED PROBLEMS	32
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	62
AGE OF FACILITY:	0
FACILITIES EVALUATED	127
10 YEARS OR LESS	17
10 - 20 YEARS	70
OVER 20 YEARS	38
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	0
FACILITIES EVALUATED	39
CURRENT OVERLOAD AND/OR 1/1 RELATED PROBLEMS	28
NEAR OVERLOAD	18
REASON FOR FACILITY EXPANSION UNKNOWN	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	0
FACILITIES EVALUATED	111
FAILURES DUE TO FACILITY AGE	28
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	75
ABANDON TO REGIONAL PLANT	6
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	1
EXTENT OF NEEDED CONSTRUCTION:	1200
FACILITIES EVALUATED	106
MINOR CONSTRUCTION OR O & M IMPROVEMENT	3
MAJOR CONSTRUCTION	133
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	0
FACILITIES EVALUATED	127
NEGIGIBLE	17
MINOR	72
MAJOR	37
EFFECT ON RECEIVING STREAM UNKNOWN	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR NEW YORK  
SUMMARY OF FACILITY NEEDS

## I EXISTING FACILITIES

PAGE ONE

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	13	108593	19
NO IDENTIFIED NEEDS	7	51540	19
IMPROVEMENTS NEEDED	6	49050	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	0	0	0
1. UPGRADE TO SECONDARY TREATMENT	0	0	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	0	0	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	0	0	0
1. FACILITIES WITH SECONDARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	5	45990	0
1. UPGRADE TO SECONDARY + EXPANSION	3	4970	0
PROJECTS UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY + EXPANSION	2	41000	0
PROJECTS UNDER CONSTRUCTION	1	39000	0
D. FACILITIES NEEDING REPLACEMENT	1	3050	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	1	3000	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II. NEW FACILITIES	0	0	0
TOTAL	0	0	0
A. SECONDARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0
B. TERTIARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	0
LESS THAN RELIABLE SECONDARY TREATMENT	5
RELIABLE SECONDARY TREATMENT	7
TERtiARY TREATMENT	1
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	6
NO ACTION	0
ACTION INITIATED	2
STEP ONE	2
STEP TWO	2
STEP THREE	1
CONSTRUCTION COMPLETE	0

1983 ORGANIC WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR NEW YORK

MUNICIPAL FACILITIES	POPULATION
EXISTING FACILITIES WITH IMPROVEMENT NEEDED COMPLIANCE WITH APPLIED NPDES LIMITS:	6
FACILITIES EVALUATED IN COMPLIANCE	5
CONTINUING NON COMPLIANCE OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0 1 0
AGE OF FACILITY: FACILITIES EVALUATED	6
10 YEARS OR LESS	0
10 - 20 YEARS	4
OVER 20 YEARS	2
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION: FACILITIES EVALUATED	5
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	5
NEAR OVERLOAD	0
REASON FOR FACILITY EXPANSION UNKNOWN REASON FOR FACILITY UPGRADE OR REPLACEMENT: FACILITIES EVALUATED	0 0 6
FAILURES DUE TO FACILITY AGE	0
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	5
ABANDON TO REGIONAL PLANT	1
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN EXTENT OF NEEDED CONSTRUCTION: FACILITIES EVALUATED	0 0 5
MINOR CONSTRUCTION OR O & M IMPROVEMENT	2
MAJOR CONSTRUCTION	5
EXTENT OF NEEDED CONSTRUCTION UNKNOWN CURRENT EFFECT OF FACILITY ON RECEIVING STREAM: FACILITIES EVALUATED	0 0 6
NEGIGIBLE	2
MINOR	3
MAJOR	1
SECRET AND DEFENDING CRYPTOGRAPHIC INFORMATION	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

PAGE ONE

TALLY FOR OHIO  
SUMMARY OF FACILITY NEEDS

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	390	3925630	162
NO IDENTIFIED NEEDS	150	1163754	144
IMPROVEMENTS NEEDED	240	276876	18
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	57	704298	14
1. UPGRADE TO SECONDARY TREATMENT	7	142618	0
SECONDARY UPGRADES UNDER CONSTRUCTION	1	94820	0
2. UPGRADE TO TERTIARY TREATMENT	58	561688	0
TERTIARY UPGRADES UNDER CONSTRUCTION	2	312878	0
B. FACILITIES NEEDING INCREASED CAPACITY	19	128660	0
C. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	17	119950	0
D. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	2	9718	0
E. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	0	0	0
F. FACILITIES WITH SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	37	315197	0
G. FACILITIES WITH TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	5	41268	0
H. FACILITIES NEEDING REPLACEMENT	100	1468942	1
I. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	12	952545	1
J. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	27	152779	2
K. NEW FACILITIES	0	0	0
TOTAL	67	51476	0
A. SECONDARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	22	19574	0
B. TERTIARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	1	1678	0
	45	31902	0
	1	9	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	67	51476
LESS THAN RELIABLE SECONDARY TREATMENT	47	479249
RELIABLE SECONDARY TREATMENT	256	2868092
TERtiARY TREATMENT	87	578289
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0	0
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0	0

SUMMARY OF PHASE OF PROJECT

---

None (No Project)	186	904437
No Action	44	63328
Action Initiated	64	195315
Step One	172	1057217
Step Two	23	211838
Step Three	24	1415285
Construction Complete	0	0

MUNICIPAL FACILITIES	POPULATION
<hr/>	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED	240
COMPLIANCE WITH APPLIED NPDES LIMITS:	
FACILITIES EVALUATED	236
IN COMPLIANCE	147
CONTINUING NON COMPLIANCE	16
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	73
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	
FACILITIES EVALUATED	240
10 YEARS OR LESS	30
10 - 20 YEARS	112
OVER 20 YEARS	94
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	
FACILITIES EVALUATED	167
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	122
NEAR OVERLOAD	40
REASON FOR FACILITY EXPANSION UNKNOWN	2
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	
FACILITIES EVALUATED	224
FAILURES DUE TO FACILITY AGE	17
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	197
ABANDON TO REGIONAL PLANT	15
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	2
EXTENT OF NEEDED CONSTRUCTION:	
FACILITIES EVALUATED	227
MINOR CONSTRUCTION OR Q & M IMPROVEMENT	7
MAJOR CONSTRUCTION	211
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	3
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	
FACILITIES EVALUATED	239
NEGIGIBLE	57
MINOR	105
MAJOR	73
EFFECT ON RECEIVING STREAM UNKNOWN	1
	3270

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR PENNSYLVANIA  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	231	3292751	166
NO IDENTIFIED NEEDS	162	2911988	150
IMPROVEMENTS NEEDED	49	380783	16
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	12	121864	10
1. UPGRADE TO SECONDARY TREATMENT	9	113684	1
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	3	8262	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	12	154826	0
1. FACILITIES WITH SECONDARY TREATMENT	10	147878	0
EXPANSION PROJECTS UNDER CONSTRUCTION	1	37000	0
2. FACILITIES WITH TERTIARY TREATMENT	2	6958	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	15	84639	2
1. UPGRADE TO SECONDARY + EXPANSION	9	35814	0
PROJECTS UNDER CONSTRUCTION	1	854	0
2. UPGRADE TO TERTIARY + EXPANSION	6	46375	0
PROJECTS UNDER CONSTRUCTION	2	32265	0
D. FACILITIES NEEDING REPLACEMENT	16	20218	4
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	9	19710	1
REPLACEMENTS UNDER CONSTRUCTION	2	8000	1
2. CURRENTLY WITH TERTIARY TREATMENT	1	500	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
E. NEW FACILITIES			
TOTAL	32	55317	0
A. SECONDARY TREATMENT REQUIRED	30	49271	0
NEW FACILITIES UNDER CONSTRUCTION	3	2211	0
B. TERTIARY TREATMENT REQUIRED	2	6046	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

NO TREATMENT	32
LESS THAN RELIABLE SECONDARY TREATMENT	28
RELIABLE SECONDARY TREATMENT	188
TERtiARY TREATMENT	21
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0

SUMMARY OF PHASE OF PROJECT

NONE (NO PROJECT)	173
NO ACTION	34
ACTION INITIATED	18
STEP ONE	26
STEP TWO	6
STEP THREE	9
CONSTRUCTION COMPLETE	0

1983 ORSANCO WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR PENNSYLVANIA

MUNICIPAL FACILITIES	POPULATION
<hr/>	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED	49
COMPLIANCE WITH APPLIED NPDES LIMITS:	
FACILITIES EVALUATED	45
IN COMPLIANCE	12
CONTINUING NON COMPLIANCE	14
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	19
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	0
FACILITIES EVALUATED	49
10 YEARS OR LESS	7
10 - 20 YEARS	20
OVER 20 YEARS	20
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	
FACILITIES EVALUATED	27
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	21
NEAR OVERLOAD	4
REASON FOR FACILITY EXPANSION UNKNOWN	2
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	
FACILITIES EVALUATED	40
FAILURES DUE TO FACILITY AGE	4
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	26
ABANDON TO REGIONAL PLANT	7
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	3
EXTENT OF NEEDED CONSTRUCTION:	
FACILITIES EVALUATED	42
MINOR CONSTRUCTION OR O & M IMPROVEMENT	0
MAJOR CONSTRUCTION	40
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	2
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	
FACILITIES EVALUATED	49
NEGIGIBLE	14
MINOR	30
MAJOR	4
EFFECT ON RECEIVING STREAM UNKNOWN	1

TALLY FOR VIRGINIA  
SUMMARY OF FACILITY NEEDS

PAGE ONE

I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	50	168470	11
NO IDENTIFIED NEEDS	18	74856	11
IMPROVEMENTS NEEDED	32	93614	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	5	6395	0
1. UPGRADE TO SECONDARY TREATMENT	5	6985	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	0	0	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	0	0	0
1. FACILITIES WITH SECONDARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	18	49586	0
1. UPGRADE TO SECONDARY + EXPANSION	17	47336	0
PROJECTS UNDER CONSTRUCTION	1	540	0
2. UPGRADE TO TERTIARY + EXPANSION	1	2278	0
PROJECTS UNDER CONSTRUCTION	1	2270	0
D. FACILITIES NEEDING REPLACEMENT	9	37023	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	9	37023	0
REPLACEMENTS UNDER CONSTRUCTION	3	8173	2
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II. NEW FACILITIES			
TOTAL	4	3030	0
A. SECONDARY TREATMENT REQUIRED			
NEW FACILITIES UNDER CONSTRUCTION	1	1686	0
B. TERTIARY TREATMENT REQUIRED			
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	4
LESS THAN RELIABLE SECONDARY TREATMENT	31
RELIABLE SECONDARY TREATMENT	15
TERtiARY TREATMENT	4
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	17
NO ACTION	0
ACTION INITIATED	7
STEP ONE	15
STEP TWO	8
STEP THREE	6
CONSTRUCTION COMPLETE	0

MUNICIPAL FACILITIES	POPULATION
EXISTING FACILITIES WITH IMPROVEMENT NEEDED COMPLIANCE WITH APPLIED NPDES LIMITS:	32
FACILITIES EVALUATED	32
IN COMPLIANCE	24
CONTINUING NON COMPLIANCE	3
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	5
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	93614
FACILITIES EVALUATED	32
10 YEARS OR LESS	0
10 - 20 YEARS	11
OVER 20 YEARS	20
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	49866
FACILITIES EVALUATED	18
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	11
NEAR OVERLOAD	6
REASON FOR FACILITY EXPANSION UNKNOWN	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	22156
FACILITIES EVALUATED	32
FAILURES DUE TO FACILITY AGE	1
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	22
ABANDON TO REGIONAL PLANT	6
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	2
EXTENT OF NEEDED CONSTRUCTION:	25188
FACILITIES EVALUATED	0
MINOR CONSTRUCTION OR 0 & M IMPROVEMENT	2
MAJOR CONSTRUCTION	22
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	1173
FACILITIES EVALUATED	57764
NEGIGIBLE	18
MINOR	7
MAJOR	6
EFFECT ON RECEIVING STREAM UNKNOWN	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR WEST VIRGINIA  
SUMMARY OF FACILITY NEEDS

## I EXISTING FACILITIES

PAGE ONE

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	160	1096278	82
NO IDENTIFIED NEEDS	82	577691	77
IMPROVEMENTS NEEDED	78	513537	5
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	11	48379	4
1. UPGRADE TO SECONDARY TREATMENT	8	26419	1
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	5	21960	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	2	1500	0
C. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	2	1500	0
D. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
E. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	55	446728	1
F. FACILITIES WITH SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	31	385473	1
G. FACILITIES WITH TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	24	176818	0
H. FACILITIES NEEDING REPLACEMENT	1	141250	0
I. FACILITIES NEEDING REPLACEMENT REPLACEMENTS UNDER CONSTRUCTION	10	1900	0
J. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	10	21958	0
K. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	0	0	0
L. NEW FACILITIES	0	0	0
TOTAL	93	298676	0
A. SECONDARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	56	259334	0
B. TERTIARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	7	92358	0
	18	39342	0
	2	7500	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	98	298576
LESS THAN RELIABLE SECONDARY TREATMENT	38	38408
RELIABLE SECONDARY TREATMENT	116	761310
TERtiARY TREATMENT	6	38268
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	8	0
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	0

SUMMARY OF PHASE OF PROJECT

---

None (No Project)	67	406804
No Action	31	97173
Action Initiated	16	56638
Step One	107	381720
Step Two	16	40790
Step Three	15	278560
Construction Complete	0	0

1983 ORGANIC WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR WEST VIRGINIA

MUNICIPAL FACILITIES	POPULATION
<hr/>	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED:	78
COMPLIANCE WITH APPLIED NPDES LIMITS:	57
FACILITIES EVALUATED	57
IN COMPLIANCE	23
CONTINUING NON COMPLIANCE	32
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	2
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	0
FACILITIES EVALUATED	78
10 YEARS OR LESS	3
10 - 20 YEARS	13
OVER 20 YEARS	58
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	0
FACILITIES EVALUATED	58
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	45
NEAR OVERLOAD	6
REASON FOR FACILITY EXPANSION UNKNOWN	4
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	0
FACILITIES EVALUATED	78
FAILURES DUE TO FACILITY AGE	3
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	68
ABANDON TO REGIONAL PLANT	3
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	1
EXTENT OF NEEDED CONSTRUCTION:	0
FACILITIES EVALUATED	73
MINOR CONSTRUCTION OR O & M IMPROVEMENT	4
MAJOR CONSTRUCTION	65
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	0
FACILITIES EVALUATED	78
NEGIGIBLE	34
MINOR	18
MAJOR	20
EFFECT ON RECEIVING STREAM UNKNOWN	3

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR ALLEGHENY  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	104	934457	93
NO IDENTIFIED NEEDS	76	563184	86
IMPROVEMENTS NEEDED	23	27133	7
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	8	114114	6
1. UPGRADE TO SECONDARY TREATMENT	6	108054	1
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	2	6060	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	3	57438	0
1. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	3	57438	0
2. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	0	37800	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	15	94759	0
1. UPGRADE TO SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	10	20934	0
2. UPGRADE TO TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	5	854	0
D. FACILITIES NEEDING REPLACEMENT	2	73775	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	2	61665	0
2. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	0	5950	1
II NEW FACILITIES	0	0	0
TOTAL	17	30376	0
A. SECONDARY TREATMENT REQUIRED	17	30376	0
NEW FACILITIES UNDER CONSTRUCTION	2	1811	0
B. TERTIARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	17	2
LESS THAN RELIABLE SECONDARY TREATMENT	15	3
RELIABLE SECONDARY TREATMENT	85	17
TERtiARY TREATMENT	4	0
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0	67
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0	6

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	72	82
NO ACTION	19	1
ACTION INITIATED	6	3
STEP ONE	10	23637
STEP TWO	5	41593
STEP THREE	7	13278
CONSTRUCTION COMPLETE	0	182332
		0

1983 ORGANIC WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR ALLEGHENY

MUNICIPAL  
FACILITIES

III. SPECIAL DATA SUMMARY - 1983

	MUNICIPAL FACILITIES	POPULATION
EXISTING FACILITIES WITH IMPROVEMENT NEEDED COMPLIANCE WITH APPLIED NPDES LIMITS:	28	271363
FACILITIES EVALUATED	27	269363
IN COMPLIANCE	18	166884
CONTINUING NON COMPLIANCE	10	140286
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	7	22193
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0	0
AGE OF FACILITY:		
FACILITIES EVALUATED	28	271363
10 YEARS OR LESS	2	6250
10 - 20 YEARS	14	121600
OVER 20 YEARS	11	54337
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0	0
REASON FOR FACILITY EXPANSION:		
FACILITIES EVALUATED	18	120189
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	17	114389
NEAR OVERLOAD	1	5800
REASON FOR FACILITY EXPANSION UNKNOWN	0	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:		
FACILITIES EVALUATED	27	266863
FAILURES DUE TO FACILITY AGE	0	0
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	24	224803
ABANDON TO REGIONAL PLANT	2	5060
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	1	37000
EXTENT OF NEEDED CONSTRUCTION:		
FACILITIES EVALUATED	27	268303
MINOR CONSTRUCTION OR Q & M IMPROVEMENT	0	0
MAJOR CONSTRUCTION	27	268303
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:		
FACILITIES EVALUATED	28	271363
NEGIGIBLE	3	23892
MINOR	17	118295
MAJOR	3	129176
EFFECT ON RECEIVING STREAM UNKNOWN	0	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR BEAVER  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	72	8089911	42
NO IDENTIFIED NEEDS	42	403631	36
IMPROVEMENTS NEEDED	38	403380	6
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	2	5560	4
1. UPGRADE TO SECONDARY TREATMENT	0	0	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	2	5560	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	0	0	0
1. FACILITIES WITH SECONDARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	28	337240	1
1. UPGRADE TO SECONDARY + EXPANSION	8	78280	0
PROJECTS UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY + EXPANSION	12	283860	0
PROJECTS UNDER CONSTRUCTION	3	176100	0
D. FACILITIES NEEDING REPLACEMENT	0	34580	1
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	7	34080	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
2. CURRENTLY WITH TERTIARY TREATMENT	1	500	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES			
TOTAL	1	5200	0
A. SECONDARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0
B. TERTIARY TREATMENT REQUIRED	1	5200	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	1
LESS THAN RELIABLE SECONDARY TREATMENT	12
RELIABLE SECONDARY TREATMENT	42
TERTIARY TREATMENT	17
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	39
NO ACTION	1
ACTION INITIATED	8
STEP ONE	14
STEP TWO	6
STEP THREE	3
CONSTRUCTION COMPLETE	0

5200	1
294290	0
413444	3
100681	1
0	33
0	5

385758	35
3336	1
34378	3
69581	0
130059	0
176100	3
0	0

1983 ORSANCO WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR BEAVER

	MUNICIPAL FACILITIES	POPULATION
<b>EXISTING FACILITIES WITH IMPROVEMENT NEEDED:</b>		
COMPLIANCE WITH APPLIED NPDES LIMITS:	38	407380
FACILITIES EVALUATED		
IN COMPLIANCE	30	407380
CONTINUING NON COMPLIANCE	22	379610
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	2	3490
OVER 20 YEARS	6	24280
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0	0
<b>AGE OF FACILITY:</b>		
FACILITIES EVALUATED		
10 YEARS OR LESS	30	407380
10 - 20 YEARS	3	3170
OVER 20 YEARS	8	178920
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	18	224160
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0	0
<b>REASON FOR FACILITY EXPANSION:</b>		
FACILITIES EVALUATED		
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	19	357640
NEAR OVERLOAD	11	185970
REASON FOR FACILITY EXPANSION UNKNOWN	7	190540
REASON FOR FACILITY UPGRADE OR REPLACEMENT:		
FACILITIES EVALUATED		
FAILURES DUE TO FACILITY AGE	30	407380
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	2	3590
ABANDON TO REGIONAL PLANT	21	371670
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	6	309990
EXTENT OF NEEDED CONSTRUCTION:		
FACILITIES EVALUATED		
MINOR CONSTRUCTION OR O & M IMPROVEMENT	23	375160
MAJOR CONSTRUCTION	0	0
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	22	373970
<b>CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:</b>		
FACILITIES EVALUATED		
NEGIGIBLE	30	407380
MINOR	6	6930
MAJOR	20	369690
EFFECT ON RECEIVING STREAM UNKNOWN	3	27630
	0	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR BIG SANDY  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	21	50387	6
NO IDENTIFIED NEEDS	13	26594	3
IMPROVEMENTS NEEDED	3	23713	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	0	0	0
1. UPGRADE TO SECONDARY TREATMENT	0	0	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	0	0	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	2	5288	0
1. FACILITIES WITH SECONDARY TREATMENT	2	5288	0
EXPANSION PROJECTS UNDER CONSTRUCTION	1	1788	0
2. FACILITIES WITH TERTIARY TREATMENT	0	0	3
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	5	17720	0
1. UPGRADE TO SECONDARY + EXPANSION	5	17720	0
PROJECTS UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY + EXPANSION	0	0	0
PROJECTS UNDER CONSTRUCTION	0	0	0
D. FACILITIES NEEDING REPLACEMENT	1	793	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	1	793	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES			
TOTAL	15	23563	0
A. SECONDARY TREATMENT REQUIRED	11	14497	0
NEW FACILITIES UNDER CONSTRUCTION	1	180	0
B. TERTIARY TREATMENT REQUIRED	4	14166	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	15
LESS THAN RELIABLE SECONDARY TREATMENT	5
RELIABLE SECONDARY TREATMENT	16
TERtiARY TREATMENT	0
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	8
NO ACTION	3
ACTION INITIATED	2
STEP ONE	17
STEP TWO	4
STEP THREE	2
CONSTRUCTION COMPLETE	0

1983 ORGANIC WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR BIG SANDY

	MUNICIPAL FACILITIES	POPULATION
EXISTING FACILITIES WITH IMPROVEMENT NEEDED COMPLIANCE WITH APPLIED NPDES LIMITS:	8	23713
FACILITIES EVALUATED IN COMPLIANCE	7	21913
CONTINUING NON COMPLIANCE	1	7000
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	3	7013
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	3	7900
AGE OF FACILITY: FACILITIES EVALUATED	0	0
10 YEARS OR LESS	6	0
10 - 20 YEARS	4	9700
OVER 20 YEARS	4	14013
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0	0
REASON FOR FACILITY EXPANSION: FACILITIES EVALUATED	8	23713
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	6	19233
NEAR OVERLOAD	2	4480
REASON FOR FACILITY EXPANSION UNKNOWN	0	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT: FACILITIES EVALUATED	0	18513
FAILURES DUE TO FACILITY AGE	1	793
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	5	17720
ABANDON TO REGIONAL PLANT	0	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0	0
EXTENT OF NEEDED CONSTRUCTION: FACILITIES EVALUATED	0	23713
MINOR CONSTRUCTION OR O & M IMPROVEMENT	0	0
MAJOR CONSTRUCTION	0	23713
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM: FACILITIES EVALUATED	0	23713
NEGIGIBLE	5	16700
MINOR	0	0
MAJOR	3	7013
EFFECT ON RECEIVING STREAM UNKNOWN	0	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR CUMBERLAND  
SUMMARY OF FACILITY NEEDS

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	34	125948	6
NO IDENTIFIED NEEDS	22	92295	6
IMPROVEMENTS NEEDED	12	33653	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	5	6597	0
1. UPGRADE TO SECONDARY TREATMENT	1	3810	2
SECONDARY UPGRADES UNDER CONSTRUCTION	9	0	0
2. UPGRADE TO TERTIARY TREATMENT	4	2787	2
TERTIARY UPGRADGES UNDER CONSTRUCTION	1	738	0
B. FACILITIES NEEDING INCREASED CAPACITY	1	890	0
1. FACILITIES WITH SECONDARY TREATMENT	1	890	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	3	14354	0
1. UPGRADE TO SECONDARY + EXPANSION	1	11800	3
PROJECTS UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY + EXPANSION	2	2554	0
PROJECTS UNDER CONSTRUCTION	0	0	0
D. FACILITIES NEEDING REPLACEMENT	3	11910	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	3	11910	0
REPLACEMENTS UNDER CONSTRUCTION	2	6360	0
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II. NEW FACILITIES			
TOTAL	1	1150	0
A. SECONDARY TREATMENT REQUIRED	1	1180	0
NEW FACILITIES UNDER CONSTRUCTION	1	1180	0
B. TERTIARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	1	0
LESS THAN RELIABLE SECONDARY TREATMENT	2	0
RELIABLE SECONDARY TREATMENT	26	0
TERTARY TREATMENT	6	0
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0	0
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	0

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	6	0
NO ACTION	3	0
ACTION INITIATED	1	0
STEP ONE	15	0
STEP TWO	1	0
STEP THREE	4	0
CONSTRUCTION COMPLETE	0	0

1983 URGENT WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR CUMBERLAND

MUNICIPAL  
FACILITIES

POPULATION

III. SPECIAL DATA SUMMARY - 1983

EXISTING FACILITIES WITH IMPROVEMENT NEEDED:	12	33663
FACILITIES EVALUATED	12	33663
IN COMPLIANCE	3	7683
CONTINUING NON COMPLIANCE	7	21570
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	2	4410
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0	0
AGE OF FACILITY:		
FACILITIES EVALUATED	12	33663
10 YEARS OR LESS	0	0
10 - 20 YEARS	6	11133
OVER 20 YEARS	6	22536
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0	0
REASON FOR FACILITY EXPANSION:		
FACILITIES EVALUATED	4	15154
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	4	15154
NEAR OVERLOAD	0	0
REASON FOR FACILITY EXPANSION UNKNOWN	0	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:		
FACILITIES EVALUATED	11	32953
FAILURES DUE TO FACILITY AGE	3	11918
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	8	20253
ABANDON TO REGIONAL PLANT	0	4
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0	0
EXTENT OF NEEDED CONSTRUCTION:		
FACILITIES EVALUATED	9	27253
MINOR CONSTRUCTION OR 0 & 1/4 IMPROVEMENT	1	11800
MAJOR CONSTRUCTION	8	15453
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:		
FACILITIES EVALUATED	12	33663
NEGIGIBLE	1	542
MINOR	6	7291
MAJOR	5	25530
EFFECT ON RECEIVING STREAM UNKNOWN	0	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR GREEN  
SUMMARY OF FACILITY NEEDS

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	36	244795	6
NO IDENTIFIED NEEDS	25	203305	6
IMPROVEMENTS NEEDED	11	41498	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	0	0	0
1. UPGRADE TO SECONDARY TREATMENT	0	0	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	0	0	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	2	12180	0
1. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	2	12180	0
2. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	3	6080	0
1. UPGRADE TO SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	1	1970	0
2. UPGRADE TO TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	2	4090	0
D. FACILITIES NEEDING REPLACEMENT	6	23230	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	6	23230	0
2. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES	1	600	0
TOTAL	1	0	0
A. SECONDARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	0	0	0
B. TERTIARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	1	600	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	1	0
LESS THAN RELIABLE SECONDARY TREATMENT	0	0
RELIABLE SECONDARY TREATMENT	25	0
TERTIAL TREATMENT	11	1
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0	5
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	0

SUMMARY OF PHASE OF PROJECT

---

None (No Project)	14	4
No Action	2	0
Action Initiated	3	0
Step One	10	0
Step Two	3	0
Step Three	1	0
Construction Complete	0	0

1983 ORGANIC WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR GREEN

MUNICIPAL FACILITIES	POPULATION
<hr/>	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED	11
COMPLIANCE WITH APPLIED NPDES LIMITS:	41470
FACILITIES EVALUATED	11
IN COMPLIANCE	1
CONTINUING NON COMPLIANCE	5
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	5
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	0
FACILITIES EVALUATED	11
10 YEARS OR LESS	9
10 - 20 YEARS	3
OVER 20 YEARS	8
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	0
FACILITIES EVALUATED	5
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	4
NEAR OVERLOAD	1
REASON FOR FACILITY EXPANSION UNKNOWN	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	0
FACILITIES EVALUATED	9
FAILURES DUE TO FACILITY AGE	5
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	2
ABANDON TO REGIONAL PLANT	2
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0
EXTENT OF NEEDED CONSTRUCTION:	0
FACILITIES EVALUATED	5
MINOR CONSTRUCTION OR O & M IMPROVEMENT	1
MAJOR CONSTRUCTION	4
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	0
FACILITIES EVALUATED	11
NEGIGIBLE	1
MINOR	2
MAJOR	8
EFFECT ON RECEIVING STREAM UNKNOWN	6

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR GUYANDOT  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	15	41000	1
NO IDENTIFIED NEEDS	2	4100	1
IMPROVEMENTS NEEDED	13	36900	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	4	14000	0
1. UPGRADE TO SECONDARY TREATMENT	3	11800	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	1	2200	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	1	200	0
C. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	1	200	0
D. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
E. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	0	22520	0
F. FACILITIES NEEDING REPLACEMENT	0	0	0
G. FACILITIES WITH SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	3	14300	0
H. FACILITIES WITH TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	1	5000	0
I. FACILITIES NEEDING REPLACEMENT	5	8320	0
J. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	0	0	0
K. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	0	0	0
L. NEW FACILITIES	0	0	0
TOTAL	7	36590	0
A. SECONDARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	0	0	0
B. TERTIARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	7
LESS THAN RELIABLE SECONDARY TREATMENT	3
RELIABLE SECONDARY TREATMENT	12
TERtiARY TREATMENT	0
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0

SUMMARY OF PHASE OF PROJECT

---

None (No Project)	4
No Action	6
Action Initiated	0
Step One	11
Step Two	0
Step Three	1
Construction Complete	0

1983 ORSANDO WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR GUAYANDOT

	MUNICIPAL FACILITIES	POPULATION
<b>III. SPECIAL DATA SUMMARY - 1983</b>		
EXISTING FACILITIES WITH IMPROVEMENT NEEDED	13	36900
COMPLIANCE WITH APPLIED NPDES LIMITS:		
FACILITIES EVALUATED	13	36900
IN COMPLIANCE	1	5000
CONTINUING NON COMPLIANCE	12	31900
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	0	0
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0	0
AGE OF FACILITY:		
FACILITIES EVALUATED	13	36900
10 YEARS OR LESS	1	8000
10 - 20 YEARS	0	0
OVER 20 YEARS	12	28900
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0	0
READY FOR FACILITY EXPANSION:		
FACILITIES EVALUATED	8	22620
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	8	22620
NEAR OVERLOAD	0	0
REASON FOR FACILITY EXPANSION UNKNOWN	0	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:		
FACILITIES EVALUATED	13	36900
FAILURES DUE TO FACILITY AGE	0	0
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	13	36900
ABANDON TO REGIONAL PLANT	0	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0	0
EXTENT OF NEEDED CONSTRUCTION:		
FACILITIES EVALUATED	13	36900
MINOR CONSTRUCTION OR O&M IMPROVEMENT	1	8000
MAJOR CONSTRUCTION	11	26300
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:		
FACILITIES EVALUATED	13	36900
NEGIGIBLE	2	9300
MINOR	4	8620
MAJOR	6	16180

TALLY FOR HOCKING  
SUMMARY OF FACILITY NEEDS

PAGE ONE

I EXISTING FACILITIES

	MUNICIPAL FACILITIES	PUPULATION	INDUSTRIAL FACILITIES
TOTAL	10	87749	4
NO IDENTIFIED NEEDS	3	38628	4
IMPROVEMENTS NEEDED	7	57129	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	1	1420	0
1. UPGRADE TO SECONDARY TREATMENT	0	0	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	1	1420	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	2	11950	0
1. FACILITIES WITH SECONDARY TREATMENT	2	11950	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	2	41828	0
1. UPGRADE TO SECONDARY + EXPANSION	0	0	0
PROJECTS UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY + EXPANSION	2	41828	0
PROJECTS UNDER CONSTRUCTION	0	0	0
D. FACILITIES NEEDING REPLACEMENT	2	1939	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	2	1939	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
III NEW FACILITIES			
TOTAL	7	7628	0
A. SECONDARY TREATMENT REQUIRED	2	2258	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0
B. TERTIARY TREATMENT REQUIRED	5	5370	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

NO TREATMENT	7	7628
LESS THAN RELIABLE SECONDARY TREATMENT	2	1939
RELIABLE SECONDARY TREATMENT	8	85310
TERtiARY TREATMENT	0	0
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0	0
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	0

SUMMARY OF PHASE OF PROJECT

NONE (NO PROJECT)	3	30620
NO ACTION	0	0
ACTION INITIATED	8	12818
STEP ONE	5	51470
STEP TWO	1	469
STEP THREE	0	0
CONSTRUCTION COMPLETE	0	0

MUNICIPAL  
FACILITIES

POPULATION  
-----

III. SPECIAL DATA SUMMARY - 1983

EXISTING FACILITIES WITH IMPROVEMENT NEEDED:	
COMPLIANCE WITH APPLIED NPDES LIMITS:	7
FACILITIES EVALUATED	7
IN COMPLIANCE	3
CONTINUING NON COMPLIANCE	1
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	3
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	
FACILITIES EVALUATED	7
10 YEARS OR LESS	1
10 - 20 YEARS	2
OVER 20 YEARS	4
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	
FACILITIES EVALUATED	4
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	3
NEAR OVERLOAD	1
REASON FOR FACILITY EXPANSION UNKNOWN	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	
FACILITIES EVALUATED	7
FAILURES DUE TO FACILITY AGE	5
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	2
ABANDON TO REGIONAL PLANT	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0
EXTENT OF NEEDED CONSTRUCTION:	
FACILITIES EVALUATED	5
MINOR CONSTRUCTION OR 0 & M IMPROVEMENT	1
MAJOR CONSTRUCTION	4
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	
FACILITIES EVALUATED	7
NEGIGIBLE	0
MINOR	4
MAJOR	3
EFFECT ON RECEIVING STREAM UNKNOWN	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR KANASHA  
SUMMARY OF FACILITY NEEDS

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	PUPULATION	INDUSTRIAL FACILITIES
TOTAL	88	544501	34
NO IDENTIFIED NEEDS	25	306746	33
IMPROVEMENTS NEEDED	45	237755	1
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	5	26975	1
			0
1. UPGRADE TO SECONDARY TREATMENT	4	8995	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	1	17980	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	1	1300	0
			0
1. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	1	1300	0
0	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
0	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	29	167627	0
			0
1. UPGRADE TO SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	15	56697	0
1	548	0	0
2. UPGRADE TO TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	14	116338	0
1	1966	0	0
D. FACILITIES NEEDING REPLACEMENT	10	42453	0
			0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	13	42453	0
3	5173	0	0
2. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	0	0	0
0	0	0	0
II NEW FACILITIES			
			0
TOTAL	43	766259	0
A. SECONDARY TREATMENT REQUIRED	34	74997	0
NEW FACILITIES UNDER CONSTRUCTION	4	18390	2
B. TERTIARY TREATMENT REQUIRED	9	21862	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

LAW ENFORCEMENT

SUMMARY OF TYPE OF TREATMENT

NO TREATMENT	43	96359
LESS THAN RELIABLE SECONDARY TREATMENT	26	49345
RELIABLE SECONDARY TREATMENT	50	428626
TERtiARY TREATMENT	4	46536
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0	0
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0	0

SUMMARY OF PHASE OF PROJECT

NONE (NO PROJECT)	28	256166
NO ACTION	11	49447
ACTION INITIATED	13	46630
STEP ONE	46	183384
STEP TWO	12	35150
STEP THREE	11	36593
CONSTRUCTION COMPLETE	0	0

1983 ORSACO WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR KENAIKA

	MUNICIPAL FACILITIES	POPULATION
EXISTING FACILITIES WITH IMPROVEMENT NEEDED COMPLIANCE WITH APPLIED NPDES LIMITS; FACILITIES EVALUATED	45	237755
IN COMPLIANCE	37	157275
CONTINUING NON COMPLIANCE	19	69145
OCONEGAL NON COMPLIANCE OR I/I RELATED PROBLEMS	16	62598
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	2	25540
AGE OF FACILITY:	0	0
FACILITIES EVALUATED	45	237755
10 YEARS OR LESS	1	17988
10 - 20 YEARS	8	74965
OVER 20 YEARS	34	142878
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0	0
REASON FOR FACILITY EXPANSION:		
FACILITIES EVALUATED	31	169757
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	23	127715
NEAR OVERLOAD	6	40110
REASON FOR FACILITY EXPANSION UNKNOWN	0	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:		
FACILITIES EVALUATED	45	237755
FAILURES DUE TO FACILITY AGE	2	12000
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	34	194800
ABANDON TO REGIONAL PLANT	5	27850
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	2	1173
EXTENT OF NEEDED CONSTRUCTION:		
FACILITIES EVALUATED	39	202905
MINOR CONSTRUCTION OR O & M IMPROVEMENT	3	26173
MAJOR CONSTRUCTION	34	174800
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:		
FACILITIES EVALUATED	45	237755
NEGIGLIGIBLE	19	47780
MINOR	12	103173
MAJOR	12	84870

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR KENTUCKY  
SUMMARY OF FACILITY NEEDS

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	45	401196	9
NO IDENTIFIED NEEDS	33	159515	9
IMPROVEMENTS NEEDED	12	241675	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	1	755	0
1. UPGRADE TO SECONDARY TREATMENT	1	755	0
SECONDARY UPGRADES UNDER CONSTRUCTION	1	755	0
2. UPGRADE TO TERTIARY TREATMENT	0	0	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	4	206436	0
1. FACILITIES WITH SECONDARY TREATMENT	3	152450	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT	1	54000	0
EXPANSION PROJECTS UNDER CONSTRUCTION	1	54000	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	3	17510	0
1. UPGRADE TO SECONDARY + EXPANSION	1	38830	0
PROJECTS UNDER CONSTRUCTION	1	38830	0
2. UPGRADE TO TERTIARY + EXPANSION	2	13330	0
PROJECTS UNDER CONSTRUCTION	1	8830	0
D. FACILITIES NEEDING REPLACEMENT	4	16930	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	4	16980	0
REPLACEMENTS UNDER CONSTRUCTION	2	3750	0
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES			
TOTAL	5	6128	0
A. SECONDARY TREATMENT REQUIRED	5	6128	0
NEW FACILITIES UNDER CONSTRUCTION	2	2178	0
B. TERTIARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	5	6128
LESS THAN RELIABLE SECONDARY TREATMENT	2	4635
RELIABLE SECONDARY TREATMENT	32	313085
TERTIAL TREATMENT	11	83478
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	8	0
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	0

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	15	99050
NO ACTION	2	5160
ACTION INITIATED	1	2638
STEP ONE	17	53085
STEP TWO	1	150000
STEP THREE	8	73153
CONSTRUCTION COMPLETE	0	0

1983 ORGANIC WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR KENTUCKY

MUNICIPAL FACILITIES	POPULATION
<hr/>	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED COMPLIANCE WITH APPLIED NPDES LIMITS:	241675
FACILITIES EVALUATED	12
IN COMPLIANCE	6
CONTINUING NON COMPLIANCE	5
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	1
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	0
FACILITIES EVALUATED	12
10 YEARS OR LESS	3
10 - 20 YEARS	3
OVER 20 YEARS	6
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	0
FACILITIES EVALUATED	8
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	5
NEAR OVERLOAD	3
REASON FOR FACILITY EXPANSION UNKNOWN	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	0
FACILITIES EVALUATED	8
FAILURES DUE TO FACILITY AGE	4
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	3
ABANDON TO REGIONAL PLANT	1
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0
EXTENT OF NEEDED CONSTRUCTION:	0
FACILITIES EVALUATED	9
MINOR CONSTRUCTION OR 0 & N IMPROVEMENT	0
MAJOR CONSTRUCTION	9
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	0
FACILITIES EVALUATED	12
NEGIGIBLE	2
MINOR	7
MAJOR	3
EFFECT ON RECEIVING STREAM UNKNOWN	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR LICKING  
SUMMARY OF FACILITY NEEDS

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	14	55353	4
NO IDENTIFIED NEEDS	9	48110	4
IMPROVEMENTS NEEDED	5	7253	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	1	433	0
1. UPGRADE TO SECONDARY TREATMENT	1	0	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	0	0	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	1	1386	0
1. UPGRADE TO SECONDARY + EXPANSION	1	1386	0
PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING REPLACEMENT	3	5448	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	3	5448	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
D. FACILITIES NEEDING REPLACEMENT	11	0	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	3	5448	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
E. NEW FACILITIES	1	1978	0
1. NEW FACILITIES UNDER CONSTRUCTION	1	1978	0
2. TERTIARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0
3. SECONDARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

NO TREATMENT	1	1970	0
LESS THAN RELIABLE SECONDARY TREATMENT	1	1380	0
RELIABLE SECONDARY TREATMENT	10	24933	1
TERtiARY TREATMENT	3	29850	2
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0	0	1
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	0	0

SUMMARY OF PHASE OF PROJECT

NONE (NO PROJECT)	4	21620	4
NO ACTION	3	3193	0
ACTION INITIATED	1	1970	0
STEP ONE	3	11990	0
STEP TWO	1	2480	0
STEP THREE	0	0	0
CONSTRUCTION COMPLETE	0	0	0

1983 ORGANIC WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR LICKING

MUNICIPAL FACILITIES	POPULATION
<hr/>	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED:	
COMPLIANCE WITH APPLIED NPDES LIMITS:	5 7253
FACILITIES EVALUATED	5 7253
IN COMPLIANCE	2 1813
CONTINUOUS NON COMPLIANCE	2 4060
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	1 1380
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0 0
AGE OF FACILITY:	
FACILITIES EVALUATED	5 7253
10 YEARS OR LESS	0 0
10 - 20 YEARS	4 5673
OVER 20 YEARS	1 1580
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0 0
REASON FOR FACILITY EXPANSION:	
FACILITIES EVALUATED	1 1380
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	1 1380
NEAR OVERLOAD	0 0
REASON FOR FACILITY EXPANSION UNKNOWN	0 0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	
FACILITIES EVALUATED	5 7253
FAILURES DUE TO FACILITY AGE	3 5440
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	2 1813
ABANDON TO REGIONAL PLANT	0 0
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0 0
EXTENT OF NEEDED CONSTRUCTION:	
FACILITIES EVALUATED	4 4773
MINOR CONSTRUCTION OR D & M IMPROVEMENT	1 433
MAJOR CONSTRUCTION	3 4340
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0 0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	
FACILITIES EVALUATED	5 7253
NEGIGIBLE	1 1380
MINOR	3 4223
MAJOR	1 1580
EFFECT ON RECEIVING STREAM UNKNOWN	0 0

TALLY FOR LITTLE KANAWHA  
SUMMARY OF FACILITY NEEDS

PAGE ONE

I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
<b>TOTAL</b>	10	27628	1
NO IDENTIFIED NEEDS	0	22628	1
IMPROVEMENTS NEEDED	2	5000	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	1	3000	0
1. UPGRADE TO SECONDARY TREATMENT	1	0	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	0	0	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	0	0	0
1. FACILITIES WITH SECONDARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	1	2000	0
1. UPGRADE TO SECONDARY + EXPANSION	0	0	0
PROJECTS UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY + EXPANSION	1	2000	0
PROJECTS UNDER CONSTRUCTION	0	0	0
D. FACILITIES NEEDING REPLACEMENT	0	0	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES			
TOTAL	5	9718	0
A. SECONDARY TREATMENT REQUIRED	4	8710	0
NEW FACILITIES UNDER CONSTRUCTION	3	0	0
B. TERTIARY TREATMENT REQUIRED	1	1000	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	5
LESS THAN RELIABLE SECONDARY TREATMENT	0
RELIABLE SECONDARY TREATMENT	8
TERTIARY TREATMENT	2
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	6
NO ACTION	0
ACTION INITIATED	2
STEP ONE	3
STEP TWO	2
STEP THREE	0
CONSTRUCTION COMPLETE	0

9710	0
0	0
14848	0
12800	0
0	1
0	0

1	1
11428	0
0	0
7000	0
3520	0
6190	0
0	0

MUNICIPAL  
FACILITIES

DRAFT ATTACHMENT

III. SPECIAL DATE SUMMARY - 1983

EXISTING FACILITIES WITH IMPROVEMENT NEEDED	2
COMPLIANCE WITH APPLIED NPDES LIMITS:	
FACILITIES EVALUATED	2
IN COMPLIANCE	1
CONTINUING NON COMPLIANCE	1
OCCASIONAL NON COMPLIANCE OR 1/1 RELATED PROBLEMS	0
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	
FACILITIES EVALUATED	2
10 YEARS OR LESS	0
OVER 20 YEARS	1
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	
FACILITIES EVALUATED	1
CURRENT OVERLOAD AND/OR 1/1 RELATED PROBLEMS	1
NEAR OVERLOAD	0
REASON FOR FACILITY EXPANSION UNKNOWN	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	
FACILITIES EVALUATED	2
FAILURES DUE TO FACILITY AGE	0
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	2
ABANDON TO REGIONAL PLANT	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0
EXTENT OF NEEDED CONSTRUCTION:	
FACILITIES EVALUATED	2
MINOR CONSTRUCTION OR O & M IMPROVEMENT	1
MAJOR CONSTRUCTION	1
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	
FACILITIES EVALUATED	2
NEGIGIBLE	0
MINOR	2
MAJOR	0
EFFECT ON RECEIVING STREAM UNKNOWN	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR LITTLE MIAMI  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	24	205029	2
NO IDENTIFIED NEEDS	4	29746	1
IMPROVEMENTS NEEDED	20	175283	1
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	5	49553	0
1. UPGRADE TO SECONDARY TREATMENT	0	0	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	5	49653	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	1	8410	0
1. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	1	8410	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	11	101410	0
1. UPGRADE TO SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	11	101410	0
D. FACILITIES NEEDING REPLACEMENT	3	15810	1
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	3	15810	0
2. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	1	5670	0
II NEW FACILITIES	0	0	0
TOTAL	3	1787	0
A. SECONDARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0
B. TERTIARY TREATMENT REQUIRED	3	1707	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

NO TREATMENT	3	1707
LESS THAN RELIABLE SECONDARY TREATMENT	1	2220
RELIABLE SECONDARY TREATMENT	26	172119
TERtiARY TREATMENT	3	30590
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0	0
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	0

SUMMARY OF PHASE OF PROJECT

NONE (NO PROJECT)	2	22280
NO ACTION	1	163
ACTION INITIATED	3	8700
STEP ONE	18	167807
STEP TWO	1	0
STEP THREE	1	5678
CONSTRUCTION COMPLETE	0	0

1983 ORSANCO WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR LITTLE MIAMI

MUNICIPAL FACILITIES	POPULATION
<hr/>	
III. SPECIAL DATA SUMMARY - 1983	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED	28
COMPLIANCE WITH APPLIED NPDES LIMITS:	
FACILITIES EVALUATED	20
IN COMPLIANCE	13
CONTINUING NON COMPLIANCE	2
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	5
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	
FACILITIES EVALUATED	20
10 YEARS OR LESS	6
10 - 20 YEARS	12
OVER 20 YEARS	2
AGE OF FACILITY NOT KNOWN OR ESTIMATED	
REASON FOR FACILITY EXPANSION:	
FACILITIES EVALUATED	14
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	10
NEAR OVERLOAD	4
REASON FOR FACILITY EXPANSION UNKNOWN	
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	
FACILITIES EVALUATED	19
FAILURES DUE TO FACILITY AGE	2
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	17
ABANDON TO REGIONAL PLANT	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	
EXTENT OF NEEDED CONSTRUCTION:	
FACILITIES EVALUATED	20
MINOR CONSTRUCTION OR O & M IMPROVEMENT	0
MAJOR CONSTRUCTION	20
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	
FACILITIES EVALUATED	20
NEGIGIBLE	8
MINOR	7
MAJOR	5
EFFECT ON RECEIVING STREAM UNKNOWN	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR MIAMI  
SUMMARY OF FACILITY NEEDS

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	69	940738	22
NO IDENTIFIED NEEDS	28	28966	22
IMPROVEMENTS NEEDED	41	651272	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	13	40242	0
1. UPGRADE TO SECONDARY TREATMENT	1	10700	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	12	29542	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	2	38700	0
1. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	2	38700	0
2. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	23	538448	0
1. UPGRADE TO SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	2	117700	0
2. UPGRADE TO TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	21	412740	0
D. FACILITIES NEEDING REPLACEMENT	4	317308	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	3	41898	0
2. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES	0	0	0
TOTAL	5	1543	0
A. SECONDARY TREATMENT REQUIRED	1	852	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0
B. TERTIARY TREATMENT REQUIRED	4	691	0
NEW FACILITIES UNDER CONSTRUCTION	1	0	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	5	0
LESS THAN RELIABLE SECONDARY TREATMENT	1	0
RELIABLE SECONDARY TREATMENT	54	0
TERtiARY TREATMENT	14	0
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0	0
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	6	0

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	19	22
NO ACTION	2	0
ACTION INITIATED	9	0
STEP ONE	25	0
STEP TWO	8	0
STEP THREE	5	0
CONSTRUCTION COMPLETE	0	0

1983 ORSANCIO WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR MIAMI

	MUNICIPAL FACILITIES	POPULATION
<hr/>		
III. SPECIAL DATA SUMMARY - 1983		
EXISTING FACILITIES WITH IMPROVEMENT NEEDED	41	651272
COMPLIANCE WITH APPLIED NPDES LIMITS:		
FACILITIES EVALUATED	38	604265
IN COMPLIANCE	25	492384
CONTINUING NON COMPLIANCE	1	12300
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	12	99581
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0	0
AGE OF FACILITY:		
FACILITIES EVALUATED	41	651272
10 YEARS OR LESS	3	51940
10 - 20 YEARS	25	147254
OVER 20 YEARS	11	407071
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0	0
REASON FOR FACILITY EXPANSION:		
FACILITIES EVALUATED	26	572410
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	20	460063
NEAR OVERLOAD	4	57320
REASON FOR FACILITY EXPANSION UNKNOWN		
FACILITIES EVALUATED	2	45007
REASON FOR FACILITY UPGRADE OR REPLACEMENT:		
FACILITIES EVALUATED	37	612572
FAILURES DUE TO FACILITY AGE	2	3071
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	32	522604
ABANDON TO REGIONAL PLANT	3	41890
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	2	45007
EXTENT OF NEEDED CONSTRUCTION:		
FACILITIES EVALUATED	40	640472
MINOR CONSTRUCTION OR O & M IMPROVEMENT	0	0
MAJOR CONSTRUCTION	38	595465
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	2	45007
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:		
FACILITIES EVALUATED	41	651272
NEGIGIBLE	21	110872
MINOR	12	188102
MAJOR	6	387291
EFFECT ON RECEIVING STREAM UNKNOWN	2	45007

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR MONONGAHELA  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	105	8332612	57
NO IDENTIFIED NEEDS	77	637643	53
IMPROVEMENTS NEEDED	28	194969	4
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	4	3369	3
1. UPGRADE TO SECONDARY TREATMENT	3	1669	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	1	1700	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	6	77890	0
1. FACILITIES WITH SECONDARY TREATMENT	5	76940	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT	1	950	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	9	91668	0
1. UPGRADE TO SECONDARY + EXPANSION	5	75960	0
PROJECTS UNDER CONSTRUCTION	1	51810	0
2. UPGRADE TO TERTIARY + EXPANSION	4	15700	0
PROJECTS UNDER CONSTRUCTION	0	0	0
D. FACILITIES NEEDING REPLACEMENT	9	22050	1
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	9	22050	1
REPLACEMENTS UNDER CONSTRUCTION	1	6000	1
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES			
TOTAL	33	1163397	0
A. SECONDARY TREATMENT REQUIRED	29	113665	0
NEW FACILITIES UNDER CONSTRUCTION	3	73910	0
B. TERTIARY TREATMENT REQUIRED	4	2794	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

NO TREATMENT	33	116399	1
LESS THAN RELIABLE SECONDARY TREATMENT	13	93010	12
RELIABLE SECONDARY TREATMENT	85	716652	14
TERtiARY TREATMENT	6	22958	0
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0	0	27
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	0	4

SUMMARY OF PHASE OF PROJECT

NONE (NO PROJECT)	78	594143	47
NO ACTION	20	85654	3
ACTION INITIATED	2	13200	0
STEP ONE	36	122994	2
STEP TWO	3	13000	0
STEP THREE	5	131720	2
CONSTRUCTION COMPLETE	0	0	0

1983 ORGANIC WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR MONONGAHELA

MUNICIPAL FACILITIES	POPULATION
<hr/>	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED:	194969
COMPLIANCE WITH APPLIED NPDES LIMITS:	28
FACILITIES EVALUATED	19
IN COMPLIANCE	8
CONTINUING NON COMPLIANCE	3
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	8
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	8
AGE OF FACILITY:	194969
FACILITIES EVALUATED	28
10 YEARS OR LESS	1
10 - 20 YEARS	11
OVER 20 YEARS	15
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	172600
FACILITIES EVALUATED	17
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	10
NEAR OVERLOAD	4
REASON FOR FACILITY EXPANSION UNKNOWN	3
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	23
FACILITIES EVALUATED	23
FAILURES DUE TO FACILITY AGE	4
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	13
ABANDON TO REGIONAL PLANT	3
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	3
EXTENT OF NEEDED CONSTRUCTION:	177669
FACILITIES EVALUATED	23
MINOR CONSTRUCTION OR O & M IMPROVEMENT	1
MAJOR CONSTRUCTION	20
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	2
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	194969
FACILITIES EVALUATED	28
NEGIGIBLE	3
MINOR	13
MAJOR	5
EFFECT ON RECEIVING STREAM UNKNOWN	2

TALLY FOR MUSKINGUM  
SUMMARY OF FACILITY NEEDS

PAGE ONE

I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
<b>TOTAL</b>	119	693309	65
NO IDENTIFIED NEEDS	59	367021	59
IMPROVEMENTS NEEDED	60	326288	6
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	22	180412	4
1. UPGRADE TO SECONDARY TREATMENT	2	14270	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	20	166142	0
TERTIARY UPGRADES UNDER CONSTRUCTION	1	60280	0
B. FACILITIES NEEDING INCREASED CAPACITY	4	23310	0
1. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	4	23310	0
2. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	31	94196	1
1. UPGRADE TO SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	12	17087	0
2. UPGRADE TO TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	3	4580	0
D. FACILITIES NEEDING REPLACEMENT	19	77019	1
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	1	10000	1
2. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	3	28460	1
E. NEW FACILITIES	0	0	0
<b>TOTAL</b>	17	12336	0
A. SECONDARY TREATMENT REQUIRED	5	5395	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0
B. TERTIARY TREATMENT REQUIRED	12	6941	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	17	12336
LESS THAN RELIABLE SECONDARY TREATMENT	12	48966
RELIABLE SECONDARY TREATMENT	78	413509
TERTIARY TREATMENT	37	236894
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0	0
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	0

SUMMARY OF PHASE OF PROJECT

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NONE (NO PROJECT)	42	277251
NO ACTION	11	11385
ACTION INITIATED	19	54158
STEP ONE	49	276901
STEP TWO	5	6528
STEP THREE	5	74960
CONSTRUCTION COMPLETE	0	0

MUNICIPAL FACILITIES	POPULATION
<hr/>	
III. SPECIAL DATA SUMMARY - 1983	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED	68
COMPLIANCE WITH APPLIED NPDES LIMITS:	326288
FACILITIES EVALUATED	68
IN COMPLIANCE	34
CONTINUING NON COMPLIANCE	7
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	19
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	0
FACILITIES EVALUATED	68
10 YEARS OR LESS	9
10 - 20 YEARS	23
OVER 20 YEARS	27
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	0
FACILITIES EVALUATED	35
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	29
NEAR OVERLOAD	5
REASON FOR FACILITY EXPANSION UNKNOWN	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	0
FACILITIES EVALUATED	55
FAILURES DUE TO FACILITY AGE	3
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	51
ABANDON TO REGIONAL PLANT	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0
EXTENT OF NEEDED CONSTRUCTION:	0
FACILITIES EVALUATED	68
MINOR CONSTRUCTION OR O & M IMPROVEMENT	3
MAJOR CONSTRUCTION	55
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	0
FACILITIES EVALUATED	68
NEGIGIBLE	1
MINOR	37
MAJOR	21
EFFECT ON RECEIVING STREAM UNKNOWN	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR OHIO RIVER DIRECT DISCHARGER  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	128	3279328	129
NO IDENTIFIED NEEDS	72	2212408	118
IMPROVEMENTS NEEDED	56	1065720	11
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	11	688314	7
1. UPGRADE TO SECONDARY TREATMENT	11	688914	1
SECONDARY UPGRADES UNDER CONSTRUCTION	4	648503	0
2. UPGRADE TO TERTIARY TREATMENT	0	0	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	8	71930	0
1. FACILITIES WITH SECONDARY TREATMENT	8	71930	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	30	300156	2
1. UPGRADE TO SECONDARY + EXPANSION	30	300156	1
PROJECTS UNDER CONSTRUCTION	5	156680	0
2. UPGRADE TO TERTIARY + EXPANSION	0	0	0
PROJECTS UNDER CONSTRUCTION	0	0	0
D. FACILITIES NEEDING REPLACEMENT	7	5720	2
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	7	5720	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II. NEW FACILITIES			
TOTAL	11	137847	0
A. SECONDARY TREATMENT REQUIRED	11	137847	0
NEW FACILITIES UNDER CONSTRUCTION	2	1458	0
B. TERTIARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

STATUS OF WASTEWATER FACILITIES 1983 SURVEY  
TALLY FOR OHIO RIVER DIRECT DISCHARGER

PAGE TWO

SUMMARY OF TYPE OF TREATMENT

NO TREATMENT	11	4
LESS THAN RELIABLE SECONDARY TREATMENT	39	14
RELIABLE SECONDARY TREATMENT	89	17
TERtiARY TREATMENT	0	7
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0	84
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0	7

SUMMARY OF PHASE OF PROJECT

NONE (NO PROJECT)	51	1971331
NO ACTION	8	20286
ACTION INITIATED	12	44323
STEP ONE	40	299225
STEP TWO	6	135520
STEP THREE	11	798338
CONSTRUCTION COMPLETE	0	0

1983 ORSANCO WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR OHIO RIVER DIRECT DISCHARGER

MUNICIPAL FACILITIES	POPULATION
<hr/>	
III. SPECIAL DATA SUMMARY - 1983	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED	56
COMPLIANCE WITH APPLIED NPDES LIMITS:	
FACILITIES EVALUATED	51
IN COMPLIANCE	28
CONTINUING NON COMPLIANCE	6
OCCASIONAL NON COMPLIANCE OR L/I RELATED PROBLEMS	17
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	9
AGE OF FACILITY:	
FACILITIES EVALUATED	56
10 YEARS OR LESS	7
10 - 20 YEARS	11
OVER 20 YEARS	35
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	
FACILITIES EVALUATED	40
CURRENT OVERLOAD AND/OR L/I RELATED PROBLEMS	29
NEAR OVERLOAD	6
REASON FOR FACILITY EXPANSION UNKNOWN	3
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	
FACILITIES EVALUATED	58
FAILURES DUE TO FACILITY AGE	6
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	34
ABANDON TO REGIONAL PLANT	8
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0
EXTENT OF NEEDED CONSTRUCTION:	
FACILITIES EVALUATED	51
MINOR CONSTRUCTION OR O & M IMPROVEMENT	4
MAJOR CONSTRUCTION	43
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	
FACILITIES EVALUATED	56
NEGIGIBLE	33
MINOR	13
MAJOR	2
EFFECT ON RECEIVING STREAM UNKNOWN	1

TALLY FOR OHIO RIVER MINOR TRIBUTARIES  
SUMMARY OF FACILITY NEEDS

PAGE ONE

I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
<b>TOTAL</b>	186	594408	26
NO IDENTIFIED NEEDS IMPROVEMENTS NEEDED	95	382798	24
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	91	211628	2
	36	82712	1
1. UPGRADE TO SECONDARY TREATMENT SECONDARY UPGRADES UNDER CONSTRUCTION	4	6492	0
2. UPGRADE TO TERTIARY TREATMENT TERTIARY UPGRADES UNDER CONSTRUCTION	32	76220	0
3. FACILITIES NEEDING INCREASED CAPACITY	1	2218	0
	9	26039	0
1. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	5	12819	0
2. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	4	13220	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	0	0	0
	30	47730	1
1. UPGRADE TO SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	1	1453	0
2. UPGRADE TO TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	29	46310	0
D. FACILITIES NEEDING REPLACEMENT	1	838	0
	16	55139	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	15	47849	0
2. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	2	5966	0
II NEW FACILITIES	1	7298	0
	0	0	0
<b>TOTAL</b>	39	32533	0
A. SECONDARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	14	14496	0
B. TERTIARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	0	0	0
	25	18837	0
	1	586	0

STATUS OF WASTEWATER FACILITIES 1983 SURVEY  
TALLY FOR OHIO RIVER MINOR TRIBUTARIES

PAGE TWO

SUMMARY OF TYPE OF TREATMENT

---

NO TREATMENT	39	4
LESS THAN RELIABLE SECONDARY TREATMENT	10	1
RELIABLE SECONDARY TREATMENT	111	1
TERtiARY TREATMENT	65	1
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0	0
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	2

SUMMARY OF PHASE OF PROJECT

---

NONE (NO PROJECT)	74	22
NO ACTION	43	3
ACTION INITIATED	18	1
STEP ONE	64	0
STEP TWO	14	2
STEP THREE	5	0
CONSTRUCTION COMPLETE	0	0

MUNICIPAL  
FACILITIES

---

POPULATION

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III. SPECIAL DATA SUMMARY - 1983

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EXISTING FACILITIES WITH IMPROVEMENT NEEDED:	91	211620
COMPLIANCE WITH APPLIED NPDES LIMITS:		
FACILITIES EVALUATED	89	207320
IN COMPLIANCE	46	103796
CONTINUING NON COMPLIANCE	13	32478
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	36	71054
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0	0
AGE OF FACILITY:		
FACILITIES EVALUATED	91	211620
10 YEARS OR LESS	12	48540
10 - 20 YEARS	42	72987
OVER 20 YEARS	35	88207
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0	0
REASON FOR FACILITY EXPANSION:		
FACILITIES EVALUATED	44	95535
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	28	64396
NEAR OVERLOAD	15	28197
REASON FOR FACILITY EXPANSION UNKNOWN	1	948
REASON FOR FACILITY UPGRADE OR REPLACEMENT:		
FACILITIES EVALUATED	82	185581
FAILURES DUE TO FACILITY AGE	14	41608
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	57	117255
ABANDON TO REGIONAL PLANT	5	17442
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	6	7266
EXTENT OF NEEDED CONSTRUCTION:		
FACILITIES EVALUATED	84	184408
MINOR CONSTRUCTION OR O & M IMPROVEMENT	10	13235
MAJOR CONSTRUCTION	71	16813
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	3	2450
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:		
FACILITIES EVALUATED	91	211620
NEGIGIBLE	23	42371
MINOR	40	84328
MAJOR	27	84235
EFFECT ON RECEIVING STREAM UNKNOWN	1	986

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR SALT  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
<b>TOTAL</b>	92	261625	5
NO IDENTIFIED NEEDS	47	175817	5
IMPROVEMENTS NEEDED	45	84808	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	35	52181	0
1. UPGRADE TO SECONDARY TREATMENT	0	0	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	35	52181	0
TERTIARY UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	2	5880	0
1. FACILITIES WITH SECONDARY TREATMENT	2	5880	0
EXPANSION PROJECTS UNDER CONSTRUCTION	1	4180	0
2. FACILITIES WITH TERTIARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	4	11797	0
D. FACILITIES NEEDING REPLACEMENT	4	897	0
1. UPGRADE TO SECONDARY + EXPANSION	1	0	0
PROJECTS UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY + EXPANSION	3	10908	0
PROJECTS UNDER CONSTRUCTION	0	0	0
D. FACILITIES NEEDING REPLACEMENT	4	14950	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS	4	14950	0
REPLACEMENTS UNDER CONSTRUCTION	1	3590	0
2. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES	0	0	0
<b>TOTAL</b>	0	0	0
A. SECONDARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0
B. TERTIARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

SUMMARY OF TYPE OF TREATMENT

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NO TREATMENT	0	0
LESS THAN RELIABLE SECONDARY TREATMENT	0	0
RELIABLE SECONDARY TREATMENT	70	172615
TERTIAL TREATMENT	22	89010
NONCONVENTIAL TRT. MEETING REQUIREMENTS	0	0
NONCONVENTIAL TRT. NOT MEETING REQUIREMENTS	0	0

SUMMARY OF PHASE OF PROJECT

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NOIE (NO PROJECT)	42	155317
NO ACTION	39	66491
ACTION INITIATED	0	0
STEP ONE	6	14667
STEP TWO	0	0
STEP THREE	2	7760
CONSTRUCTION COMPLETE	0	0

1983 ORSANCO WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR SALT

MUNICIPAL FACILITIES	POPULATION
<hr/>	
III. SPECIAL DATA SUMMARY - 1983	
EXISTING FACILITIES WITH IMPROVEMENT NEEDED	45
COMPLIANCE WITH APPLIED NPDES LIMITS:	84888
FACILITIES EVALUATED	45
IN COMPLIANCE	12
CONTINUING NON COMPLIANCE	3
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	30
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0
AGE OF FACILITY:	0
FACILITIES EVALUATED	45
10 YEARS OR LESS	6
10 - 20 YEARS	31
OVER 20 YEARS	8
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0
REASON FOR FACILITY EXPANSION:	0
FACILITIES EVALUATED	7
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	6
NEAR OVERLOAD	1
REASON FOR FACILITY EXPANSION UNKNOWN	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:	0
FACILITIES EVALUATED	43
FAILURES DUE TO FACILITY AGE	4
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	39
ABANDON TO REGIONAL PLANT	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0
EXTENT OF NEEDED CONSTRUCTION:	0
FACILITIES EVALUATED	42
MINOR CONSTRUCTION OR Q & M IMPROVEMENT	0
MAJOR CONSTRUCTION	42
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:	0
FACILITIES EVALUATED	45
NEGIGIBLE	6
MINOR	30
MAJOR	9
EFFECT ON RECEIVING STREAM UNKNOWN	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

TALLY FOR SCIOTO  
SUMMARY OF FACILITY NEEDS

PAGE ONE

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	65	10668376	16
NO IDENTIFIED NEEDS	29	134084	15
IMPROVEMENTS NEEDED	36	874312	1
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	6	286696	1
1. UPGRADE TO SECONDARY TREATMENT	1	846	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	7	286656	0
TERTIARY UPGRADES UNDER CONSTRUCTION	1	252593	0
B. FACILITIES NEEDING INCREASED CAPACITY	5	10730	0
1. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	5	10730	0
2. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	18	559096	0
1. UPGRADE TO SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	2	4340	0
2. UPGRADE TO TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	16	555556	0
D. FACILITIES NEEDING REPLACEMENT	5	500474	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	5	16790	0
2. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	1	7850	0
E. NEW FACILITIES	0	0	0
TOTAL	13	10795	0
A. SECONDARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	7	5475	0
B. TERTIARY TREATMENT REQUIRED NEW FACILITIES UNDER CONSTRUCTION	1	1070	3
		5520	0
		0	0

SUMMARY OF TYPE OF TREATMENT

NO TREATMENT	13	10295	0
LESS THAN RELIABLE SECONDARY TREATMENT	2	2080	0
RELIABLE SECONDARY TREATMENT	41	921862	2
TERTIAL TREATMENT	22	84454	1
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0	0	12
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	0	1

SUMMARY OF PHASE OF PROJECT

NONE (NO PROJECT)	26	119274	13
NO ACTION	6	7903	0
ACTION INITIATED	9	14509	1
STEP ONE	25	111758	0
STEP TWO	1	753	0
STEP THREE	9	761984	0
CONSTRUCTION COMPLETE	0	0	0

1983 ORGANIC WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SUMMARY FOR SCIOTO

	MUNICIPAL FACILITIES	POPULATION
III. SPECIAL DATA SUMMARY - 1983		
EXISTING FACILITIES WITH IMPROVEMENT NEEDED:	36	874312
COMPLIANCE WITH APPLIED NPDES LIMITS:		
FACILITIES EVALUATED	35	866462
IN COMPLIANCE	28	825335
CONTINUING NON COMPLIANCE	1	30000
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	6	11127
CONFORMANCE WITH APPLIED NPDES LIMITS UNKNOWN	0	0
AGE OF FACILITY:		
FACILITIES EVALUATED	36	874312
10 YEARS OR LESS	4	697614
11 - 20 YEARS	21	109972
OVER 20 YEARS	10	65200
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0	0
REASON FOR FACILITY EXPANSION:		
FACILITIES EVALUATED	25	592752
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	20	590689
NEAR OVERLOAD	4	11337
REASON FOR FACILITY EXPANSION UNKNOWN	0	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:		
FACILITIES EVALUATED	31	863582
FAILURES DUE TO FACILITY AGE	3	10300
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	23	814476
ABANDON TO REGIONAL PLANT	4	38204
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0	0
EXTENT OF NEEDED CONSTRUCTION:		
FACILITIES EVALUATED	32	858262
MINOR CONSTRUCTION OR 0 & M IMPROVEMENT	1	800
MAJOR CONSTRUCTION	27	824069
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	1	30000
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:		
FACILITIES EVALUATED	36	874312
NEGIGLIGIBLE	9	17933
MINOR	12	43442
MAJOR	14	812414
EFFECT ON RECEIVING STREAM UNKNOWN	0	0

## STATUS OF WASTEWATER FACILITIES 1983 SURVEY

PAGE ONE

TALLY FOR TENNESSEE  
SUMMARY OF FACILITY NEEDS

## I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	33	96326	9
NO IDENTIFIED NEEDS	14	18983	9
IMPROVEMENTS NEEDED	19	77343	0
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	3	2712	0
1. UPGRADE TO SECONDARY TREATMENT	3	2712	0
SECONDARY UPGRADES UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY TREATMENT	0	0	0
TERTIAL UPGRADES UNDER CONSTRUCTION	0	0	0
B. FACILITIES NEEDING INCREASED CAPACITY	1	3110	0
1. FACILITIES WITH SECONDARY TREATMENT	1	3110	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
2. FACILITIES WITH TERTIARY TREATMENT	0	0	0
EXPANSION PROJECTS UNDER CONSTRUCTION	0	0	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	12	45001	0
1. UPGRADE TO SECONDARY + EXPANSION	10	37731	0
PROJECTS UNDER CONSTRUCTION	0	0	0
2. UPGRADE TO TERTIARY + EXPANSION	2	7270	0
PROJECTS UNDER CONSTRUCTION	1	2270	0
D. FACILITIES NEEDING REPLACEMENT	3	23520	0
I. CURRENTLY WITH SECONDARY TREATMENT OR LESS	3	26528	0
REPLACEMENTS UNDER CONSTRUCTION	1	21400	0
II. CURRENTLY WITH TERTIARY TREATMENT	0	0	0
REPLACEMENTS UNDER CONSTRUCTION	0	0	0
III. NEW FACILITIES	2	2830	0
TOTAL	2	2830	0
A. SECONDARY TREATMENT REQUIRED	2	2830	0
NEW FACILITIES UNDER CONSTRUCTION	1	1680	0
B. TERTIARY TREATMENT REQUIRED	0	0	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0

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SUMMARY OF TYPE OF TREATMENT

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NO TREATMENT	2
LESS THAN RELIABLE SECONDARY TREATMENT	15
RELIABLE SECONDARY TREATMENT	14
TERtiARY TREATMENT	4
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0

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SUMMARY OF PHASE OF PROJECT

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NONE (NO PROJECT)	12
NO ACTION	1
ACTION INITIATED	1
STEP ONE	15
STEP TWO	2
STEP THREE	3
CONSTRUCTION COMPLETE	0

2030	0
46443	0
42333	0
7558	0
0	9
0	0

16413	0
722	0
1000	0
53218	0
1261	0
25358	0
0	0

1983 ORGANIC WASTEWATER FACILITIES SURVEY  
SPECIAL DATA SURVEY FOR TENNESSEE

	MUNICIPAL FACILITIES	POPULATION
<hr/>		
III. SPECIAL DATA SURVEY - 1983		
EXISTING FACILITIES WITH IMPROVEMENT NEEDED	19	77343
COMPLIANCE WITH APPLIED NPDES LIMITS:		
FACILITIES EVALUATED	19	77343
IN COMPLIANCE	11	52816
CONTINUING NON COMPLIANCE	3	12010
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	5	12523
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	0	0
AGE OF FACILITY:		
FACILITIES EVALUATED	19	77343
10 YEARS OR LESS	1	722
10 - 20 YEARS	13	66350
OVER 20 YEARS	4	8001
AGE OF FACILITY NOT KNOWN OR ESTIMATED	0	0
REASON FOR FACILITY EXPANSION:		
FACILITIES EVALUATED	12	43111
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	7	20361
NEAR OVERLOAD	4	20488
REASON FOR FACILITY EXPANSION UNKNOWN	0	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT:		
FACILITIES EVALUATED	16	74233
FAILURES DUE TO FACILITY AGE	2	25520
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	13	40443
ABANDON TO REGIONAL PLANT	2	6000
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	0	0
EXTENT OF NEEDED CONSTRUCTION:		
FACILITIES EVALUATED	17	71343
MINOR CONSTRUCTION OR Q & M IMPROVEMENT	0	6
MAJOR CONSTRUCTION	16	69073
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	0	0
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM:		
FACILITIES EVALUATED	19	77343
NEGIGIBLE	8	29838
MINOR	5	14542
MAJOR	5	30701
EFFECT ON RECEIVING STREAM UNKNOWN	0	0

TALLY FOR WABASH  
SUMMARY OF FACILITY NEEDS

I EXISTING FACILITIES

	MUNICIPAL FACILITIES	POPULATION	INDUSTRIAL FACILITIES
TOTAL	312	224,6033	121
NO IDENTIFIED NEEDS	189	165,831	112
IMPROVEMENTS NEEDED	123	587,402	9
A. FACILITIES NEEDING INCREASED TREATMENT LEVEL	87	356,436	6
1. UPGRADE TO SECONDARY TREATMENT	8	18510	0
SECONDARY UPGRADES UNDER CONSTRUCTION	1	6,240	0
2. UPGRADE TO TERTIARY TREATMENT	78	339,009	0
TERTIARY UPGRADES UNDER CONSTRUCTION	14	93,560	0
B. FACILITIES NEEDING INCREASED CAPACITY	15	142,835	1
1. FACILITIES WITH SECONDARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	11	120,695	0
2. FACILITIES WITH TERTIARY TREATMENT EXPANSION PROJECTS UNDER CONSTRUCTION	2	42,000	0
C. FACILITIES NEEDING INCREASED TREATMENT + CAPACITY	17	72,551	2
1. UPGRADE TO SECONDARY + EXPANSION PROJECTS UNDER CONSTRUCTION	2	35,200	0
2. UPGRADE TO TERTIARY + EXPANSION PROJECTS UNDER CONSTRUCTION	15	1240	0
D. FACILITIES NEEDING REPLACEMENT	3	39,931	0
1. CURRENTLY WITH SECONDARY TREATMENT OR LESS REPLACEMENTS UNDER CONSTRUCTION	4	124,320	0
2. CURRENTLY WITH TERTIARY TREATMENT REPLACEMENTS UNDER CONSTRUCTION	0	0	0
II NEW FACILITIES			
TOTAL	54	32610	0
A. SECONDARY TREATMENT REQUIRED	22	14813	0
NEW FACILITIES UNDER CONSTRUCTION	0	0	0
B. TERTIARY TREATMENT REQUIRED	32	17797	0
NEW FACILITIES UNDER CONSTRUCTION	4	1828	0

SUMMARY OF TYPE OF TREATMENT

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NO TREATMENT	54	32618	0
LESS THAN RELIABLE SECONDARY TREATMENT	12	42300	0
RELIABLE SECONDARY TREATMENT	185	864254	1
TERTIARY TREATMENT	115	1339479	4
NONCONVENTIONAL TRT. MEETING REQUIREMENTS	0	0	106
NONCONVENTIONAL TRT. NOT MEETING REQUIREMENTS	0	0	10

SUMMARY OF PHASE OF PROJECT

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NONE (NO PROJECT)	133	577659	104
NO ACTION	38	37318	2
ACTION INITIATED	4	4897	3
STEP ONE	103	384955	2
STEP TWO	18	50128	1
STEP THREE	27	174548	1
CONSTRUCTION COMPLETE	0	0	0

III. SPECIAL DATA SUMMARY - 1983

MUNICIPAL FACILITIES	POPULATION
EXISTING FACILITIES WITH IMPROVEMENT NEEDED COMPLIANCE WITH APPLIED NPDES LIMITS: FACILITIES EVALUATED	587402
IN COMPLIANCE	572846
CONTINUOUS NON COMPLIANCE	373881
OCCASIONAL NON COMPLIANCE OR I/I RELATED PROBLEMS	52810
COMPLIANCE WITH APPLIED NPDES LIMITS UNKNOWN	145155
AGE OF FACILITY: FACILITIES EVALUATED	8
10 YEARS OR LESS	123
10 - 20 YEARS	118
OVER 20 YEARS	84
AGE OF FACILITY NOT KNOWN OR ESTIMATED	13
REASON FOR FACILITY EXPANSION: FACILITIES EVALUATED	24
CURRENT OVERLOAD AND/OR I/I RELATED PROBLEMS	0
NEAR OVERLOAD	0
REASON FOR FACILITY EXPANSION UNKNOWN	0
REASON FOR FACILITY UPGRADE OR REPLACEMENT: FACILITIES EVALUATED	36
FAILURES DUE TO FACILITY AGE	110
TO MEET TECHNOLOGY OR WATER QUALITY STANDARDS	23
ABANDON TO REGIONAL PLANT	58
REASON FOR FACILITY UPGRADE OR REPLACEMENT UNKNOWN	4
EXTENT OF NEEDED CONSTRUCTION: FACILITIES EVALUATED	19
MINOR CONSTRUCTION OR Q & M IMPROVEMENT	123
MAJOR CONSTRUCTION	79
EXTENT OF NEEDED CONSTRUCTION UNKNOWN	18
CURRENT EFFECT OF FACILITY ON RECEIVING STREAM: FACILITIES EVALUATED	72196
NEGIGIBLE	586432
MINOR	148723
MAJOR	49183
EFFECT ON RECEIVING STREAM UNKNOWN	248138
	88910
	58268

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