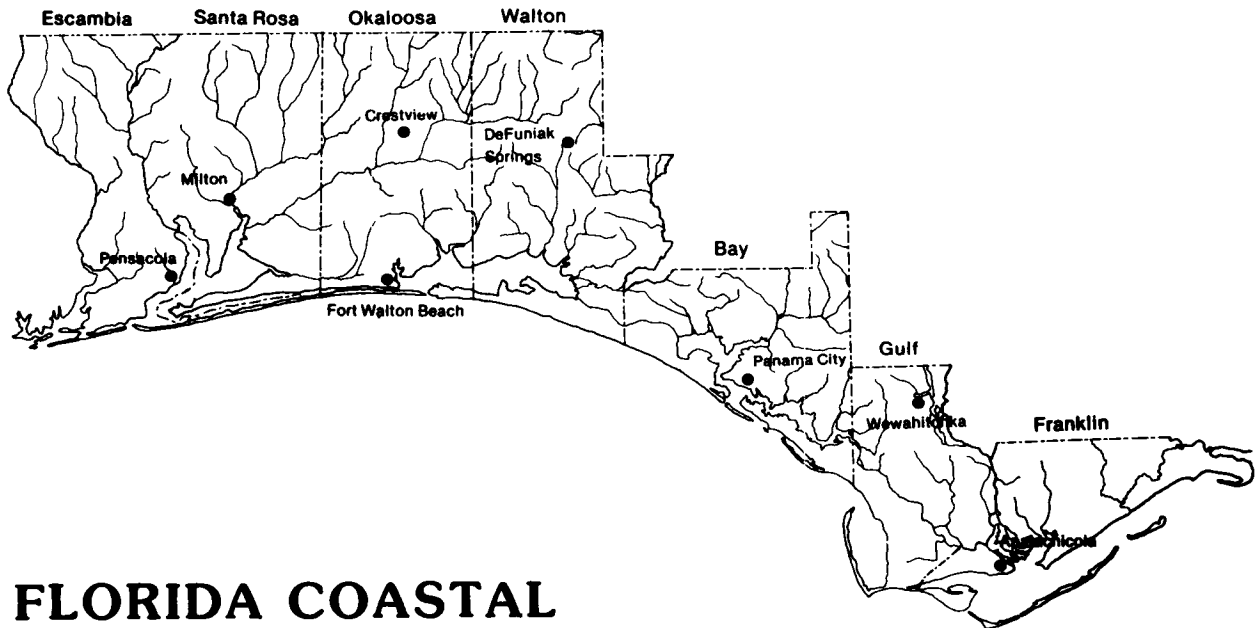


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FWS/OBS-83/15  
August 1983



# FLORIDA COASTAL ECOLOGICAL CHARACTERIZATION:

## A Socioeconomic Study of the Northwestern Region

VOLUME II  
DATA APPENDIX Part 2

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Fish and Wildlife Service  
U.S. Department of the Interior

FWS/OBS-83/15  
August 1983

FLORIDA COASTAL ECOLOGICAL CHARACTERIZATION: A  
SOCIOECONOMIC STUDY OF THE NORTHWESTERN REGION

Volume II  
DATA APPENDIX  
Part 2

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U.S. Department of the Interior

and the

Division of Biological Services  
Fish and Wildlife Service  
U.S. Department of the Interior  
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## PREFACE

The purpose of this socioeconomic characterization study is to compile and synthesize information from existing sources about the social and economic characteristics of the northwestern coastal region of Florida, which is made up of Charlotte, Collier, DeSoto, Hillsborough, Lee, Manatee, Monroe, Pasco, Pinellas, and Sarasota Counties. This report and the data appendix should prove useful for coastal planning and management; it is one in a series of characterizations of coastal socioeconomic systems produced by the U.S. Fish and Wildlife Service. The series describes the components and interrelationships among complex processes that include population and demographic characteristics, mineral production, multiple-use conflicts, recreation and tourism, agricultural production, sport and commercial fishing, transportation, industrial and residential development, and environmental issues and regulations.

This study originally was under contract with the NANEX Systems Corporation, Crestview, Florida. The corporation is responsible for the compilations and accuracy of the Data Appendices and their lists of references. Most of the first drafts of the various chapters were prepared in 1980. Only a few of the sections of some of the reports have since been updated.

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## ABBREVIATIONS

|                 |  |
|-----------------|--|
| A/C             | Air conditioning   |
| A F B           | Air Force Base   |
| AFDC            | Aid to families with dependent children                        |
| AGR             | Agriculture  |
| Ave             | Avenue   |
| bb1             | Barrel, barrels  |
| Btu             | British thermal unit   |
| BOD             | Biochemical oxygen demand                                      |
| Co              | Company  |
| Corp            | Corporation  |
| Ct              | Court  |
| cwt             | Hundredweight  |
| D               | Data withheld to avoid disclosure of individual establishments |
| dB              | Decibel  |
| Dr              | Drive  |
| DRI             | Development of regional impact                                 |
| du              | Dwelling units   |
| E               | Endangered   |
| E               | East   |
| EIR             | Environmental Issues and Regulations                           |
| EMP             | Employment   |
| ENE             | East northeast   |
| EPA             | Environmental Protection Agency                                |
| est             | Estimate   |
| FCOLI           | Fecal coliform   |
| ft              | Foot, feet   |
| ft <sup>2</sup> | Square foot, square feet                                       |
| ft <sup>3</sup> | Cubic foot, cubic feet   |
| FSH             | Fish   |
| FY              | Fiscal year  |
| gal             | Gallon, gallons  |
| GFWFC           | Game and Fresh water Fish Commission                           |
| GW              | Ground water   |
| ha              | Hectare, hectares  |
| H H             | Head of household  |
| Hwy             | Highway  |
| Inc             | Incorporated   |
| Jct             | Junction   |
| km              | Kilometer  |
| kwh             | Kilowatthour   |
| kV              | Kilovolt   |
| lb              | Pound, pounds  |
| lf              | Landfill   |
| lin ft          | Linear foot, linear feet                                       |
| LPG             | Liquid petroleum gas   |
| LU              | Land use   |
| Ltd             | Limited  |
| m/day           | Meters per day   |
| Mcf             | Million cubic feet   |

|                    |                                      |
|--------------------|--------------------------------------|
| Mgal/d             | Million gallons per day              |
| mg/l               | Milligrams per liter                 |
| MHP                | Mobile home park                     |
| mi                 | Mile, miles                          |
| mi <sup>2</sup>    | Square mile, square miles            |
| misc.              | Miscellaneous                        |
| mm                 | Millimeter                           |
| MP                 | Minerals Production                  |
| MW                 | Monitoring wells, megawatts          |
| MWh                | Megawatthours                        |
| N.                 | North                                |
| N.A.               | Not applicable                       |
| N.D.               | No data                              |
| NE.                | Northeast                            |
| NNW.               | North northwest                      |
| NRP                | No reported production               |
| NTSB               | National Transportation Safety Board |
| NW.                | Northwest                            |
| oz                 | Ounce                                |
| POP                | Population                           |
| ppm                | Parts per million                    |
| PU                 | Public utilities                     |
| Rd.                | Road                                 |
| RR.                | Railroad                             |
| Rt.                | Route                                |
| R/T                | Recreation and Tourism               |
| RV                 | Recreational vehicle                 |
| S.                 | South                                |
| SCi                | Special category item                |
| SD                 | Subdivision                          |
| SE.                | Southeast                            |
| SER                | Services (health)                    |
| SIC                | Standard Industrial Code             |
| slf                | Sanitary landfill                    |
| SR                 | State road                           |
| SSC                | Species of special concern           |
| St.                | Street                               |
| STP                | Sewage treatment plant               |
| SW.                | Southwest                            |
| SW                 | Surface water                        |
| T                  | Threatened                           |
| tbb1               | Thousand barrels                     |
| TCOLI              | Total coliform                       |
| TP                 | Trailer park                         |
| TRANS              | Transportation                       |
| TSS                | Total suspended solids               |
| ug/m <sup>2</sup>  | Micrograms per square meter          |
| UR                 | Under review                         |
| W.                 | West                                 |
| WLA                | Waste load allocation                |
| yd <sub>3</sub>    | Yard, yards                          |
| yd <sub>3</sub>    | Cubic yards                          |
| yd <sup>3</sup> /d | Cubic yards per day                  |

## SYMBOLS

|    |                 |
|----|-----------------|
| \$ | Dollar, dollars |
| %  | Percent         |
| "  | Inch, inches    |
| #  | Number          |
| &  | And             |

## METRIC-ENGLISH EQUIVALENTS

### Distance

1 cm = 0.39 in  
1 m = 39.38 in  
1 km = 0.62 mi

1 in = 2.54 cm  
1 ft = 0.30 m  
1 yd = 0.91 m  
1 mi = 1.61 km

### Area

1 m<sup>2</sup> = 1.2 yd<sup>2</sup>  
1 km<sup>2</sup> = 0.39 mi<sup>2</sup>  
1 ha = 2.5 acres

1 ft<sup>2</sup> = 0.09 m<sup>2</sup>  
1 yd<sup>2</sup> = 0.83 m<sup>2</sup>  
1 acre = 0.40 ha  
1 mi<sup>2</sup> = 2.59 km<sup>2</sup>

### Weight

1 g = 0.035 oz  
1 kg = 2.20 lb  
1 mt (1,000 kg) = 1.1 t (2,204.6 lb)

1 oz = 28.35 g  
1 lb = 453.60 g  
1 lb = 0.45 kg  
1 t = 0.91 mt

### Volume

1 ml = 0.03 fl oz  
1 liter = 2.1 pt  
1 liter = 1.06 qt  
1 bbl = 42 gal  
1 m<sup>3</sup> = 35 ft<sup>3</sup>  
1 m<sup>3</sup> = 1.3 yd<sup>3</sup>

1 fl oz = 29.57 ml  
1 pt = 0.47 liter  
1 qt = 0.95 liter  
1 gal = 3.79 liter  
1 ft<sup>3</sup> = 0.03 m<sup>3</sup>  
1 yd<sup>3</sup> = 0.76 m<sup>3</sup>

### Temperature

C° = 5/9 (F° - 32)

F° = 9/5C° + 32

PUBLIC UTILITIES (PU)

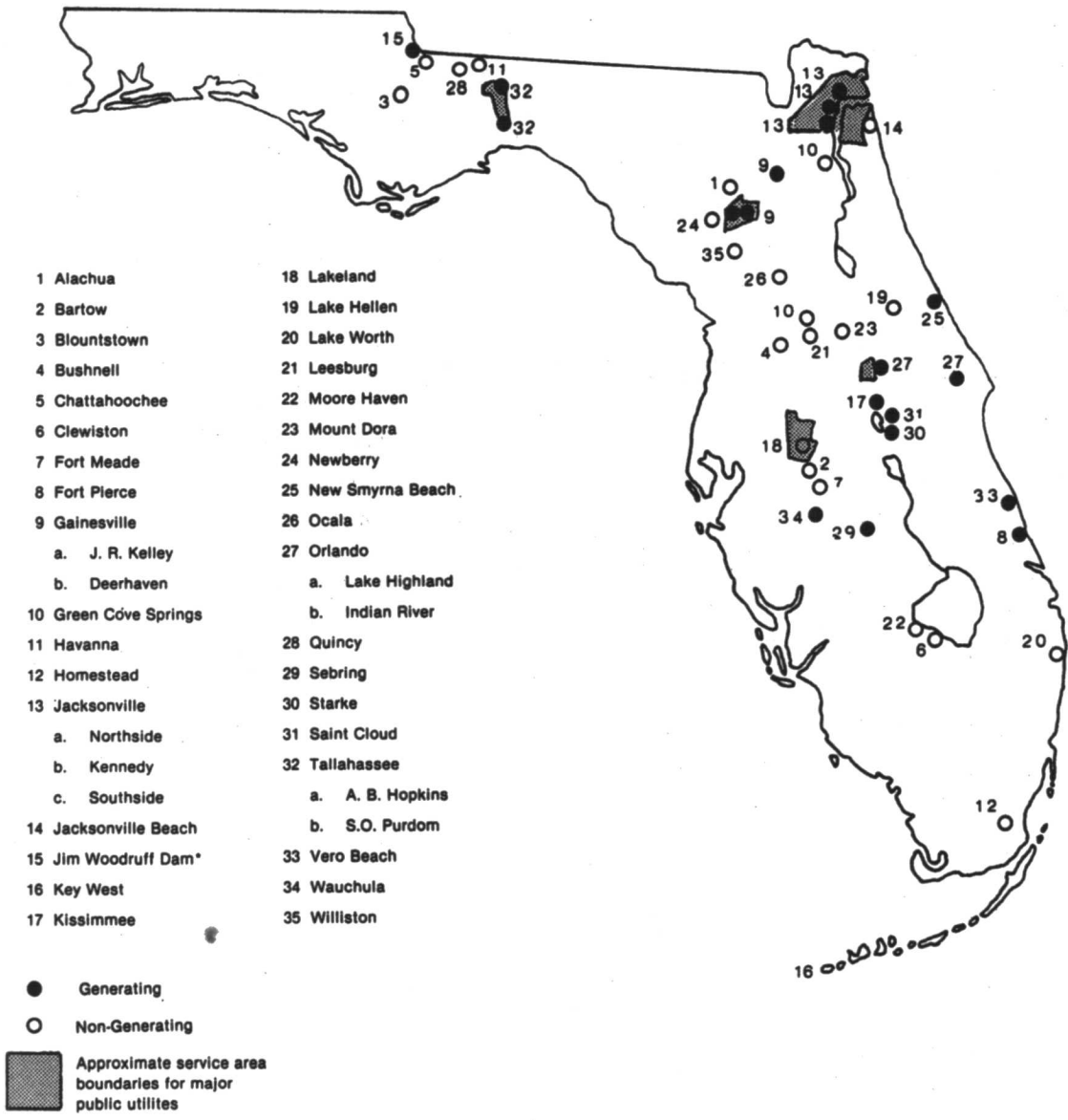


Figure 1. Publicly owned utilities (Florida Public Service Commission 1979).

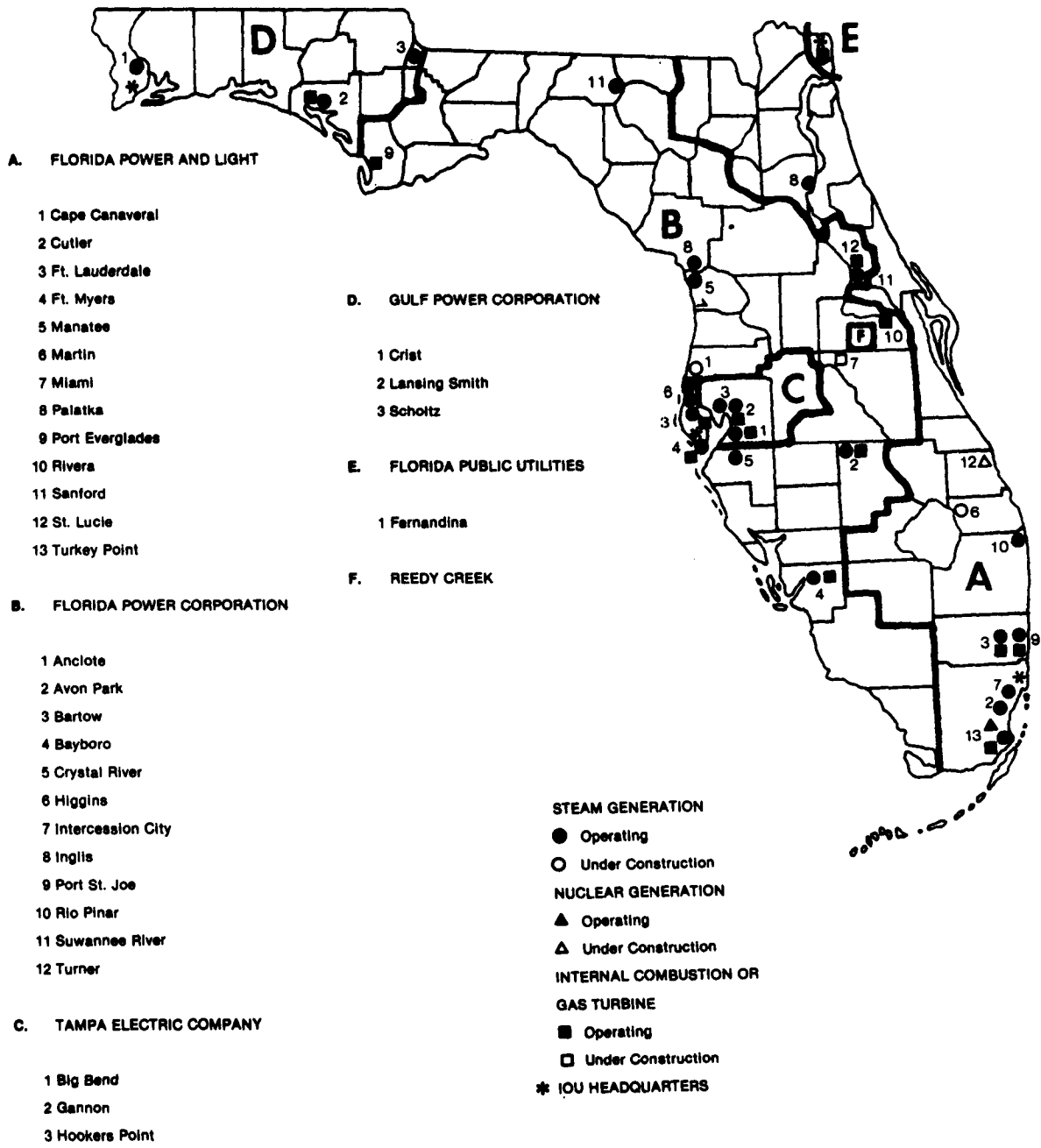


Figure 2. Privately owned utilities (Florida Public Service Commission 1979).

Table PU 1. Counties served by electrical utilities in 1979 (Florida Public Service Commission, Research and Management Studies Department 1980).

| County     | Florida Power Corporation | Gulf Power Corporation | Choctawhatchee <sup>a</sup> | Escambia <sup>a</sup> River |
|------------|---------------------------|------------------------|-----------------------------|-----------------------------|
| Bay        | X                         | X                      |                             |                             |
| Escambia   |                           | X                      |                             |                             |
| Franklin   | X                         |                        |                             | X                           |
| Gulf       | X                         |                        |                             |                             |
| Okaloosa   |                           | X                      | X                           |                             |
| Santa Rosa |                           | X                      | X                           | X                           |
| Walton     |                           | X                      | X                           |                             |

4

| County     | Alabama Power | Gulf <sup>a</sup> Coast | Talquin <sup>a</sup> |
|------------|---------------|-------------------------|----------------------|
| Bay        |               |                         |                      |
| Escambia   |               |                         |                      |
| Franklin   |               |                         |                      |
| Gulf       |               | X                       |                      |
| Okaloosa   | X             |                         |                      |
| Santa Rosa |               |                         |                      |
| Walton     |               |                         | X                    |

<sup>a</sup> Non-generating rural electric cooperatives.



Table PU 2. Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1955 (U.S. Federal Power Commission ca. 1965c).

| Generating plant            | Net generation<br>(million kWh) | Fuel consumed in 1955 |                         |          |                         |
|-----------------------------|---------------------------------|-----------------------|-------------------------|----------|-------------------------|
|                             |                                 | Coal                  |                         | Oil      |                         |
|                             |                                 | 1000 tons             | \$ Cost per ton<br>(\$) | 1000 bbl | \$ Cost per bbl<br>(\$) |
| Florida Power Corp.         |                                 |                       |                         |          |                         |
| Avon Park                   | 242.00                          | 0                     | 0                       | 436.50   | 2.51                    |
| Bayboro                     | 349.90                          | 0                     | 0                       | 745.50   | 2.16                    |
| Higgins                     | 817.60                          | 0                     | 0                       | 1,435.00 | 2.16                    |
| Inglis                      | 204.70                          | 0                     | 0                       | 471.20   | 2.24                    |
| Suwanee River               | 381.10                          | 0                     | 0                       | 476.80   | 2.65                    |
| G.E. Turner                 | 230.10                          | 0                     | 0                       | 450.90   | 2.34                    |
| Florida Power and Light Co. |                                 |                       |                         |          |                         |
| Cutler                      | 1,418.70                        | 0                     | 0                       | 2,480.80 | 2.30                    |
| Lauderdale                  | 269.40                          | 0                     | 0                       | 620.20   | 2.23                    |
| Miami                       | 279.00                          | 0                     | 0                       | 608.20   | 2.24                    |
| Miami Beach                 | 155.20                          | 0                     | 0                       | 318.30   | 2.27                    |
| Palatka                     | 252.50                          | 0                     | 0                       | 490.90   | 2.31                    |
| Riviera                     | 695.50                          | 0                     | 0                       | 1,263.80 | 2.20                    |
| Sarasota                    | 216.30                          | 0                     | 0                       | 438.70   | 2.29                    |

Continued

Table PU 2. Continued.

| Generating plant            | Fuel consumed in 1955   |                                       | Average<br>Btu per kWh |
|-----------------------------|-------------------------|---------------------------------------|------------------------|
|                             | Gas                     |                                       |                        |
|                             | Million ft <sup>3</sup> | Cost per 1000 ft <sup>3</sup><br>(\$) |                        |
| Florida Power Corp.         |                         |                                       |                        |
| Avon Park                   | 0                       | 0                                     | 11,370                 |
| Bayboro                     | 0                       | 0                                     | 13,465                 |
| Higgins                     | 0                       | 0                                     | 11,100                 |
| Inglis                      | 0                       | 0                                     | 14,575                 |
| Suwanee River               | 0                       | 0                                     | 11,885                 |
| G.E. Turner                 | 0                       | 0                                     | 12,265                 |
| Florida Power and Light Co. |                         |                                       |                        |
| Cutler                      | 0                       | 0                                     | 11,059                 |
| Lauderdale                  | 0                       | 0                                     | 14,499                 |
| Miami                       | 0                       | 0                                     | 13,802                 |
| Miami Beach                 | 0                       | 0                                     | 12,954                 |
| Palatka                     | 0                       | 0                                     | 12,164                 |
| Riviera                     | 0                       | 0                                     | 11,493                 |
| Sarasota                    | 0                       | 0                                     | 12,737                 |

Continued

Table PU 2. Concluded.

| Generating plant                         | Net generation<br>(million kWh) | Fuel consumed in 1955 |                      |           |                      |
|--|---------------------------------|-----------------------|----------------------|-----------|----------------------|
|  |                                 | Coal                  |                      | Oil       |                      |
|  |                                 | 1000 tons             | Cost per ton<br>(\$) | 1000 bbl  | Cost per bbl<br>(\$) |
| Gulf Power Co.                           |                                 |                       |                      |           |                      |
| Pensacola (Crist)                        | 456 .60                         | 0                     | 0                    | 0         | 0                    |
| River Junction (Scholz)                  | 398 .10                         | 174 .90               | 6 .75                | 0         | 0                    |
| Utility Board of the City of<br>Key West | 58 .30                          | 0                     | 0                    | 138 .20   | 2 .58                |
| Tampa Electric Co.                       |                                 |                       |                      |           |                      |
| Hookers Point                            | 1,053 .10                       | 0                     | 0                    | 1,940 .90 | 2 .15                |
| Peter O. Knight                          | 225 .50                         | 0                     | 0                    | 552 .60   | 2 .15                |

Table PU 3. Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1960 (U.S. Federal Power Commission ca. 1961c).

| Generating plant              | Net generation<br>(million kWh) | Fuel consumed in 1960 |                      |          |                      |
|-------------------------------|---------------------------------|-----------------------|----------------------|----------|----------------------|
|                               |                                 | Coal                  |                      | Oil      |                      |
|                               |                                 | 1000 tons             | Cost per ton<br>(\$) | 1000 bbl | Cost per bbl<br>(\$) |
| Florida Power Corp.           |                                 |                       |                      |          |                      |
| Avon Park                     | 227.00                          | 0                     | 0                    | 39.90    | 2.57                 |
| Bayboro                       | 256.10                          | 0                     | 0                    | 549.70   | 2.32                 |
| G.E. Turner                   | 798.50                          | 0                     | 0                    | 41.20    | 2.44                 |
| Higgins                       | 621.90                          | 0                     | 0                    | 1,043.40 | 2.28                 |
| Inglis                        | 140.60                          | 0                     | 0                    | 57.10    | 2.48                 |
| P.L. Bartow                   | 755.00                          | 0                     | 0                    | 37.40    | 2.29                 |
| Suwanee River                 | 366.80                          | 0                     | 0                    | 18.00    | 2.91                 |
| ∞ Florida Power and Light Co. |                                 |                       |                      |          |                      |
| Cutler                        | 1,846.20                        | 0                     | 0                    | 495.40   | 2.34                 |
| Fort Myers                    | 779.10                          | 0                     | 0                    | 123.10   | 2.23                 |
| Lauderdale                    | 1,958.70                        | 0                     | 0                    | 840.10   | 2.33                 |
| Miami                         | 219.10                          | 0                     | 0                    | 370.80   | 2.36                 |
| Miami Beach                   | 52.80                           | 0                     | 0                    | 117.30   | 2.37                 |
| Palatka                       | 516.20                          | 0                     | 0                    | 461.50   | 2.13                 |
| Riviera                       | 631.00                          | 0                     | 0                    | 1,059.20 | 2.04                 |
| Port Everglades               | 695.90                          | 0                     | 0                    | 1,079.60 | 2.05                 |
| Sanford                       | 914.10                          | 0                     | 0                    | 41.60    | 2.18                 |
| Sarasota                      | 51.40                           | 0                     | 0                    | 89.10    | 2.24                 |

Continued

Table PU 3. Continued.

| Generating plant            | Fuel consumed in 1955   |                                       | Average<br>Btu per kWh |
|-----------------------------|-------------------------|---------------------------------------|------------------------|
|                             | Gas                     |                                       |                        |
|                             | Million ft <sup>3</sup> | Cost per 1000 ft <sup>3</sup><br>(\$) |                        |
| Florida Power Corp.         |                         |                                       |                        |
| Avon Park                   | 0                       | 0                                     | 12,879                 |
| Bayboro                     | 549.70                  | 2.32                                  | 13,617                 |
| G.E. Turner                 | 0                       | 0                                     | 11,118                 |
| Higgins                     | 0                       | 0                                     | 11,847                 |
| Inglis                      | 1,475.80                | 35.20                                 | 13,825                 |
| P.L. Bartow                 | 7,106.40                | 34.64                                 | 10,364                 |
| Suwanee River               | 3,768.80                | 37.96                                 | 11,112                 |
| Florida Power and Light Co. |                         |                                       |                        |
| Cutler                      | 17,780.30               | 34.80                                 | 11,316                 |
| Fort Myers                  | 0                       | 0                                     | 9,971                  |
| Lauderdale                  | 16,239.10               | 34.90                                 | 10,983                 |
| Miami                       | 656.10                  | 34.80                                 | 13,636                 |
| Miami Beach                 | 0                       | 0                                     | 13,959                 |
| Palatka                     | 2,291.00                | 34.80                                 | 11,252                 |
| Riviera                     | 799.80                  | 34.90                                 | 11,848                 |
| Port Everglades             | 0                       | 0                                     | 9,755                  |
| Sanford                     | 9,271.60                | 34.80                                 | 10,430                 |
| Sarasota                    | 175.50                  | 34.80                                 | 14,369                 |

Continued

Table PU 3. Concluded.

| Generating plant                         | Net generation<br>(million kWh) | Fuel consumed in 1955 |                      |          |                      |
|--|---------------------------------|-----------------------|----------------------|----------|----------------------|
|  |                                 | Coal                  |                      | Oil      |                      |
|  |                                 | 1000 tons             | Cost per ton<br>(\$) | 1000 bbl | Cost per bbl<br>(\$) |
| Gulf Power Co.                           |                                 |                       |                      |          |                      |
| Pensacola (Crist)                        | 710.90                          | 212.80                | 6.07                 | 0        | 0                    |
| River Junction (Scholz)                  | 364.90                          | 166.00                | 7.50                 | 0        | 0                    |
| Utility Board of the City of<br>Key West | 99.70                           | 0                     | 0                    | 209.30   | 2.51                 |
| Tampa Electric Co.                       |                                 |                       |                      |          |                      |
| Hookers Point                            | 686.90                          | 0                     | 0                    | 1,349.00 | 2.21                 |
| Peter O. Knight                          | 181.50                          | 0                     | 0                    | 552.60   | 2.15                 |
| F.J. Gannon                              | 1,629.10                        | 725.70                | 7.78                 | 0        | 0                    |

| Generating plant                         | Fuel consumed in 1955   |                                       |             |
|--|-------------------------|---------------------------------------|-------------|
|  | Gas                     |                                       | Average     |
|  | Million ft <sup>3</sup> | Cost per 1000 ft <sup>3</sup><br>(\$) | Btu per kWh |
| Gulf Power Co.                           |                         |                                       |             |
| Pensacola (Crist)                        | 2,322.40                | 29.67                                 | 23,886      |
| River Junction (Scholz)                  | 0                       | 0                                     | 11,649      |
| Utility Board of the City of<br>Key West | 0                       | 0                                     | 0           |
| Tampa Electric Co.                       |                         |                                       |             |
| Hookers Point                            | 0                       | 0                                     | 10,760      |
| Peter O. Knight                          | 0                       | 0                                     | 15,957      |
| F.J. Gannon                              | 0                       | 0                                     | 10,760      |

Table PU 4. Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1965 (U.S. Federal Power Commission 1966a).

| Generating plant            | Net generation<br>(million kWh) | Fuel consumed in 1965 |                      |           |                      |
|-----------------------------|---------------------------------|-----------------------|----------------------|-----------|----------------------|
|                             |                                 | Coal                  |                      | Oil       |                      |
|                             |                                 | 1000 tons             | Cost per ton<br>(\$) | 1000 bbl  | Cost per bbl<br>(\$) |
| Florida Power Corp.         |                                 |                       |                      |           |                      |
| Avon Park                   | 186 .20                         | 0                     | 0                    | 0         | 0                    |
| P.L. Bartow                 | 2,413 .00                       | 0                     | 0                    | 3,489 .20 | 2.31                 |
| Bayboro                     | 186 .30                         | 0                     | 0                    | 412 .50   | 2.37                 |
| Higgins                     | 536 .70                         | 0                     | 0                    | 249 .60   | 2.43                 |
| Suwanee                     | 540 .00                         | 0                     | 0                    | 38 .90    | 2.69                 |
| G.E. Turner                 | 999 .80                         | 0                     | 0                    | 11 .60    | 2.63                 |
| Florida Power and Light Co. |                                 |                       |                      |           |                      |
| Cape Kennedy                | 1,572 .10                       | 0                     | 0                    | 2,391 .00 | 2.06                 |
| Fort Myers                  | 457 .50                         | 0                     | 0                    | 746 .70   | 2.25                 |
| Lauderdale                  | 706 .70                         | 0                     | 0                    | 359 .90   | 2.17                 |
| Palatka                     | 427 .50                         | 0                     | 0                    | 0         | 0                    |
| Cutler                      | 1,090 .80                       | 0                     | 0                    | 6 .40     | 2.21                 |
| Port Everglades             | 5,565 .80                       | 0                     | 0                    | 8,491 .90 | 2.06                 |
| Riviera                     | 2,835 .70                       | 0                     | 0                    | 3,116 .20 | 2.03                 |
| Sanford                     | 576 .00                         | 0                     | 0                    | 198 .30   | 2.14                 |

Continued

Table PU 4. Continued.

| Generating plant            | Fuel consumed in 1965   |                                       | Average<br>Btu per kWh |
|-----------------------------|-------------------------|---------------------------------------|------------------------|
|                             | Gas                     |                                       |                        |
|                             | Million ft <sup>3</sup> | Cost per 1000 ft <sup>3</sup><br>(\$) |                        |
| Florida Power Corp.         |                         |                                       |                        |
| Avon Park                   | 2,143.90                | 31.99                                 | 11,922                 |
| P.L. Bartow                 | 1,740.50                | 32.40                                 | 9,857                  |
| Bayboro                     | 0                       | 0                                     | 14,068                 |
| Higgins                     | 4,759.50                | 32.18                                 | 12,051                 |
| Suwanee                     | 5,578.40                | 36.51                                 | 11,327                 |
| G.E. Turner                 | 10,789.60               | 32.28                                 | 11,190                 |
| Florida Power and Light Co. |                         |                                       |                        |
| Cape Kennedy                | 0                       | 0                                     | 9,537                  |
| Fort Myers                  | 0                       | 0                                     | 10,330                 |
| Lauderdale                  | 5,360.70                | 34.50                                 | 10,830                 |
| Palatka                     | 2,072.00                | 34.40                                 | 11,003                 |
| Port Everglades             | 0                       | 0                                     | 9,606                  |
| Riviera                     | 8,226.80                | 34.50                                 | 9,791                  |
| Sanford                     | 4,969.10                | 34.50                                 | 10,776                 |

Continued



Table PU 4. Concluded.

| Generating plant                         | Net generation<br>(million kWh) | Fuel consumed in 1965 |                      |          |                      |
|--|---------------------------------|-----------------------|----------------------|----------|----------------------|
|  |                                 | Coal                  |                      | Oil      |                      |
|  |                                 | 1000 tons             | Cost per ton<br>(\$) | 1000 bbl | Cost per bbl<br>(\$) |
| Gulf Power Co.                           |                                 |                       |                      |          |                      |
| Pensacola (Crist)                        | 1,303.00                        | 455.70                | 6.28                 | 0        | 0                    |
| River Junction (Scholz)                  | 267.90                          | 128.20                | 7.44                 | 0        | 0                    |
| Utility Board of the City of<br>Key West | 177.20                          | 0                     | 0                    | 390.30   | 0                    |
| Lansing Smith                            | 507.60                          | 212.30                | 5.74                 | 0        | 0                    |
| Tampa Electric Co.                       |                                 |                       |                      |          |                      |
| Hookers Point                            | 627.60                          | 0                     | 0                    | 1,272.20 | 2.07                 |
| F.J. Gannon                              | 3,441.00                        | 1,526.40              | 6.60                 | 0        | 0                    |

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| Generating plant                         | Fuel consumed in 1965   |                                       |             |
|--|-------------------------|---------------------------------------|-------------|
|  | Gas                     |                                       | Average     |
|  | Million ft <sup>3</sup> | Cost per 1000 ft <sup>3</sup><br>(\$) | Btu per kWh |
| Gulf Power Co.                           |                         |                                       |             |
| Pensacola (Crist)                        | 1,718.20                | 23.97                                 | 10,231      |
| River Junction (Scholz)                  | 0                       | 0                                     | 12,041      |
| Utility Board of the City of<br>Key West | 0                       | 0                                     | 13,769      |
| Tampa Electric Co.                       |                         |                                       |             |
| Hookers Point                            | 0                       | 0                                     | 12,775      |
| F.J. Gannon                              | 0                       | 0                                     | 10,278      |

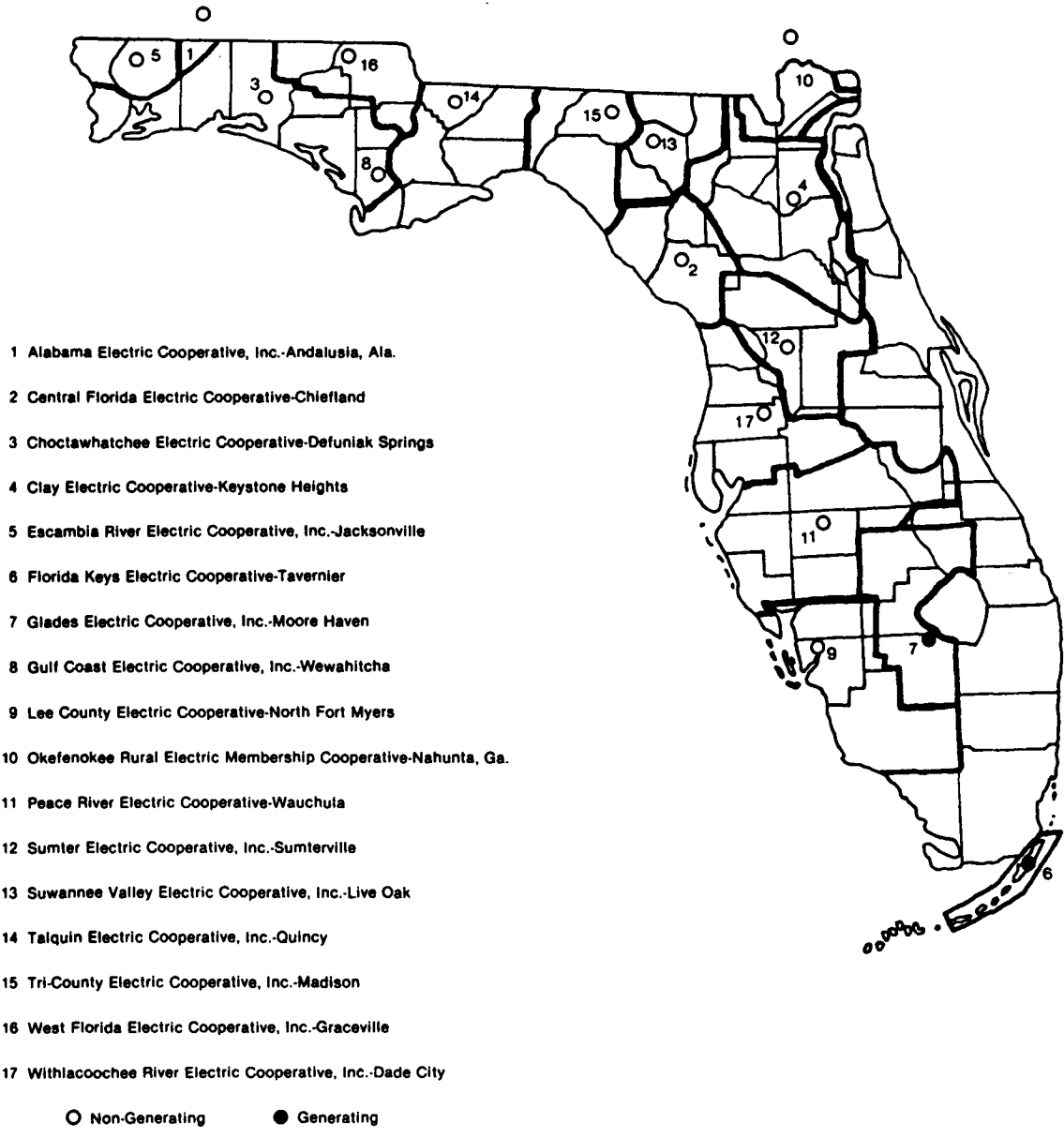


Figure 3. Rural electric cooperatives (Florida Public Service Commission 1979).

Table PU 5. Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1970 (U.S. Federal Power Commission 1972c).

| Generating plant            | Net generation<br>(million kWh) | Fuel consumed in 1970 |                      |           |                      |
|-----------------------------|---------------------------------|-----------------------|----------------------|-----------|----------------------|
|                             |                                 | Coal                  |                      | Oil       |                      |
|                             |                                 | 1000 tons             | Cost per ton<br>(\$) | 1000 bbl  | Cost per bbl<br>(\$) |
| Florida Power Corp.         |                                 |                       |                      |           |                      |
| Avon Park                   | 228 .40                         | 0                     | 0                    | 102 .10   | 2 .34                |
| P.L. Bartow                 | 2,987 .00                       | 0                     | 0                    | 4,325 .20 | 1 .71                |
| Crystal River               | 3,503 .30                       | 1,072 .30             | 6 .85                | 1,707 .10 | 1 .83                |
| Higgins                     | 700 .70                         | 0                     | 0                    | 855 .00   | 1 .77                |
| Suwanee                     | 839 .40                         | 0                     | 0                    | 680 .60   | 2 .33                |
| G.E. Turner                 | 1,059 .50                       | 0                     | 0                    | 54 .80    | 2 .39                |
| Florida Power and Light Co. |                                 |                       |                      |           |                      |
| Cape Kennedy                | 4,224 .30                       | 0                     | 0                    | 3,177 .30 | 1 .87                |
| Cutler                      | 858 .00                         | 0                     | 0                    | 215 .60   | 2 .26                |
| Fort Myers                  | 2,341 .00                       | 0                     | 0                    | 3,606 .50 | 2 .13                |
| Lauderdale                  | 1,655 .00                       | 0                     | 0                    | 764 .70   | 1 .89                |
| Palatka                     | 341 .90                         | 0                     | 0                    | 438 .30   | 1 .83                |
| Port Everglades             | 6,798 .90                       | 0                     | 0                    | 6,660 .20 | 2 .09                |
| Riviera                     | 3,776 .50                       | 0                     | 0                    | 2,464 .30 | 1 .75                |
| Sanford                     | 600 .70                         | 0                     | 0                    | 817 .30   | 1 .88                |
| Turkey Point                | 4,342 .00                       | 0                     | 0                    | 4,615 .10 | 1 .82                |

Continued

Table PU 5. Continued.

| Generating plant            | Fuel consumed in 1970   |                                       | Average<br>Btu per kWh |
|-----------------------------|-------------------------|---------------------------------------|------------------------|
|                             | Gas                     |                                       |                        |
|                             | Million ft <sup>3</sup> | Cost per 1000 ft <sup>3</sup><br>(\$) |                        |
| Florida Power Corp.         |                         |                                       |                        |
| Avon Park                   | 2,134 .90               | 38 .67                                | 12,404                 |
| P.L. Bartow                 | 1,790 .80               | 41 .70                                | 9,643                  |
| Crystal River               |                         |                                       | 9,936                  |
| Higgins                     | 2,944 .30               | 41 .16                                | 12,006                 |
| Suwanee                     | 4,967 .60               | 36 .31                                | 11,259                 |
| G.E. Turner                 | 11,545 .70              | 39 .30                                | 11,504                 |
| Florida Power and Light Co. |                         |                                       |                        |
| Cape Kennedy                | 21,748 .60              | 36 .60                                | 9,873                  |
| Cutler                      | 9,205 .10               | 36 .30                                | 12,305                 |
| Fort Myers                  |                         |                                       | 9,745                  |
| Lauderdale                  | 12,783 .80              | 36 .50                                | 10,619                 |
| Palatka                     | 1,317 .30               | 37 .30                                | 11,850                 |
| Port Everglades             | 1,000 .00               | 36 .10                                | 10,035                 |
| Riviera                     | 23,114 .60              | 36 .60                                | 10,308                 |
| Sanford                     | 1,194 .10               | 38 .90                                | 10,466                 |
| Turkey Point                | 13,232 .80              | 36 .30                                | 9,691                  |

Continued

Table PU 5. Concluded.

| Generating plant        | Net generation<br>(million kWh) | Fuel consumed in 1970 |                      |          |                      |
|-------------------------|---------------------------------|-----------------------|----------------------|----------|----------------------|
|                         |                                 | Coal                  |                      | Oil      |                      |
|                         |                                 | 1000 tons             | Cost per ton<br>(\$) | 1000 bbl | Cost per bbl<br>(\$) |
| Gulf Power Co.          |                                 |                       |                      |          |                      |
| Pensacola (Crist)       | 2,555.60                        | 351.00                | 7.56                 | 0        | 0                    |
| River Junction (Scholz) | 389.40                          | 186.00                | 9.17                 | 0        | 0                    |
| Lansing Smith           | 1,961.50                        | 868.00                | 6.79                 | 0        | 0                    |
| Tampa Electric Co.      |                                 |                       |                      |          |                      |
| Hookers Point           | 960.90                          | 0                     | 0                    | 1,903.30 | 1.77                 |
| F.J. Gannon             | 5,350.00                        | 2,466.30              | 6.79                 | 0        | 0                    |

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| Generating plant        | Fuel consumed in 1970   |                                       |                        |
|-------------------------|-------------------------|---------------------------------------|------------------------|
|                         | Gas                     |                                       | Average<br>Btu per kWh |
|                         | Million ft <sup>3</sup> | Cost per 1000 ft <sup>3</sup><br>(\$) |                        |
| Gulf Power Co.          |                         |                                       |                        |
| Pensacola (Crist)       | 18,934.00               | 24.50                                 | 11,140                 |
| River Junction (Scholz) | 0                       | 0                                     | 12,005                 |
| Lansing Smith           | 0                       | 0                                     | 10,011                 |
| Tampa Electric Co.      |                         |                                       |                        |
| Hookers Point           | 0                       | 0                                     | 12,473                 |
| F.J. Gannon             | 0                       | 0                                     | 10,356                 |

Table PU 6. Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1975 (U.S. Department of Energy, Energy Information Administration 1977).

| Generating plant            | Net generation<br>(million kWh) | Fuel consumed in 1975 |                      |          |                      |
|-----------------------------|---------------------------------|-----------------------|----------------------|----------|----------------------|
|                             |                                 | Coal                  |                      | Oil      |                      |
|                             |                                 | 1000 tons             | Cost per ton<br>(\$) | 1000 bbl | Cost per bbl<br>(\$) |
| Florida Power Corp.         |                                 |                       |                      |          |                      |
| Avon Park                   | 9.90                            | 0                     | 0                    | 2.70     | 5.36                 |
| P.L. Bartow                 | 41.00                           | 0                     | 0                    | 95.80    | 12.83                |
| Bayboro                     | 89.90                           | 0                     | 0                    | 209.80   | 12.73                |
| DeBarry                     | 0.70                            | 0                     | 0                    | 1.20     | 14.22                |
| Higgins                     | 18.40                           | 0                     | 0                    | 1.00     | 11.61                |
| Intercession City           | 243.10                          | 0                     | 0                    | 553.80   | 13.58                |
| Port St. Joe                | 1.10                            | 0                     | 0                    | 3.40     | 9.21                 |
| Rio Pinar                   | 0.40                            | 0                     | 0                    | 1.30     | 15.11                |
| Turner                      | 66.80                           | 0                     | 0                    | 153.80   | 15.86                |
| Florida Power and Light Co. |                                 |                       |                      |          |                      |
| Fort Myers                  | 718.00                          | 0                     | 0                    | 1,620.90 | 12.31                |
| Lauderdale                  | 188.50                          | 0                     | 0                    | 262.40   | 11.45                |
| Port Everglades             | 239.90                          | 0                     | 0                    | 409.80   | 12.02                |

Continued

Table PU 6. Continued.

| Generating plant            | Fuel consumed in 1975   |                                       | Average<br>Btu per kWh |
|-----------------------------|-------------------------|---------------------------------------|------------------------|
|                             | Gas                     |                                       |                        |
|                             | Million ft <sup>3</sup> | Cost per 1000 ft <sup>3</sup><br>(\$) |                        |
| Florida Power Corp.         |                         |                                       |                        |
| Avon Park                   | 145.90                  | 159.59                                | 16,709                 |
| P.L. Bartow                 | 0                       | 0                                     | 13,491                 |
| Bayboro                     | 0                       | 0                                     | 13,402                 |
| DeBarry                     | 0                       | 0                                     | 9,767                  |
| Higgins                     | 284.40                  | 160.68                                | 16,291                 |
| Intercession City           | 0                       | 0                                     | 13,105                 |
| Port St. Joe                | 0                       | 0                                     | 17,286                 |
| Rio Pinar                   | 0                       | 0                                     | 18,372                 |
| Turner                      | 0                       | 0                                     | 13,364                 |
| Florida Power and Light Co. |                         |                                       |                        |
| Fort Myers                  | 0                       | 0                                     | 13,112                 |
| Lauderdale                  | 0                       | 0                                     | 16,434                 |
| Port Everglades             | 0                       | 0                                     | 15,674                 |

Continued

Table PU 6 . Concluded .

| Generating plant                  | Net generation<br>(million kWh) | Fuel consumed in 1975 |                      |          |                      |
|-----------------------------------|---------------------------------|-----------------------|----------------------|----------|----------------------|
|                                   |                                 | Coal                  |                      | Oil      |                      |
|                                   |                                 | 1000 tons             | Cost per ton<br>(\$) | 1000 bbl | Cost per bbl<br>(\$) |
| Gulf Power Co.<br>Smith-Turbine A | 13.80                           | 0                     | 0                    | 384.30   | 12.37                |
| Tampa Electric Co.<br>Big Bend    | 159.10                          | 0                     | 0                    | 384.30   | 12.37                |
| F.J. Gannon                       | 13.30                           | 0                     | 0                    | 40.00    | 12.38                |

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| Generating plant                  | Fuel consumed in 1975   |                                       |             |
|-----------------------------------|-------------------------|---------------------------------------|-------------|
|                                   | Gas                     |                                       | Average     |
|                                   | Million ft <sup>3</sup> | Cost per 1000 ft <sup>3</sup><br>(\$) | Btu per kWh |
| Gulf Power Co.<br>Smith-Turbine A | 0                       | 0                                     | 14,363      |
| Tampa Electric Co.<br>Big Bend    | 0                       | 0                                     | 13,992      |
| F.J. Gannon                       | 0                       | 0                                     | 17,387      |



Table PU 7. Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1978 (U.S. Department of Energy, Energy Information Administration 1980).

| Generating plant            | Net generation<br>(million kWh) | Fuel consumed in 1978 |                      |          |                      |
|-----------------------------|---------------------------------|-----------------------|----------------------|----------|----------------------|
|                             |                                 | Coal                  |                      | Oil      |                      |
|                             |                                 | 1000 tons             | Cost per ton<br>(\$) | 1000 bbl | Cost per bbl<br>(\$) |
| Florida Power Corp.         |                                 |                       |                      |          |                      |
| Anclote                     | 3,202.40                        | 0                     | 0                    | 4,967.00 | 12.00                |
| Avon Park                   | 212.60                          | 0                     | 0                    | 48.00    | 12.00                |
| P.L. Bartow                 | 2,819.70                        | 0                     | 0                    | 3,365.00 | 11.00                |
| Higgins                     | 614.30                          | 0                     | 0                    | 1,000.00 | 11.00                |
| Suwanee                     | 778.50                          | 0                     | 0                    | 1,066.00 | 12.00                |
| G.E. Turner                 | 850.50                          | 0                     | 0                    | 499.00   | 12.00                |
| Crystal River               | 4,058.70                        | 1,005.00              | 39.00                | 2,856.00 | 11.00                |
| Florida Power and Light Co. |                                 |                       |                      |          |                      |
| Cape Canaveral              | 4,311.50                        | 0                     | 0                    | 3,358.00 | 11.00                |
| Fort Myers                  | 2,410.90                        | 0                     | 0                    | 3,787.00 | 12.00                |
| Lauderdale                  | 1,132.90                        | 0                     | 0                    | 996.00   | 12.00                |
| Manatee                     | 5,443.50                        | 0                     | 0                    | 8,770.00 | 12.00                |
| Port Everglades             | 6,061.10                        | 0                     | 0                    | 6,616.00 | 12.00                |
| Putnam Comb. Cyle           | 569.90                          | 0                     | 0                    | 1,031.00 | 14.00                |
| Riviera                     | 2,705.50                        | 0                     | 0                    | 1,579.00 | 12.00                |
| Sanford                     | 3,604.10                        | 0                     | 0                    | 5,399.00 | 12.00                |
| Turkey Point                | 4,205.60                        | 0                     | 0                    | 4,341.00 | 12.00                |

Continued

Table PU 7. Continued.

|                         | Net generation<br>(million kWh) | Fuel consumed in 1978 |                 |             |                 |
|-------------------------|---------------------------------|-----------------------|-----------------|-------------|-----------------|
|                         |                                 | Coal                  |                 | Oil         |                 |
|                         |                                 | (1000 tons)           | \$ cost per ton | (1000 bbls) | \$ cost per bbl |
| Gulf Power Co.          |                                 |                       |                 |             |                 |
| Pensacola (Crist)       | 3,716.90                        | 1,491.00              | 31.00           | 145.00      | 12.00           |
| River Junction (Scholz) | 444.60                          | 220.00                | 37.00           |             |                 |
| Lansing Smith           | 1,986.70                        | 901.00                | 32.00           | 8.00        | 16.00           |
| Tampa Electric Co.      |                                 |                       |                 |             |                 |
| Big Bend                | 5,542.90                        | 2,482.00              | 35.00           | 0           | 0               |
| F.J. Gannon             | 4,589.70                        | 1,091.00              | 36.00           | 3,515.00    | 12.00           |
| Hookers Point           | 563.10                          | 0                     | 0               | 1,195.00    | 12.00           |

|                         | Fuel consumed in 1978   |                                  |                        |
|-------------------------|-------------------------|----------------------------------|------------------------|
|                         | Gas                     |                                  | Average<br>Btu per kWh |
|                         | million ft <sup>3</sup> | \$ cost per 1000 ft <sup>3</sup> |                        |
| Gulf Power Co.          |                         |                                  |                        |
| Pensacola (Crist)       | 9,141.00                | 15.00                            | 11,921                 |
| River Junction (Scholz) | 0                       | 0                                | 12,116                 |
| Lansing Smith           | 0                       | 0                                | 10,518                 |
| Tampa Electric Co.      |                         |                                  |                        |
| Big Bend                | 0                       | 0                                | 10,202                 |
| F.J. Gannon             | 0                       | 0                                | 10,259                 |
| Hookers Point           | 0                       | 0                                | 13,425                 |

Continued

Table PU 7. Concluded.

|   | Net generation<br>(million kWh) | Grams used | Cost per gram | Average<br>Btu per kWh |
|---|---------------------------------|------------|---------------|------------------------|
| Florida Power Corp.<br>Crystal River (nuclear)        | 2,592.10                        | 215,291    | 27.00         | 10,510                 |
| Florida Power and Light Co.<br>Turkey Point (nuclear) | 8,273.20                        | 1,515,000  | 10.00         | 11,545                 |
| St. Lucie (nuclear)                                   | 5,000.20                        | 1,030,000  | 12.00         | 11,171                 |

Table PU 8. Sales by generating utilities to final consumers from 1955 to 1977 (U.S. Federal Power Commission ca. 1956a, ca. 1956b, ca. 1961a, ca. 1961b, ca. 1966b, 1971a, 1971b, 1972a, 1972b, 1973a, 1973b, 1974b, ca. 1974c, ca. 1975a, ca. 1975b, ca. 1976a, ca. 1976b; U.S. Department of Energy, Energy Information Administration 1978b, 1979b, 1979c).

| Generating agency           | Sales (1,000 kWh) by class of customer |                           |         |           |
|-----------------------------|--|---------------------------|---------|-----------|
|                             | Residential                            | Commercial and industrial | Other   | Total     |
| 1955                        |  |                           |         |           |
| Florida Power Corp.         | 489,691                                | 810,682                   | 75,774  | 1,376,149 |
| Florida Power and Light Co. | 1,416,204                              | 1,487,113                 | 173,208 | 3,076,930 |
| Gulf Power Co.              | 218,440                                | 406,637                   | 3,259   | 628,337   |
| Tampa Electric Co.          | 346,423                                | 781,712                   | 60,584  | 1,188,731 |
| City of Key West            | 23,164                                 | 31,628                    | 2,706   | 57,500    |
| 1960                        |  |                           |         |           |
| Florida Power Corp.         | 1,115,400                              | 1,389,603                 | 127,222 | 2,632,227 |
| Florida Power and Light Co. | 3,086,018                              | 3,384,276                 | 363,892 | 6,834,186 |
| Gulf Power Co.              | 407,562                                | 733,146                   | 5,504   | 1,146,213 |
| Tampa Electric Co.          | 692,779                                | 1,486,763                 | 120,815 | 2,300,358 |
| City of Key West            | 38,524                                 | 49,652                    | 5,519   | 93,697    |

Continued

Table PU 8. Continued.

| Generating agency           | Sales (1,000 kWh) by class of customer |            |            |           | Total      |
|-----------------------------|--|------------|------------|-----------|------------|
|                             | Residential                            | Commercial | Industrial | Other     |            |
| 1965                        |  |            |            |           |            |
| Florida Power Corp.         | 1,803,163                              | 1,019,706  | 1,190,612  | 206,434   | 4,219,916  |
| Florida Power and Light Co. | 5,539,803                              | 3,793,056  | 1,719,306  | 783,591   | 11,835,756 |
| Gulf Power Co.              | 677,088                                | 406,765    | 743,756    | 9,355     | 1,836,964  |
| Tampa Electric Co.          | 1,079,211                              | 247,046    | 2,381,060  | 196,155   | 3,903,472  |
| City of Key West            | 56,941                                 | 103,617    | 422        | 8,611     | 169,591    |
| 1970                        |  |            |            |           |            |
| Florida Power Corp.         | 3,696,115                              | 1,844,192  | 1,912,379  | 324,444   | 7,777,130  |
| Florida Power and Light Co. | 11,814,172                             | 6,475,639  | 2,044,013  | 1,995,258 | 22,329,082 |
| Gulf Power Co.              | 1,306,042                              | 679,105    | 1,067,629  | 12,842    | 3,065,618  |
| Tampa Electric Co.          | 2,019,513                              | 1,040,568  | 2,772,105  | 341,916   | 6,174,103  |
| City of Key West            | 90,278                                 | 180,715    | 0          | 12,694    | 283,687    |
| 1971                        |  |            |            |           |            |
| Florida Power Corp.         | 4,133,335                              | 2,134,106  | 2,029,686  | 353,638   | 8,650,764  |
| Florida Power and Light Co. | 13,080,408                             | 7,394,967  | 2,236,290  | 2,129,657 | 24,841,322 |
| Gulf Power Co.              | 1,425,040                              | 751,482    | 1,163,748  | 13,364    | 3,353,634  |
| Tampa Electric Co.          | 2,200,274                              | 1,165,324  | 2,717,704  | 397,612   | 6,480,914  |
| City of Key West            | 96,573                                 | 185,434    | 0          | 15,580    | 297,586    |

Continued

Table PU 8. Continued.

| Generating agency           | Sales (1,000 kWh) by class of customer |            |            |           |            |
|-----------------------------|--|------------|------------|-----------|------------|
|                             | Residential                            | Commercial | Industrial | Other     | Total      |
| 1972                        |  |            |            |           |            |
| Florida Power Corp.         | 4,717,235                              | 2,403,398  | 2,196,766  | 376,302   | 9,693,801  |
| Florida Power and Light Co. | 14,652,751                             | 8,389,495  | 2,468,342  | 2,295,132 | 27,805,720 |
| Gulf Power Co.              | 1,601,686                              | 860,022    | 1,308,145  | 12,040    | 3,781,893  |
| Tampa Electric Co.          | 2,415,565                              | 1,335,174  | 2,784,326  | 433,757   | 6,968,822  |
| City of Key West            | 105,537                                | 192,130    | 0          | 18,130    | 315,796    |
| 1973                        |  |            |            |           |            |
| Florida Power Corp.         | 5,793,242                              | 2,836,292  | 2,349,572  | 402,733   | 11,381,839 |
| Florida Power and Light Co. | 16,822,972                             | 10,180,485 | 2,754,968  | 1,358,641 | 31,117,070 |
| Gulf Power Co.              | 1,800,121                              | 946,221    | 1,381,421  | 9,318     | 4,137,082  |
| Tampa Electric Co.          | 2,843,497                              | 1,524,899  | 3,003,586  | 471,159   | 7,843,142  |
| City of Key West            | N.D.                                   | N.D.       | N.D.       | N.D.      | N.D.       |
| 1974                        |  |            |            |           |            |
| Florida Power Corp. n       | 5,285,716                              | 2,935,162  | 2,421,715  | 375,277   | 11,017,870 |
| Florida Power and Light Co. | 16,802,406                             | 11,041,205 | 2,645,724  | 746,990   | 31,236,325 |
| Gulf Power Co.              | 1,834,947                              | 968,814    | 1,325,058  | 12,933    | 4,141,751  |
| Tampa Electric Co.          | 2,827,811                              | 1,639,687  | 3,101,695  | 462,250   | 8,031,443  |
| City of Key West            | 114,354                                | 188,266    | 0          | 11,774    | 314,394    |

Continued

Table PU 8. Concluded.

| Generating agency           | Sales (1,000 kWh) by class of customer |            |            |         |            |
|-----------------------------|--|------------|------------|---------|------------|
|                             | Residential                            | Commercial | Industrial | Other   | Total      |
| 1975                        |  |            |            |         |            |
| Florida Power Corp.         | 5,411,991                              | 3,187,479  | 2,479,378  | 375,754 | 11,454,601 |
| Florida Power and Light Co. | 17,312,500                             | 11,850,752 | 2,534,484  | 809,421 | 32,507,157 |
| Gulf Power Co.              | 1,888,855                              | 1,040,678  | 1,339,523  | 12,950  | 4,282,007  |
| Tampa Electric Co.          | 2,906,472                              | 1,766,970  | 3,296,792  | 499,256 | 8,469,490  |
| City of Key West            | 102,576                                | 189,393    | 0          | 6,905   | 298,873    |
| 1976                        |  |            |            |         |            |
| Florida Power Corp.         | 5,750,889                              | 3,298,036  | 2,690,524  | 429,578 | 12,169,027 |
| Florida Power and Light Co. | 17,625,343                             | 12,117,063 | 2,596,480  | 789,870 | 33,128,756 |
| Gulf Power Co.              | 2,046,577                              | 1,127,674  | 1,435,467  | 12,955  | 4,622,674  |
| Tampa Electric Co.          | 2,910,939                              | 1,803,882  | 3,563,742  | 521,943 | 8,800,505  |
| City of Key West            | 110,406                                | 184,943    | 0          | 7,264   | 302,614    |
| 1977                        |  |            |            |         |            |
| Florida Power Corp.         | 6,373,899                              | 3,526,562  | 2,813,000  | 467,607 | 13,181,069 |
| Florida Power and Light Co. | 19,073,674                             | 12,885,079 | 2,756,289  | 802,570 | 35,519,614 |
| Gulf Power Co.              | 2,156,383                              | 1,206,666  | 1,494,138  | 13,958  | 4,871,145  |
| Tampa Electric Co.          | 3,139,441                              | 1,904,262  | 4,007,816  | 550,877 | 9,602,396  |
| City of Key West            | N.D.                                   | N.D.       | N.D.       | N.D.    | N.D.       |

Table PU 9. Sales by non-generating rural electric cooperatives to final consumers in 1975 and 1978  
(Florida Public Service Commission, Research and Management Studies Department 1979, 1980).

| Rural electric cooperatives | Sales (1,000 kWh) by class of customer |            |            |         |         |
|-----------------------------|--|------------|------------|---------|---------|
|                             | Residential                            | Commercial | Industrial | Other   | Total   |
| <b>1975</b>                 |  |            |            |         |         |
| Central Florida             | 64,196                                 | 8,034      | 2,453      | 1,971   | 76,654  |
| Choctawhatchee              | 77,509                                 | 36,224     | 162        | 2,0044  | 115,899 |
| Escambia River              | 48,912                                 | 5,569      | 4,174      | 4,195   | 62,850  |
| Gulf Coast                  | 45,445                                 | 6,305      | 3,446      | 990     | 56,186  |
| Lee County                  | 370,719                                | 183,972    | 14,605     | 7,636   | 576,932 |
| Peace River                 | 67,617                                 | 10,619     | 5,813      | 12,536  | 96,585  |
| Sumter                      | 206,910                                | 29,567     | 29,151     | 6,053   | 271,681 |
| Talquin                     | 175,214                                | 20,840     | 19,784     | 2,135   | 217,973 |
| West Florida                | 118,062                                | 8,175      | 825        | 3,195   | 130,260 |
| Withlahoochee River         | 293,062                                | 49,559     | 23,640     | 13,375  | 379,636 |
| <b>1978</b>                 |  |            |            |         |         |
| Central Florida             | 0                                      | 12,209     | 2,501      | 85,556  | 100,266 |
| Choctawhatchee              | 95,352                                 | 42,013     | 0          | 311     | 137,676 |
| Escambia River              | 0                                      | 5,847      | 4,661      | 64,037  | 74,545  |
| Gulf Coast                  | 57,021                                 | 6,716      | 5,187      | 1,075   | 69,999  |
| Lee County                  | 529,466                                | 270,651    | 0          | 7,387   | 807,504 |
| Peace River                 | 0                                      | 14,609     | 6,819      | 96,566  | 117,894 |
| Sumter                      | 220,553                                | 32,327     | 45,338     | 57,488  | 355,706 |
| Talquin                     | 0                                      | 25,528     | 32,000     | 225,145 | 282,673 |
| West Florida                | 0                                      | 11,278     | 2,127      | 148,759 | 162,164 |
| Withlahoochee River         | 388,992                                | 63,259     | 53,831     | 45,901  | 551,983 |



Table PU 10. Initial year of operation for steam electric plants serving northwestern and southwestern Florida in 1978 (U.S. Department of Energy, Energy Information Administration 1980).

| Company                     | Plant                    | Initial year of plant operation |
|-----------------------------|--------------------------|---------------------------------|
| Florida Power and Light Co. | Cape Kennedy             | 1965                            |
|                             | Fort Meyers              | 1958                            |
|                             | Lauderdale               | 1926                            |
|                             | Manatee                  | 1976                            |
|                             | Port Everglades          | 1960                            |
|                             | Putnam Combination Cycle | 1977                            |
|                             | Riviera                  | 1946                            |
|                             | St. Lucie (nuclear)      | 1976                            |
|                             | Sanford                  | 1926                            |
|                             | Turkey Point             | 1967                            |
|                             | Turkey Point (nuclear)   | 1972                            |
| Florida Power Corp.         | Anclote                  | 1974                            |
|                             | Avon Park                | 1928                            |
|                             | P.L. Bartow              | 1958                            |
|                             | Crystal River            | 1969                            |
|                             | Crystal River (nuclear)  | 1977                            |
|                             | Higgins                  | 1952                            |
|                             | Suwanee                  | 1953                            |
|                             | G.E. Turner              | 1926                            |
| Gulf Power Co.              | Pensacola (Crist)        | 1945                            |
|                             | River Junction (Scholz)  | 1953                            |
|                             | Lansing Smith            | 1965                            |
| Tampa Electric Co.          | Big Bend                 | 1976                            |
|                             | F.J. Gannon              | 1957                            |
|                             | Hookers Point            | 1965                            |

Table PU 11. Initial year of operation for gas turbine electric plants serving the region in 1977 (U.S. Department of Energy, Energy Information Administration 1980).

| Company                     | Plant             | Initial year of plant operation |
|-----------------------------|-------------------|---------------------------------|
| Florida Power and Light Co. | Fort Myers        | 1974                            |
|                             | Lauderdale        | 1970                            |
|                             | Port Everglades   | 1971                            |
| Florida Power Corp.         | Avon Park         | 1968                            |
|                             | P.L. Bartow       | 1972                            |
|                             | Bayboro           | 1973                            |
|                             | DeBarry           | 1975                            |
|                             | Higgins           | 1969                            |
|                             | Intercession City | 1974                            |
|                             | Port St. Joe      | 1970                            |
|                             | Rio Pinar         | 1970                            |
| G.E. Turner                 | 1970              |                                 |
| Gulf Power Co.              | Smith-Turbine A   | 1971                            |
| Tampa Electric Co.          | Big Bend          | 1969                            |
|                             | F.J. Gannon       | 1969                            |

Table PU 12. Major interconnections for bulk power transactions for the Florida subregion<sup>a</sup> (U.S. Federal Energy Regulatory Commission 1980).

| Generating investor-owned systems |   |
|-----------------------------------|---|
| System                            | Interconnections  |
| Florida Power Corp.               | Georgia Power Co.<br>Tampa Electric Co.<br>Florida Power and Light Co.<br>Gulf Power Co.<br>Southeast Power Administration<br>Orlando Utility Commission<br>Tallahassee Electric Department<br>Gainesville, Alachua County Regional<br>Utilities Board<br>City of Kissimmee<br>Lakeland Department of Electric and<br>Water Utilities<br>Sebring Utilities Commission |
| Florida Power and<br>Light Co.    | Florida Power Corp.<br>Jacksonville Electric Authority<br>Tampa Electric Co.<br>Orlando Utility Commission<br>Vero Beach Municipal Utilities<br>New Smyrna Beach Utility Commission<br>Fort Pierce Utility Authority<br>Lake Worth Utility Authority<br>Homestead Municipal Electric Department   |
| Tampa Electric Co.                | Florida Power Corp.<br>Florida Power and Light Co.<br>Lakeland Department of Electric and<br>Water Utilities  |

Continued

Table PU 12. Continued.

| <u>Generating municipal systems</u>                |  |
|--|--|
| <u>System</u>                                      | <u>Interconnections</u>  |
| Key West Utility Board                             | U.S. Naval Air Station   |
| <hr/>  |  |
| <u>Generating rural electrical cooperatives</u>    |  |
| <u>System</u>                                      | <u>Interconnections</u>  |
| Florida Keys Electric Cooperative Association Inc. | Seminole Electric Cooperative<br>Southeast Power Administration<br>Florida Power Corp. |
| <hr/>  |  |
| <u>Nongenerating rural electric cooperatives</u>   |  |
| <u>System</u>                                      | <u>Power supplier</u>  |
| Central Florida Electrical Cooperative, Inc.       | Seminole Electric Cooperative<br>Southeast Power Administration<br>Florida Power Corp. |
| Lee County Electrical Cooperative, Inc.            | Seminole Electric Cooperative<br>Florida Power Corp.<br>Florida Power and Light Co.    |
| Peace River Electrical Cooperative, Inc.           | Florida Power Corp.<br>Florida Power and Light Co.<br>Tampa Electric Co.               |
| Sumter Valley Electrical Cooperative, Inc.         | Seminole Electric Cooperative<br>Florida Power Corp.                                   |

Continued

Table PU 12. Concluded.

| Nongenerating rural electric cooperatives        |  |
|--|--|
| System   | Power supplier   |
| Talquin Electrical Cooperative, Inc.             | Southeast Power Administration<br>Seminole Electric Cooperative<br>Florida Power Corporation |
| Withlacoochee River Electrical Cooperative, Inc. | Florida Power Corporation<br>Seminole Electric Cooperative                                   |
| Other generating systems                         |  |
| System   | Interconnections   |
| Southeast Power Administration                   | Florida Power Corp.  |

<sup>a</sup> The Florida subregion consists of all Florida counties except Escambia, Santa Rosa, Okaloosa, Holmes, Washington, Jackson, Bay, Calhoun and Gulf.

Table PU 13. Major interconnections for bulk power transactions for the southern subregion<sup>a</sup> (U.S. Federal Energy Regulatory Commission 1980).

| Generating investor-owned systems                |   |
|--|---|
| System   | Interconnections  |
| Gulf Power Co.                                   | Alabama Power Co.<br>Florida Power Corp.<br>Georgia Power Co. |
| Generating rural electrical cooperatives         |   |
| System   | Interconnections  |
| Alabama Electric Cooperative, Inc.               | Alabama Power Co.<br>Southeast Power Administration           |
| Nongenerating rural electrical cooperatives      |   |
| System   | Power supplier  |
| Choctawatchee Electrical Cooperative, Inc.       | Alabama Electric Cooperative, Inc.                            |
| Escambia River Electrical Cooperative, Inc.      | Gulf Power Co.<br>Southeast Power Administration              |
| Gulf Coast Electrical Cooperative, Inc.          | Alabama Electric Cooperative, Inc.                            |
| West Florida Electrical Cooperative, Association | Gulf Power Co.<br>Southeast Power Administration              |

<sup>a</sup> The Southern Subregion consists of Georgia, Alabama, part of Mississippi and Escambia, Santa Rosa, Okaloosa, Holmes, Washington, Jackson, Bay, Calhoun and Gulf Counties in Florida.

TRANSPORTATION (TRANS)

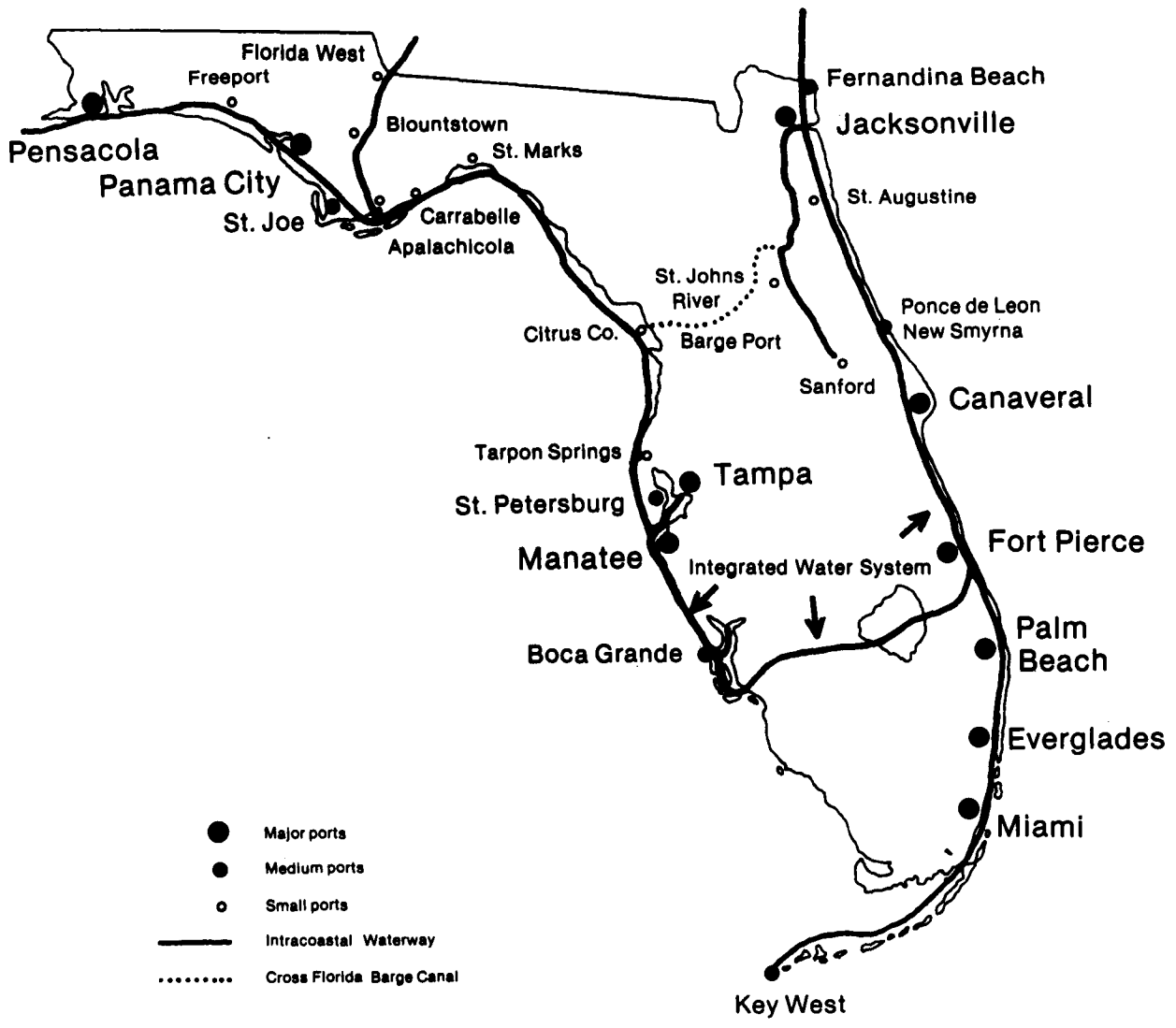


Figure 4. Ports and waterways in Florida (Florida Department of Transportation 1978b).



Table TRANS 1. Identification and classification of ports, including beginning dates of operation under jurisdiction of local port authorities (Florida Department of Transportation 1978b).

| Port and classification | Size (acres) | Date operations began <sup>a</sup> |
|-------------------------|--------------|------------------------------------|
| Major ports             |              |                                    |
| Port of Panama City     | 48           | 1967                               |
| Port of Pensacola       | 82           | 1943                               |
| Medium ports            |              |                                    |
| Port of St. Joe         | N.D.         | N.D.                               |
| Small ports             |              |                                    |
| Port of Apalachicola    | N.D.         | N.D.                               |

<sup>a</sup> Under the port authority.

Table TRANS 2. Port tonnage<sup>a</sup> (short tons<sup>b</sup>) for 1960, 1965, 1970, 1975, 1978 (U.S. Army Corps of Engineers 1962, 1967, 1972, 1977, 1980).

| Port                 | Year      |           |           |           |           |
|----------------------|-----------|-----------|-----------|-----------|-----------|
|                      | 1960      | 1965      | 1970      | 1975      | 1978      |
| Panama City          | 1,067,804 | 1,441,812 | 1,570,326 | 1,615,000 | 1,581,783 |
| Pensacola            | 791,801   | 634,445   | 986,169   | 2,260,000 | 3,064,044 |
| Port St. Joe         | 1,620,083 | 254,805   | 931,762   | 463,000   | 657,295   |
| Port of Apalachicola | N.D.      | N.D.      | N.D.      | N.D.      | 7,030     |

<sup>a</sup> Figures do not reflect local (within the port) movement.

<sup>b</sup> Short ton equals 2,000 lb.

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Table TRANS 3. Florida port accessibility by mode of transportation in 1978 (Florida Department of Transportation 1978b).

| Port                 | Highway | Rail | Air | Waterway | Pipeline |
|----------------------|---------|------|-----|----------|----------|
| Port of Panama City  | X       | X    | X   | X        |          |
| Port of Pensacola    | X       | X    | X   | X        |          |
| Port of St. Joe      | X       | X    |     | X        |          |
| Port of Apalachicola | X       | X    |     |          |          |

Table TRANS 4. Sources of funding for major ports as of 1978 (Florida Department of Transportation 1978b).

| Port                | Under city control | Under county control | Under independent charter | Tariff fees | Leases | Bonds | Grants |
|---------------------|--------------------|----------------------|---------------------------|-------------|--------|-------|--------|
| Port of Panama City |                    |                      | X                         | X           | X      | X     | X      |
| Port of Pensacola   | X                  |                      |                           | X           | X      | X     |        |

|                     | Annual city appropriation | Taxing | Race track pledge |
|---------------------|---------------------------|--------|-------------------|
| Port of Panama City | X                         |        |                   |
| Port of Pensacola   | X                         |        |                   |

Table TRANS 5. Port of Panama City freight traffic (short tons) in 1960 (U.S. Army Corps of Engineers 1962).

| Commodity classification                             | Total     | Foreign |         | Domestic  |           |          |           | Local |
|--|-----------|---------|---------|-----------|-----------|----------|-----------|-------|
|  |           | Imports | Exports | Coastwise |           | Internal |           |       |
|  |           |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| Total  | 1,069,200 | 36,273  | 141,081 | 271,757   | 3,765     | 605,701  | 9,227     | 1,396 |
| 040 Fish and products,<br>fresh                      | 1,229     | 0       | 0       | 0         | 0         | 0        | 0         | 1,229 |
| 049 Shellfish and products                           | 167       | 0       | 0       | 0         | 0         | 0        | 0         | 167   |
| 060 Hides and skins, raw                             | 15        | 0       | 15      | 0         | 0         | 0        | 0         | 0     |
| 094 Shells, unmanufactured                           | 15,632    | 0       | 0       | 0         | 0         | 15,632   | 0         | 0     |
| 110 Animal feeds, nec <sup>a</sup>                   | 1,646     | 0       | 1,646   | 0         | 0         | 0        | 0         | 0     |
| 125 Vegetables and prepared<br>including canned, nec | 1,021     | 1,021   | 0       | 0         | 0         | 0        | 0         | 0     |
| 185 Molasses, sugar products,<br>edible              | 8         | 0       | 8       | 0         | 0         | 0        | 0         | 0     |
| 190 Liquors and wines                                | 32        | 32      | 0       | 0         | 0         | 0        | 0         | 0     |
| 210 Naval stores, gums,<br>and resins                | 32,350    | 0       | 17,989  | 0         | 0         | 14,361   | 0         | 0     |
| 240 Oils, fats, waxes,<br>vegetable, crude           | 2,657     | 0       | 2,657   | 0         | 0         | 0        | 0         | 0     |
| 280 Tobacco, unmanufactured                          | 5         | 0       | 5       | 0         | 0         | 0        | 0         | 0     |
| 413 Lumber and shingles                              | 456       | 411     | 44      | 0         | 0         | 0        | 0         | 0     |
| 416 Plywood, veneers,<br>construction materials      | 126       | 0       | 126     | 0         | 0         | 0        | 0         | 0     |
| 421 Wood manufactures, nec                           | 160       | 0       | 160     | 0         | 0         | 0        | 0         | 0     |
| 457 Paper and manufactures,<br>nec                   | 103,138   | 0       | 99,414  | 0         | 3,724     | 0        | 0         | 0     |

Continued

Table TRANS 5. Continued.

| Commodity classification                                      | Total   | Foreign |         | Domestic  |           |          |           | Local |
|---|---------|---------|---------|-----------|-----------|----------|-----------|-------|
|   |         | Imports | Exports | Coastwise |           | Internal |           |       |
|   |         |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 507 Gasoline  | 552,483 | 0       | 0       | 117,605   | 0         | 432,352  | 2,526     | 0     |
| 510 Gas oil, distillate<br>fuel oil                           | 74,959  | 0       | 0       | 22,732    | 0         | 52,227   | 0         | 0     |
| 512 Jet fuel, all types                                       | 2,608   | 0       | 0       | 0         | 0         | 2,608    | 0         | 0     |
| 513 Kerosene  | 35,093  | 0       | 0       | 8,286     | 0         | 26,807   | 0         | 0     |
| 514 Residual fuel oil   | 94,679  | 0       | 0       | 92,679    | 0         | 0        | 0         | 0     |
| 516 Petroleum asphalt   | 29,095  | 0       | 0       | 21,725    | 0         | 4,644    | 2,726     | 0     |
| 518 Aliphatic naphtha   | 18      | 0       | 18      | 0         | 0         | 0        | 0         | 0     |
| 519 Lubricating oil<br>and greases                            | 42,827  | 0       | 0       | 0         | 0         | 42,818   | 0         | 0     |
| 520 Petroleum products, nec                                   | 9,053   | 0       | 0       | 4,554     | 0         | 4,499    | 0         | 0     |
| 523 Building cement   | 2,080   | 0       | 0       | 0         | 0         | 2,080    | 0         | 0     |
| 526 Stone and manufactures, nec                               | 2,000   | 0       | 0       | 0         | 0         | 2,000    | 0         | 0     |
| 602 Iron and steel scrap                                      | 18,769  | 0       | 0       | 18,769    | 0         | 0        | 0         | 0     |
| 609 Rolled, finished<br>steel mill products                   | 92      | 92      | 0       | 0         | 0         | 0        | 0         | 0     |
| 611 Metal manufactures, parts<br>nec, except SCi <sup>D</sup> | 4       | 0       | 4       | 0         | 0         | 0        | 0         | 0     |
| 632 Copper alloy forms<br>and scrap                           | 113     | 0       | 113     | 0         | 0         | 0        | 0         | 0     |
| 783 Watercraft and parts                                      | 1       | 0       | 0       | 0         | 1         | 0        | 0         | 0     |
| 801 Crude and refined<br>coal tar                             | 2,582   | 0       | 0       | 0         | 0         | 0        | 2,582     | 0     |

Continued

Table TRANS 5. Concluded.

| Commodity classification               | Total  | Foreign |         | Domestic  |           |          |           | Local |
|--|--------|---------|---------|-----------|-----------|----------|-----------|-------|
|  |        | Imports | Exports | Coastwise |           | Internal |           |       |
|  |        |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 805 Other coal tar products            | 1,393  | 0       | 0       | 0         | 0         | 0        | 1,393     | 0     |
| 829 Industrial chemicals, nec          | 29,323 | 21,474  | 0       | 2,176     | 0         | 1,673    | 0         | 0     |
| 846 Chemical specialties, nec          | 18     | 0       | 18      | 0         | 0         | 0        | 0         | 0     |
| 851 Other nitrogenous fertilizers, nec | 13,243 | 13,243  | 0       | 0         | 0         | 0        | 0         | 0     |
| 900 Commodities, nec                   | 40     | 0       | 0       | 0         | 40        | 0        | 0         | 0     |
| 980 Low valued shipments               | 85     | 0       | 85      | 0         | 0         | 0        | 0         | 0     |

<sup>a</sup> Not elsewhere classified.  
<sup>b</sup> Special category items.

Table TRANS 6. Port of Panama City freight traffic (short tons) in 1965 (U.S. Army Corps of Engineers 1967).

| Commodity classification                  | Total     | Foreign |         | Domestic  |           |          |           | Local |
|---|-----------|---------|---------|-----------|-----------|----------|-----------|-------|
|   |           | Imports | Exports | Coastwise |           | Internal |           |       |
|   |           |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| Total                                     | 1,443,218 | 57,380  | 327,800 | 288,318   | 416       | 746,275  | 21,623    | 1,406 |
| 0131 Fresh fruits and tree nuts           | 33        | 0       | 33      | 0         | 0         | 0        | 0         | 0     |
| 0911 Fresh fish, except shellfish         | 1,281     | 0       | 0       | 0         | 0         | 0        | 0         | 1,281 |
| 0912 Shellfish                            | 125       | 0       | 0       | 0         | 0         | 0        | 0         | 125   |
| 0931 Marine shells, unmanufactured        | 4,449     | 0       | 0       | 0         | 0         | 4,449    | 0         | 0     |
| 1121 Bituminous coal and lignite          | 61,128    | 0       | 0       | 0         | 0         | 61,128   | 0         | 0     |
| 1311 Crude petroleum                      | 13,423    | 0       | 0       | 0         | 0         | 3,111    | 10,312    | 0     |
| 2011 Meat, fresh, chilled, frozen         | 6         | 0       | 6       | 0         | 0         | 0        | 0         | 0     |
| 2034 Vegetables and prepared nec          | 340       | 340     | 0       | 0         | 0         | 0        | 0         | 0     |
| 2081 Alcoholic beverages                  | 18        | 12      | 6       | 0         | 0         | 0        | 0         | 0     |
| 2091 Vegetable oil, margarine, shortening | 1,860     | 0       | 1,860   | 0         | 0         | 0        | 0         | 0     |
| 2099 Miscellaneous food products          | 97        | 5       | 92      | 0         | 0         | 0        | 0         | 0     |
| 2211 Basic textile products               | 25        | 0       | 25      | 0         | 0         | 0        | 0         | 0     |

Continued

Table TRANS 6. Continued.

| Commodity classification                  | Total   | Foreign |         | Domestic  |           |          |           | Local |
|---|---------|---------|---------|-----------|-----------|----------|-----------|-------|
|   |         | Imports | Exports | Coastwise |           | Internal |           |       |
|   |         |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 2311 Apparel                              | 112     | 0       | 112     | 0         | 0         | 0        | 0         | 0     |
| 2511 Furniture and fixtures               | 4       | 4       | 0       | 0         | 0         | 0        | 0         | 0     |
| 2611 Pulp                                 | 122,028 | 0       | 122,028 | 0         | 0         | 0        | 0         | 0     |
| 2631 Paper and paperboard                 | 154,803 | 0       | 154,387 | 0         | 416       | 0        | 0         | 0     |
| 2812 Dyes, pigment, tanning materials     | 3,748   | 0       | 0       | 0         | 0         | 0        | 3,748     | 0     |
| 2819 Basic chemicals and products, nec    | 31,173  | 31,167  | 6       | 0         | 0         | 0        | 0         | 0     |
| 2821 Plastic materials                    | 9       | 0       | 9       | 0         | 0         | 0        | 0         | 0     |
| 2861 Gum and wood chemicals               | 16,951  | 0       | 16,951  | 0         | 0         | 0        | 0         | 0     |
| 2871 Nitrogenous fertilizer, manufactured | 9,411   | 9,411   | 0       | 0         | 0         | 0        | 0         | 0     |
| 2911 Gasoline                             | 517,502 | 0       | 0       | 54,977    | 0         | 455,377  | 7,148     | 0     |
| 2912 Jet fuel                             | 7,744   | 0       | 0       | 0         | 0         | 7,744    | 0         | 0     |
| 2913 Kerosene                             | 8,771   | 0       | 0       | 1,888     | 0         | 6,883    | 0         | 0     |
| 2914 Distillate fuel oil                  | 48,852  | 0       | 0       | 12,188    | 0         | 36,664   | 0         | 0     |
| 2915 Residual fuel oil                    | 248,485 | 16,321  | 0       | 217,636   | 0         | 14,528   | 0         | 0     |
| 2916 Lubricating oils and greases         | 148,494 | 0       | 0       | 0         | 0         | 148,494  | 0         | 0     |
| 2921 Liquefied gases                      | 6,985   | 0       | 0       | 0         | 0         | 6,985    | 0         | 0     |

Continued



Table TRANS 6. Continued.

| Commodity classification                        | Total | Foreign |         | Domestic  |           |          |           | Local |
|---|-------|---------|---------|-----------|-----------|----------|-----------|-------|
|   |       | Imports | Exports | Coastwise |           | Internal |           |       |
|   |       |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 3011 Rubber and miscellaneous plastics products | 8     | 0       | 8       | 0         | 0         | 0        | 0         | 0     |
| 3251 Structural clay products                   | 1,600 | 0       | 0       | 1,600     | 0         | 0        | 0         | 0     |
| 3291 Miscellaneous nonmetallic mineral products | 437   | 0       | 26      | 0         | 0         | 411      | 0         | 0     |
| 3315 Iron, steel shapes, except sheet           | 400   | 0       | 0       | 0         | 0         | 0        | 400       | 0     |
| 3316 Iron and steel plates, sheets              | 105   | 0       | 105     | 0         | 0         | 0        | 0         | 0     |
| 3317 Iron and steel pipe and tube               | 120   | 120     | 0       | 0         | 0         | 0        | 0         | 0     |
| 3319 Iron and steel products, nec               | 78    | 0       | 0       | 0         | 0         | 78       | 0         | 0     |
| 3321 Nonferrous metals, nec                     | 8     | 0       | 8       | 0         | 0         | 0        | 0         | 0     |
| 3491 Miscellaneous fabricated metal products    | 8     | 0       | 8       | 0         | 0         | 0        | 0         | 0     |
| 3511 Machinery, except electrical               | 207   | 0       | 7       | 0         | 0         | 200      | 0         | 0     |
| 3611 Electrical machinery and equipment         | 21    | 0       | 21      | 0         | 0         | 0        | 0         | 0     |
| 3711 Motor vehicles, parts, equipment           | 5     | 0       | 5       | 0         | 0         | 0        | 0         | 0     |

Continued

Table TRANS 6. Concluded.

| Commodity classification                 | Total  | Foreign |         | Domestic  |           |          |           | Local |
|--|--------|---------|---------|-----------|-----------|----------|-----------|-------|
|  |        | Imports | Exports | Coastwise |           | Internal |           |       |
|  |        |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 3731 Ships and boats                     | 237    | 0       | 0       | 29        | 0         | 208      | 0         | 0     |
| 3911 Miscellaneous manufactured products | 31     | 0       | 1       | 0         | 0         | 15       | 15        | 0     |
| 4011 Iron and steel scrap                | 31,924 | 0       | 31,924  | 0         | 0         | 0        | 0         | 0     |
| 4012 Nonferrous metal scrap              | 172    | 0       | 172     | 0         | 0         | 0        | 0         | 0     |

<sup>a</sup> Not elsewhere classified.

Table TRANS 7. Port of Panama City freight traffic (short tons) in 1970 (U.S. Army Corps of Engineers 1972).

| Commodity classification                      | Total     | Foreign |         | Domestic  |           |          |           |
|---|-----------|---------|---------|-----------|-----------|----------|-----------|
|   |           | Imports | Exports | Coastwise |           | Internal |           |
|   |           |         |         | Receipts  | Shipments | Receipts | Shipments |
| Total   | 1,634,958 | 275,226 | 502,248 | 21,737    | 5,459     | 765,656  | 64,632    |
| 0119 Oilseeds, nec <sup>a</sup>               | 2,578     | 0       | 2,578   | 0         | 0         | 0        | 0         |
| 0161 Animals and products,<br>nec             | 214       | 0       | 214     | 0         | 0         | 0        | 0         |
| 0911 Fresh fish, except<br>shellfish          | 593       | 0       | 0       | 0         | 0         | 593      | 0         |
| 0912 Shellfish, except<br>prepared            | 101       | 0       | 0       | 0         | 0         | 101      | 0         |
| 0931 Marine shells,<br>unmanufactured         | 19,129    | 0       | 0       | 0         | 0         | 19,129   | 0         |
| 1311 Crude petroleum                          | 84,320    | 79,658  | 0       | 0         | 0         | 4,662    | 0         |
| 1451 Clay                                     | 8,355     | 0       | 8,355   | 0         | 0         | 0        | 0         |
| 1479 Natural fertilizer<br>materials, nec     | 3,000     | 3,000   | 0       | 0         | 0         | 0        | 0         |
| 1499 Nonmetallic minerals,<br>nec             | 10,065    | 0       | 0       | 0         | 0         | 10,065   | 0         |
| 2041 Wheat flour and<br>semolina              | 5         | 0       | 5       | 0         | 0         | 0        | 0         |
| 2091 Vegetable oils, margarine,<br>shortening | 6,662     | 0       | 6,662   | 0         | 0         | 0        | 0         |
| 2099 Miscellaneous food<br>products           | 575       | 0       | 161     | 0         | 0         | 0        | 414       |

Continued

Table TRANS 7. Continued.

| Commodity classification               | Total   | Foreign |         | Domestic  |           |          |           |
|--|---------|---------|---------|-----------|-----------|----------|-----------|
|  |         | Imports | Exports | Coastwise |           | Internal |           |
|  |         |         |         | Receipts  | Shipments | Receipts | Shipments |
| 2611 Pulp                              | 149,583 | 0       | 149,583 | 0         | 0         | 0        | 0         |
| 2621 Standard newsprint paper          | 22,766  | 0       | 0       | 0         | 0         | 0        | 22,766    |
| 2631 Paper and paperboard              | 244,258 | 0       | 206,258 | 0         | 5,459     | 0        | 32,541    |
| 2811 Crude tar, oil, gas products      | 5,128   | 0       | 0       | 0         | 0         | 5,128    | 0         |
| 2813 Alcohols                          | 757     | 0       | 0       | 0         | 0         | 757      | 0         |
| 2817 Benzene and toluene               | 4,206   | 0       | 0       | 0         | 0         | 2,861    | 1,345     |
| 2819 Basic chemicals and products, nec | 36,043  | 25,616  | 237     | 0         | 0         | 10,190   | 0         |
| 2821 Plastic materials                 | 627     | 0       | 0       | 0         | 0         | 0        | 627       |
| 2861 Gum and wood chemicals            | 22,751  | 0       | 20,397  | 0         | 0         | 0        | 2,354     |
| 2911 Gasoline                          | 587,225 | 0       | 0       | 0         | 0         | 583,336  | 1,889     |
| 2912 Jet fuel                          | 2,056   | 0       | 0       | 0         | 0         | 2,056    | 0         |
| 2913 Kerosene                          | 8,505   | 0       | 0       | 0         | 0         | 8,505    | 0         |
| 2914 Distillate fuel oil               | 27,951  | 0       | 0       | 0         | 0         | 27,512   | 439       |
| 2915 Residual fuel oil                 | 189,854 | 166,952 | 0       | 21,737    | 0         | 0        | 1,165     |
| 2916 Lubricating oils and greases      | 52,929  | 0       | 0       | 0         | 0         | 52,929   | 0         |

Continued

Table TRANS 7. Concluded.

| Commodity classification                 | Total   | Foreign |         | Domestic  |           |          |           |
|--|---------|---------|---------|-----------|-----------|----------|-----------|
|  |         | Imports | Exports | Coastwise |           | Internal |           |
|  |         |         |         | Receipts  | Shipments | Receipts | Shipments |
| 2917 Naphtha, petroleum solvents         | 6,128   | 0       | 0       | 0         | 0         | 6,128    | 0         |
| 2920 Coke, petroleum coke                | 12,000  | 0       | 0       | 0         | 0         | 12,000   | 0         |
| 2921 Liquefied gases                     | 15,106  | 0       | 0       | 0         | 0         | 15,106   | 0         |
| 3316 Iron and steel plates, sheets       | 831     | 0       | 0       | 0         | 0         | 831      | 0         |
| 3319 Iron and steel products, nec        | 2,099   | 0       | 0       | 0         | 0         | 1,684    | 415       |
| 3411 Fabricated metal products           | 677     | 0       | 0       | 0         | 0         | 0        | 677       |
| 3511 Machinery, except electrical        | 20      | 0       | 20      | 0         | 0         | 0        | 0         |
| 3711 Motor vehicles, parts, equipment    | 67      | 0       | 2       | 0         | 0         | 65       | 0         |
| 3911 Miscellaneous manufactured products | 2       | 0       | 2       | 0         | 0         | 0        | 0         |
| 4011 Iron and steel scrap                | 107,414 | 0       | 107,414 | 0         | 0         | 0        | 0         |
| 4012 Nonferrous metal scrap              | 88      | 0       | 88      | 0         | 0         | 0        | 0         |
| 4024 Paper waste and scrap               | 272     | 0       | 272     | 0         | 0         | 0        | 0         |
| 4029 Waste and scrap, nec                | 18      | 0       | 0       | 0         | 0         | 18       | 0         |

<sup>a</sup> Not elsewhere classified.

Table TRANS 8. Port of Panama City freight traffic (short tons) in 1975 (U.S. Army Corps of Engineers 1977).

| Commodity classification                   | Total     | Foreign |         | Domestic            |                   |                    | Local |
|--|-----------|---------|---------|---------------------|-------------------|--------------------|-------|
|  |           | Imports | Exports | Coastwise Shipments | Internal Receipts | Internal Shipments |       |
| Total                                      | 1,616,293 | 93,777  | 208,709 | 5,874               | 1,050,617         | 256,683            | 633   |
| 0119 Oilseeds, nec <sup>a</sup>            | 5,873     | 0       | 331     | 0                   | 0                 | 5,542              | 0     |
| 0911 Fresh fish, except shellfish          | 424       | 0       | 0       | 0                   | 424               | 0                  | 0     |
| 0912 Shellfish, except prepared            | 193       | 0       | 0       | 0                   | 193               | 0                  | 0     |
| 0931 Marine shells, unmanufactured         | 13,453    | 0       | 0       | 0                   | 13,453            | 0                  | 0     |
| 1311 Crude petroleum                       | 4,443     | 0       | 0       | 0                   | 4,443             | 0                  | 0     |
| 1451 Clay                                  | 8,470     | 0       | 4,505   | 0                   | 0                 | 3,965              | 0     |
| 2091 Vegetable oils, margarine, shortening | 2,659     | 0       | 2,659   | 0                   | 0                 | 0                  | 0     |
| 2421 Lumber                                | 6,571     | 6,571   | 0       | 0                   | 0                 | 0                  | 0     |
| 2611 Pulp                                  | 154,313   | 0       | 45,370  | 0                   | 0                 | 108,943            | 0     |
| 2621 Standard newsprint paper              | 210       | 0       | 210     | 0                   | 0                 | 0                  | 0     |
| 2631 Paper and paperboard                  | 129,161   | 0       | 73,272  | 1,902               | 0                 | 53,987             | 0     |
| 2811 Crude tar, oil, gas products          | 15,171    | 0       | 0       | 0                   | 6,581             | 8,590              | 0     |
| 2817 Benzene and toluene                   | 12,204    | 0       | 0       | 0                   | 1,873             | 10,331             | 0     |
| 2819 Basic chemicals and products, nec     | 6,094     | 6,094   | 0       | 0                   | 0                 | 0                  | 0     |
| 2821 Plastic materials                     | 649       | 0       | 216     | 0                   | 0                 | 433                | 0     |
| 2861 Gum and wood chemicals                | 1,206     | 0       | 1,206   | 0                   | 0                 | 0                  | 0     |

Continued

Table TRANS 8. Continued.

| Commodity classification              | Total   | Foreign |         | Domestic            |                   |                    | Local |
|---------------------------------------|---------|---------|---------|---------------------|-------------------|--------------------|-------|
|                                       |         | Imports | Exports | Coastwise Shipments | Internal Receipts | Internal Shipments |       |
| 2873 Phosphatic chemical fertilizers  | 4,396   | 0       | 4,496   | 0                   | 0                 | 0                  | 0     |
| 2891 Miscellaneous chemical products  | 1,034   | 0       | 57      | 0                   | 0                 | 977                | 0     |
| 2911 Gasoline                         | 781,224 | 0       | 0       | 3,472               | 734,299           | 43,453             | 0     |
| 2914 Distillate fuel oil              | 131,685 | 0       | 0       | 0                   | 131,052           | 0                  | 633   |
| 2915 Residual fuel oil                | 163,158 | 81,112  | 0       | 0                   | 82,046            | 0                  | 0     |
| 2916 Lubricating oils and greases     | 55,442  | 0       | 0       | 0                   | 54,935            | 507                | 0     |
| 2917 Naphtha, petroleum solvents      | 19,542  | 0       | 0       | 0                   | 8,494             | 11,048             | 0     |
| 2921 Liquefied gases                  | 12,015  | 0       | 0       | 0                   | 12,015            | 0                  | 0     |
| 3315 Iron, steel shapes, except sheet | 348     | 0       | 0       | 0                   | 0                 | 348                | 0     |
| 3411 Fabricated metal products        | 154     | 0       | 0       | 0                   | 0                 | 154                | 0     |

Continued

Table TRANS 8. Concluded.

| Commodity classification                    | Total  | Foreign |         | Domestic            |                   |                    | Local |
|---|--------|---------|---------|---------------------|-------------------|--------------------|-------|
|   |        | Imports | Exports | Coastwise Shipments | Internal Receipts | Internal Shipments |       |
| 3511 Machinery, except electrical           | 1,062  | 0       | 204     | 500                 | 0                 | 358                | 0     |
| 3711 Motor vehicles, parts, equipment       | 364    | 0       | 364     | 0                   | 0                 | 0                  | 0     |
| 3731 Ships and boats                        | 390    | 0       | 0       | 0                   | 390               | 0                  | 0     |
| 3791 Miscellaneous transportation equipment | 40     | 0       | 40      | 0                   | 0                 | 0                  | 0     |
| 3911 Miscellaneous manufactured product     | 1,394  | 0       | 0       | 0                   | 419               | 975                | 0     |
| 4011 Iron and steel scrap                   | 81,911 | 0       | 74,839  | 0                   | 0                 | 7,072              | 0     |
| 4012 Nonferrous metal scrap                 | 207    | 0       | 207     | 0                   | 0                 | 0                  | 0     |
| 4024 Paper waste and scrap                  | 833    | 0       | 833     | 0                   | 0                 | 0                  | 0     |

a Not elsewhere classified.



Table TRANS 9. Port of Panama City freight traffic (short tons) in 1978 (U.S. Army Corps of Engineers 1980).

| Commodity classification           | Total     | Foreign |         | Domestic  |           |           |           | Local |
|------------------------------------|-----------|---------|---------|-----------|-----------|-----------|-----------|-------|
|                                    |           | Imports | Exports | Coastwise |           | Internal  |           |       |
|                                    |           |         |         | Receipts  | Shipments | Receipts  | Shipments |       |
| Total                              | 1,585,372 | 3,640   | 266,702 | 10,531    | 2,075     | 1,030,498 | 268,337   | 3,589 |
| 0119 Oilseeds, nec <sup>a</sup>    | 117,178   | 0       | 74,988  | 0         | 0         | 0         | 42,190    | 0     |
| 0129 Field crops, nec              | 1         | 0       | 1       | 0         | 0         | 0         | 0         | 0     |
| 0161 Animals and products, nec     | 4         | 4       | 0       | 0         | 0         | 0         | 0         | 0     |
| 0841 Crude rubber and allied gums  | 2,858     | 2,858   | 0       | 0         | 0         | 0         | 0         | 0     |
| 0861 Forest products, nec          | 57        | 57      | 0       | 0         | 0         | 0         | 0         | 0     |
| 0911 Fresh fish, except shellfish  | 720       | 0       | 579     | 0         | 0         | 141       | 0         | 0     |
| 0912 Shellfish, except prepared    | 109       | 0       | 0       | 0         | 0         | 109       | 0         | 0     |
| 0931 Marine shells, unmanufactured | 8,151     | 0       | 0       | 0         | 0         | 8,151     | 0         | 0     |
| 1311 Crude petroleum               | 125,618   | 0       | 0       | 0         | 0         | 96,788    | 26,536    | 2,294 |
| 1451 Clay                          | 41,767    | 0       | 7,565   | 0         | 0         | 0         | 34,202    | 0     |
| 1471 Phosphate rock                | 1,200     | 0       | 0       | 1,200     | 0         | 0         | 0         | 0     |
| 1499 Nonmetallic minerals, nec     | 7,000     | 0       | 0       | 0         | 0         | 7,000     | 0         | 0     |
| 2022 Dried milk and cereal         | 459       | 0       | 459     | 0         | 0         | 0         | 0         | 0     |

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Table TRANS 9. Continued.

| Commodity classification          | Total   | Foreign |         | Domestic  |           |          |           | Local |
|-----------------------------------|---------|---------|---------|-----------|-----------|----------|-----------|-------|
|                                   |         | Imports | Exports | Coastwise |           | Internal |           |       |
|                                   |         |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 2042 Prepared animal feeds        | 1,720   | 0       | 1,720   | 0         | 0         | 0        | 0         | 0     |
| 2049 Grain mill products, nec     | 797     | 0       | 0       | 0         | 0         | 0        | 797       | 0     |
| 2081 Alcoholic beverages          | 55      | 48      | 7       | 0         | 0         | 0        | 0         | 0     |
| 2095 Ice                          | 480     | 0       | 0       | 0         | 0         | 0        | 480       | 0     |
| 2099 Miscellaneous food products  | 10,611  | 0       | 14      | 0         | 0         | 0        | 10,597    | 0     |
| 2211 Basic textile products       | 57      | 9       | 48      | 0         | 0         | 0        | 0         | 0     |
| 2311 Apparel                      | 5       | 5       | 0       | 0         | 0         | 0        | 0         | 0     |
| 2415 Pulpwood, log                | 60,209  | 0       | 0       | 0         | 0         | 52,482   | 7,727     | 0     |
| 2416 Wood chips, staves, moldings | 137,425 | 0       | 0       | 0         | 0         | 137,425  | 0         | 0     |
| 2421 Lumber                       | 558     | 382     | 0       | 0         | 0         | 0        | 176       | 0     |
| 2491 Wood manufactures, nec       | 181     | 181     | 0       | 0         | 0         | 0        | 0         | 0     |
| 2611 Pulp                         | 98,204  | 0       | 58,059  | 0         | 0         | 0        | 40,145    | 0     |
| 2631 Paper and paperboard         | 133,977 | 0       | 83,901  | 0         | 0         | 0        | 50,076    | 0     |
| 2691 Pulp and paper products, nec | 582     | 0       | 0       | 0         | 0         | 0        | 582       | 0     |

Continued

Table TRANS 9. Continued.

| Commodity classification                  | Total   | Foreign |         | Domestic              |           |                      |           | Local |
|---|---------|---------|---------|-----------------------|-----------|----------------------|-----------|-------|
|   |         | Imports | Exports | Coastwise<br>Receipts | Shipments | Internal<br>Receipts | Shipments |       |
| 2811 Crude tar, oil,<br>gas products      | 13,665  | 0       | 0       | 0                     | 0         | 8,188                | 5,477     | 0     |
| 2817 Benzene and<br>toluene               | 12,888  | 0       | 0       | 0                     | 0         | 6,155                | 6,773     | 0     |
| 2819 Basic chemicals and<br>products, nec | 12,219  | 0       | 4,098   | 0                     | 0         | 8,121                | 0         | 0     |
| 2821 Plastic materials                    | 4,469   | 0       | 374     | 0                     | 0         | 0                    | 4,095     | 0     |
| 2822 Synthetic rubber                     | 274     | 0       | 18      | 0                     | 0         | 0                    | 256       | 0     |
| 2861 Gum and wood<br>chemicals            | 2,803   | 0       | 2,651   | 0                     | 0         | 0                    | 152       | 0     |
| 2871 Nitrogenous chemical<br>fertilizers  | 2,000   | 0       | 0       | 0                     | 0         | 2,000                | 0         | 0     |
| 2879 Fertilizer and<br>materials, nec     | 8,053   | 0       | 8,053   | 0                     | 0         | 0                    | 0         | 0     |
| 2891 Miscellaneous<br>chemical products   | 792     | 0       | 792     | 0                     | 0         | 0                    | 0         | 0     |
| 2911 Gasoline                             | 435,505 | 0       | 39      | 0                     | 0         | 400,577              | 33,594    | 1,295 |
| 2914 Distillate fuel oil                  | 98,501  | 0       | 0       | 0                     | 0         | 94,501               | 4,000     | 0     |
| 2915 Residual fuel oil                    | 143,183 | 0       | 0       | 4,872                 | 0         | 138,311              | 0         | 0     |
| 2916 Lubricating oils<br>and greases      | 54,282  | 0       | 0       | 4,459                 | 0         | 49,823               | 0         | 0     |

Continued

Table TRANS 9. Concluded.

| Commodity classification                       | Total  | Foreign |         | Domestic  |           |          |           | Local |
|--|--------|---------|---------|-----------|-----------|----------|-----------|-------|
|  |        | Imports | Exports | Coastwise |           | Internal |           |       |
|  |        |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 2917 Naphtha, petroleum solvents               | 5,549  | 0       | 0       | 0         | 0         | 5,549    | 0         | 0     |
| 2921 Liquefied gases                           | 14,081 | 0       | 6       | 0         | 0         | 14,075   | 0         | 0     |
| 3011 Rubber and miscellaneous plastic products | 10     | 0       | 10      | 0         | 0         | 0        | 0         | 0     |
| 3251 Structural clay products                  | 40     | 40      | 0       | 0         | 0         | 0        | 0         | 0     |
| 3315 Iron, steel shapes, except sheet          | 100    | 0       | 0       | 0         | 100       | 0        | 0         | 0     |
| 3316 Iron and steel plates, sheets             | 1      | 0       | 1       | 0         | 0         | 0        | 0         | 0     |
| 3317 Iron and steel pipe and tube              | 64     | 0       | 65      | 0         | 0         | 0        | 0         | 0     |
| 3411 Fabricated metal products                 | 1,986  | 0       | 11      | 0         | 1,975     | 0        | 0         | 0     |
| 3511 Machinery, except electrical              | 1,402  | 56      | 346     | 0         | 0         | 1,000    | 0         | 0     |
| 3611 Electrical machinery and equipment        | 625    | 0       | 4       | 0         | 0         | 142      | 482       | 0     |
| 3711 Motor vehicles, parts, equipment          | 47     | 0       | 47      | 0         | 0         | 0        | 0         | 0     |
| 4011 Iron and steel scrap                      | 22,846 | 0       | 22,846  | 0         | 0         | 0        | 0         | 0     |

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<sup>a</sup> Not elsewhere classified.

Table TRANS 10. Port of St. Joe freight traffic (short tons) in 1960 (U.S. Army Corps of Engineers 1962).

| Commodity classification                      | Total     | Foreign exports | Domestic           |                   |
|---|-----------|-----------------|--------------------|-------------------|
|   |           |                 | Coastwise receipts | Internal receipts |
| Total   | 1,620,083 | 15,518          | 1,594,940          | 9,625             |
| 210 Naval stores, gums and resins             | 4,143     | 4,143           | 0                  | 0                 |
| 413 Lumber and shingles                       | 2,044     | 2,044           | 0                  | 0                 |
| 416 Plywood, veneers                          | 22        | 22              | 0                  | 0                 |
| 445 Paper base stocks, nec <sup>a</sup>       | 3,617     | 3,617           | 0                  | 0                 |
| 457 Paper and manufactures, nec               | 1,912     | 1,912           | 0                  | 0                 |
| 507 Gasoline                                  | 1,142,022 | 0               | 1,142,022          | 0                 |
| 510 Gas oil distillate fuel oil               | 226,249   | 0               | 224,699            | 1,550             |
| 513 Kerosene                                  | 95,051    | 0               | 95,051             | 0                 |
| 514 Residual fuel oil                         | 136,503   | 0               | 133,168            | 3,335             |
| 554 Sand, gravel, crushed rock                | 4,740     | 0               | 0                  | 4,740             |
| 710 Engines, turbines, parts, nec             | 1         | 1               | 0                  | 0                 |
| 742 Industrial machinery, parts, nec          | 58        | 58              | 0                  | 0                 |
| 862 Dynamite                                  | 1,167     | 1,167           | 0                  | 0                 |
| 901 Commodities, nec, except Sci <sup>b</sup> | 1         | 1               | 0                  | 0                 |
| 980 Low-valued shipments                      | 25        | 25              | 0                  | 0                 |
| 999 Department of Defense and Sci             | 2,528     | 2,528           | 0                  | 0                 |

<sup>a</sup> Not elsewhere classified.

<sup>b</sup> Special category items.

Table TRANS 11. Port of St. Joe freight traffic (short tons) in 1965 (U.S. Army Corps of Engineers 1967).

| Commodity classification                    | Total   | Foreign |         | Domestic            |                   |           |
|---|---------|---------|---------|---------------------|-------------------|-----------|
|   |         | Imports | Exports | Coastwise shipments | Internal Receipts | Shipments |
| Total                                       | 254,805 | 57,671  | 65,241  | 113,859             | 17,187            | 847       |
| 0133 Coffee, green                          | 110     | 110     | 0       | 0                   | 0                 | 0         |
| 0931 Marine shells, unmanufactured          | 2,250   | 0       | 0       | 0                   | 2,250             | 0         |
| 1499 Nonmetallic minerals, nec <sup>a</sup> | 22      | 0       | 22      | 0                   | 0                 | 0         |
| 1911 Ordnance and accessories               | 7       | 7       | 0       | 0                   | 0                 | 0         |
| 2022 Dried milk and cream                   | 30      | 30      | 0       | 0                   | 0                 | 0         |
| 2031 Fish and products, nec                 | 1       | 1       | 0       | 0                   | 0                 | 0         |
| 2081 Alcoholic beverages                    | 70      | 70      | 0       | 0                   | 0                 | 0         |
| 2091 Vegetable oils, margarine, shortening  | 1,207   | 0       | 1,207   | 0                   | 0                 | 0         |
| 2099 Miscellaneous food products            | 42      | 42      | 0       | 0                   | 0                 | 0         |
| 2211 Basic textile products                 | 1       | 1       | 0       | 0                   | 0                 | 0         |
| 2491 Wood manufactures, nec                 | 129     | 0       | 129     | 0                   | 0                 | 0         |
| 2511 Furniture and fixtures                 | 21      | 21      | 0       | 0                   | 0                 | 0         |
| 2611 Pulp                                   | 276     | 0       | 476     | 0                   | 0                 | 0         |
| 2631 Paper and paperboard                   | 55,306  | 0       | 54,459  | 0                   | 0                 | 847       |

Continued

Table TRANS 11. Concluded.

| Commodity classification                        | Total   | Foreign |         | Domestic            |                   |           |
|---|---------|---------|---------|---------------------|-------------------|-----------|
|   |         | Imports | Exports | Coastwise shipments | Internal Receipts | Shipments |
| 2819 Basic chemicals and product, nec           | 14,937  | 0       | 0       | 0                   | 14,937            | 0         |
| 2861 Gum and wood chemicals                     | 8,400   | 0       | 8,400   | 0                   | 0                 | 0         |
| 2891 Miscellaneous chemical products            | 1       | 1       | 0       | 0                   | 0                 | 0         |
| 2914 Distillate fuel oil                        | 41,758  | 0       | 0       | 41,758              | 0                 | 0         |
| 2915 Residual fuel oil                          | 129,203 | 57,102  | 0       | 72,101              | 0                 | 0         |
| 3211 Glass and glass products                   | 56      | 56      | 0       | 0                   | 0                 | 0         |
| 3291 Miscellaneous nonmetallic mineral products | 3       | 3       | 0       | 0                   | 0                 | 0         |
| 3315 Iron, steel shapes, except sheet           | 52      | 52      | 0       | 0                   | 0                 | 0         |
| 3317 Iron and steel pipe and tube               | 11      | 11      | 0       | 0                   | 0                 | 0         |
| 3319 Iron and steel products, nec               | 121     | 121     | 0       | 0                   | 0                 | 0         |
| 3324 Aluminum and alloys, unworked              | 1       | 1       | 0       | 0                   | 0                 | 0         |
| 3421 Cutlery, tools and hardware                | 3       | 3       | 0       | 0                   | 0                 | 0         |
| 3491 Miscellaneous fabricated metal products    | 20      | 20      | 0       | 0                   | 0                 | 0         |
| 3611 Electrical machinery and equipment         | 15      | 15      | 0       | 0                   | 0                 | 0         |
| 3711 Motor vehicles, parts, equipment           | 1       | 1       | 0       | 0                   | 0                 | 0         |
| 3911 Miscellaneous manufactured products        | 3       | 3       | 0       | 0                   | 0                 | 0         |
| 4024 Paper waste and scrap                      | 548     | 0       | 548     | 0                   | 0                 | 0         |

<sup>a</sup> Not elsewhere classified.

Table TRANS 12. Port of St. Joe freight traffic (short tons) in 1970 (U.S. Army Corps of Engineers 1972).

| Commodity classification                   | Total   | Foreign |         | Domestic           |                   |           |
|--|---------|---------|---------|--------------------|-------------------|-----------|
|  |         | Imports | Exports | Coastwise receipts | Internal Receipts | Shipments |
| Total                                      | 931,762 | 218,284 | 122,658 | 233,570            | 80,941            | 276,309   |
| 0141 Fresh and frozen vegetables           | 25      | 25      | 0       | 0                  | 0                 | 0         |
| 0861 Forest products, nec <sup>a</sup>     | 2,653   | 5       | 0       | 0                  | 0                 | 2,648     |
| 1311 Crude petroleum                       | 34,225  | 21,725  | 0       | 0                  | 12,500            | 0         |
| 1451 Clay                                  | 4,096   | 0       | 4,096   | 0                  | 0                 | 0         |
| 1479 Natural fertilizer mats, nec          | 22      | 22      | 0       | 0                  | 0                 | 0         |
| 1499 Nonmetallic minerals, nec             | 40      | 40      | 0       | 0                  | 0                 | 0         |
| 2011 Meat, fresh, chilled, frozen          | 16      | 16      | 0       | 0                  | 0                 | 0         |
| 2022 Dried milk and cream                  | 3       | 3       | 0       | 0                  | 0                 | 0         |
| 2042 Prepared animal feeds                 | 634     | 0       | 634     | 0                  | 0                 | 0         |
| 2091 Vegetable oils, margarine, shortening | 883     | 0       | 883     | 0                  | 0                 | 0         |
| 2099 Miscellaneous food products           | 87      | 2       | 85      | 0                  | 0                 | 0         |
| 2414 Timber, posts, poles, piling          | 1,453   | 0       | 0       | 0                  | 0                 | 1,453     |
| 2416 Wood chips, staves, moldings          | 819     | 0       | 0       | 0                  | 0                 | 819       |

Continued



Table TRANS 12. Concluded.

| Commodity classification               | Total   | Foreign |         | Domestic           |                   |           |
|--|---------|---------|---------|--------------------|-------------------|-----------|
|  |         | Imports | Exports | Coastwise receipts | Internal Receipts | Shipments |
| 2611 Pulp                              | 73,868  | 0       | 73,868  | 0                  | 0                 | 0         |
| 2631 Paper and paperboard              | 35,459  | 7       | 35,452  | 0                  | 0                 | 0         |
| 2691 Pulp and paper products, nec      | 3       | 3       | 0       | 0                  | 0                 | 0         |
| 2810 Sodium hydroxide                  | 23,272  | 0       | 0       | 1,207              | 22,065            | 0         |
| 2819 Basic chemicals and products, nec | 16,479  | 0       | 112     | 0                  | 16,367            | 0         |
| 2861 Gum and wood chemicals            | 7,461   | 0       | 7,461   | 0                  | 0                 | 0         |
| 2914 Distillate fuel oil               | 20,747  | 0       | 0       | 20,747             | 0                 | 0         |
| 2915 Residual fuel oil                 | 705,132 | 196,422 | 0       | 211,616            | 25,705            | 271,389   |
| 2991 Petroleum and coal products, nec  | 4,304   | 0       | 0       | 0                  | 4,304             | 0         |
| 3111 Leather and leather products      | 2       | 2       | 0       | 0                  | 0                 | 0         |
| 3281 Cut stone and stone products      | 10      | 10      | 0       | 0                  | 0                 | 0         |
| 3411 Fabricated metal products         | 2       | 2       | 0       | 0                  | 0                 | 0         |
| 4024 Paper waste and scrap             | 67      | 0       | 67      | 0                  | 0                 | 0         |

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<sup>a</sup> Not elsewhere classified.

Table TRANS 13. Port of St. Joe freight traffic (short tons) in 1975 (U.S. Army Corps of Engineers 1977).

| Commodity classification                    | Total   | Foreign |         | Domestic           |                   |           |
|---|---------|---------|---------|--------------------|-------------------|-----------|
|   |         | Imports | Exports | Coastwise receipts | Internal Receipts | Shipments |
| Total                                       | 463,062 | 36      | 19,566  | 278,229            | 22,160            | 143,071   |
| 0133 Coffee                                 | 1       | 0       | 1       | 0                  | 0                 | 0         |
| 0931 Marine shells, un-<br>manufactured     | 1,276   | 0       | 0       | 0                  | 1,276             | 0         |
| 1451 Clay                                   | 394     | 0       | 394     | 0                  | 0                 | 0         |
| 1499 Nonmetallic minerals, nec <sup>a</sup> | 1,500   | 0       | 0       | 0                  | 1,500             | 0         |
| 2011 Meat, fresh, chilled, frozen           | 18      | 18      | 0       | 0                  | 0                 | 0         |
| 2034 Vegetables and prepared, nec           | 13      | 0       | 13      | 0                  | 0                 | 0         |
| 2042 Prepared animal feeds                  | 1       | 0       | 1       | 0                  | 0                 | 0         |
| 2081 Alcoholic beverages                    | 3       | 3       | 0       | 0                  | 0                 | 0         |
| 2491 Wood manufactures, nec                 | 2       | 2       | 0       | 0                  | 0                 | 0         |
| 2611 Pulp                                   | 1,166   | 0       | 1,166   | 0                  | 0                 | 0         |
| 2631 Paper and paperboard                   | 15,249  | 0       | 15,249  | 0                  | 0                 | 0         |
| 2810 Sodium hydroxide                       | 3,335   | 0       | 0       | 0                  | 3,335             | 0         |
| 2819 Basic chemicals and<br>products, nec   | 6       | 0       | 6       | 0                  | 0                 | 0         |
| 2821 Plastic materials                      | 6       | 0       | 6       | 0                  | 0                 | 0         |
| 2861 Gum and wood chemicals                 | 2,661   | 0       | 2,661   | 0                  | 0                 | 0         |
| 2911 Gasoline                               | 5,830   | 0       | 0       | 5,830              | 0                 | 0         |
| 2915 Residual fuel oil                      | 431,519 | 0       | 0       | 272,399            | 16,049            | 143,071   |
| 3321 Nonferrous metals, nec                 | 5       | 0       | 5       | 0                  | 0                 | 0         |
| 3411 Fabricated metal products              | 18      | 0       | 18      | 0                  | 0                 | 0         |
| 3511 Machinery, except electrical           | 25      | 8       | 17      | 0                  | 0                 | 0         |
| 3611 Electrical machinery and<br>equipment  | 1       | 0       | 1       | 0                  | 0                 | 0         |
| 4012 Nonferrous metal scrap                 | 28      | 0       | 28      | 0                  | 0                 | 0         |
| 4112 Commodities, nec                       | 5       | 0       | 0       | 0                  | 0                 | 0         |

<sup>a</sup> Not elsewhere classified.

Table TRANS 14. Port of St. Joe freight traffic (short tons) in 1978 (U.S. Army Corps of Engineers 1980).

| Commodity classification                     | Total   | Foreign |         | Domestic            |          |           |
|--|---------|---------|---------|---------------------|----------|-----------|
|  |         | Imports | Exports | Coastwise shipments | Internal |           |
|  |         |         |         |                     | Receipts | Shipments |
| Total  | 657,295 | 250,278 | 18,304  | 57,616              | 101,266  | 229,831   |
| 0119 Oilseeds, nec <sup>a</sup>              | 66      | 0       | 66      | 0                   | 0        | 0         |
| 0131 Fresh fruits and tree nuts              | 55      | 0       | 55      | 0                   | 0        | 0         |
| 0141 Fresh and frozen vegetables             | 10      | 10      | 0       | 0                   | 0        | 0         |
| 1311 Crude petroleum                         | 471,633 | 235,081 | 0       | 54,670              | 0        | 181,882   |
| 1451 Clay                                    | 51      | 0       | 51      | 0                   | 0        | 0         |
| 2011 Meat, fresh, chilled, frozen            | 42      | 0       | 42      | 0                   | 0        | 0         |
| 2012 Meat and products, nec                  | 20      | 0       | 20      | 0                   | 0        | 0         |
| 2034 Vegetables and prepared, nec            | 33      | 10      | 23      | 0                   | 0        | 0         |
| 2039 Prepared fruit and vegetable juice, nec | 78      | 0       | 78      | 0                   | 0        | 0         |
| 2049 Grain mill products, nec                | 615     | 0       | 615     | 0                   | 0        | 0         |
| 2099 Miscellaneous food products             | 6       | 0       | 6       | 0                   | 0        | 0         |
| 2211 Basic textile products                  | 23      | 0       | 23      | 0                   | 0        | 0         |

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Table TRANS 14. Continued.

| Commodity classification               | Total  | Foreign |         | Domestic            |                   |           |
|--|--------|---------|---------|---------------------|-------------------|-----------|
|  |        | Imports | Exports | Coastwise shipments | Internal Receipts | Shipments |
| 2611 Pulp                              | 3,123  | 0       | 738     | 0                   | 0                 | 2,385     |
| 2631 Paper and paperboard              | 3,653  | 0       | 2,639   | 0                   | 0                 | 1,014     |
| 2810 Sodium hydroxide                  | 14,612 | 0       | 0       | 0                   | 11,577            | 3,035     |
| 2819 Basic chemicals and products, nec | 14,827 | 0       | 9,288   | 0                   | 5,539             | 0         |
| 2821 Plastic materials                 | 68     | 0       | 68      | 0                   | 0                 | 0         |
| 2831 Drugs                             | 3      | 0       | 3       | 0                   | 0                 | 0         |
| 2841 Soap                              | 1      | 0       | 1       | 0                   | 0                 | 0         |
| 2861 Gum and wood chemicals            | 7,455  | 0       | 4,452   | 0                   | 0                 | 3,003     |
| 2871 Nitrogenous chemical fertilizers  | 6,613  | 0       | 0       | 0                   | 6,613             | 0         |
| 2876 Insecticides, disinfectants       | 67     | 0       | 67      | 0                   | 0                 | 0         |
| 2891 Miscellaneous chemical products   | 4      | 0       | 4       | 0                   | 0                 | 0         |
| 2911 Gasoline                          | 10,103 | 0       | 0       | 0                   | 5,188             | 4,915     |
| 2914 Distillate fuel oil               | 35,447 | 0       | 0       | 0                   | 14,502            | 20,945    |
| 2915 Residual fuel oil                 | 79,573 | 15,177  | 0       | 2,946               | 48,798            | 12,652    |
| 2918 Asphalt, tar, and pitches         | 9,049  | 0       | 0       | 0                   | 9,049             | 0         |

Continued

Table TRANS 14. Concluded.

| Commodity classification                | Total | Foreign |         | Domestic            |                   |           |
|---|-------|---------|---------|---------------------|-------------------|-----------|
|   |       | Imports | Exports | Coastwise shipments | Internal Receipts | Shipments |
| 3317 Iron and steel pipe and tube       | 1     | 0       | 1       | 0                   | 0                 | 0         |
| 3411 Fabricated metal products          | 40    | 0       | 40      | 0                   | 0                 | 0         |
| 3511 Machinery, except electrical       | 11    | 0       | 11      | 0                   | 0                 | 0         |
| 3611 Electrical machinery and equipment | 7     | 0       | 7       | 0                   | 0                 | 0         |
| 3711 Motor vehicles, parts, equipment   | 4     | 0       | 4       | 0                   | 0                 | 0         |
| 3811 Instrument, photo, optical goods   | 2     | 0       | 2       | 0                   | 0                 | 0         |

<sup>a</sup> Not elsewhere classified.

Table TRANS 15. Port of Pensacola freight traffic (short tons) in 1960 (U.S. Army Corps of Engineers 1962).

| Commodity classification                         | Total   | Foreign |         | Domestic            |                   |                    |            |       |
|--|---------|---------|---------|---------------------|-------------------|--------------------|------------|-------|
|  |         | Imports | Exports | Coastwise shipments | Internal Receipts | Internal Shipments | Intra port | Local |
| Total  | 792,443 | 75,410  | 64,716  | 14,560              | 572,920           | 34,114             | 30,081     | 642   |
| 040 Fish and products, fresh                     | 640     | 0       | 0       | 0                   | 0                 | 0                  | 0          | 640   |
| 049 Shellfish and products                       | 2       | 0       | 0       | 0                   | 0                 | 0                  | 0          | 2     |
| 065 Leather and manufactures                     | 1       | 0       | 1       | 0                   | 0                 | 0                  | 0          | 0     |
| 094 Shells, unmanufactured                       | 7,452   | 0       | 0       | 0                   | 7,452             | 0                  | 0          | 0     |
| 095 Animal products, inedible, nec               | 17      | 0       | 17      | 0                   | 0                 | 0                  | 0          | 0     |
| 101 Rice   | 10      | 0       | 10      | 0                   | 0                 | 0                  | 0          | 0     |
| 109 Flour, grain prepared, nec                   | 3,971   | 0       | 3,971   | 0                   | 0                 | 0                  | 0          | 0     |
| 110 Animal feeds, nec                            | 9,134   | 0       | 9,134   | 0                   | 0                 | 0                  | 0          | 0     |
| 125 Vegetable and prepared including canned, nec | 2,287   | 2,287   | 0       | 0                   | 0                 | 0                  | 0          | 0     |
| 127 Vegetables and prepared, nec                 | 77      | 0       | 77      | 0                   | 0                 | 0                  | 0          | 0     |
| 185 Molasses, sugar products, edible             | 121     | 0       | 121     | 0                   | 0                 | 0                  | 0          | 0     |
| 190 Liquors and wines                            | 22      | 22      | 0       | 0                   | 0                 | 0                  | 0          | 0     |
| 195 Beverages and syrups, nec                    | 34      | 0       | 34      | 0                   | 0                 | 0                  | 0          | 0     |
| 201 Synthetic rubbers                            | 6       | 0       | 6       | 0                   | 0                 | 0                  | 0          | 0     |

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Table TRANS 15. Continued.

| Commodity classification                | Total  | Foreign |         | Domestic            |                   |                    |            |       |
|---|--------|---------|---------|---------------------|-------------------|--------------------|------------|-------|
|   |        | Imports | Exports | Coastwise shipments | Internal Receipts | Internal Shipments | Intra port | Local |
| 203 Reclaimed rubber and scrap          | 11     | 0       | 11      | 0                   | 0                 | 0                  | 0          | 0     |
| 205 Rubber tires and inner tubes        | 2      | 0       | 2       | 0                   | 0                 | 0                  | 0          | 0     |
| 207 Rubber manufactures, nec            | 15     | 0       | 15      | 0                   | 0                 | 0                  | 0          | 0     |
| 210 Naval stores, gums, and resins      | 1,116  | 0       | 1,107   | 9                   | 0                 | 0                  | 0          | 0     |
| 240 Oils, fats, waxes, vegetable, crude | 149    | 0       | 149     | 0                   | 0                 | 0                  | 0          | 0     |
| 280 Tobacco, unmanufactures             | 4      | 0       | 4       | 0                   | 0                 | 0                  | 0          | 0     |
| 310 Cotton semi-manufactures            | 275    | 0       | 275     | 0                   | 0                 | 0                  | 0          | 0     |
| 320 Cotton manufactures                 | 47     | 0       | 47      | 0                   | 0                 | 0                  | 0          | 0     |
| 335 Vegetable fiber manufactures, nec   | 27     | 0       | 27      | 0                   | 0                 | 0                  | 0          | 0     |
| 381 Man-made fibers and manufactures    | 625    | 0       | 625     | 0                   | 0                 | 0                  | 0          | 0     |
| 390 Textile products, nec               | 79     | 0       | 79      | 0                   | 0                 | 0                  | 0          | 0     |
| 400 Logs                                | 16,480 | 16,109  | 371     | 0                   | 0                 | 0                  | 0          | 0     |
| 401 Rafted logs                         | 30,081 | 0       | 0       | 0                   | 0                 | 0                  | 30,081     | 0     |
| 405 Posts, poles, and piling            | 11,844 | 0       | 5,581   | 6,263               | 0                 | 0                  | 0          | 0     |
| 408 Wood, nonmanufactured, nec          | 649    | 0       | 0       | 649                 | 0                 | 0                  | 0          | 0     |
| 413 Lumber and shingles                 | 13,826 | 5,289   | 6,634   | 1,903               | 0                 | 0                  | 0          | 0     |
| 416 Plywood, veneers, materials         | 409    | 0       | 152     | 257                 | 0                 | 0                  | 0          | 0     |

Continued

Table TRANS 15. Continued.

| Commodity classification         | Total   | Foreign |         | Domestic            |                   |           | Intra port | Local |
|----------------------------------|---------|---------|---------|---------------------|-------------------|-----------|------------|-------|
|                                  |         | Imports | Exports | Coastwise shipments | Internal Receipts | Shipments |            |       |
| 417 Railroad ties                | 2,146   | 0       | 1,863   | 283                 | 0                 | 0         | 0          | 0     |
| 421 Wood manufactures, nec       | 1,006   | 0       | 165     | 841                 | 0                 | 0         | 0          | 0     |
| 450 Standard newsprint paper     | 165     | 0       | 165     | 0                   | 0                 | 0         | 0          | 0     |
| 457 Paper and manufactures, nec  | 12,404  | 0       | 8,157   | 4,247               | 0                 | 0         | 0          | 0     |
| 507 Gasoline                     | 252,209 | 0       | 0       | 0                   | 252,209           | 0         | 0          | 0     |
| 510 Gas oil, distillate fuel oil | 45,683  | 0       | 0       | 0                   | 45,683            | 0         | 0          | 0     |
| 511 Petroleum, crude             | 10,408  | 0       | 9       | 0                   | 10,399            | 0         | 0          | 0     |
| 512 Jet fuel, all types          | 45,348  | 0       | 0       | 0                   | 45,348            | 0         | 0          | 0     |
| 513 Kerosene                     | 8,004   | 0       | 0       | 0                   | 8,004             | 0         | 0          | 0     |
| 514 Residual fuel oil            | 37,662  | 0       | 0       | 0                   | 37,662            | 0         | 0          | 0     |
| 518 Aliphatic naphtha            | 7,444   | 0       | 0       | 0                   | 7,444             | 0         | 0          | 0     |
| 519 Lubricating oils and greases | 17      | 0       | 17      | 0                   | 0                 | 0         | 0          | 0     |
| 520 Petroleum products, nec      | 14,017  | 0       | 196     | 0                   | 13,821            | 0         | 0          | 0     |
| 523 Building cement              | 44,919  | 1,415   | 0       | 0                   | 43,504            | 0         | 0          | 0     |
| 526 Stone and manufactures, nec  | 91,495  | 0       | 0       | 0                   | 91,195            | 300       | 0          | 0     |
| 530 Glass and glass products     | 171     | 0       | 171     | 0                   | 0                 | 0         | 0          | 0     |
| 540 Clays and earths             | 443     | 0       | 443     | 0                   | 0                 | 0         | 0          | 0     |
| 543 Brick and tile               | 194     | 0       | 194     | 0                   | 0                 | 0         | 0          | 0     |
| 549 Sulphur, liquid              | 2,464   | 0       | 0       | 0                   | 2,464             | 0         | 0          | 0     |
| 550 Sulphur, dry                 | 2,464   | 0       | 0       | 0                   | 2,464             | 0         | 0          | 0     |

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Table TRANS 15. Continued.

| Commodity classification                      | Total  | Foreign |         | Domestic            |                   |                    |            |       |
|---|--------|---------|---------|---------------------|-------------------|--------------------|------------|-------|
|   |        | Imports | Exports | Coastwise shipments | Internal Receipts | Internal Shipments | Intra port | Local |
| 551 Limestone, crushed                        | 600    | 0       | 0       | 0                   | 600               | 0                  | 0          | 0     |
| 554 Sand, gravel, crushed rock                | 2,279  | 0       | 300     | 0                   | 1,979             | 0                  | 0          | 0     |
| 555 Nonmetallic minerals, manufactures, nec   | 169    | 0       | 169     | 0                   | 0                 | 0                  | 0          | 0     |
| 602 Iron and steel scrap                      | 16,914 | 0       | 16,914  | 0                   | 0                 | 0                  | 0          | 0     |
| 605 Ferrous castings and forgings             | 29     | 0       | 29      | 0                   | 0                 | 0                  | 0          | 0     |
| 606 Tools and basic hardware                  | 24     | 0       | 24      | 0                   | 0                 | 0                  | 0          | 0     |
| 607 Kitchen and hospital utensils             | 45     | 0       | 45      | 0                   | 0                 | 0                  | 0          | 0     |
| 608 Iron and steel pipe                       | 1,381  | 0       | 1,381   | 0                   | 0                 | 0                  | 0          | 0     |
| 609 Rolled, finished steel mill products      | 1,000  | 0       | 1,000   | 0                   | 0                 | 0                  | 0          | 0     |
| 611 Metal manufactures, parts, nec except SCi | 70     | 0       | 70      | 0                   | 0                 | 0                  | 0          | 0     |
| 700 Electrical machinery                      | 22     | 1       | 0       | 21                  | 0                 | 0                  | 0          | 0     |
| 701 Electrical machinery except SCi           | 84     | 0       | 84      | 0                   | 0                 | 0                  | 0          | 0     |
| 722 Construction, mining machinery, parts     | 116    | 0       | 16      | 0                   | 100               | 0                  | 0          | 0     |
| 740 Textile, shoe machinery, parts            | 2      | 0       | 2       | 0                   | 0                 | 0                  | 0          | 0     |

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Table TRANS 15. Continued.

| Commodity classification                  | Total  | Foreign |         | Domestic            |                   |           | Intra port | Local |
|---|--------|---------|---------|---------------------|-------------------|-----------|------------|-------|
|   |        | Imports | Exports | Coastwise shipments | Internal Receipts | Shipments |            |       |
| 742 Industrial machinery, parts, nec      | 144    | 0       | 144     | 0                   | 0                 | 0         | 0          | 0     |
| 780 Motor vehicles                        | 4,265  | 4,261   | 0       | 4                   | 0                 | 0         | 0          | 0     |
| 781 Motor vehicles except SCi             | 67     | 0       | 67      | 0                   | 0                 | 0         | 0          | 0     |
| 782 Motor vehicle parts                   | 85     | 85      | 0       | 0                   | 0                 | 0         | 0          | 0     |
| 783 Watercraft and parts                  | 1      | 0       | 0       | 1                   | 0                 | 0         | 0          | 0     |
| 787 Motor vehicles parts except SCi       | 157    | 0       | 157     | 0                   | 0                 | 0         | 0          | 0     |
| 790 Aircraft and parts                    | 10     | 0       | 0       | 0                   | 10                | 0         | 0          | 0     |
| 796 Vehicles and parts, nec               | 1      | 0       | 1       | 0                   | 0                 | 0         | 0          | 0     |
| 805 Other coal tar products               | 8,455  | 5,873   | 0       | 0                   | 2,582             | 0         | 0          | 0     |
| 806 Other coal tar products except SCi    | 5      | 0       | 5       | 0                   | 0                 | 0         | 0          | 0     |
| 810 Medicines and preparations            | 12     | 0       | 12      | 0                   | 0                 | 0         | 0          | 0     |
| 826 Alcohols                              | 33,814 | 0       | 0       | 0                   | 0                 | 33,814    | 0          | 0     |
| 828 Other industrial chemicals except SCi | 31     | 0       | 31      | 0                   | 0                 | 0         | 0          | 0     |
| 829 Industrial chemicals, nec             | 60     | 0       | 0       | 60                  | 0                 | 0         | 0          | 0     |
| 846 Chemical specialties, nec             | 72     | 0       | 72      | 0                   | 0                 | 0         | 0          | 0     |

Continued

Table TRANS 15. Concluded.

| Commodity classification                   | Total  | Foreign |         | Domestic            |                   |                    |            |       |
|--|--------|---------|---------|---------------------|-------------------|--------------------|------------|-------|
|  |        | Imports | Exports | Coastwise shipments | Internal Receipts | Internal Shipments | Intra port | Local |
| 848 Pigments, paints, varnishes            | 212    | 0       | 212     | 0                   | 0                 | 0                  | 0          | 0     |
| 851 Other nitrogenous fertilizer materials | 37,955 | 36,766  | 1,189   | 0                   | 0                 | 0                  | 0          | 0     |
| 854 Superphosphate                         | 2,744  | 0       | 2,744   | 0                   | 0                 | 0                  | 0          | 0     |
| 855 Potash fertilizer materials            | 3,300  | 3,300   | 0       | 0                   | 0                 | 0                  | 0          | 0     |
| 865 Soap and toilet preparations           | 3      | 0       | 3       | 0                   | 0                 | 0                  | 0          | 0     |
| 900 Commodities, nec                       | 23     | 1       | 0       | 22                  | 0                 | 0                  | 0          | 0     |
| 901 Commodities, nec except SCi            | 58     | 0       | 58      | 0                   | 0                 | 0                  | 0          | 0     |
| 920 U.S. articles returned                 | 1      | 1       | 0       | 0                   | 0                 | 0                  | 0          | 0     |
| 980 Low-valued shipments                   | 134    | 0       | 134     | 0                   | 0                 | 0                  | 0          | 0     |
| 999 Department of Defense and SCi          | 23     | 0       | 23      | 0                   | 0                 | 0                  | 0          | 0     |

<sup>a</sup> Not elsewhere classified.

<sup>b</sup> Special category items.

Table TRANS 16. Port of Pensacola freight traffic (short tons) in 1965 (U.S. Army Corps of Engineers 1967).

| Commodity classification                    | Total   | Foreign |         | Domestic  |           |          |           | Local  |
|---|---------|---------|---------|-----------|-----------|----------|-----------|--------|
|   |         | Imports | Exports | Coastwide |           | Internal |           |        |
|   |         |         |         | Receipts  | Shipments | Receipts | Shipments |        |
| Total                                       | 651,265 | 96,879  | 92,282  | 10,022    | 2,744     | 390,733  | 41,785    | 16,820 |
| 0102 Barley and rye                         | 408     | 0       | 408     | 0         | 0         | 0        | 0         | 0      |
| 0131 Fresh fruits and tree nuts             | 32      | 0       | 32      | 0         | 0         | 0        | 0         | 0      |
| 0161 Animals and products, nec <sup>a</sup> | 1       | 1       | 0       | 0         | 0         | 0        | 0         | 0      |
| 0841 Crude rubber and allied gums           | 12      | 12      | 0       | 0         | 0         | 0        | 0         | 0      |
| 0861 Forest products, nec                   | 11      | 11      | 0       | 0         | 0         | 0        | 0         | 0      |
| 0911 Fresh fish, except shellfish           | 881     | 0       | 0       | 0         | 0         | 0        | 0         | 881    |
| 0931 Marine shells, unmanufactured          | 43,100  | 0       | 0       | 0         | 0         | 43,100   | 0         | 0      |
| 1121 Bituminous coal and lignite            | 8,457   | 0       | 0       | 0         | 0         | 8,457    | 0         | 0      |
| 1311 Crude petroleum                        | 1,554   | 0       | 0       | 0         | 0         | 1,554    | 0         | 0      |
| 1442 Sand and gravel                        | 579     | 0       | 2       | 0         | 0         | 577      | 0         | 0      |
| 1479 Natural fertilizer materials, nec      | 3,337   | 3,337   | 0       | 0         | 0         | 0        | 0         | 0      |
| 1911 Ordnance and accessories               | 2       | 2       | 0       | 0         | 0         | 0        | 0         | 0      |

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Table TRANS 16. Continued.

| Commodity classification                  | Total  | Foreign |         | Domestic  |           |          |           |       |
|---|--------|---------|---------|-----------|-----------|----------|-----------|-------|
|   |        | Imports | Exports | Coastwise |           | Internal |           | Local |
|   |        |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 2491 Wood manufactures, nec               | 267    | 0       | 146     | 0         | 121       | 0        | 0         | 0     |
| 2511 Furniture and fixtures               | 1      | 1       | 0       | 0         | 0         | 0        | 0         | 0     |
| 2621 Standard newsprint paper             | 602    | 601     | 0       | 0         | 0         | 0        | 0         | 0     |
| 2631 Paper and paperboard                 | 42,394 | 42,394  | 0       | 0         | 0         | 0        | 0         | 0     |
| 2691 Pulp and paper products, nec         | 1,225  | 0       | 23      | 0         | 1,202     | 0        | 0         | 0     |
| 2811 Crude tar, oil, gas products         | 8,730  | 8,375   | 0       | 0         | 0         | 355      | 0         | 0     |
| 2813 Alcohols                             | 31,188 | 0       | 1,744   | 0         | 0         | 1,326    | 28,118    | 0     |
| 2819 Basic chemicals and products, nec    | 16,504 | 16,487  | 17      | 0         | 0         | 0        | 0         | 0     |
| 2821 Plastic materials                    | 1,172  | 0       | 1,172   | 0         | 0         | 0        | 0         | 0     |
| 2823 Synthetic fibers                     | 26     | 0       | 26      | 0         | 0         | 0        | 0         | 0     |
| 2841 Soap                                 | 17     | 1       | 16      | 0         | 0         | 0        | 0         | 0     |
| 2861 Gum and wood chemicals               | 13,880 | 0       | 5,794   | 0         | 0         | 0        | 8,086     | 0     |
| 2871 Nitrogenous fertilizer, manufactured | 31,457 | 27,959  | 2,073   | 0         | 0         | 0        | 1,425     | 0     |

Continued

Table TRANS 16. Continued.

| Commodity classification                      | Total  | Foreign |         | Domestic  |           |          |           | Local  |
|---|--------|---------|---------|-----------|-----------|----------|-----------|--------|
|   |        | Imports | Exports | Coastwise |           | Internal |           |        |
|   |        |         |         | Receipts  | Shipments | Receipts | Shipments |        |
| 2011 Meat, fresh, chilled,<br>frozen          | 53     | 0       | 53      | 0         | 0         | 0        | 0         | 0      |
| 2012 Meat and products, nec                   | 41     | 41      | 0       | 0         | 0         | 0        | 0         | 0      |
| 2022 Dried milk and cream                     | 2,519  | 0       | 2,519   | 0         | 0         | 0        | 0         | 0      |
| 2034 Vegetables and<br>prepared, nec          | 12,844 | 12,844  | 0       | 0         | 0         | 0        | 0         | 0      |
| 2042 Prepared animal feeds                    | 3,960  | 3,960   | 0       | 0         | 0         | 0        | 0         | 0      |
| 2049 Grain mill products, nec                 | 9,355  | 0       | 9,355   | 0         | 0         | 0        | 0         | 0      |
| 2081 Alcoholic beverages                      | 41     | 37      | 4       | 0         | 0         | 0        | 0         | 0      |
| 2082 Beverages and syrups, nec                | 1,316  | 0       | 1,316   | 0         | 0         | 0        | 0         | 0      |
| 2091 Vegetable oils, margarine,<br>shortening | 20     | 0       | 20      | 0         | 0         | 0        | 0         | 0      |
| 2095 Ice                                      | 245    | 0       | 0       | 0         | 0         | 0        | 0         | 245    |
| 2099 Miscellaneous food<br>products           | 1      | 0       | 1       | 0         | 0         | 0        | 0         | 0      |
| 2211 Basic textile products                   | 4,484  | 4       | 4,480   | 0         | 0         | 0        | 0         | 0      |
| 2411 Logs                                     | 15,778 | 11,597  | 645     | 0         | 0         | 0        | 0         | 3,536  |
| 2412 Rafted logs                              | 12,158 | 0       | 0       | 0         | 0         | 0        | 0         | 12,158 |
| 2414 Timber, posts, poles,<br>piling          | 7,973  | 0       | 7,201   | 0         | 772       | 0        | 0         | 0      |
| 2421 Lumber                                   | 7,983  | 4,315   | 3,041   | 0         | 627       | 0        | 0         | 0      |

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Table TRANS 16. Continued.

| Commodity classification                        | Total   | Foreign |         | Domestic  |           |          |           | Local |
|---|---------|---------|---------|-----------|-----------|----------|-----------|-------|
|   |         | Imports | Exports | Coastwise |           | Internal |           |       |
|   |         |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 2879 Fertilizer and materials, nec              | 1,900   | 0       | 0       | 0         | 0         | 0        | 1,900     | 0     |
| 2891 Miscellaneous chemical products            | 390     | 0       | 0       | 0         | 0         | 390      | 0         | 0     |
| 2911 Gasoline                                   | 258,910 | 0       | 0       | 0         | 0         | 258,081  | 829       | 0     |
| 2912 Jet fuel                                   | 8,868   | 0       | 0       | 0         | 0         | 8,868    | 0         | 0     |
| 2913 Kerosene                                   | 9,586   | 0       | 0       | 0         | 0         | 9,586    | 0         | 0     |
| 2914 Distillate fuel oil                        | 26,578  | 0       | 0       | 0         | 0         | 26,578   | 0         | 0     |
| 2915 Residual fuel oil                          | 14,949  | 0       | 0       | 9,276     | 0         | 5,553    | 120       | 0     |
| 2917 Naphtha petroleum solvents                 | 8,219   | 0       | 0       | 0         | 0         | 8,219    | 0         | 0     |
| 2921 Liquefied gases                            | 6,678   | 0       | 0       | 0         | 0         | 5,792    | 886       | 0     |
| 2991 Petroleum and coal products, nec           | 21      | 0       | 21      | 0         | 0         | 0        | 0         | 0     |
| 3011 Rubber and miscellaneous plastics products | 72      | 29      | 43      | 0         | 0         | 0        | 0         | 0     |
| 3111 Leather and leather products               | 3       | 3       | 0       | 0         | 0         | 0        | 0         | 0     |
| 3211 Glass and glass products                   | 43      | 43      | 0       | 0         | 0         | 0        | 0         | 0     |
| 3241 Building cement                            | 6,576   | 0       | 0       | 0         | 0         | 6,576    | 0         | 0     |

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Table TRANS 16. Continued.

| Commodity classification                        | Total | Foreign |         | Domestic  |           |          |           | Local |
|---|-------|---------|---------|-----------|-----------|----------|-----------|-------|
|   |       | Imports | Exports | Coastwise |           | Internal |           |       |
|   |       |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 3251 Structural clay products                   | 345   | 21      | 0       | 0         | 0         | 324      | 0         | 0     |
| 3291 Miscellaneous nonmetallic mineral products | 7,489 | 1       | 2,391   | 0         | 0         | 5,097    | 0         | 0     |
| 3315 Iron, steel shapes, except sheet           | 870   | 859     | 0       | 0         | 11        | 0        | 0         | 0     |
| 3316 Iron and steel plates, sheets              | 6,121 | 6,105   | 16      | 0         | 0         | 0        | 0         | 0     |
| 3319 Iron and steel products, nec               | 34    | 34      | 0       | 0         | 0         | 0        | 0         | 0     |
| 3324 Aluminum and alloys, unworked              | 6     | 6       | 0       | 0         | 0         | 0        | 0         | 0     |
| 3411 Metal containers                           | 8     | 7       | 1       | 0         | 0         | 0        | 0         | 0     |
| 3421 Cutlery, tools, and hardware               | 3     | 1       | 2       | 0         | 0         | 0        | 0         | 0     |
| 3431 Plumbing fixtures, heating equipment       | 47    | 0       | 47      | 0         | 0         | 0        | 0         | 0     |
| 3491 Miscellaneous fabricated metal products    | 156   | 10      | 135     | 0         | 11        | 0        | 0         | 0     |
| 3511 Machinery, except electrical               | 1,301 | 90      | 311     | 725       | 0         | 0        | 175       | 0     |

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Table TRANS 16. Continued.

| Commodity classification                    | Total | Foreign |         | Domestic  |           |          |           | Local |
|---|-------|---------|---------|-----------|-----------|----------|-----------|-------|
|   |       | Imports | Exports | Coastwise |           | Internal |           |       |
|   |       |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 3611 Machinery, except electrical           | 1,301 | 90      | 311     | 725       | 0         | 0        | 175       | 0     |
| 3711 Motor vehicles, parts, equipment       | 67    | 59      | 8       | 0         | 0         | 0        | 0         | 0     |
| 3721 Aircraft and parts                     | 22    | 1       | 0       | 21        | 0         | 0        | 0         | 0     |
| 3791 Miscellaneous transportation equipment | 19    | 0       | 19      | 0         | 0         | 0        | 0         | 0     |
| 3911 Miscellaneous manufactured products    | 481   | 25      | 10      | 0         | 0         | 200      | 246       | 0     |
| 4011 Iron and steel scrap                   | 6,760 | 0       | 6,760   | 0         | 0         | 0        | 0         | 0     |
| 4012 Nonferrous metal scrap                 | 32    | 0       | 32      | 0         | 0         | 0        | 0         | 0     |
| 4112 Commodities, nec                       | 100   | 0       | 0       | 0         | 0         | 100      | 0         | 0     |

<sup>a</sup> Not elsewhere classified.

Table TRANS 17. Port of Pensacola freight traffic (short tons) in 1970 (U.S. Army Corps of Engineers 1972).

| Commodity classification                            | Total     | Foreign |         | Domestic  |           |          |           | Local  |
|---|-----------|---------|---------|-----------|-----------|----------|-----------|--------|
|   |           | Imports | Exports | Coastwise |           | Internal |           |        |
|   |           |         |         | Receipts  | Shipments | Receipts | Shipments |        |
| Total   | 1,002,174 | 92,042  | 97,617  | 4,187     | 5,059     | 755,981  | 31,283    | 16,005 |
| 0105 Rice   | 18,781    | 0       | 18,781  | 0         | 0         | 0        | 0         | 0      |
| 0911 Fresh fish, except shellfish                   | 8         | 0       | 0       | 0         | 0         | 8        | 0         | 0      |
| 0912 Shellfish, except prepared                     | 3         | 0       | 0       | 0         | 0         | 3        | 0         | 0      |
| 0931 Marine shells, unmanufactured                  | 78,943    | 0       | 0       | 0         | 0         | 78,943   | 0         | 0      |
| 1311 Crude petroleum                                | 14,166    | 0       | 0       | 0         | 0         | 14,166   | 0         | 0      |
| 1442 Sand, gravel, crushed rock                     | 11,775    | 0       | 0       | 0         | 0         | 11,775   | 0         | 0      |
| 1451 Clay   | 773       | 0       | 773     | 0         | 0         | 0        | 0         | 0      |
| 1479 Natural fertilizer materials, nec <sup>a</sup> | 25,872    | 25,872  | 0       | 0         | 0         | 0        | 0         | 0      |
| 2022 Dried milk and cream                           | 2,329     | 0       | 2,329   | 0         | 0         | 0        | 0         | 0      |
| 2034 Vegetables and prepared, nec                   | 5,449     | 5,449   | 0       | 0         | 0         | 0        | 0         | 0      |
| 2041 Wheat flour and semolina                       | 8,676     | 0       | 8,676   | 0         | 0         | 0        | 0         | 0      |
| 2042 Prepared animal feeds                          | 7,375     | 7,375   | 0       | 0         | 0         | 0        | 0         | 0      |
| 2049 Grain mill products, nec                       | 2,217     | 0       | 2,217   | 0         | 0         | 0        | 0         | 0      |

Continued

Table TRANS 17. Continued.

| Commodity classification                      | Total  | Foreign |         | Domestic  |           |          |           | Local  |
|---|--------|---------|---------|-----------|-----------|----------|-----------|--------|
|   |        | Imports | Exports | Coastwise |           | Internal |           |        |
|   |        |         |         | Receipts  | Shipments | Receipts | Shipments |        |
| 2081 Alcoholic beverages                      | 2      | 2       | 0       | 0         | 0         | 0        | 0         | 0      |
| 2091 Vegetable oils, margarine,<br>shortening | 608    | 0       | 608     | 0         | 0         | 0        | 0         | 0      |
| 2095 Ice                                      | 5      | 0       | 0       | 0         | 0         | 0        | 5         | 0      |
| 2099 Miscellaneous food<br>products           | 1,762  | 0       | 1,762   | 0         | 0         | 0        | 0         | 0      |
| 2211 Basic textile products                   | 264    | 159     | 105     | 0         | 0         | 0        | 0         | 0      |
| 2411 Logs                                     | 11,513 | 11,513  | 0       | 0         | 0         | 0        | 0         | 0      |
| 2412 Rafted logs                              | 16,005 | 0       | 0       | 0         | 0         | 0        | 0         | 16,005 |
| 2414 Timber, posts, poles,<br>piling          | 6,093  | 0       | 6,093   | 0         | 0         | 0        | 0         | 0      |
| 2416 Wood chips, staves,<br>moldings          | 107    | 107     | 0       | 0         | 0         | 0        | 0         | 0      |
| 2421 Lumber                                   | 8,720  | 7,472   | 1,248   | 0         | 0         | 0        | 0         | 0      |
| 2431 Veneer, plywood,<br>worked wood          | 2,131  | 2,131   | 0       | 0         | 0         | 0        | 0         | 0      |
| 2491 Wood manufactures, nec                   | 9      | 9       | 0       | 0         | 0         | 0        | 0         | 0      |
| 2511 Furniture and fixtures                   | 3      | 3       | 0       | 0         | 0         | 0        | 0         | 0      |
| 2611 Pulp                                     | 17,386 | 0       | 17,386  | 0         | 0         | 0        | 0         | 0      |
| 2631 Paper and paperboard                     | 19,031 | 0       | 14,035  | 0         | 4,899     | 0        | 97        | 0      |
| 2811 Crude tar, oil, gas<br>products          | 5,279  | 5,279   | 0       | 0         | 0         | 0        | 0         | 0      |

Continued

Table TRANS 17. Continued.

| Commodity classification                        | Total   | Foreign |         | Domestic  |           |          |           | Local |
|---|---------|---------|---------|-----------|-----------|----------|-----------|-------|
|   |         | Imports | Exports | Coastwise |           | Internal |           |       |
|   |         |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 2813 Alcohols                                   | 9,321   | 0       | 0       | 0         | 0         | 0        | 9,321     | 0     |
| 2817 Benzene and toluene                        | 2,661   | 0       | 0       | 0         | 0         | 2,661    | 0         | 0     |
| 2819 Basic chemicals and products, nec          | 17,785  | 15,627  | 322     | 0         | 0         | 1,836    | 0         | 0     |
| 2821 Plastic materials                          | 44      | 0       | 44      | 0         | 0         | 0        | 0         | 0     |
| 2823 Synthetic fibers                           | 1,719   | 0       | 1,719   | 0         | 0         | 0        | 0         | 0     |
| 2861 Gum and wood chemicals                     | 27,580  | 0       | 12,117  | 0         | 0         | 0        | 15,463    | 0     |
| 2871 Nitrogenous chemical fertilizers           | 13,472  | 0       | 7,872   | 0         | 0         | 0        | 5,600     | 0     |
| 2891 Miscellaneous chemical products            | 694     | 0       | 694     | 0         | 0         | 0        | 0         | 0     |
| 2911 Gasoline                                   | 433,737 | 0       | 0       | 0         | 0         | 433,737  | 0         | 0     |
| 2912 Jet fuel                                   | 56,680  | 0       | 0       | 0         | 0         | 56,680   | 0         | 0     |
| 2913 Kerosene                                   | 1,647   | 0       | 0       | 0         | 0         | 1,647    | 0         | 0     |
| 2914 Distillate fuel oil                        | 25,962  | 0       | 0       | 0         | 0         | 25,962   | 0         | 0     |
| 2915 Residual fuel oil                          | 71,247  | 0       | 0       | 4,010     | 0         | 67,237   | 0         | 0     |
| 2917 Naphtha, petroleum solvents                | 16,875  | 0       | 0       | 0         | 0         | 16,875   | 0         | 0     |
| 2921 Liquefied gases                            | 41,999  | 0       | 0       | 0         | 0         | 41,202   | 797       | 0     |
| 3011 Rubber and miscellaneous plastics products | 36      | 25      | 11      | 0         | 0         | 0        | 0         | 0     |

Continued

Table TRANS 17. Continued.

| Commodity classification                        | Total  | Foreign |         | Domestic  |           |          |           | Local |
|---|--------|---------|---------|-----------|-----------|----------|-----------|-------|
|   |        | Imports | Exports | Coastwise |           | Internal |           |       |
|   |        |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 3291 Miscellaneous nonmetallic mineral products | 2,079  | 3       | 76      | 0         | 0         | 2,000    | 0         | 0     |
| 3314 Iron and steel primary forms               | 198    | 0       | 198     | 0         | 0         | 0        | 0         | 0     |
| 3315 Iron, steel shapes, except sheet           | 184    | 174     | 10      | 0         | 0         | 0        | 0         | 0     |
| 3316 Iron and steel plates, sheets              | 11,596 | 10,620  | 2       | 0         | 140       | 834      | 0         | 0     |
| 3319 Iron and steel products, nec               | 415    | 0       | 0       | 0         | 0         | 415      | 0         | 0     |
| 3321 Nonferrous metals, nec                     | 3      | 0       | 3       | 0         | 0         | 0        | 0         | 0     |
| 3324 Aluminum and alloys, unworked              | 89     | 0       | 89      | 0         | 0         | 0        | 0         | 0     |
| 3411 Fabricated metal products                  | 300    | 218     | 82      | 0         | 0         | 0        | 0         | 0     |
| 3511 Machinery, except electrical               | 8      | 0       | 8       | 0         | 0         | 0        | 0         | 0     |
| 3611 Electrical machinery and equipment         | 1      | 0       | 1       | 0         | 0         | 0        | 0         | 0     |
| 3711 Motor vehicles, parts, equipment           | 12     | 0       | 12      | 0         | 0         | 0        | 0         | 0     |

Continued

Table TRANS 17. Continued.

| Commodity classification            | Total | Foreign |         | Domestic  |           |          |           | Local |
|-------------------------------------|-------|---------|---------|-----------|-----------|----------|-----------|-------|
|                                     |       | Imports | Exports | Coastwise |           | Internal |           |       |
|                                     |       |         |         | Receipts  | Shipments | Receipts | Shipments |       |
| 3721 Aircraft and parts             | 81    | 0       | 0       | 61        | 20        | 0        | 0         | 0     |
| 3731 Ships and boats                | 116   | 0       | 0       | 116       | 0         | 0        | 0         | 0     |
| 4012 Nonferrous metal scrap         | 273   | 0       | 273     | 0         | 0         | 0        | 0         | 0     |
| 4022 Textile waste, scrap,<br>sweep | 71    | 0       | 71      | 0         | 0         | 0        | 0         | 0     |
| 4112 Commodities, nec               | 4     | 4       | 0       | 0         | 0         | 0        | 0         | 0     |

<sup>a</sup> Not elsewhere classified.

Table TRANS 18. Port of Pensacola freight traffic (short tons) in 1975 (U.S. Army Corps of Engineers 1977).

| Commodity classification                   | Total     | Foreign |         |
|--|-----------|---------|---------|
|  |           | Imports | Exports |
| Total                                      | 2,262,084 | 321,964 | 292,796 |
| 0103 Corn                                  | 332       | 0       | 332     |
| 0105 Rice                                  | 146,291   | 0       | 133,837 |
| 0106 Sorghum grains                        | 3,186     | 0       | 160     |
| 0107 Wheat                                 | 1,072     | 0       | 0       |
| 0119 Oilseeds, nec <sup>a</sup>            | 649       | 0       | 0       |
| 0133 Coffee                                | 77        | 77      | 0       |
| 0191 Miscellaneous farm products           | 1         | 0       | 1       |
| 0861 Forest products, nec                  | 11        | 11      | 0       |
| 0931 Marine shells, unmanufactured         | 69,251    | 0       | 0       |
| 1311 Crude petroleum                       | 540,209   | 273,097 | 0       |
| 1442 Sand, gravel, crushed rock            | 10,371    | 0       | 0       |
| 1451 Clay                                  | 397       | 0       | 0       |
| 1479 Natural fertilizer materials, nec     | 22,957    | 22,957  | 0       |
| 1493 Liquid sulphur                        | 417,999   | 0       | 0       |
| 2022 Dried milk and cream                  | 128       | 0       | 128     |
| 2034 Vegetables and prepared, nec          | 60        | 60      | 0       |
| 2041 Wheat flour and semolina              | 38,782    | 0       | 32,742  |
| 2042 Prepared animal feeds                 | 17,667    | 16,802  | 865     |
| 2049 Grain mill products, nec              | 95,518    | 0       | 86,138  |
| 2091 Vegetable oils, margarine, shortening | 307       | 0       | 307     |
| 2099 Miscellaneous food products           | 15,957    | 0       | 15,957  |
| 2211 Basic textile products                | 5         | 0       | 5       |
| 2311 Apparel                               | 46        | 46      | 0       |
| 2414 Timber, posts, poles, piling          | 1,094     | 0       | 1,094   |
| 2416 Wood chips, staves, moldings          | 40        | 40      | 0       |

Continued

Table TRANS 18. Continued.

| Commodity classification                           | Total     | Foreign |         |
|--|-----------|---------|---------|
|  |           | Imports | Exports |
| Total  | 2,262,084 | 321,964 | 292,796 |
| 2421 Lumber  | 13,117    | 7,186   | 5,931   |
| 2431 Veneer, plywood, worked wood                  | 776       | 776     | 0       |
| 2491 Wood manufactures, nec                        | 71        | 57      | 14      |
| 2611 Pulp  | 228       | 0       | 228     |
| 2631 Paper and paperboard                          | 19,800    | 0       | 12,497  |
| 2810 Sodium hydroxide                              | 20,345    | 0       | 0       |
| 2811 Crude tar, oil, gas products                  | 2,667     | 0       | 0       |
| 2813 Alcohols                                      | 19,031    | 0       | 0       |
| 2819 Basic chemicals and<br>products, nec          | 13,563    | 0       | 0       |
| 2821 Plastic materials                             | 463       | 0       | 1       |
| 2823 Synthetic fibers                              | 533       | 0       | 533     |
| 2841 Soap  | 126       | 0       | 126     |
| 2861 Gum and wood chemicals                        | 6,523     | 327     | 652     |
| 2871 Nitrogenous chemical fertilizers              | 752       | 0       | 752     |
| 2891 Miscellaneous chemical products               | 48        | 22      | 26      |
| 2911 Gasoline                                      | 424,732   | 0       | 0       |
| 2912 Jet fuel                                      | 16,984    | 0       | 0       |
| 2914 Distillate fuel oil                           | 89,757    | 0       | 0       |
| 2915 Residual fuel oil                             | 204,054   | 0       | 0       |
| 2917 Naphtha, petroleum solvents                   | 7,659     | 0       | 0       |
| 2921 Liquified gases                               | 35,385    | 0       | 0       |
| 3011 Rubber and miscellaneous<br>plastics products | 55        | 0       | 55      |
| 3251 Structural clay products                      | 28        | 0       | 28      |
| 3315 Iron, steel shapes, except sheet              | 515       | 0       | 0       |
| 3317 Iron and steel pipe and tube                  | 100       | 0       | 0       |

Continued



Table TRANS 18. Continued.

| Commodity classification                       | Total | Foreign |         |
|--|-------|---------|---------|
|  |       | Imports | Exports |
| 3319 Iron and steel products, nec              | 2     | 0       | 2       |
| 3321 Nonferrous metals, nec                    | 8     | 0       | 8       |
| 3322 Copper alloys, unworked                   | 50    | 50      | 0       |
| 3411 Fabricated metal prod.                    | 176   | 2       | 8       |
| 3511 Machinery, except electrical              | 1,553 | 454     | 124     |
| 3611 Electrical machinery and<br>equipment     | 4     | 0       | 4       |
| 3711 Motor vehicles, parts, equipment          | 41    | 0       | 41      |
| 3721 Aircraft and parts                        | 5     | 0       | 0       |
| 3731 Ships and boats                           | 11    | 0       | 11      |
| 3791 Miscellaneous transportation<br>equipment | 7     | 0       | 7       |
| 3811 Instruments, photo, optical<br>goods      | 1     | 0       | 1       |
| 4011 Iron and steel scrap                      | 25    | 0       | 0       |
| 4024 Paper waste and scrap                     | 174   | 0       | 174     |
| 4112 Commodities, nec                          | 202   | 0       | 7       |

Continued

Table TRANS 18. Continued.

| Commodity classification                   | Domestic  |           |          |           |       |
|--|-----------|-----------|----------|-----------|-------|
|  | Coastwise |           | Internal |           | Local |
|  | Receipts  | Shipments | Receipts | Shipments |       |
| Total                                      | 5,549     | 36,680    | 876,809  | 726,902   | 1,284 |
| 0103 Corn                                  | 0         | 0         | 0        | 0         | 0     |
| 0105 Rice                                  | 0         | 0         | 2,220    | 10,234    | 0     |
| 0106 Sorghum grains                        | 0         | 0         | 0        | 3,026     | 0     |
| 0107 Wheat                                 | 0         | 0         | 0        | 1,072     | 0     |
| 0119 Oilseeds, nec                         | 0         | 0         | 0        | 649       | 0     |
| 0133 Coffee                                | 0         | 0         | 0        | 0         | 0     |
| 0191 Miscellaneous farm products           | 0         | 0         | 0        | 0         | 0     |
| 0861 Forest products, nec                  | 0         | 0         | 0        | 0         | 0     |
| 0931 Marine shells, unmanufactured         | 0         | 0         | 69,251   | 0         | 0     |
| 1311 Crude petroleum                       | 0         | 0         | 0        | 267,112   | 0     |
| 1442 Sand, gravel, crushed rock            | 0         | 0         | 10,371   | 0         | 0     |
| 1451 Clay                                  | 0         | 0         | 0        | 397       | 0     |
| 1479 Natural fertilizer materials, nec     | 0         | 0         | 0        | 0         | 0     |
| 1493 Liquid sulphur                        | 0         | 33,065    | 0        | 384,934   | 0     |
| 2022 Dried milk and cream                  | 0         | 0         | 0        | 0         | 0     |
| 2034 Vegetables and prepared, nec          | 0         | 0         | 0        | 0         | 0     |
| 2041 Wheat flour and semolina              | 0         | 0         | 0        | 6,040     | 0     |
| 2042 Prepared animal feeds                 | 0         | 0         | 0        | 0         | 0     |
| 2049 Grain mill products nec               | 0         | 0         | 0        | 9,380     | 0     |
| 2091 Vegetable oils, margarine, shortening | 0         | 0         | 0        | 0         | 0     |
| 2099 Miscellaneous food products           | 0         | 0         | 0        | 0         | 0     |
| 2211 Basic textile products                | 0         | 0         | 0        | 0         | 0     |
| 2311 Apparel                               | 0         | 0         | 0        | 0         | 0     |

Continued

Table TRANS 18. Continued.

| Commodity classification                           | Domestic  |           |          |           |       |
|--|-----------|-----------|----------|-----------|-------|
|  | Coastwise |           | Internal |           | Local |
|  | Receipts  | Shipments | Receipts | Shipments |       |
| 2414 Timber, posts, poles, piling                  | 0         | 0         | 0        | 0         | 0     |
| 2416 Wood chips, staves, moldings                  | 0         | 0         | 0        | 0         | 0     |
| 2421 Lumber  | 0         | 0         | 0        | 0         | 0     |
| 2431 Veneer, plywood, worked wood                  | 0         | 0         | 0        | 0         | 0     |
| 2491 Wood manufactures, nec                        | 0         | 0         | 0        | 0         | 0     |
| 2611 Pulp  | 0         | 0         | 0        | 0         | 0     |
| 2631 Paper and paperboard                          | 0         | 0         | 0        | 7,303     | 0     |
| 2810 Sodium hydroxide                              | 0         | 0         | 20,345   | 0         | 0     |
| 2811 Crude tar, oil, gas products                  | 0         | 0         | 2,667    | 0         | 0     |
| 2813 Alcohols                                      | 0         | 3,615     | 12,807   | 1,325     | 1,284 |
| 2819 Basic chemicals and products, nec             | 0         | 0         | 13,563   | 0         | 0     |
| 2821 Plastic materials                             | 0         | 0         | 0        | 462       | 0     |
| 2823 Synthetic fibers                              | 0         | 0         | 0        | 0         | 0     |
| 2841 Soap  | 0         | 0         | 0        | 0         | 0     |
| 2861 Gum and wood chemicals                        | 5,644     | 0         | 0        | 0         | 0     |
| 2871 Nitrogenous chemical fertilizers              | 0         | 0         | 0        | 0         | 0     |
| 2891 Miscellaneous chemical products               | 0         | 0         | 0        | 0         | 0     |
| 2911 Gasoline                                      | 0         | 0         | 424,732  | 0         | 0     |
| 2912 Jet fuel                                      | 0         | 0         | 16,984   | 0         | 0     |
| 2914 Distillate fuel oil                           | 0         | 0         | 88,080   | 1,677     | 0     |
| 2915 Residual fuel oil                             | 0         | 0         | 179,838  | 24,216    | 0     |
| 2917 Naphtha, petroleum solvents                   | 0         | 0         | 7,659    | 0         | 0     |
| 2921 Liquified gases                               | 0         | 0         | 27,796   | 7,589     | 0     |
| 3011 Rubber and miscellaneous<br>plastics products | 0         | 0         | 0        | 0         | 0     |
| 3251 Structural clay products                      | 0         | 0         | 0        | 0         | 0     |
| 3315 Iron, steel shapes, except sheet              | 0         | 0         | 490      | 25        | 0     |
| 3317 Iron and steel pipe and tube                  | 0         | 0         | 0        | 100       | 0     |

Continued

Table TRANS 18. Concluded.

| Commodity classification                    | Domestic  |           |          |           |       |
|---|-----------|-----------|----------|-----------|-------|
|   | Coastwise |           | Internal |           | Local |
|   | Receipts  | Shipments | Receipts | Shipments |       |
| 3319 Iron and steel products, nec           | 0         | 0         | 0        | 0         | 0     |
| 3321 Nonferrous metals, nec                 | 0         | 0         | 0        | 0         | 0     |
| 3322 Copper alloys, unworked                | 0         | 0         | 0        | 0         | 0     |
| 3411 Fabricated metal products              | 0         | 0         | 0        | 166       | 0     |
| 3511 Machinery, except electrical           | 0         | 0         | 0        | 975       | 0     |
| 3611 Electrical machinery and equipment     | 0         | 0         | 0        | 0         | 0     |
| 3711 Motor vehicles, parts, equipment       | 0         | 0         | 0        | 0         | 0     |
| 3721 Aircraft and aprts                     | 5         | 0         | 0        | 0         | 0     |
| 3731 Ships and boats                        | 0         | 0         | 0        | 0         | 0     |
| 3791 Miscellaneous transportation equipment | 0         | 0         | 0        | 0         | 0     |
| 3811 Instruments, photo, optical goods      | 0         | 0         | 0        | 0         | 0     |
| 4011 Iron and steel scrap                   | 0         | 0         | 0        | 25        | 0     |
| 4024 Paper waste and scrap                  |           |           |          |           |       |
| 4112 Commodities, nec                       | 0         | 0         | 0        | 195       | 0     |

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<sup>a</sup> Not elsewhere classified.

Table TRANS 19. Loading and unloading equipment availability at ports<sup>a</sup> as of December 1978 (Florida Department of Transportation 1978b).

| Equipment                                  | Port of<br>Panama City | Port of<br>Pensacola | Port of<br>St. Joe |
|--|------------------------|----------------------|--------------------|
| Petroleum pipeline                         |                        |                      | X                  |
| Chiksan                                    |                        |                      |                    |
| Oil pits                                   |                        |                      |                    |
| Payloaders                                 |                        |                      |                    |
| Conveyors                                  | X                      | X                    |                    |
| Cranes                                     |                        |                      |                    |
| Bulldozers                                 |                        |                      |                    |
| Front end loaders                          |                        |                      |                    |
| Forklifts                                  |                        |                      | X                  |
| Trucks                                     |                        |                      |                    |
| Gantry cranes                              | X                      |                      |                    |
| Crawler cranes                             | X                      |                      |                    |
| Hose handling booms                        | X                      |                      | X                  |
| Towboats                                   |                        | X                    |                    |
| Stevedore furnished equipment              | X                      | X                    | X                  |
| Roll on, roll off ramps                    |                        | X                    |                    |
| Equipment owned by<br>individual operators |                        |                      |                    |

<sup>a</sup> No data for Port of Apalachicola.

Table TRANS 20. Port of Panama City storage and capacity in 1978 (Florida Department of Transportation 1978b).

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|                  |  |
|------------------|--|
| Storage          | Covered: 327,895 ft <sup>2</sup> (7.5 acres)<br>Transit sheds: 144,895 ft <sup>2</sup> (3.3 acres)<br>Port owned warehouses: 66,000 ft <sup>2</sup> (1.5 acres)<br>Privately owned warehouses: 117,000 ft <sup>2</sup> (2.7 acres)<br>Open: 17 acres |
| Special storage  | Dry bulk silo: 400 tons<br>Coal storage area: 200,000 tons<br>Liquid bulk: petroleum 1,235,838 bbl<br>liquid petroleum gas 19,286 bbl<br>chemicals 2,700 tons  |
| Berth facilities | Public and Port Authority owned<br>deep water wharves 1,600 ft<br>shallow water wharves 620 ft<br>Private<br>deep water wharves 2,935 ft<br>shallow water wharves 6,138 ft   |

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Table TRANS 21. Port of Pensacola storage and capacity in 1978 (Florida Department of Transportation 1978b).

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|                  |   |
|------------------|---|
| Storage          | Covered: 357,100 ft <sup>2</sup> (8.20 acres)<br>Transit sheds: 249,000 ft <sup>2</sup> (5.72 acres)<br>Warehouses, bulk: 108,100 ft <sup>2</sup> (2.48 acres)<br>Open: Port Authority, 5 acres<br>Open: private, 3 acres   |
| Special storage  | Liquid bulk: petroleum 547,000 bbl<br>chemicals 44,000 bbl<br>Liquid bulk: private: 615,547 bbl   |
| Berth facilities | #7: primarily used for sulphur barges, 500-ft wharf,<br>12 ft deep<br>#'s 6,5,3,2: general cargo, lumber and petroleum<br>products, 2030-ft wharf, 33 ft deep, served by<br>rail, warehouses, tank farms<br>#1: primarily used for fertilizers, 600-ft timber<br>wharf, 12 ft to 33 ft deep, conveyor to warehouses<br>#4: 100-ft shallow wharf for barges, primarily<br>used for domestic commodities<br>#'s 11,12,13,14: docking facilities for fishing boats,<br>barges, tugs and Naval vessels<br>#'s 15,16: not in use<br>#'s 17,18,19: fishing boats and small craft<br>#'s 20,21,22: small craft, 200-ft wharf |
| Other            | Facility has eight private terminals and small boat<br>docks  |

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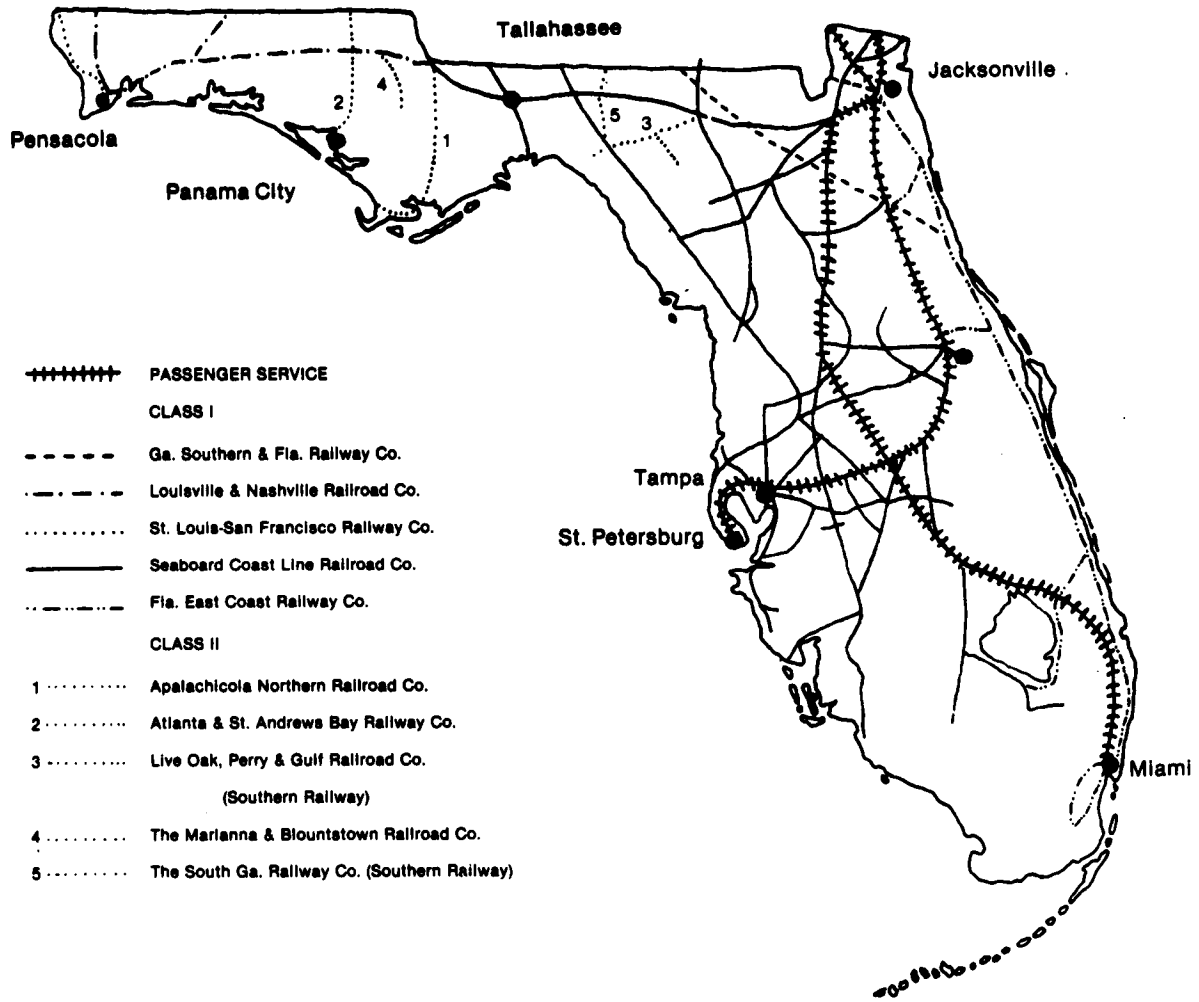


Figure 5. Passenger and freight railroads in Florida (Florida Department of Transportation 1978a).



Table TRANS 22. Port of St. Joe storage and capacity in 1978 (Florida Department of Transportation 1978b).

Port consists of a deep water wharf approximately 0.5 mi long with three terminals:

- 1) Hess Oil Co. tank farm: 900,000 bbl
- 2) Public terminal: little use, in need of repair
- 3) St. Joe Paper Co.: 49,740 ft<sup>2</sup> covered storage

Table TRANS 23. Port of Apalachicola storage and capacity in 1978 (Florida Department of Transportation 1978b).

Port consists of a city-owned marina for recreational craft, and two 80-ft timber wharves for public use.

Commercial traffic is limited to seafood processing, boat repair and some petroleum distribution.

Table TRANS 24. Road miles of track by class of railroad for 1973, 1974, 1975 and 1980 (Florida Department of Transportation 1978a).

| Railroad class     | 1973     | 1974     | 1975     | 1980     |
|--------------------|----------|----------|----------|----------|
| Class I railroads  | 3,822.75 | 3,783.10 | 3,878.38 | 4,172.44 |
| Class II railroads | 252.99   | 253.07   | 253.07   | 246.97   |
| Military           | N.D.     | N.D.     | N.D.     | N.D.     |
| Private            | N.D.     | N.D.     | N.D.     | N.D.     |
| Florida            | N.D.     | N.D.     | N.D.     | 4,720.53 |

Table TRANS 25. Road miles of track by railroad line, operating revenue and operating expense for 1973, 1974 and 1975 (Florida Department of Transportation 1978a).

| Railroad line                     | 1973      | 1974      | 1975      |
|-----------------------------------|-----------|-----------|-----------|
| <u>Class I</u>                    |           |           |           |
| Florida East Coast                | 656 .52   | 609 .44   | 590 .00   |
| Georgia Southern and Florida      | 36 .30    | 36 .30    | N.D.      |
| Louisville and Nashville          | 245 .63   | 235 .63   | 247 .00   |
| St. Louis and San Francisco       | 47 .48    | 45 .15    | 48 .00    |
| Seaboard Coast Line               | 2,836 .82 | 2,856 .58 | 2,993 .38 |
| <u>Class II</u>                   |           |           |           |
| Apalachicola Northern             | 95 .62    | 96 .00    | 96 .00    |
| Atlanta and St. Andrews Bay       | 72 .46    | 72 .46    | 72 .46    |
| Live Oak, Perry and South Georgia | 85 .91    | 84 .61    | 84 .61    |

Continued

Table TRANS 25. Concluded.

| Railroad                 | Year              | Operating<br>revenue<br>(\$1,000) | Operating<br>expense<br>(\$1,000) |
|--------------------------|-------------------|-----------------------------------|-----------------------------------|
| Terminal companies       |                   |                                   |                                   |
| Jacksonville terminal    | 1973              | 2,297                             | 2,297                             |
|                          | 1974              | 2,535                             | 2,535                             |
|                          | 1975              | 2,373                             | 63,636                            |
| Municipal docks          | 1973              | 61                                | 67                                |
|                          | 1974              | 103                               | 48                                |
|                          | 1975              | N.D.                              | N.D.                              |
| St. Johns River terminal | 1973              | 1,918                             | 1,408                             |
|                          | 1974              | 2,633                             | 1,589                             |
|                          | 1975              | 2,167                             | 1,626                             |
| Total                    | 1973 <sup>a</sup> | 256,917                           | 187,282                           |
|                          | 1974 <sup>b</sup> | 268,112                           | 198,705                           |
|                          | 1975 <sup>c</sup> | 227,169                           | 194,496                           |

<sup>a</sup> Excluded Jacksonville Terminal Co.

<sup>b</sup> Excluded Jacksonville Terminal Co., Atlanta and St. Andrews Bay and Live Oak, Perry and South Georgia.

<sup>c</sup> Excluded Jacksonville Terminal Co. and Municipal Docks Railway Co.

Table TRANS 26. Total road miles<sup>a</sup> of track in 1980 for selected Florida railroads (Florida Department of Transportation 1981b).

| County     | Louisville and Nashville | St. Louis and San Francisco | Apalachicola Northern | Atlanta and St. Andrews Bay |
|------------|--------------------------|-----------------------------|-----------------------|-----------------------------|
| Bay        | 0.0                      | 0.0                         | 0.0                   | 54.03                       |
| Escambia   | 59.34                    | 59.81                       | 0.0                   | 0.0                         |
| Franklin   | 0.0                      | 0.0                         | 28.62                 | 0.0                         |
| Gulf       | 0.0                      | 0.0                         | 17.48                 | 0.0                         |
| Okaloosa   | 48.46                    | 0.0                         | 0.0                   | 0.0                         |
| Santa Rosa | 29.77                    | 0.0                         | 0.0                   | 0.0                         |
| Walton     | 25.44                    | 0.0                         | 0.0                   | 0.0                         |
| Region     | 163.01                   | 59.81                       | 46.10                 | 54.03                       |

<sup>a</sup> No single track miles for Florida East Coast, Georgia Southern and Florida, Seaboard Coastline and Live Oak, Perry and Southern Georgia.

Table TRANS 27. Total revenue freight (tons) carried by Class I railroads in Florida in 1971 (Florida Department of Transportation 1980d).

| Product  | Seaboard<br>Coastline | Florida<br>East Coast | Georgia Southern<br>and Florida |
|--|-----------------------|-----------------------|---------------------------------|
| Farm products                                    | 2,437,776             | 812,712               | 129,426                         |
| Nonmetallic minerals<br>except fuels             | 34,610,968            | 3,248,535             | 2,218,761                       |
| Food and kindred<br>products                     | 5,254,366             | 748,541               | 459,090                         |
| Lumber and wood<br>products, except<br>furniture | 6,172,302             | 257,566               | 544,352                         |
| Pulp and paper                                   | 2,694,463             | 216,243               | 415,357                         |
| Chemicals  | 8,205,273             | 270,409               | 886,617                         |
| Petroleum and coal<br>products                   | 854,887               | 153,227               | 57,325                          |
| Stone, clay and glass                            | 6,937,889             | 377,116               | 443,712                         |
| Primary metal<br>products                        | 860,245               | 137,398               | 137,188                         |
| Transportation<br>equipment                      | 695,909               | 323,267               | 227,758                         |
| Other  | 3,420,185             | 877,990               | 556,052                         |
| Total  | 72,144,263            | 7,423,004             | 6,075,638                       |

Continued

Table TRANS 27. Concluded.

| Product  | Louisville<br>and Nashville | St Louis and<br>San Francisco |
|--|-----------------------------|-------------------------------|
| Farm products                                    | 38,789                      | 3,970                         |
| Nonmetallic minerals<br>except fuels             | 675,761                     | 73,445                        |
| Food and kindred<br>products                     | 260,417                     | 39,964                        |
| Lumber and wood<br>products, except<br>furniture | 1,541,952                   | 299,322                       |
| Pulp and paper                                   | 405,008                     | 179,132                       |
| Chemicals  | 1,333,798                   | 69,552                        |
| Petroleum and coal<br>products                   | 266,681                     | 5,344                         |
| Stone, clay and glass                            | 577,022                     | 76,688                        |
| Primary metal<br>products                        | 28,141                      | 4,091                         |
| Transportation<br>equipment                      | 43,612                      | 177                           |
| Other  | 351,822                     | 32,301                        |
| Total  | 5,523,003                   | 783,986                       |

Table TRANS 28. Total revenue freight (tons) carried by Class I railroads in Florida in 1972 (Florida Department of Transportation 1980d).

| Product  | Seaboard<br>Coastline | Florida<br>East Coast | Georgia Southern<br>and Florida |
|--|-----------------------|-----------------------|---------------------------------|
| Farm products                                    | 2,474,412             | 864,112               | 119,450                         |
| Nonmetallic minerals<br>except fuels             | 38,012,568            | 3,143,365             | 2,082,846                       |
| Food and kindred<br>products                     | 5,189,887             | 806,313               | 483,418                         |
| Lumber and wood<br>products, except<br>furniture | 7,099,232             | 290,267               | 584,668                         |
| Pulp and paper                                   | 2,820,584             | 221,537               | 458,143                         |
| Chemicals  | 8,478,407             | 277,586               | 936,495                         |
| Petroleum and coal<br>products                   | 916,610               | 137,640               | 51,125                          |
| Stone, clay and glass                            | 7,058,453             | 505,766               | 587,699                         |
| Primary metal<br>products                        | 750,820               | 119,187               | 134,748                         |
| Transportation<br>equipment                      | 772,814               | 364,463               | 258,360                         |
| Other  | 4,223,219             | 1,156,086             | 642,484                         |
| Total  | 77,797,006            | 7,886,322             | 6,339,436                       |

Continued

Table TRANS 28. Concluded.

| Product  | Louisville<br>and Nashville | St Louis and<br>San Francisco |
|--|-----------------------------|-------------------------------|
| Farm products                                    | 62,331                      | 8,759                         |
| Nonmetallic minerals<br>except fuels             | 726,753                     | 80,606                        |
| Food and kindred<br>products                     | 362,484                     | 101,346                       |
| Lumber and wood<br>products, except<br>furniture | 1,615,333                   | 343,052                       |
| Pulp and paper                                   | 504,359                     | 231,196                       |
| Chemicals  | 1,461,700                   | 63,022                        |
| Petroleum and coal<br>products                   | 297,343                     | 3,882                         |
| Stone, clay and glass                            | 633,264                     | 91,899                        |
| Primary metal<br>products                        | 66,663                      | 1,690                         |
| Transportation<br>equipment                      | 69,459                      | 137                           |
| Other  | 562,219                     | 30,002                        |
| Total  | 6,361,908                   | 955,591                       |



Table TRANS 29. Total revenue freight (tons) carried by Class I railroads in Florida in 1973 (Florida Department of Transportation 1980d).

| Product  | Seaboard<br>Coastline | Florida<br>East Coast | Georgia Southern<br>and Florida |
|--|-----------------------|-----------------------|---------------------------------|
| Farm products                                    | 2,939,428             | 1,017,747             | 140,129                         |
| Nonmetallic minerals<br>except fuels             | 39,087,889            | 3,490,283             | 2,385,820                       |
| Food and kindred<br>products                     | 5,694,495             | 1,030,307             | 491,279                         |
| Lumber and wood<br>products, except<br>furniture | 7,507,033             | 363,352               | 604,836                         |
| Pulp and paper                                   | 2,867,112             | 236,302               | 449,937                         |
| Chemicals  | 9,223,175             | 285,892               | 1,137,419                       |
| Petroleum and coal<br>products                   | 994,781               | 144,645               | 65,012                          |
| Stone, clay and glass                            | 7,509,719             | 632,246               | 678,010                         |
| Primary metal<br>products                        | 898,833               | 138,365               | 209,221                         |
| Transportation<br>equipment                      | 896,320               | 416,713               | 280,802                         |
| Other  | 5,498,852             | 1,504,113             | 835,829                         |
| Total  | 83,117,637            | 9,270,065             | 7,278,294                       |

Continued

Table TRANS 29. Concluded.

| Product  | Louisville<br>and Nashville | St Louis and<br>San Francisco |
|--|-----------------------------|-------------------------------|
| Farm products                                    | 66,778                      | 2,235                         |
| Nonmetallic minerals<br>except fuels             | 962,413                     | 70,392                        |
| Food and kindred<br>products                     | 501,010                     | 75,739                        |
| Lumber and wood<br>products, except<br>furniture | 1,600,191                   | 333,796                       |
| Pulp and paper                                   | 557,403                     | 194,794                       |
| Chemicals  | 1,692,333                   | 66,103                        |
| Petroleum and coal<br>products                   | 331,147                     | 2,588                         |
| Stone, clay and glass                            | 760,410                     | 115,811                       |
| Primary metal<br>products                        | 162,339                     | 2,273                         |
| Transportation<br>equipment                      | 88,708                      | 150                           |
| Other  | 525,545                     | 24,604                        |
| Total  | 7,248,277                   | 888,485                       |

Table TRANS 30. Total revenue freight (tons) carried by Class I railroads in Florida in 1974 (Florida Department of Transportation 1980d).

| Product  | Seaboard<br>Coastline | Florida<br>East Coast | Georgia Southern<br>and Florida |
|--|-----------------------|-----------------------|---------------------------------|
| Farm products                                    | 2,463,305             | 862,867               | 177,362                         |
| Nonmetallic minerals<br>except fuels             | 40,469,885            | 3,400,209             | 1,944,734                       |
| Food and kindred<br>products                     | 5,762,085             | 920,686               | 493,303                         |
| Lumber and wood<br>products, except<br>furniture | 7,090,011             | 298,771               | 657,552                         |
| Pulp and paper                                   | 3,023,238             | 266,046               | 471,105                         |
| Chemicals  | 9,108,853             | 275,967               | 1,018,354                       |
| Petroleum and coal<br>products                   | 948,877               | 137,098               | 65,563                          |
| Stone, clay and glass                            | 6,584,252             | 481,364               | 637,009                         |
| Primary metal<br>products                        | 889,566               | 166,108               | 244,518                         |
| Transportation<br>equipment                      | 684,802               | 292,848               | 201,482                         |
| Other  | 5,264,262             | 1,668,774             | 851,416                         |
| Total  | 82,289,136            | 8,770,738             | 6,762,398                       |

Continued

Table TRANS 30. Concluded.

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| Product  | Louisville<br>and Nashville | St Louis and<br>San Francisco |
|--|-----------------------------|-------------------------------|
| Farm products                                    | 94,037                      | 5,121                         |
| Nonmetallic minerals<br>except fuels             | 1,051,743                   | 107,099                       |
| Food and kindred<br>products                     | 428,800                     | 97,274                        |
| Lumber and wood<br>products, except<br>furniture | 1,336,189                   | 341,171                       |
| Pulp and paper                                   | 555,363                     | 190,055                       |
| Chemicals  | 1,825,336                   | 61,777                        |
| Petroleum and coal<br>products                   | 340,436                     | 1,978                         |
| Stone, clay and glass                            | 669,809                     | 90,744                        |
| Primary metal<br>products                        | 93,887                      | 5,157                         |
| Transportation<br>equipment                      | 43,876                      | 259                           |
| Other  | 685,340                     | 20,991                        |
| Total  | 7,124,816                   | 921,626                       |

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Table TRANS 31. Total revenue freight (tons) carried by Class I railroads in Florida in 1975 (Florida Department of Transportation 1980d).

| Product  | Seaboard<br>Coastline | Florida<br>East Coast | Georgia Southern<br>and Florida |
|--|-----------------------|-----------------------|---------------------------------|
| Farm products                                    | 2,424,261             | 932,433               | 99,579                          |
| Nonmetallic minerals<br>except fuels             | 37,677,254            | 2,976,362             | 1,788,623                       |
| Food and kindred<br>products                     | 5,739,145             | 942,869               | 438,071                         |
| Lumber and wood<br>products, except<br>furniture | 5,694,154             | 214,553               | 501,521                         |
| Pulp and paper                                   | 2,687,044             | 190,973               | 355,964                         |
| Chemicals  | 9,303,433             | 262,422               | 980,650                         |
| Petroleum and coal<br>products                   | 712,091               | 106,697               | 42,851                          |
| Stone, clay and glass                            | 5,023,249             | 347,449               | 431,441                         |
| Primary metal<br>products                        | 607,513               | 108,154               | 184,033                         |
| Transportation<br>equipment                      | 560,177               | 246,298               | 180,712                         |
| Other  | 4,507,903             | 1,460,942             | 821,034                         |
| Total  | 74,936,224            | 7,789,152             | 5,824,479                       |

Continued

Table TRANS 31. Concluded.

| Product  | Louisville<br>and Nashville | St Louis and<br>San Francisco |
|--|-----------------------------|-------------------------------|
| Farm products                                    | 130,857                     | 2,031                         |
| Nonmetallic minerals<br>except fuels             | 692,175                     | 69,370                        |
| Food and kindred<br>products                     | 553,305                     | 307,892                       |
| Lumber and wood<br>products, except<br>furniture | 953,176                     | 292,984                       |
| Pulp and paper                                   | 482,378                     | 133,042                       |
| Chemicals  | 1,798,288                   | 33,507                        |
| Petroleum and coal<br>products                   | 283,217                     | 1,248                         |
| Stone, clay and glass                            | 468,882                     | 47,941                        |
| Primary metal<br>products                        | 50,057                      | 4,152                         |
| Transportation<br>equipment                      | 25,755                      | 136                           |
| Other  | 618,397                     | 16,525                        |
| Total  | 6,056,487                   | 908,828                       |

Table TRANS 32. Total revenue freight (tons) carried by Class I railroads in Florida in 1976 (Florida Department of Transportation 1980d).

| Product  | Seaboard<br>Coastline | Florida<br>East Coast | Georgia Southern<br>and Florida |
|--|-----------------------|-----------------------|---------------------------------|
| Farm products                                    | 1,918,738             | 592,242               | 148,693                         |
| Nonmetallic minerals<br>except fuels             | 36,406,858            | 3,188,098             | 1,683,402                       |
| Food and kindred<br>products                     | 5,984,207             | 1,161,840             | 509,232                         |
| Lumber and wood<br>products, except<br>furniture | 6,229,994             | 223,977               | 681,172                         |
| Pulp and paper                                   | 3,010,416             | 226,603               | 524,188                         |
| Chemicals  | 10,217,521            | 284,265               | 775,899                         |
| Petroleum and coal<br>products                   | 799,830               | 124,282               | 45,632                          |
| Stone, clay and glass                            | 5,086,221             | 354,737               | 449,272                         |
| Primary metal<br>products                        | 604,606               | 65,069                | 173,672                         |
| Transportation<br>equipment                      | 688,445               | 317,762               | 224,100                         |
| Other  | 4,666,240             | 1,635,876             | 828,880                         |
| Total  | 75,619,076            | 8,174,751             | 6,004,142                       |

Continued

Table TRANS 32. Concluded.

| Product  | Louisville<br>and Nashville | St Louis and<br>San Francisco |
|--|-----------------------------|-------------------------------|
| Farm products                                    | 234,641                     | 2,945                         |
| Nonmetallic minerals<br>except fuels             | 763,129                     | 65,280                        |
| Food and kindred<br>products                     | 747,465                     | 427,465                       |
| Lumber and wood<br>products, except<br>furniture | 1,125,305                   | 346,907                       |
| Pulp and paper                                   | 519,993                     | 155,133                       |
| Chemicals  | 2,053,133                   | 39,183                        |
| Petroleum and coal<br>products                   | 213,434                     | 893                           |
| Stone, clay and glass                            | 407,878                     | 42,676                        |
| Primary metal<br>products                        | 57,726                      | 2,507                         |
| Transportation<br>equipment                      | 29,098                      | 165                           |
| Other  | 843,663                     | 24,463                        |
| Total  | 6,999,465                   | 1,108,108                     |



Table TRANS 33. Location and identification of commercial and general aviation airports in 1979 (Florida Department of Transportation 1980a).

| County     | Airport   |
|------------|---|
| Bay        | Panama City-Bay County                                |
| Escambia   | Coastal Fly Service<br>Ferguson<br>Pensacola Regional |
| Franklin   | Carrabelle Flight Strip<br>Apalachicola Municipal     |
| Gulf       | N.D.  |
| Okaloosa   | Bob Sikes<br>Destin-Fort Walton Beach<br>Eglin A.F.B. |
| Santa Rosa | Milton T. Field<br>Fort Walton Beach                  |
| Walton     | DeFuniak Springs                                      |

Table TRANS 34. Number of airports by type in 1980 (Florida Department of Transportation 1980a).

| County     | Commercial | General Aviation |
|------------|------------|------------------|
| Bay        | 1          | 0                |
| Escambia   | 1          | 2                |
| Franklin   | 0          | 2                |
| Gulf       | 0          | 0                |
| Okaloosa   | 1          | 2                |
| Santa Rosa | 0          | 2                |
| Walton     | 0          | 1                |
| Region     | 3          | 9                |

Table TRANS 35. Commercial airport passenger, cargo and mail in 1960, 1965, 1970, 1975, 1978 and 1979 (Florida Department of Transportation 1980a).

| Year and county                       | Enplaned passengers | Total cargo (tons) | Mail (tons) |
|---------------------------------------|---------------------|--------------------|-------------|
| <u>1960</u>                           |                     |                    |             |
| Bay County<br>Panama City-Bay County  | 13,369              | 25 .80             | 26 .00      |
| Escambia County<br>Pensacola Regional | 47,263              | 165 .70            | 147 .40     |
| Okaloosa County<br>Eglin A.F.B.       | 11,798              | 43 .20             | 14 .30      |
| <u>1965</u>                           |                     |                    |             |
| Bay County<br>Panama City-Bay County  | 29,489              | 61 .94             | 84 .82      |
| Escambia County<br>Pensacola Regional | 86,671              | 181 .38            | 241 .63     |
| Okaloosa County<br>Eglin A.F.B.       | 26,103              | 110 .39            | 38 .30      |
| <u>1970</u>                           |                     |                    |             |
| Bay County<br>Panama City-Bay County  | 42,793              | 162 .00            | 137 .00     |
| Escambia County<br>Pensacola Regional | 159,682             | 722 .00            | 753 .00     |
| Okaloosa County<br>Eglin A.F.B.       | 70,484              | 593 .00            | 111 .00     |

Continued

Table TRANS 35. Concluded.

| Year and county        | Enplaned passengers | Total cargo (tons) | Mail (tons) |
|------------------------|---------------------|--------------------|-------------|
| <u>1975</u>            |                     |                    |             |
| Bay County             |                     |                    |             |
| Panama City-Bay County | 69,341              | 149.87             | 46.22       |
| Escambia County        |                     |                    |             |
| Pensacola Regional     | 180,341             | 413.60             | 1,083.51    |
| Okaloosa County        |                     |                    |             |
| Eglin A.F.B.           | 96,113              | 270.22             | 79.36       |
| <u>1978</u>            |                     |                    |             |
| Bay County             |                     |                    |             |
| Panama City-Bay County | 82,118              | 140.46             | 63.66       |
| Escambia County        |                     |                    |             |
| Pensacola Regional     | 246,558             | 478.70             | 855.17      |
| Okaloosa County        |                     |                    |             |
| Eglin A.F.B.           | 116,738             | 300.03             | 1.10        |
| <u>1979</u>            |                     |                    |             |
| Bay County             |                     |                    |             |
| Panama City-Bay County | 75,564              | N.D.               | N.D.        |
| Escambia County        |                     |                    |             |
| Pensacola Regional     | 270,004             | N.D.               | N.D.        |
| Okaloosa County        |                     |                    |             |
| Eglin A.F.B.           | 115,887             | N.D.               | N.D.        |

Table TRANS 36. Total air carrier operations<sup>a</sup>, first and second level<sup>b</sup>, for Florida commercial airports for 1970, 1975 and 1980 (Federal Aviation Administration ca, 1971, ca. 1976, ca. 1981; Florida Department of Transportation 1981a).

| Airport     | Year   |                    |       |
|-------------|--------|--------------------|-------|
|             | 1970   | 1975               | 1980  |
| Pensacola   | 10,043 | 8,505              | 9,222 |
| Panama City | 6,544  | 7,884              | 4,566 |
| Eglin       | 7,790  | 9,747 <sup>c</sup> | 6,330 |

<sup>a</sup> Landings and take-offs.

<sup>b</sup> Includes international carriers (Pan Am, TWA, Eastern, National). Data does not include commuter flights.

<sup>c</sup> 1974 data.

Table TRANS 37. Commercial airport facility characteristics in 1980 (Florida Department of Transportation 1981a).

| Facility               | Panama City-<br>Bay County | Pensacola<br>Regional | Eglin<br>A.F.B. |
|------------------------|----------------------------|-----------------------|-----------------|
| Storage                |                            |                       |                 |
| T-type hangars         | 15                         | 20                    | 0               |
| Storage                |                            |                       |                 |
| conventional hangars   | 5                          | 6                     | 0               |
| Storage                |                            |                       |                 |
| tie down positions     | 50                         | 150                   | 0               |
| Heliport base          | none                       | none                  | none            |
| Sea plane base         | none                       | none                  | none            |
| # jets based           | 0                          | 0                     | 0               |
| # total based aircraft | 42                         | 108                   | 14              |
| # military local       | 1,047                      | 16,446                | 45,000          |
| # military itinerant   | 3,393                      | 3,492                 | 45,000          |
| # air carrier          | 6,945                      | 9,958                 | 9,855           |
| # air taxi             | 3,063                      | 1,930                 | 2,000           |
| Total runways          | 4                          | 4                     | 4               |
| Runway # and lengths   | #04 4,800 ft               | #07 6,000 ft          | #01 10,000 ft   |
|                        | #22 4,800 ft               | #25 6,000 ft          | #19 10,000 ft   |
|                        | #14 6,000 ft               | #16 3,000 ft          | #12 12,000 ft   |
|                        | #32 6,000 ft               | #34 3,000 ft          | #30 12,000 ft   |

Table TRANS 38. Commercial airport based aircraft history and projections for 1970, 1974, 1980, 1985 and 1990 (Florida Department of Transportation 1976a).

| Airport                | Actual |      | Forecast |      |      |
|------------------------|--------|------|----------|------|------|
|                        | 1970   | 1974 | 1980     | 1985 | 1990 |
| Panama City-Bay County | 45     | 88   | 90       | 106  | 142  |
| Pensacola Regional     | 73     | 98   | 110      | 171  | 245  |
| Eglin A.F.B.           | N.D.   | 4    | 4        | 4    | 4    |

Table TRANS 39. Commercial airport annual aircraft movements history and projections for 1970, 1974, 1980, 1985 and 1990 (Florida Department of Transportation 1976a).

| Airport                | Actual  |        | Forecast |         |         |
|------------------------|---------|--------|----------|---------|---------|
|                        | 1970    | 1974   | 1980     | 1985    | 1990    |
| Panama City-Bay County | N.D.    | 80,800 | 122,100  | 176,700 | 247,600 |
| Pensacola Regional     | 153,468 | 73,800 | 165,900  | 276,300 | 415,100 |
| Eglin A.F.B.           | N.D.    | N.D.   | 8,500    | 8,400   | 8,400   |

Table TRANS 40. Commercial airports, air carrier enplanements, history and projections for 1960<sup>a</sup>, 1965, 1970, 1974, 1980, 1985 and 1990 (Florida Department of Transportation 1976a).

| Airport                | 1960   | 1965   | 1970    | 1974    | 1980     | 1985     | 1990      |
|------------------------|--------|--------|---------|---------|----------|----------|-----------|
| Panama City-Bay County | 13,369 | 29,489 | 47,760  | 74,046  | 137,1000 | 205,1000 | 288,200   |
| Pensacola Regional     | 47,263 | 86,671 | 165,580 | 187,239 | 400,000  | 650,000  | 1,000,000 |
| Eglin A.F.B.           | 11,798 | 26,102 | 69,700  | 96,616  | 172,700  | 261,600  | 372,300   |

<sup>a</sup> No data prior to 1960.

Table TRANS 41. Florida road mileage as of 31 December 1971 (Florida Department of Transportation 1972).

| County     | Interstate<br>(mi) | Other state<br>highway systems | Total state<br>highway systems |
|------------|--------------------|--------------------------------|--------------------------------|
| Bay        | 0                  | 201,446                        | 201,446                        |
| Escambia   | 21,730             | 213,579                        | 235,309                        |
| Franklin   | 0                  | 109,656                        | 109,656                        |
| Gulf       | 0                  | 93,182                         | 93,182                         |
| Okaloosa   | 25,192             | 179,492                        | 204,684                        |
| Santa Rosa | 25,916             | 222,483                        | 248,399                        |
| Walton     | 11,676             | 206,288                        | 217,964                        |
| Region     | 84,514             | 1,226,126                      | 1,310,640                      |
| Florida    | 850,726            | 11,035,696                     | 12,157,775                     |



Table TRANS 42. Florida road mileage as of 31 December 1975 (Florida Department of Transportation 1976b).

| County     | Interstate<br>(mi) | Other state<br>highway systems | Total state<br>highway systems |
|------------|--------------------|--------------------------------|--------------------------------|
| Bay        | 0                  | 207 .8                         | 207 .8                         |
| Escambia   | 21 .7              | 194 .0                         | 215 .7                         |
| Franklin   | 0                  | 109 .7                         | 109 .7                         |
| Gulf       | 0                  | 93 .2                          | 93 .2                          |
| Okaloosa   | 25 .2              | 180 .2                         | 205 .4                         |
| Santa Rosa | 25 .9              | 215 .7                         | 241 .6                         |
| Walton     | 27 .5              | 206 .3                         | 233 .8                         |
| Region     | 100 .3             | 1,206 .9                       | 1,307 .2                       |
| Florida    | 996 .3             | 10,774 .8                      | 12,098 .6                      |

| County     | Other<br>(county and city maintained) | Total mi<br>in county |
|------------|---------------------------------------|-----------------------|
| Bay        | 1,100 .0                              | 1,430 .7              |
| Escambia   | 1,324 .1                              | 1,539 .8              |
| Franklin   | 278 .2                                | 470 .2                |
| Gulf       | 262 .8                                | 356 .0                |
| Okaloosa   | 1,216 .5                              | 1,421 .9              |
| Santa Rosa | 1,017 .2                              | 1,412 .0              |
| Walton     | 963 .3                                | 1,197 .1              |
| Region     | 6,162 .1                              | 7,827 .7              |
| Florida    | 85,532 .4                             | 100,351 .9            |

Table TRANS 43. Florida road mileage as of 31 December 1979 (Florida Department of Transportation 1980e).

| County     | Interstate<br>(mi) | Other state<br>highway systems | Total state<br>highway systems |
|------------|--------------------|--------------------------------|--------------------------------|
| Bay        | 0                  | 189.6                          | 189.6                          |
| Escambia   | 21.7               | 222.2                          | 243.9                          |
| Franklin   | 0                  | 87.4                           | 87.4                           |
| Gulf       | 0                  | 84.4                           | 84.4                           |
| Okaloosa   | 25.2               | 171.0                          | 196.2                          |
| Santa Rosa | 25.9               | 177.7                          | 203.6                          |
| Walton     | 27.5               | 196.4                          | 223.9                          |
| Region     | 100.3              | 1,128.7                        | 1,229.0                        |
| Florida    | 1,125.2            | 10,216.8                       | 11,669.1                       |

| County     | Other<br>(county and city maintained) | Total mi<br>in county |
|------------|---------------------------------------|-----------------------|
| Bay        | 1,334.8                               | 1,524.4               |
| Escambia   | 1,712.1                               | 1,956.0               |
| Franklin   | 372.8                                 | 460.2                 |
| Gulf       | 203.9                                 | 288.3                 |
| Okaloosa   | 1,267.0                               | 1,463.2               |
| Santa Rosa | 1,340.9                               | 1,544.5               |
| Walton     | 996.1                                 | 1,220.0               |
| Region     | 7,227.6                               | 8,456.6               |
| Florida    | 83,348.7                              | 95,017.8              |

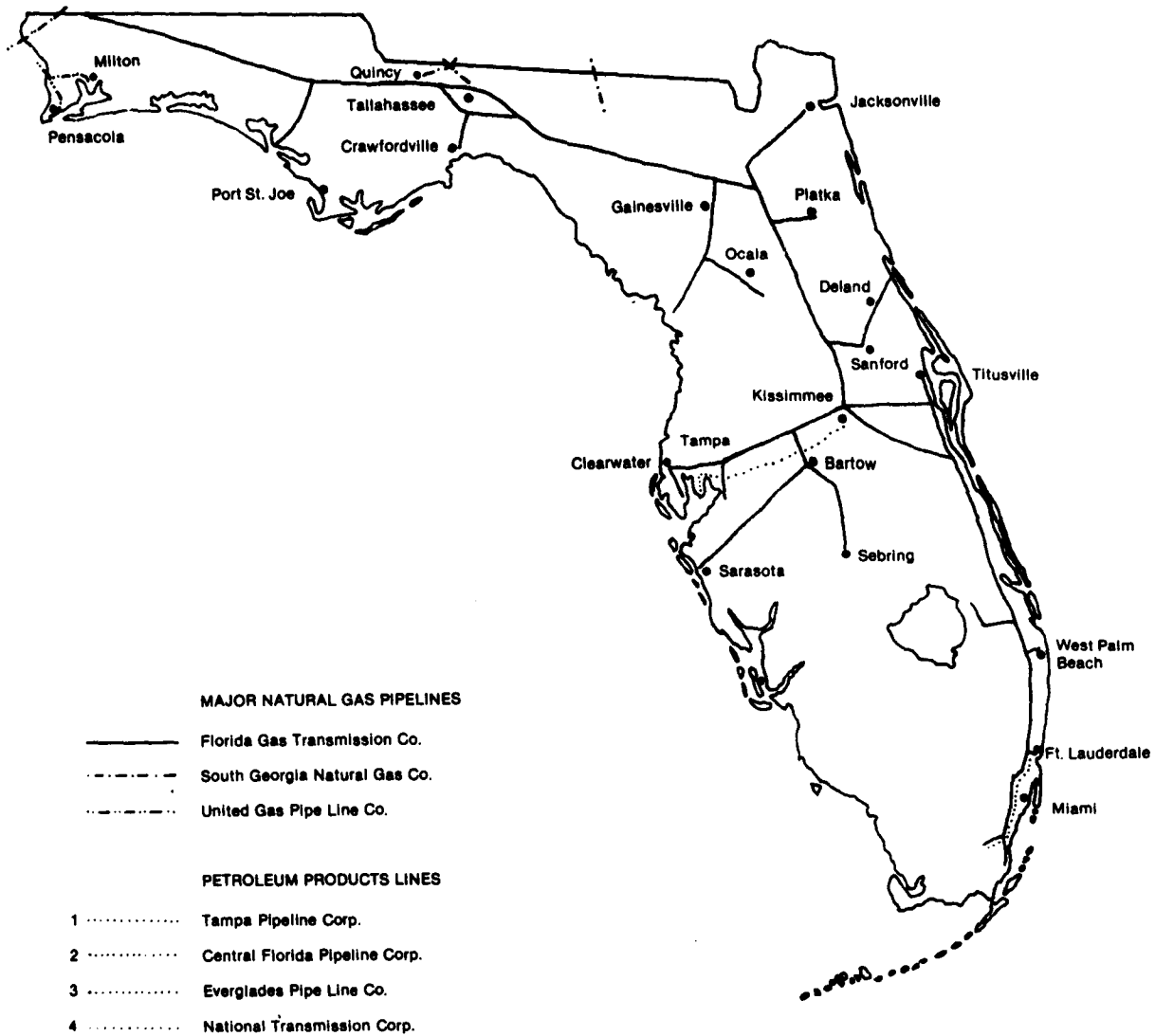


Figure 6. Pipelines in Florida (Florida Department of Transportation 1980b).

Table TRANS 44. Total number of motor vehicle license tags<sup>a</sup> sold for 1955, 1960, 1965, 1970-71, 1975-76 and 1979-80 (Florida Department of Highway Safety and Motor Vehicles 1979, 1980).

|            | 1955      | 1960      | 1965      | 1970-71   | 1975-76   | 1979-80    |
|------------|-----------|-----------|-----------|-----------|-----------|------------|
| Bay        | 23,350    | 32,982    | 39,084    | 54,846    | 97,675    | 89,900     |
| Escambia   | 58,747    | 81,834    | 98,145    | 129,119   | 217,502   | 204,767    |
| Franklin   | 1,824     | 2,622     | 2,996     | 3,631     | 4,984     | 5,754      |
| Gulf       | 3,582     | 4,542     | 5,035     | 6,036     | 7,962     | 8,358      |
| Okaloosa   | 15,658    | 27,201    | 39,223    | 58,624    | 92,641    | 102,424    |
| Santa Rosa | 8,385     | 13,099    | 17,456    | 23,723    | 41,737    | 45,568     |
| Walton     | 6,049     | 7,036     | 8,217     | 10,290    | 13,956    | 14,906     |
| Region     | 117,595   | 169,316   | 210,156   | 286,269   | 476,457   | 471,677    |
| Florida    | 1,800,969 | 2,703,881 | 3,439,211 | 4,875,493 | 8,218,658 | 10,180,656 |

<sup>a</sup>Includes passenger vehicles, buses, trucks, trailers, recreational vehicles, motor cycles and mobile homes.

Table TRANS 45. Florida pipeline volumes in tons per day and annually by Department of Transportation District for 1970, 1972, 1973 and 1974-75 (Florida Department of Transportation 1980c).

|              | 1970      | 1972      | 1973      | 1974      | 1975                |
|--------------|-----------|-----------|-----------|-----------|---------------------|
| District I   | 3,443     | 3,440     | 3,439     | 3,225     | 2,829               |
| District II  | 2,408     | 2,068     | 1,745     | 1,902     | 1,589               |
| District III | 6,301     | 3,396     | 3,130     | 3,101     | 2,625               |
| District IV  | 6,906     | 7,608     | 7,152     | 6,818     | 5,965               |
| District V   | 968       | 3,520     | 3,789     | 4,217     | 3,867               |
| Florida      | 20,026    | 20,032    | 19,255    | 19,263    | 24,856 <sup>a</sup> |
| Annual       | 7,309,490 | 7,311,680 | 7,028,075 | 7,031,105 | 9,072,440           |

<sup>a</sup> Includes 7,981 tons per day delivered as exchange and transport and to compressor stations.

Table TRANS 46. Florida pipeline mileage in 1975 (Florida Department of Transportation 1980b).

| Pipeline                          | mi             |
|-----------------------------------|----------------|
| <b>Natural gas lines:</b>         |                |
| Florida Gas Transmission          | 2,482.8        |
| Florida Gas (distribution)        | 2,212.0        |
| South Georgia Natural Gas Co.     | 88.1           |
| United Gas Pipe Line Co.          | 117.0          |
| <b>Total</b>                      | <b>4,899.9</b> |
| <b>Petroleum products lines:</b>  |                |
| Everglades Pipe Line Co.          | 35.0           |
| National Transmission Corp.       | 23.5           |
| Central Florida Pipeline Corp.    | 84.6           |
| Tampa Pipeline                    | 10.6           |
| <b>Total</b>                      | <b>153.7</b>   |
| <b>Crude oil collector lines:</b> |                |
| Sunniland Pipeland Co.            | 200.0          |
| Exxon Pipeline Co. (Jay)          | 30.0           |
| South Florida Gathering Lines     | 75.0           |
| <b>Total</b>                      | <b>305.0</b>   |
| <b>Grand Total</b>                | <b>5,358.6</b> |

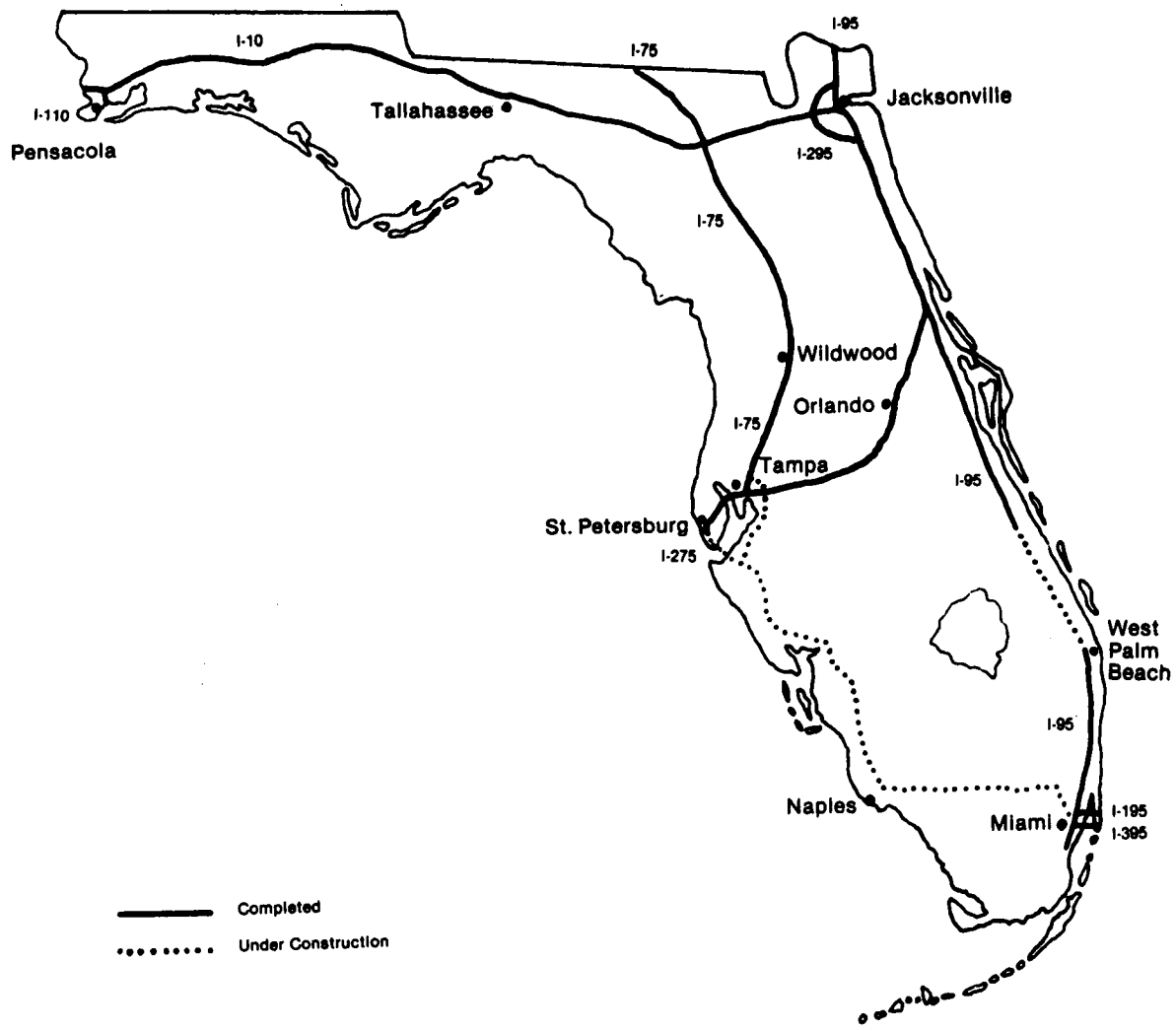


Figure 7. Florida highways (Florida Department of Transportation 1978b).

Table TRANS 47. Roadway characteristics and volume range of average daily traffic in 1965 and 1977 ( Florida Department of Transportation, Division of Transportation Planning ca. 1981c, ca. 1981d).

| County   | Road     | Direction | Minimum width<br>ft (meters) | Traffic volume range |                  | Capacity level C |
|----------|----------|-----------|------------------------------|----------------------|------------------|------------------|
|          |          |           |                              | 1965                 | 1977             |                  |
| Bay      | SR-20    | EW.       | 24 ( 7.32)                   | 1,300 to 1,300       | 500 to 2,700     | 9,400            |
|          | SR-77    | NS.       | 24 ( 7.32)                   | 1,600 to 4,000       | 3,300 to 10,100  | 9,400            |
|          | SR-79    | NS.       | 24 ( 7.32)                   | 700 to 1,100         | 1,300 to 2,000   | 9,400            |
|          | U.S. 98  | EW.       | 22 ( 6.71)                   | 2,000 to 10,800      | 11,600 to 20,300 | 8,800            |
|          | U.S. 231 | NS.       | 48 (14.63)                   | 1,500 to 4,000       | 3,200 to 12,100  | 29,200           |
| Escambia | SR-97    | NS.       | 20 ( 6.10)                   | 1,500 to 2,000       | 1,300 to 3,300   | 8 100            |
|          | U.S. 29  | NS.       | 24 ( 7.32)                   | N.A.                 | 5,600 to 37,900  | 9 400            |
|          | U.S. 90  | EW.       | 24 ( 7.32)                   | 5,200 to 20,600      | 800 to 12,500    | 9,400            |
|          | U.S. 98  | EW.       | 20 ( 6.10)                   | 2,400 to 12,700      | 6,200 to 28,900  | 8,100            |
|          | I-10     | EW.       | 48 (14.63)                   | 900 to 3,100         | 10,200 to 13,200 | 29,200           |
| Franklin | SR-65    | NS.       | 18 ( 5.49)                   | 200 to 200           | 500 to 500       | 7,100            |
|          | SR-67    | NS.       | 18 ( 5.49)                   | N.A.                 | 500 to 500       | 7,100            |
|          | U.S. 98  | EW.       | 20 ( 6.10)                   | 1,000 to 1,700       | 1,300 to 3,100   | 8,100            |
|          | U.S. 319 | NS.       | 24 ( 7.32)                   | 400 to 400           | 700 to 700       | 9,400            |
| Gulf     | SR-22    | EW.       | 20 ( 6.10)                   | 500 to 1,700         | 1,800 to 1,800   | 8,100            |
|          | SR-71    | NS.       | 22 ( 6.71)                   | 1,300 to 1,300       | 1,600 to 3,000   | 8,800            |
|          | SR-386   | EW.       | 18 ( 5.49)                   | 50 to 300            | 500 to 500       | 7,100            |
|          | U.S. 98  | EW.       | 24 ( 7.32)                   | 900 to 6,000         | 2,300 to 7,100   | 9,400            |
| Okaloosa | SR-4     | EW.       | 20 ( 6.10)                   | 500 to 500           | 800 to 800       | 8,100            |
|          | SR-85    | NS.       | 24 ( 7.32)                   | 1 500 to 4,000       | 2,200 to 7,000   | 9,400            |
|          | SR-285   | NS.       | 18 ( 5.49)                   | 900 to 2,200         | 1,300 to 1,300   | 7,100            |
|          | U.S. 90  | EW.       | 24 ( 7.32)                   | 4,100 to 6,500       | 1,300 to 7,000   | 9,400            |

Table TRANS 47. Concluded.

| County     | Road     | Direction | Minimum width<br>ft (meters) | Traffic volume range |                 | Capacity level C |
|------------|----------|-----------|------------------------------|----------------------|-----------------|------------------|
|            |          |           |                              | 1965                 | 1977            |                  |
| Okaloosa   | U.S. 98  | EW.       | 24 ( 7.32)                   | 4,000 to 10,100      | 9,100 to 21,400 | 9,400            |
|            | I-10     | EW.       | 48 (14.63)                   | N.A.                 | 5,600 to 6,800  | 29,200           |
| Santa Rosa | SR-4     | EW.       | 20 ( 6.10)                   | 500 to 1,800         | 800 to 1,600    | 8,100            |
|            | SR-87    | ES.       | 20 ( 6.10)                   | 900 to 5,900         | 1,500 to 6,700  | 8,100            |
|            | SR-89    | NS.       | 20 ( 6.10)                   | 700 to 900           | 2,100 to 3,000  | 8,100            |
|            | U.S. 90  | EW.       | 24 ( 7.32)                   | 4,000 to 11,800      | 3,300 to 19,000 | 9,400            |
|            | U.S. 98  | EW.       | 48 (14.63)                   | 3 700 to 12,700      | 5,000 to 28,900 | 29,200           |
|            | I-10     | EW.       | 48 (14.63)                   | N.A.                 | 6,200 to 13,200 | 29,200           |
| Walton     | SR-2     | EW.       | 20 ( 6.10)                   | 100 to 200           | 500 to 400      | 8,100            |
|            | SR-20    | EW.       | 20 ( 6.10)                   | 3,000 to 4,400       | 1,300 to 1,700  | 8,100            |
|            | SR-81    | NS.       | 24 ( 7.32)                   | 300 to 500           | 600 to 800      | 9,400            |
|            | SR-83    | NS.       | 20 ( 6.10)                   | 300 to 1,900         | 500 to 5,100    | 8,100            |
|            | U.S. 90  | EW.       | 24 ( 7.32)                   | 3,000 to 4,400       | 1,600 to 2,100  | 9,400            |
|            | U.S. 98  | EW.       | 24 ( 7.32)                   | 2,200 to 2,700       | 3,700 to 5,100  | 9,400            |
|            | U.S. 331 | NS.       | 24 ( 7.32)                   | 1,000 to 2,100       | 1,100 to 3,400  | 9,400            |
|            | I-10     | EW.       | 48 (14.63)                   | N.A.                 | 3,100 to 6,100  | 29,200           |



Table TRANS 48. Interstate natural gas pipeline statistics in 1972-79 (U.S. Federal Power Commission ca. 1973d, ca. 1974d, ca. 1975d, ca. 1976c; U.S. Department of Energy ca. 1978, ca. 1979, ca. 1980, ca. 1981).

| Year   | Total gas receipts | Thousands ft <sup>3</sup> |                      | Mi of transmission pipe |
|--|--------------------|---------------------------|----------------------|-------------------------|
|  |                    | Total gas sales           | Total gas deliveries |                         |
| Florida Gas Transmission Co.<br>(FL, LA, TX, MS, AL) |                    |                           |                      |                         |
| 1972   | 270,492,577        | 129,051,889               | 270,498,878          | 4,258                   |
| 1973   | 278,792,091        | 119,597,895               | 278,533,177          | 4,267                   |
| 1974   | 260,933,617        | 113,741,953               | 260,872,810          | 4,266                   |
| 1975   | 221,090,454        | 89,701,528                | 220,498,943          | 4,266                   |
| 1976   | 222,077,746        | 83,870,423                | 222,376,033          | 4,267                   |
| 1977   | 304,576,292        | 111,838,105               | 304,175,948          | 4,274                   |
| 1978   | 325,830,621        | 133,648,528               | 325,551,497          | 4,279                   |
| 1979   | 330,992,810        | 167,483,076               | 333,353,372          | 4,286                   |
| South Georgia Natural Gas Co.<br>(AL, FL, GA)        |                    |                           |                      |                         |
| 1972   | 26,564,543         | 26,264,664                | 26,443,883           | 769                     |
| 1973   | 26,870,344         | 26,346,142                | 26,546,942           | 769                     |
| 1974   | 27,017,390         | 26,688,104                | 26,850,936           | 769                     |
| 1975   | 26,416,536         | 26,251,415                | 26,358,846           | 769                     |
| 1976   | 23,417,633         | 23,358,396                | 23,407,068           | 770                     |
| 1977   | 23,086,383         | 22,923,689                | 22,970,749           | 769                     |
| 1978   | 26,034,367         | 26,011,046                | 26,097,197           | 649                     |
| 1979   | 34,527,474         | 34,477,576                | 34,691,545           | 767                     |

Continued

Table TRANS 48. Concluded.

| Year  | Total gas receipts | Thousands ft <sup>3</sup> |                      | Ml of transmission pipe |
|---|--------------------|---------------------------|----------------------|-------------------------|
|   |                    | Total gas sales           | Total gas deliveries |                         |
| United Gas Pipeline Co.<br>(AL, FL, LA, MS, TX) |                    |                           |                      |                         |
| 1972  | 1,619,737,415      | 1,206,494,644             | 1,626,340,487        | 7,308                   |
| 1973  | 1,578,117,222      | 1,075,134,897             | 1,588,667,615        | 7,308                   |
| 1974  | 1,423,021,563      | 958,252,704               | 1,421,077,322        | 7,339                   |
| 1975  | 1,443,210,078      | 873,133,887               | 1,436,922,889        | 7,309                   |
| 1976  | 1,440,613,038      | 824,831,820               | 1,430,264,088        | 5,784                   |
| 1977  | 1,546,132,684      | 837,201,098               | 1,536,942,255        | 7,247                   |
| 1978  | 1,566,555,814      | 823,576,366               | 1,559,374,027        | 7,267                   |
| 1979  | 1,880,152,581      | 934,856,538               | 1,869,313,722        | 7,287                   |

Table TRANS 49. Miles of gas transmission pipe by diameter inches in 1979 (U.S. Department of Energy ca. 1981).

| Company                          | 0-5<br>inches | 5.1-10<br>inches | 10.1-15<br>inches | 15.1-20<br>inches | 20.1-25<br>inches | 25.1-30<br>inches | over 30<br>inches |
|----------------------------------|---------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Florida Gas Transmission Co.     | 485           | 917              | 325               | 569               | 1,204             | 786               | 0                 |
| South Georgia Natural<br>Gas Co. | 295           | 266              | 206               | 0                 | 0                 | 0                 | 0                 |
| United Gas Pipeline Co.          | 693           | 1,655            | 937               | 2,122             | 479               | 1,306             | 95                |

Table TRANS 50. Average daily traffic at Department of Transportation permanent traffic recording stations (Florida Department of Transportation, Division of Transportation Planning ca. 1981c).

| Station | Location                         | County   | 1965  | 1970   | 1975   | 1980   | <u>Percent change</u><br><u>1975-1980</u> |
|---------|----------------------------------|----------|-------|--------|--------|--------|---|
| 21      | U.S. 98, at<br>Phillips Inlet    | Bay      | 2,685 | 3,480  | 4,365  | 3,610  | -17.3                                     |
| 48      | U.S. 90, at<br>Perdido River     | Escambia | 5,190 | 1,790  | 1,615  | 1,878  | 16.3                                      |
| 51      | SR-83, N. of<br>DeFuniak Springs | Walton   | 1,155 | 1,490  | 1,775  | 1,765  | -0.6                                      |
| 53      | U.S. 231, 3 mi S.<br>of SR-20    | Bay      | 2,645 | 3,745  | N.A.   | 5,235  | N.A.                                      |
| 60      | U.S. 98, 5 mi S.<br>of U.S. 319  | Franklin | 1,045 | 1,360  | 1,875  | 1,835  | -2.1                                      |
| 82      | U.S. 29, N. of U.S. 90           | Escambia | N.A.  | 14,530 | 13,685 | 9,724  | -28.9                                     |
| 122     | U.S. 90, 2 mi W.<br>of SR-85     | Okaloosa | N.A.  | 6,320  | 5,400  | 6,126  | 13.4                                      |
| 156     | I-10, 1.5 mi W.<br>of U.S. 90    | Escambia | N.A.  | 5,352  | 8,720  | 10,940 | 25.5                                      |
| 159     | U.S. 29, N. of<br>U.S. 90A       | Escambia | N.A.  | N.A.   | N.A.   | 17,745 | N.A.                                      |

RECREATION AND TOURISM (R/T)

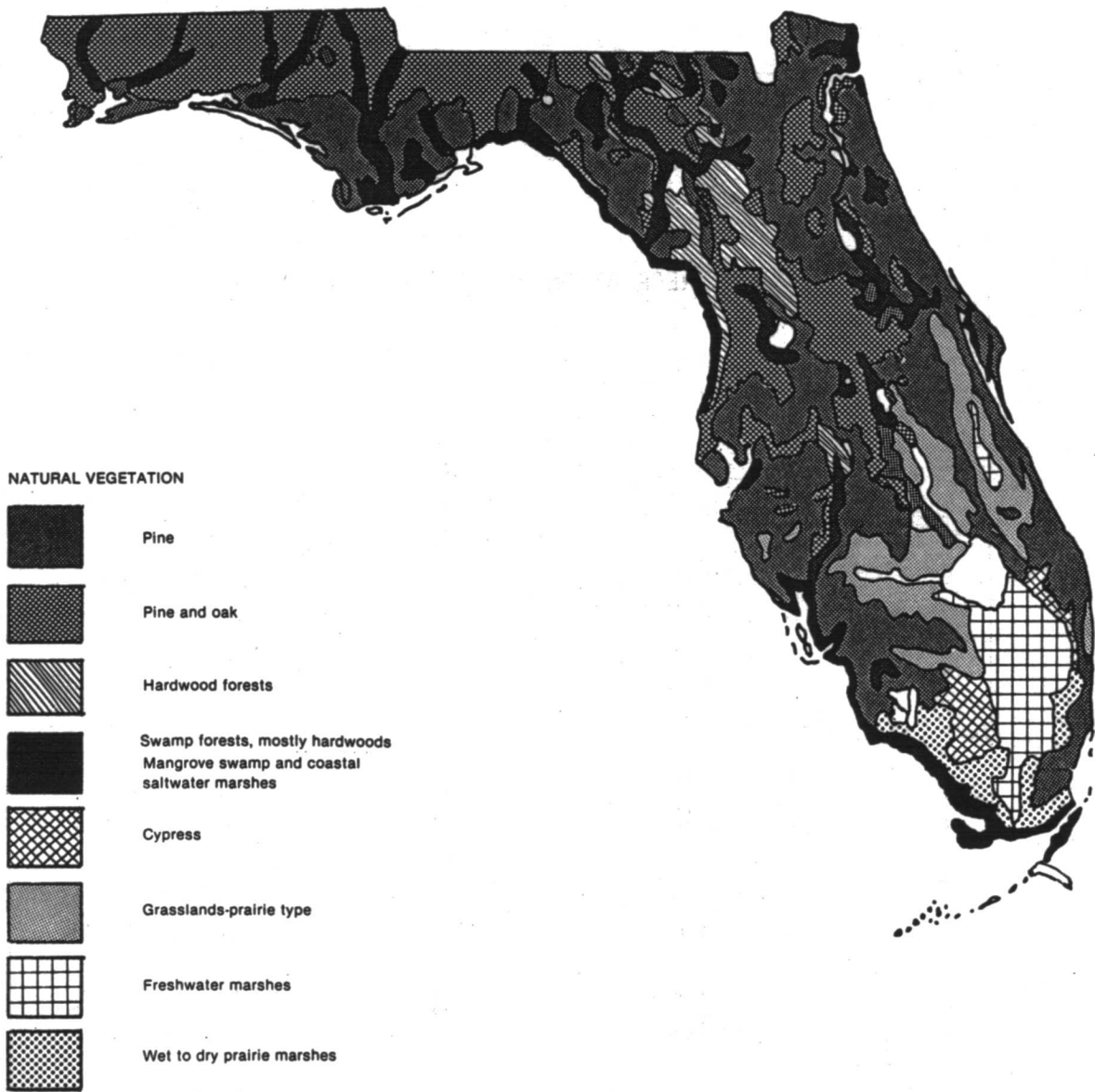


Figure 8. Natural vegetation of Florida (Wood and Fernald 1974).

Table R/T 1. Average temperatures<sup>a</sup> (°F) in 1955 (National Oceanic and Atmospheric Administration 1956).

| County     | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Bay        | 53.0 | 58.0 | 65.5 | 70.5 | 76.4 | 76.7 | 80.6 | 81.8 | 79.6  | 67.2 | 58.5 | 54.3 |
| Escambia   | 52.5 | 57.0 | 64.3 | 70.6 | 77.2 | 78.5 | 81.6 | 82.6 | 80.9  | 68.8 | 59.0 | 55.1 |
| Franklin   | 53.3 | 56.8 | 64.1 | 70.5 | 76.6 | 77.5 | 81.1 | 82.0 | 80.2  | 69.9 | 60.6 | 54.5 |
| Gulf       | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D.  | N.D. | N.D. | N.D. |
| Okaloosa   | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D.  | N.D. | N.D. | N.D. |
| Santa Rosa | 51.9 | 55.8 | 64.0 | 69.3 | 75.5 | 76.1 | 80.0 | 81.5 | 78.7  | 65.8 | 58.2 | 53.9 |
| Walton     | 53.1 | 57.6 | 65.6 | 71.5 | 77.3 | 78.5 | 80.4 | 82.0 | 79.3  | 68.0 | 59.2 | 53.8 |

<sup>a</sup> Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.

Table R/T 2. Average temperatures<sup>a</sup> (°F) in 1960 (National Oceanic and Atmospheric Administration 1961).

| County     | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Bay        | 52.3 | 52.4 | 55.4 | 68.5 | 72.3 | 79.5 | 82.0 | 80.7 | 79.1  | 72.0 | 62.7 | 55.9 |
| Escambia   | 50.9 | 51.2 | 54.9 | 68.2 | 71.2 | 80.9 | 83.3 | 81.4 | 78.6  | 71.5 | 61.4 | 50.7 |
| Franklin   | 53.3 | 52.6 | 55.2 | 68.3 | 71.7 | 79.0 | 82.0 | 81.2 | 78.8  | 73.0 | 63.2 | 50.7 |
| Gulf       | 53.5 | 54.0 | 56.6 | 69.6 | 72.5 | 79.6 | 82.4 | 81.1 | 79.3  | 72.4 | 63.2 | 50.9 |
| Okaloosa   | 50.5 | 50.0 | 53.3 | 66.9 | 70.7 | 79.4 | 82.1 | 79.7 | 77.2  | 69.7 | 60.4 | 48.5 |
| Santa Rosa | 50.1 | 50.9 | 53.8 | 67.1 | 70.8 | 78.7 | 82.4 | 79.7 | 77.2  | 69.7 | 60.2 | 49.4 |
| Walton     | 51.6 | 52.2 | 55.2 | 69.6 | 73.2 | 80.5 | 83.0 | 81.2 | 79.1  | 71.6 | 61.5 | 49.8 |

<sup>a</sup> Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.

Table R/T 3. Average temperatures<sup>a</sup> (°F) in 1965 (National Oceanic and Atmospheric Administration 1966).

| County     | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Bay        | 52.7 | 54.1 | 59.2 | 71.3 | 74.6 | 77.9 | 80.2 | 80.3 | 79.4  | 68.3 | 62.5 | 53.3 |
| Escambia   | 52.6 | 52.8 | 57.4 | 70.3 | 74.7 | 78.1 | 80.8 | 80.1 | 78.5  | 68.4 | 63.1 | 53.5 |
| Franklin   | 54.0 | 54.7 | 60.1 | 70.5 | 75.6 | 77.5 | 80.8 | 81.3 | 79.2  | 70.0 | 63.6 | 54.9 |
| Gulf       | 53.8 | 53.8 | 60.6 | 70.1 | 75.5 | 77.5 | 81.6 | 81.5 | 79.6  | 68.5 | 62.7 | 52.8 |
| Okaloosa   | 49.3 | 50.8 | 57.4 | 70.5 | 73.8 | 78.2 | 80.5 | 80.5 | 77.4  | 68.5 | 52.3 | 65.9 |
| Santa Rosa | 53.2 | 53.6 | 58.4 | 70.8 | 7.3  | 77.1 | 80.0 | 79.1 | 76.9  | 67.3 | 62.7 | 52.7 |
| Walton     | 51.0 | 52.1 | 58.2 | 69.6 | 72.8 | 76.1 | 78.0 | 77.8 | 76.4  | 64.8 | 60.6 | 50.9 |

a Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.

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Table R/T 4. Average temperatures<sup>a</sup> (°F) in 1970 (National Oceanic and Atmospheric Administration 1971).

| County     | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Bay        | 45.9 | 50.9 | 60.2 | 70.6 | 75.0 | 79.0 | 81.8 | 81.2 | 80.4  | 71.2 | 54.2 | 56.6 |
| Escambia   | 46.4 | 51.3 | 59.8 | 71.1 | 76.1 | 80.6 | 83.1 | 82.2 | 82.2  | 72.1 | 57.3 | 56.7 |
| Franklin   | 47.5 | 52.1 | 60.7 | 70.8 | 76.2 | 80.3 | 82.3 | 81.6 | 81.4  | 73.6 | 57.5 | 58.0 |
| Gulf       | 46.2 | 51.2 | 60.0 | 71.0 | 76.3 | 78.5 | 81.1 | 81.3 | 80.8  | 71.1 | 54.9 | 56.7 |
| Okaloosa   | 44.8 | 50.6 | 58.0 | 69.0 | 74.3 | 78.6 | 81.0 | 81.7 | 79.8  | 69.3 | 52.4 | 55.2 |
| Santa Rosa | 45.3 | 50.0 | 58.7 | 70.2 | 73.6 | 78.2 | 81.2 | 80.8 | 79.0  | 69.1 | 54.8 | 56.4 |
| Walton     | N.D. | 49.7 | 58.4 | 70.0 | 73.5 | 77.1 | 80.5 | 80.4 | 78.8  | 68.8 | 53.9 | 55.1 |

a Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.



Table R/T 5. Average temperatures<sup>a</sup> (°F) in 1975 (National Oceanic and Atmospheric Administration 1976).

| County     | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Bay        | 54.8 | 58.8 | 59.8 | 65.0 | 75.5 | 79.4 | 79.2 | 80.3 | 75.4  | 69.9 | 60.5 | 51.9 |
| Escambia   | 57.3 | 60.9 | 61.6 | 67.2 | 76.9 | 81.7 | 82.1 | 82.0 | 76.1  | 70.7 | 61.4 | 52.7 |
| Franklin   | 57.2 | 60.2 | 61.3 | 66.5 | 76.7 | 79.9 | 79.3 | 81.1 | 76.6  | 71.8 | 61.7 | 53.5 |
| Gulf       | 57.0 | 60.6 | 61.1 | 66.0 | 77.1 | 80.0 | 79.8 | 81.0 | 75.5  | 70.9 | 60.8 | 52.6 |
| Okaloosa   | 53.3 | 57.4 | 59.1 | 65.1 | 76.0 | 79.2 | 79.8 | 80.5 | 74.9  | 69.1 | 59.3 | 49.3 |
| Santa Rosa | 56.8 | 61.0 | 61.9 | 66.6 | 76.6 | 79.6 | 81.0 | 81.0 | 74.8  | 69.8 | 60.5 | 51.9 |
| Walton     | 55.1 | 59.1 | 59.7 | 65.3 | 76.0 | 79.0 | 79.6 | 80.2 | 73.3  | 68.6 | 59.9 | 51.5 |

<sup>a</sup> Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.

Table R/T 6. Average temperatures<sup>a</sup> (°F) in 1980 (National Oceanic and Atmospheric Administration 1981).

| County     | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Bay        | 53.6 | 49.7 | 59.0 | 65.0 | 73.5 | 79.0 | 83.0 | 81.8 | 80.3  | N.D. | N.D. | N.D. |
| Escambia   | 55.3 | 51.1 | 60.6 | 65.6 | 75.1 | 81.2 | 85.4 | 83.7 | 81.3  | N.D. | N.D. | N.D. |
| Franklin   | 54.3 | 51.0 | 60.8 | 65.4 | 73.5 | 78.7 | 81.9 | 81.9 | 80.4  | N.D. | N.D. | N.D. |
| Gulf       | 55.7 | 51.2 | 62.6 | 66.3 | 74.5 | 79.3 | 82.3 | 81.4 | 81.2  | N.D. | N.D. | N.D. |
| Okaloosa   | 53.3 | 48.6 | 59.7 | 64.0 | 74.0 | 78.7 | 83.5 | 82.2 | 80.7  | N.D. | N.D. | N.D. |
| Santa Rosa | 54.0 | 48.6 | 59.5 | 64.4 | 74.3 | 79.7 | 83.7 | 81.9 | 81.2  | N.D. | N.D. | N.D. |
| Walton     | 53.3 | 49.2 | 60.4 | 64.6 | 73.9 | 78.9 | 83.2 | 81.2 | 79.7  | N.D. | N.D. | N.D. |

<sup>a</sup> Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.

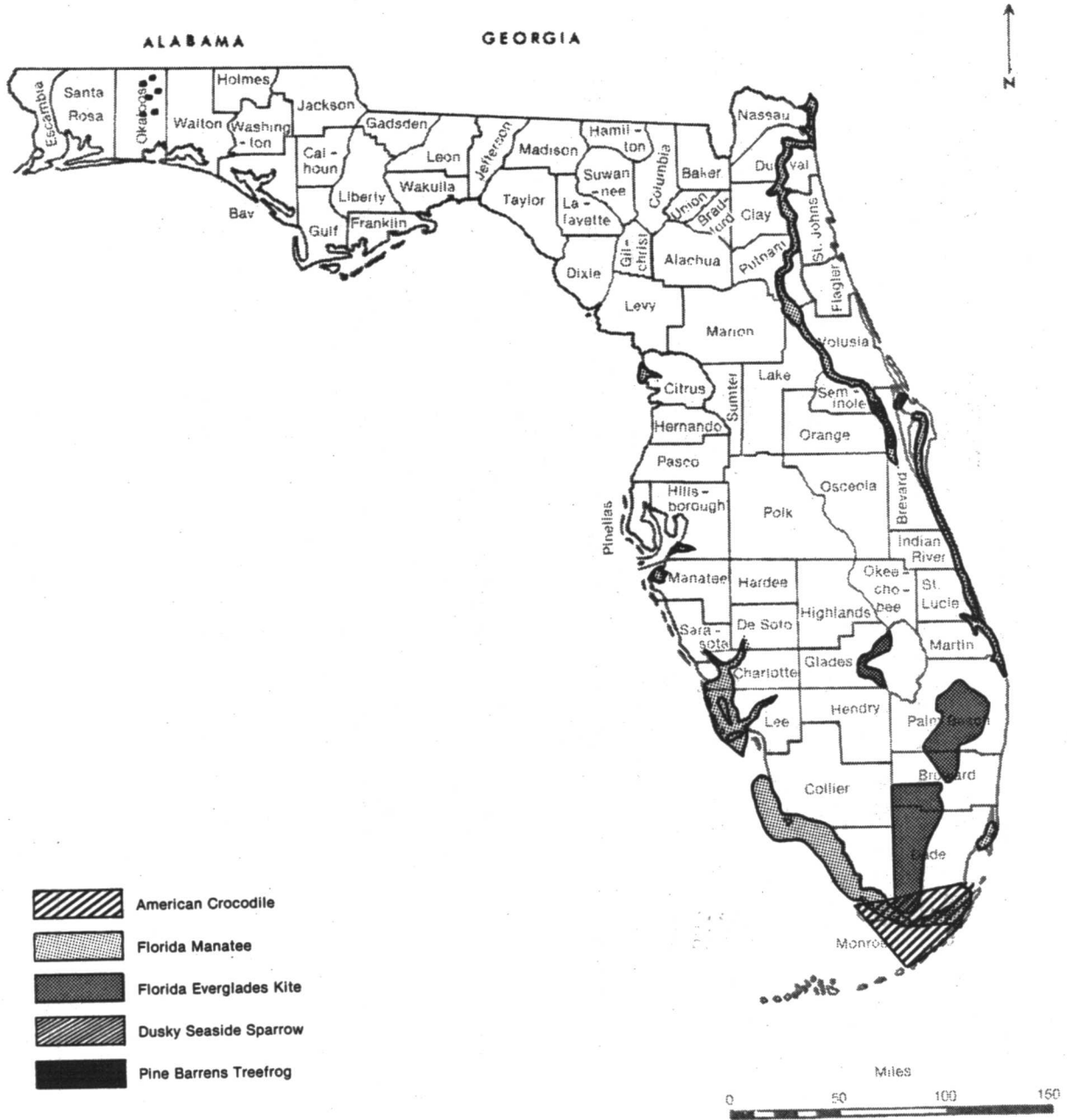


Figure 9. Critical habitats in Florida (Florida Power and Light Co. 1979).

Table R/T 7. Land area and elevation, and climate in 1980 (Florida Department of Commerce, Division of Economic Development, 1980b).

| County     | Land area<br>(mi <sup>2</sup> ) | Elevation<br>(ft) | Average annual<br>rainfall<br>(in) | Average summer<br>temperature<br>(°F) | Average winter<br>temperature<br>(°F) |
|------------|---------------------------------|-------------------|------------------------------------|---------------------------------------|---------------------------------------|
| Bay        | 747                             | 21                | 57.86                              | 81.9 <sup>0</sup>                     | 53.2 <sup>0</sup>                     |
| Escambia   | 665                             | 20                | 58.60                              | 80.9                                  | 53.1                                  |
| Franklin   | 536                             | 0-24              | 58.36                              | 81.7                                  | 53.7                                  |
| Gulf       | 565                             | 15                | 58.36                              | 81.7                                  | 53.7                                  |
| Okaloosa   | 944                             | 4-300             | 63.70                              | 80.3                                  | 51.4                                  |
| Santa Rosa | 1,032                           | 10                | 58.85                              | 80.5                                  | 53.8                                  |
| Walton     | 1,053                           | 266-345           | 65.70                              | 80.8                                  | 52.8                                  |

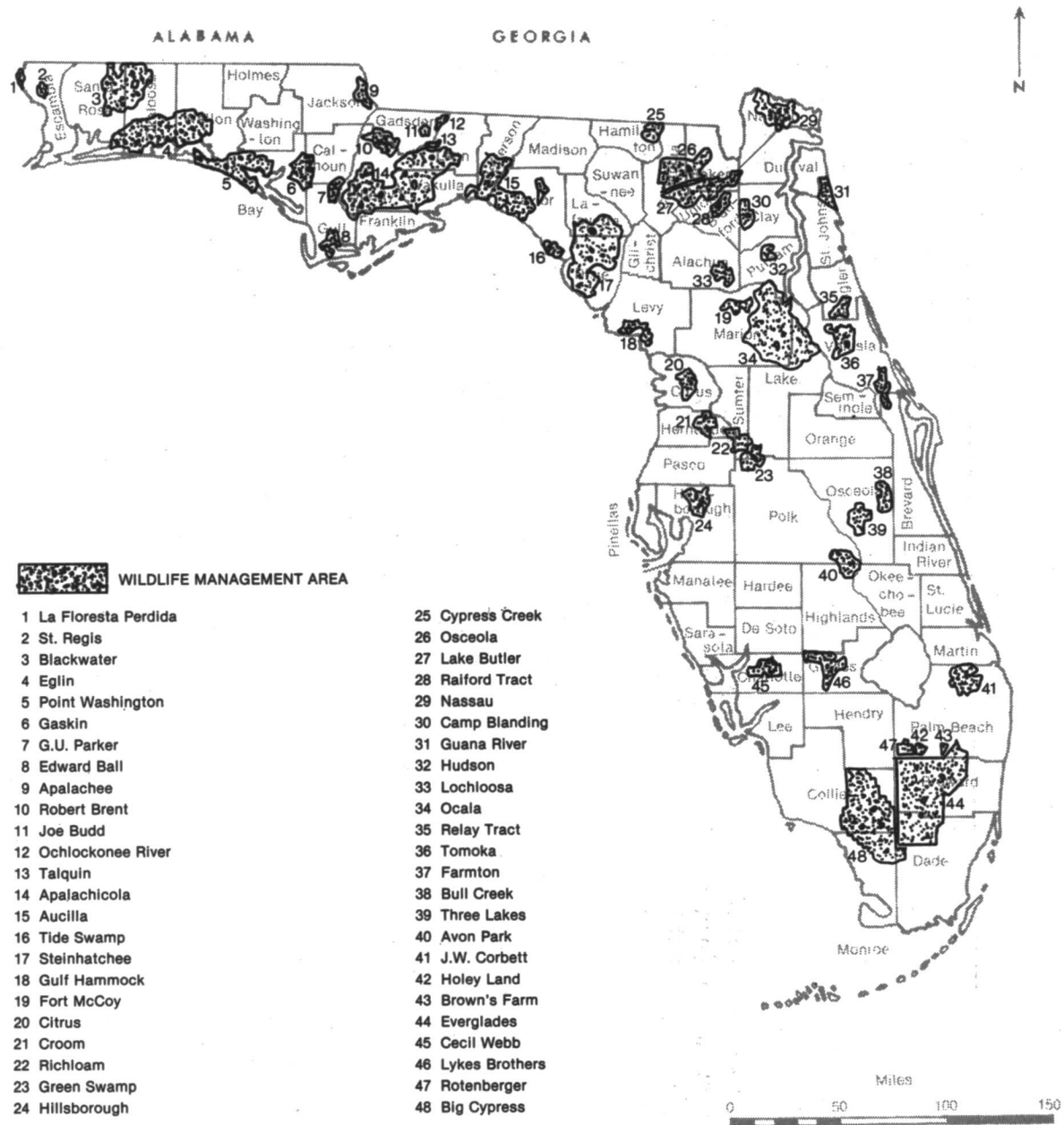


Figure 10. State Wildlife Management Areas (Florida Power and Light Co. 1979).

Table R/T8. Demand, supply, and needs for selected outdoor recreation activities in Bay County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

| Recreational activity                     | Demand  |         |         | Supply                  |                |
|---|---|---------|---------|-------------------------|----------------|
|   | Resident and tourist user occasions (thousands) |         |         | Resource facility units | User occasions |
|   | 1980  | 1985    | 1990    | 1980                    | 1980           |
| Saltwater beach activities                | 4,239.0   | 4,699.6 | 5,172.2 | 19,540 (lin ft)         | 7,819          |
| Freshwater swimming (non-pool)            | 339.0   | 377.2   | 415.2   | 0 (lin ft)              | 0              |
| Saltwater fishing (boat)                  | 572.1   | 636.1   | 700.2   | N.D.                    | N.D.           |
| Saltwater fishing (non-boat)              | 671.4   | 746.7   | 822.0   | 20,191 (lin ft)         | 3,365          |
| Freshwater fishing (boat)                 | 37.3  | 43.4    | 47.9    | N.D.                    | N.D.           |
| Freshwater fishing (non-boat)             | 64.5  | 72.7    | 80.0    | 700 (lin ft)            | 117            |
| Boat ramp use, saltwater                  | 236.5   | 264.2   | 290.9   | 32 (lanes)              | 5,128          |
| Boat ramp use, freshwater                 | 22.6  | 26.3    | 29.0    | 16 (lanes)              | 2,560          |
| Camping, RV <sup>a</sup> trailer          | 496.5   | 548.2   | 603.1   | 2,274 (sites)           | 9,096          |
| Camping, tent                             | 13.8  | 16.1    | 17.1    | 228 (sites)             | 912            |
| Picnicking                                | 384.1   | 427.2   | 470.3   | 212 (tables)            | 1,696          |
| Horseback riding                          | 5.6   | 6.6     | 7.3     | 0 (mi)                  | 0              |
| Nature study                              | 59.2  | 69.0    | 76.2    | 3.3 (mi)                | 825            |
| Hiking                                    | 204.9   | 231.1   | 254.6   | 1.2 (mi)                | 150            |
| Canoeing                                  | 28.5  | 33.2    | 36.7    | 15.0 (mi)               | 0              |
| Bicycle riding                            | 215.9   | 250.2   | 276.1   | 0 (mi)                  | 0              |
| Visiting archaeological, historical sites | 15.4  | 17.9    | 19.7    | 3 (sites)               | 1,261          |

Continued

Table R/T 8. Continued.

| Recreational activity         | Demand  |         |         | Supply                  |                |
|-------------------------------|---|---------|---------|-------------------------|----------------|
|                               | Resident and tourist user occasions (thousands) |         |         | Resource facility units | User occasions |
|                               | 1980  | 1985    | 1990    | 1980                    | 1980           |
| Hunting                       | 75.0  | 86.8    | 95.8    | 152,279 (acres)         | 2,740,803      |
| Golf                          | 117.8   | 132.2   | 145.6   | 201 (holes)             | 5,629          |
| Tennis                        | 153.9   | 175.4   | 193.4   | 43 (courts)             | 946            |
| Baseball, softball            | 43.9  | 51.1    | 56.4    | 39 (fields)             | 3,628          |
| Football, soccer, rugby       | 14.7  | 17.2    | 18.9    | 5 (fields)              | 560            |
| Outdoor racquetball, handball | 2.5   | 2.9     | 3.2     | 0 (courts)              | 0              |
| Outdoor basketball            | 38.2  | 44.5    | 49.2    | 14 (goals)              | 504            |
| Outdoor swimming pool use     | 1,351.8   | 1,494.0 | 1,643.9 | 10 (pools)              | 2,953          |
| Outdoor shuffleboard          | 174.8   | 192.3   | 211.5   | 10 (courts)             | 160            |

Continued

Table R/T 8. Continued.

| Recreational activity                        | Needs          |        |        |
|--|----------------|--------|--------|
|  | User occasions |        |        |
|  | 1980           | 1985   | 1990   |
| Saltwater beach activities                   | 13,188         | 15,470 | 17,812 |
| Freshwater swimming (non-pool)               | 1,680          | 1,869  | 2,058  |
| Saltwater fishing (boat)                     | N.D.           | N.D.   | N.D.   |
| Saltwater fishing (non-boat)                 | 0              | 335    | 708    |
| Freshwater fishing (boat)                    | N.D.           | N.D.   | N.D.   |
| Freshwater fishing (non-boat)                | 203            | 243    | 280    |
| Boat ramp use, saltwater                     | 0              | 0      | 0      |
| Boat ramp use, freshwater                    | 0              | 0      | 0      |
| Camping, RV trailer                          | 0              | 0      | 0      |
| Camping, tent                                | 0              | 0      | 0      |
| Picnicking                                   | 207            | 421    | 634    |
| Horseback riding                             | 28             | 33     | 36     |
| Nature study                                 | 0              | 0      | 0      |
| Hiking                                       | 865            | 995    | 1,112  |
| Canoeing                                     | N.D.           | N.D.   | N.D.   |
| Bicycle riding                               | 1,070          | 1,240  | 1,368  |
| Visiting archaeological,<br>historical sites | 0              | 0      | 0      |

Continued

Table R/T 8. Concluded.

| Recreational activity         | Needs          |       |       |
|-------------------------------|----------------|-------|-------|
|                               | User occasions |       |       |
|                               | 1980           | 1985  | 1990  |
| Hunting                       | 0              | 0     | 0     |
| Golf                          | 0              | 0     | 0     |
| Tennis                        | 0              | 0     | 0     |
| Baseball, softball            | 0              | 0     | 0     |
| Football, soccer, rugby       | 0              | 0     | 0     |
| Outdoor racquetball, handball | 12             | 15    | 16    |
| Outdoor basketball            | 0              | 0     | 0     |
| Outdoor swimming pool use     | 2,746          | 3,450 | 4,193 |
| Outdoor shuffleboard          | 706            | 793   | 888   |

<sup>a</sup> Recreational vehicle.



Table RT/ 9. Demand, supply and needs for selected outdoor recreation activities in Escambia County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

| Recreational activity                     | Demand  |         |         | Supply                  |                |
|---|---|---------|---------|-------------------------|----------------|
|   | Resident and tourist user occasions (thousands) |         |         | Resource facility units | User occasions |
|   | 1980  | 1985    | 1990    | 1980                    | 1980           |
| Saltwater beach activities                | 1,142.5   | 1,249.3 | 1,376.3 | 173,585 (lin ft)        | 69,434         |
| Freshwater swimming (non-pool)            | 102.4   | 111.0   | 122.5   | 355 (lin ft)            | 142            |
| Saltwater fishing (boat)                  | 165.4   | 179.2   | 197.9   | N.D.                    | N.D.           |
| Saltwater fishing (non-boat)              | 93.4  | 101.2   | 111.8   | 184,704 (lin ft)        | 30,784         |
| Freshwater fishing (boat)                 | 65.7  | 71.2    | 78.6    | N.D.                    | N.D.           |
| Freshwater fishing (non-boat)             | 31.1  | 33.7    | 37.3    | 8,326 (lin ft)          | 1,388          |
| Boat ramp use, saltwater                  | 142.5   | 155.7   | 171.7   | 15 (lanes)              | 2,400          |
| Boat ramp use, freshwater                 | 35.3  | 38.2    | 42.2    | 6 (lanes)               | 960            |
| Camping, RV <sup>a</sup> trailer          | 298.0   | 327.3   | 360.2   | 479 (sites)             | 1,916          |
| Camping, tent                             | 15.2  | 16.5    | 18.2    | 543 (sites)             | 2,172          |
| Picnicking                                | 749.1   | 822.2   | 904.9   | 226 (tables)            | 1,808          |
| Horseback riding                          | 11.1  | 12.0    | 13.2    | 1,010.0 (mi)            | 80,800         |
| Nature study                              | 168.2   | 184.0   | 202.7   | 15.5 (mi)               | 3,875          |
| Hiking                                    | 208.0   | 228.0   | 251.1   | 101.0 (mi)              | 12,625         |
| Canoeing                                  | 16.6  | 18.0    | 19.9    | 47.0 (mi)               | 0              |
| Bicycle riding                            | 315.6   | 341.9   | 377.5   | 1.5 (mi)                | 392            |
| Visiting archaeological, historical sites | 911.4   | 1,000.8 | 1,101.4 | 3 (sites)               | 1,261          |

Continued

Table R/T 9. Continued.

| Recreational activity         | Demand  |       |       | Supply                  |                |
|-------------------------------|---|-------|-------|-------------------------|----------------|
|                               | Resident and tourist user occasions (thousands) |       |       | Resource facility units | User occasions |
|                               | 1980  | 1985  | 1990  | 1980                    | 1980           |
| Hunting                       | 200.0   | 214.8 | 237.2 | 51,131 (acres)          | 920,284        |
| Golf                          | 65.7  | 71.2  | 78.6  | 227 (holes)             | 6,357          |
| Tennis                        | 146.0   | 158.2 | 174.7 | 70 (courts)             | 1,540          |
| Baseball, softball            | 130.8   | 141.7 | 156.5 | 59 (fields)             | 5,488          |
| Football, soccer, rugby       | 78.9  | 85.5  | 94.4  | 9 (fields)              | 1,008          |
| Outdoor racquetball, handball | 22.1  | 24.0  | 26.5  | 2 (courts)              | 64             |
| Outdoor basketball            | 141.2   | 152.9 | 168.9 | 67 (goals)              | 2,412          |
| Outdoor swimming pool use     | 99.7  | 108.0 | 119.2 | 7 (pools)               | 2,767          |
| Outdoor shuffleboard          | 0.0   | 0.0   | 0.0   | 2 (courts)              | 32             |

Continued

Table R/T 9. Continued.

| Recreational activity                        | Needs          |       |       |
|--|----------------|-------|-------|
|  | User occasions |       |       |
|  | 1980           | 1985  | 1990  |
| Saltwater beach activities                   | 0              | 0     | 0     |
| Freshwater swimming (non-pool)               | 366            | 408   | 465   |
| Saltwater fishing (boat)                     | N.D.           | N.D.  | N.D.  |
| Saltwater fishing (non-boat)                 | 0              | 0     | 0     |
| Freshwater fishing (boat)                    | 0              | 0     | 0     |
| Freshwater fishing (non-boat)                | 0              | 0     | 0     |
| Boat ramp use, saltwater                     | 0              | 0     | 0     |
| Boat ramp use, freshwater                    | 0              | 0     | 0     |
| Camping, RV trailer                          | 0              | 0     | 0     |
| Camping, tent                                | 0              | 0     | 0     |
| Picnicking                                   | 1,904          | 2,266 | 2,676 |
| Horseback riding                             | 0              | 0     | 0     |
| Nature study                                 | 0              | 0     | 0     |
| Hiking                                       | 0              | 0     | 0     |
| Canoeing                                     | N.D.           | N.D.  | N.D.  |
| Bicycle riding                               | 1,172          | 1,302 | 1,479 |
| Visiting archaeological,<br>historical sites | 3,256          | 3,698 | 4,197 |

Continued

Table R/T 9 Concluded.

|                               | Needs          |      |      |
|-------------------------------|----------------|------|------|
|                               | User occasions |      |      |
|                               | 1980           | 1985 | 1990 |
| Hunting                       | 0              | 0    | 0    |
| Golf                          | 0              | 0    | 0    |
| Tennis                        | 0              | 0    | 0    |
| Baseball, softball            | 0              | 0    | 0    |
| Football, soccer, rugby       | 0              | 0    | 0    |
| Outdoor racquetball, handball | 46             | 55   | 67   |
| Outdoor basketball            | 0              | 0    | 0    |
| Outdoor swimming pool use     | 0              | 0    | 0    |
| Outdoor shuffleboard          | 0              | 0    | 0    |

<sup>a</sup> Recreational vehicle.

Table R/T 10. Demand, supply and needs for selected outdoor recreation activities in Franklin County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

| Recreational activity                     | Demand  |      |      | Supply                  |                |
|---|---|------|------|-------------------------|----------------|
|   | Resident and tourist user occasions (thousands) |      |      | Resource facility units | User occasions |
|   | 1980  | 1985 | 1990 | 1980                    | 1980           |
| Saltwater beach activities                | 61.5  | 68.6 | 75.8 | 156,015 (lin ft)        | 62,406         |
| Freshwater swimming (non-pool)            | 2.0   | 2.2  | 2.4  | 5 (lin ft)              | 2              |
| Saltwater fishing (boat)                  | 25.0  | 27.9 | 30.8 | N.D.                    | N.D.           |
| Saltwater fishing (non-boat)              | 15.9  | 17.9 | 19.8 | 479,471 (lin ft)        | 79,912         |
| Freshwater fishing (boat)                 | 7.9   | 8.7  | 9.6  | N.D.                    | N.D.           |
| Freshwater fishing (non-boat)             | 2.5   | 2.8  | 3.1  | 205 (lin ft)            | 34             |
| Boat ramp use, saltwater                  | 20.8  | 23.2 | 26.7 | 9 (lanes)               | 1,440          |
| Boat ramp use, freshwater                 | 6.2   | 6.8  | 7.6  | 11 (lanes)              | 1,760          |
| Camping, RV <sup>a</sup> trailer          | 5.4   | 6.0  | 6.6  | 626 (sites)             | 2,504          |
| Camping, tent                             | 1.0   | 1.1  | 1.2  | 9 (sites)               | 36             |
| Picnicking                                | 10.3  | 11.4 | 12.6 | 62 (tables)             | 496            |
| Horseback riding                          | 0.3   | 0.3  | 0.4  | 0 (mi)                  | 0              |
| Nature study                              | 4.3   | 4.7  | 5.2  | 85.0 (mi)               | 21,250         |
| Hiking                                    | 1.5   | 1.7  | 1.8  | 0 (mi)                  | 0              |
| Canoeing                                  | 0.1   | 0.1  | 0.1  | 10.0 (mi)               | 0              |
| Bicycle riding                            | 10.8  | 12.1 | 13.4 | 0 (mi)                  | 0              |
| Visiting archaeological, historical sites | 0.4   | 0.5  | 0.5  | 4 (sites)               | 1,681          |

Continued

Table R/T 10. Continued.

| Recreational activity                        | Needs          |      |      |
|--|----------------|------|------|
|  | User occasions |      |      |
|  | 1980           | 1985 | 1990 |
| Saltwater beach activities                   | 0              | 0    | 0    |
| Freshwater swimming (non-pool)               | 8              | 9    | 10   |
| Saltwater fishing (boat)                     | N.D.           | N.D. | N.D. |
| Saltwater fishing (non-boat)                 | 0              | 0    | 0    |
| Freshwater fishing (boat)                    | N.D.           | N.D. | N.D. |
| Freshwater fishing (non-boat)                | 0              | 0    | 0    |
| Boat ramp use, saltwater                     | 0              | 0    | 0    |
| Boat ramp use, freshwater                    | 0              | 0    | 0    |
| Camping, RV trailer                          | 0              | 0    | 0    |
| Camping, tent                                | 0              | 0    | 0    |
| Picnicking                                   | 0              | 0    | 0    |
| Horseback riding                             | 1              | 2    | 2    |
| Nature study                                 | 0              | 0    | 0    |
| Hiking                                       | 7              | 8    | 9    |
| Canoeing                                     | N.D.           | N.D. | N.D. |
| Bicycle riding                               | 53             | 60   | 66   |
| Visiting archaeological,<br>historical sites | 0              | 0    | 0    |

Continued

Table R/T 10. Concluded.

| Recreational activity         | Demand  |      |      | Supply                  |                |
|-------------------------------|---|------|------|-------------------------|----------------|
|                               | Resident and tourist user occasions (thousands) |      |      | Resource facility units | User occasions |
|                               | 1980  | 1985 | 1990 | 1980                    | 1980           |
| Hunting                       | 40.6  | 45.3 | 50.2 | 42,667 (acres)          | 767,945        |
| Golf                          | 11.6  | 13.0 | 14.3 | 9 (holes)               | 252            |
| Tennis                        | 1.1   | 1.3  | 1.4  | 2 (courts)              | 44             |
| Baseball, softball            | 2.0   | 2.3  | 2.5  | 2 (fields)              | 186            |
| Football, soccer, rugby       | 0.1   | 0.1  | 0.1  | 4 (fields)              | 448            |
| Outdoor racquetball, handball | 0.0   | 0.0  | 0.0  | 0 (courts)              | 0              |
| Outdoor basketball            | 0.6   | 0.6  | 0.7  | 0 (goals)               | 0              |
| Outdoor swimming pool use     | 0.9   | 1.0  | 1.1  | 4 (pools)               | 1,581          |
| Outdoor shuffleboard          | 0.0   | 0.0  | 0.0  | 0 (courts)              | 0              |

| Recreational activity         | Needs          |      |      |
|-------------------------------|----------------|------|------|
|                               | User occasions |      |      |
|                               | 1980           | 1985 | 1990 |
| Hunting                       | 0              | 0    | 0    |
| Golf                          | 0              | 0    | 0    |
| Tennis                        | 0              | 0    | 0    |
| Baseball, softball            | 0              | 0    | 0    |
| Football, soccer, rugby       | 0              | 0    | 0    |
| Outdoor racquetball, handball | 0              | 0    | 0    |
| Outdoor basketball            | 3              | 3    | 4    |
| Outdoor swimming pool use     | 0              | 0    | 0    |
| Outdoor shuffleboard          | 0              | 0    | 0    |

<sup>a</sup> Recreational vehicle.

Table R/T 11. Demand, supply, and needs for selected outdoor recreation activities in Gulf County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

| Recreational activity                     | Demand  |      |      | Supply                  |                |
|---|---|------|------|-------------------------|----------------|
|   | Resident and tourist user occasions (thousands) |      |      | Resource facility units | User occasions |
|   | 1980  | 1985 | 1990 | 1980                    | 1980           |
| Saltwater beach activities                | 50.9  | 54.2 | 59.7 | 48,580 (lin ft)         | 19,432         |
| Freshwater swimming (non-pool)            | 2.5   | 2.6  | 2.9  | 0 (lin ft)              | 0              |
| Saltwater fishing (boat)                  | 15.1  | 16.1 | 17.8 | N.D.                    | N.D.           |
| Saltwater fishing (non-boat)              | 28.0  | 29.8 | 33.8 | 45,581 (lin ft)         | 8,097          |
| Freshwater fishing (boat)                 | 29.6  | 31.5 | 34.7 | N.D.                    | N.D.           |
| Freshwater fishing (non-boat)             | 16.5  | 17.6 | 18.4 | 0 (lin ft)              | 0              |
| Boat ramp use, saltwater                  | 5.2   | 5.5  | 6.1  | 6 (lanes)               | 960            |
| Boat ramp use, freshwater                 | 17.7  | 18.8 | 20.8 | 24 (lanes)              | 3,840          |
| Camping, RV <sup>a</sup> trailer          | 3.2   | 3.4  | 3.7  | 68 (sites)              | 272            |
| Camping, tent                             | 8.1   | 8.6  | 9.4  | 149 (sites)             | 596            |
| Picnicking                                | 15.9  | 16.9 | 18.6 | 71 (tables)             | 568            |
| Horseback riding                          | 0.4   | 0.4  | 0.5  | 0 (mi)                  | 0              |
| Nature study                              | 7.3   | 7.8  | 8.6  | 2.5 (mi)                | 625            |
| Hiking                                    | 6.6   | 7.0  | 7.8  | 7.0 (mi)                | 875            |
| Canoeing                                  | 3.3   | 3.6  | 3.9  | 0 (mi)                  | 0              |
| Bicycle riding                            | 14.0  | 14.9 | 16.5 | 0 (mi)                  | 0              |
| Visiting archaeological, historical sites | 0.6   | 0.7  | 0.7  | 0 (sites)               | 0              |

Continued



Table R/T 11. Continued.

| Recreational activity                        | Needs          |      |      |
|--|----------------|------|------|
|  | User occasions |      |      |
|  | 1980           | 1985 | 1990 |
| Saltwater beach activities                   | 0              | 0    | 0    |
| Freshwater swimming (non-pool)               | 12             | 13   | 14   |
| Saltwater fishing (boat)                     | N.D.           | N.D. | N.D. |
| Saltwater fishing (non-boat)                 | 0              | 0    | 0    |
| Freshwater fishing (boat)                    | N.D.           | N.D. | N.D. |
| Freshwater fishing (non-boat)                | 82             | 87   | 96   |
| Boat ramp use, saltwater                     | 0              | 0    | 0    |
| Boat ramp use, freshwater                    | 0              | 0    | 0    |
| Camping, RV trailer                          | 0              | 0    | 0    |
| Camping, tent                                | 0              | 0    | 0    |
| Picnicking                                   | 0              | 0    | 0    |
| Horseback riding                             | 2              | 2    | 2    |
| Nature study                                 | 0              | 0    | 0    |
| Hiking                                       | 0              | 0    | 0    |
| Canoeing                                     | N.D.           | N.D. | N.D. |
| Bicycle riding                               | 70             | 74   | 82   |
| Visiting archaeological,<br>historical sites | 3              | 3    | 4    |

Continued

Table R/T 11. Concluded.

| Recreational activity         | Demand  |      |      | Supply                  |                |
|-------------------------------|---|------|------|-------------------------|----------------|
|                               | Resident and tourist user occasions (thousands) |      |      | Resource facility units | User occasions |
|                               | 1980  | 1985 | 1990 | 1980                    | 1980           |
| Hunting                       | 71.0  | 75.4 | 83.1 | 93,555 (acres)          | 1,683,855      |
| Golf                          | 6.5   | 6.9  | 7.6  | 27 (holes)              | 756            |
| Tennis                        | 2.3   | 2.5  | 2.7  | 8 (courts)              | 176            |
| Baseball, softball            | 6.7   | 7.1  | 7.9  | 11 (fields)             | 1,023          |
| Football, soccer, rugby       | 0.3   | 0.3  | 0.4  | 0 (fields)              | 0              |
| Outdoor racquetball, handball | 0 0   | 0 0  | 0 0  | 0 (courts)              | 0              |
| Outdoor basketball            | 2.4   | 2.5  | 2.8  | 0 (goals)               | 0              |
| Outdoor swimming pool use     | 0.4   | 0.4  | 0.5  | 1 (pools)               | 395            |
| Outdoor shuffleboard          | 0 0   | 0 0  | 0 0  | 0 (courts)              | 0              |

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| Recreational activity         | Needs          |      |      |
|-------------------------------|----------------|------|------|
|                               | User occasions |      |      |
|                               | 1980           | 1985 | 1990 |
| Hunting                       | 0              | 0    | 0    |
| Golf                          | 0              | 0    | 0    |
| Tennis                        | 0              | 0    | 0    |
| Baseball, softball            | 0              | 0    | 0    |
| Football, soccer, rugby       | 2              | 2    | 2    |
| Outdoor racquetball, handball | 0              | 0    | 0    |
| Outdoor basketball            | 12             | 13   | 14   |
| Outdoor swimming pool use     | 0              | 0    | 0    |
| Outdoor shuffleboard          | 0              | 0    | 0    |

<sup>a</sup> Recreational vehicle.

Table R/T 12. Demand, supply and needs for selected outdoor recreation activities in Okaloosa County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

| Recreational activity                     | Demand  |         |         | Supply                  |                |
|---|---|---------|---------|-------------------------|----------------|
|   | Resident and tourist user occasions (thousands) |         |         | Resource facility units | User occasions |
|   | 1980  | 1985    | 1990    | 1980                    | 1980           |
| Saltwater beach activities                | 1,550.8   | 1,719.7 | 1,892.9 | 9,605 (lin ft)          | 3,842          |
| Freshwater swimming (non-pool)            | 178.5   | 200.3   | 220.6   | 0 (lin ft)              | 0              |
| Saltwater fishing (boat)                  | 80.0  | 89.5    | 98.5    | N.D.                    | N.D.           |
| Saltwater fishing (non-boat)              | 434.3   | 482.3   | 530.9   | 340,085 (lin ft)        | 56,681         |
| Freshwater fishing (boat)                 | 44.4  | 51.1    | 56.3    | N.D.                    | N.D.           |
| Freshwater fishing (non-boat)             | 127.4   | 146.3   | 161.5   | 6,540 (lin ft)          | 1,090          |
| Boat ramp use, saltwater                  | 45.8  | 52.6    | 58.0    | 19 (lanes)              | 3,040          |
| Boat ramp use, freshwater                 | 35.8  | 41.2    | 45.4    | 54 (lanes)              | 8,640          |
| Camping, RV <sup>a</sup> trailer          | 304.6   | 335.7   | 369.3   | 793 (sites)             | 3,172          |
| Camping, tent                             | 155.6   | 171.6   | 188.8   | 133 (sites)             | 532            |
| Picnicking                                | 869.9   | 960.0   | 1,056.3 | 598 (tables)            | 4,784          |
| Horseback riding                          | 1.3   | 1.5     | 1.7     | 0 (mi)                  | 0              |
| Nature study                              | 54.9  | 61.9    | 68.2    | 4.8 (mi)                | 1,200          |
| Hiking                                    | 164.4   | 182.9   | 201.4   | 21.0 (mi)               | 2,625          |
| Canoeing                                  | 47.8  | 54.9    | 60.5    | 192.2 (mi)              | 0              |
| Bicycle riding                            | 408.0   | 459.3   | 506.0   | 0 (mi)                  | 0              |
| Visiting archaeological, historical sites | 19.9  | 22.9    | 25.2    | 4 (sites)               | 1,681          |

Continued

Table R/T 12. Continued.

| Recreational activity                        | Needs          |       |       |
|--|----------------|-------|-------|
|  | User occasions |       |       |
|  | 1980           | 1985  | 1990  |
| Saltwater beach activities                   | 3,842          | 4,679 | 5,537 |
| Freshwater swimming (non-pool)               | 884            | 992   | 1,093 |
| Saltwater fishing (boat)                     | N.D.           | N.D.  | N.D.  |
| Saltwater fishing (non-boat)                 | 0              | 0     | 0     |
| Freshwater fishing (boat)                    | N.D.           | N.D.  | N.D.  |
| Freshwater fishing (non-boat)                | 0              | 0     | 0     |
| Boat ramp use, saltwater                     | 0              | 0     | 0     |
| Boat ramp use, freshwater                    | 0              | 0     | 0     |
| Camping, RV <sup>a</sup> trailer             | 0              | 0     | 0     |
| Camping, tent                                | 239            | 319   | 404   |
| Picnicking                                   | 0              | 0     | 450   |
| Horseback riding                             | 7              | 8     | 8     |
| Nature study                                 | 0              | 0     | 0     |
| Hiking                                       | 0              | 0     | 0     |
| Canoeing                                     | N.D.           | N.D.  | N.D.  |
| Bicycle riding                               | 2,022          | 2,276 | 2,507 |
| Visiting archaeological,<br>historical sites | 0              | 0     | 0     |

Continued

Table R/T 12. Concluded.

| Recreational activity         | Demand  |       |       | Supply                  |                |
|-------------------------------|---|-------|-------|-------------------------|----------------|
|                               | Resident and tourist user occasions (thousands) |       |       | Resource facility units | User occasions |
|                               | 1980  | 1985  | 1990  | 1980                    | 1980           |
| Hunting                       | 141.5   | 162.1 | 178.9 | 237,668 (acres)         | 4,277,682      |
| Golf                          | 143.3   | 164.6 | 181.6 | 243 (holes)             | 6,805          |
| Tennis                        | 326.1   | 362.8 | 399.4 | 698 (courts)            | 1,518          |
| Baseball, softball            | 82.2  | 94.5  | 104.3 | 36 (fields)             | 3,349          |
| Football, soccer, rugby       | 46.4  | 53.3  | 58.9  | 7 (fields)              | 784            |
| Outdoor racquetball, handball | 0.0   | 0.0   | 0.0   | 3 (courts)              | 96             |
| Outdoor basketball            | 274.6   | 304.7 | 335.4 | 30 (goals)              | 1,080          |
| Outdoor swimming pool use     | 716.2   | 79.40 | 875.6 | 10 (pools)              | 3,953          |
| Outdoor shuffleboard          | 48.8  | 53.7  | 59.0  | 6 (courts)              | 96             |

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| Recreational activity         | Needs          |      |      |
|-------------------------------|----------------|------|------|
|                               | User occasions |      |      |
|                               | 1980           | 1985 | 1990 |
| Hunting                       | 0              | 0    | 0    |
| Golf                          | 0              | 0    | 0    |
| Tennis                        | 98             | 279  | 461  |
| Baseball, softball            | 0              | 0    | 0    |
| Football, soccer, rugby       | 0              | 0    | 0    |
| Outdoor racquetball, handball | 0              | 0    | 0    |
| Outdoor basketball            | 281            | 430  | 582  |
| Outdoor swimming pool use     | 0              | 0    | 386  |
| Outdoor shuffleboard          | 146            | 170  | 197  |

<sup>a</sup> Recreational vehicle.

Table R/T 13. Demand, supply and needs for selected outdoor recreation activities in Walton County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

| Recreational activity                     | Demand  |      |      | Supply                  |                |
|---|---|------|------|-------------------------|----------------|
|   | Resident and tourist user occasions (thousands) |      |      | Resource facility units | User occasions |
|   | 1980  | 1985 | 1990 | 1980                    | 1980           |
| Saltwater beach activities                | 62.4  | 69.7 | 76.9 | 6,105 (lin ft)          | 2,442          |
| Freshwater swimming (non-pool)            | 22.9  | 25.5 | 28.2 | 10 (lin ft)             | 4              |
| Saltwater fishing (boat)                  | 15.7  | 17.5 | 19.3 | N.D.                    | N.D.           |
| Saltwater fishing (non-boat)              | 12.9  | 14.4 | 15.9 | 6,105 (lin ft)          | 1,018          |
| Freshwater fishing (boat)                 | 35.1  | 39.1 | 43.1 | N.D.                    | N.D.           |
| Freshwater fishing (non-boat)             | 26.5  | 29.6 | 32.7 | 15,870 (lin ft)         | 2,645          |
| Boat ramp use, saltwater                  | 8.1   | 9.0  | 10.0 | 8 (lanes)               | 1,280          |
| Boat ramp use, freshwater                 | 19.3  | 21.4 | 23.6 | 23 (lanes)              | 3,680          |
| Camping, RV <sup>a</sup> trailer          | 10.5  | 11.6 | 12.7 | 548 (sites)             | 2,192          |
| Camping, tent                             | 1.9   | 2.1  | 2.3  | 40 (sites)              | 160            |
| Picnicking                                | 17.4  | 19.4 | 21.4 | 148 (tables)            | 1,184          |
| Horseback riding                          | 5.8   | 6.5  | 7.1  | .1 (mi)                 | 8              |
| Nature study                              | 4.1   | 4.6  | 5.1  | .8 (mi)                 | 200            |
| Hiking                                    | 13.9  | 15.6 | 17.2 | .4 (mi)                 | 50             |
| Canoeing                                  | 0.0   | 0.0  | 0.0  | 7.0 (mi)                | 0              |
| Bicycle riding                            | 20.7  | 23.1 | 25.5 | 0 (mi)                  | 0              |
| Visiting archaeological, historical sites | 1.5   | 1.7  | 1.8  | 0 (sites)               | 0              |

Continued

Table R/T 13. Continued.

| Recreational activity                        | Needs          |      |      |
|--|----------------|------|------|
|  | User occasions |      |      |
|  | 1980           | 1985 | 1990 |
| Saltwater beach activities                   | 0              | 0    | 0    |
| Freshwater swimming (non-pool)               | 110            | 123  | 136  |
| Saltwater fishing (boat)                     | N.D.           | N.D. | N.D. |
| Saltwater fishing (non-boat)                 | 0              | 0    | 0    |
| Freshwater fishing (boat)                    | N.D.           | N.D. | N.D. |
| Freshwater fishing (non-boat)                | 0              | 0    | 0    |
| Boat ramp use, saltwater                     | 0              | 0    | 0    |
| Boat ramp use, freshwater                    | 0              | 0    | 0    |
| Camping, RV trailer                          | 0              | 0    | 0    |
| Camping, tent                                | 0              | 0    | 0    |
| Picnicking                                   | 0              | 0    | 0    |
| Horseback riding                             | 21             | 24   | 27   |
| Nature study                                 | 0              | 0    | 0    |
| Hiking                                       | 19             | 27   | 35   |
| Canoeing                                     | N.D.           | N.D. | N.D. |
| Bicycle riding                               | 103            | 115  | 127  |
| Visiting archaeological,<br>historical sites | 7              | 8    | 9    |

Continued

Table R/T 13. Concluded.

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| Recreational activity         | Demand  |       |       | Supply                  |                |
|-------------------------------|---|-------|-------|-------------------------|----------------|
|                               | Resident and tourist user occasions (thousands) |       |       | Resource facility units | User occasions |
|                               | 1980  | 1985  | 1990  | 1980                    | 1980           |
| Hunting                       | 147.1   | 164.5 | 181.5 | 161,840 (acres)         | 2,912,887      |
| Golf                          | 8.1   | 9.0   | 10.0  | 18 (holes)              | 504            |
| Tennis                        | 5.7   | 6.4   | 7.0   | 5 (courts)              | 110            |
| Baseball, softball            | 11.3  | 12.6  | 13.9  | 2 (fields)              | 186            |
| Football, soccer, rugby       | 2.4   | 2.7   | 3.0   | 0 (fields)              | 0              |
| Outdoor racquetball, handball | 0.0   | 0.0   | 0.0   | 0 (courts)              | 0              |
| Outdoor basketball            | 5.3   | 5.9   | 6.5   | 0 (goals)               | 0              |
| Outdoor swimming pool use     | 3.9   | 4.3   | 4.8   | 7 (pools)               | 2,767          |
| Outdoor shuffleboard          | 0.0   | 0.0   | 0.0   | 3 (courts)              | 48             |

| Recreational activity         | Needs          |      |      |
|-------------------------------|----------------|------|------|
|                               | User occasions |      |      |
|                               | 1980           | 1985 | 1990 |
| Hunting                       | 0              | 0    | 0    |
| Golf                          | 0              | 0    | 0    |
| Tennis                        | 0              | 0    | 0    |
| Baseball, softball            | 0              | 0    | 0    |
| Football, soccer, rugby       | 12             | 13   | 15   |
| Outdoor racquetball, handball | 0              | 0    | 0    |
| Outdoor basketball            | 26             | 29   | 32   |
| Outdoor swimming pool use     | 0              | 0    | 0    |
| Outdoor shuffleboard          | 0              | 0    | 0    |

<sup>a</sup> Recreational vehicle.



Table R/T 14. Federal public recreation and park facility inventory in 1980<sup>a</sup>  
 (Florida Department of Natural Resources 1980, Division of Recreation and  
 Parks 1980c).

| Facility                | Bay | Escambia  | Franklin |
|-------------------------|-----|-----------|----------|
| Number of areas         | 0   | 1         | 3        |
| Number of acres:        |     |           |          |
| total                   | 0.0 | 22,506.1  | 34,196.0 |
| land                    | 0.0 | 3,829.1   | 33,951.0 |
| water                   | 0.0 | 18,677.0  | 245.0    |
| parking                 | 0.0 | 0.0       | 6.0      |
| developed               | 0.0 | 22,506.1  | 21,838.0 |
| undeveloped             | 0.0 | 0.0       | 0.0      |
| Buildings:              |     |           |          |
| recreation centers      | 0   | 0         | 0        |
| other                   | 0   | 0         | 0        |
| Playing fields:         |     |           |          |
| baseball                | 0   | 0         | 0        |
| junior baseball         | 0   | 0         | 0        |
| softball                | 0   | 0         | 0        |
| football                | 0   | 0         | 0        |
| Courts:                 |     |           |          |
| tennis                  | 0   | 0         | 0        |
| basketball              | 0   | 0         | 0        |
| shuffleboard            | 0   | 0         | 0        |
| handball                | 0   | 0         | 0        |
| Hunting acres:          |     |           |          |
| upland                  | 0.0 | 0.0       | 3,0667.0 |
| water                   | 0.0 | 0.0       | 0.0      |
| Boat ramps:             |     |           |          |
| saltwater               | 0   | 0         | 0        |
| freshwater              | 0   | 0         | 1        |
| Piers:                  |     |           |          |
| saltwater               | 1   | 0         | 0        |
| freshwater              | 0   | 0         | 0        |
| Beach saltwater:        |     |           |          |
| footage (lin ft)        | 0   | 163,680   | 70,000   |
| area (ft <sup>2</sup> ) | 0   | 6,547,200 | 0        |
| Beach freshwater:       |     |           |          |
| footage (lin ft)        | 0   | 0         | 200      |
| area (ft <sup>2</sup> ) | 0   | 0         | 30,000   |

Continued

Table R/T 14. Continued.

| Facility                          | Bay | Escambia | Franklin |
|-----------------------------------|-----|----------|----------|
| Trails: (tenths of mi)            |     |          |          |
| hiking                            | 0.0 | 0.0      | 0.0      |
| bicycle                           | 0.0 | 0.0      | 0.0      |
| horseback                         | 0.0 | 0.0      | 0.0      |
| motorbike                         | 0.0 | 0.0      | 0.0      |
| nature                            | 0.0 | 1.5      | 85.0     |
| waterway                          | 0.0 | 0.0      | 0.0      |
| multipurpose                      | 0.0 | 0.0      | 0.0      |
| Equipped playing areas            | 0   | 0        | 0        |
| Regulation golf holes             | 0   | 0        | 0        |
| Swimming pools                    | 0   | 0        | 0        |
| Picnic sites:                     |     |          |          |
| shelters                          | 0   | 0        | 0        |
| tables                            | 0   | 124      | 6        |
| Historical, archaeological sites: |     |          |          |
| museums                           | 0   | 3        | 0        |
| other                             | 0   | 0        | 2        |
| Campsites:                        |     |          |          |
| RV <sup>D</sup> trailer acres     | 0.0 | 300.0    | 27.0     |
| tent acres                        | 0.0 | 0.0      | 0.0      |
| primitive acres                   | 0.0 | 0.0      | 2.0      |
| Marinas:                          |     |          |          |
| saltwater                         | 0   | 0        | 0        |
| freshwater                        | 0   | 0        | 0        |

Continued

Table R/T 14. Continued.

| Facility                | Gulf | Okaloosa  | Santa Rosa |
|-------------------------|------|-----------|------------|
| Number of areas         | 0    | 2         | 0          |
| Number of acres:        |      |           |            |
| total                   | 45.0 | 464,019.0 | 1,520.8    |
| land                    | 45.0 | 462,819.0 | 1,377.8    |
| water                   | 0.0  | 1,200.0   | 143.0      |
| parking                 | 0.0  | 0.0       | 0.0        |
| developed               | 0.0  | 174,000.0 | 1,520.8    |
| undeveloped             | 0.0  | 288,800.0 | 0.0        |
| Buildings:              |      |           |            |
| recreation centers      | 0    | 0         | 0          |
| other                   | 0    | 0         | 0          |
| Playing fields:         |      |           |            |
| baseball                | 0    | 0         | 0          |
| junior baseball         | 0    | 0         | 0          |
| softball                | 0    | 0         | 0          |
| football                | 0    | 0         | 0          |
| Courts:                 |      |           |            |
| tennis                  | 0    | 0         | 0          |
| basketball              | 0    | 0         | 0          |
| shuffleboard            | 0    | 0         | 0          |
| handball                | 0    | 0         | 0          |
| Hunting acres:          |      |           |            |
| upland                  | 0.0  | 0.0       | 0.0        |
| water                   | 0.0  | 1,200.0   | 0.0        |
| Boat ramps:             |      |           |            |
| saltwater               | 2    | 0         | 0          |
| freshwater              | 36   | 0         | 0          |
| Piers:                  |      |           |            |
| saltwater               | 0    | 0         | 0          |
| freshwater              | 0    | 0         | 0          |
| Beach saltwater:        |      |           |            |
| footage (lin ft)        | 0    | 0         | 0          |
| area (ft <sup>2</sup> ) | 0    | 0         | 0          |
| Beach freshwater:       |      |           |            |
| footage (lin ft)        | 0    | 0         | 0          |
| area (ft <sup>2</sup> ) | 0    | 0         | 0          |

Continued

Table R/T 14. Concluded.

| Facility                          | Gulf  | Okaloosa | Santa Rosa |
|-----------------------------------|-------|----------|------------|
| Trails: (tenths of mi)            |       |          |            |
| hiking                            | 0.0   | 0.0      | 0.0        |
| bicycle                           | 0.0   | 0.0      | 0.0        |
| horseback                         | 0.0   | 0.0      | 0.0        |
| motorbike                         | 0.0   | 0.0      | 0.0        |
| nature                            | 1.1   | 0.0      | 0.0        |
| waterway                          | 55.2  | 0.0      | 0.0        |
| multipurpose                      | 0.0   | 0.0      | 0.0        |
| Equipped playing areas            | 0     | 0        | 0          |
| Regulation golf holes             | 0     | 0        | 0          |
| Swimming pools                    | 0     | 0        | 0          |
| Picnic sites:                     |       |          |            |
| shelters                          | 0     | 0        | 0          |
| tables                            | 0     | 2        | 0          |
| Historical, archaeological sites: |       |          |            |
| museums                           | 1     | 0        | 0          |
| other                             | 1     | 0        | 0          |
| Campsites:                        |       |          |            |
| RV trailer acres                  | 0.0   | 0.0      | 0.0        |
| tent acres                        | 150.0 | 0.0      | 0.0        |
| primitive acres                   | 0.0   | 0.0      | 0.0        |
| Marinas:                          |       |          |            |
| saltwater                         | 0     | 0        | 0          |
| freshwater                        | 0     | 0        | 0          |

<sup>a</sup> No data for Walton County.  
<sup>b</sup> Recreational vehicle.

Table R/T 15. State public recreation and park facility inventory in 1980  
 (Florida Department of Natural Resources 1980, Division of Recreation and  
 Parks 1980c).

| Facility                | Bay       | Escambia | Franklin  | Gulf      |
|-------------------------|-----------|----------|-----------|-----------|
| Number of areas         | 7         | 6        | 12        | 8         |
| Number of acres:        |           |          |           |           |
| total                   | 179,205.5 | 75,051.5 | 120,145.4 | 164,010.8 |
| land                    | 153,345.5 | 51,561.5 | 16,355.4  | 96,230.8  |
| water                   | 25,860.0  | 23,490.0 | 103,810.0 | 67,780.0  |
| parking                 | 3.7       | 0.0      | 1.0       | 1.1       |
| developed               | 153,342.7 | 50,621.0 | 12,078.3  | 96,228.0  |
| undeveloped             | 25,862.8  | 940.5    | 53,867.5  | 67,782.8  |
| Buildings:              |           |          |           |           |
| recreation centers      | 0         | 0        | 0         | 0         |
| other                   | 0         | 0        | 0         | 2         |
| Playing fields:         |           |          |           |           |
| baseball                | 0         | 0        | 0         | 0         |
| junior baseball         | 0         | 0        | 0         | 0         |
| softball                | 0         | 0        | 0         | 0         |
| football                | 0         | 0        | 0         | 0         |
| Courts:                 |           |          |           |           |
| tennis                  | 0         | 0        | 0         | 0         |
| basketball              | 0         | 0        | 0         | 0         |
| shuffleboard            | 0         | 0        | 0         | 0         |
| handball                | 0         | 0        | 0         | 0         |
| Hunting acres:          |           |          |           |           |
| upland                  | 152,279.0 | 50,621.0 | 12,000.0  | 93,555.0  |
| water                   | 0.0       | 0.0      | 0.0       | 0.0       |
| Boat ramps:             |           |          |           |           |
| saltwater               | 2         | 0        | 3         | 2         |
| freshwater              | 0         | 0        | 1         | 3         |
| Piers:                  |           |          |           |           |
| saltwater               | 2         | 0        | 0         | 0         |
| freshwater              | 0         | 0        | 4         | 0         |
| Beach saltwater:        |           |          |           |           |
| footage (lin ft)        | 15,000    | 0        | 84,615    | 48,570    |
| area (ft <sup>2</sup> ) | 1,125,000 | 0        | 1,594,125 | 3,577,050 |
| Beach freshwater:       |           |          |           |           |
| footage (lin ft)        | 0         | 0        | 0         | 0         |
| area (ft <sup>2</sup> ) | 0         | 0        | 0         | 0         |

Continued

Table R/T 15. Continued.

| Facility                          | Bay  | Escambia | Franklin | Gulf  |
|-----------------------------------|------|----------|----------|-------|
| Trails: (tenths of mi)            |      |          |          |       |
| hiking                            | 0.0  | 0.0      | 0.0      | 7.0   |
| bicycle                           | 0.0  | 0.0      | 0.0      | 0.0   |
| horseback                         | 0.0  | 0.0      | 0.0      | 0.0   |
| motorbike                         | 0.0  | 0.0      | 0.0      | 0.0   |
| nature                            | 3.0  | 0.0      | 0.0      | 2.5   |
| waterway                          | 15.0 | 27.0     | 10.0     | 0.0   |
| multipurpose                      | 0.0  | 0.0      | 0.0      | 0.0   |
| Equipped playing areas            | 0    | 0        | 0        | 0     |
| Regulation golf holes             | 0    | 0        | 0        | 0     |
| Swimming pools                    | 0    | 0        | 0        | 0     |
| Picnic sites:                     |      |          |          |       |
| shelters                          | 0    | 0        | 0        | 0     |
| tables                            | 134  | 0        | 44       | 53    |
| Historical, archaeological sites: |      |          |          |       |
| museums                           | 0    | 0        | 0        | 1     |
| other                             | 0    | 0        | 0        | 0     |
| Campsites:                        |      |          |          |       |
| RV <sup>a</sup> trailer acres     | 0.0  | 0.0      | 0.0      | 0.0   |
| tent acres                        | 30.0 | 0.0      | 0.0      | 149.0 |
| primitive acres                   | 0.0  | 0.0      | 2.0      | 0.0   |
| Marinas:                          |      |          |          |       |
| saltwater                         | 0    | 0        | 0        | 1     |
| freshwater                        | 0    | 0        | 0        | 0     |

Continued

Table R/T 15. Continued.

| Facility                | Okaloosa  | Santa Rosa | Walton    |
|-------------------------|-----------|------------|-----------|
| Number of areas         | 0         | 2          | 0         |
| Number of acres:        |           |            |           |
| total                   | 237,397.8 | 166,910.0  | 162,535.8 |
| land                    | 236,667.8 | 157,653.0  | 162,095.8 |
| water                   | 730.0     | 9,257.0    | 440.0     |
| parking                 | .4        | 1.5        | 1.3       |
| developed               | 38,189.8  | 147,219.5  | 125,034.8 |
| undeveloped             | N.D.      | N.D.       | N.D.      |
| Buildings:              |           |            |           |
| recreation centers      | 0         | 1          | 0         |
| other                   | 0         | 14         | 0         |
| Playing fields:         |           |            |           |
| baseball                | 0         | 0          | 0         |
| junior baseball         | 0         | 0          | 0         |
| softball                | 0         | 0          | 0         |
| football                | 0         | 0          | 0         |
| Courts:                 |           |            |           |
| tennis                  | 0         | 0          | 0         |
| basketball              | 0         | 0          | 0         |
| shuffleboard            | 0         | 0          | 0         |
| handball                | 0         | 0          | 0         |
| Hunting acres:          |           |            |           |
| upland                  | 0.0       | 159,336.0  | 161,840.0 |
| water                   | 0.0       | 0.0        | 0.0       |
| Boat ramps:             |           |            |           |
| saltwater               | 1         | 1          | 3         |
| freshwater              | 7         | 6          | 2         |
| Piers:                  |           |            |           |
| saltwater               | 0         | 1          | 0         |
| freshwater              | 0         | 0          | 1         |
| Beach saltwater:        |           |            |           |
| footage (lin ft)        | 2,950     | 1,500      | 6,000     |
| area (ft <sup>2</sup> ) | 147,500   | 10,000     | 422,000   |
| Beach freshwater:       |           |            |           |
| footage (lin ft)        | 300       | 0          | 0         |
| area (ft <sup>2</sup> ) | 15,000    | 0          | 0         |

Continued

Table R/T 15. Concluded.

| Facility                          | Okaloosa | Santa Rosa | Walton |
|-----------------------------------|----------|------------|--------|
| Trails: (tenths of mi)            |          |            |        |
| hiking                            | 21.0     | 17.0       | 0.0    |
| bicycle                           | 0.0      | 0.0        | 0.0    |
| horseback                         | 0.0      | 21.0       | 0.0    |
| motorbike                         | 0.0      | 0.0        | 0.0    |
| nature                            | 2.7      | 4.3        | .8     |
| waterway                          | 82.0     | 54.0       | 7.0    |
| multipurpose                      | 0.0      | 0.0        | 0.0    |
| Equipped playing areas            | 0        | 0          | 0      |
| Regulation golf holes             | 0        | 0          | 0      |
| Swimming pools                    | 0        | 0          | 0      |
| Picnic sites:                     |          |            |        |
| shelters                          | 0        | 0          | 0      |
| tables                            | 140      | 220        | 84     |
| Historical, archaeological sites: |          |            |        |
| museums                           | 1        | 0          | 2      |
| other                             | 0        | 0          | 0      |
| Campsites:                        |          |            |        |
| RV trailer acres                  | 10.0     | 106 spaces | 5.0    |
| tent acres                        | 3.0      | 13.0       | 7.0    |
| primitive acres                   | 5.0      | 40.0       | 0.0    |
| Marinas:                          |          |            |        |
| saltwater                         | 0        | 0          | 0      |
| freshwater                        | 0        | 0          | 0      |

<sup>a</sup> Recreational vehicle.



Table R/T 16. County public recreation and park facility inventory in 1980  
 (Florida Department of Natural Resources 1980, Division of Recreation and  
 Parks 1980c).

| Facility                | Bay     | Escambia | Franklin | Gulf    |
|-------------------------|---------|----------|----------|---------|
| Number of areas         | 29      | 35       | 8        | 7       |
| Number of acres:        |         |          |          |         |
| total                   | 126.5   | 198.7    | 7.5      | 9.7     |
| land                    | 117.5   | 198.7    | 7.5      | 9.7     |
| water                   | 9.0     | 0.0      | 0.0      | 0.0     |
| parking                 | 3.5     | 5.0      | 0.0      | 6.5     |
| developed               | 94.1    | 141.3    | 7.5      | 9.7     |
| undeveloped             | 21.9    | 57.4     | 0.0      | 0.0     |
| Buildings:              |         |          |          |         |
| recreation centers      | 5       | 2        | 0        | 0       |
| other                   | 0       | 0        | 0        | 0       |
| Playing fields:         |         |          |          |         |
| baseball                | 1       | 5        | 0        | 0       |
| junior baseball         | 13      | 6        | 0        | 0       |
| softball                | 1       | 3        | 0        | 0       |
| football                | 2       | 3        | 0        | 0       |
| Courts:                 |         |          |          |         |
| tennis                  | 10      | 2        | 0        | 0       |
| basketball              | 1       | 2        | 0        | 0       |
| shuffleboard            | 1       | 0        | 0        | 0       |
| handball                | 0       | 0        | 0        | 0       |
| Hunting acres:          |         |          |          |         |
| upland                  | 0.0     | 0.0      | 0.0      | 0.0     |
| water                   | 0.0     | 0.0      | 0.0      | 0.0     |
| Boat ramps:             |         |          |          |         |
| saltwater               | 7       | 7        | 7        | 1       |
| freshwater              | 6       | 0        | 0        | 5       |
| Piers:                  |         |          |          |         |
| saltwater               | 2       | 0        | 0        | 5       |
| freshwater              | 0       | 0        | 0        | 0       |
| Beach saltwater:        |         |          |          |         |
| footage (lin ft)        | 1,500   | 6,100    | 100      | 3,750   |
| area (ft <sup>2</sup> ) | 186,000 | 610,000  | 5,000    | 587,500 |
| Beach freshwater:       |         |          |          |         |
| footage (lin ft)        | 0       | 0        | 0        | 0       |
| area (ft <sup>2</sup> ) | 0       | 0        | 0        | 0       |

Continued

Table R/T 16. Continued.

| Facility                          | Bay | Escambia | Franklin | Gulf |
|-----------------------------------|-----|----------|----------|------|
| Trails: (tenths of mi)            |     |          |          |      |
| hiking                            | 0.0 | 0.0      | 0.0      | 0.0  |
| bicycle                           | 0.0 | 0.0      | 0.0      | 0.0  |
| horseback                         | 0.0 | 0.0      | 0.0      | 0.0  |
| motorbike                         | 0.0 | 0.0      | 0.0      | 0.0  |
| nature                            | 0.2 | 0.0      | 0.0      | 0.0  |
| waterway                          | 0.0 | 0.0      | 0.0      | 0.0  |
| multipurpose                      | 0.0 | 0.0      | 0.0      | 0.0  |
| Equipped playing areas            | 5   | 7        | 0        | 0    |
| Regulation golf holes             | 0   | 0        | 0        | 0    |
| Swimming pools                    | 0   | 0        | 0        | 0    |
| Picnic sites:                     |     |          |          |      |
| shelters                          | 0   | 0        | 0        | 0    |
| tables                            | 21  | 31       | 2        | 11   |
| Historical, archaeological sites: |     |          |          |      |
| museums                           | 0   | 0        | 0        | 0    |
| other                             | 1   | 0        | 0        | 0    |
| Campsites:                        |     |          |          |      |
| RV <sup>a</sup> trailer acres     | 0.0 | 0.0      | 0.0      | 0.0  |
| tent acres                        | 0.0 | 0.0      | 0.0      | 0.0  |
| primitive acres                   | 0.0 | 0.0      | 0.0      | 0.0  |
| Marinas:                          |     |          |          |      |
| saltwater                         | 0   | 0        | 0        | 0    |
| freshwater                        | 0   | 0        | 0        | 0    |

Continued

Table R/T 16. Continued.

| Facility                | Ocalaosa | Santa Rosa | Walton |
|-------------------------|----------|------------|--------|
| Number of areas         | 29       | 5          | 8      |
| Number of acres:        |          |            |        |
| total                   | 187.1    | 39.0       | 29.1   |
| land                    | 147.4    | 39.0       | 29.1   |
| water                   | 28.7     | 0.0        | 0.0    |
| parking                 | 3.5      | 1.0        | 7.5    |
| developed               | 174.9    | 39.0       | 0.0    |
| undeveloped             | 1.2      | 0.0        | 0.0    |
| Buildings:              |          |            |        |
| recreation centers      | 0        | 2          | 0      |
| other                   | 6        | 0          | 1      |
| Playing fields:         |          |            |        |
| baseball                | 1        | 0          | 0      |
| junior baseball         | 2        | 0          | 0      |
| softball                | 0        | 2          | 0      |
| football                | 0        | 0          | 0      |
| Courts:                 |          |            |        |
| tennis                  | 2        | 5          | 0      |
| basketball              | 0        | 1          | 0      |
| shuffleboard            | 0        | 0          | 0      |
| handball                | 0        | 0          | 0      |
| Hunting acres:          |          |            |        |
| upland                  | 0.0      | 0.0        | 0.0    |
| water                   | 0.0      | 0.0        | 0.0    |
| Boat ramps:             |          |            |        |
| saltwater               | 3        | 3          | 2      |
| freshwater              | 5        | 0          | 6      |
| Piers:                  |          |            |        |
| saltwater               | 1        | 2          | 0      |
| freshwater              | 0        | 0          | 0      |
| Beach saltwater:        |          |            |        |
| footage (lin ft)        | 3,750    | 2,575      | 100    |
| area (ft <sup>2</sup> ) | 587,500  | 133,000    | 2,500  |
| Beach freshwater:       |          |            |        |
| footage (lin ft)        | 0        | 0          | 0      |
| area (ft <sup>2</sup> ) | 0        | 0          | 0      |

Continued

Table R/T 16. Concluded.

| Facility                          | Okaloosa | Santa Rosa | Walton |
|-----------------------------------|----------|------------|--------|
| Trails: (tenths of mi)            |          |            |        |
| hiking                            | 0.0      | 0.0        | 0.0    |
| bicycle                           | 0.0      | 0.0        | 0.0    |
| horseback                         | 0.0      | 0.0        | 0.0    |
| motorbike                         | 0.0      | 0.0        | 0.0    |
| nature                            | 0.0      | 0.0        | 0.0    |
| waterway                          | 0.0      | 0.0        | 0.0    |
| multipurpose                      | 0.0      | 0.0        | 0.0    |
| Equipped playing areas            | 1        | 0          | 1      |
| Regulation golf holes             | 0        | 0          | 0      |
| Swimming pools                    | 0        | 0          | 0      |
| Picnic sites:                     |          |            |        |
| shelters                          | 0        | 0          | 0      |
| tables                            | 130      | 46         | 16     |
| Historical, archaeological sites: |          |            |        |
| museums                           | 1        | 0          | 0      |
| other                             | 0        | 0          | 0      |
| Campsites:                        |          |            |        |
| RV trailer acres                  | 0.0      | 0.0        | 0.0    |
| tent acres                        | 0.0      | 0.0        | 0.0    |
| primitive acres                   | 0.0      | 0.0        | 0.0    |
| Marinas:                          |          |            |        |
| saltwater                         | 0        | 0          | 0      |
| freshwater                        | 0        | 0          | 0      |

<sup>a</sup> Recreational vehicle.

Table R/T 17. Municipal public recreation and park facility inventory in 1980 (Florida Department of Natural Resources 1980, Division of Recreation and Parks 1980c).

| Facility                | Bay     | Escambia | Franklin | Gulf |
|-------------------------|---------|----------|----------|------|
| Number of areas         |         |          |          |      |
| Number of acres:        | 39      | 89       | 16       | 7    |
| total                   | 238.8   | 508.1    | 37.7     | 42.5 |
| land                    | 220.9   | 508.1    | 34.7     | 42.5 |
| water                   | 17.9    | 0.0      | 3.0      | 0.0  |
| parking                 | 11.0    | 3.0      | 0.0      | 0.0  |
| developed               | 188.6   | 455.9    | 22.5     | 40.5 |
| undeveloped             | 47.2    | 48.0     | 15.2     | 2.0  |
| Buildings:              |         |          |          |      |
| recreation centers      | 8       | 14       | 0        | 3    |
| other                   | 3       | 7        | 0        | 4    |
| Playing fields:         |         |          |          |      |
| baseball                | 4       | 23       | 3        | 1    |
| junior baseball         | 10      | 6        | 0        | 8    |
| softball                | 10      | 15       | 0        | 2    |
| football                | 3       | 1        | 2        | 0    |
| Courts:                 |         |          |          |      |
| tennis                  | 22      | 24       | 2        | 6    |
| basketball              | 11      | 56       | 0        | 0    |
| shuffleboard            | 6       | 0        | 0        | 0    |
| handball                | 0       | 0        | 0        | 0    |
| Hunting acres:          |         |          |          |      |
| upland                  | 0.0     | 0.0      | 0.0      | 0.0  |
| water                   | 0.0     | 0.0      | 0.0      | 0.0  |
| Boat ramps:             |         |          |          |      |
| saltwater               | 3       | 1        | 0        | 1    |
| freshwater              | 0       | 2        | 1        | 0    |
| Piers:                  |         |          |          |      |
| saltwater               | 0       | 1        | 0        | 0    |
| freshwater              | 0       | 0        | 0        | 0    |
| Beach saltwater:        |         |          |          |      |
| footage (lin ft)        | 2,430   | 3,400    | 0        | 0    |
| area (ft <sup>2</sup> ) | 212,750 | 145,000  | 0        | 0    |
| Beach freshwater:       |         |          |          |      |
| footage (lin ft)        | 0       | 0        | 0        | 0    |
| area (ft <sup>2</sup> ) | 0       | 0        | 0        | 0    |

Continued

Table R/T 17. Continued.

| Facility                          | Bay | Escambia | Franklin | Gulf |
|-----------------------------------|-----|----------|----------|------|
| Trails: (tenths of mi)            |     |          |          |      |
| hiking                            | 0.0 | 1.0      | 0.0      | 0.0  |
| bicycle                           | 0.0 | 1.5      | 0.0      | 0.0  |
| horseback                         | 0.0 | 0.0      | 0.0      | 0.0  |
| motorbike                         | 0.0 | 0.0      | 0.0      | 0.0  |
| nature                            | 0.2 | 0.0      | 0.0      | 0.0  |
| waterway                          | 0.0 | 0.0      | 0.0      | 0.0  |
| multipurpose                      | 0.0 | 0.0      | 0.0      | 0.0  |
| Equipped playing areas            | 15  | 51       | 1        | 3    |
| Regulation golf holes             | 0   | 18       | 0        | 9    |
| Swimming pools                    | 1   | 0        | 0        | 0    |
| Picnic sites:                     |     |          |          |      |
| shelters                          | 38  | 21       | 2        | 7    |
| tables                            | 21  | 31       | 2        | 11   |
| Historical, archaeological sites: |     |          |          |      |
| museums                           | 0   | 0        | 0        | 0    |
| other                             | 2   | 2        | 2        | 0    |
| Campsites:                        |     |          |          |      |
| RV <sup>a</sup> trailer acres     | 0.0 | 0.0      | 0.0      | 0.0  |
| tent acres                        | 0.0 | 0.0      | 0.0      | 0.0  |
| primitive acres                   | 0.0 | 0.0      | 0.0      | 0.0  |
| Marinas:                          |     |          |          |      |
| saltwater                         | 0   | 0        | 0        | 0    |
| freshwater                        | 0   | 0        | 0        | 0    |

Continued

Table R/T 17. Continued.

| Facility                | Okaloosa | Santa Rosa | Walton |
|-------------------------|----------|------------|--------|
| Number of areas         | 46       | 8          | 8      |
| Number of acres:        |          |            |        |
| total                   | 325.7    | 194.9      | 57.7   |
| land                    | 319.3    | 193.9      | 42.7   |
| water                   | 6.4      | 1.0        | 15.0   |
| parking                 | 0.0      | 3.5        | 15.5   |
| developed               | 301.9    | 186.0      | 62.7   |
| undeveloped             | 23.8     | 10.4       | 0.0    |
| Buildings:              |          |            |        |
| recreation centers      | 9        | 1          | 1      |
| other                   | 6        | 0          | 0      |
| Playing fields:         |          |            |        |
| baseball                | 8        | 7          | 2      |
| junior baseball         | 13       | 2          | 0      |
| softball                | 12       | 2          | 0      |
| football                | 6        | 2          | 0      |
| Courts:                 |          |            |        |
| tennis                  | 35       | 12         | 2      |
| basketball              | 26       | 6          | 0      |
| shuffleboard            | 2        | 0          | 0      |
| handball                | 3        | 0          | 0      |
| Hunting acres:          |          |            |        |
| upland                  | 0.0      | 0.0        | 0.0    |
| water                   | 0.0      | 0.0        | 0.0    |
| Boat ramps:             |          |            |        |
| saltwater               | 1        | 7          | 2      |
| freshwater              | 0        | 0          | 2      |
| Piers:                  |          |            |        |
| saltwater               | 2        | 1          | 0      |
| freshwater              | 1        | 0          | 1      |
| Beach saltwater:        |          |            |        |
| footage (lin ft)        | 2,890    | 4,840      | 0      |
| area (ft <sup>2</sup> ) | 148,100  | 136,160    | 0      |
| Beach freshwater:       |          |            |        |
| footage (lin ft)        | 0        | 0          | 200    |
| area (ft <sup>2</sup> ) | 0        | 0          | 10,000 |

Continued

Table R/T 17. Concluded.

| Facility                          | Okaloosa | Santa Rosa | Walton |
|-----------------------------------|----------|------------|--------|
| Trails: (tenths of mi)            |          |            |        |
| hiking                            | 0.0      | 0.0        | 0.0    |
| bicycle                           | 0.0      | 0.0        | 0.0    |
| horseback                         | 0.0      | 0.0        | 0.0    |
| motorbike                         | 0.0      | 0.0        | 0.0    |
| nature                            | 1.0      | 0.5        | 0.0    |
| waterway                          | 0.0      | 0.0        | 0.0    |
| multipurpose                      | 0.0      | 0.0        | 0.0    |
| Equipped playing areas            | 21       | 2          | 7      |
| Regulation golf holes             | 27       | 0          | 0      |
| Swimming pools                    | 0        | 0          | 0      |
| Picnic sites:                     |          |            |        |
| shelters                          | 0        | 0          | 0      |
| tables                            | 141      | 30         | 16     |
| Historical, archaeological sites: |          |            |        |
| museums                           | 3        | 0          | 0      |
| other                             | 2        | 0          | 0      |
| Campsites:                        |          |            |        |
| RV trailer acres                  | 0.0      | 0.0        | 0.0    |
| tent acres                        | 0.0      | 0.0        | 0.0    |
| primitive acres                   | 0.0      | 0.0        | 0.0    |
| Marinas:                          |          |            |        |
| saltwater                         | 0        | 0          | 0      |
| freshwater                        | 0        | 0          | 0      |

<sup>a</sup> Recreational vehicle.



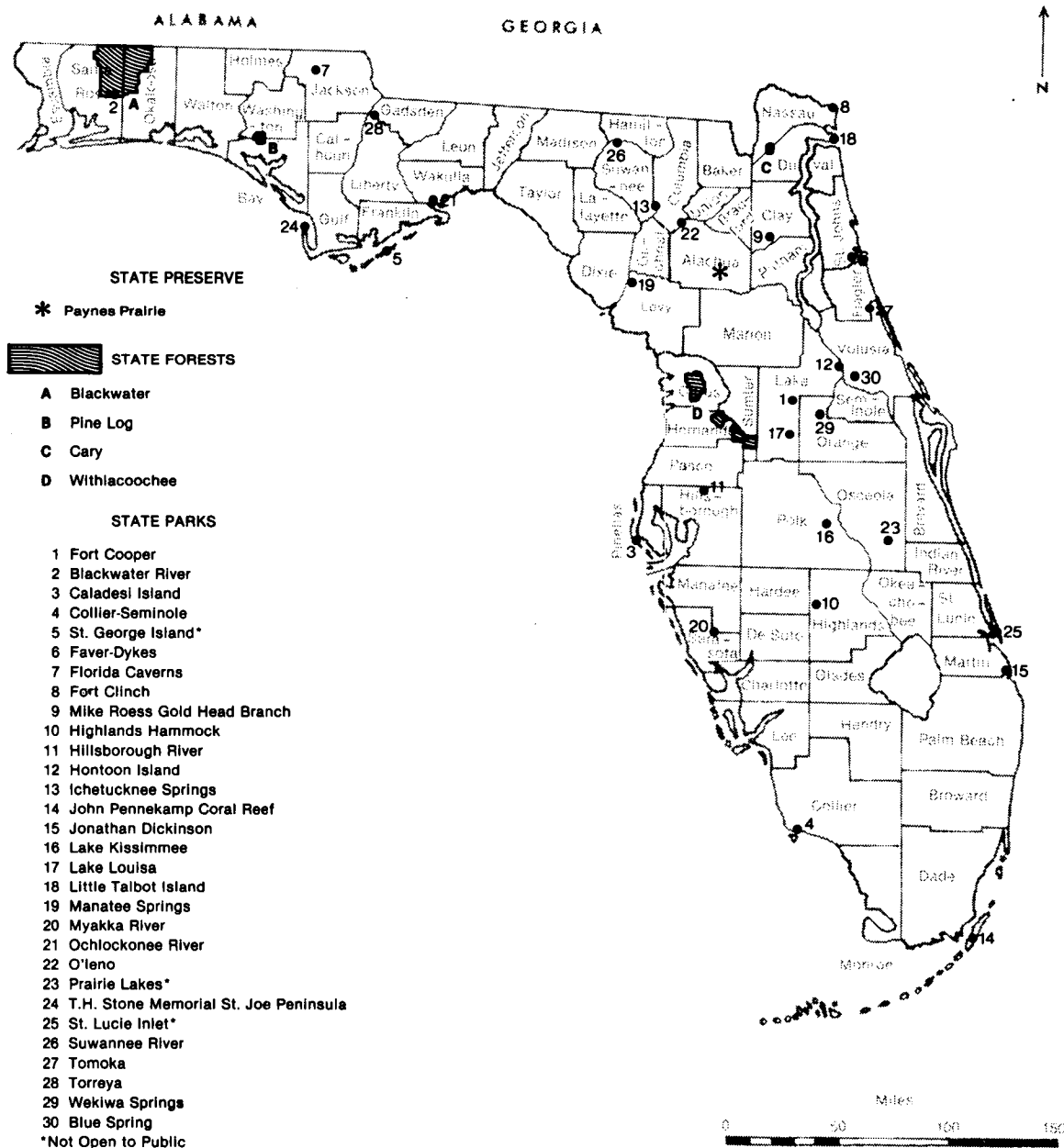


Figure 11. State preserves, forests, and parks (Florida Power and Light Co. 1979).

Table R/T 18. Private<sup>a</sup> recreation and park facility inventory in 1980 (Florida Department of Natural Resources 1980, Division of Recreation and Parks 1980c).

| Facility                | Bay   | Escambia | Franklin | Gulf |
|-------------------------|-------|----------|----------|------|
| Number of areas         | 7     | 60       | 19       | 25   |
| Number of acres:        |       |          |          |      |
| total                   | 394.6 | 2,832.3  | 114.4    | 16.0 |
| land                    | 242.4 | 1,656.9  | 88.00    | N.D. |
| water                   | 0.0   | 256.5    | 6.0      | N.D. |
| parking                 | 0.4   | 114.1    | 0.0      | N.D. |
| developed               | 50.2  | 1,026.2  | 21.0     | N.D. |
| undeveloped             | 5.1   | 534.0    | 0.0      | N.D. |
| Buildings:              |       |          |          |      |
| recreation centers      | 8     | 29       | 1        | 0    |
| other                   | 58    | 68       | 15       | 19   |
| Playing fields:         |       |          |          |      |
| baseball                | 0     | 0        | 0        | 0    |
| junior baseball         | 0     | 0        | 0        | 0    |
| softball                | 0     | 1        | 0        | 0    |
| football                | 0     | 1        | 0        | 0    |
| Courts:                 |       |          |          |      |
| tennis                  | 11    | 44       | 0        | 2    |
| basketball              | 2     | 9        | 0        | 0    |
| shuffleboard            | 3     | 2        | 0        | 0    |
| handball                | 0     | 2        | 0        | 0    |
| Hunting acres:          |       |          |          |      |
| upland                  | 0.0   | 0.0      | 0.0      | 0.0  |
| water                   | 0.0   | 510.0    | 0.0      | 0.0  |
| Boat ramps:             |       |          |          |      |
| saltwater               | 20    | 6        | 8        | 5    |
| freshwater              | 6     | 4        | 0        | 17   |
| Piers:                  |       |          |          |      |
| saltwater               | 6     | 3        | 4        | 1    |
| freshwater              | 3     | 5        | 0        | 0    |
| Beach saltwater:        |       |          |          |      |
| footage (lin ft)        | 610   | 405      | 1,300    | 10   |
| area (ft <sup>2</sup> ) | 50    | 25,000   | 9,000    | 50   |
| Beach freshwater:       |       |          |          |      |
| footage (lin ft)        | 0     | 355      | 5        | 0    |
| area (ft <sup>2</sup> ) | 0     | 23,025   | 25       | 0    |

Continued

Table R/T 18. Continued.

| Facility                          | Bay  | Escambia | Franklin | Gulf |
|-----------------------------------|------|----------|----------|------|
| Trails: (tenths of mi)            |      |          |          |      |
| hiking                            | 1.2  | 100.0    | 0.0      | 0.0  |
| bicycle                           | 0.0  | 0.0      | 0.0      | 0.0  |
| horseback                         | 0.0  | 1,010.0  | 0.0      | 0.0  |
| motorbike                         | 0.0  | 10.0     | 0.0      | 0.0  |
| nature                            | 0.1  | 14.0     | 0.0      | 0.0  |
| waterway                          | 0.0  | 20.0     | 0.0      | 0.0  |
| multipurpose                      | 0.0  | 0.1      | 0.0      | 0.0  |
| Equipped playing areas            | 11   | 2        | 1        | 0    |
| Regulation golf holes             | 201  | 2        | 9        | 18   |
| Swimming pools                    | 9    | 7        | 4        | 1    |
| Picnic sites:                     |      |          |          |      |
| shelters                          | 0    | 3        | 0        | 0    |
| tables                            | 19   | 50       | 8        | 0    |
| Historical, archaeological sites: |      |          |          |      |
| museums                           | 2    | 4        | 0        | 0    |
| other                             | 0    | 1        | 0        | 0    |
| Campsites:                        |      |          |          |      |
| RV <sup>D</sup> trailer acres     | 11.2 | 15.2     | 89.0     | 0.0  |
| tent acres                        | 4.0  | 9.5      | 0.0      | 0.0  |
| primitive acres                   | 6.0  | 486.0    | 0.0      | 0.0  |
| Marinas:                          |      |          |          |      |
| saltwater                         | 19   | 9        | 10       | 0    |
| freshwater                        | 1    | 0        | 0        | 0    |

Continued

Table R/T 18. Continued.

| Facility                | Okaloosa | Santa Rosa | Walton  |
|-------------------------|----------|------------|---------|
| Number of areas         | 50       | 32         | 18      |
| Number of acres:        |          |            |         |
| total                   | 2,118.7  | 1,138.2    | 2,131.0 |
| land                    | 1,873.8  | 1,069.0    | 1,560.0 |
| water                   | 54.0     | 68.5       | 549.0   |
| parking                 | 0.0      | 20.8       | 2.0     |
| developed               | 700.5    | 399.5      | 80.0    |
| undeveloped             | 659.0    | 707.5      | 0.0     |
| Buildings:              |          |            |         |
| recreation centers      | 15       | 9          | 12      |
| other                   | 39       | 25         | 14      |
| Playing fields:         |          |            |         |
| baseball                | 0        | 9          | 0       |
| junior baseball         | 0        | 6          | 0       |
| softball                | 0        | 0          | 0       |
| football                | 0        | 0          | 0       |
| Courts:                 |          |            |         |
| tennis                  | 32       | 14         | 3       |
| basketball              | 4        | 7          | 0       |
| shuffleboard            | 4        | 4          | 3       |
| handball                | 0        | 0          | 0       |
| Hunting acres:          |          |            |         |
| upland                  | 640.0    | 8,037.0    | 0.0     |
| water                   | 0.0      | 0.0        | 0.0     |
| Boat ramps:             |          |            |         |
| saltwater               | 4        | 8          | 1       |
| freshwater              | 2        | 3          | 12      |
| Piers:                  |          |            |         |
| saltwater               | 1        | 61         | 0       |
| freshwater              | 0        | 1          | 1       |
| Beach saltwater:        |          |            |         |
| footage (lin ft)        | 15       | 3,650      | 5       |
| area (ft <sup>2</sup> ) | 1,375    | 83,500     | 25      |
| Beach freshwater:       |          |            |         |
| footage (lin ft)        | 0        | 0          | 10      |
| area (ft <sup>2</sup> ) | 0        | 0          | 50      |

Continued

Table R/T 18. Concluded.

| Facility                          | Okaloosa | Santa Rosa | Walton |
|-----------------------------------|----------|------------|--------|
| Trails: (tenths of mi)            |          |            |        |
| hiking                            | 0.0      | 16.0       | 0.4    |
| bicycle                           | 0.0      | 0.0        | 0.0    |
| horseback                         | 0.0      | 0.0        | 0.1    |
| motorbike                         | 0.0      | 1.0        | 0.0    |
| nature                            | 1.0      | 0.5        | 0.0    |
| waterway                          | 55.0     | 0.0        | 0.0    |
| multipurpose                      | 0.0      | 0.0        | 0.0    |
| Equipped playing areas            | 4        | 3          | 3      |
| Regulation golf holes             | 26       | 18         | 18     |
| Swimming pools                    | 10       | 7          | 7      |
| Picnic sites:                     |          |            |        |
| shelters                          | 0        | 1          | 0      |
| tables                            | 185      | 62         | 32     |
| Historical, archaeological sites: |          |            |        |
| museums                           | 4        | 0          | 0      |
| other                             | 1        | 0          | 0      |
| Campsites:                        |          |            |        |
| RV trailer acres                  | 17.5     | 81.0       | 20.0   |
| tent acres                        | 1.3      | 4.0        | 20.0   |
| primitive acres                   | 0.0      | 10.0       | 1.0    |
| Marinas:                          |          |            |        |
| saltwater                         | 11       | 5          | 0      |
| freshwater                        | 0        | 0          | 1      |

<sup>a</sup> Includes non-profit with private or semi-private access, profit with public access and profit with private or semi-private access.

<sup>b</sup> Recreational vehicle.

Table R/T 19. The number of air and auto tourists in Florida in 1976, 1979 and 1980 (Florida Department of Commerce, Division of Tourism ca. 1977b, ca. 1980b, ca. 1981b).

| County     | 1976 <sup>a</sup> |           |           | 1979      |            |            | 1980 <sup>b</sup> |           |           |
|------------|-------------------|-----------|-----------|-----------|------------|------------|-------------------|-----------|-----------|
|            | Air               | Auto      | Total     | Air       | Auto       | Total      | Air               | Auto      | Total     |
| Bay        | 16,054            | 844,108   | 860,162   | 22,060    | 1,627,445  | 1,649,505  | 0                 | 743,900   | 743,900   |
| Escambia   | 4,188             | 1,370,049 | 1,374,237 | 7,664     | 1,188,945  | 1,196,609  | 0                 | 789,980   | 789,980   |
| Franklin   | 0                 | 26,392    | 26,392    | 10,200    | 23,946     | 34,146     | 0                 | 0         | 0         |
| Gulf       | 2,635             | 15,370    | 18,005    | 0         | 35,780     | 35,780     | 0                 | 0         | 0         |
| Okaloosa   | 1,257             | 1,611,369 | 1,612,626 | 9,898     | 1,026,690  | 1,036,588  | 0                 | 552,000   | 552,000   |
| Santa Rosa | 0                 | 127,102   | 127,102   | 0         | 143,785    | 143,785    | 0                 | 0         | 0         |
| Walton     | 0                 | 183,587   | 183,587   | 0         | 12,745     | 12,745     | 0                 | 0         | 0         |
| Region     | 24,134            | 4,177,977 | 4,202,111 | 49,822    | 4,059,336  | 4,409,158  | 0                 | 2,085,880 | 2,085,880 |
| Florida    | N.D.              | N.D.      | N.D.      | 3,494,380 | 11,024,787 | 14,519,167 | 2,347,800         | 5,810,980 | 8,158,780 |

<sup>a</sup> No data prior to 1976.

<sup>b</sup> 1980 data for first and second quarters only.

Table R/T 20. Number of visitors, visitor characteristics, and visitor expenditures in 1976<sup>a</sup> (Florida Department of Commerce, Division of Tourism ca. 1977a, ca. 1980, ca. 1981).

| County                | Number of visitors | % repeat visitors | Total expenditures (\$) | Expenditures per person per day (\$) | Nights spent in county |
|-----------------------|--------------------|-------------------|-------------------------|--------------------------------------|------------------------|
| Bay                   | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Escambia              | 1,349,728          | 82.83             | 136,055,622             | 22.62                                | 4.58                   |
| Franklin              | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Gulf                  | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Okaloosa <sup>b</sup> | 1,364,868          | 82.0              | 90,496,399              | 17.10                                | 4.1                    |
| Santa Rosa            | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Walton                | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Region                | 2,714,596          | N.D.              | 226,552,021             | N.D.                                 | N.D.                   |
| Florida               | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |

<sup>a</sup> By auto survey, this type survey was not conducted prior to 1976.

<sup>b</sup> Figures based on three quarters only; fourth quarter data not available.

Table R/T 21. Number of visitors, visitor characteristics, and visitor expenditures in 1979<sup>a</sup> (Florida Department of Commerce, Division of Tourism ca. 1980b).

| County                | Number of visitors | % repeat visitors | Total expenditures (\$) | Expenditures per person per day (\$) | Nights spent in county |
|-----------------------|--------------------|-------------------|-------------------------|--------------------------------------|------------------------|
| Bay                   | 1,463,100          | 93.08             | 209,878,477             | 25.81                                | 6.03                   |
| Escambia              | 1,557,500          | 86.53             | 211,993,050             | 32.72                                | 4.13                   |
| Franklin              | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Gulf                  | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Okaloosa <sup>b</sup> | 859,600            | 89.8              | 150,964,869             | 29.98                                | 5.70                   |
| Santa Rosa            | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Walton                | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Region                | 3,880,200          | N.D.              | 572,836,396             | N.D.                                 | N.D.                   |
| Florida               | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |

<sup>a</sup> By auto survey.

<sup>b</sup> Figures based on three quarters only; fourth quarter data not available.



Table R/T 22. Number of visitors, visitor characteristics, and visitor expenditures in 1980<sup>a</sup> (Florida Department of Commerce, Division of Tourism ca. 1980b).

| County                | Number of visitors | % repeat visitors | Total expenditures (\$) | Expenditures per person per day (\$) | Nights spent in county |
|-----------------------|--------------------|-------------------|-------------------------|--------------------------------------|------------------------|
| Bay <sup>b</sup>      | 1,208,100          | 93.3              | 164,328,740             | 25.95                                | 5.3                    |
| Escambia <sup>b</sup> | 1,432,100          | 88.7              | 200,485,881             | 32.78                                | 4.2                    |
| Franklin              | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Gulf                  | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Okaloosa <sup>c</sup> | 359,400            | 91.5              | 55,042,110              | 30.63                                | 5.0                    |
| Santa Rosa            | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Walton                | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |
| Region                | 2,999,500          | N.D.              | 419,856,731             | N.D.                                 | N.D.                   |
| Florida               | N.D.               | N.D.              | N.D.                    | N.D.                                 | N.D.                   |

<sup>a</sup> By auto survey.

<sup>b</sup> Figures based on three quarters only; fourth quarter data not available.

<sup>c</sup> Figures based on second quarter data only.

**NATIONAL SEASHORES**

- 1 Gulf Islands
- 2 Canaveral

**NATIONAL MEMORIALS, MONUMENTS AND HISTORIC SITES**

- 3 Fort Caroline
- 4 Castillo de San Marco
- 5 Fort Matanzas
- 6 Desoto
- 7 Mar-a-Largo
- 8 Fort Jefferson

**NATIONAL MARINE SANCTUARIES**

- 9 Key Largo Coral Reef
- 10 Looe Key

**NATIONAL WILDERNESS AREAS**

- 11 Bradwell Bay
- 12 Cedar Keys
- 13 Florida Keys
- 14 Island Bay
- 15 Passage Key
- 16 Pelican Island
- 17 St. Marks
- 18 Chassahowitzka
- 19 J.N. "Ding" Darling
- 20 Lake Woodruff

**NATIONAL FORESTS**

- 21 Apalachicola
- 22 Osceola
- 23 Ocala

**NATIONAL PARKS**

- 24 Everglades
- 25 Biscayne

**NATIONAL PRESERVE**

- 26 Big Cypress

**NATIONAL WILDLIFE REFUGES**

- 27 St. Vincent Island
- 28 St. Marks
- 29 Cedar Key
- 30 Lake Woodruff
- 31 Chassahowitzka
- 32 Merritt Island
- 33 Pig Island
- 34 Pelican Island
- 35 Pinellas
- 36 Passage Key
- 37 Hobe Sound
- 38 Island Bay
- 39 Caloosahatchee
- 40 Pine Island
- 41 Matlacha Pass
- 42 Jay N. "Ding" Darling
- 43 Loxahatchee
- 44 National Key Deer
- 45 Great White Heron
- 46 Key West
- 47 St. Johns
- 48 Egmont Key
- 49 Okefenokee
- 50 Lower Suwannee

**NATIONAL ESTUARINE SANTUARIES**

- 51 Apalachicola Bay
- 52 Rookery Bay

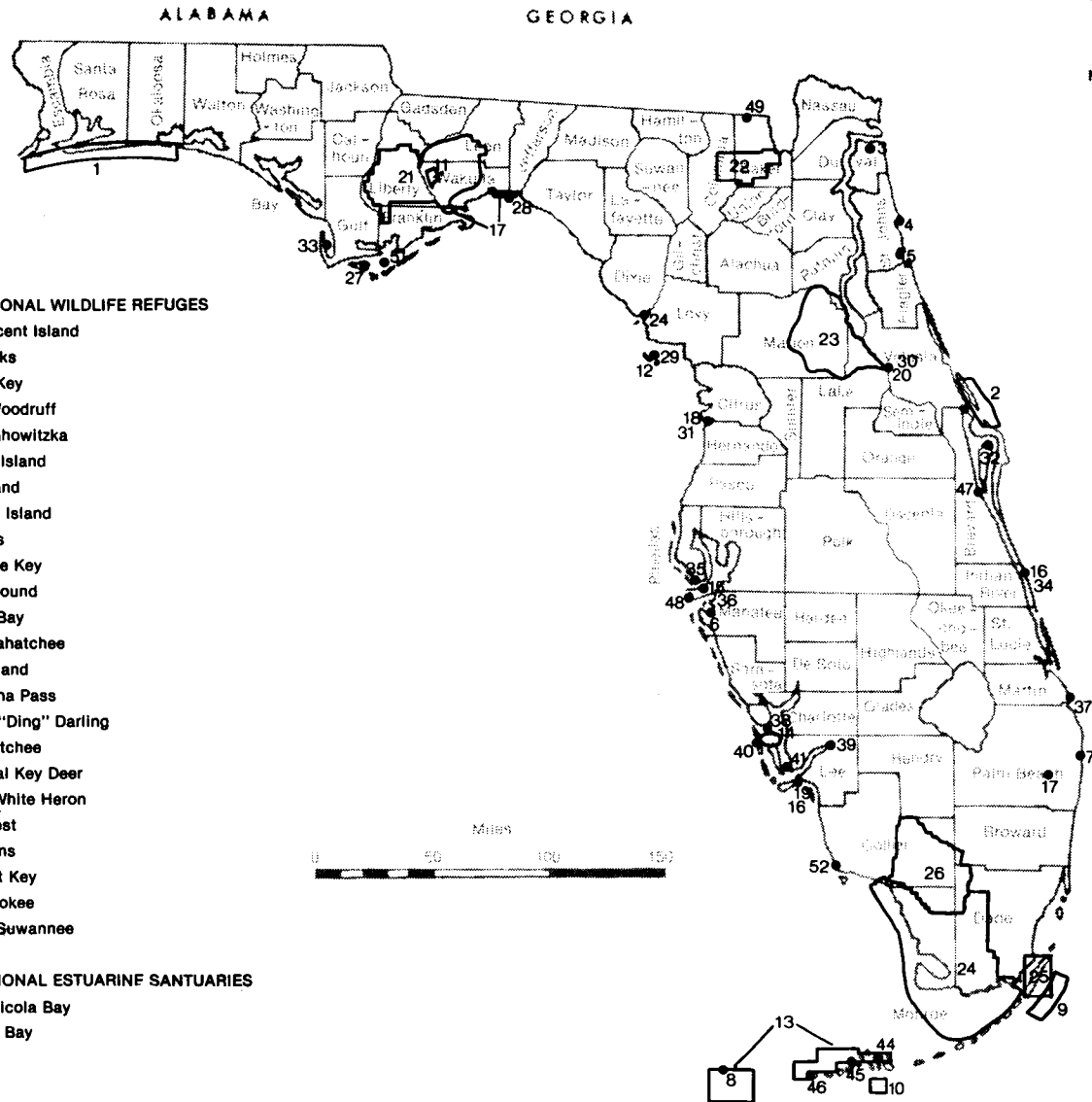


Figure 12. National seashores, memorials, monuments, historic sites, marine sanctuaries, estuarine sanctuaries, wilderness areas, forests, parks, wildlife refuges, and preserves (Florida Power and Light Co. 1979).

Table R/T 23. Number of assigned archaeological and historical sites in November 1980 (Florida Department of State, Bureau of Historic Sites and Properties 1980).

| County     | Number of sites |
|------------|-----------------|
| Bay        | 168             |
| Escambia   | 225             |
| Franklin   | 355             |
| Gulf       | 18              |
| Okaloosa   | 133             |
| Santa Rosa | 76              |
| Walton     | 104             |
| Region     | 1,079           |
| Florida    | N.D.            |



Figure 13. State Aquatic Preserves (Florida Power and Light Co. 1979).

Table R/T 24. Historic sites in northwestern Florida listed on the National Register (U.S. Department of the Interior, Heritage Conservation and Recreation Service 1979).

| County and name of site   | Date listed       |
|---|-------------------|
| <b>Escambia</b>   |                   |
| American National Bank Building                                 | 17 November 1978  |
| Clara Barkley Dorr House  | 24 July 1974      |
| Fort George Site  | 8 July 1974       |
| Fort San Carlos de Barrancas                                    | 15 October 1966   |
| Charles William Jones House                                     | 20 December 1977  |
| LaN Marine Terminal Building                                    | 14 August 1972    |
| Lavalle House   | 11 March 1971     |
| Old Christ Church   | 3 May 1974        |
| Pensacola Athletic Club (Rafford Hall)                          | 16 April 1975     |
| Pensacola Historic District                                     | 29 September 1970 |
| Pensacola Lighthouse and Keeper's Quarters                      | 15 September 1974 |
| Pensacola Naval Air Station Historic District                   | 8 December 1976   |
| Plaza Ferdinand VII   | 15 October 1966   |
| Saenger Theater   | 19 July 1976      |
| Buccaneer (Virginia)  | 2 November 1972   |
| St. Michael's Creole Benevolent Association Hall                | 3 May 1974        |
| Fort Pickens  | 31 May 1972       |
| Louisville and Nashville Passenger Station and Express Building | 11 June 1979      |
| St. Joseph's Church Buildings                                   | 10 July 1979      |
| Thiesen Building  | 13 December 1979  |
| Perdido Key Historic District                                   | 10 March 1980     |
| <b>Franklin</b>   |                   |
| David G. Raney House  | 22 September 1976 |
| Trinity Episcopal Church  | 30 June 1972      |
| Pierce Site   | 11 January 1974   |
| Crooked River Lighthouse  | 1 December 1978   |
| Porter's Bar Site   | 23 January 1975   |
| Cape St. George Light   | 10 September 1974 |
| Yent Mound  | 24 May 1973       |
| Fort Gadsen Historic Memorial<br>(Negro Fort; British Fort)     | 23 February 1972  |
| <b>Okaloosa</b>   |                   |
| Fort Walton Mound   | 15 October 1966   |
| Valparaiso Inn  | 1 August 1978     |
| <b>Walton</b>   |                   |
| DeFuniak Springs  | 7 August 1972     |
| Sun Bright (Sidney Johnson Catts House)                         | 7 May 1979        |

Table R/T 25. Recreational properties under the jurisdiction of the Florida Department of Natural Resources 1980 (Florida Department of Natural Resources, Division of Recreation and Parks 1980b).

| Location and name of site                                  | Acres  |           | Type of facility | Operational status           |
|--|--------|-----------|------------------|------------------------------|
|  | Upland | Submerged |                  |                              |
| Bay County   |        |           |                  |                              |
| St. Andrews State Park                                     | 1,063  | 0         | Recreational     | Optimal                      |
| Escambia County  |        |           |                  |                              |
| Big Lagoon State Recreation Area                           | 699    | 0         | Recreational     | Operational partly developed |
| Perdido Key State Preserve                                 | 247    | 0         | Preserve         | Under formal design          |
| Franklin County  |        |           |                  |                              |
| Cape St. George State Preserve                             | 2,295  | 0         | Preserve         | In reserve <sup>a</sup>      |
| Dr. Julian G. Bruce St. George Island State Park           | 1,963  | 0         | Park             | Operational partly developed |
| Fort Gadsden State Historic Site <sup>b</sup>              | 76     | 0         | Historic         | Operational partly developed |
| John Gorrie State Museum                                   | 1      | 0         | Museum           | Optimal                      |
| Gulf County  |        |           |                  |                              |
| Constitution Convention State Museum                       | 14     | 0         | Museum           | Optimal                      |
| Dead Lakes State Recreation Area                           | 66     | 18        | Recreational     | Optimal                      |
| Okaloosa County  |        |           |                  |                              |
| Fred Gannon Rocky Bayou State Recreation Area <sup>c</sup> | 632    | 0         | Recreational     | Operational partly developed |

Continued

Table R/T 25. Concluded.

| Location and name of site                                       | Acres  |           | Type of facility  | Operational status              |
|---|--------|-----------|-------------------|---------------------------------|
|   | Upland | Submerged |                   |                                 |
| Santa Rosa County<br>Blackwater River State Park                | 360    | 0         | Park              | Operational<br>partly developed |
| Walton County<br>Basin Bayou State Recreation Area <sup>d</sup> | 287    | 0         | Recreational      | Operational<br>partly developed |
| Eden State Gardens  | 12     | 0         | Ornamental Garden | Operational<br>partly developed |
| Grayton Beach State Recreation Area                             | 276    | 80        | Recreational      | Operational<br>partly developed |
| Ponce de Leon Springs State Recreation Area <sup>e</sup>        | 433    | 0         | Recreational      | Operational<br>partly developed |

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<sup>a</sup> Being held for future use pending sufficient increase in need or other conducive circumstances.  
<sup>b</sup> Owned by U.S. Department of Agriculture. The Department of Natural Resources has a special use permit until 18 May 1991.  
<sup>c</sup> Leased from U.S. Air Force, expires 30 June 1982.  
<sup>d</sup> Leased from U.S. Air Force, expires 30 June 1984.  
<sup>e</sup> Includes Holmes County.

Table R/T 26. Visitor utilization of recreational properties under the jurisdiction of the Florida Department of Natural Resources for fiscal years 1965-66, 1970-71, 1974-75 and 1979-80 (Florida Department of Natural Resources, Division of Recreation and Parks 1980a).

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| Location and name of site                        | Number of visitors |         |         |                      |
|--|--------------------|---------|---------|----------------------|
|  | 1965-66            | 1970-71 | 1974-75 | 1979-80              |
| Bay County                                       |                    |         |         |                      |
| St. Andrews State Recreation Area                | 617,587            | 526,669 | 503,430 | 559,459 <sup>a</sup> |
| Escambia County                                  |                    |         |         |                      |
| Big Lagoon State Recreation Area                 | N.A.               | N.A.    | N.A.    | 21,411 <sup>b</sup>  |
| Perdidio Key State Preserve                      | N.A.               | N.A.    | N.A.    | N.A.                 |
| Franklin County                                  |                    |         |         |                      |
| Cape St. George State Preserve                   | N.A.               | N.A.    | N.A.    | N.A.                 |
| Dr. Julian G. Bruce St. George Island State Park | N.A.               | N.A.    | N.A.    | 65,746 <sup>b</sup>  |
| Ft. Gadsden State Historic Site                  | 3,336              | 5,055   | 5,369   | 5,915                |
| John Gorrie State Museum                         | 8,769              | 6,927   | 12,800  | 12,457 <sup>a</sup>  |
| Gulf County                                      |                    |         |         |                      |
| Constitution Convention State Museum             | 5,511              | 4,330   | 8,044   | 6,147 <sup>a</sup>   |
| Dead Lakes State Recreation Area                 | N.A.               | N.A.    | 17,852  | 22,659 <sup>b</sup>  |
| Okaloosa County                                  |                    |         |         |                      |
| Fred Gannon Rocky Bayou State Recreation Area    | N.A.               | 50,851  | 48,799  | 29,908 <sup>b</sup>  |

Continued



Table R/T 26. Concluded.

| Location and<br>name of site                          | Number of visitors |         |         |                     |
|---|--------------------|---------|---------|---------------------|
|   | 1965-66            | 1970-71 | 1974-75 | 1979-80             |
| Santa Rosa County<br>Blackwater River<br>State Park   | N.A.               | 32,041  | 51,010  | 32,413 <sup>b</sup> |
| Walton County<br>Basin Bayou State<br>Recreation Area | N.A.               | 43,493  | 33,792  | 17,099 <sup>b</sup> |
| Eden State Gardens                                    | N.A.               | 13,891  | 30,474  | 32,341 <sup>a</sup> |
| Grayton Beach State<br>Recreation Area                | N.A.               | 80,410  | 35,137  | 43,015 <sup>b</sup> |
| Ponce de Leon Springs<br>State Recreation Area        | N.A.               | N.A.    | 14,765  | 33,906 <sup>a</sup> |

<sup>a</sup> Actual year-round full time entrance station figures.

<sup>b</sup> Seasonal sample counts.

Table R/T 27. Florida boat registrations by type of vessel for FY 1965-66<sup>a</sup>  
 (Florida Department of Natural Resources, Division of Administration 1980).

| County     | Commercial | Pleasure | Total   |
|------------|------------|----------|---------|
| Bay        | 857        | 2,496    | 3,353   |
| Escambia   | 622        | 4,364    | 4,986   |
| Franklin   | 975        | 90       | 1,065   |
| Gulf       | 483        | 385      | 868     |
| Okaloosa   | 320        | 2,194    | 2,514   |
| Santa Rosa | 323        | 873      | 1,196   |
| Walton     | 288        | 259      | 547     |
| Region     | 3,868      | 10,661   | 14,529  |
| Florida    | 32,927     | 136,706  | 169,633 |

<sup>a</sup> Registration of boats in Florida began in 1959. No data prior to 1965.

Table R/T 28. Florida boat registrations by type of vessel for FY 1970-71  
 (Florida Department of Natural Resources, Division of Administration 1980).

| County     | Commercial | Pleasure | Total                |
|------------|------------|----------|----------------------|
| Bay        | 986        | 3,832    | 4,818                |
| Escambia   | 488        | 6,774    | 7,262                |
| Franklin   | 878        | 204      | 1,082                |
| Gulf       | 340        | 555      | 895                  |
| Okaloosa   | 297        | 3,506    | 3,803                |
| Santa Rosa | 209        | 1,414    | 1,623                |
| Walton     | 226        | 438      | 664                  |
| Region     | 3,424      | 16,723   | 20,147               |
| Florida    | 27,197     | 206,896  | 234,093 <sup>a</sup> |

<sup>a</sup> Includes 1,200 documented pleasure yachts.

Table R/T 29. Florida boat registrations by type of vessel for FY 1975-76  
(Florida Department of Natural Resources, Division of Administration 1980).

| County     | Commercial | Pleasure | Total                |
|------------|------------|----------|----------------------|
| Bay        | 969        | 8,342    | 9,311                |
| Escambia   | 642        | 11,619   | 12,261               |
| Franklin   | 920        | 523      | 1,443                |
| Gulf       | 307        | 1,055    | 1,362                |
| Okaloosa   | 361        | 6,760    | 7,121                |
| Santa Rosa | 286        | 4,018    | 4,304                |
| Walton     | 141        | 1,432    | 1,573                |
| Region     | 3,626      | 33,749   | 37,375               |
| Florida    | 26,784     | 390,681  | 436,348 <sup>a</sup> |

<sup>a</sup> Includes 18,883 registered boats which did not appear on county listings due to Department of Natural Resources computer problems.

Table R/T 30. Florida boat registrations by type of vessel for FY 1978-79  
(Florida Department of Natural Resources, Division of Administration 1980).

| County     | Commercial | Pleasure | Total                |
|------------|------------|----------|----------------------|
| Bay        | 786        | 9,188    | 9,974                |
| Escambia   | 463        | 13,205   | 13,668               |
| Franklin   | 874        | 702      | 1,576                |
| Gulf       | 197        | 1,240    | 1,437                |
| Okaloosa   | 273        | 8,128    | 8,401                |
| Santa Rosa | 328        | 4,958    | 5,286                |
| Walton     | 90         | 1,704    | 1,794                |
| Region     | 3,011      | 39,125   | 42,136               |
| Florida    | 20,477     | 453,500  | 480,953 <sup>a</sup> |

<sup>a</sup> Includes 2,535 state, county and city-owned boats and 4,441 miscellaneous boats.

Table R/T 31. Leading metropolitan markets for outboard motors in 1978 and 1979  
(Boating Industry, The Boating Business 1979).

| City                          | Estimated<br>unit sales |        | Estimated<br>motors owned<br>31 Dec. 1979 |
|-------------------------------|-------------------------|--------|---|
|                               | 1978                    | 1979   |   |
| Minneapolis-St. Paul, MN      | 14,300                  | 10,300 | 224,000                                   |
| Chicago, IL                   | 8,500                   | 6,700  | 171,000                                   |
| Detroit, MI                   | 7,700                   | 6,400  | 139,000                                   |
| Nassau, Suffolk, NY           | 8,800                   | 6,200  | 173,000                                   |
| Dallas, Fort Worth, TX        | 6,000                   | 5,800  | 127,000                                   |
| Houston, TX                   | 6,100                   | 5,800  | 131,000                                   |
| Seattle, Everett, WA          | 5,400                   | 5,300  | 92,000                                    |
| Tampa, St. Petersburg, FL     | 5,500                   | 5,200  | 108,000                                   |
| Milwaukee, WI                 | 6,400                   | 4,900  | 131,000                                   |
| Los Angeles, Long Beach, CA   | 3,800                   | 4,100  | 89,000                                    |
| Philadelphia, PA              | 4,000                   | 3,900  | 72,000                                    |
| New Orleans, LA               | 4,500                   | 3,900  | 88,000                                    |
| Miami, FL                     | 4,500                   | 3,300  | 84,000                                    |
| Baltimore, MD                 | 4,000                   | 3,100  | 76,000                                    |
| New York, NY                  | 3,200                   | 3,100  | 75,000                                    |
| St. Louis, MO                 | 2,400                   | 2,900  | 69,000                                    |
| Atlanta, GA                   | 3,600                   | 2,800  | 53,000                                    |
| Pittsburg, PA                 | 1,900                   | 2,800  | 37,000                                    |
| San Francisco, Oakland, CA    | 3,300                   | 2,600  | 64,000                                    |
| Boston, MA                    | 3,100                   | 2,600  | 80,000                                    |
| Kansas, City, MO              | 2,600                   | 2,600  | 52,000                                    |
| District of Columbia          | 3,300                   | 2,500  | 55,000                                    |
| Oklahoma City, OK             | 2,700                   | 2,500  | 38,000                                    |
| Phoenix, AZ                   | 2,400                   | 2,500  | 42,000                                    |
| Portland, OR                  | 2,300                   | 2,500  | 47,000                                    |
| Jacksonville, FL              | 3,300                   | 2,400  | 53,000                                    |
| Orlando, FL                   | 2,500                   | 2,400  | 45,000                                    |
| Fort Myers, FL                | 2,200                   | 2,200  | 33,000                                    |
| Tulsa, OK                     | 2,500                   | 2,100  | 44,000                                    |
| W. Palm Beach, Boca Raton, FL | 1,600                   | 2,000  | 29,000                                    |
| Duluth, Superior, MN          | 2,800                   | 1,900  | 48,000                                    |
| Indianapolis, IN              | 1,900                   | 1,900  | 41,000                                    |
| Charleston, SC                | 2,300                   | 1,800  | 37,000                                    |

Continued

Table R/T 31. Concluded.

| City                         | Estimated<br>unit sales |       | Estimated<br>motors owned<br>31 Dec. 1979 |
|------------------------------|-------------------------|-------|---|
|                              | 1978                    | 1979  |   |
| Ft. Lauderdale-Hollywood, FL | 2,100                   | 1,800 | 45,000                                    |
| Memphis, TN                  | 2,300                   | 1,700 | 49,000                                    |
| Knoxville, TN                | 1,900                   | 1,700 | 29,000                                    |
| San Antonio, TX              | 1,800                   | 1,700 | 29,000                                    |
| Cleveland, OH                | 2,300                   | 1,600 | 42,000                                    |
| Mobile, AL                   | 2,300                   | 1,600 | 33,000                                    |
| Birmingham, AL               | 1,800                   | 1,500 | 41,000                                    |
| Baton Rouge, LA              | 2,700                   | 1,400 | 44,000                                    |
| Shreveport, LA               | 2,100                   | 1,400 | 41,000                                    |
| Buffalo, NY                  | 2,000                   | 1,400 | 39,000                                    |
| Flint, MI                    | 1,600                   | 1,400 | 32,000                                    |
| Norfolk, Virginia Beach, VA  |                         |       |   |
| Portsmouth, VA               | 2,000                   | 1,300 | 31,000                                    |
| Little Rock, AR              | 1,800                   | 1,300 | 34,000                                    |
| Louisville, KY               | 1,800                   | 1,300 | 31,000                                    |
| Grand Rapids, MI             | 1,700                   | 1,200 | 28,000                                    |
| Lake Charles, LA             | 1,700                   | 1,000 | 19,000                                    |
| Pensacola, FL                | 2,400                   | 1,000 | 31,000                                    |

Table R/T 32. Hunting and fishing licenses issued in FY 1954-55 (Florida Game and Fresh Water Fish Commission 1980a, 1980b).

| County     | Resident statewide fishing | Non-resident statewide fishing | Non-resident 14-day statewide fishing | Resident county hunting |
|------------|----------------------------|--------------------------------|---------------------------------------|-------------------------|
| Bay        | 5,369                      | 47                             | 507                                   | 408                     |
| Escambia   | 7,198                      | 30                             | 169                                   | 3,054                   |
| Franklin   | 878                        | 133                            | 1,398                                 | 477                     |
| Gulf       | 5,878                      | 568                            | 3,926                                 | 755                     |
| Okaloosa   | 2,632                      | 75                             | 219                                   | 2,557                   |
| Santa Rosa | 1,292                      | 21                             | 106                                   | 1,679                   |
| Walton     | 1,685                      | 331                            | 699                                   | 1,562                   |
| Region     | 24,932                     | 6,205                          | 7,024                                 | 10,492                  |
| Florida    | N.D.                       | N.D.                           | N.D.                                  | N.D.                    |

Continued

Table R/T 32. Concluded.

| County     | Resident statewide hunting | Non-resident statewide hunting | Non-resident 10-day hunting |
|------------|----------------------------|--------------------------------|-----------------------------|
| Bay        | 2,127                      | 3                              | 21                          |
| Escambia   | 3,111                      | 4                              | 10                          |
| Franklin   | 195                        | 0                              | 34                          |
| Gulf       | 478                        | 9                              | 40                          |
| Okaloosa   | 1,219                      | 20                             | 75                          |
| Santa Rosa | 539                        | 1                              | 11                          |
| Walton     | 397                        | 27                             | 22                          |
| Region     | 8,066                      | 64                             | 213                         |
| Florida    | N.D.                       | N.D.                           | N.D.                        |

Table R/T 33. Hunting and fishing licenses issued in FY 1959-60 (Florida and Game and Fresh Water Fish Commission 1980a, 1980b).

| County     | Resident statewide fishing | Non-resident statewide fishing | Non-resident 14-day statewide fishing | Resident county hunting |
|------------|----------------------------|--------------------------------|---------------------------------------|-------------------------|
| Bay        | 7,297                      | 26                             | 49                                    | 519                     |
| Escambia   | 8,663                      | 9                              | 32                                    | 3,629                   |
| Franklin   | 778                        | 25                             | 25                                    | 448                     |
| Gulf       | 5,347                      | 127                            | 136                                   | 638                     |
| Okaloosa   | 3,783                      | 13                             | 45                                    | 2,438                   |
| Santa Rosa | 2,658                      | 3                              | 36                                    | 2,100                   |
| Walton     | 2,375                      | 369                            | 26                                    | 1,680                   |
| Region     | 30,901                     | 572                            | 349                                   | 11,452                  |
| Florida    | N.D.                       | N.D.                           | N.D.                                  | N.D.                    |

Continued



Table R/T 33. Concluded.

| County     | Resident<br>statewide hunting | Non-resident<br>statewide hunting | Non-resident<br>10-day hunting |
|------------|-------------------------------|-----------------------------------|--------------------------------|
| Bay        | 2,661                         | 5                                 | 17                             |
| Escambia   | 3,993                         | 3                                 | 17                             |
| Franklin   | 222                           | 1                                 | 31                             |
| Gulf       | 719                           | 3                                 | 29                             |
| Okaloosa   | 1,572                         | 6                                 | 36                             |
| Santa Rosa | 861                           | 4                                 | 10                             |
| Walton     | 845                           | 25                                | 30                             |
| Region     | 10,873                        | 47                                | 170                            |
| Florida    | N.D.                          | N.D.                              | N.D.                           |

Table R/T 34. Hunting and fishing licenses issued in FY 1964-65 (Florida Game and Fresh Water Fish Commission 1980a, 1980b).

| County     | Resident statewide fishing | Non-resident statewide fishing | Non-resident 14-day statewide fishing | Non-resident 5-day statewide fishing |
|------------|----------------------------|--------------------------------|---------------------------------------|--------------------------------------|
| Bay        | 7,414                      | 73                             | 98                                    | 951                                  |
| Escambia   | 9,107                      | 70                             | 38                                    | 222                                  |
| Franklin   | 659                        | 59                             | 12                                    | 1,388                                |
| Gulf       | 4,540                      | 237                            | 127                                   | 2,265                                |
| Okaloosa   | 5,200                      | 27                             | 46                                    | 208                                  |
| Santa Rosa | 4,086                      | 45                             | 28                                    | 286                                  |
| Walton     | 3,246                      | 1,933                          | 133                                   | 2,806                                |
| Region     | 34,252                     | 2,444                          | 482                                   | 8,126                                |
| Florida    | N.D.                       | N.D.                           | N.D.                                  | N.D.                                 |

Continued

Table R/T 34. Concluded.

| County     | Resident<br>county hunting | Resident<br>statewide hunting | Non-resident<br>statewide hunting | Non-resident<br>10-day hunting |
|------------|----------------------------|-------------------------------|-----------------------------------|--------------------------------|
| Bay        | 650                        | 3,398                         | 7                                 | 20                             |
| Escambia   | 4,118                      | 5,706                         | 16                                | 23                             |
| Franklin   | 461                        | 377                           | 1                                 | 29                             |
| Gulf       | 563                        | 911                           | 1                                 | 11                             |
| Okaloosa   | 2,969                      | 2,370                         | 12                                | 34                             |
| Santa Rosa | 2,790                      | 1,326                         | 22                                | 23                             |
| Walton     | 1,969                      | 1,259                         | 13                                | 36                             |
| Region     | 13,520                     | 15,347                        | 72                                | 176                            |
| Florida    | N.D.                       | N.D.                          | N.D.                              | N.D.                           |

Table R/T 35. Hunting and fishing licenses issued in FY 1969-70 (Florida Game and Fresh Water Fish Commission 1980a, 1980b).

| County     | Resident statewide fishing | Non-resident statewide fishing | Non-resident 14-day statewide fishing | Non-resident 5-day statewide fishing |
|------------|----------------------------|--------------------------------|---------------------------------------|--------------------------------------|
| Bay        | 7,414                      | 73                             | 98                                    | 951                                  |
| Escambia   | 9,107                      | 70                             | 38                                    | 222                                  |
| Franklin   | 659                        | 59                             | 12                                    | 1,388                                |
| Gulf       | 4,540                      | 237                            | 127                                   | 2,265                                |
| Okaloosa   | 5,200                      | 27                             | 46                                    | 208                                  |
| Santa Rosa | 4,086                      | 45                             | 28                                    | 286                                  |
| Walton     | 3,246                      | 1,933                          | 133                                   | 2,806                                |
| Region     | 34,252                     | 2,444                          | 482                                   | 8,126                                |
| Florida    | N.D.                       | N.D.                           | N.D.                                  | N.D.                                 |

Continued

Table R/T 35. Concluded.

| County     | Private hunting preserve | Resident county hunting | Resident statewide hunting | Non-resident statewide hunting | Non-resident 10-day hunting |
|------------|--------------------------|-------------------------|----------------------------|--------------------------------|-----------------------------|
| Bay        | 5                        | 588                     | 4,769                      | 11                             | 74                          |
| Escambia   | 0                        | 4,345                   | 6,218                      | 29                             | 38                          |
| Franklin   | 0                        | 359                     | 405                        | 3                              | 18                          |
| Gulf       | 0                        | 497                     | 962                        | 3                              | 31                          |
| Okaloosa   | 0                        | 2,510                   | 3,656                      | 19                             | 43                          |
| Santa Rosa | 0                        | 2,346                   | 1,605                      | 10                             | 17                          |
| Walton     | 0                        | 1,657                   | 935                        | 10                             | 15                          |
| Region     | 5                        | 12,302                  | 18,550                     | 85                             | 236                         |
| Florida    | N.D.                     | N.D.                    | N.D.                       | N.D.                           | N.D.                        |

Table R/T 36. Hunting and fishing licenses issued in FY 1974-75 (Florida Game and Fresh Water Fish Commission 1980a, 1980b).

| County     | Resident statewide fishing | Non-resident statewide fishing | Non-resident 14-day statewide fishing | Non-resident 5-day statewide fishing |
|------------|----------------------------|--------------------------------|---------------------------------------|--------------------------------------|
| Bay        | 13,260                     | 195                            | 154                                   | 1,381                                |
| Escambia   | 12,928                     | 376                            | 93                                    | 442                                  |
| Franklin   | 1,291                      | 123                            | 44                                    | 1,016                                |
| Gulf       | 4,918                      | 583                            | 152                                   | 2,470                                |
| Okaloosa   | 8,515                      | 102                            | 84                                    | 382                                  |
| Santa Rosa | 6,999                      | 193                            | 108                                   | 338                                  |
| Walton     | 3,952                      | 1,257                          | 165                                   | 1,682                                |
| Region     | 51,863                     | 2,829                          | 800                                   | 7,711                                |
| Florida    | N.D.                       | N.D.                           | N.D.                                  | N.D.                                 |

Continued

Table R/T 36 . Concluded .

| County     | Private hunting preserve | Resident county hunting | Resident statewide hunting | Non-resident statewide hunting | Non-resident 10-day hunting |
|------------|--------------------------|-------------------------|----------------------------|--------------------------------|-----------------------------|
| Bay        | 1                        | 241                     | 5,532                      | 15                             | 76                          |
| Escambia   | 0                        | 3,819                   | 6,751                      | 55                             | 61                          |
| Franklin   | 0                        | 274                     | 404                        | 4                              | 65                          |
| Gulf       | 0                        | 320                     | 958                        | 5                              | 39                          |
| Okaloosa   | 1                        | 1,851                   | 4,363                      | 17                             | 50                          |
| Santa Rosa | 5                        | 1,935                   | 2,036                      | 13                             | 16                          |
| Walton     | 0                        | 1,270                   | 1,010                      | 35                             | 30                          |
| Region     | 7                        | 9,710                   | 21,054                     | 144                            | 337                         |
| Florida    | N.D.                     | N.D.                    | N.D.                       | N.D.                           | N.D.                        |

Table R/T 37. Hunting and fishing licenses issued in FY 1979-80 (Florida Game and Fresh Water Fish Commission 1980a, 1980b)

| County     | Resident<br>statewide fishing | Non-resident<br>statewide fishing | Resident<br>12-month statewide fishing | Non-resident<br>14-day statewide fishing |
|------------|-------------------------------|-----------------------------------|--|--|
| Bay        | 8,912                         | 232                               | 990                                    | 82                                       |
| Escambia   | 5,742                         | 457                               | 4,792                                  | 77                                       |
| Franklin   | 484                           | 85                                | 180                                    | 8  |
| Gulf       | 2,398                         | 791                               | 701                                    | 65                                       |
| Okaloosa   | 4,298                         | 140                               | 3,212                                  | 43                                       |
| Santa Rosa | 2,539                         | 122                               | 1,699                                  | 37                                       |
| Walton     | 2,113                         | 1,506                             | 937                                    | 103                                      |
| Region     | 26,486                        | 3,333                             | 12,511                                 | 415                                      |
| Florida    | N.D.                          | N.D.                              | N.D.                                   | N.D.                                     |

Continued



Table R/T 37 Continued.

| County     | Non-resident<br>5-day statewide fishing | Resident<br>hunting and fishing | Private<br>hunting preserve | Resident<br>county hunting |
|------------|---|---------------------------------|-----------------------------|----------------------------|
| Bay        | 1,030                                   | 2,066                           | 0                           | 358                        |
| Escambia   | 398                                     | 1,811                           | 0                           | 2,981                      |
| Franklin   | 633                                     | 252                             | 0                           | 276                        |
| Gulf       | 1,325                                   | 476                             | 0                           | 178                        |
| Okaloosa   | 388                                     | 1,844                           | 1                           | 1,578                      |
| Santa Rosa | 187                                     | 997                             | 7                           | 1,533                      |
| Walton     | 1,492                                   | 640                             | 0                           | 1,045                      |
| Region     | 5,453                                   | 8,086                           | 8                           | 7,949                      |
| Florida    | N.D.                                    | N.D.                            | N.D.                        | N.D.                       |

Continued

Table R/T 37. Concluded.

| County     | Resident<br>statewide hunting | Non-resident<br>statewide hunting | Non-resident<br>10-day hunting | Resident<br>county trapping |
|------------|-------------------------------|-----------------------------------|--------------------------------|-----------------------------|
| Bay        | 4,321                         | 5                                 | 529                            | 19                          |
| Escambia   | 5,926                         | 45                                | 340                            | 25                          |
| Franklin   | 476                           | 3                                 | 92                             | 13                          |
| Gulf       | 852                           | 1                                 | 61                             | 43                          |
| Okaloosa   | 3,991                         | 7                                 | 258                            | 26                          |
| Santa Rosa | 2,348                         | 10                                | 118                            | 29                          |
| Walton     | 1,054                         | 11                                | 112                            | 43                          |
| Region     | 18,968                        | 82                                | 1,510                          | 198                         |
| Florida    | N.D.                          | N.D.                              | N.D.                           | N.D.                        |

**MINERAL AND OIL PRODUCTION (MP)**

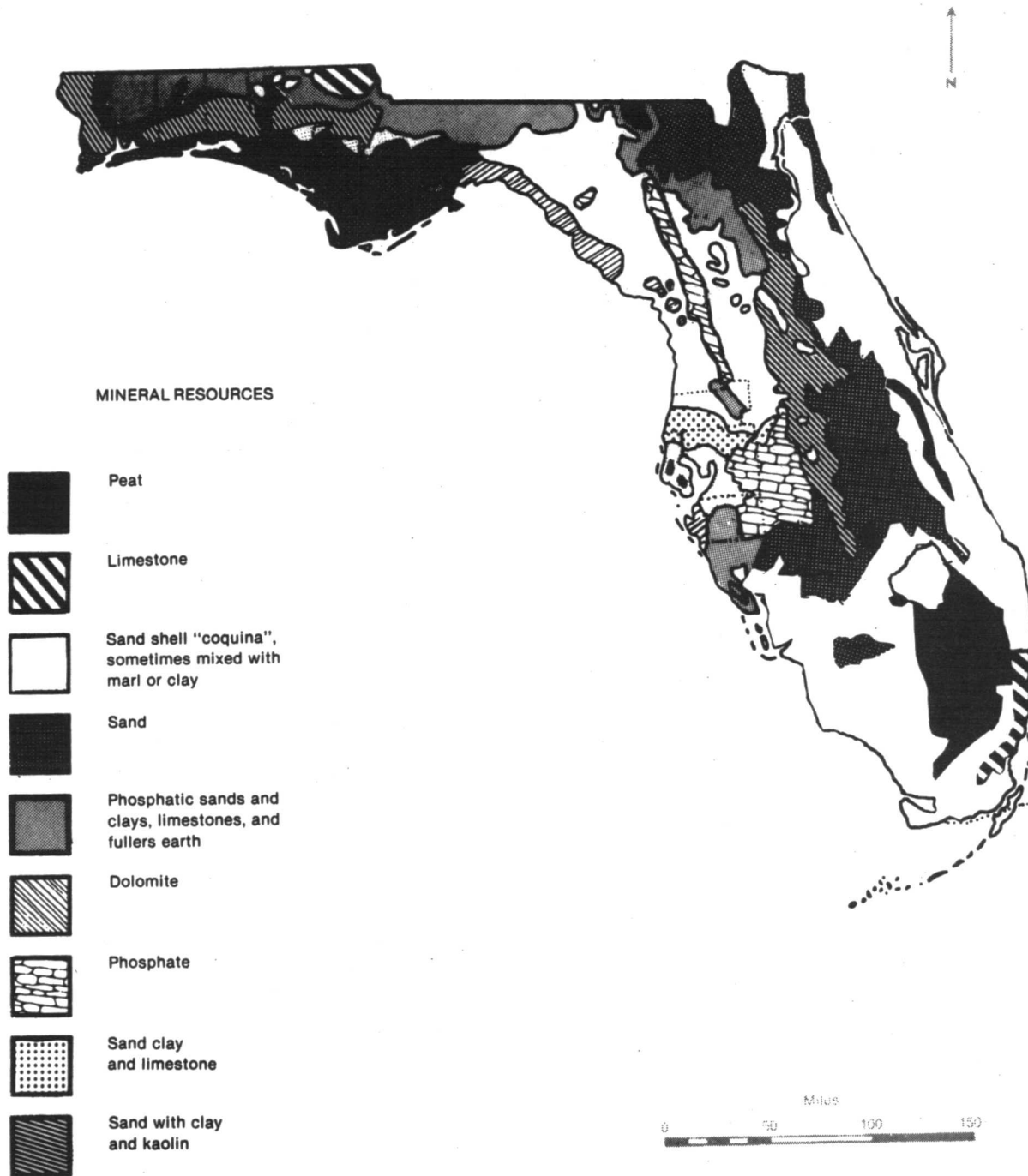


Figure 14. Florida mineral resources (Wood and Fernald 1974).

Table MP 1. Value (\$) of all minerals<sup>a</sup> produced, in order of value, for 1955, 1960, 1965, 1970, 1975 and 1979 (U.S. Department of the Interior, Bureau of Mines 1958, 1961, 1967, 1972, 1978b, 1981).

| County     | Year | Mineral                      | (\$)                |
|------------|------|------------------------------|---------------------|
| Bay        | 1955 | Sand                         | 26,139 <sup>b</sup> |
|            | 1960 | Sand and gravel              | D                   |
|            | 1965 | Sand and gravel              | D                   |
|            | 1970 | Sand and gravel              | D                   |
|            | 1975 | Sand and gravel              | 474,000             |
|            | 1979 | Sand and gravel              | 663,000             |
| Escambia   | 1955 | Sand, gravel and clay        | N.D.                |
|            | 1960 | Sand and gravel              | 356,812             |
|            | 1965 | Sand, gravel and clay        | 450,000             |
|            | 1970 | Sand, gravel and clay        | D                   |
|            | 1975 | Sand, gravel and clay        | 680,000             |
| Franklin   | 1955 | NRP                          | N.A.                |
|            | 1960 | NRP                          | N.A.                |
|            | 1965 | Sand and gravel              | D                   |
|            | 1970 | Sand and gravel              | D                   |
|            | 1975 | NRP                          | N.A.                |
| Gulf       | 1979 | NRP                          | N.A.                |
|            | 1955 | NRP                          | N.A.                |
|            | 1960 | Magnesium compounds, lime    | D                   |
|            | 1965 | Magnesium compounds, lime    | D                   |
|            | 1970 | Magnesium compounds, lime    | D                   |
| Okaloosa   | 1975 | Magnesium compounds, lime    | D                   |
|            | 1979 | Magnesium compounds, lime    | D                   |
|            | 1955 | NRP                          | N.A.                |
|            | 1960 | NRP                          | N.A.                |
|            | 1965 | NRP                          | N.A.                |
| Santa Rosa | 1970 | Sand and gravel              | D                   |
|            | 1975 | Sand and gravel              | D                   |
|            | 1979 | Sand and gravel              | 33,000              |
|            | 1955 | NRP                          | N.A.                |
|            | 1960 | NRP                          | N.A.                |
| Walton     | 1965 | NRP                          | N.A.                |
|            | 1970 | Petroleum                    | D                   |
|            | 1975 | Natural gas, sand and gravel | D                   |
|            | 1979 | Sand and gravel              | D                   |
|            | 1955 | NRP                          | N.A.                |
| Walton     | 1960 | Oystershell                  | D                   |
|            | 1965 | Oystershell, sand and gravel | D                   |
|            | 1970 | Oystershell, sand and gravel | D                   |
|            | 1975 | Sand and gravel              | 269                 |
|            | 1979 | Sand and gravel              | D                   |

Continued

Table MP 1. Concluded.

| County  | Year | Mineral      | (\$)          |
|---------|------|--------------|---------------|
| Florida | 1955 | All minerals | 108,957,000   |
|         | 1960 | All minerals | 176,920,000   |
|         | 1965 | All minerals | 249,320,000   |
|         | 1970 | All minerals | 300,042,000   |
|         | 1975 | All minerals | 1,775,500,000 |
|         | 1979 | All minerals | 1,098,772,000 |

<sup>a</sup> Excludes peat, petroleum and natural gas.

<sup>b</sup> Figures withheld to avoid disclosure of individual establishments.

<sup>c</sup> No production report.

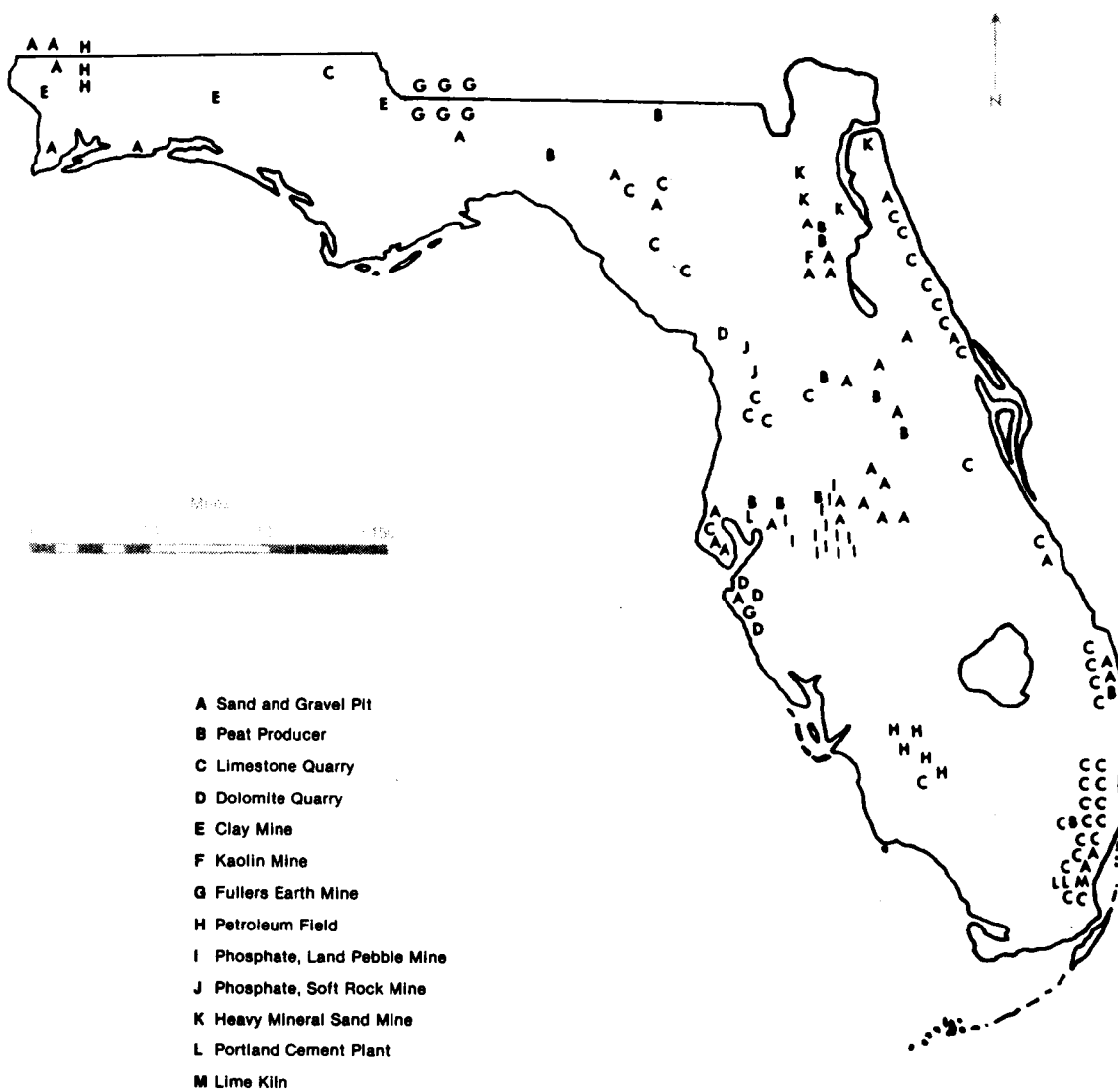


Figure 15. Florida mineral industries (Wood and Fernald 1974).

Table MP 2. Non-fuel mineral production and value (\$) in Florida for 1955, 1960, 1965, 1970, 1975 and 1979 (U.S. Department of the Interior, Bureau of Mines 1958, 1961, 1967, 1972, 1978b, 1981).

| Mineral                        | Year | Quantity produced <sup>a</sup> | (\$)                    |
|--------------------------------|------|--------------------------------|-------------------------|
| Sand and gravel                | 1955 | 5,065,503                      | 4,349,148               |
|                                | 1960 | 6,757,000                      | 5,559,000               |
|                                | 1965 | 7,298,000                      | 6,377,000               |
|                                | 1970 | 12,482,000                     | 12,254,000              |
|                                | 1975 | 13,237,000                     | 20,199,000              |
|                                | 1979 | 21,708,000 <sup>b</sup>        | 39,520,000              |
| Phosphate rock                 | 1955 | 8,747,282 <sup>b</sup>         | 53,640,301              |
|                                | 1960 | 12,321,000                     | 82,530,000              |
|                                | 1965 | 19,253,000                     | 141,258,000             |
|                                | 1970 | N.D.                           | N.D.                    |
|                                | 1975 | N.D.                           | N.D.                    |
|                                | 1979 | N.D.                           | N.D.                    |
| Stone<br>(including limestone) | 1955 | 17,027,967                     | 22,966,008              |
|                                | 1960 | 27,629,000                     | 37,419,000              |
|                                | 1965 | 35,730,000                     | 41,148,000              |
|                                | 1970 | 43,089,000 <sup>c</sup>        | 61,302,000              |
|                                | 1975 | 39,071,000 <sup>d</sup>        | 73,372,000              |
|                                | 1979 | <sup>d</sup><br><sup>e</sup>   | D                       |
| Clays                          | 1955 | 412,766                        | 4,815,855               |
|                                | 1960 | 252,000                        | 6,357,000               |
|                                | 1965 | 651,000                        | 9,752,000               |
|                                | 1970 | 872,000                        | 12,661,000              |
|                                | 1975 | 712,000                        | 17,063,000 <sup>f</sup> |
|                                | 1979 | 681,000                        | 31,308,000 <sup>f</sup> |
| Peat                           | 1955 | 61,098                         | 231,829                 |
|                                | 1960 | 39,275                         | 162,000                 |
|                                | 1965 | 19,253                         | 109,000                 |
|                                | 1970 | 46,000                         | 304,000                 |
|                                | 1975 | 82,000 <sup>g</sup>            | 1,037,000               |
|                                | 1979 | 153,000                        | 2,190,000               |

<sup>a</sup> Short tons except where otherwise specified.

<sup>b</sup> Long tons.

<sup>c</sup> Excludes dimension limestone.

<sup>d</sup> Excludes dimension stone and shell.

<sup>e</sup> Figures withheld to avoid disclosure of individual establishments.

<sup>f</sup> Excludes value of kaolin.

<sup>g</sup> Source document gave two figures: page 191 (82,000) page 204 (100,895). The value from both pages is shown above.



Table MP 3. Marketable production of phosphate rock (\$) in Florida for 1955, 1960 and 1965<sup>a</sup> (U.S. Department of the Interior, Bureau of Mines 1958, 1961, 1967, 1972, 1978b, 1981).

| Year | Hard rock |         | Soft rock |         |
|------|-----------|---------|-----------|---------|
|      | Long tons | (\$)    | Long tons | (\$)    |
| 1955 | 91,200    | 733,800 | 69,788    | 452,301 |
| 1960 | 77,000    | 670,000 | 47,000    | 384,000 |
| 1965 | 69,900    | 693,000 | 29,216    | 226,844 |

| Year | Land pebble |             | Total      |             |
|------|-------------|-------------|------------|-------------|
|      | Long tons   | (\$)        | Long tons  | (\$)        |
| 1955 | 8,586,294   | 52,454,200  | 8,747,282  | 53,640,301  |
| 1960 | 12,197,000  | 81,476,000  | 12,321,000 | 82,530,000  |
| 1965 | 19,153,835  | 140,337,900 | 19,252,931 | 141,257,744 |

<sup>a</sup> No data after 1965.

Table MP 4. Phosphate reserves and resources for the world, the United States and central Florida (million metric tons) (U.S. Department of the Interior, Bureau of Mines 1978b).

| Location                         | Measured reserves | Identified sub-economic resources | Total resources |
|----------------------------------|-------------------|-----------------------------------|-----------------|
| World <sup>a</sup>               | 15,207            | 49,188                            | 74,395          |
| United States <sup>a</sup>       | 2,902             | 1,506                             | 4,408           |
| Central Florida <sup>a</sup>     | 907               | 635                               | 1,542           |
| Polk County <sup>b</sup>         | 403               | 95                                | 498             |
| Hillsborough County <sup>b</sup> | 181               | 14                                | 195             |
| Hardee County <sup>b</sup>       | 176               | 299                               | 475             |
| Manatee County <sup>b</sup>      | 164               | 150                               | 314             |
| DeSoto County <sup>b</sup>       | 16                | 64                                | 80              |

<sup>a</sup> 1976 figures.

<sup>b</sup> 1973 figures.

Table MP 5. Active sand producers in Northwest Florida (Florida Department of Environmental Regulation, Bureau of Water Management 1980a).

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County and producer

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Bay County

Calloway Pit  
Calloway Sand Co.

Hutchinson Pit  
Florida Asphalt Paving Co.

Register Pit  
Florida Asphalt Paving Co.

Gulf Asphalt Pit  
Gulf Asphalt Corp.

Lynn Haven Mine  
Pitts Sand Co.

Escambia County

Campbell Sand and Gravel

Pensacola Mine  
Clark Sand Co. (2 mines)

Escambia Pit  
Ed Chadbourne, Inc.

Okaloosa County

Dorcas Pit  
Morrell Sand Co.

Walton County

Adams Mine  
Adams Sand Co.

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Table MP 6. Florida's Non-fuel mineral supply (\$) in 1978 (U.S. Department of the Interior, Bureau of Mines 1978c)

| Commodity                   | % of U.S. output | Rank in nation | Reserves |
|-----------------------------|------------------|----------------|----------|
| Fuller's earth              | 37               | 1              | moderate |
| Phosphate rock <sup>a</sup> | 86               | 1              | moderate |
| Rare-earth concentrates     | D <sup>b</sup>   | 2              | small    |
| Staurolite                  | 100              | 1              | small    |
| Stone, crushed              | 5                | 4              | large    |
| Titanium minerals           | D                | 1              | moderate |
| Zircon                      | 100              | 1              | small    |

<sup>a</sup> Includes North Carolina.

<sup>b</sup> Data withheld to avoid disclosure of individual establishments.

Table MP 7. Crude petroleum and natural gas production and value in dollars (\$) for Florida for 1955, 1960, 1965, 1970, 1975 and 1979 (U.S. Department of the Interior, Bureau of Mines 1958, 1961, 1967, 1972, 1978b, 1981).

| Year | Crude petroleum       |                | Natural gas           |            |
|------|-----------------------|----------------|-----------------------|------------|
|      | Quantity <sup>a</sup> | (\$)           | Quantity <sup>b</sup> | (\$)       |
| 1955 | 495                   | D <sup>c</sup> | 36                    | 4,000      |
| 1960 | 368                   | D              | 30                    | 5,000      |
| 1965 | 1,464                 | D              | 107                   | 14,000     |
| 1970 | 2,999                 | D              | N.D.                  | N.D.       |
| 1975 | 41,877                | 490,258,000    | 44,383                | 43,185,000 |
| 1979 | N.D.                  | N.D.           | N.D.                  | N.D.       |

<sup>a</sup> Thousand barrels.

<sup>b</sup> Million ft<sup>3</sup>.

<sup>c</sup> Figures withheld to avoid disclosure of individual establishments.

Table MP 8. Natural gas production (1000 ft<sup>3</sup>) by field for 1970<sup>a</sup>, 1975 and 1979 (Florida Department of Administration, State Energy Office 1978; Curry ca. 1980).

| Field and county              | 1970    | Cumulative | 1975       | Cumulative  |
|-------------------------------|---------|------------|------------|-------------|
| Blackjack Creek <sup>b</sup>  | 0       | 0          | 4,113,862  | 4,121,865   |
| Santa Rosa                    |         |            |            |             |
| Jay <sup>c</sup>              | 9,828   | 9,828      | 39,343,578 | 87,003,857  |
| Santa Rosa                    |         |            |            |             |
| Escambia                      |         |            |            |             |
| Mt. Carmel <sup>d</sup>       | 0       | 0          | 550,238    | 571,439     |
| Santa Rosa                    |         |            |            |             |
| Sweetwater Creek <sup>e</sup> | 0       | 0          | 0          | 0           |
| Region                        | 9,828   | 9,828      | 44,007,678 | 91,697,161  |
| Florida                       | 435,869 | 2,105,511  | 44,387,541 | 135,515,010 |

| Field and county | 1979       | Cumulative  |
|------------------|------------|-------------|
| Blackjack Creek  | 4,999,540  | 24,333,621  |
| Santa Rosa       |            |             |
| Jay              | 48,169,488 | 304,659,074 |
| Santa Rosa       |            |             |
| Escambia         |            |             |
| Mt. Carmel       | 611,180    | 3,375,619   |
| Santa Rosa       |            |             |
| Sweetwater Creek | 5,384      | 11,920      |
| Region           | 53,785,592 | 332,380,234 |
| Florida          | 54,162,641 | 337,881,773 |

<sup>a</sup> Production in these fields did not begin prior to 1970.

<sup>b</sup> Production began in 1972.

<sup>c</sup> Production began in 1970.

<sup>d</sup> Production began in 1971.

<sup>e</sup> Production began in 1977.

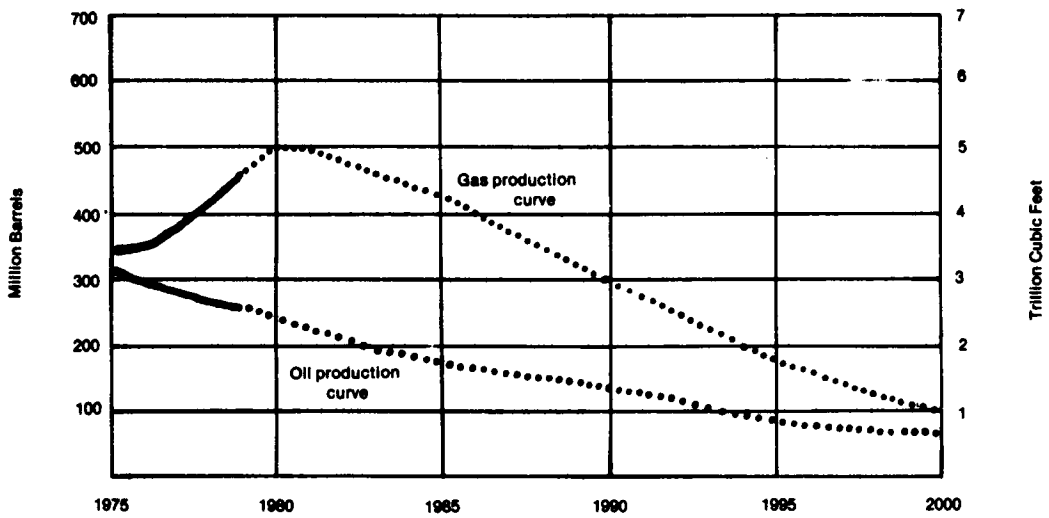


Figure 16. Oil and gas production curves for the Gulf of Mexico to the year 2000 (Rogers et al. 1979).



Figure 17. Producing and plugged oil and gas fields in Florida (Curry and Tootle 1980).

Table MP 9. Crude oil production (bbl) by field for 1970<sup>a</sup>, 1975 and 1979  
 (Florida Department of Administration, State Energy Office 1978; Curry ca.  
 1980).

| Field and county              | 1970      | Cumulative | 1975       | Cumulative  |
|-------------------------------|-----------|------------|------------|-------------|
| Blackjack Creek <sup>b</sup>  | 0         | 0          | 4,596,936  | 4,632,590   |
| Santa Rosa                    |           |            |            |             |
| Jay <sup>c</sup>              | 6,819     | 6,819      | 31,693,227 | 103,509,989 |
| Santa Rosa                    |           |            |            |             |
| Escambia                      |           |            |            |             |
| Mt. Carmel <sup>d</sup>       | 0         | 0          | 565,160    | 1,146,882   |
| Santa Rosa                    |           |            |            |             |
| Sweetwater Creek <sup>e</sup> | 0         | 0          | 0          | 0           |
| Region                        | 6,819     | 6,819      | 36,855,323 | 109,289,461 |
| Florida                       | 2,992,335 | 19,400,672 | 41,680,509 | 151,972,650 |

| Field and county | 1979       | Cumulative  |
|------------------|------------|-------------|
| Blackjack Creek  | 5,761,034  | 27,378,548  |
| Santa Rosa       |            |             |
| Jay              | 38,738,779 | 247,123,062 |
| Santa Rosa       |            |             |
| Escambia         |            |             |
| Mt. Carmel       | 609,261    | 3,422,879   |
| Santa Rosa       |            |             |
| Sweetwater Creek | 3,283      | 5,329       |
| Region           | 45,112,357 | 277,929,818 |
| Florida          | 49,811,599 | 340,423,804 |

<sup>a</sup> Production in these fields did not begin prior to 1970.

<sup>b</sup> Production began in 1972.

<sup>c</sup> Production began in 1970.

<sup>d</sup> Production began in 1971.

<sup>e</sup> Production began in 1977.



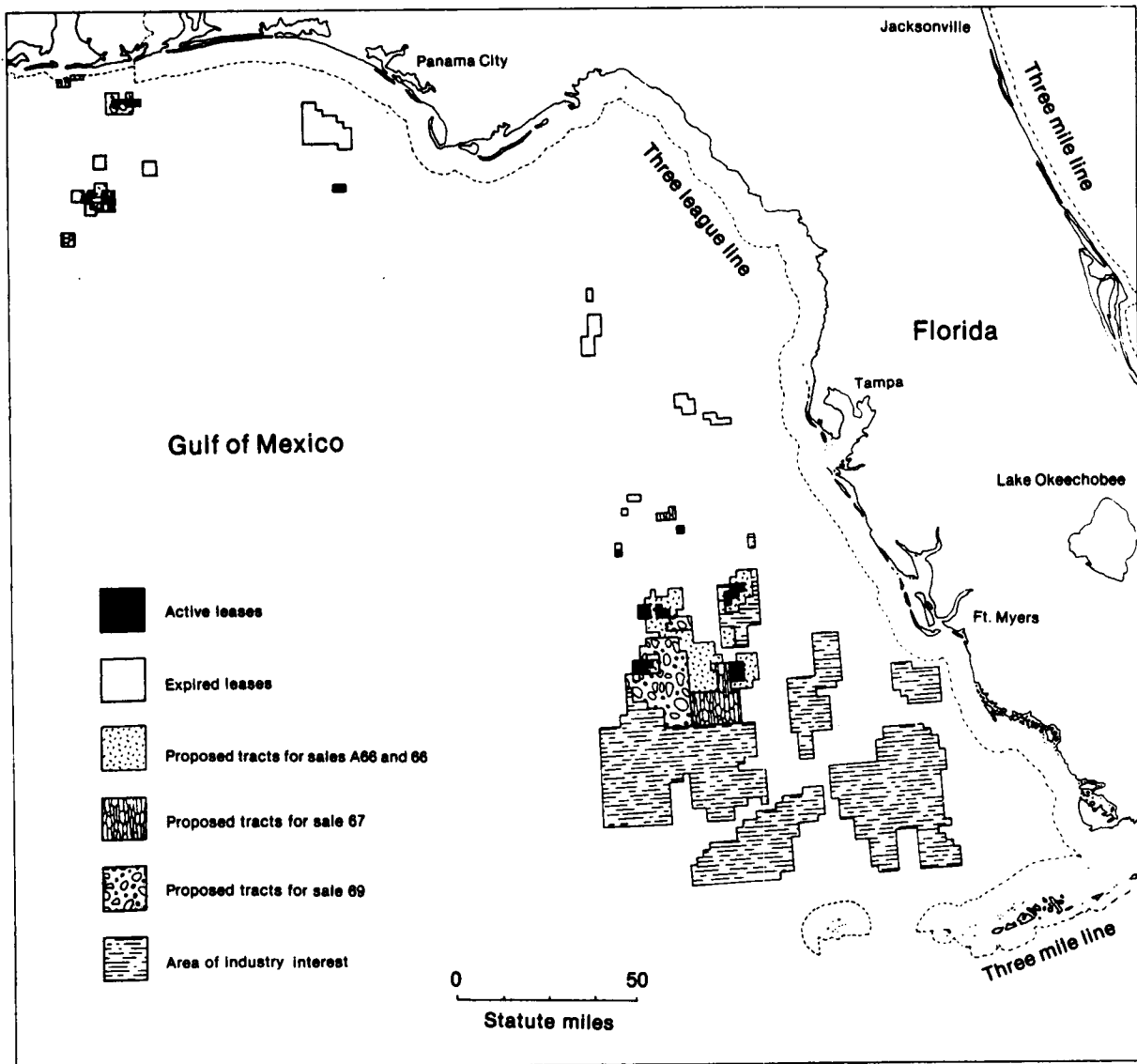


Figure 18. Status of OCS lease areas off the Florida Gulf Coast (U.S. Department of the Interior, Bureau of Land Management 1980; Southwest Florida Regional Planning Council 1981).

Table MP 10. Oil and gas drilling permits since 1973 (Florida Department of Natural Resources, Division of Resource Management 1980).

| County   | Permit number | API <sup>a</sup> number approved | Date approved                             | Operator  |
|----------|---------------|----------------------------------|---|---|
| Bay      | 1006          | 09-005-20003                     | 03-04-80                                  | Houston Oil and Mineral Corp.<br>Southwest Forest Industries<br>Unit 13-3 Well #1 |
|          | 1010          | 09-055-20004                     | 04-15-80                                  | Houston Oil and Mineral Corp.<br>Southwest Forest Industries<br>Unit 13-3 Well #1 |
| Escambia | 694           | 09-033-20024                     | 09-04-73                                  | Petrol Co. #1<br>Stacey Unit 14-3   |
|          | 707           | 09-033-20025                     | 11-06-73                                  | LL&E McDavid Lands 3-2 #1   |
|          | 573A          | 09-033-20016-01                  | 08-29-72                                  | Exxon McDavid Lands 35-2A<br>(Sidetracked hole)                                   |
|          | 573B          | 09-033-20016-02                  | 02-17-75                                  | Exxon McDavid Lands 35-2A<br>(Sidetracked hole)                                   |
|          | 883           | 09-033-20028                     | 03-22-77                                  | Exxon McDavid Lands #7-5  |
|          | 884           | 09-033-20029                     | 03-22-77                                  | Exxon McDavid Lands #31-2   |
|          | 918           | 09-033-20030                     | 10-18-77                                  | Exxon McDavid Lands #1-2  |
|          | 943           | 09-033-20031                     | 05-02-78                                  | Exxon Scott Paper Co. #1-2  |
|          | 945           | 09-033-20032                     | 05-16-78                                  | Exxon Epstein McMillan #35-4  |
|          | 946           | 09-033-20033                     | 05-16-78                                  | Exxon W.H. Crapps #36-3   |
|          | 948           | 09-033-20034                     | 07-05-78                                  | Exxon McDavid Lands #30-2B  |
|          | 708           | 09-033-20026                     | 11-06-73                                  | L.L.E. James Nicholson #10-1<br>Unit #1   |
|          | 790           | 09-033-20035                     | 05-20-75                                  | L.L.E. Vulcan Materials et al. Unit<br>22-2, Well #1                              |
| 977      | 09-033-20036  | 04-17-79                         | Exxon McDavid Lands et al. Well<br># 31-3 |   |

Continued

Table MP 10. Continued.

| County         | Permit number | API number approved | Date approved | Operator   |
|----------------|---------------|---------------------|---------------|--|
|                | 1027          | 09-033-20037        | 10-21-80      | Chevron, U.S.A. La Floresta Unit 2-1, Well #1                  |
| Okaloosa       | 731           | 09-091-20003        | 03-19-74      | Cabot Corp. U.S.A. State Forest 1-9                            |
|                | 807           | 09-091-20004        | 10-21-75      | Cleary Petroleum, Coleman Kelly Trust #1                       |
|                | 970           | 09-091-20005        | 09-18-79      | Peninsula Resources Corp. Mattie Kelly Sims et al. Trustees #1 |
| 223 Santa Rosa | 729           | 09-113-20135        | 03-19-74      | Exxon D.M. Kirkland et al. #11                                 |
|                | 728           | 09-113-20136        | 03-19-74      | Exxon W.W. Foskett # 25-N                                      |
|                | 739           | 09-113-20137        | 05-21-74      | Amerada Hess MS-FL, J.E. Golden # 4-1 # 1                      |
|                | 750           | 09-113-20138        | 09-04-74      | Callon Hendricks-Helms # 36-3 # 1                              |
|                | 763           | 09-113-20139        | 11-26-74      | Belco Petroleum Corp. Obie E. Willis #1                        |
|                | 771           | 09-113-20140        | 02-04-75      | Watson Oil Corp. Gordon Wells et al. Well #1                   |
|                | 773           | 09-113-20141        | 05-20-75      | Amax Petroleum Corp. #1, E.H. Estes Unit 26-1                  |
|                | 791           | 09-113-20142        | 05-20-75      | Exxon Jay, Lec Unit Salt Water Disposal System 5 Well #1       |
|                | 796           | 09-113-20143        | 09-09-75      | Texas Gas Exploration Co. R.J. Pitts 6-4 #1                    |
|                | 805           | 09-113-20144        | 09-23-75      | Pruet and Hughes Co. #1 Floyd Unit 6-2                         |

Continued

Table MP 10. Continued.

| County     | Permit number | API number approved | Date approved                  | Operator   |
|------------|---------------|---------------------|--------------------------------|--|
| Santa Rosa | 808           | 09-113-20145        | 12-02-75                       | Exxon Jay, LEC Unit, Saltwater Disposal System #1, Well #2 |
|            | 811           | 09-113-20146        | 12-16-75                       | Marion Corp., W.H. Hendrick et al., Unit 3-1, Well #1      |
|            | 815           | 09-113-20147        | 03-23-76                       | Exxon, St. Regis Paper Co. 15-W (water injection)          |
|            | 855           | 09-113-20148        | 09-22-76                       | Tesoro, L.L. & E, Dalco, St. Regis Paper Co. #1, 9-3       |
|            | 860           | 09-113-20149        | 11-04-76                       | Tesoro, L.L. & E. & Dalco #1, #16-2                        |
|            | 861           | 09-113-20150        | 11-04-76                       | Tesoro, L.L. & E. & Dalco #1, #8-4                         |
|            | 863           | 09-113-20151        | 11-16-76                       | Dallas Exploration, McRae et al., #36-2                    |
|            | 881           | 09-113-20152        | 01-06-77                       | Houston Oil, W.M. Stokes #15-2                             |
|            | 882           | 09-113-20154        | 03-22-77                       | Exxon Douglas Polk #41-1                                   |
|            | 886           | 09-113-20153        | 04-07-77                       | Exxon St. Regis Paper #13-W                                |
|            | 889           | 09-113-20155        | 05-17-77                       | Houston H. Hanna #9-3                                      |
|            | 890           | 09-113-20156        | 05-17-77                       | Houston #1 U.S.A. State Forest #15-3                       |
|            | 891           | 09-113-20157        | 06-07-77                       | Houston U.S.A. State Forest #14-3                          |
|            | 910           | 09-113-20158        | 07-19-77                       | Exxon C. Higdon #19-5                                      |
|            | 911           | 09-113-20159        | 08-16-77                       | Pennzoil U.S.A. State Forest #5-2                          |
|            | 912           | 09-113-20160        | 09-06-77                       | Pennzoil Cooley Unit #25-1                                 |
|            | 991           | 09-113-20184        | 11-06-79                       | Exxon McDavid Lands et al., Well #38-2                     |
|            | 992           | 09-113-20185        | 11-06-79                       | Exxon St. Regis Paper Co. Well #14-3                       |
|            | 995           | 09-113-20186        | 01-08-80                       | Exxon W. R. Polk, Well #18-4                               |
|            | 1002          | 09-113-20187        | 02-05-80                       | Exxon R.D. Scott, Well #41-5                               |
| 1004       | 09-113-20188  | 03-04-80            | Exxon Martha Murphy Well #10-6 |  |

Continued

Table MP 10. Concluded.

| County        | Permit number | API number approved | Date approved | Operator   |
|---------------|---------------|---------------------|---------------|--|
| Santa Rosa    | 1005          | 09-113-20189        | 03-04-80      | Exxon A.E. Kelly, Well #7-7                          |
|               | 1013          | 09-113-20190        | 06-03-80      | Exxon D.R. Simmons #19-6                             |
|               | 1021          | 09-113-20191        | 09-26-80      | Exxon St. Regis Paper Co. Well #9-5                  |
| Walton County | 793           | 09-131-20006        | 07-15-75      | Texas Gas Exploration Corp. D.E. Wilkerson Well #1   |
|               | 793A          | 09-131-20007        |               | Texas Gas Exploration Corp. D.E. Wilkerson Well #1-A |
|               | 874           | 09-131-20008        | 12-07-76      | Milton J. Bernos, Olen L. Miller #1                  |
|               | 932           | 09-131-20009        | 01-17-78      | Marion Corp. Sealy Heirs #1                          |

<sup>a</sup> American Petroleum Institute.

Table MP 11. OCS oil and gas lease sales in dollars (\$) in Florida for selected dates (Exxon Company U.S.A. 1980).

| Date of sale | Sale number | Offered          |         | Leased           |         | Total bonus (\$) |
|--------------|-------------|------------------|---------|------------------|---------|------------------|
|              |             | Number of tracts | Acres   | Number of tracts | Acres   |                  |
| 02-26-59     | 5           | 80               | 458,000 | 23               | 132,480 | 1,711,872        |
| 12-20-73     | 32          | 85               | 489,600 | 62               | 357,120 | 1,100,399,131    |
| 02-08-76     | 41          | 60               | 350,292 | 4                | 23,040  | 4,040,000        |
| 10-31-78     | 65          | 71               | 408,334 | 28               | 161,280 | 43,823,730       |

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| Date     | Total first year rental (\$) | Average bid per acre (\$) | Highest bid per acre (\$) |
|----------|------------------------------|---------------------------|---------------------------|
| 05-26-59 | 397,440                      | 13.00                     | 16.00                     |
| 12-20-73 | 1,071,360                    | 3,081.00                  | 36,805.00                 |
| 02-08-76 | 69,120                       | 175.00                    | 280.00                    |
| 10-31-78 | 483,840                      | 272.00                    | 1,422.00                  |

Table MP 12. Crude oil and natural gas reserves and production in Florida for 1955, 1960, 1965, 1970, 1975, 1977 and 1979 (Florida Department of Administration, State Energy Office 1978).

| Year | Oil                                  |                             | Gas                                  |                             |
|------|--------------------------------------|-----------------------------|--------------------------------------|-----------------------------|
|      | Estimated recoverable reserves (bbl) | Cumulative production (bbl) | Estimated recoverable reserves (Mcf) | Cumulative production (Mcf) |
| 1955 | 14,525,219                           | 4,350,228                   | 1,452,656                            | 443,256                     |
| 1960 | 12,384,111                           | 6,491,336                   | 1,238,556                            | 647,356                     |
| 1965 | 21,347,433                           | 9,828,014                   | 1,902,936                            | 966,976                     |
| 1970 | 382,468,433                          | 19,400,672                  | 405,407,461                          | 2,105,511                   |
| 1975 | 302,461,451                          | 151,972,650                 | 312,796,384                          | 135,515,010                 |
| 1977 | 211,687,025                          | 243,075,980                 | 216,208,122                          | 232,124,782                 |
| 1979 | N.D.                                 | 340,423,804                 | N.D.                                 | 337,881,773                 |

Table MP 13. Estimated crude oil and natural gas reserves in 1972-77 (Florida Department of Administration, State Energy Office 1978).

| Field and county               | Year discovered | Recovery (%) | Crude oil reserves      |                            |
|--------------------------------|-----------------|--------------|-------------------------|----------------------------|
|                                |                 |              | Original in place (bbl) | Original recoverable (bbl) |
| Blackjack Creek<br>Santa Rosa  | 1972            | 40           | 100,500,000             | 40,200,000                 |
| Jay<br>Santa Rosa<br>Escambia  | 1970            | 42           | 763,129,638             | 320,514,448                |
| Mt. Carmel<br>Santa Rosa       | 1971            | 20           | 17,500,000              | 3,500,000                  |
| Sweetwater Creek<br>Santa Rosa | 1977            | 10           | 624,116                 | 62,412                     |
| Region                         |                 | N.D.         | 881,753,754             | 364,276,860                |
| Florida                        |                 | 41           | 1,120,525,179           | 454,763,005                |

| Field and county               | Natural gas reserves    |                            |
|--------------------------------|-------------------------|----------------------------|
|                                | Original in place (Mcf) | Original recoverable (Mcf) |
| Blackjack Creek<br>Santa Rosa  | 91,455,000              | 36,582,000                 |
| Jay<br>Santa Rosa<br>Escambia  | 953,912,048             | 400,643,060                |
| Mt. Carmel<br>Santa Rosa       | 17,500,000              | 3,500,000                  |
| Sweetwater Creek<br>Santa Rosa | 124,823                 | 12,482                     |
| Region                         | 1,062,991,871           | 440,737,542                |
| Florida                        | 1,082,608,605           | 448,332,904                |



Table MP 14. Gulf of Mexico OCS oil and gas resource and reserve estimates in 1979 (U.S. Department of the Interior, U.S. Geological Survey ca. 1981).

| Undiscovered recoverable estimates (mean)                                   | Oil<br>(billion bbl) | Gas<br>(trillion ft <sup>3</sup> ) |
|---|----------------------|------------------------------------|
| Western Gulf of Mexico<br>(Main pass area and W.)<br>0-2,500 m water depth  | 5.2                  | 69.0                               |
| Eastern Gulf of Mexico<br>(East of main pass area)<br>0-2,500 m water depth | 1.3                  | 2.9                                |
| Reserves  | 2.8                  | 37.2                               |

Table MP 15. Dollar value of mineral production as a percent of the State total for 1965, 1975 and 1976 (U.S. Department of the Interior, Bureau of Mines 1965, 1979).

|                               | 1965        | 1975          | 1976          |
|-------------------------------|-------------|---------------|---------------|
| Florida                       | 249,320,000 | 1,095,042,000 | 1,652,232,000 |
| Northwest Florida region      | 357,000     | 1,802,000     | 537,332,000   |
| Region value as<br>% of State | .14         | .16           | .32           |

Table MP 16. Value (\$) of mineral production for 1960 and 1975 (U.S. Department of the Interior, Bureau of Mines 1960, 1965, 1970, 1975).

| County     | 1960           | 1975      |
|------------|----------------|-----------|
| Bay        | D <sup>a</sup> | 474,000   |
| Escambia   | 356,812        | 759,000   |
| Franklin   | D              | D         |
| Gulf       | D              | D         |
| Okaloosa   | D              | D         |
| Santa Rosa | D              | D         |
| Walton     | N.D.           | 269,000   |
| Region     | 356,812        | 1,502,000 |

Table MP 17. Mineral production establishments and employment by county in 1972 (U.S. Department of Commerce 1973).

| County     | Number of establishments  |                          |       | Number of employees<br>(range) |
|------------|---------------------------|--------------------------|-------|--------------------------------|
|            | Oil and Gas<br>extraction | Non-metallic<br>minerals | Total |                                |
| Bay        | 4                         | 1                        | 5     | 0-19                           |
| Escambia   | 14                        | 2                        | 16    | 0-99                           |
| Gulf       | 2                         | 0                        | 2     | 0-19                           |
| Okaloosa   | 2                         | 2                        | 4     | 0-19                           |
| Santa Rosa | 26                        | 0                        | 26    | 0-99                           |
| Walton     | 4                         | 0                        | 4     | 0-19                           |
| Region     | 50                        | 5                        | 57    | N.D.                           |
| Florida    | N.D.                      | N.D.                     | 277   | N.D.                           |

Table MP 18. Mississippi, Alabama and Florida (MAFLA) lease sales for 1959, 1973, 1976 and 1978 (U.S. Department of the Interior, U.S. Geological Survey ca. 1981).

| MAFLA           |          |                          |                         |                   |
|-----------------|----------|--------------------------|-------------------------|-------------------|
| Lease sale      | Date     | Number of tracts offered | Number of tracts leased | Percentage leased |
| 05 <sup>a</sup> | 02/26/59 | 80 <sup>b</sup>          | 23                      | 29                |
| 32              | 12/20/73 | 85 (147) <sup>c</sup>    | 62 (87)                 | 67 (59)           |
| 41              | 02/18/76 | 60 (132)                 | 4 (34)                  | 7 (26)            |
| 65              | 10/28/78 | 71 (89)                  | 28 (35)                 | 39 (39)           |
| Summary         |          | 296 (448)                | 117 (179)               | 40 (40)           |

| MAFLA      |          |                       |                   |                   |
|------------|----------|-----------------------|-------------------|-------------------|
| Lease sale | Date     | Acres offered         | Acres leased      | Percentage leased |
| 05         | 02/26/59 | 458,000 (817,297)     | 32,480 (485,396)  | 29                |
| 32         | 12/20/73 | 489,600 (687,603)     | 357,120 (161,285) | 73 (59)           |
| 41         | 02/18/76 | 350,292 (511,709)     | 23,040 (201,294)  | 7 (23)            |
| 65         | 10/28/78 | 408,334               | 161,280           | 39 (39)           |
| Summary    |          | 1,706,226 (2,474,609) | 673,920 (980,455) | 39 (40)           |

<sup>a</sup> L.S. number 5 is not considered part of MAFLA, however, all leasing activity was adjacent to Florida.

<sup>b</sup> Figures shown without parenthesis represent data for Florida only.

<sup>c</sup> Figures shown in parenthesis represent data for all MAFLA.

Table MP 19. Factors affecting the number and locations of onshore support facilities (New England River Basins Commission 1976).

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Location of oil and gas field  
 Size of oil and gas field  
 Topography of oil and gas field  
 Depth of water  
 Whether both oil and gas are found  
 Availability of coastal frontage (land)  
 Availability of additional (back-up) land  
 Proximity to existing refineries and processing plants  
 Proximity to diverse urban areas and markets  
 Public services and facilities (schools, hospitals)  
 Labor markets (areas without strong labor unions are preferred)  
 Public opinion  
 Availability of entertainment  
 Proximity to airport or landing strip

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Table MP 20. Types and quantities of materials transported offshore for one-year periods (New England River Basins Commission 1976).

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| Materials     |                         |
|---------------|-------------------------|
| Type          | Quantity                |
| Fuel          | 10,000-15,000 bbl       |
| Drilling mud  | 2,000-5,000 tons        |
| Cement        | 1,000-3,000 tons        |
| Fresh water   | 5,000,000-7,500,000 gal |
| Tubular goods | 2,000-3,000 tons        |

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Table MP 21. General requirements for locating service bases, and potential environmental and economic impacts (New England River Basins Commission 1976).

| Item                                   | Requirements/Pollutants/Economics  |
|--|--|
| <u>Site Considerations</u>             |  |
| Land: Temporary base<br>Permanent base | 2-6 ha (5-15 acres)<br>10-40 ha (25-100 acres)   |
| Berthage                               | 60-186 m (200-600 ft) water frontage<br>5-6 m (15-20 ft) depth (draft)   |
| Transportation                         | Airport, heliport nearby<br>Water, excellent vessel accessibility<br>Rail, desirable<br>Road, adequate accessibility |
| Economic                               | Cost of land<br>Proximity to related industries  |
| <u>Environmental Impacts</u>           |  |
| Air emission                           | Hydrocarbons<br>Carbon monoxide<br>Nitrogen oxides   |
| Wastewater contaminants                | Hydrocarbons<br>Heavy metals   |
| Solid wastes                           | Up to 6 tons per day during<br>drilling hazardous, oil<br>contaminated, etc.   |
| Noise                                  | Up to 85 dB on a 24 hour basis   |
| <u>Economic Impacts</u>                |  |
| Labor                                  | 50-50 jobs/platform during drilling<br>20-30 jobs/platform during production   |
| Wages                                  | \$750,000-\$1,000,000/year   |
| Capital investment                     | Temporary base-\$200,000-\$300,000<br>Permanent base-\$2 million-\$5 million   |

Table MP 22. General requirements for locating shore facilities associated with pipelines, and potential environmental and economic impacts (New England River Basins Commission 1976).

| Item  | Requirements/Pollutants/Economics  |
|---|--|
| <u>Site Considerations</u>  |  |
| Land: Pipeline easement (on shore)<br>Pipecoating yard<br>Pumping station (if required) | 15-30 m (50-100 ft)<br>20-68 ha (50-150 acres)<br>16 ha (40 acres)   |
| Waterfront  | 15-30 m (50-100 ft) for landfall<br>232 m (750 ft) for pipe coating yard, depth at least 3 m (10 ft)                         |
| Water   | 11,350-56,775 liters (3,000-15,000)  |
| <u>Environmental Impacts</u>  |  |
| Air emission  | Hydrocarbons<br>Sulfur oxides<br>Nitrogen oxides<br>Particulates<br>Carbon monoxide  |
| Wastewater contaminants   | Alkaline substances<br>Hydrocarbons<br>Particulates<br>Metal fragments   |
| Solid wastes  | Concrete<br>Contaminated debris<br>Packaging materials<br>Metal scraps   |
| Noise   | Up to 100 dB on a 24 hour basis  |
| <u>Economic Impacts</u>   |  |
| Labor   | 250-300 jobs/pipeline during construction<br>100-200 jobs at pipecoating yard during pipeline construction                   |
| Wages   | \$5 million-\$6 million/year for pipeline construction<br>\$1.5 million-\$3 million for pipecoating yard during construction |
| Capital investment  | \$8 million-\$10 million for pipecoating yard  |

Table MP 23. General requirements for locating berthing facilities, and potential environmental and economic impacts (New England River Basins Commission 1976).

| Item                         | Requirements/Pollutants/Economics               |
|------------------------------|---|
| <u>Site Considerations</u>   |   |
| Land: Terminal<br>Tank farm  | 20-30 ha (50-75 acres)<br>8-30 ha (20-75 acres) |
| Berthage                     | Approximately 304 m (1000 ft) for pier          |
| Water                        | Potable water<br>Purging                        |
| <u>Environmental Impacts</u> |   |
| Air emission                 | Hydrocarbons<br>Carbon monoxide                 |
| Wastewater contaminants      | Oil and grease<br>High BOD<br>High COD          |
| <u>Economic Impacts</u>      |   |
| Labor                        | 25-75 jobs                                      |
| Wages                        | \$500,000-\$1,000,000/year                      |
| Capital investment           | \$15 million-\$50 million                       |

Table MP 24. General requirements for onshore processing and treatment facilities, and potential environmental and economic impacts (New England River Basins Commission 1976).

| Item                         | Requirements/Pollutants/Economics  |
|------------------------------|--|
| <u>Site Considerations</u>   |  |
| Land                         | 20-30 ha (50-75 acres)   |
| Water                        | 200,000-750,000 gal/d  |
| <u>Environmental Impacts</u> |  |
| Air emission                 | Carbon monoxide<br>Hydrocarbons<br>Hydrogen sulfides<br>Nitrogen oxides<br>Particulates<br>Sulfur oxides             |
| Wastewater contaminants      | Oil and grease<br>Heavy metals<br>Phenols<br>Halogens<br>Chromium<br>Sulfuric acid<br>Phosphates<br>Chlorine<br>Zinc |
| Solid wastes                 | Scale and sludge<br>Oil absorbents<br>Spent desiccants   |
| Noise                        | Up to 100 db on a 24 hour basis  |
| <u>Economic Impacts</u>      |  |
| Labor                        | 50-60 jobs   |
| Wages                        | \$750,000-\$1,000,000/year   |
| Capital investment           | \$50 million-\$200 million   |



Table MP 25. General requirements for locating oil refineries, and potential environmental and economic impacts (New England River Basins Commission 1976).

| Item                         | Requirements/Pollutants/Economics   |
|------------------------------|---|
| <u>Site Considerations</u>   |   |
| Land                         | 200-800 ha (500-2,000 acres)  |
| Water                        | 5-10 million gal/d  |
| <u>Environmental Impacts</u> |   |
| Air emission                 | Ammonia<br>Aldehydes<br>Carbon monoxide<br>Hydrocarbons<br>Particulates<br>Sulfur oxides                          |
| Wastewater contaminants      | Acids and caustics<br>Floating and dissolved oil<br>Dissolved solids<br>Dissolved organics<br>Cyanide<br>Chromate |
| <u>Economic Impacts</u>      |   |
| Labor                        | 200-600 jobs  |
| Wages                        | \$6 million-\$10 million/year   |
| Capital investment           | \$5 million-\$250 million   |

Table MP 26. General requirements for locating platform fabrication yards, and potential environmental pollutants (New England River Basins Commission 1976).

| Item                         | Requirements/Pollutants  |
|------------------------------|--|
| <u>Site Considerations</u>   |  |
| Land                         | 10-325 ha (25-800 acres)   |
| Berthage                     | 60-120 m (200-400 ft)<br>5-15 m (15-50 ft) depth   |
| Water                        | 40,000-100,000 gal/d   |
| <u>Environmental Impacts</u> |  |
| Air emission                 | Sand and metal dust<br>Concrete and cement dust<br>Nitrogen oxide<br>Sulfur oxide<br>Hydrocarbons<br>Organic compounds |
| Wastewater contaminants      | Heavy metals<br>Chemicals<br>Particulates  |
| Noise                        | Up to 100 dB on a 24 hour basis  |

**ENVIRONMENTAL ISSUES AND REGULATIONS (EIR)**

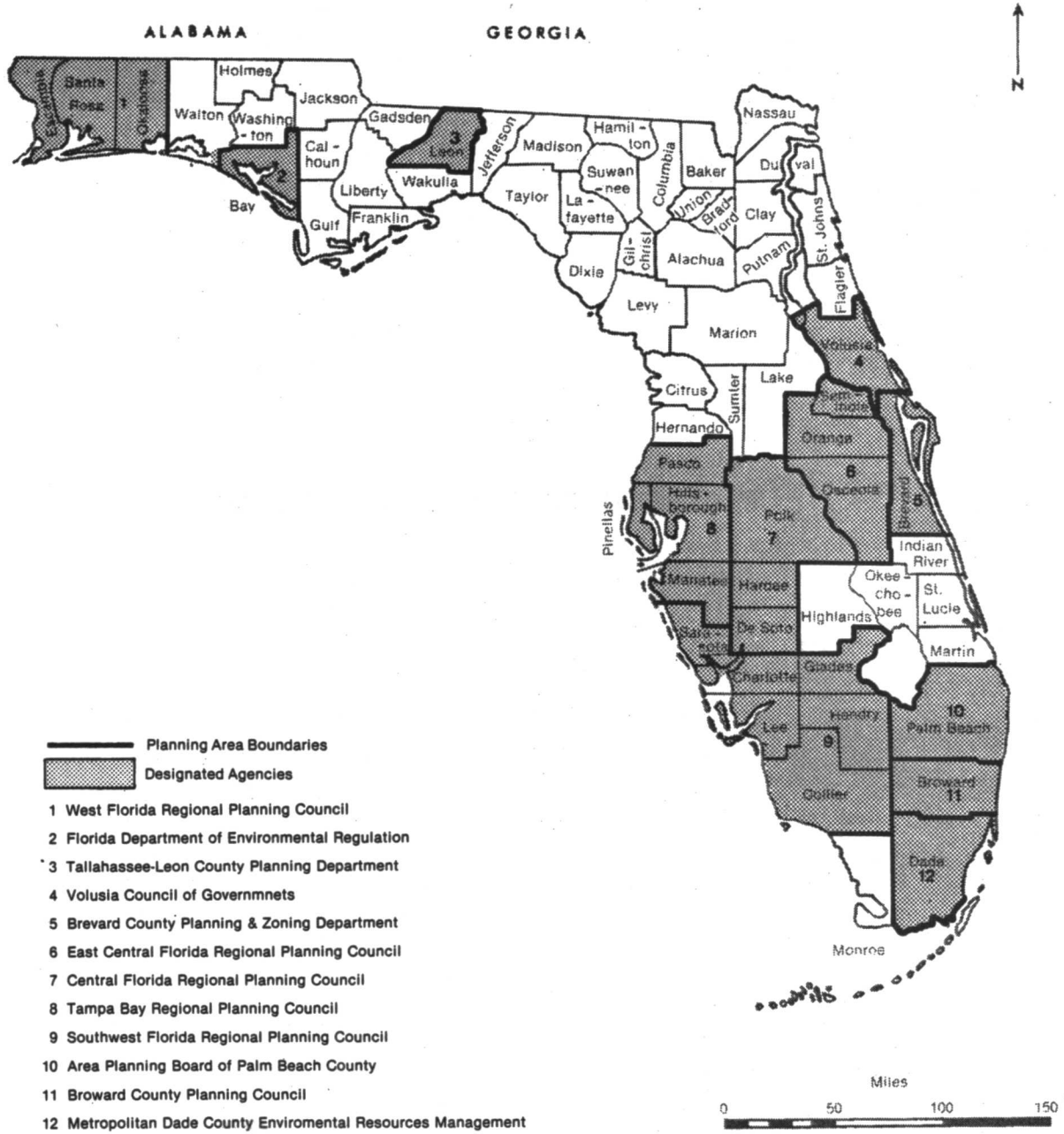


Figure 19. Areawide wastewater management planning areas (Florida Power and Light Co. 1979).



Figure 20. Regional Planning Council area boundaries (Florida Power and Light Co. 1979).

Table EIR 1. Location and description of solid waste problem areas (Florida Resources and Environmental Analysis Center 1978).

| Site <sup>a</sup>             | Location   | Description  |
|-------------------------------|--|--|
| Allentown                     | 1.5 mi N. of Allentown,<br>5 mi N. of SR-87,<br>Santa Rosa County          | 2.5-acre dump operated by Santa Rosa county commission, owned by St. Regis Paper Co.               |
| Argyle                        | 1.0 mi NE. of Jct. I-10,<br>SR-183, Walton County                          | 20.0-acre dump owned, operated by the county commission  |
| Baker                         | 2.1 mi SE. of Baker, NE.<br>side of SR-4,<br>Okaloosa County               | 80.0-acre dump, owned, operated by the county commission   |
| Baker                         | 2.0 mi SE. of Baker, at<br>Jct. SR-4B, SR-4<br>Okaloosa County             | Unknown  |
| 242 Bayou Woods               | Corner Bayou Woods, Sotir<br>Drive, Fort Walton Beach,<br>Okaloosa County  | Closed 9/75  |
| Berrydale                     | 2.5 mi N. of Jct. SR-4 &<br>SR-87, Santa Rosa County                       | 2.0-acre dump, owned, operated by the county commission, closed 7/75                               |
| Blue Mountain                 | 1.0 mi S. of U.S. 98, W. side<br>of SR-835, Walton County                  | 42.5-acre dump, operated by S. Walton County Mosquito Control district, owned by St. Joe Paper Co. |
| Buckhorn<br>Sanitary Landfill | 0.2 mi W. of SR-71, 0.5 mi<br>S. of county line, Gulf County               | 40.0-acre dump, owned and operated by the county commission  |
| Buelah<br>Sanitary Landfill   | Jamesville Rd. 0.5 mi N. of U.S.<br>90 W. of Pensacola,<br>Escambia County | 23.0-acre dump, owned and operated by Escambia County Solid Waste Department                       |

Continued

Table EIR 1. Continued.

| Site                                | Location   | Description  |
|-------------------------------------|--|--|
| Carrabelle City Dump                | End of SR-376, Carrabelle Airport, Franklin County               | 8.3-acre dump, owned and operated by city of Carrabelle                        |
| Chumuckla                           | 0.5 mi S. of Jct. SR-182, SR-197, Santa Rosa County              | 1.0-acre dump, operated by the county commission, owned by St. Regis Paper Co. |
| City Dump, Apalachicola             | 2.0 mi NW. of Apalachicola SR-384, Franklin County               | 22.0-acre dump, owned and operated by city of Apalachicola                     |
| City of Pensacola, Transfer Station | 100 W. Leonard St., Escambia County                              | Volume reduction site, owned and operated by city of Pensacola                 |
| Crestview                           | 2.0 mi SE. of Jct. I-10, SR-85 on John King Rd., Okaloosa County | 40.0-acre dump, owned and operated by the city of Crestview                    |
| DeFuniak Springs                    | 0.8 mi SSW. of Airport, Walton County                            | 20.0-acre dump, owned and operated by city of DeFuniak Springs                 |
| East Milton, Airport Landfill       | N. end of Airport, Santa Rosa County                             | 120.0-acre dump, owned and operated by the county commission                   |
| Eastpoint Landfill                  | 1.5 mi NE. of Eastpoint, Franklin County                         | 23.0-acre dump, owned by Vrooman Trust, operated by the county commission      |
| Ebro                                | 1.0 mi NNW. of Ebro, Franklin County                             | 40.0-acre dump owned by power company, operated by the county commission       |
| 5 Mile Camp                         | 6 mi SW. of Century, Escambia County                             | 4.6-acre sanitary landfill owned and operated by the county commission         |

Continued

Table EIR 1. Continued.

| Site                               | Location  | Description   |
|------------------------------------|---|---|
| Freeport                           | 1.5 mi S. of Jct. SR-20,<br>SR-83A, Walton County                   | 20.0-acre dump, owned and operated<br>by the county commission                                |
| Holley                             | 1.0 mi N. of East Bay Bridge,<br>SR-87, Santa Rosa County           | 1.5-acre dump, operated by the<br>county commission, owned by<br>Eglin A.F.B., closed 2/76    |
| Holley #2                          | 2.0 mi E. of Holley,<br>Santa Rosa County                           | Owned and operated by the county<br>commission  |
| Holt                               | 1.5 mi SW. of Holt, N. of RR.,<br>Okaloosa County                   | Dump, owned by St. Regis Paper<br>Co., operated by city of Fort<br>Walton Beach, closed 11/75 |
| Honeyville                         | 1.0 mi SSE. of Honeyville,<br>Gulf County                           | 12.0-acre dump, owned and operated<br>by the county commission                                |
| Howard's Creek                     | 0.5 mi S. of SR-387, at Howard<br>Creek Subdivision,<br>Gulf County | 4.0-acre dump, owned and operated<br>by the county commission                                 |
| Jay                                | S of SR-4, 4.0 mi W. of Jay,<br>Santa Rosa County                   | 8.5-acre dump, owned and operated<br>by the county commission                                 |
| Klondike Rd.,<br>Sanitary Landfill | U.S. 90, Klondike Rd.,<br>Escambia County                           | 95 acres, owned and operated by<br>Escambia County Solid Waste<br>Department                  |
| Lanark Village                     | 2.0 mi ENE. of Lanark Village,<br>Franklin County                   | 29.0-acre dump, owned by St. Joe<br>Paper Co., operated by the county<br>commission           |
| Laurel Hill                        | 1.1 mi NW. of Laurel Hill,<br>Okaloosa County                       | 20.0-acre dump, owned and operated<br>by the county commission                                |

Continued



Table EIR 1. Continued.

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| Site                       | Location   | Description   |
|----------------------------|--|---|
| Laurel Hill #2             | 2.0 mi W. of Laurel Hill, N. of SR-85, Okaloosa County                 | Owned and operated by the county commission   |
| Lynn Haven                 | 1.3 mi E. of Lynn Haven, S. of SR-390, Bay County                      | 10.0-acre dump, owned and operated by the city of Lynn Haven, closed 5/77                                   |
| Majette Bayou George       | 1710 Alabama Ave. Lynn Haven, Bay County                               | 320.0-acre sanitary landfill, owned and operated by the county commission                                   |
| Mexico Beach               | N. of U.S. 98, 11.6 mi SE. of Tyndall A.F.B., Bay County               | 5.0-acre dump, owned by St. Joe Paper Co., operated by the county commission                                |
| Mossy Head                 | 1.0 mi N of Jct. U.S. 90, SR-285, Walton County                        | 1.0-acre dump, owned and operated by the county commission  |
| Munson                     | 0.8 mi E. of Jct. SR-194, SR-4, Santa Rosa County                      | 1.5-acre dump, owned by Blackwater River State Forest, operated by the county commission                    |
| New Harmony                | 1.0 mi W. of Jct. SR-187, SR-2A, Walton County                         | 1.0-acre dump, owned and operated by the county commission  |
| Newport Sanitary, Landfill | 0.3 mi W. of Jct. of Jackson St. & Keys Ct. Pensacola, Escambia County | 4.0-acre sanitary landfill, owned by Omni-Vest, Inc., operated by Reichold Chemicals Inc., Newport Division |
| Niceville-Valpariso        | 1.5 mi NNW. of Jct. SR-20, SR-85, Okaloosa County                      | 40.0-acre dump, owned and operated by the county commission   |
| Oak Grove Landfill         | 1.5 mi E. of Oak Grove, Gulf County                                    | 15.0-acre dump, owned and operated by the county commission   |

Continued

Table EIR 1. Continued.

| Site                             | Location  | Description  |
|----------------------------------|---|--|
| Pace                             | SR-197, U.S. 90,<br>Santa Rosa County                                     | 40.0-acre dump, owned and operated<br>by the county commission   |
| Panama City Beach                | N. Gulf Blvd., Panama City<br>Beach, Gulf County                          | 40.0-acre dump, owned and operated<br>by Gulf Mosquito Control District                                |
| Panama City,<br>Transfer Station | Bay Ave., 15th St.<br>Panama City, Bay County                             | Volume reduction site, owned and<br>operated by Panama City  |
| Paxton                           | 0.2 mi W. of Jct. SR-180,<br>SR-187, Walton County                        | 2.0-acre dump, owned and operated<br>by the county commission  |
| Pioneer Sand Pit                 | S. end of Soufley Field,<br>Escambia County                               | 15.3-acre sanitary landfill, owned<br>and operated by the Pioneer Sand<br>Co.                          |
| Port St. Joe                     | 1.5 mi NE. of Jct. U.S. 98,<br>SR-382, Gulf County                        | 18.0-acre dump, owned and operated<br>by the county commission   |
| Quinette Landfill                | 2.1 mi NE. of Jct. SR-95A,<br>SR-184, on Quinette Rd.,<br>Escambia County | 9.2-acre dump, owned and operated<br>by the county commission  |
| Southport                        | 1.1 mi NNW. of Southport, E.<br>of SR-77, Bay County                      | 10.0-acre dump, owned by Hunt Oil<br>Co., operated by the county<br>commission                         |
| St. George Island                | Bayshore Dr. and 2nd. St., W.<br>on Island, Franklin County               | 1.0-acre dump, owned by Leisure<br>Properties, Ltd., operated by the<br>county commission, closed 2/76 |
| St. Teresa Dump                  | 0.3 mi NW. of Camp Weed, N. side<br>U.S. 98, Franklin County              | 7.0-acre dump, owned by St. Joe<br>Paper Co., operated by the<br>county commission                     |

Continued

Table EIR 1. Concluded.

| Site          | Location   | Description   |
|---------------|--|---|
| Walton Bridge | Old Walton Bridge Rd. at Big Branch Creek, Walton County       | 2.0-acre dump, owned and operated by the county commission                |
| West Red Bay  | 2.6 mi W. of Red Bay, Walton County                            | 1.0-acre dump, owned and operated by the county commission                |
| White City    | SR-71 at Intracoastal Waterway, Gulf County                    | 5.0-acre dump, owned and operated by the county commission                |
| Wright        | 1.6 mi N. of Beal St. extension, Eglin A.F.B., Okaloosa County | 160.0-acre dump, owned by Eglin A.F.B., operated by the county commission |

<sup>a</sup> Two categories of sites are listed: "sanitary landfills" and "dumps". A sanitary landfill meets all of the requirements of the Department of Environmental Regulation permitting program, a dump does not.

Table EIR 2. Location and description of solid waste facilities by county (Florida Department of Environmental Regulation, Solid Waste Management Program 1981a).

| County   | Site name                                  | Address                           | Population served<br>ton/day<br>site area <sup>a</sup> | # Monitoring wells (MW)<br>special waste & spilled<br>materials accepted <sup>a</sup> |
|----------|--|-----------------------------------|--|---|
| Bay      | Panama City<br>Beach trans-<br>fer station | N. Gulf Blvd.                     | 14,000,<br>100 yd <sup>3</sup> /d                      | 100 yd <sup>3</sup> , hopper<br>7 yd <sup>3</sup> , compactor                         |
|          | Southport dump                             | SR-77                             | 2,500,<br>10 acres                                     |   |
|          | Panama City<br>transfer station            | Bay Ave. and 15th St.             | 40,000<br>160 ton/day<br>1-acre site                   | household/commercial  |
|          | Majette Tower <sup>b</sup>                 | S. of SR-390 on<br>John Pitts Rd. | 90,000<br>255 tons/day<br>200-acre site                | 3 MW<br>9 monitoring points<br>accept emergency spill                                 |
|          | Bay County solid<br>waste lf site          | Hwy. 20 and Hwy. 77               | 100,000<br>978 yd <sup>3</sup> /d                      | 5 MW  |
|          | Bay County <sup>c</sup>                    | SR-20 and SR-77                   | N.D.   | 6 MW  |
| Escambia | Beulah slf                                 | Jamesville Rd.                    | 185,000<br>23-acre site                                | 1 active sludge bed   |
|          | Quinette dump                              | Quinette Rd.                      | 15,000<br>9.2-acre site                                | N.D.  |
|          | Pioneer sand pit                           | N.D.                              | Industrial site<br>15.3-acre site                      | 1 MW  |

Continued

Table EIR 2. Continued.

| County   | Site name                             | Address             | Population served<br>ton/day<br>site area                         | # Monitoring wells (MW)<br>special waste & spilled<br>materials accepted |
|----------|---------------------------------------|---------------------|---|--|
| Escambia | Perdido <sup>C</sup>                  | Beulah-Muskogee Rd. | 255,000<br>700 ton/day<br>424-acre site                           | 7 MW   |
|          | 5 Mile Camp dump                      | Old Bratt Rd.       | 3,500<br>4.6-acre site  | N.D.   |
|          | City of Pensacola<br>transfer station | 100 W. Leonard St.  | 65,000 <sub>3</sub><br>110 yd <sup>3</sup> /d                     | N.D.   |
|          | Klondike Rd. <sup>C</sup>             | Klondike Rd.        | 185,000 <sub>3</sub><br>3700 yd <sup>3</sup> /d<br>95.0-acre site | 3 MW   |
| Franklin | Franklin County <sup>C</sup>          | SR-65               | 10,700<br>70 yd <sup>3</sup> /d<br>7-acre site                    | 4 MW   |
| Gulf     | Port St. Joe <sup>C</sup>             | Niles Rd.           | 6,600<br>18-acre site   | 3 MW<br>not in operation   |
|          | Buckhorn <sup>C</sup>                 | SR-71               | 4,500<br>40-acre site   | 1 MW   |
|          | Honeyville dump                       | N.D.                | 500<br>12-acre site   | N.D.   |

Continued

Table EIR 2. Continued.

| County   | Site name              | Address            | Population served<br>ton/day<br>site area                     | # Monitoring wells (MW)<br>special waste & spilled<br>materials accepted |
|----------|------------------------|--------------------|---|--|
| Gulf     | Howard's Creek<br>Dump | SR-387             | 500<br>4-acre site  | N.D.   |
|          | Oak Grove dump         | N.D.               | 1,000<br>15-acre site   | N.D.   |
|          | Port St. Joe<br>dump   | U.S. 98 and SR-382 | 4,000<br>18-acre site   | N.D.   |
|          | White City dump        | SR-71              | N.D.  | N.D.   |
| Okaloosa | Baker #1 dump          | N.D.               | 6,000   | 2 MW   |
|          | Niceville <sup>C</sup> | SR-26 and SR-85    | 26,000 <sub>3</sub><br>310 yd <sup>3</sup> /d<br>20-acre site | 3 MW   |
|          | Wright #2 <sup>C</sup> | N. Beal St.        | 60,000<br>1315 yd <sup>3</sup> /d<br>160-acre site            | 4 MW   |
|          | Laurel Hill #2         | N. of SR-85A       | 5,000<br>20-acre site   | 2 MW   |
|          | Baker <sup>C</sup>     | SR-4 and SR-4B     | 20,000<br>36-acre site  | 3 MW   |

Continued

Table EIR 2. Continued.

| County   | Site name                          | Address                                | Population served<br>ton/day<br>site area         | # monitoring wells (MW)<br>special waste & spilled<br>materials accepted |
|----------|------------------------------------|--|---|--|
| Okaloosa | Baker #2 <sup>C</sup>              | 1/4 mi W.<br>of Baker #1               | 6,000<br>185 yd <sup>3</sup> /day<br>36-acre site | 2 MW   |
|          | Santa Rosa<br>Central <sup>C</sup> | Galt City Rd.                          | 9,300<br>1140 yd <sup>3</sup> /d<br>114-acre site | 3 MW<br>sludge drying beds   |
|          | Holley #3                          | N.D.                                   | 10,000<br>730 yd <sup>3</sup> /d<br>80-acre site  | 3 MW   |
|          | Santa Rosa N.                      | SR-4                                   | 10,000<br>190 yd <sup>3</sup> /d<br>35-acre site  | 3 MW   |
|          | Northwest <sup>C</sup>             | 1/2 mi W. of Hwy. 89<br>7 mi S. of Jay | 6,000<br>60 yd <sup>3</sup> /d                    | 1 MW   |
| Walton   | Blue Mountain<br>dump              | SR-83S                                 | 6,250<br>42-acre site                             | N.D.   |
|          | New Harmony dump                   | SR-187 and SR-2A                       | 150<br>1.0-acre site                              | N.D.   |
|          | Paxton dump                        | SR-180 and SR-187                      | 150<br>2-acre site                                | N.D.   |

Continued

Table EIR 2. Concluded.

| County | Site name                  | Address          | Population served<br>ton/day<br>site area | # Monitoring wells (MW)<br>special waste & spilled<br>materials accepted |
|--------|----------------------------|------------------|---|--|
| Walton | Walton County <sup>c</sup> | County Rd. 183-A | 12,000<br>40-acre site                    | 1 MW   |

<sup>a</sup> Data were presented as found.  
<sup>b</sup> Landfill.  
<sup>c</sup> Sanitary landfill.



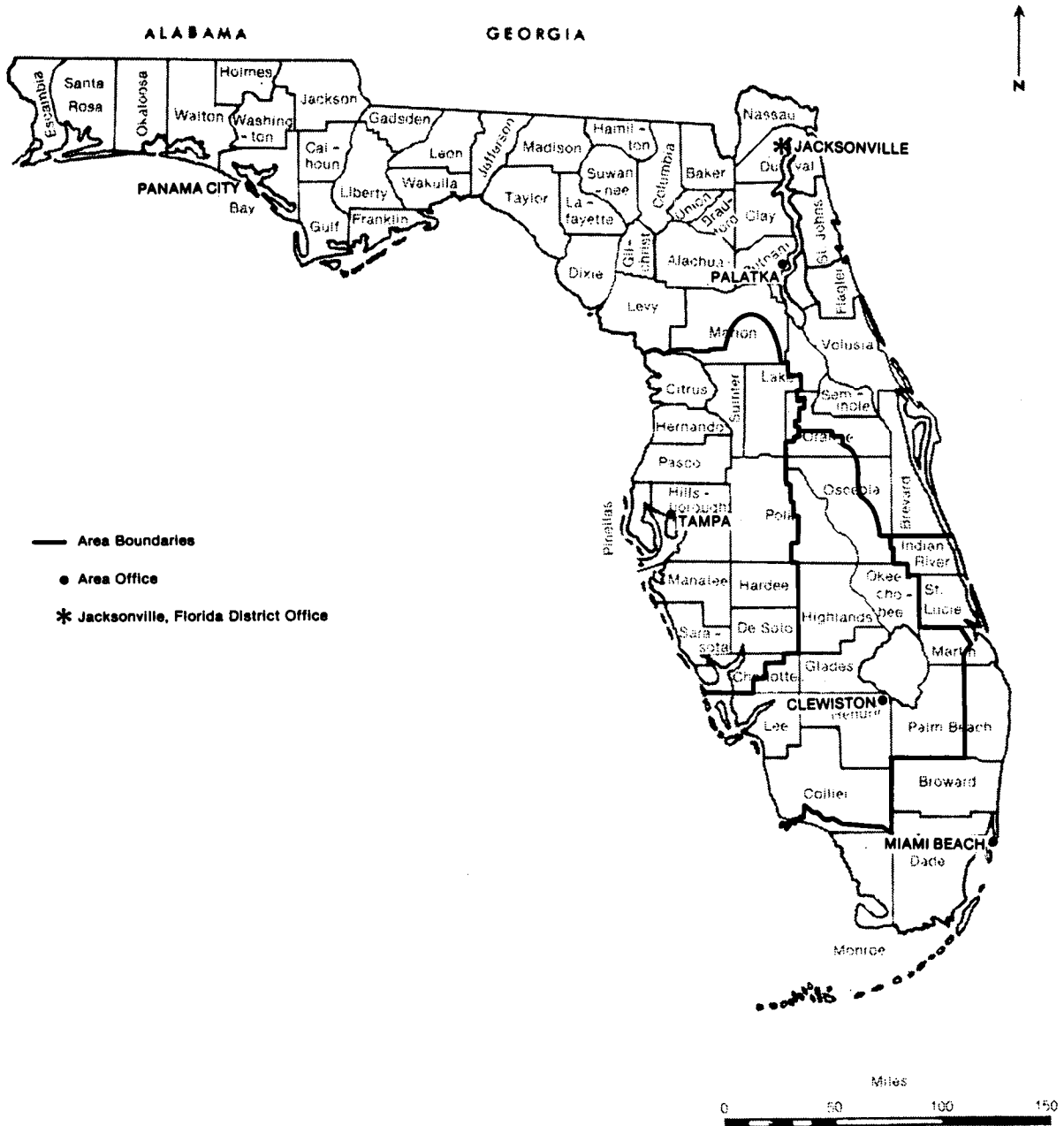


Figure 21. U.S. Army Corps of Engineers regulation districts (Florida Power and Light Co, 1979).

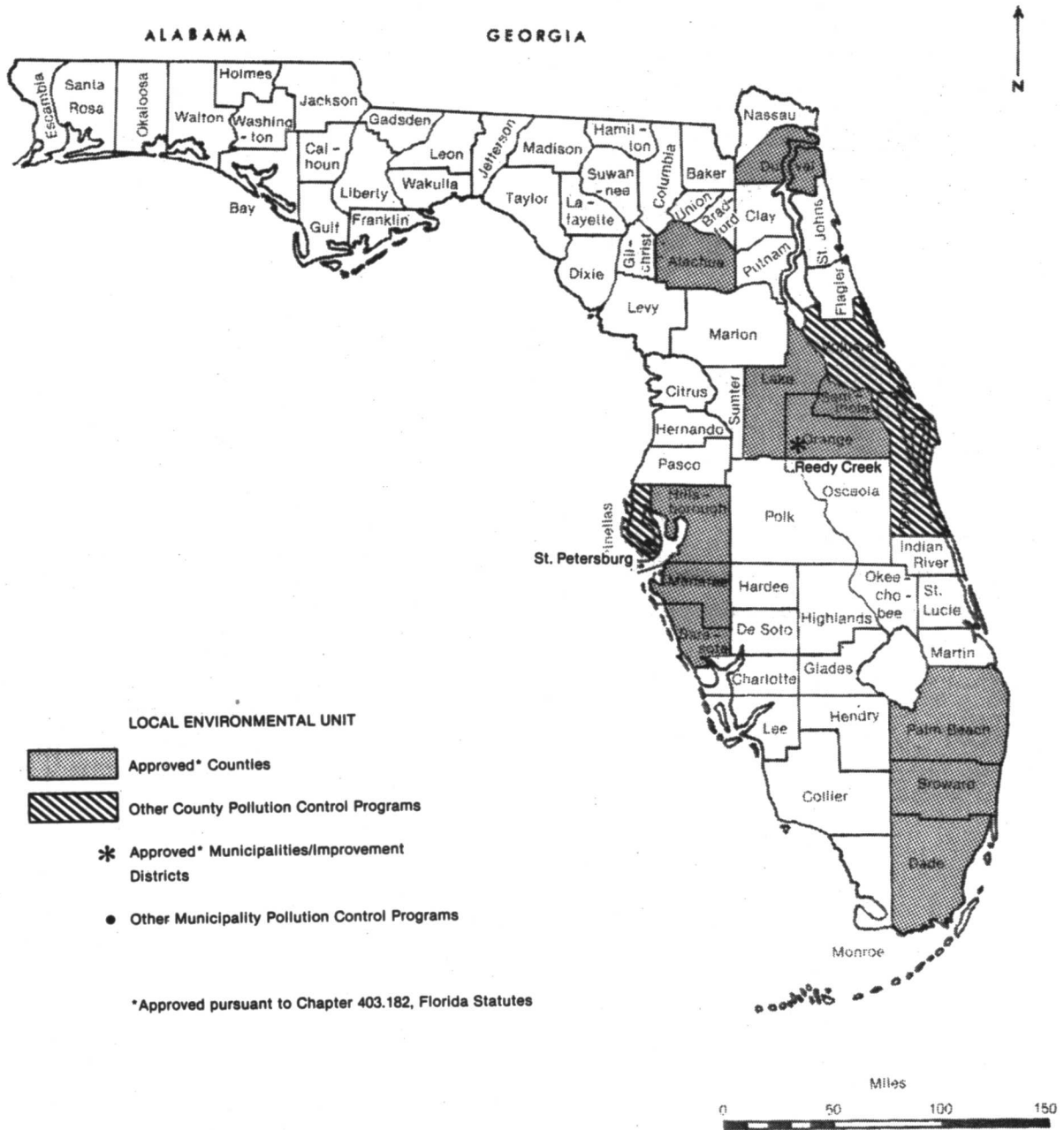


Figure 22. Local pollution control programs (Florida Power and Light Co. 1979).

Table EIR 3. Hazardous waste incident, Youngstown train derailment (Herndon and Teaf 1978).

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Personal damage: Eight deaths and more than 100 injuries. Also, more than 3,700 persons had to be evacuated from within a 10-mile radius of the spill.

Environmental damage: Minor. On 24 March and 26 June 1978, representatives from the U.S. Environmental Protection Agency (EPA), Region IV visited the derailment site and determined that the clean-up operations were satisfactory, the chlorine neutralization pits were successfully covered and that the area was "environmentally secure."

Economic damage: Uncalculated, but would include extensive costs to local, state and federal groups involved in the rescue, evacuation and treatment of injured persons, as well as costs for teams necessary to safely treat and clean up potentially hazardous wastes from the wreck.

Cause of problem: The derailment of a train, including a tank car which carried chlorine.

Type and quantity of hazardous waste: A ruptured railroad tank car carrying several thousand gallons of liquid chlorine.

Date of incident: 26 February 1978.

Location: Youngstown, Bay County.

Remedial action: Evacuation was carried out within a 10 to 12 mi radius of the wreck site, and the chlorine-containing tanker car was transported on foam to a nearby pit dug specifically for the purpose. The chlorine was carefully bled into the pit along with a large volume of caustic soda and water. The tank car was then filled with water to stabilize the residual chlorine. Existing drinking water wells were more than 0.5 mi away, but monitoring of well water and surface water continued in order to detect possible future contamination. EPA representatives set January 1979 as the time after which wells safely could be drilled in the area.

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Table EIR 4. Hazardous waste incident, Fanning Bayou fish kill (Herndon and Teaf 1978).

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Personal damage: None.

Environmental damage: Extensive local fish kill and undetermined damage to other aquatic life in Fanning Bayou, Bay County by spilled chemicals and tank truck washings.

Economic damage: Repairs to the dike system by McKenzie Tank Lines were made at a cost of \$7,300.83. Possible fines and subsequent damages due to the fish kill could total over \$46,000.

Cause of problem: A ruptured dike at the Southport site of McKenzie Tank Lines caused a large quantity of chemical contaminants and tank washing solutions to spill into Charlie Williams Creek and Fanning Bayou.

Type and quantity of hazardous waste: 35,000 gal of wastewater containing Oakite 24 steam cleaning compound, neutralized spent acids, phenols, oils and greases and various grades of resin.

Date of incident: 13 October 1976.

Location: McKenzie Tank Lines property adjoining Charlie Williams Creek and Fanning Bayou, Southport, Bay County, S. of SR-391.

Remedial action: Repairs to the dike took place on the day following the spill, 14 October and action was taken against McKenzie Tank Lines by the Florida Department of Environmental Regulation beginning with a warning notice on 20 October 1976 and recommendation for penalties for violation of pollution laws on 1 December 1976.

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Table EIR 5. Hazardous waste incident, Crestview train derailment, Okaloosa County (Teaf 1980).

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Personal damage: Fourteen persons injured by inhalation of toxic fumes from a damaged chlorine tank car. Two of these were hospitalized after being overcome by chlorine fumes at ground level which were disturbed by helicopter rotor downwash during a helicopter surveillance overflight by investigators from the National Transportation Safety Board (NTSB) and the U.S. Senate.

Environmental damage: Trees and groundcover were defoliated by the ammonia cloud for approximately 650 ft NW. of the derailment site. There was extensive fire damage within a 150-ft radius of the burning cars. Dead fish were observed in the immediate area of the leaking phenol car. Subsequent biological assessment of the area indicated significant damage to aquatic life in the Yellow River extending for 900 yd downstream from the derailment site.

Economic damage: Damaged or destroyed equipment was valued at \$813,000, damaged track or structures were estimated at \$258,000, lost or contaminated product was valued at \$187,000. Total damages were approximately \$1,258,000. Total costs to various agencies in response and sampling efforts were not available. Costs were not assigned to damaged wildlife.

Cause of problem: Derailment of 29 cars of a 119-car freight train owned by Louisville and Nashville (L&N) Railroad. Of the derailed cars, 26 were placarded hazardous materials tank cars.

Type and quantity of hazardous waste: Twenty-six derailed cars containing hazardous materials included 17 containing anhydrous ammonia, 3 containing acetone, 4 containing methyl alcohol, 1 containing chloride and 1 containing carbolic acid.

Date of incident: 8 April 1979.

Location: L&N Railroad bridge at Yellow River, 5 mi W. of Crestview, FL.

Remedial action: By 6 April all cars had been derailed, destroyed, or had cargo transferred to other holding facilities. With the exception of materials destroyed by fire, only the chloride car was disposed of on-site. Its contents were drained into a lined pit where the material was mixed with caustic soda to neutralize the chlorine.

L&N Railroad was ordered to pay the Florida Department of Environmental Regulation (DER) costs (\$4,403.44) and a fine (\$20,000) in connection with the derailment. A check for the total amount was received by DER on 28 November 1979.

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Table EIR 6. Hazardous waste incident, demolition of out-of-date laboratory reagents from Escambia County schools (Teaf 1980).

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Personal damage: None.

Environmental damage: None.

Economic damage: Not calculated, but includes cost of Navy team of explosives experts from Panama City to package and remove 22 oz of crystallized picric acid. In addition, following this incident an extensive inventory was undertaken to identify, repackage and dispose of other potentially dangerous, outdated reagents at the schools.

Cause of problem: Discovery of 22 oz of outdated, crystallized picric acid, a close structural relative of trinitrotoluene (TNT), at three schools in Escambia County. This incident led to the discovery of many other stored chemicals, the shelf life of which had expired and which posed a potential threat because of their flammability, toxicity or explosive nature.

Type and quantity of hazardous waste: Small quantities (1-5 lb) of a wide variety of potentially dangerous, outdated laboratory reagents found stored at several (12) Escambia County schools. Particularly dangerous was a total of 1.5 lb of picric acid found at three schools.

Date of incident: May - June 1979.

Location: Twelve Escambia County public schools.

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Table EIR 7. Hazardous waste incident, phenolic sludges discharged into Bayou Chico, Escambia County (Teaf 1980).

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Personal damage: None.

Environmental damage: The soil surrounding the Reichold Chemical Co. plant contains extensive hydrocarbon residues from chemical processing dating back 50 years or more.

Economic damage: Improvements in treatment facilities to reduce discharge were estimated to cost approximately \$83,000. Costs of monitoring and enforcement were not available.

Cause of problem: Presence of hydrocarbons in soils of Reichold Chemical Co. This problem is aggravated by inadequate treatment and retention of industrial wastes by Reichold's current operation. Soils produce a chronic discharge of hydrocarbons into Bayou Chico.

Type and quantity of hazardous waste: Soil contains rosins and various hydrocarbons including oils, grease and phenols. Phenol concentration has been measured at 400 micrograms/liter in Bayou Chico near discharge point. Volume of the discharge has not been estimated.

Date of incident: This is a chronic problem dating back many years. Occasional equipment malfunctions aggravate the problem.

Location: Reichold Chemical Co. plant on the NE. arm of Bayou Chico, Escambia County.

Remedial action: Reichold Chemical Co. is currently improving their treatment facilities to reduce sludge discharge in accordance with agreements worked out with the Florida Department of Environmental Regulation (DER).

Narrative: Reichold Chemical Co. has been in operation for 50 or more years. Their original business was removing old pine stumps and processing them to obtain turpentine and other hydrocarbon products. This activity was carried on for many years without regard for pollution of the surrounding area. Consequently, hydrocarbon wastes have built up in the soil to the extent that a chronic discharge of these wastes into Bayou Chico occurs.

This chronic problem led to investigation of Reichold's current waste treatment facilities. These were found to be inadequate. On 26 March 1979 Reichold Chemical Co. signed a Florida DER consent order thereby agreeing to improve their treatment facilities. These improvements are designed to reduce the amount of discharge, particularly phenols.

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Table EIR 8. Hazardous waste incident, industrial waste discharge into Airplane Bayou, Escambia County (Teaf 1980).

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Personal damage: None.

Environmental damage: An estimated 20,000 poeciliid fish were killed.

Economic damage: Cost to the State of Florida for tracing, controlling and abating the pollution was estimated at \$455.22. Penalty damages for fish kill were settled for \$600.00.

Cause of problem: Malfunction of an industrial waste treatment lift (pump) station at the U.S. Navy Aircraft Rework Facility, Pensacola.

Type and quantity of hazardous waste: Approximately 80,000 gal of untreated industrial wastes, primarily paint sludges containing oils, grease and phenols.

Date of incident: 12 January 1979.

Location: U.S. Navy Aircraft Rework Facility in Pensacola. Discharge was into Airplane Bayou near this facility.

Narrative: On 12 January 1979 a lift (pump) station malfunction at the U.S. Navy Aircraft Rework Facility in Escambia County caused approximately 80,000 gal of untreated industrial sludge to be discharged into Airplane Bayou. This sludge contained primarily grease, oils and phenols. As a result of this spill, about 20,000 fish were killed.

The Navy signed a Department of Environmental Regulation (DER) consent order in August 1979 thereby agreeing to reimburse the State of Florida for pollution control efforts and for damages resulting from the fish kill. Reimbursement for pollution control amounted to \$455.72. Damages were settled for a total of \$600.00. The Navy also agreed to submit operation and emergency procedures designed to prevent a recurrence of the problem.

The waste sludges produced by the Navy at the rework facility had been of concern since at least 1976. Several laboratory analyses were conducted to determine the types and relative amounts of hazardous materials present in the sludge. The results of these analyses showed the presence of phenols, some heavy metals, and other substances classified as hazardous. This knowledge required changing disposal procedures which had previously consisted of dumping the sludge in a nearby landfill. A decision was made to ship the sludge to the Chemical Waste Management of Alabama waste disposal facility in Livingston, AL.

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Table EIR 9. Hazardous waste incident, stored pesticide at Escambia County Rodent Control (Teaf 1980).

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Personal damage: None.

Environmental damage: None.

Economic damage: Not calculated, but probably low due to minimal leaching from deteriorated containers and rapid response by a disposal team from the pesticide manufacturer. Costs were limited to time required for re-packaging and removal by pesticide manufacturer.

Cause of problem: A substantial quantity of outdated pesticide powder was stored in containers which were deteriorating and leaking.

Type and quantity of hazardous waste: Approximately 70 lb of pesticide powder named "A-Dust", of which the active ingredient is calcium cyanide. This compound generates toxic cyanide gas on contact with water.

Date of incident: Transportation and disposal problem was brought to the attention of Florida Department of Environmental Regulation (DER) on 10 January 1980.

Location: Pesticide was stored at the warehouse of Escambia County Rodent Control, Pensacola, Escambia County.

Remedial action: Florida DER officials contacted the pesticide manufacturer, American Cyanamid, who agreed to coordinate the disposal of the material. This was accomplished in January 1980.

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Table EIR 10. Hazardous waste incident, Molino train derailment, Escambia County (Teaf 1980).

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Personal damage: None. Evacuation was carried out to a distance of two mi from the incident site, and increased to five mi during detonation operations. Approximately 200 persons were included in the evacuation.

Environmental damage: Extensive. 100% biological destruction was estimated for 25.5 acres, 99% was estimated for 3.5 acres and 76% destruction was estimated for an additional 3.5 acres. A total of 32.5 acres were determined to be severely affected (greater than 75% biological destruction).

Economic damage: Value of the biological damage described above was calculated at a minimum of \$1,961,000 and a maximum of \$7,465,000. A "moderate" value of \$5,129,000 was recommended as a figure for out-of-court settlement of damages. Cost of the biological evaluation was calculated to be \$1,976. Costs of \$48,455 from demolition of the tank cars were billed to the U.S. Environmental Protection Agency (EPA).

Cause of problem: Derailment of 22 cars of a 105-car Louisville and Nashville (L&N) train, 19 of which contained hazardous materials.

Type and quantity of hazardous waste: Six railroad cars containing liquid petroleum gas (LPG), 1 containing acetone, 1 containing styrene, 1 containing methylethyl ketone, and 10 cars containing liquid sulfur.

Date of incident: 11-14 November 1979.

Location: L&N Railroad Line approximately 2 mi W. of Molino, Escambia County. The site was adjacent to Pretty Branch Creek.

Remedial action: After consideration of several alternatives, it was decided by the Regional Response Team that controlled detonation of the liquid petroleum gas was the safest way to proceed. This was accomplished on 14 November. Although an on-site inspection by federal and state authorities found the area safe, and stated that threat of further pollution was insignificant, subsequent surveys by the Florida Department of Environmental Regulation in late December 1979 showed the area to be still heavily affected by the spilled chemicals.

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Table EIR 11. Inventory of potential hazardous waste sites by county<sup>a</sup> (Florida Department of Environmental Regulation 1981b).

| County   | Site                            | Type      | Permit      | Status | Degree | Other   |
|----------|---------------------------------|-----------|-------------|--------|--------|---------|
| Bay      | International Paper Co.         | Private   | N.D.        | N.D.   | Medium | No pond |
|          | Majette Tower Site              | Municipal | Operational | Active | Medium | No pond |
|          | Southwest Forest Industries     | N.D.      | N.D.        | N.D.   | N.D.   | N.D.    |
| Escambia | Air Products and Chemicals      | N.D.      | N.D.        | N.D.   | N.D.   | N.D.    |
|          | Klondike Landfill               | Municipal | Operational | Active | High   | No pond |
|          | Monsanto                        | N.D.      | N.D.        | N.D.   | N.D.   | N.D.    |
|          | Pioneer Sand Co.                | Private   | None        | Active | High   | No pond |
|          | Reichhold Chemical (Bell's Pit) | Municipal | N.D.        | N.D.   | High   | Pond    |
|          | Reichhold Chemical              | N.D.      | N.D.        | N.D.   | N.D.   | N.D.    |
|          | St. Regis Paper Co.             | Private   | N.D.        | N.D.   | Low    | No pond |
|          | Beulah Landfill                 | Municipal | No          | Active | High   | No pond |
|          | Green's Pit                     | N.D.      | N.D.        | N.D.   | N.D.   | N.D.    |

Continued

Table EIR 11. Concluded.

| County     | Site   | Type      | Permit | Status | Degree | Other   |
|------------|--|-----------|--------|--------|--------|---------|
| Escambia   | Pensacola Plant  | N.D.      | N.D.   | N.D.   | N.D.   | N.D.    |
| Escambia   | Jim Walter Doors Century, FL                                 | N.D.      | N.D.   | N.D.   | Low    | N.D.    |
| Gulf       | Allied Chemical Corporation                                  | Private   | N.D.   | N.D.   | Medium | No pond |
| Gulf       | City of Port St. Joe<br>Port St. Joe, FL                     | Municipal | No     | Active | Medium | No pond |
| Santa Rosa | Santa Rosa County Site (Also PPG Industries)                 | Private   | N.D.   | N.D.   | Medium | No pond |
| Santa Rosa | Santa Rosa Land-fill ( Also American Cyanamid)<br>Milton, FL | County    | Yes    | Active | Low    | No pond |

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<sup>a</sup> This data reflects information provided by the Eckhardt Sub-Committee of the U.S. House of Representatives, the U.S. Environmental Protection Agency and the Florida Department of Environmental Regulation.

Table EIR 12. Total number of industrial surface impoundments in Florida by size in acres (Florida Department of Environmental Regulation 1980b).

|        | Total number of<br>Industrial impoundments | Size<br>(acres) |
|--------|--|-----------------|
|        | 508  | 1               |
|        | 172  | 1-5             |
|        | 81   | 6-15            |
|        | 57   | 16-40           |
|        | 87   | 40              |
|        | 431  | N.D.            |
| Region | 1336                                       | N.A.            |

Table EIR 13. Total number of industrial impoundments and total number with monitoring wells and liners (Florida Department of Environmental Regulation 1980b).

| County     | Total number of<br>impoundments | Number with<br>monitoring wells | Number with<br>liners |
|------------|---------------------------------|---------------------------------|-----------------------|
| Bay        | 5                               | 1                               | 1                     |
| Escambia   | 30                              | 9                               | 14                    |
| Franklin   | 0                               | 0                               | 0                     |
| Gulf       | 2                               | 0                               | 0                     |
| Okaloosa   | 5                               | 2                               | 3                     |
| Santa Rosa | 12                              | 8                               | 2                     |
| Walton     | 0                               | 0                               | 0                     |
| Region     | 54                              | 20                              | 20                    |

Table EIR 14. Identified air quality problems (U.S. Army Corps of Engineers 1978).

| Site                                     | Location                      | Description   |
|--|-------------------------------|---|
| Agrico Chemical Division                 | Pensacola,<br>Escambia County | Chemical phosphate; emission<br>of particulates                   |
| Alger-Sulliva Co.                        | Century,<br>Escambia County   | Wood industry, emission of<br>particulates                        |
| American Creosote<br>Works, Inc.         | Pensacola,<br>Escambia County | Wood industry, emission of<br>particulates                        |
| American Cyanamid                        | Milton, Santa Rosa County     | Acrylic fiber, emission of SO <sub>2</sub>                        |
| Armstrong Cork Co.                       | Pensacola,<br>Escambia County | Emission of particulates  |
| Basic Magnesia                           | Port St. Joe,<br>Gulf County  | MgO recovery from sea water, SO <sub>2</sub><br>and particulates  |
| Cantonment                               | Escambia County,              | Industrial emissions  |
| Fleming Lumber Co.                       | Crestview,<br>Okaloosa County | Lumber mill, emission of<br>particulates                          |
| Glidden-Durkee Organic<br>Chemical Corp. | Port St. Joe,<br>Gulf County  | Chemical processes, emission<br>of particulates                   |
| Gulf Power Corp.                         | Pensacola,<br>Escambia County | Electric utility, emission of<br>SO <sub>2</sub> and particulates |
| Humble Oil & Refinery Co.                | Jay,<br>Santa Rosa County     | Oil refining emission of SO <sub>2</sub>                          |
| International Paper Co.                  | Panama City,<br>Bay County    | Pulp & paper, emission of<br>SO <sub>2</sub> and particulates     |
| Monsanto Co.                             | Gonzales,<br>Escambia County  | Textiles, emission of particulates,<br>nitric acids, hydrocarbons |
| Pensacola                                | Escambia County               | Automotive exhausts<br>(NO <sub>x</sub> , CO <sub>2</sub> , etc.) |

Continued

Table EIR 14 . Concluded .

| Site  | Location                                  | Description  |
|---|---|--|
| Reichold Chemicals<br>Newport Division<br>St. Joe Paper Co. | Escambia County                           | Emission of hydrocarbons   |
| St. Regis Paper Co.   | Port St. Joe,<br>Gulf County<br>Pensacola | Pulp, paper mill, emission of<br>SO <sub>2</sub> and particulates<br>Pulp, paper mill, emission of<br>particulates |
| Tenneco Chemical, Inc .                                     | Pensacola,<br>Escambia County             | Naval stores, emission of particulates   |

Table EIR 15. Florida class II waters presently closed to shellfishing (U.S. Army Corps of Engineers 1978).

| Site               | Location          | Description  |
|--------------------|-------------------|--|
| Blackwater Bay     | Santa Rosa County | Lower portion, Robinson Point S. to Escribano Point, closed to shellfishing                    |
| Choctawhatchee Bay | Walton County     | Closed to shellfishing   |
| East Bay           | Bay County        | W. portion of Bay closed to shellfishing, also small portion of E. side is closed              |
| East Bay River     | Santa Rosa County | W. portion of river to E. Bay entrance, closed to shellfishing                                 |
| Escambia Bay       | Santa Rosa County | Area from Louisville and Nashville Railroad Bridge S. to Emanuel Point, closed to shellfishing |
| North Bay          | Bay County        | Closed to shellfishing   |
| Ochlockonee Bay    | Franklin County   | Closed to shellfishing   |
| Pensacola Bay      | Santa Rosa County | N. portion of Pensacola Bay, closed to shellfishing  |
| Rocky Bayou        | Okaloosa County   | Closed to shellfishing   |
| St. Joseph Bay     | Gulf County       | Closed to shellfishing   |
| West Bay           | Bay County        | S. portion closed as it is a mariculture area  |



Table EIR 16. Identified water quality problems (U.S. Army Corps of Engineers 1978).

| Site                                | Location   | Description  |
|-------------------------------------|--|--|
| Alaqua Bayou                        | Choctawhatchee Bay,<br>Walton County                 | Agricultural runoff, low D.O. <sup>a</sup> high<br>nutrient and coliform levels              |
| Apalachicola Bay<br>Bayou Chico     | Franklin County<br>Pensacola Bay,<br>Escambia County | Low D.O., high nitrate and coliform levels<br>Urban and industrial wastes                    |
| Bayou Grande                        | Pensacola Bay,<br>Escambia County                    | Urban runoff   |
| Bayou Marcus Creek                  | Perdido Bay,<br>Escambia County                      | Urban runoff   |
| Bayou Texar and<br>Carpenters Creek | Pensacola Bay,<br>Escambia County                    | Urban runoff   |
| 269<br>Blackwater River             | Blackwater Bay,<br>Santa Rosa County                 | City of Milton to Blackwater Bay,<br>municipal sewage  |
| Boggy Bayou                         | Choctawhatchee Bay,<br>Okaloosa County               | Low D.O., agricultural runoff,<br>high nitrate & coliform levels                             |
| Chipola River                       | Calhoun and Gulf counties                            | Chipola River to Dead Lake, high nitrate<br>levels, sewage waste discharges                  |
| Cinco Bayou                         | Choctawhatchee Bay,<br>Okaloosa County               | Low D.O., agricultural runoff, high<br>nutrient and coliform levels                          |
| East Bay                            | Panama City,<br>Bay County                           | Urban runoff, low D.O., high nitrogen,<br>nitrate, and coliform levels                       |
| East Bay                            | Navarre,<br>Santa Rosa County                        | Sewerage effluent, urban runoff  |
| Eleven Mile Creek                   | Perdido Bay,<br>Escambia County                      | Cantonment to Perdido Bay, discharges of<br>treated bleached/unbleached Kraft mill<br>wastes |
| Escambia River                      | Western border,<br>Santa Rosa County                 | Urban and industrial runoff  |

Continued

Table EIR 16. Concluded.

| Site                  | Location                            | Description   |
|-----------------------|-------------------------------------|---|
| Escambia Bay          | Escambia County                     | Urban, industrial effluent, carbonaceous, nitrogenous and phosphorus wastes |
| Fort Walton Beach     | Okaloosa County                     | Saltwater intrusion due to aquifer drawdowns                                |
| Jose Bayou            | Choctawhatchee Bay, Okaloosa County | Low D.O., agricultural runoff, high nutrient and coliform levels            |
| LaGrange Bayou        | Choctawhatchee Bay, Okaloosa County | Low D.O., high nitrogen, ammonia, coliform levels, agricultural runoff      |
| Mullatto Bayou        | Escambia Bay, Santa Rosa County     | Urban, industrial effluent, forest drainage                                 |
| North Bay             | Panama City, Bay County             | Low D.O., high nitrate, nitrogen and coliform levels, urban runoff          |
| Pensacola Bay         | Pensacola, Escambia County          | Urban runoff, high nitrate, ammonia and coliform levels                     |
| Perdido River and Bay | Western border, Escambia County     | High coliform levels, agricultural runoff                                   |
| St. Andrew Bay        | Panama City, Bay County             | High nitrogen, nitrate, coliform levels, low D.O., urban runoff             |
| St. Joseph Bay        | City of Port St. Joe, Gulf County   | High coliform levels, indirect urban discharges                             |
| Toms Bayou            | Choctawhatchee Bay, Okaloosa County | Low D.O., high nutrient, coliform levels, agricultural runoff               |
| Trout Bayou           | Escambia Bay, Santa Rosa County     | Urban, industrial effluent, forest drainage                                 |
| West Bay              | Panama City, Bay County             | High nitrogen, nitrate, coliform levels, low D.O., urban runoff             |

<sup>a</sup> Dissolved Oxygen.

Table EIR 17. Known case of groundwater contamination (Florida Department of Environmental Regulation 1980b).

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Case name: Fertilizer plant contamination of the sand-and-gravel aquifer, Escambia County.

Case description: In Pensacola, FL, concentrated acid wastes from a fertilizer plant were disposed of in unlined pits from about 1889 to 1957. The area is underlain by a sand and gravel aquifer, with an approximate hydraulic conductivity of 17.4 m/day (57 ft/day), to a depth of about three hundred meters (a thousand ft). In the area, the sand and gravel aquifer is extensively developed for industrial, municipal and domestic water supply. Ground water development for public supply was formally centered to the SE. of the plant site. Generally, the water table slopes to the east. The contaminant plume migrated to the E. and S. General chemical characteristics of the waste were low pH and high dissolved solids, hardness, sulfate, flouride, calcium and magnesium. A municipal well located 1.8 km (1.1 mi) E. of the disposal pits was abandoned in about 1958. The industry has since abandoned use of the pits and now uses deep disposal wells. However, field determinations of water samples collected in 1975 indicate that the ground water is still contaminated.

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Table EIR 18. Summary of oil spill investigations from 1 January 1975 to 31 August 1980 by the Florida Department of Natural Resources (Florida Department of Natural Resources 1980).

| Classification<br>of spill | Year |      |      |      |      |      |
|----------------------------|------|------|------|------|------|------|
|                            | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 |
| Major <sup>a</sup>         | 1    | 4    | 6    | 2    | 9    | 8    |
| Moderate <sup>b</sup>      | 15   | 17   | 5    | 4    | 4    | 9    |
| Minor <sup>c</sup>         | 81   | 86   | 79   | 125  | 147  | 189  |

<sup>a</sup> Discharge of pollutant of more than 10,000 gal into inland waters, or more than 100,000 gal into coastal waters, or a discharge of any quantity that substantially threatens the public health or welfare or generates wide public interest.

<sup>b</sup> Discharge of pollutant of 1,000 gal to 10,000 gal into inland waters, or 10,000 gal to 100,000 in coastal waters, or a discharge of any volume that poses a threat to the public health or welfare.

<sup>c</sup> Discharge of pollutant of less than 1,000 gal into inland waters, or less than 10,000 in coastal waters.

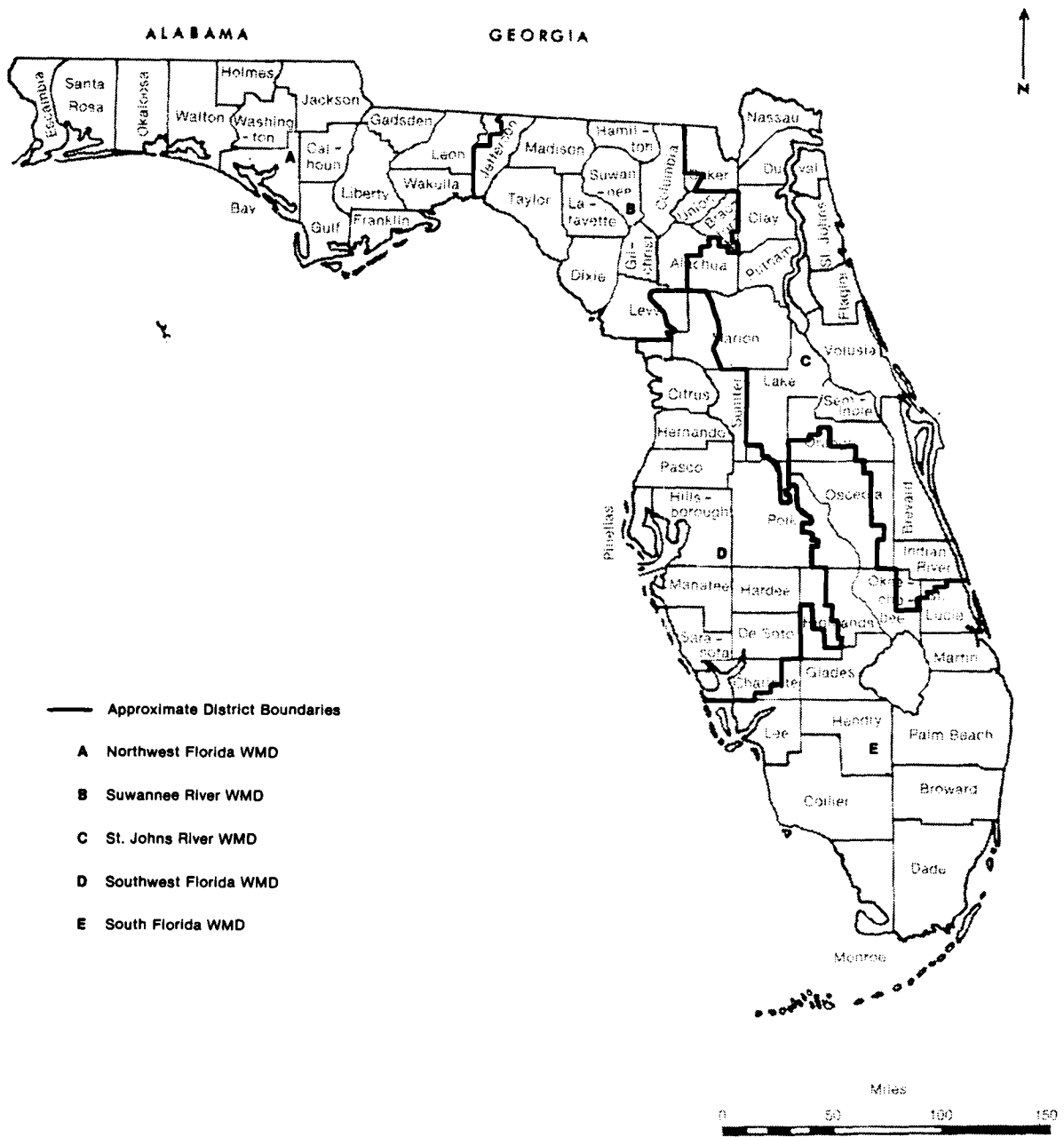


Figure 23. State water management districts (Florida Power and Light Co. 1979).

Table EIR 19. Geographic areas considered by the Florida Department of Environmental Regulation as having the greatest potential for agricultural non-point water quality problems<sup>a</sup> (Florida Department of Environmental Regulation 1979a).

| County     | Agricultural activities |
|------------|-------------------------|
| Bay        | Row crops               |
| Escambia   | Row crops               |
| Franklin   | Row crops               |
| Gulf       | Row crops               |
| Okaloosa   | Row crops               |
| Santa Rosa | Row crops               |
| Walton     | Row crops               |

<sup>a</sup> Potential problem determination is based upon these variables: 1) fertilizer loading density, 2) pesticide loading density, 3) animal unit density, 4) amount of sediment delivered to streams.

Table EIR 20. Florida surface water dischargers with current wasteload allocations (WLA's) (Florida Department of Environmental Regulation 1979b).

| County                     | Discharger                      | Receiving water    |
|----------------------------|---------------------------------|--------------------|
| Bay                        | Captain Andersons Restaurant    | Grand Lagoon       |
|                            | GYMZ Corp.                      | Callaway Bayou     |
|                            | Highland Park School            | Goose Bayou        |
|                            | KOA Panama City                 | Alligator Bayou    |
|                            | Molemors TP <sup>a</sup>        | Martins Bayou      |
|                            | Morris Manor SD <sup>b</sup>    | Martins Bayou      |
|                            | Noah Legears MHP <sup>c</sup>   | Ditch to canal     |
|                            | Parker Elementary School        | Parker Bayou       |
|                            | Parkway Apartments              | Pitts Bayou        |
|                            | Pines Mobile Homes              | Parker Creek       |
|                            | Prows TP                        | Watson Bayou       |
|                            | St. Andrews Estates             | Robi Bayou N. Bay  |
|                            | Venture Out In America          | Grand Lagoon       |
|                            | Woodlawn SD                     | North Bay          |
| Escambia                   | Avondale STP <sup>d</sup>       | Bayou Marcus       |
|                            | Avondale STP                    | Bayou Marcus Creek |
|                            | City of Cantonment              | Eleven Mile Creek  |
|                            | City of Cantonment              | Jacks Branch       |
|                            | Ernest Ward High School         | Pine Barren Creek  |
|                            | Escambia County Road Camp       | Eleven Mile Creek  |
|                            | Lakeview MHP                    | Eight Mile Creek   |
|                            | Lincoln Park SD                 | Eleven Mile Creek  |
|                            | Montclair STP                   | Bayou Marcus       |
|                            | Prison Camp SR-297A             | Eleven Mile Creek  |
|                            | St. Regis Paper Co.             | Eleven Mile Creek  |
|                            | Timberlake MHP                  | Bayou Marcus Creek |
|                            | Bayou Grande Villa STP          | Bayou Grande       |
|                            | City of Warrington              | Bayou Chico        |
|                            | City of Pensacola Main St. STP  | Pensacola Bay      |
|                            | Fountain Blue MHP               | Bayou Chico        |
|                            | Moreno Courts                   | Bayou Chico        |
|                            | Moreno Courts                   | Jones Creek Swamp  |
|                            | Pen Haven STP                   | Bayou Chico        |
|                            | Santa Rosa Beach Administration | Santa Rosa Sound   |
|                            | Santa Rosa Island Authority     | Santa Rosa Sound   |
|                            | Warrington                      | Jones Creek Swamp  |
|                            | Pensacola NE. STP               | Escambia Bay       |
|                            | Reynolds Shopping Center        | Eight Mile Creek   |
|                            | Bluff Springs Campground        | Canoe Creek        |
|                            | Boise Cascade                   | Salters Creek      |
|                            | City of Sentury                 | Escambia River     |
|                            | Monsanto Corp.                  | Escambia River     |
| University of West Florida | Thompson Bayou                  |                    |

Continued

Table EIR 20. Concluded.

| County     | Discharger                             | Receiving water  |
|------------|--|------------------|
| Escambia   | University of West Florida             | Escambia River   |
| Gulf       | City of Wewahitchka STP                | Chipola River    |
| Okaloosa   | Okaloosa County Airport                | Moccasin Branch  |
| Santa Rosa | Santa Rosa County Beach Administration | Santa Rosa Sound |
|            | Air Products and Chemical Corp.        | Pond Creek       |
|            | American Cyanamide                     | Pond Creek       |
|            | Santa Villa SD                         | Pond Creek       |
|            | Town of Jay                            | Pray Mill Creek  |
|            | City of Milton                         | Blackwater River |
|            | City of Gulf Breeze STP                | Santa Rosa Sound |
|            | NAS Whiting Field                      | Clear Creek      |
| Walton     | Freeport High School                   | Unnamed creek    |
|            | Showell Farms Inc.                     | Carpenters       |

- <sup>a</sup> Trailer park.
- <sup>b</sup> Subdivision.
- <sup>c</sup> Mobile home park.
- <sup>d</sup> Sewage treatment plant.





Figure 24. Districts and subdistricts of the Florida Department of Environmental Regulation (Florida Power and Light Co. 1979).

Table EIR 21. PNS<sup>a</sup> water quality violations from 1974 to 1978 (Florida Department of Environmental Regulation 1979c).

| County          | Name                 | DO <sup>b</sup> |                 |    | PH |    | TCOLI <sup>c</sup> |    | FCOLI <sup>d</sup> |  |
|-----------------|----------------------|-----------------|-----------------|----|----|----|--------------------|----|--------------------|--|
|                 |                      | N <sup>e</sup>  | NV <sup>f</sup> | N  | NV | N  | NV                 | N  | NV                 |  |
| Bay<br>Escambia | St. Andrews Bay      | 31              | 2               | 50 | 3  | 32 | 2                  | 9  | 0                  |  |
|                 | Perdido Bay          | 45              | 0               | 55 | 31 | 49 | 4                  | 22 | 1                  |  |
|                 | Perdido River        | 41              | 1               | 59 | 1  | 37 | 0                  | 13 | 1                  |  |
|                 | Escambia Bay         | 55              | 0               | 66 | 3  | 55 | 5                  | 20 | 9                  |  |
|                 | Escambia River       | 42              | 2               | 61 | 3  | 43 | 0                  | 18 | 0                  |  |
| Gulf            | Apalachicola River   | 31              | 0               | 48 | 1  | 30 | 1                  | 12 | 0                  |  |
|                 | St. Josephs Bay      | 3               | 0               | 8  | 1  | 4  | 0                  | 0  | 0                  |  |
| Okaloosa        | Choctawhatchee Bay   | 35              | 1               | 51 | 1  | 35 | 1                  | 12 | 0                  |  |
|                 | Blackwater River     | 48              | 0               | 65 | 1  | 43 | 0                  | 19 | 1                  |  |
| Santa Rosa      | Escambia River       | 28              | 0               | 35 | 4  | 25 | 0                  | 2  | 0                  |  |
|                 | East Bay             | 46              | 0               | 56 | 39 | 44 | 5                  | 19 | 2                  |  |
| Walton          | Choctawhatchee River | 30              | 0               | 46 | 0  | 31 | 3                  | 11 | 1                  |  |

<sup>a</sup> Permanent Network Stations, established in 1973, for the purpose of monitoring water quality in Florida's lakes, streams and estuaries.

<sup>b</sup> Dissolved oxygen.

<sup>c</sup> Total coliform.

<sup>d</sup> Fecal coliform.

<sup>e</sup> Number of samples.

<sup>f</sup> Number of violations.

Table EIR 22. Water used for public supplies in Water Resources Council (WRC) subregions in 1970 (Pride 1973).

| WRC Subregion      | Water withdrawn Mgal/d <sup>a</sup> |                 |           |            |
|--------------------|-------------------------------------|-----------------|-----------|------------|
|                    | GW <sup>b</sup>                     | SW <sup>c</sup> | All water | Per capita |
| WRC Subregion 0312 |                                     |                 |           |            |
| Franklin           | 0.50                                | 0.00            | 0.50      | 125.00     |
| Subregion          | 15.30                               | 1.20            | 16.50     | 142.00     |
| WRC Subregion 0313 |                                     |                 |           |            |
| Gulf               | 0.10                                | 0.40            | 0.50      | 83.00      |
| Subregion          | 1.90                                | 0.40            | 2.30      | 95.00      |
| WRC Subregion 0314 |                                     |                 |           |            |
| Bay                | 0.70                                | 37.40           | 38.10     | 982.00     |
| Escambia           | 20.30                               | 0.00            | 20.30     | 128.00     |
| Okaloosa           | 7.90                                | 0.00            | 7.90      | 130.00     |
| Santa Rosa         | 2.40                                | 0.00            | 2.40      | 162.00     |
| Walton             | 0.70                                | 0.00            | 0.70      | 76.00      |
| Subregion          | 32.70                               | 37.40           | 70.10     | 243.00     |
| Florida            | 758.80                              | 124.70          | 883.50    | 163.00     |

Continued

Table EIR 22. Concluded.

| WRC Subregion      | Water delivered (Mgal/d)  |               |          |                               | Consumed |
|--------------------|---------------------------|---------------|----------|-------------------------------|----------|
|                    | Industrial and commercial |               |          | Domestic<br>use and<br>losses |          |
|                    | A/C <sup>d</sup>          | Except<br>A/C | All uses |                               |          |
| WRC Subregion 0312 |                           |               |          |                               |          |
| Franklin           | 0.00                      | 0.10          | 0.10     | 0.40                          | 0.10     |
| Subregion          | 1.20                      | 5.20          | 6.40     | 10.10                         | 5.40     |
| WRC Subregion 0313 |                           |               |          |                               |          |
| Gulf               | 0.02                      | 0.03          | 0.05     | 0.40                          | 0.20     |
| Subregion          | 0.02                      | 0.23          | 0.30     | 2.00                          | 0.70     |
| WRC Subregion 0314 |                           |               |          |                               |          |
| Bay                | 0.60                      | 32.30         | 32.90    | 5.20                          | 4.80     |
| Escambia           | 0.90                      | 4.70          | 5.60     | 14.70                         | 8.10     |
| Okaloosa           | 0.10                      | 2.30          | 2.40     | 5.50                          | 2.00     |
| Santa Rosa         | 0.00                      | 0.60          | 0.60     | 1.80                          | 0.60     |
| Walton             | 0.00                      | 0.10          | 0.10     | 0.60                          | 0.30     |
| Subregion          | 1.60                      | 40.00         | 41.60    | 28.50                         | 16.00    |
| Florida            | 46.20                     | 120.00        | 166.20   | 717.30                        | 234.80   |

- <sup>a</sup> Million gal per day.
- <sup>b</sup> Ground water.
- <sup>c</sup> Surface water.
- <sup>d</sup> Air conditioning.

Table EIR 23. Water used for irrigation in Water Resources Council (WRC) subregions in 1970 (Pride 1973).

| WRC Subregion      | Water withdrawn (Mgal/d) <sup>a</sup> |                 |       |          |        | Conveyance loss | Consumptive use |
|--------------------|---------------------------------------|-----------------|-------|----------|--------|-----------------|-----------------|
|                    | SW <sup>b</sup>                       | GW <sup>c</sup> | Other | All      |        |                 |                 |
| WRC Subregion 0312 |                                       |                 |       |          |        |                 |                 |
| Franklin           | 0.00                                  | 0.00            | 0.00  | 0.00     | 0.00   | 0.00            | 0.00            |
| Subregion          | 2.15                                  | 1.04            | 0.00  | 3.20     | 0.00   | 0.00            | 2.50            |
| WRC Subregion 0313 |                                       |                 |       |          |        |                 |                 |
| Gulf               | 0.00                                  | 0.00            | 0.00  | 0.00     | 0.00   | 0.00            | 0.00            |
| Subregion          | 0.05                                  | 0.83            | 0.00  | 0.90     | 0.00   | 0.00            | 0.60            |
| WRC Subregion 0314 |                                       |                 |       |          |        |                 |                 |
| Bay                | 0.00                                  | 0.30            | 0.00  | 0.30     | 0.00   | 0.00            | 0.20            |
| Escambia           | 0.00                                  | 0.10            | 0.00  | 0.10     | 0.00   | 0.00            | 0.10            |
| Okaloosa           | 0.00                                  | 0.00            | 0.00  | 0.00     | 0.00   | 0.00            | 0.00            |
| Santa Rosa         | 0.00                                  | 0.20            | 0.00  | 0.20     | 0.00   | 0.00            | 0.10            |
| Walton             | 0.00                                  | 10.10           | 0.00  | 10.10    | 0.00   | 0.00            | 7.60            |
| Subregion          | 0.00                                  | 10.76           | 0.00  | 10.76    | 0.00   | 0.00            | 8.00            |
| Florida            | 898.43                                | 1,172.24        | 28.11 | 2,070.66 | 127.10 |                 | 1,270.40        |

<sup>a</sup> Million gal per day.

<sup>b</sup> Surface water.

<sup>c</sup> Ground water.

Table EIR 24. Self-supplied water for industrial use in Water Resources Council (WRC) subregions in 1970 (Pride 1973).

| WRC Subregion      | Water withdrawn (Mgal/d) <sup>a</sup> |        |               |        |           |        | Water consumed fresh |
|--------------------|---------------------------------------|--------|---------------|--------|-----------|--------|----------------------|
|                    | Ground water                          |        | Surface water |        | All water |        |                      |
|                    | Fresh                                 | Saline | Fresh         | Saline | Fresh     | Saline |                      |
| WRC Subregion 0312 |                                       |        |               |        |           |        |                      |
| Franklin           | 0.00                                  | 0.00   | 0.00          | 0.00   | 0.00      | 0.00   | 0.00                 |
| Subregion          | 83.40                                 | 0.00   | 3.00          | 0.00   | 86.40     | 0.00   | 7.60                 |
| WRC Subregion 0313 |                                       |        |               |        |           |        |                      |
| Gulf               | 19.00                                 | 0.00   | 36.00         | 15.80  | 55.00     | 15.80  | 9.10                 |
| Subregion          | 20.20                                 | 0.00   | 36.00         | 15.80  | 56.20     | 15.80  | 9.30                 |
| WRC Subregion 0314 |                                       |        |               |        |           |        |                      |
| Bay                | 2.00                                  | 0.00   | 0.05          | 0.00   | 2.05      | 0.00   | 0.50                 |
| Escambia           | 47.80                                 | 0.10   | 42.90         | 0.00   | 90.70     | 0.10   | 27.10                |
| Okaloosa           | 4.70                                  | 0.00   | 0.00          | 0.00   | 4.70      | 0.00   | 1.60                 |
| Santa Rosa         | 10.30                                 | 0.00   | 0.00          | 0.00   | 10.30     | 0.00   | 5.20                 |
| Walton             | 1.20                                  | 0.00   | 0.00          | 0.00   | 1.20      | 0.00   | 0.20                 |
| Subregion          | 66.00                                 | 0.10   | 42.95         | 0.00   | 108.95    | 0.10   | 34.60                |
| Florida            | 736.20                                | 86.90  | 190.60        | 45.60  | 926.80    | 132.50 | 163.10               |

Continued

Table EIR 24. Concluded.

| WRC Subregion      | Fresh water use by major classification (Mgal/d) |                         |                   |                 |                              | Other  |
|--------------------|--|-------------------------|-------------------|-----------------|------------------------------|--------|
|                    | Phosphate mining                                 | Pulp & paper processing | Citrus processing | Limerock mining | Chemical products processing |        |
| WRC Subregion 0312 |  |                         |                   |                 |                              |        |
| Franklin           | 0.00   | 0.00                    | 0.00              | 0.00            | 0.00                         | 0.00   |
| Subregion          | 0.00   | 53.70                   | 0.00              | 0.00            | 0.00                         | 32.70  |
| WRC Subregion 0313 |  |                         |                   |                 |                              |        |
| Gulf               | 0.00   | 55.00                   | 0.00              | 0.00            | 0.00                         | 0.00   |
| Subregion          | 0.00   | 55.00                   | 0.00              | 0.00            | 0.00                         | 1.20   |
| WRC Subregion 0314 |  |                         |                   |                 |                              |        |
| Bay                | 0.00   | 2.00                    | 0.00              | 0.00            | 0.00                         | 0.05   |
| Escambia           | 0.00   | 26.20                   | 0.00              | 0.00            | 54.30                        | 10.20  |
| Okaloosa           | 0.00   | 0.00                    | 0.00              | 0.00            | 0.00                         | 4.70   |
| Santa Rosa         | 0.00   | 0.00                    | 0.00              | 0.00            | 9.50                         | 0.80   |
| Walton             | 0.00   | 0.00                    | 0.00              | 0.00            | 0.00                         | 1.20   |
| Subregion          | 0.00   | 28.20                   | 0.00              | 0.00            | 63.80                        | 16.15  |
| Florida            | 318.30   | 237.40                  | 86.50             | 28.90           | 97.10                        | 158.60 |

<sup>a</sup> Million gal per day.

Table EIR 25. Water used for thermoelectric power in Water Resources Council (WRC) subregions in 1970 (Pride 1973).

| WRC Subregion      | Cooling water (Mgal/d) <sup>a</sup> |         |              |       |               |
|--------------------|-------------------------------------|---------|--------------|-------|---------------|
|                    | Self-supplied                       |         |              |       | Public supply |
|                    | Fresh                               | Saline  | Ground water |       |               |
| Fresh              |                                     |         | Saline       |       |               |
| WRC Subregion 0312 |                                     |         |              |       |               |
| Franklin           | 0.00                                | 0.00    | 0.00         | 0.00  | 0.00          |
| Subregion          | 160.00                              | 0.00    | 0.00         | 0.00  | 0.00          |
| WRC Subregion 0313 |                                     |         |              |       |               |
| Gulf               | 0.00                                | 0.00    | 0.00         | 0.00  | 0.00          |
| Subregion          | 144.00                              | 0.00    | 1.40         | 0.00  | 0.00          |
| WRC Subregion 0314 |                                     |         |              |       |               |
| Bay                | 0.00                                | 274.00  | 0.10         | 0.00  | 0.00          |
| Escambia           | 205.00                              | 15.00   | 0.80         | 0.00  | 0.00          |
| Okaloosa           | 0.00                                | 0.00    | 0.00         | 0.00  | 0.00          |
| Santa Rosa         | 0.00                                | 0.00    | 0.00         | 0.00  | 0.00          |
| Walton             | 0.00                                | 0.00    | 0.00         | 0.00  | 0.00          |
| Subregion          | 205.00                              | 289.00  | 0.90         | 0.00  | 0.00          |
| Florida            | 1675.00                             | 9340.00 | 10.90        | 50.10 | 2.30          |

Continued



Table EIR 25. Concluded.

| WRC Subregion      | Other water (Mgal/d) |              |               |                |        |
|--------------------|----------------------|--------------|---------------|----------------|--------|
|                    | Self-supplied        |              | Public supply | Water consumed |        |
|                    | Surface fresh        | Ground fresh |               | Fresh          | Saline |
| WRC Subregion 0312 |                      |              |               |                |        |
| Franklin           | 0.00                 | 0.00         | 0.00          | 0.00           | 0.00   |
| Subregion          | 0.00                 | 0.30         | 0.00          | 1.40           | 0.00   |
| WRC Subregion 0313 |                      |              |               |                |        |
| Gulf               | 0.00                 | 0.00         | 0.00          | 0.00           | 0.00   |
| Subregion          | 0.00                 | 0.00         | 0.00          | 0.90           | 0.00   |
| WRC Subregion 0314 |                      |              |               |                |        |
| Bay                | 0.00                 | 0.00         | 0.00          | 0.30           | 3.50   |
| Escambia           | 0.00                 | 0.00         | 0.00          | 6.40           | 0.00   |
| Okaloosa           | 0.00                 | 0.00         | 0.00          | 0.00           | 0.00   |
| Santa Rosa         | 0.00                 | 0.00         | 0.00          | 0.00           | 0.00   |
| Walton             | 0.00                 | 0.00         | 0.00          | 0.00           | 0.00   |
| Subregion          | 0.00                 | 0.00         | 0.00          | 6.70           | 3.50   |
| Florida            | 0.00                 | 1.00         | 2.50          | 19.70          | 86.00  |

<sup>a</sup> Million gal per day.

Table EIR 26. Water used for public supplies in 1975 (Leach 1978).

| County     | Water withdrawn (Mgal/d) <sup>a</sup> |                 |         |            |
|------------|---------------------------------------|-----------------|---------|------------|
|            | GW <sup>b</sup>                       | SW <sup>c</sup> | Total   | Per capita |
| Bay        | 1.95                                  | 32.59           | 34.54   | 418.00     |
| Escambia   | 27.46                                 | 0.34            | 27.80   | 145.00     |
| Franklin   | 0.99                                  | 0.00            | 0.99    | 148.00     |
| Gulf       | 0.11                                  | 0.64            | 0.75    | 114.00     |
| Okaloosa   | 9.31                                  | 0.00            | 9.31    | 117.00     |
| Santa Rosa | 3.40                                  | 0.00            | 3.40    | 90.00      |
| Walton     | 1.08                                  | 0.00            | 1.08    | 102.00     |
| Region     | 44.30                                 | 33.57           | 77.87   | N.D.       |
| Florida    | 982.83                                | 162.98          | 1145.81 | 168.00     |

| County     | Water delivered by uses (Mgal/d) |             |          |            |                  | Consumed |
|------------|----------------------------------|-------------|----------|------------|------------------|----------|
|            | Public supply                    | Agriculture | Industry | Commercial | A/C <sup>d</sup> |          |
| Bay        | 7.84                             | 0.00        | 25.56    | 1.14       | 0.00             | 12.49    |
| Escambia   | 19.43                            | 0.06        | 0.00     | 8.31       | 0.00             | 5.51     |
| Franklin   | 0.72                             | 0.00        | 0.06     | 0.22       | 0.00             | 0.69     |
| Gulf       | 0.47                             | 0.00        | 0.26     | 0.01       | 0.00             | 0.15     |
| Okaloosa   | 8.53                             | 0.12        | 0.00     | 0.66       | 0.00             | 4.16     |
| Santa Rosa | 2.99                             | 0.06        | 0.00     | 0.35       | 0.00             | 1.04     |
| Walton     | 0.86                             | 0.00        | 0.02     | 0.18       | 0.02             | 0.52     |
| Region     | 40.84                            | 0.24        | 25.90    | 10.87      | 0.02             | 24.56    |
| Florida    | 923.58                           | 24.71       | 80.90    | 83.62      | 33.00            | 559.97   |

- <sup>a</sup> Million gal per day.  
<sup>b</sup> Ground water.  
<sup>c</sup> Surface water.  
<sup>d</sup> Air conditioning.

Table EIR 27. Rural water use in 1975 (Leach 1978).

| County     | Domestic use (Mgal/d) <sup>a</sup> |                 |        |          | Livestock use (Mgal/d) |       |       |          |
|------------|------------------------------------|-----------------|--------|----------|------------------------|-------|-------|----------|
|            | Withdrawn                          |                 |        | Consumed | Withdrawn              |       |       | Consumed |
|            | SW <sup>b</sup>                    | GW <sup>c</sup> | ATT    |          | SW                     | GW    | ATT   |          |
| Bay        | 0.00                               | 0.89            | 0.89   | 0.18     | 0.16                   | 0.07  | 0.23  | 0.23     |
| Escambia   | 0.00                               | 3.28            | 3.28   | 0.60     | 0.17                   | 3.02  | 3.19  | 3.19     |
| Franklin   | 0.00                               | 0.12            | 0.12   | 0.03     | 0.01                   | 0.00  | 0.01  | 0.01     |
| Gulf       | 0.00                               | 0.43            | 0.43   | 0.08     | 0.08                   | 0.04  | 0.12  | 0.12     |
| Okaloosa   | 0.00                               | 2.21            | 2.21   | 0.44     | 0.11                   | 0.07  | 0.18  | 0.18     |
| Santa Rosa | 0.00                               | 1.05            | 1.05   | 0.21     | 0.17                   | 0.07  | 0.24  | 0.24     |
| Walton     | 0.74                               | 0.00            | 0.74   | 0.59     | 0.14                   | 0.08  | 0.22  | 0.22     |
| Region     | 0.74                               | 7.98            | 8.72   | 2.13     | 0.84                   | 3.35  | 4.19  | 4.19     |
| Florida    | 2.05                               | 200.93          | 202.98 | 50.33    | 12.15                  | 50.87 | 63.02 | 62.57    |

| County     | All uses (Mgal/d) |        |        |          |
|------------|-------------------|--------|--------|----------|
|            | Withdrawn         |        |        | Consumed |
|            | SW                | GW     | ATT    |          |
| Bay        | 0.16              | 0.96   | 1.12   | 0.41     |
| Escambia   | 0.17              | 6.30   | 6.47   | 3.79     |
| Franklin   | 0.01              | 0.12   | 0.13   | 0.04     |
| Gulf       | 0.08              | 0.47   | 0.55   | 0.20     |
| Okaloosa   | 0.11              | 2.28   | 2.39   | 0.62     |
| Santa Rosa | 0.17              | 1.12   | 1.29   | 0.45     |
| Walton     | 0.88              | 0.08   | 0.96   | 0.81     |
| Region     | 0.81              | 13.53  | 14.34  | 6.13     |
| Florida    | 14.20             | 251.80 | 266.00 | 112.90   |

- <sup>a</sup> Million gal per day.  
<sup>b</sup> Surface water.  
<sup>c</sup> Ground water.

Table EIR 28. Water used for irrigation in 1975 (Leach 1978).

| County     | Total water withdrawn (Mgal/d) <sup>a</sup> |                 |          |                 |                 |
|------------|---|-----------------|----------|-----------------|-----------------|
|            | SW <sup>b</sup>                             | GW <sup>c</sup> | All      | Conveyance loss | Consumptive use |
| Bay        | 0.00  | 0.00            | 0.00     | 0.00            | 0.00            |
| Escambia   | 0.27  | 0.63            | 0.90     | 0.00            | 0.18            |
| Franklin   | 0.00  | 0.00            | 0.00     | 0.00            | 0.00            |
| Gulf       | 0.00  | 0.22            | 0.22     | 0.00            | 0.09            |
| Okaloosa   | 0.34  | 0.38            | 0.72     | 0.00            | 0.14            |
| Santa Rosa | 0.00  | 0.33            | 0.33     | 0.00            | 0.07            |
| Walton     | 0.19  | 0.59            | 0.78     | 0.00            | 0.13            |
| Region     | 0.46  | 2.29            | 2.75     | 0.00            | 0.83            |
| Florida    | 1,628.52                                    | 1,238.96        | 1,867.48 | 218.11          | 1,331.86        |

<sup>a</sup> Million gal per day.

<sup>b</sup> Surface water.

<sup>c</sup> Ground water.

Table EIR 29. Self-supplied water for industrial use in 1975 (Leach 1978).

| County     | Water withdrawn (Mgal/d) <sup>a</sup> |        |               |        |           |        | Water consumed |
|------------|---------------------------------------|--------|---------------|--------|-----------|--------|----------------|
|            | Ground water                          |        | Surface water |        | All water |        |                |
|            | Fresh                                 | Saline | Fresh         | Saline | Fresh     | Saline |                |
| Bay        | 1.35                                  | 0.00   | 0.00          | 0.00   | 1.35      | 0.00   | 0.33           |
| Escambia   | 44.75                                 | 2.80   | 31.70         | 0.24   | 76.45     | 3.04   | 18.02          |
| Franklin   | 0.01                                  | 0.00   | 0.00          | 0.00   | 0.01      | 0.00   | 0.01           |
| Gulf       | 0.52                                  | 0.00   | 33.20         | 13.00  | 33.72     | 13.00  | 18.35          |
| Okaloosa   | 6.05                                  | 0.00   | 0.00          | 0.05   | 6.05      | 0.00   | 1.23           |
| Santa Rosa | 17.67                                 | 0.00   | 0.00          | 0.00   | 17.67     | 0.00   | 4.83           |
| Walton     | 0.41                                  | 0.00   | 0.00          | 0.00   | 0.41      | 0.00   | 0.27           |
| Region     | 70.76                                 | 2.80   | 63.90         | 13.29  | 118.40    | 16.04  | 38.48          |
| Florida    | 778.92                                | 47.80  | 160.70        | 15.24  | 939.62    | 63.04  | 262.91         |

| County     | Water use by major classification (Mgal/d) |                |                   |                  |
|------------|--|----------------|-------------------|------------------|
|            | Limerock mining                            | Pulp and paper | Chemical products | Phosphate mining |
| Bay        | 0.00                                       | 0.33           | 0.50              | 0.00             |
| Escambia   | 0.00                                       | 24.00          | 45.78             | 0.00             |
| Franklin   | 0.00                                       | 0.00           | 0.00              | 0.00             |
| Gulf       | 0.00                                       | 32.20          | 14.50             | 0.00             |
| Okaloosa   | 0.00                                       | 0.00           | 0.00              | 0.00             |
| Santa Rosa | 0.00                                       | 0.00           | 8.20              | 0.00             |
| Walton     | 0.00                                       | 0.00           | 0.00              | 0.00             |
| Region     | 0.00                                       | 56.53          | 68.98             | 0.00             |
| Florida    | 87.97                                      | 225.31         | 100.05            | 270.33           |

Continued

Table EIR 29. Concluded.

| County     | Water use by major classification (Mgal/d) |                 |       |        |
|------------|--|-----------------|-------|--------|
|            | Citrus processing                          | Food processing | A/Cb  | Other  |
| Bay        | 0.00                                       | 0.21            | 0.00  | 0.31   |
| Escambia   | 0.00                                       | 0.00            | 0.24  | 9.47   |
| Franklin   | 0.00                                       | 0.01            | 0.00  | 0.00   |
| Gulf       | 0.00                                       | 0.00            | 0.00  | 0.02   |
| Okaloosa   | 0.00                                       | 0.00            | 0.00  | 6.05   |
| Santa Rosa | 0.00                                       | 0.00            | 0.64  | 8.83   |
| Walton     | 0.00                                       | 0.41            | 0.00  | 0.00   |
| Region     | 0.00                                       | 0.63            | 0.88  | 24.68  |
| Florida    | 69.94                                      | 65.77           | 52.69 | 130.75 |

<sup>a</sup> Million gal per day.

<sup>b</sup> Air conditioning.

Table EIR 30. Water used for thermoelectric power in 1975 (Leach 1978).

| County     | Cooling water (Mgal/d) <sup>a</sup> |        |               |           | Public supply |
|------------|-------------------------------------|--------|---------------|-----------|---------------|
|            | Self-supplied                       |        |               |           |               |
|            | Ground water                        |        | Surface water |           |               |
|            | Fresh                               | Saline | Fresh         | Saline    |               |
| Bay        | 0.00                                | 0.00   | 0.00          | 228.70    | 0.00          |
| Escambia   | 0.00                                | 0.00   | 265.40        | 0.00      | 0.00          |
| Franklin   | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Gulf       | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Okaloosa   | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Santa Rosa | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Walton     | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Region     | 0.00                                | 0.00   | 265.40        | 228.70    | 0.00          |
| Florida    | 51.70                               | 47.50  | 1,633.00      | 11,391.50 | 1.44          |

| County     | Other water (Mgal/d) |               |               |                |        |
|------------|----------------------|---------------|---------------|----------------|--------|
|            | Self-supplied        |               | Public supply | Water consumed |        |
|            | Ground fresh         | Surface fresh |               | Fresh          | Saline |
|            |                      |               |               |                |        |
| Bay        | 0.68                 | 0.00          | 0.00          | 0.50           | 2.10   |
| Escambia   | 2.52                 | 0.00          | 0.00          | 7.70           | 0.00   |
| Franklin   | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Gulf       | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Okaloosa   | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Santa Rosa | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Walton     | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Region     | 3.20                 | 0.00          | 0.00          | 8.20           | 2.10   |
| Florida    | 8.45                 | 2.39          | 1.64          | 36.10          | 91.10  |

<sup>a</sup> Million gal per day.

Table EIR 31. Water used for public supplies by hydrologic unit in 1975 (Leach 1978).

| County               | Water withdrawn (Mgal/d) <sup>a</sup> |                 |         |            |
|----------------------|---------------------------------------|-----------------|---------|------------|
|                      | GW <sup>b</sup>                       | SW <sup>c</sup> | Total   | Per capita |
| Hydrologic unit 0312 |                                       |                 |         |            |
| Franklin             | 0.00                                  | 0.00            | 0.00    | 0.00       |
| Unit                 | 16.93                                 | 1.18            | 18.11   | 146.00     |
| Hydrologic unit 0313 |                                       |                 |         |            |
| Bay                  | 0.00                                  | 0.00            | 0.00    | 0.00       |
| Franklin             | 0.99                                  | 0.00            | 0.99    | 148.00     |
| Gulf                 | 0.03                                  | 0.00            | 0.03    | 43.00      |
| Unit                 | 3.06                                  | 0.01            | 3.07    | 108.00     |
| Hydrologic unit 0314 |                                       |                 |         |            |
| Bay                  | 1.95                                  | 32.59           | 34.54   | 418.00     |
| Escambia             | 27.46                                 | 0.34            | 27.80   | 145.00     |
| Gulf                 | 0.08                                  | 0.64            | 0.72    | 122.00     |
| Okaloosa             | 9.31                                  | 0.00            | 9.31    | 117.00     |
| Santa Rosa           | 3.40                                  | 0.00            | 3.40    | 90.00      |
| Walton               | 1.08                                  | 0.00            | 1.08    | 102.00     |
| Unit                 | 44.51                                 | 33.57           | 78.08   | 185.00     |
| Florida              | 982.84                                | 162.98          | 1145.82 | 168.00     |

Continued



Table EIR 31. Concluded.

| County               | Water delivered by uses (Mgal/d) |             |          |            |                  | Water consumed |
|----------------------|----------------------------------|-------------|----------|------------|------------------|----------------|
|                      | Public supply                    | Agriculture | Industry | Commercial | A/C <sup>d</sup> |                |
| Hydrologic unit 0312 |                                  |             |          |            |                  |                |
| Franklin             | 0.00                             | 0.00        | 0.00     | 0.00       | 0.00             | 0.00           |
| Unit                 | 15.11                            | 0.01        | 0.00     | 2.99       | 0.00             | 5.04           |
| Hydrologic unit 0313 |                                  |             |          |            |                  |                |
| Bay                  | 0.00                             | 0.00        | 0.00     | 0.00       | 0.00             | 0.00           |
| Franklin             | 0.72                             | 0.00        | 0.06     | 0.22       | 0.00             | 0.69           |
| Gulf                 | 0.03                             | 0.00        | 0.00     | 0.00       | 0.00             | 0.01           |
| Unit                 | 2.21                             | 0.01        | 0.18     | 0.66       | 0.01             | 1.27           |
| Hydrologic unit 0314 |                                  |             |          |            |                  |                |
| Bay                  | 7.84                             | 0.00        | 25.56    | 1.14       | 0.00             | 12.49          |
| Escambia             | 19.43                            | 0.06        | 0.00     | 8.31       | 0.00             | 5.51           |
| Gulf                 | 0.44                             | 0.00        | 0.26     | 0.01       | 0.00             | 0.14           |
| Okaloosa             | 8.53                             | 0.12        | 0.00     | 0.66       | 0.00             | 4.16           |
| Santa Rosa           | 2.99                             | 0.06        | 0.00     | 0.35       | 0.00             | 1.04           |
| Walton               | 0.86                             | 0.00        | 0.02     | 0.18       | 0.02             | 0.52           |
| Unit                 | 41.21                            | 0.24        | 25.91    | 10.71      | 0.02             | 24.39          |
| Florida              | 923.59                           | 24.71       | 80.90    | 83.63      | 33.00            | 559.98         |

- <sup>a</sup> Million gal per day.
- <sup>b</sup> Ground water.
- <sup>c</sup> Surface water.
- <sup>d</sup> Air conditioning.

Table EIR 32. Rural water used by hydrologic unit in 1975 (Leach 1978).

| County               | Domestic use (Mgal/d) <sup>a</sup> |                 |        |          | Livestock use (Mgal/d) |       |       |          |
|----------------------|------------------------------------|-----------------|--------|----------|------------------------|-------|-------|----------|
|                      | Withdrawn                          |                 |        | Consumed | Withdrawn              |       |       | Consumed |
|                      | SW <sup>b</sup>                    | GW <sup>c</sup> | All    |          | SW                     | GW    | All   |          |
| Hydrologic unit 0312 |                                    |                 |        |          |                        |       |       |          |
| Franklin             | 0.00                               | 0.01            | 0.01   | 0.01     | 0.00                   | 0.00  | 0.00  | 0.00     |
| Unit                 | 0.10                               | 5.48            | 5.58   | 2.07     | 0.22                   | 0.41  | 0.63  | 0.63     |
| Hydrologic unit 0313 |                                    |                 |        |          |                        |       |       |          |
| Bay                  | 0.00                               | 0.01            | 0.01   | 0.00     | 0.00                   | 0.00  | 0.00  | 0.00     |
| Franklin             | 0.00                               | 0.11            | 0.11   | 0.02     | 0.01                   | 0.00  | 0.01  | 0.01     |
| Gulf                 | 0.00                               | 0.27            | 0.27   | 0.05     | 0.05                   | 0.03  | 0.08  | 0.08     |
| Unit                 | 0.01                               | 3.51            | 3.52   | 1.19     | 0.52                   | 0.33  | 0.85  | 0.85     |
| Hydrologic unit 0314 |                                    |                 |        |          |                        |       |       |          |
| Bay                  | 0.00                               | 0.88            | 0.88   | 0.18     | 0.16                   | 0.07  | 0.23  | 0.23     |
| Escambia             | 0.00                               | 3.28            | 3.28   | 0.60     | 0.17                   | 3.02  | 3.19  | 3.19     |
| Gulf                 | 0.00                               | 0.16            | 0.16   | 0.03     | 0.03                   | 0.01  | 0.04  | 0.04     |
| Okaloosa             | 0.00                               | 2.21            | 2.21   | 0.44     | 0.11                   | 0.07  | 0.18  | 0.18     |
| Santa Rosa           | 0.00                               | 1.05            | 1.05   | 0.21     | 0.17                   | 0.07  | 0.24  | 0.24     |
| Walton               | 0.74                               | 0.00            | 0.74   | 0.59     | 0.14                   | 0.08  | 0.22  | 0.22     |
| Unit                 | 0.74                               | 9.61            | 10.35  | 2.93     | 1.13                   | 3.61  | 4.74  | 4.74     |
| Florida              | 2.05                               | 200.93          | 202.98 | 50.33    | 12.15                  | 50.87 | 63.02 | 62.57    |

Continued

Table EIR 32. Concluded.

| County               | All uses (Mgal/d) |        |        |          |
|----------------------|-------------------|--------|--------|----------|
|                      | Withdrawn         |        |        | Consumed |
|                      | SW                | GW     | ATT    |          |
| Hydrologic unit 0312 |                   |        |        |          |
| Franklin             | 0.00              | 0.01   | 0.01   | 0.01     |
| Unit                 | 0.32              | 5.89   | 6.21   | 2.70     |
| Hydrologic unit 0313 |                   |        |        |          |
| Bay                  | 0.00              | 0.01   | 0.01   | 0.00     |
| Franklin             | 0.01              | 0.11   | 0.12   | 0.03     |
| Gulf                 | 0.05              | 0.30   | 0.35   | 0.13     |
| Unit                 | 0.53              | 3.84   | 4.37   | 2.04     |
| Hydrologic unit 0314 |                   |        |        |          |
| Bay                  | 0.16              | 0.95   | 1.11   | 0.41     |
| Escambia             | 0.17              | 6.30   | 6.47   | 3.79     |
| Gulf                 | 0.03              | 0.17   | 0.20   | 0.07     |
| Okaloosa             | 0.11              | 2.28   | 2.39   | 0.62     |
| Santa Rosa           | 0.17              | 1.12   | 1.29   | 0.45     |
| Walton               | 0.88              | 0.08   | 0.96   | 0.81     |
| Unit                 | 1.87              | 13.22  | 15.09  | 7.67     |
| Florida              | 14.20             | 251.80 | 266.00 | 112.90   |

<sup>a</sup> Million gal per day.

<sup>b</sup> Surface water.

<sup>c</sup> Ground water.

Table EIR 33. Water used for irrigation by hydrologic unit in 1975 (Leach 1978).

| County               | Total water withdrawn (Mgal/d) <sup>a</sup> |                 |          |                    |                    |
|----------------------|---|-----------------|----------|--------------------|--------------------|
|                      | SW <sup>b</sup>                             | GW <sup>c</sup> | All      | Conveyance<br>loss | Consumptive<br>use |
| Hydrologic unit 0312 |   |                 |          |                    |                    |
| Franklin             | 0.00  | 0.00            | 0.00     | 0.00               | 0.00               |
| Unit                 | 2.19  | 0.67            | 2.86     | 0.00               | 0.47               |
| Hydrologic unit 0313 |   |                 |          |                    |                    |
| Bay                  | 0.00  | 0.00            | 0.00     | 0.00               | 0.00               |
| Franklin             | 0.00  | 0.00            | 0.00     | 0.00               | 0.00               |
| Gulf                 | 0.00  | 0.00            | 0.00     | 0.00               | 0.00               |
| Unit                 | 2.35  | 5.77            | 8.12     | 0.00               | 1.88               |
| Hydrologic unit 0314 |   |                 |          |                    |                    |
| Bay                  | 0.00  | 0.00            | 0.00     | 0.00               | 0.00               |
| Escambia             | 0.27  | 0.63            | 0.90     | 0.00               | 0.18               |
| Gulf                 | 0.0   | 0.22            | 0.22     | 0.00               | 0.09               |
| Okaloosa             | 0.34  | 0.38            | 0.72     | 0.00               | 0.14               |
| Santa Rosa           | 0.00  | 0.33            | 0.33     | 0.00               | 0.07               |
| Walton               | 0.19  | 0.59            | 0.78     | 0.00               | 0.13               |
| Unit                 | 0.96  | 2.96            | 3.93     | 0.00               | 0.83               |
| Florida              | 1,628.52                                    | 1,238.96        | 2,867.48 | 218.11             | 1,331.87           |

- <sup>a</sup> Million gal per day.  
<sup>b</sup> Surface water.  
<sup>c</sup> Ground water.

Table EIR 34. Self supplied water for industrial use by hydrologic unit in 1975 (Leach 1978).

| County               | Water withdrawn (Mgal/d) <sup>a</sup> |        |               |        |           |        | Water consumed |
|----------------------|---------------------------------------|--------|---------------|--------|-----------|--------|----------------|
|                      | Ground water                          |        | Surface water |        | All water |        |                |
|                      | Fresh                                 | Saline | Fresh         | Saline | Fresh     | Saline |                |
| Hydrologic unit 0312 |                                       |        |               |        |           |        |                |
| Franklin             | 0.00                                  | 0.00   | 0.00          | 0.00   | 0.00      | 0.00   | 0.00           |
| Unit                 | 34.85                                 | 0.00   | 0.54          | 0.00   | 35.39     | 0.00   | 1.75           |
| Hydrologic unit 0313 |                                       |        |               |        |           |        |                |
| Bay                  | 0.00                                  | 0.00   | 0.00          | 0.00   | 0.00      | 0.00   | 0.00           |
| Franklin             | 0.01                                  | 0.00   | 0.00          | 0.00   | 0.01      | 0.00   | 0.01           |
| Gulf                 | 0.00                                  | 0.00   | 0.00          | 0.00   | 0.00      | 0.00   | 0.00           |
| Unit                 | 1.17                                  | 0.00   | 1.83          | 0.00   | 3.00      | 0.00   | 1.23           |
| Hydrologic unit 0314 |                                       |        |               |        |           |        |                |
| Bay                  | 1.35                                  | 0.00   | 0.00          | 0.00   | 1.35      | 0.00   | 0.33           |
| Escambia             | 44.75                                 | 2.80   | 31.70         | 0.24   | 76.45     | 3.04   | 18.02          |
| Gulf                 | 0.52                                  | 0.00   | 33.20         | 13.00  | 33.72     | 13.00  | 18.35          |
| Okaloosa             | 6.05                                  | 0.00   | 0.00          | 0.00   | 6.05      | 0.00   | 1.23           |
| Santa Rosa           | 17.67                                 | 0.00   | 0.00          | 0.00   | 17.67     | 0.00   | 4.83           |
| Walton               | 0.41                                  | 0.00   | 0.00          | 0.00   | 0.41      | 0.00   | 0.27           |
| Unit                 | 70.77                                 | 2.80   | 64.90         | 13.24  | 135.67    | 16.04  | 43.03          |
| Florida              | 778.92                                | 47.80  | 160.70        | 15.24  | 939.62    | 63.04  | 262.91         |

Continued

Table EIR 34. Continued.

| County               | Fresh water use by major classification (Mgal/d) |                   |                      |                     |
|----------------------|--|-------------------|----------------------|---------------------|
|                      | Limerock<br>mining                               | Pulp<br>and paper | Chemical<br>products | Phosphate<br>mining |
| Hydrologic unit 0312 |  |                   |                      |                     |
| Franklin             | 0.00   | 0.00              | 0.00                 | 0.00                |
| Unit                 | 0.00   | 0.00              | 0.15                 | 0.00                |
| Hydrologic unit 0313 |  |                   |                      |                     |
| Bay                  | 0.00   | 0.00              | 0.00                 | 0.00                |
| Franklin             | 0.00   | 0.00              | 0.00                 | 0.00                |
| Gulf                 | 0.00   | 0.00              | 0.00                 | 0.00                |
| Unit                 | 0.00   | 0.00              | 0.00                 | 0.00                |
| Hydrologic unit 0314 |  |                   |                      |                     |
| Bay                  | 0.00   | 0.33              | 0.50                 | 0.00                |
| Escambia             | 0.00   | 24.00             | 45.78                | 0.00                |
| Gulf                 | 0.00   | 32.20             | 14.50                | 0.0                 |
| Okaloosa             | 0.00   | 0.00              | 0.00                 | 0.00                |
| Santa Rosa           | 0.00   | 0.00              | 8.20                 | 0.00                |
| Walton               | 0.00   | 0.00              | 0.00                 | 0.00                |
| Unit                 | 0.00   | 56.53             | 68.98                | 0.00                |
| Florida              | 87.97  | 225.31            | 100.05               | 270.33              |

Continued

Table EIR 34 . Concluded .

| County               | Water use by major classification (Mgal/d) |                 |                  |        |
|----------------------|--|-----------------|------------------|--------|
|                      | Citrus processing                          | Food processing | A/C <sup>b</sup> | Other  |
| Hydrologic unit 0312 |  |                 |                  |        |
| Franklin Unit        | 0.00                                       | 0.00            | 0.00             | 0.00   |
|                      | 0.00                                       | 0.00            | 33.61            | 1.63   |
| Hydrologic unit 0313 |  |                 |                  |        |
| Bay                  | 0.00                                       | 0.00            | 0.00             | 0.00   |
| Franklin             | 0.00                                       | 0.01            | 0.00             | 0.00   |
| Gulf                 | 0.00                                       | 0.00            | 0.00             | 0.00   |
| Unit                 | 0.00                                       | 0.01            | 0.00             | 2.99   |
| Hydrologic unit 0314 |  |                 |                  |        |
| Bay                  | 0.00                                       | 0.21            | 0.00             | 0.31   |
| Escambia             | 0.00                                       | 0.00            | 0.24             | 9.47   |
| Gulf                 | 0.00                                       | 0.00            | 0.00             | 0.02   |
| Okaloosa             | 0.00                                       | 0.00            | 0.00             | 6.05   |
| Santa Rosa           | 0.00                                       | 0.00            | 0.64             | 8.83   |
| Walton               | 0.00                                       | 0.41            | 0.00             | 0.00   |
| Unit                 | 0.00                                       | 0.62            | 0.88             | 24.70  |
| Florida              | 69.94                                      | 65.77           | 52.69            | 130.75 |

<sup>a</sup> Million gal per day.

<sup>b</sup> Air conditioning.

Table EIR 35. Water used for theromelectric power by hydrologic unit in 1975 (Leach 1978).

| County               | Cooling water (Mgal/d) <sup>a</sup> |        |               |           |               |
|----------------------|-------------------------------------|--------|---------------|-----------|---------------|
|                      | Self-supplied                       |        |               |           | Public supply |
|                      | Ground water                        |        | Surface water |           |               |
|                      | Fresh                               | Saline | Fresh         | Saline    |               |
| Hydrologic unit 0312 |                                     |        |               |           |               |
| Franklin             | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Unit                 | 1.00                                | 0.00   | 104.60        | 0.00      | 0.00          |
| Hydrologic unit 0313 |                                     |        |               |           |               |
| Bay                  | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Franklin             | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Gulf                 | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Unit                 | 0.00                                | 0.00   | 120.10        | 0.00      | 0.00          |
| Hydrologic unit 0314 |                                     |        |               |           |               |
| Bay                  | 0.00                                | 0.00   | 0.00          | 228.70    | 0.00          |
| Escambia             | 0.00                                | 0.00   | 265.40        | 0.00      | 0.00          |
| Gulf                 | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Okaloosa             | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Santa Rosa           | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Walton               | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Unit                 | 0.00                                | 0.00   | 265.40        | 228.70    | 0.00          |
| Florida              | 51.70                               | 47.50  | 1,633.00      | 11,391.50 | 1.44          |

Continued



Table EIR 35. Concluded.

| County               | Other water (Mgal/d) |               |               |                |        |
|----------------------|----------------------|---------------|---------------|----------------|--------|
|                      | Self-supplied        |               | Public supply | Water consumed |        |
|                      | Ground fresh         | Surface fresh |               | Fresh          | Saline |
| Hydrologic unit 0312 |                      |               |               |                |        |
| Franklin             | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Unit                 | 0.46                 | 0.00          | 0.70          | 0.60           | 0.00   |
| Hydrologic unit 0313 |                      |               |               |                |        |
| Bay                  | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Franklin             | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Gulf                 | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Unit                 | 0.00                 | 0.32          | 0.00          | 0.80           | 0.00   |
| Hydrologic unit 0314 |                      |               |               |                |        |
| Bay                  | 0.68                 | 0.00          | 0.00          | 0.50           | 2.10   |
| Escambia             | 2.52                 | 0.00          | 0.00          | 7.20           | 0.00   |
| Gulf                 | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Okaloosa             | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Santa Rosa           | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Walton               | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Unit                 | 3.20                 | 0.00          | 0.00          | 8.20           | 2.10   |
| Florida              | 8.45                 | 2.39          | 1.64          | 36.10          | 91.10  |

<sup>a</sup> Million gal per day.

Table EIR 36. Water used for public supplies in 1977 (Leach and Healy 1980).

| County     | Water withdrawn (Mgal/d) <sup>a</sup> |                 |          |            |
|------------|---------------------------------------|-----------------|----------|------------|
|            | GW <sup>b</sup>                       | SW <sup>c</sup> | Total    | Per capita |
| Bay        | 2.91                                  | 36.05           | 38.96    | 493        |
| Escambia   | 30.48                                 | 0.00            | 30.48    | 162        |
| Franklin   | 1.11                                  | 0.00            | 1.11     | 176        |
| Gulf       | 0.16                                  | 0.72            | 0.88     | 160        |
| Okaloosa   | 12.79                                 | 0.00            | 12.79    | 165        |
| Santa Rosa | 4.39                                  | 0.00            | 4.39     | 108        |
| Walton     | 0.99                                  | 0.00            | 0.99     | 101        |
| Region     | 52.83                                 | 36.77           | 89.60    | N.D.       |
| Florida    | 1,059.06                              | 172.82          | 1,231.88 | 171        |

| County     | Water delivered by uses (Mgal/d) |             |          |            |                  | Water consumed |
|------------|----------------------------------|-------------|----------|------------|------------------|----------------|
|            | Public supply                    | Agriculture | Industry | Commercial | A/C <sup>d</sup> |                |
| Bay        | 9.30                             | 0.00        | 26.76    | 2.90       | 0.00             | 13.91          |
| Escambia   | 23.81                            | 0.07        | 1.25     | 5.35       | 0.00             | 15.44          |
| Franklin   | 0.81                             | 0.00        | 0.06     | 0.24       | 0.00             | 0.22           |
| Gulf       | 0.54                             | 0.00        | 0.31     | 0.03       | 0.00             | 0.18           |
| Okaloosa   | 11.44                            | 0.13        | 0.00     | 1.22       | 0.00             | 4.53           |
| Santa Rosa | 3.79                             | 0.11        | 0.00     | 0.49       | 0.00             | 1.27           |
| Walton     | 0.78                             | 0.00        | 0.02     | 0.17       | 0.01             | 0.38           |
| Region     | 50.47                            | 0.31        | 28.40    | 9.67       | 0.01             | 32.67          |
| Florida    | 960.82                           | 23.84       | 92.88    | 124.67     | 29.67            | 508.45         |

<sup>a</sup> Million gal per day.

<sup>b</sup> Ground water.

<sup>c</sup> Surface water.

<sup>d</sup> Air conditioning.

Table EIR 37. Rural water use in 1977 (Leach and Healy 1980).

| County     | Domestic use (Mgal/d) <sup>a</sup> |                 |        |          | Livestock use (Mgal/d) |       |       |          |
|------------|------------------------------------|-----------------|--------|----------|------------------------|-------|-------|----------|
|            | Withdrawn                          |                 |        | Consumed | Withdrawn              |       |       | Consumed |
|            | SW <sup>b</sup>                    | GW <sup>c</sup> | ATT    |          | SW                     | GW    | ATT   |          |
| Bay        | 0.00                               | 1.76            | 1.76   | 0.44     | 0.01                   | 0.02  | 0.03  | 0.03     |
| Escambia   | 0.00                               | 4.18            | 4.18   | 0.92     | 0.04                   | 0.15  | 0.19  | 0.19     |
| Franklin   | 0.00                               | 0.20            | 0.20   | 0.05     | 0.01                   | 0.01  | 0.02  | 0.02     |
| Gulf       | 0.00                               | 0.56            | 0.56   | 0.14     | 0.04                   | 0.02  | 0.06  | 0.06     |
| Okaloosa   | 0.00                               | 3.15            | 3.15   | 0.79     | 0.12                   | 0.03  | 0.15  | 0.15     |
| Santa Rosa | 0.00                               | 1.18            | 1.18   | 0.30     | 0.08                   | 0.06  | 0.14  | 0.14     |
| Walton     | 0.00                               | 0.95            | 0.95   | 0.24     | 0.10                   | 0.07  | 0.17  | 0.17     |
| Region     | 0.00                               | 11.98           | 11.98  | 2.88     | 0.40                   | 0.36  | 0.76  | 0.76     |
| Florida    | 1.01                               | 191.81          | 192.82 | 50.26    | 20.07                  | 44.00 | 64.07 | 64.07    |

| County     | All uses (Mgal/d) |        |        |          |
|------------|-------------------|--------|--------|----------|
|            | Withdrawn         |        |        | Consumed |
|            | SW                | GW     | ATT    |          |
| Bay        | 0.01              | 1.78   | 1.79   | 0.47     |
| Escambia   | 0.04              | 4.33   | 4.37   | 1.11     |
| Franklin   | 0.01              | 0.21   | 0.22   | 0.07     |
| Gulf       | 0.04              | 0.58   | 0.62   | 0.20     |
| Okaloosa   | 0.12              | 3.18   | 3.30   | 0.94     |
| Santa Rosa | 0.08              | 1.24   | 1.32   | 0.44     |
| Walton     | 0.10              | 1.02   | 1.12   | 0.41     |
| Region     | 0.40              | 12.34  | 12.74  | 3.64     |
| Florida    | 21.08             | 235.81 | 256.89 | 114.33   |

- <sup>a</sup> Million gal per day.  
<sup>b</sup> Surface water.  
<sup>c</sup> Ground water.

Table EIR 38. Water used for irrigation in 1977 (Leach and Healy 1980).

| County     | Total water withdrawn (Mgal/day) <sup>a</sup> |                 |          |                 | Consumptive use |
|------------|---|-----------------|----------|-----------------|-----------------|
|            | SW <sup>b</sup>                               | GW <sup>c</sup> | All      | Conveyance loss |                 |
| Bay        | 0.00  | 0.38            | 0.38     | 0.00            | 0.08            |
| Escambia   | 0.35  | 0.62            | 0.97     | 0.00            | 0.19            |
| Franklin   | 0.00  | 0.00            | 0.00     | 0.00            | 0.00            |
| Gulf       | 0.00  | 0.22            | 0.22     | 0.00            | 0.09            |
| Okaloosa   | 0.45  | 0.31            | 0.76     | 0.00            | 0.15            |
| Santa Rosa | 0.13  | 1.50            | 1.63     | 0.00            | 0.33            |
| Walton     | 0.93  | 3.68            | 4.62     | 0.00            | 0.92            |
| Region     | 1.86  | 6.71            | 8.58     | 0.00            | 1.76            |
| Florida    | 1,449.29                                      | 1,423.25        | 2,872.55 | 191.74          | 1,255.23        |

<sup>a</sup> Million gal per day.

<sup>b</sup> Surface water.

<sup>c</sup> Ground water.

Table EIR 39. Self-supplied water for industrial use for 1977 (Leach and Healy 1978).

| County     | Water withdrawn (Mgal/d) <sup>a</sup> |        |               |        |           |        | Water consumed |
|------------|---------------------------------------|--------|---------------|--------|-----------|--------|----------------|
|            | Ground water                          |        | Surface water |        | All water |        |                |
|            | Fresh                                 | Saline | Fresh         | Saline | Fresh     | Saline |                |
| Bay        | 1.32                                  | 0.00   | 0.00          | 0.00   | 1.32      | 0.00   | 0.97           |
| Escambia   | 47.36                                 | 1.60   | 25.60         | 0.24   | 72.96     | 1.84   | 21.96          |
| Franklin   | 0.01                                  | 0.00   | 0.00          | 0.00   | 0.01      | 0.00   | 0.01           |
| Gulf       | 0.52                                  | 0.00   | 33.20         | 13.00  | 33.72     | 13.00  | 7.11           |
| Okaloosa   | 5.45                                  | 0.00   | 0.00          | 0.00   | 5.45      | 0.00   | 1.16           |
| Santa Rosa | 18.99                                 | 0.00   | 0.00          | 0.00   | 18.99     | 0.00   | 15.92          |
| Walton     | 0.80                                  | 0.00   | 0.00          | 0.00   | 0.80      | 0.00   | 0.27           |
| Region     | 74.45                                 | 1.60   | 58.80         | 13.24  | 133.34    | 14.84  | 47.49          |
| Florida    | 733.06                                | 58.25  | 189.23        | 15.24  | 922.28    | 73.49  | 294.65         |

| County     | Fresh water use by major classification (Mgal/d) |                |                   |                  |
|------------|--|----------------|-------------------|------------------|
|            | Limerock mining                                  | Pulp and paper | Chemical products | Phosphate mining |
| Bay        | 0.00   | 0.12           | 0.72              | 0.00             |
| Escambia   | 0.00   | 24.86          | 39.66             | 0.00             |
| Franklin   | 0.00   | 0.00           | 0.00              | 0.00             |
| Gulf       | 0.00   | 31.70          | 15.00             | 0.00             |
| Okaloosa   | 0.00   | 0.00           | 0.00              | 0.00             |
| Santa Rosa | 0.00   | 0.00           | 8.36              | 0.00             |
| Walton     | 0.00   | 0.00           | 0.00              | 0.00             |
| Region     | 0.00   | 56.68          | 63.74             | 0.00             |
| Florida    | 49.49  | 225.41         | 175.85            | 181.22           |

Continued

Table EIR 39. Concluded.

| County     | Fresh water use by major classification (Mgal/d) <sup>a</sup> |                 |                  |        |
|------------|---|-----------------|------------------|--------|
|            | Citrus processing   | Food processing | A/C <sup>b</sup> | Other  |
| Bay        | 0.00  | 0.21            | 0.00             | 0.27   |
| Escambia   | 0.00  | 0.00            | 0.24             | 10.04  |
| Franklin   | 0.00  | 0.10            | 0.00             | 0.00   |
| Gulf       | 0.00  | 0.00            | 0.00             | 0.20   |
| Okaloosa   | 0.00  | 0.00            | 0.00             | 5.45   |
| Santa Rosa | 0.00  | 0.00            | 0.64             | 9.99   |
| Walton     | 0.00  | 0.80            | 0.00             | 0.00   |
| Region     | 0.00  | 1.11            | 0.88             | 25.95  |
| Florida    | 59.91   | 90.60           | 55.27            | 158.01 |

<sup>a</sup> Million gal per day.  
<sup>b</sup> Air conditioning.

Table EIR 40. Water used for thermoelectric power in 1977 (Leach and Healy 1980).

| County     | Cooling water (Mgal/d) <sup>a</sup> |        |               |           |               |
|------------|-------------------------------------|--------|---------------|-----------|---------------|
|            | Self-supplied                       |        |               |           | Public supply |
|            | Ground water                        |        | Surface water |           |               |
|            | Fresh                               | Saline | Fresh         | Saline    |               |
| Bay        | 0.00                                | 0.00   | 0.00          | 227.80    | 0.00          |
| Escambia   | 0.00                                | 0.00   | 249.70        | 0.00      | 0.00          |
| Franklin   | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Gulf       | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Okaloosa   | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Santa Rosa | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Walton     | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Region     | 0.00                                | 0.00   | 249.70        | 227.80    | 0.00          |
| Florida    | 46.40                               | 49.30  | 1,309.90      | 14,688.90 | 1.54          |

| County     | Other water (Mgal/d) |               |               |                |        |
|------------|----------------------|---------------|---------------|----------------|--------|
|            | Self-supplied        |               |               | Water consumed |        |
|            | Ground fresh         | Surface fresh | Public supply | Fresh          | Saline |
|            | Bay                  | 0.70          | 0.00          | 0.00           | 0.50   |
| Escambia   | 2.50                 | 0.00          | 0.00          | 2.10           | 0.00   |
| Franklin   | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Gulf       | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Okaloosa   | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Santa Rosa | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Walton     | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Region     | 3.20                 | 0.00          | 0.00          | 2.70           | 2.10   |
| Florida    | 8.82                 | 2.15          | 1.12          | 32.00          | 137.60 |

<sup>a</sup> Million gal per day.

Table EIR 41. Water used for public supplies by hydrologic unit in 1977 (Leach and Healy 1980).

| County               | Water withdrawn (Mgal/d) <sup>a</sup> |                 |          |            |
|----------------------|---------------------------------------|-----------------|----------|------------|
|                      | GW <sup>b</sup>                       | SW <sup>c</sup> | Total    | Per capita |
| Hydrologic unit 0312 |                                       |                 |          |            |
| Franklin             | 0.00                                  | 0.00            | 0.00     | 0.00       |
| Unit                 | 18.37                                 | 1.48            | 19.85    | 174.00     |
| Hydrologic unit 0313 |                                       |                 |          |            |
| Bay                  | 0.00                                  | 0.00            | 0.00     | 0.00       |
| Franklin             | 1.11                                  | 0.00            | 1.11     | 176.00     |
| Gulf                 | 0.05                                  | 0.00            | 0.05     | 71.00      |
| Unit                 | 3.51                                  | 0.00            | 3.51     | 128.00     |
| Hydrologic unit 0314 |                                       |                 |          |            |
| Bay                  | 2.91                                  | 36.05           | 38.96    | 493.00     |
| Escambia             | 30.48                                 | 0.00            | 30.48    | 162.00     |
| Gulf                 | 0.11                                  | 0.72            | 0.83     | 173.00     |
| Okaloosa             | 12.79                                 | 0.00            | 12.79    | 165.00     |
| Santa Rosa           | 4.39                                  | 0.00            | 4.39     | 108.00     |
| Walton               | 0.99                                  | 0.00            | 0.99     | 101.00     |
| Unit                 | 53.49                                 | 36.77           | 90.26    | 218.00     |
| Florida              | 1,058.99                              | 170.85          | 1,229.84 | 172.00     |

Continued



Table EIR 41. Concluded.

| County               | Water delivered by uses (Mgal/d) |             |          |            |                  | Water consumed |
|----------------------|----------------------------------|-------------|----------|------------|------------------|----------------|
|                      | Public supply                    | Agriculture | Industry | Commercial | A/C <sup>d</sup> |                |
| Hydrologic unit 0312 |                                  |             |          |            |                  |                |
| Franklin             | 0.00                             | 0.00        | 0.00     | 0.00       | 0.00             | 0.00           |
| Unit                 | 16.46                            | 0.01        | 0.08     | 3.31       | 0.00             | 5.96           |
| Hydrologic unit 0313 |                                  |             |          |            |                  |                |
| Bay                  | 0.00                             | 0.00        | 0.00     | 0.00       | 0.00             | 0.00           |
| Franklin             | 0.81                             | 0.00        | 0.06     | 0.24       | 0.00             | 0.22           |
| Gulf                 | 0.05                             | 0.00        | 0.00     | 0.00       | 0.00             | 0.01           |
| Unit                 | 2.78                             | 0.03        | 0.07     | 0.61       | 0.01             | 0.97           |
| Hydrologic unit 0314 |                                  |             |          |            |                  |                |
| Bay                  | 9.30                             | 0.00        | 26.76    | 2.90       | 0.00             | 13.91          |
| Escambia             | 23.81                            | 0.07        | 1.25     | 5.35       | 0.00             | 15.44          |
| Gulf                 | 0.49                             | 0.00        | 0.31     | 0.03       | 0.00             | 0.17           |
| Okaloosa             | 11.44                            | 0.13        | 0.00     | 1.22       | 0.00             | 4.53           |
| Santa Rosa           | 3.79                             | 0.11        | 0.00     | 0.49       | 0.00             | 1.27           |
| Walton               | 0.78                             | 0.00        | 0.02     | 0.17       | 0.01             | 0.38           |
| Unit                 | 51.20                            | 0.35        | 28.38    | 10.31      | 0.01             | 36.20          |
| Florida              | 959.19                           | 23.84       | 92.88    | 124.26     | 29.67            | 507.49         |

<sup>a</sup> Million gal per day.

<sup>b</sup> Ground water.

<sup>c</sup> Surface water.

<sup>d</sup> Air conditioning.

Table EIR 42. Rural water used by hydrologic unit in 1977 (Leach and Healy 1980).

| County               | Domestic use (Mgal/d) <sup>a</sup> |                 |        |          | Livestock use (Mgal/d) |       |       |          |
|----------------------|------------------------------------|-----------------|--------|----------|------------------------|-------|-------|----------|
|                      | Withdrawn                          |                 |        | Consumed | Withdrawn              |       |       | Consumed |
|                      | SW <sup>b</sup>                    | GW <sup>c</sup> | All    |          | SW                     | GW    | All   |          |
| Hydrologic unit 0312 |                                    |                 |        |          |                        |       |       |          |
| Franklin             | 0.00                               | 0.02            | 0.02   | 0.01     | 0.00                   | 0.00  | 0.00  | 0.00     |
| Unit                 | 0.10                               | 6.84            | 6.94   | 1.70     | 0.23                   | 0.18  | 0.41  | 0.41     |
| Hydrologic unit 0313 |                                    |                 |        |          |                        |       |       |          |
| Bay                  | 0.00                               | 0.02            | 0.02   | 0.01     | 0.00                   | 0.00  | 0.00  | 0.00     |
| Franklin             | 0.00                               | 0.18            | 0.18   | 0.04     | 0.01                   | 0.01  | 0.02  | 0.02     |
| Gulf                 | 0.00                               | 0.35            | 0.35   | 0.09     | 0.03                   | 0.01  | 0.04  | 0.04     |
| Unit                 | 0.01                               | 3.86            | 3.87   | 0.97     | 0.54                   | 0.24  | 0.78  | 0.78     |
| Hydrologic unit 0314 |                                    |                 |        |          |                        |       |       |          |
| Bay                  | 0.00                               | 1.74            | 1.74   | 0.43     | 0.01                   | 0.02  | 0.03  | 0.03     |
| Escambia             | 0.00                               | 4.18            | 4.18   | 0.92     | 0.04                   | 0.15  | 0.19  | 0.19     |
| Gulf                 | 0.00                               | 0.21            | 0.21   | 0.05     | 0.01                   | 0.01  | 0.02  | 0.02     |
| Okaloosa             | 0.00                               | 3.15            | 3.15   | 0.79     | 0.12                   | 0.03  | 0.15  | 0.15     |
| Santa Rosa           | 0.00                               | 1.18            | 1.18   | 0.30     | 0.08                   | 0.06  | 0.14  | 0.14     |
| Walton               | 0.00                               | 0.95            | 0.95   | 0.24     | 0.10                   | 0.07  | 0.17  | 0.17     |
| Unit                 | 0.00                               | 13.90           | 13.90  | 3.36     | 0.70                   | 0.72  | 1.42  | 1.42     |
| Florida              | 1.01                               | 191.81          | 192.82 | 50.26    | 20.07                  | 44.00 | 64.07 | 64.07    |

Continued

Table EIR 42. Concluded.

| County  | All uses (Mgal/d)                                    |   |   | Consumed   |
|---|--|---|---|--|
|   | SW   | GW  | ATT   |  |
| Hydrologic unit 0312                              |  |   |   |  |
| Franklin Unit                                     | 0.00<br>0.33   | 0.02<br>7.02  | 0.02<br>7.35  | 0.01<br>2.11   |
| Hydrologic unit 0313                              |  |   |   |  |
| Bay Franklin Gulf Unit                            | 0.00<br>0.01<br>0.03<br>0.55                         | 0.02<br>0.19<br>0.36<br>4.10                          | 0.02<br>0.20<br>0.39<br>4.65                          | 0.01<br>0.06<br>0.13<br>1.75                         |
| Hydrologic unit 0314                              |  |   |   |  |
| Bay Escambia Gulf Okaloosa Santa Rosa Walton Unit | 0.01<br>0.04<br>0.01<br>0.12<br>0.08<br>0.10<br>0.70 | 1.76<br>4.33<br>0.22<br>3.18<br>1.24<br>1.02<br>14.62 | 1.77<br>4.37<br>0.23<br>3.30<br>1.32<br>1.12<br>15.32 | 0.46<br>1.11<br>0.07<br>0.94<br>0.44<br>0.41<br>4.78 |
| Florida   | 21.08  | 235.81  | 256.89  | 114.33   |

- <sup>a</sup> Million gal per day.
- <sup>b</sup> Surface water.
- <sup>c</sup> Ground water.

Table EIR 43. Water used for irrigation by hydrologic unit in 1977 (Leach and Healy 1980).

| County               | Total water withdrawn (Mgal/d) <sup>a</sup> |                 |          |                 |                 |
|----------------------|---|-----------------|----------|-----------------|-----------------|
|                      | SW <sup>b</sup>                             | GW <sup>c</sup> | All      | Conveyance loss | Consumptive use |
| Hydrologic unit 0312 |   |                 |          |                 |                 |
| Franklin             | 0.00  | 0.00            | 0.00     | 0.00            | 0.00            |
| Unit                 | 3.80  | 0.90            | 4.70     | 0.00            | 0.95            |
| Hydrologic unit 0313 |   |                 |          |                 |                 |
| Bay                  | 0.00  | 0.00            | 0.00     | 0.00            | 0.00            |
| Franklin             | 0.00  | 0.00            | 0.00     | 0.00            | 0.00            |
| Gulf                 | 0.00  | 0.00            | 0.00     | 0.00            | 0.00            |
| Unit                 | 3.25  | 4.96            | 8.20     | 0.00            | 1.60            |
| Hydrologic unit 0314 |   |                 |          |                 |                 |
| Bay                  | 0.00  | 0.38            | 0.38     | 0.00            | 0.08            |
| Escambia             | 0.35  | 0.62            | 0.97     | 0.00            | 0.19            |
| Gulf                 | 0.00  | 0.22            | 0.22     | 0.00            | 0.09            |
| Okaloosa             | 0.45  | 0.31            | 0.76     | 0.00            | 0.15            |
| Santa Rosa           | 0.13  | 1.50            | 1.63     | 0.00            | 0.33            |
| Walton               | 0.93  | 3.68            | 4.62     | 0.00            | 0.92            |
| Unit                 | 2.15  | 7.36            | 9.51     | 0.01            | 1.93            |
| Florida              | 1,449.30                                    | 1,423.25        | 2,872.55 | 191.74          | 1,255.23        |

<sup>a</sup> Million gal per day.

<sup>b</sup> Surface water.

<sup>c</sup> Ground water.

Table EIR 44. Self-supplied water for industrial use by hydrologic unit in 1977 (Leach and Healy 1980).

| County               | Water withdrawn (Mgal/d) <sup>a</sup> |        |               |        |           |        |                |
|----------------------|---------------------------------------|--------|---------------|--------|-----------|--------|----------------|
|                      | Ground water                          |        | Surface water |        | All water |        | Water consumed |
|                      | Fresh                                 | Saline | Fresh         | Saline | Fresh     | Saline |                |
| Hydrologic unit 0312 |                                       |        |               |        |           |        |                |
| Franklin             | 0.00                                  | 0.00   | 0.00          | 0.00   | 0.00      | 0.00   | 0.00           |
| Unit                 | 31.82                                 | 0.00   | 0.10          | 0.00   | 31.92     | 0.00   | 1.74           |
| Hydrologic unit 0313 |                                       |        |               |        |           |        |                |
| Bay                  | 0.00                                  | 0.00   | 0.00          | 0.00   | 0.00      | 0.00   | 0.00           |
| Franklin             | 0.01                                  | 0.00   | 0.00          | 0.00   | 0.01      | 0.00   | 0.01           |
| Gulf                 | 0.00                                  | 0.00   | 0.00          | 0.00   | 0.00      | 0.00   | 0.00           |
| Unit                 | 1.17                                  | 0.00   | 1.85          | 0.00   | 3.02      | 0.00   | 1.41           |
| Hydrologic unit 0314 |                                       |        |               |        |           |        |                |
| Bay                  | 1.32                                  | 0.00   | 0.00          | 0.00   | 1.32      | 0.00   | 0.97           |
| Escambia             | 47.36                                 | 1.60   | 25.60         | 0.24   | 72.96     | 1.84   | 21.96          |
| Gulf                 | 0.52                                  | 0.00   | 33.20         | 13.00  | 33.72     | 13.00  | 7.11           |
| Okaloosa             | 5.45                                  | 0.00   | 0.00          | 0.00   | 5.45      | 0.00   | 1.16           |
| Santa Rosa           | 18.99                                 | 0.00   | 0.00          | 0.00   | 18.99     | 0.00   | 15.92          |
| Walton               | 0.80                                  | 0.00   | 0.00          | 0.00   | 0.80      | 0.00   | 0.27           |
| Unit                 | 74.46                                 | 1.60   | 58.80         | 13.24  | 133.26    | 14.84  | 47.39          |
| Florida              | 733.06                                | 58.25  | 189.23        | 15.24  | 922.29    | 73.49  | 294.65         |

Continued

Table EIR 44 . Continued .

| County               | Water use by major classification (Mgal/d) |                   |                      |                     |
|----------------------|--|-------------------|----------------------|---------------------|
|                      | Limerock<br>mining                         | Pulp<br>and paper | Chemical<br>products | Phosphate<br>mining |
| Hydrologic unit 0312 |  |                   |                      |                     |
| Franklin             | 0.00                                       | 0.00              | 0.00                 | 0.00                |
| Unit                 | 0.00                                       | 0.00              | 0.15                 | 0.00                |
| Hydrologic unit 0313 |  |                   |                      |                     |
| Bay                  | 0.00                                       | 0.00              | 0.00                 | 0.00                |
| Franklin             | 0.00                                       | 0.00              | 0.00                 | 0.00                |
| Gulf                 | 0.00                                       | 0.00              | 0.00                 | 0.00                |
| Unit                 | 0.00                                       | 0.00              | 0.00                 | 0.00                |
| Hydrologic unit 0314 |  |                   |                      |                     |
| Bay                  | 0.00                                       | 0.12              | 0.72                 | 0.00                |
| Escambia             | 0.00                                       | 24.86             | 39.66                | 0.00                |
| Gulf                 | 0.00                                       | 31.70             | 15.00                | 0.00                |
| Okaloosa             | 0.00                                       | 0.00              | 0.00                 | 0.00                |
| Santa Rosa           | 0.00                                       | 0.00              | 8.36                 | 0.00                |
| Walton               | 0.00                                       | 0.00              | 0.00                 | 0.00                |
| Unit                 | 0.00                                       | 56.68             | 63.74                | 0.00                |
| Florida              | 49.49                                      | 225.41            | 175.85               | 181.22              |

Continued

Table EIR 44. Concluded.

| County               | Water use by major classification (Mgal/d) |                 |                  |        |
|----------------------|--|-----------------|------------------|--------|
|                      | Citrus processing                          | Food processing | A/C <sup>b</sup> | Other  |
| Hydrologic unit 0312 |  |                 |                  |        |
| Franklin             | 0.00                                       | 0.00            | 0.00             | 0.00   |
| Unit                 | 0.00                                       | 0.00            | 29.44            | 2.33   |
| Hydrologic unit 0313 |  |                 |                  |        |
| Bay                  | 0.00                                       | 0.00            | 0.00             | 0.00   |
| Franklin             | 0.00                                       | 0.01            | 0.00             | 0.00   |
| Gulf                 | 0.00                                       | 0.00            | 0.00             | 0.00   |
| Unit                 | 0.00                                       | 0.01            | 0.00             | 3.01   |
| Hydrologic unit 0314 |  |                 |                  |        |
| Bay                  | 0.00                                       | 0.21            | 0.00             | 0.27   |
| Escambia             | 0.00                                       | 0.00            | 0.24             | 10.04  |
| Gulf                 | 0.00                                       | 0.00            | 0.00             | 0.02   |
| Okaloosa             | 0.00                                       | 0.00            | 0.00             | 5.45   |
| Santa Rosa           | 0.00                                       | 0.00            | 0.64             | 9.99   |
| Walton               | 0.00                                       | 0.80            | 0.00             | 0.00   |
| Unit                 | 0.00                                       | 1.01            | 0.88             | 25.79  |
| Florida              | 59.91                                      | 90.60           | 55.27            | 158.01 |

<sup>a</sup> Million gal per day.  
<sup>b</sup> Air conditioning.

Table EIR 45. Water used for thermoelectric power by hydrologic unit in 1977 (Leach and Healy 1980).

| County               | Cooling water (Mgal/d) <sup>a</sup> |        |               |           |               |
|----------------------|-------------------------------------|--------|---------------|-----------|---------------|
|                      | Self-supplied                       |        |               |           | Public supply |
|                      | Ground water                        |        | Surface water |           |               |
|                      | Fresh                               | Saline | Fresh         | Saline    |               |
| Hydrologic unit 0312 |                                     |        |               |           |               |
| Franklin             | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Unit                 | 1.90                                | 0.00   | 93.30         | 0.00      | 0.00          |
| Hydrologic unit 0313 |                                     |        |               |           |               |
| Bay                  | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Franklin             | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Gulf                 | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Unit                 | 0.30                                | 0.00   | 109.20        | 0.00      | 0.00          |
| Hydrologic unit 0314 |                                     |        |               |           |               |
| Bay                  | 0.00                                | 0.00   | 0.00          | 227.80    | 0.00          |
| Escambia             | 0.00                                | 0.00   | 249.70        | 0.00      | 0.00          |
| Gulf                 | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Okaloosa             | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Santa Rosa           | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Walton               | 0.00                                | 0.00   | 0.00          | 0.00      | 0.00          |
| Unit                 | 0.00                                | 0.00   | 249.70        | 227.80    | 0.00          |
| Florida              | 46.40                               | 49.30  | 1,309.90      | 14,688.90 | 1.54          |

Continued



Table EIR 45. Concluded.

| County               | Other water (Mgal/d) |               |               |                |        |
|----------------------|----------------------|---------------|---------------|----------------|--------|
|                      | Self-supplied        |               | Public supply | Water consumed |        |
|                      | Ground fresh         | Surface fresh |               | Fresh          | Saline |
| Hydrologic unit 0312 |                      |               |               |                |        |
| Franklin             | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Unit                 | 0.42                 | 0.00          | 0.00          | 1.30           | 0.00   |
| Hydrologic unit 0313 |                      |               |               |                |        |
| Bay                  | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Franklin             | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Gulf                 | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Unit                 | 0.02                 | 0.00          | 0.00          | 0.60           | 0.00   |
| Hydrologic unit 0314 |                      |               |               |                |        |
| Bay                  | 0.70                 | 0.00          | 0.00          | 0.50           | 2.10   |
| Escambia             | 2.50                 | 0.00          | 0.00          | 2.10           | 0.00   |
| Gulf                 | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Okaloosa             | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Santa Rosa           | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Walton               | 0.00                 | 0.00          | 0.00          | 0.00           | 0.00   |
| Unit                 | 3.20                 | 0.00          | 0.00          | 2.60           | 2.10   |
| Florida              | 8.82                 | 2.15          | 1.12          | 32.00          | 137.60 |

<sup>a</sup> Million gal per day.

Table EIR 46. Endangered and threatened species in Bay County (Miller 1980).

---

| <u>Common Name</u>            | <u>Scientific Name</u>             |
|-------------------------------|------------------------------------|
| <u>Threatened Mammals</u>     |                                    |
| Florida black bear            | <u>Ursus americanus floridanus</u> |
| <u>Endangered Birds</u>       |                                    |
| Red-cockaded woodpecker       | <u>Picoides borealis</u>           |
| <u>Threatened Reptiles</u>    |                                    |
| Gopher tortoise               | <u>Gopherus polyphemus</u>         |
| <u>Threatened Amphibians</u>  |                                    |
| Florida gopher frog           | <u>Rana areolata aesopus</u>       |
| <u>Endangered Plants</u>      |                                    |
| Smooth-barked St. John's-wort | <u>Hypericum lissophloeus</u>      |
| White birds-in-a-nest         | <u>Macbridea alba</u>              |
| Giant water-dropwort          | <u>Oxypolis greenmanii</u>         |
| Large-leaved jointweed        | <u>Polygonella macrophylla</u>     |
| <u>Threatened Plants</u>      |                                    |
| Wiregrass gentian             | <u>Gentiana pennelliana</u>        |
| Mock pennyroyal               | <u>Hedeoma graveolens</u>          |
| Ashe's magnolia               | <u>Magnolia ashei</u>              |
| Orange azalea                 | <u>Rhododendron austrinum</u>      |
| White-top pitcherplant        | <u>Sarracenia leucophylla</u>      |
| Jackson-vine                  | <u>Smilax smallii</u>              |

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Table EIR 47. Endangered and threatened species in Escambia County (Miller 1980).

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| <u>Common Name</u>         | <u>Scientific Name</u>             |
|----------------------------|------------------------------------|
| <u>Threatened Mammals</u>  |                                    |
| Florida black bear         | <u>Ursus americanus floridanus</u> |
| <u>Threatened Reptiles</u> |                                    |
| Gopher tortoise            | <u>Gopherus polyphemus</u>         |
| <u>Endangered Plants</u>   |                                    |
| Panhandle lily             | <u>Lilium iridollae</u>            |
| Large-leaved jointweed     | <u>Polygonella macrophylla</u>     |
| <u>Threatened Plants</u>   |                                    |
| Orange azalea              | <u>Rhododendron austrinum</u>      |
| White-top pitcherplant     | <u>Sarracenia leucophylla</u>      |
| Jackson-vine               | <u>Smilax smallii</u>              |
| Silky camellia             | <u>Stewartia malacodendron</u>     |

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Table EIR 48. Listing of endangered and threatened species in Franklin County (Miller 1980).

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| <u>Common Name</u>           | <u>Scientific Name</u>             |
|------------------------------|------------------------------------|
| <u>Threatened Mammals</u>    |                                    |
| Florida black bear           | <u>Ursus americanus</u> floridanus |
| <u>Endangered Birds</u>      |                                    |
| Red-cockaded woodpecker      | <u>Picoides borealis</u>           |
| <u>Threatened Reptiles</u>   |                                    |
| Gopher tortoise              | <u>Gopherus polyphemus</u>         |
| <u>Threatened Amphibians</u> |                                    |
| Florida gopher frog          | <u>Rana areolata</u> aesopus       |
| <u>Endangered Plants</u>     |                                    |
| Harper's beauty              | <u>Harperocallis flava</u>         |
| White birds-in-a-nest        | <u>Macbridea alba</u>              |
| Florida beargrass            | <u>Nolina atopocarpa</u>           |
| Grass-of-parnassus           | <u>Parnassia grandiflora</u>       |
| Large-leaved jointweed       | <u>Polygonella macrophylla</u>     |
| <u>Threatened Plants</u>     |                                    |
| Apalachicola rosemary        | <u>Conradina glabra</u>            |
| Wiregrass gentian            | <u>Gentiana pennelliana</u>        |
| Godfrey's blazing-star       | <u>Liatris provincialis</u>        |
| White-top pitcherplant       | <u>Sarracenia leucophylla</u>      |
| Jackson-vine                 | <u>Smilax smallii</u>              |

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Table EIR 49. Listing of endangered and threatened species in Gulf County (Miller 1980).

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| <u>Common Name</u>         | <u>Scientific Name</u>             |
|----------------------------|------------------------------------|
| <u>Threatened Mammals</u>  |                                    |
| Florida black bear         | <u>Ursus americanus floridanus</u> |
| <u>Threatened Birds</u>    |                                    |
| Florida sandhill crane     | <u>Grus canadensis pratensis</u>   |
| Least tern                 | <u>Sterna albifrons</u>            |
| <u>Threatened Reptiles</u> |                                    |
| Gopher tortoise            | <u>Gopherus polyphemus</u>         |
| <u>Endangered Plants</u>   |                                    |
| White birds-in-a-nest      | <u>Macbridea alba</u>              |
| Giant water-dropwort       | <u>Oxypolis greenmanii</u>         |
| Chapman's rhododendron     | <u>Rhododendron chapmanii</u>      |
| <u>Threatened Plants</u>   |                                    |
| Wiregrass gentian          | <u>Gentiana pennelliana</u>        |
| Godfrey's blazing-star     | <u>Liatris provincialis</u>        |
| Orange azalea              | <u>Rhododendron austrinum</u>      |
| White-top pitcherplant     | <u>Sarracenia leucophylla</u>      |
| Jackson-vine               | <u>Smilax smallii</u>              |
| Chapman's crownbeard       | <u>Verbesina chapmanii</u>         |

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Table EIR 50. Listing of endangered and threatened species in Okaloosa County (Miller 1980).

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| <u>Common Name</u>           | <u>Scientific Name</u>             |
|------------------------------|------------------------------------|
| <u>Threatened Mammals</u>    |                                    |
| Florida black bear           | <u>Ursus americanus</u> floridanus |
| <u>Endangered Birds</u>      |                                    |
| Red-cockaded woodpecker      | <u>Picoides borealis</u>           |
| <u>Threatened Reptiles</u>   |                                    |
| Gopher tortoise              | <u>Gopherus polyphemus</u>         |
| <u>Endangered Amphibians</u> |                                    |
| Pine barrens treefrog        | <u>Hyla andersonii</u>             |
| <u>Endangered Plants</u>     |                                    |
| Panhandle lily               | <u>Lilium iridollae</u>            |
| <u>Threatened Plants</u>     |                                    |
| Hairy wild-indigo            | <u>Baptisia hirsuta</u>            |
| Ashe's magnolia              | <u>Magnolia ashei</u>              |
| Orange azalea                | <u>Rhododendron austrinum</u>      |
| White-top pitcherplant       | <u>Sarracenia leucophylla</u>      |
| Jackson-vine                 | <u>Smilax smallii</u>              |
| Silky camellia               | <u>Stewartia malacodendron</u>     |

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Table EIR 51. Listing of endangered and threatened species in Santa Rosa County (Miller 1980).

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| <u>Common Name</u>         | <u>Scientific Name</u>             |
|----------------------------|------------------------------------|
| <u>Threatened Mammals</u>  |                                    |
| Florida black bear         | <u>Ursus americanus floridanus</u> |
| <u>Endangered Birds</u>    |                                    |
| Red-cockaded woodpecker    | <u>Picoides borealis</u>           |
| <u>Threatened Birds</u>    |                                    |
| Least tern                 | <u>Sterna albifrons</u>            |
| <u>Threatened Reptiles</u> |                                    |
| Gopher tortoise            | <u>Gopherus polyphemus</u>         |
| <u>Endangered Plants</u>   |                                    |
| Panhandle lily             | <u>Lilium iridollae</u>            |
| <u>Threatened Plants</u>   |                                    |
| Hairy wild-indigo          | <u>Baptisia hirsuta</u>            |
| Ashe's magnolia            | <u>Magnolia ashei</u>              |
| Orange azalea              | <u>Rhododendron austrinum</u>      |
| White-top pitcherplant     | <u>Sarracenia leucophylla</u>      |
| Jackson-vine               | <u>Smilax smallii</u>              |
| Silky camellia             | <u>Stewartia malacodendron</u>     |

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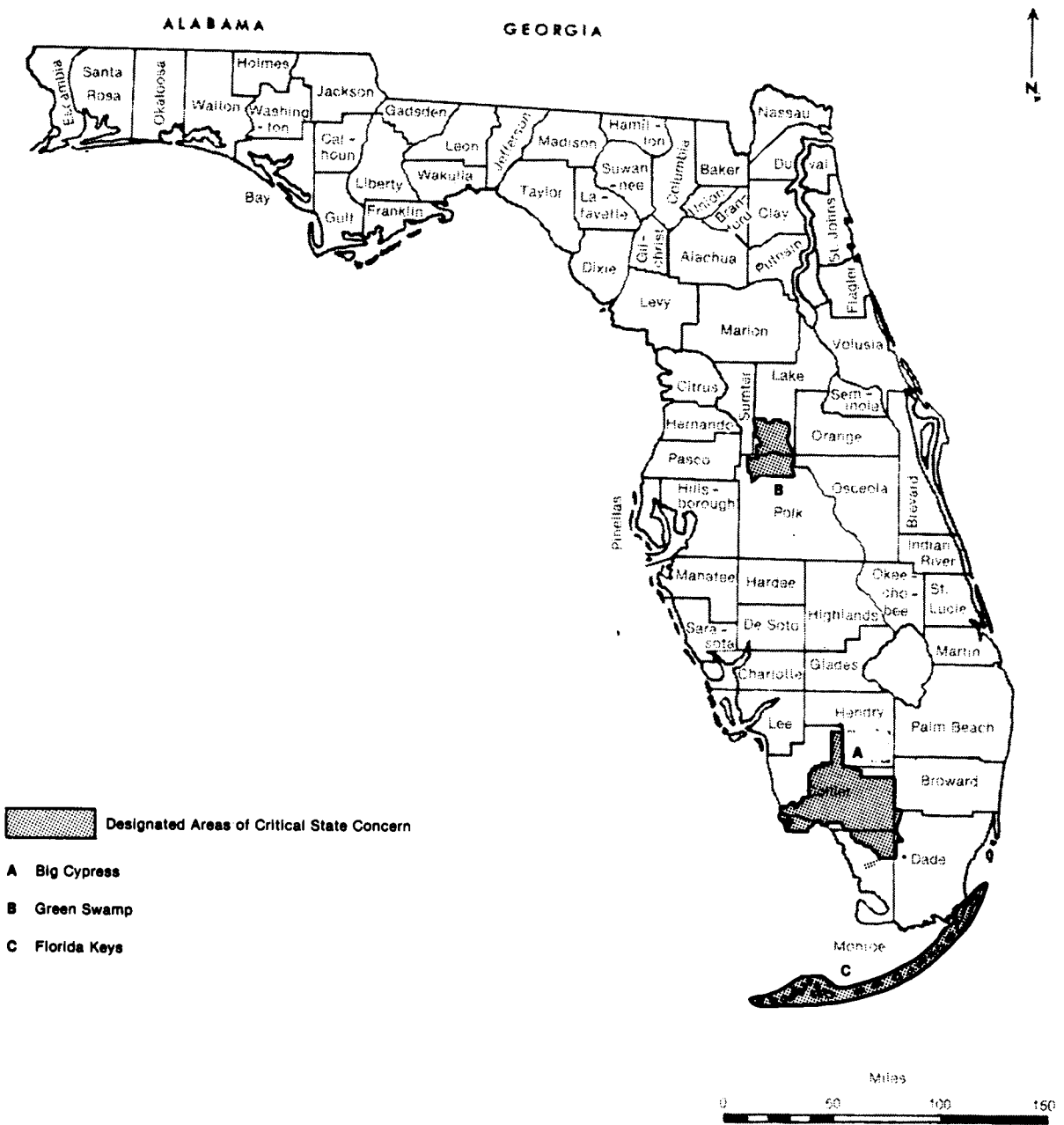


Figure 25. Areas of Critical State Concern (Florida Power and Light Co. 1979).



Table EIR 52. Listing of endangered and threatened species in Walton County (Miller 1980).

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| <u>Common Name</u>       | <u>Scientific Name</u>         |
|--------------------------|--------------------------------|
| <u>Endangered Plants</u> |                                |
| Panhandle lily           | <u>Lilium iridollae</u>        |
| Large-leaved jointweed   | <u>Polygonella macrophylla</u> |
| <u>Threatened Plants</u> |                                |
| Hairy wild-indigo        | <u>Baptisia hirsuta</u>        |
| Wiregrass gentian        | <u>Gentiana pennelliana</u>    |
| Ashe's magnolia          | <u>Magnolia ashei</u>          |
| Needle palm              | <u>Rhapidophyllum hystrix</u>  |
| Orange azalea            | <u>Rhododendron austrinum</u>  |
| White-top pitcherplant   | <u>Sarracenia leucophylla</u>  |
| Jackson-vine             | <u>Smilax smallii</u>          |
| Silky camellia           | <u>Stewartia malacodendron</u> |
| Chapman's crownbeard     | <u>Verbesina chapmanii</u>     |

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Table EIR 53. Identification of beach and river erosion problems (Florida Resources and Environmental Analysis Center 1978).

| Site                       | Location                                      | Description  |
|----------------------------|---|--|
| Beacon Hill                | Gulf County                                   | 2.5 mi serious erosion   |
| Carrabelle Beach           | Franklin County                               | 16.0 mi serious erosion  |
| Choctawhatchee Bay         | Walton County                                 | Estuarine beach erosion  |
| Crooked Island             | Bay County                                    | 6.0 mi severe beach erosion  |
| Dog Island                 | Center of Island, Franklin County             | 2.2 mi severe erosion  |
| East Point                 | Franklin County                               | 6.0 mi of erosion  |
| Fort Pickens National Park | Western Santa Rosa Island,<br>Escambia County | 3.0 mi severe erosion  |
| Gulf Breeze Peninsula      | Santa Rosa County                             | Beach erosion between Fair Point<br>and the mouth of Little East Bay |
| Inerarity Point            | Escambia County                               | Beach erosion along S.<br>shore of peninsula                         |
| Lighthouse Point           | Southern tip of SR-370,<br>Franklin County    | Severe beach erosion   |
| Panama City Beach          | Panama City, Bay County                       | 18.3 mi serious erosion  |
| Shell Island               | Bay County                                    | 6.0 mi of severe erosion   |
| Shell Point                | Wakulla County                                | 0.5 mi erosion   |
| St. George Island          | Franklin County                               | 6.1 mi severe erosion,<br>center of island                           |
| St. Joseph Spit            | Gulf County                                   | Serious erosion N. of<br>Cape San Blas                               |
| St. Theresa Beach          | Franklin County                               | 1.0 mi severe erosion  |

Continued

Table EIR 53. Concluded.

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| Site                                  | Location   | Description  |
|---------------------------------------|--|--|
| Carpenters Creek<br>Ochlockonee River | Pensacola, Escambia County<br>Ochlockonee State Park,<br>Franklin and Wakulla Counties | Erosion of stream bank<br>Boat wakes, wind and tides<br>causing severe erosion |

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Table EIR 54. Destruction of natural vegetation and habitat (Florida Resources and Environmental Analysis Center 1978).

| Site                                 | Location                                      | Description   |
|--------------------------------------|---|---|
| Avalon Beach, Coastal Marsh          | Garcon Point,<br>Santa Rosa County            | Marsh ecosystem undergoing development  |
| Burnt Mill Creek<br>Carpenters Creek | Bay County<br>Pensacola,<br>Escambia County   | Systematic clearcutting of natural vegetatopm<br>Filling of swamp, loss of cypress<br>and silverbell trees  |
| Crooked Creek<br>East River Island   | Bay County<br>Walton County                   | Systematic clearcutting of natural vegetation<br>Clearcutting of natural vegetation,<br>replacement by pine   |
| I-10                                 | Okaloosa-Walton,<br>County line               | Clearcutting of natural vegetation,<br>severe erosion   |
| Inerarity Island<br>Indian Swamp     | Escambia County<br>Gulf County                | Development, dune destruction, loss of habitat<br>Upper reaches of swamp being ditched, drained,<br>and clearcut, reduction of tupelo trees,<br>having adverse impacts upon bee/honey<br>industry |
| Panther Swamp                        | Gulf County                                   | Drainage and clearing of wetlands,<br>loss of habitat   |
| Santa Rosa Island                    | Navarre to Fort Pickens,<br>Santa Rosa County | Development, dune destruction, loss of habitat  |
| Tates Hell Swamp                     | Franklin and S.<br>Liberty Counties           | 300-mi <sup>2</sup> swamp undergoing extensive<br>drainage, channelization and conversion<br>to pines and/or pastureland  |
| Unnamed                              | Walton County                                 | Clearcutting of swamp forest and hardwood-<br>pine mix, replaced with slash pine  |

Table EIR 55. Aquatic plant problems and/or eutrophication (Florida Resources and Environmental Analysis Center 1978).

| Site                              | Location                                       | Description  |
|-----------------------------------|--|--|
| Deer Point Lake,<br>coastal marsh | Near Panama City,<br>Bay County                | High nitrate concentrations, low D.O. <sup>a</sup><br>due to aquatic plants and algae growth |
| Karick Lake                       | 9 mi N. of Baker on<br>SR-189, Okaloosa County | 58-acre lake with aquatic weed<br>problems   |
| Lake Locklin                      | Santa Rosa County                              | Over nutrification   |

<sup>a</sup> Dissolved oxygen.

Table EIR 56 Summary of U.S. Army Corps of Engineers projects in Northwest Florida (Northwest Florida Water Management District 1980; U.S. Army Corps of Engineers 1981).

| Location   | Description  | Date completed   | Cost/remarks   |
|--|--|--|--|
| Grand Lagoon,<br>Panama City                                 | Channels from Grand Lagoon to<br>St. Andrews Bay   | 1972   | \$128,000  |
| Gulf Intracoastal Water-<br>way, Carrabelle to<br>Mobile Bay | 12-ft x 125-ft channel from Carrabelle,<br>FL. to Mobile Bay, AL.  | 1969   | \$6,434,694  |
| Gulf Intracoastal Water-<br>way, Carrabelle to<br>St. Marks  | 12-ft x 125-ft channel from Carrabelle<br>via Carrabelle, Crooked and Ochlock-<br>onee Rivers, and Ochlockonee and<br>Apalachee bays | N.D.   | No construction<br>has been under-<br>taken, deferred<br>for restudy |
| LaGrange Bayou   | 12-ft x 100-ft channel 6 mi long<br>connecting Choctawhatchee Bay and<br>highway bridge across Four Mile<br>Creek (Freeport)         | 1963   | \$289,496  |
| Panacea Harbor   | 8-ft x 100-ft channel 3.7 mi long<br>connecting City of Panacea to<br>Apalachee Bay  | 1963   | \$129,383  |
| Panama City Harbor   | Several channels with turning basins,<br>anchorage basin, cut through Shell<br>Island and Jetties                                    | 1949<br>(overall project)<br>1961 (jetties<br>rebuilt) | \$485,189  |
| Pensacola Harbor   | Several channels connecting Intra-<br>coastal Waterway, Gulf of Mexico,<br>Lower Pensacola Bay, Muscogee<br>Wharf and Bayou Chico    | 1965   | \$875,005  |

Continued

Table EIR 56. Continued.

| Location                  | Description  | Date completed                                     | Cost/remarks |
|---------------------------|--|--|--------------|
| Port St. Joe Harbor       | Several channels with turning basin connecting City of Port St. Joe and Gulf of Mexico   | 1962   | \$1,980,862  |
| St. Marks River           | Several channels with turning basin connecting Newport, St. Marks and the Gulf of Mexico, total length 12 mi   | 1964   | \$1,710,809  |
| Apalachicola Bay          | Channels connecting Intracoastal Waterway, Apalachicola and Gulf of Mexico via cut through St. George Island. Also, breakwaters near mouth of Apalachicola River | 1959<br>(overall project)<br>1975<br>(breakwaters) | \$964,400    |
| Jim Woodruff Lock and Dam | Lock and dam and reservoir with power generating facility  | 1957   | \$49,306,758 |
| Blackwater River          | 9-ft x 100-ft channel 12 mi long connecting City of Milton and East Bay  | 1916   | \$36,650     |
| Carrabelle Bay and Harbor | Several different sizes of channels totaling 13.6 mi connecting Crooked River, City of Carrabelle and Gulf of Mexico   | 1965   | \$481,627    |
| Choctawhatchee River      | Maintenance of navigable channel from Geneva, AL to mouth of Chactawhatchee River, 96 mi   | Authorized<br>June 1874<br>Completed               | \$171,885    |

Continued

Table EIR 56. Concluded.

| Location                             | Description   | Date completed   | Cost/remarks |
|--------------------------------------|---|--|--------------|
| East Pass Channel<br>Okaloosa County | 12-ft x 180-ft channel from<br>Choctawhatchee Bay to the<br>Gulf of Mexico with jetties   | 1951 (channel)<br>1969 (jetties)                           | \$916,715    |
| Escambia and Conecuh<br>Rivers       | Channels from Andalusia, AL<br>to mouth of Escambia River   | 1882 (from state<br>line to mile 7)<br>1960 (below mile 7) | \$137,324    |
| Holmes Creek                         | Navigable channel 25 mi long<br>from the mouth to Vernon, FL  | no date<br>(inactive)                                      | \$8,562      |
| Upper Chipola River                  | Navigable channel 55 mi long<br>from the foot of Dead Lake.<br>to Marianna, FL  | 75% complete   | \$36,781     |
| Apalachicola River                   | A continuous 9-ft x 100-ft channel<br>from the intersection of the<br>Gulf Intracoastal Waterway<br>to the confluence of the<br>Chattahoochee and Flint Rivers,<br>104 mi | N.D.   | N.D.         |



Table EIR 57. Status of developments of Regional Impact (DRI) for 1973, 1974, 1975, 1976, 1977, 1978, 1979, and 1980<sup>a</sup> (Florida Department of Community Affairs 1980b).

| County     | Name   | Type of development                            | Determination                                    |
|------------|--|--|--|
| 1973       |  |  |  |
| Okaloosa   | Gulf-Tex Properties, Inc.<br>Shopping center for Destin, FL  | Residential<br>Shopping center                 | DRI 8-2-73<br>DRI 10-11-73                       |
| 1974       |  |  |  |
| Bay        | Guy Rogers Marine<br>Gulf Coast Community Hospital   | Port facility<br>Hospital                      | Not a DRI<br>DRI                                 |
| Escambia   | Pensacola Greyhound Racing<br>Diamondhead Perdido Key  | Attractions<br>Residential                     | Not a DRI<br>Not a DRI                           |
| Okaloosa   | Laguna Beach to Destin<br>transmission line  | Transmission line                              | DRI  |
| Walton     | Juniper Lake Estates   | Residential                                    | DRI  |
| 1975       |  |  |  |
| Escambia   | Regional Office Center<br>Innerarity Island<br>Pensacola-Escambia Governmental Center<br>Belevedere Park, Unit 7 | Office<br>Residential<br>Office<br>Residential | Not a DRI<br>Not a DRI<br>Not a DRI<br>Not a DRI |
| Santa Rosa | Pensacola Jr College West Campus<br>Navarre Pass   | School<br>Canal                                | DRI<br>Not a DRI                                 |

Continued

Table EIR 57. Concluded.

| County   | Name   | Type of development                 | Determination    |
|----------|--|-------------------------------------|------------------|
| 1976     |  |                                     |                  |
| Escambia | Pensacola Regional Airport                               | Airport                             | DRI              |
| Gulf     | Unnamed residential                                      | Residential                         | DRI              |
| Walton   | Lake Juniper Estates                                     | Residential                         | No determination |
|          | Industrial Park  | Airport, industry                   | DRI              |
| 1977     |  |                                     |                  |
| Escambia | Belcher Oil Co.  | Petroleum storage                   | DRI              |
| Okaloosa | Century III Civic Convention Center                      | Attractions                         | Not a DRI        |
| 1978     |  |                                     |                  |
| Bay      | Pretty Bayou Tract                                       | Residential                         | Not a DRI        |
| 1979     |  |                                     |                  |
| Bay      | Hi Octane Terminal                                       | Petroleum storage                   | Not a DRI        |
| 1980     |  |                                     |                  |
| Bay      | University of West Florida,<br>Panama City Branch Campus | School                              | Not a DRI        |
| Escambia | Pitts Slip Marina  | Port facility                       | Not a DRI        |
|          | Ellyson Progress Park and Job<br>Opportunity Center      | Attractions, industry and<br>office | DRI              |
|          | Bayou Chico Marina                                       | Port facility                       | DRI              |

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<sup>a</sup> As of 10 October 1980.

Table EIR 58. Developments of Regional Impact (DRI), type, size, and status for fiscal years 1973-74, 1974-75, 1975-76, 1976-77, 1977-78 and 1978-79 as of 10 October 1980 (Florida Department of Community Affairs 1980b).

| County     | Name                                 | Type             | Size                             | Status                   |
|------------|--------------------------------------|------------------|----------------------------------|--------------------------|
| FY 1973-74 |                                      |                  |                                  |                          |
| Gulf       | Cape San Blas Marina                 | Residential Port | 10,000 d.u. <sup>a</sup><br>N.D. | 90-day notice expired    |
| Okaloosa   | unnamed                              | Shopping         | 400,000 ft <sup>2</sup>          | 90-day notice expired    |
|            | Santa Rosa Mall                      | Shopping         | 494,409 ft <sup>2</sup>          | Approved with conditions |
| Walton     | Oakwood Estates Unit 5               | Residential      | 302 d.u.                         | To be submitted          |
|            | Oakwood Estates Unit 7               | Residential      | 7,290 d.u.                       | Pending                  |
|            | Sandestin                            | Residential      | 8,000 d.u.                       | Approved with conditions |
| FY 1974-75 |                                      |                  |                                  |                          |
| Bay        | Venture Bay Resort                   | Residential      | 1,000 D.U. <sup>2</sup>          | Withdrawn                |
|            | Panama City Mall                     | Shopping         | 690,000 ft <sup>2</sup>          | Approved with conditions |
| Franklin   | Villages of St. George               | Residential      | 3,000 d.u.                       | Withdrawn                |
| Gulf       | Christie's Beach                     | Residential      | 316 d.u.                         | 90-day notice expired    |
|            | St. Joseph Bay Estates               | Residential      | 2,000 d.u.                       | To be submitted          |
| Walton     | Grayton Dunes                        | Residential      | 3,343 d.u.                       | Approved                 |
| FY 1975-76 |                                      |                  |                                  |                          |
| Escambia   | Pensacola Junior College West Campus | School           |                                  | Approved                 |
| Okaloosa   | Raintree Inter City Bank             | Residential      | 806 d.u.                         | Approved with conditions |

Continued

Table EIR 58. Concluded.

| County     | Name                                     | Type        | Size                  | Status                   |
|------------|--|-------------|-----------------------|--------------------------|
| FY 1976-77 |  |             |                       |                          |
| Franklin   | St. Georges Plantation                   | Residential | 831 d.u.              | Approved with conditions |
| Okaloosa   | Blue Water                               | Residential | 5,579 d.u.            | Approved with conditions |
| FY 1978-79 |  |             |                       |                          |
| Bay        | Whitaker Oil Terminal expansion          | Oil         | 490 tbb1 <sup>b</sup> | Approved with conditions |
| Escambia   | Relocate tankage port Pensacola Terminal | Oil         | 155 tbb1              | Approved with conditions |

<sup>a</sup> Dwelling units.  
<sup>b</sup> Thousand barrels.

Table EIR 59. Location of permanent network stations<sup>a</sup> in northwest Florida (Florida Department of Environmental Regulation, Bureau of Water Management 1979c).

|                          |                | Streams                 |                |
|--------------------------|----------------|-------------------------|----------------|
| Northwest area           | Station Number | Northcentral area       | Station Number |
| Apalachicola River       | 31010022       | Dunns Creek             | 20030212       |
| Aucilla River            | 22040002       | Oklawaha River mid      | 20020001       |
| Balckwater River         | 33030001       | Oklawaha River          | 20020012       |
| Chipola River            | 31020012       | Oklawaha River low      | 20020071       |
| Choctawhatchee River up  | 32020001       | Ortega River            | 20020079       |
| Choctawhatchee River mid | 32020007       | Santa Fe River          | 21030004       |
| Escambia River up        | 33020001       | St. Johns River mid     | 20030213       |
| Escambia River low       | 33020009       | St. Johns River low     | 20010002       |
| Ochlocknee River         | 22020006       | St. Marys River up      | 19010002       |
| Perdido River            | 33010003       | St. Marys River low     | 19010001       |
| Yellow River             | 33040004       | Suwanee River up        | 21020006       |
|                          |                | Suwanee River mid       | 21020035       |
|                          |                | Suwanee River low       | 21020031       |
|                          |                | Tomoka River            | 27010023       |
|                          |                | Withlacoochee River up  | 23010455       |
|                          |                | Withlacoochee River mid | 23010038       |
|                          |                | Withlacoochee River low | 23010030       |

|                    |                | Estuaries         |                |
|--------------------|----------------|-------------------|----------------|
| Northwest area     | Station Number | Northcentral area | Station Number |
| Apalachicola Bay   | 31010C33       | Amelia River up   | 19020005       |
| Choctawhatchee Bay | 32010I14       | Amerlia River     | 19020013       |
| East Bay           | 33030C30       | Halifax River     | 27010037       |
| Escambia Bay       | 33020C11       | Matanzas River    | 27010097       |
| Perdido Bay        | 330100C6       | St. Johns River   | 20030002       |
| St. Andrew Bay     | 32020J14       |                   |                |
| St. Joseph Bay     | 32030W41       |                   |                |

|               |                | Lakes        |                |
|---------------|----------------|--------------|----------------|
| Northwest     | Station Number | Northcentral | Station Number |
| Lake Seminole | 31010007       | Lake George  | 20030373       |

<sup>a</sup> Established in 1973 for the purpose of monitoring water quality in Florida's lakes, streams, and estuaries.

Table EIR 60. Sewage treatment capacity needs and costs through the year 2000 (Department of Environmental Regulation, Office of Economic Analysis 1981d).

| County     | Population <sup>a</sup><br>growth rate<br>(percent) | Growth in<br>design capital<br>(Mgal/d) | Number of<br>facilities <sup>b</sup><br>expected | Single <sup>b</sup> plants<br>capital costs<br>(\$ millions) | Estimated total <sup>c</sup><br>capital costs<br>(\$ millions) |
|------------|---|---|--|--|--|
| Bay        | 2.50  | 3.99                                    | 28   | 6.21   | 17.14  |
| Escambia   | 2.10  | 9.41                                    | 20   | 11.29  | 27.89  |
| Franklin   | 2.50  | 0.55                                    | 6  | 1.57   | 2.66   |
| Gulf       | 2.50  | 0.13                                    | 1  | 0.57   | 0.49   |
| Okaloosa   | 2.10  | 5.55                                    | 11   | 7.82   | 16.13  |
| Santa Rosa | 2.10  | 1.49                                    | 8  | 3.13   | 5.83   |
| Walton     | 2.50  | 0.61                                    | 5  | 1.68   | 2.76   |
| Region     | N.D.  | 21.73                                   | 79   | 32.27  | 72.90  |
| Florida    | N.D.  | 1,366.82                                | 4,243  | 936.04   | 4,007.72   |

<sup>a</sup> University of Florida Bureau of Economic and Business Research, Population Divisions forecast.

<sup>b</sup> Assumes historical mean for each county.

<sup>c</sup> Assumes that total capacity as one plant using EPA construction costs curve (cost = 1.77 (design).696) in 1981 dollars.

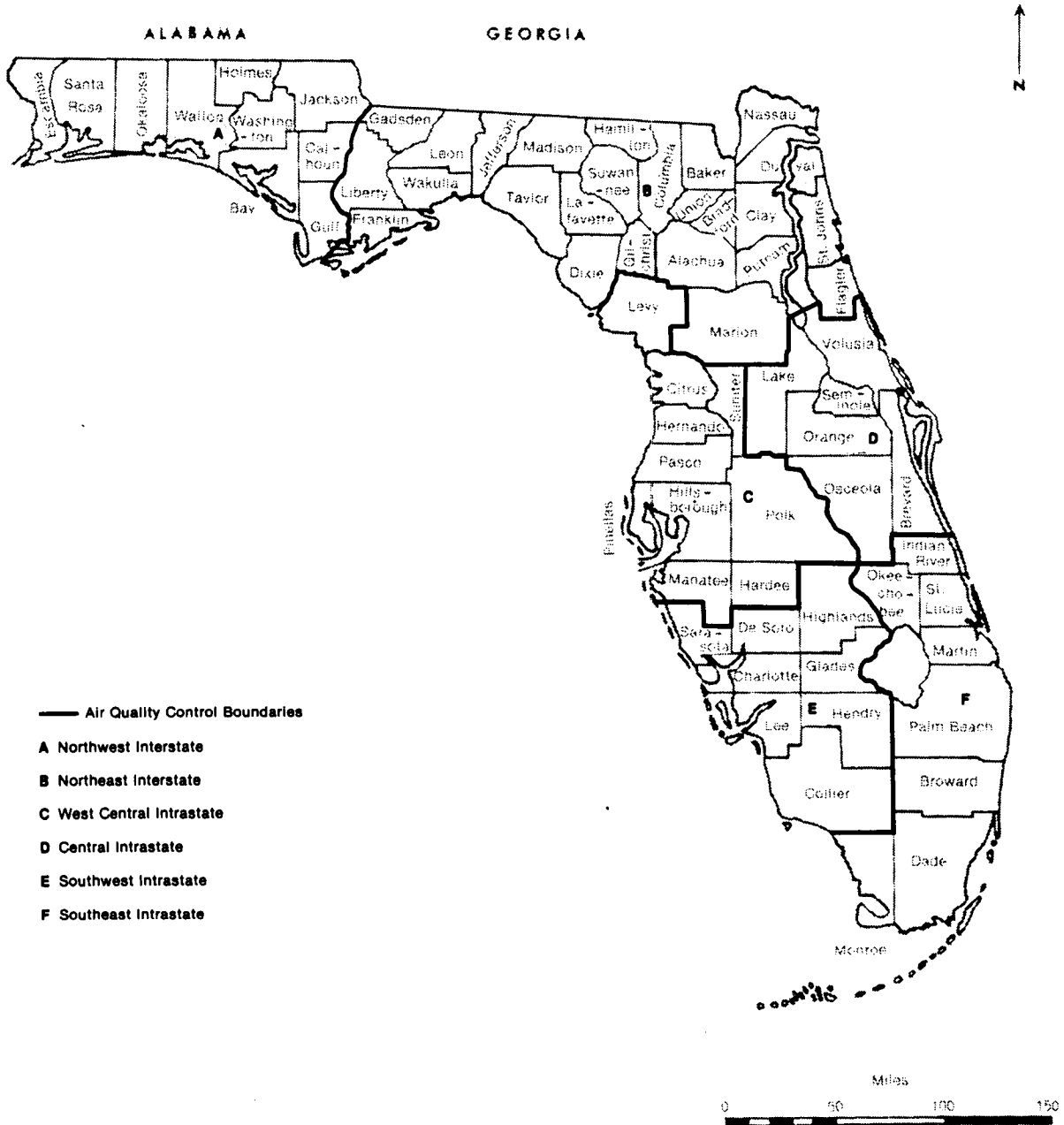


Figure 26. Federal air quality control regions (Florida Power and Light Co. 1979).

Table EIR 61. National and Florida ambient air quality standards<sup>a</sup>  
 (Florida Department of Environmental Regulation, Bureau of Air Quality  
 Management 1980e).

| Pollutant                                 | Time frame                                | Primary standards                                | Secondary standards <sup>b</sup>                 | Florida standards   |
|---|---|--|--|---|
| Particulate matter                        | annual<br>(geometric mean <sup>c</sup> )  | 75 ug/m <sup>3</sup> <sup>c</sup>                | 60 ug/m <sup>3</sup>                             | 60 ug/m <sup>3</sup>  |
|   | 24-hour                                   | 260 ug/m <sup>3</sup>                            | 150 ug/m <sup>3</sup>                            | 150 ug/m <sup>3</sup>   |
| Sulfur oxides                             | annual<br>(arithmetic mean <sup>d</sup> ) | 80 ug/m <sup>3</sup>                             | 150 ug/m <sup>3</sup>                            | 150 ug/m <sup>3</sup>   |
|   | 24-hour                                   | (0.03 ppm) <sup>e</sup><br>365 ug/m <sup>3</sup> | (.02 ppm) <sup>3</sup><br>260 ug/m <sup>3</sup>  | (0.02 ppm)<br>260 ug/m <sup>3</sup>                           |
|   | 3-hour <sup>b</sup>                       | (0.14 ppm)                                       | (0.1 ppm) <sup>3</sup><br>1300 ug/m <sup>3</sup> | (0.1 ppm) <sup>3</sup><br>1300 ug/m <sup>3</sup><br>(0.5 ppm) |
| Carbon monoxide                           | 8-hour <sup>b</sup>                       | 10 ug/m <sup>3</sup>                             | (same as primary)                                | (same as primary)   |
|   | 1-hour <sup>b</sup>                       | (9 ppm) <sup>3</sup><br>100 ug/m <sup>3</sup>    | (same as primary)                                | (same as primary)   |
| Nitrogen dioxide <sup>f</sup>             | annual<br>(arithmetic mean)               | 100 ug/m <sup>3</sup>                            | (same as primary)                                | (same as primary)   |
| Photochemical oxidants <sup>g</sup>       | 1-hour <sup>b</sup>                       | 235 ug/m <sup>3</sup>                            | (same as primary)                                | 160 ug/m <sup>3</sup><br>(0.08 ppm)                           |
| Hydrocarbons <sup>h</sup><br>(nonmethane) | 3-hour<br>(6 to 9 a.m.)                   | 160 ug/m <sup>3</sup>                            | (same as primary)                                | (same as primary)   |
|   |   | (0.24 ppm)                                       |  |   |

<sup>a</sup>The air quality standards and a description of the Federal Reference Methods (FRM) were published on April 30, 1971, in 42 CFR 410, recodified to 40 CFR 50 on November 25, 1972. The new FRM for nitrogen dioxide was published on December 1, 1976, as 40 CFR 50.

<sup>b</sup>Not to be exceeded more than once a year.

<sup>c</sup>Geometric mean is a measure of central tendency. It is the nth root of the product of n individual data values recorded during the given period.

<sup>d</sup>Arithmetic mean is the most common measure of the central tendency. It is the sum of the data collected during the given period divided by the number of observations in the same period.

<sup>e</sup>Parts per million.

<sup>f</sup>Chemiluminescence has been established as the FRM and the sodium arsenite and triethanolamine guaiacol sulfite (TGS) methods have been identified as equivalent methods.

<sup>g</sup>The FRM measures O<sub>3</sub> (ozone).

<sup>h</sup>The hydrocarbon HC standard is a guide to devising State implementation plans to achieve the oxidant standard. The HC standard does not have to be met if the oxidant standard is met.



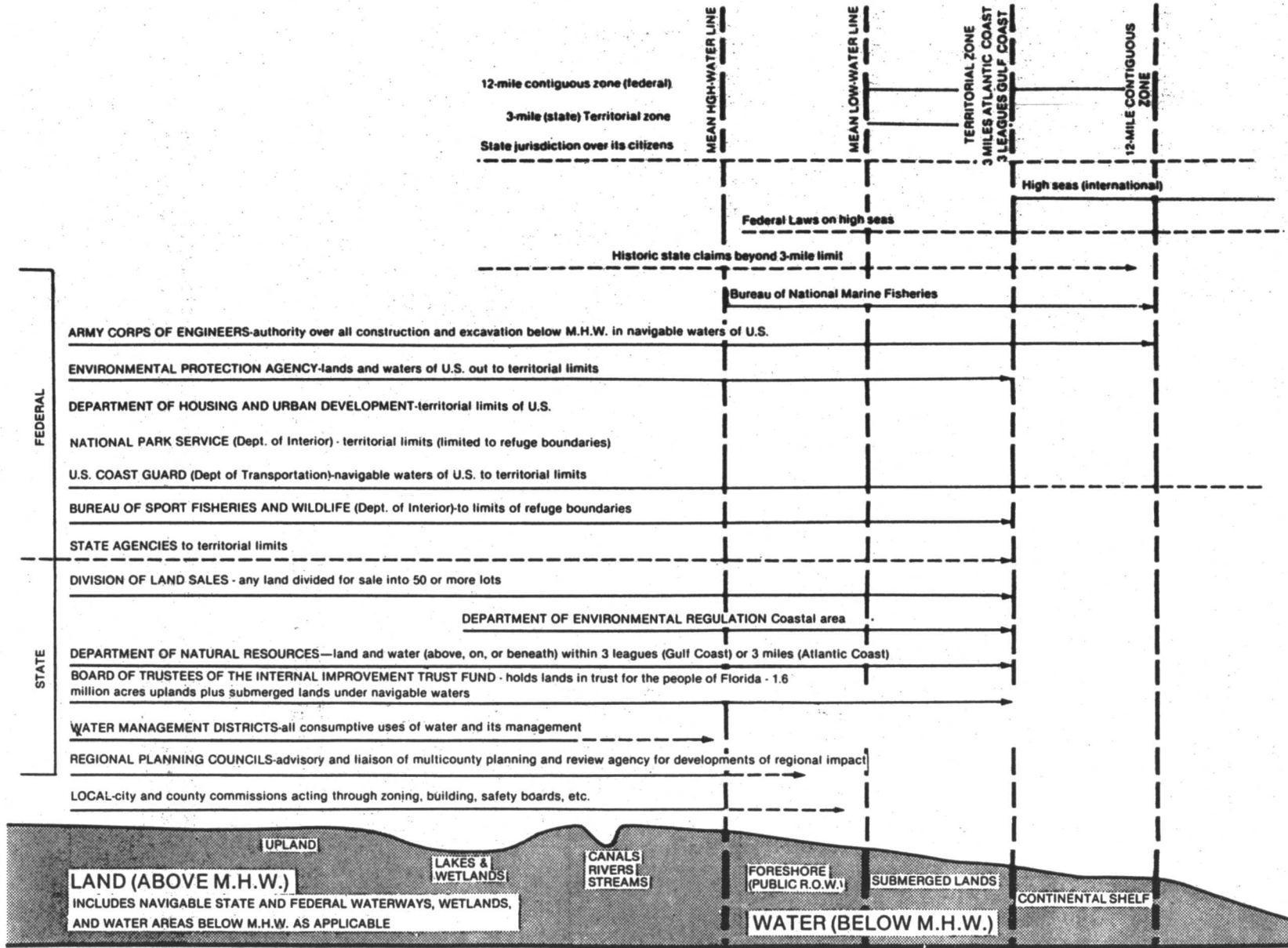


Figure 27. Jurisdictional agency interrelationships in coastal areas (Veri et al. 1975).

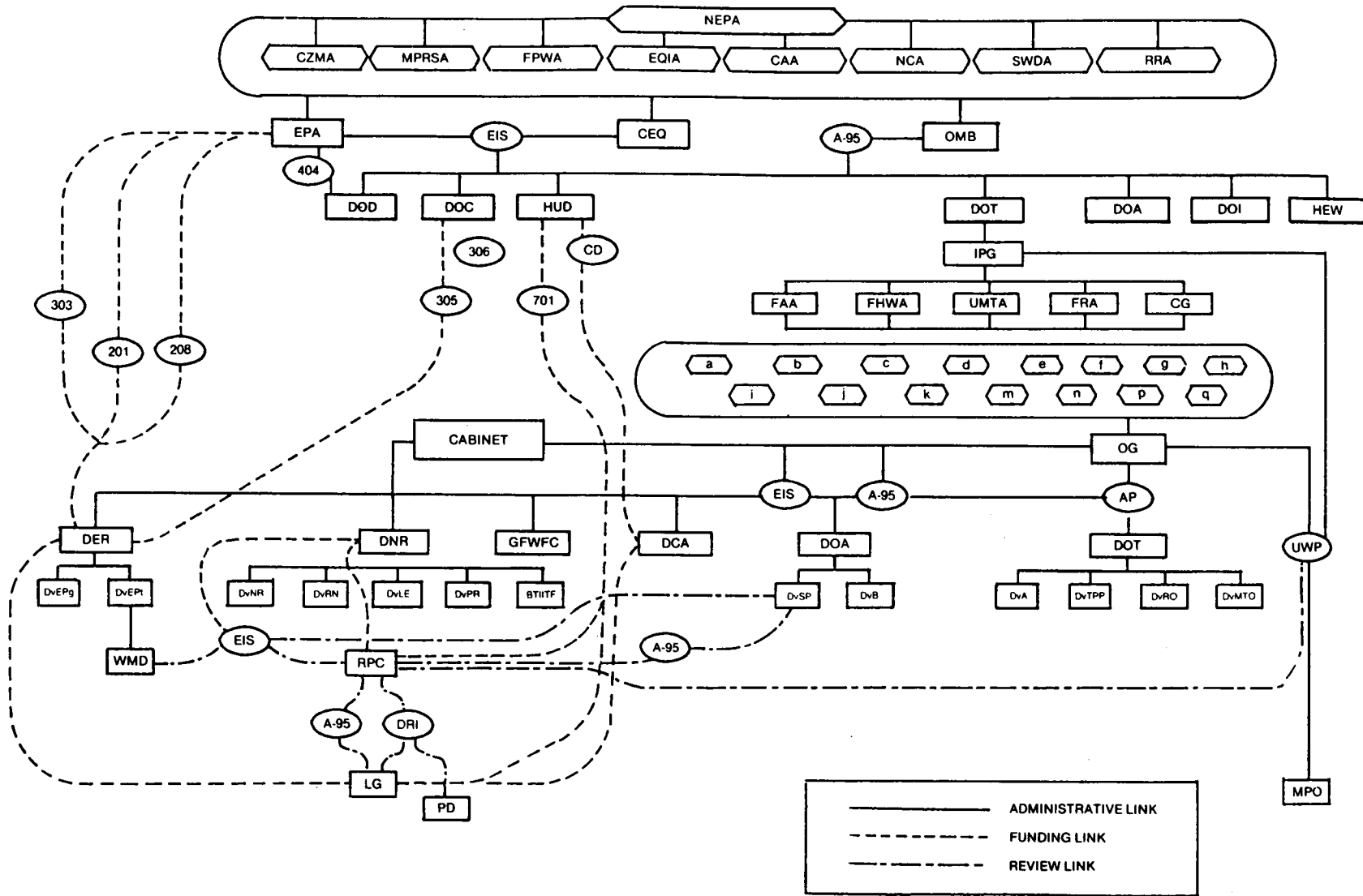


Figure 28. Interrelationships of agencies in the environmental review process in transportation planning (South Florida Regional Planning Council 1977) Continued.

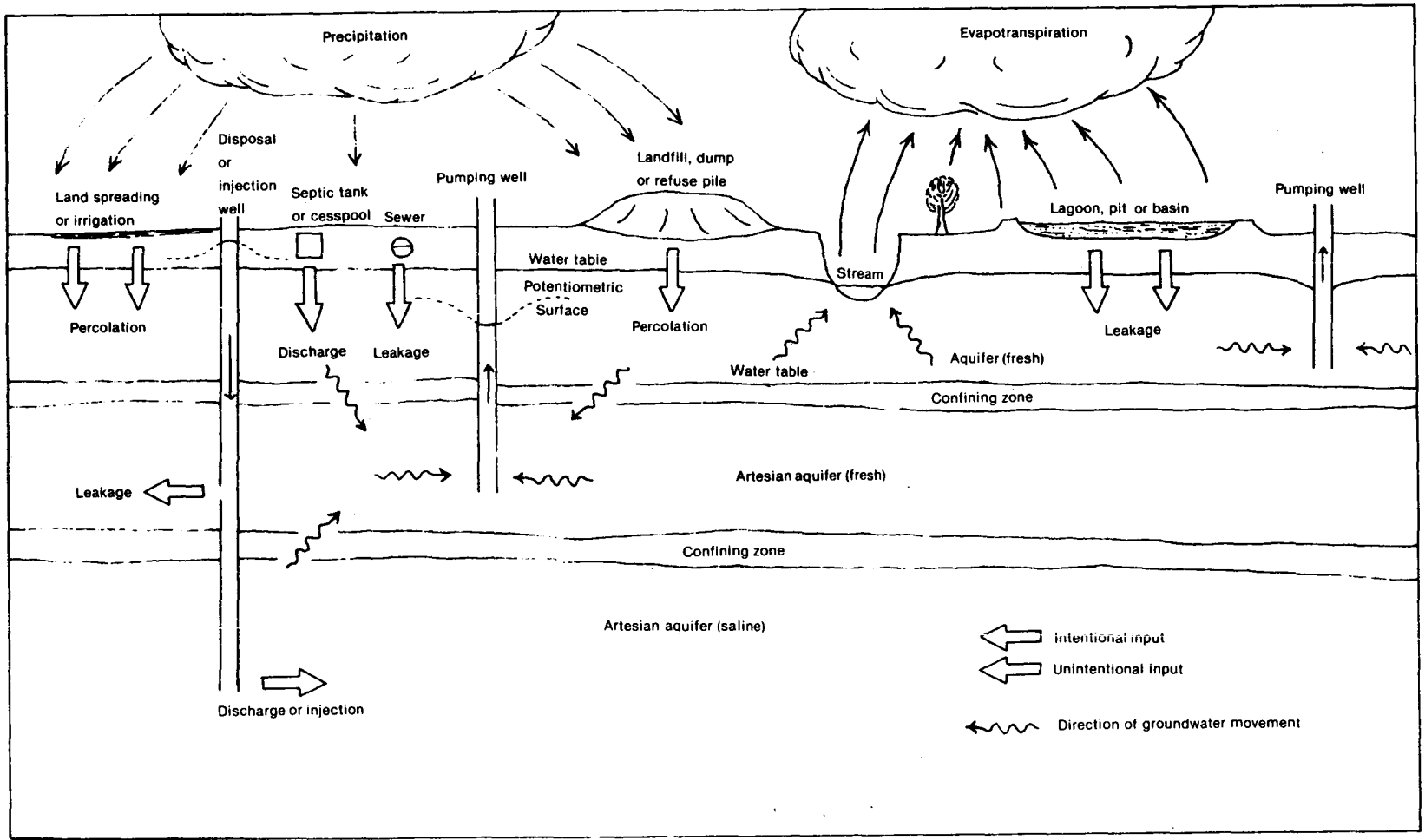


Figure 29. Contamination of the groundwater system by waste disposal practices (Environmental Protection Agency 1977)

 **FEDERAL ENVIRONMENTAL LAWS**

|       |   |
|-------|---|
| NEPA  | National Environmental Policy Act of 1969                   |
| EQIA  | Environmental Quality Improvement Act of 1970               |
| FWPA  | The Federal Water Pollution Act Amendments of 1972          |
| CAA   | The Clean Air Act   |
| NCA   | Noise Control Act of 1972                                   |
| CZMA  | Coastal Zone Management Act of 1972                         |
| MPRSA | The Marine Protection, Research and Sanctuaries Act of 1972 |
| SWDA  | Solid Waste Disposal Act, 1965                              |
| RRRA  | Resource Recovery Act of 1970                               |

 **FEDERAL AGENCIES**

|      |  |
|------|--|
| EPA  | Environmental Protection Agency                      |
| CEQ  | Council on Environmental Quality                     |
| OMB  | Office of Management and Budget                      |
| HUD  | Department of Housing and Urban Development          |
| DOC  | Department of Commerce                               |
| DOD  | Department of Defense (U.S. Army Corps of Engineers) |
| DOT  | Department of Transportation                         |
| IPG  | Intermodal Planning Group                            |
| DOA  | Department of Agriculture                            |
| DOI  | Department of Interior                               |
| HEW  | Department of Health, Education and Welfare          |
| FAA  | Federal Aviation Administration                      |
| FRA  | Federal Railroad Administration                      |
| FHWA | Federal Highway Administration                       |
| UMTA | Urban Mass Transit Administration                    |
| CG   | Coast Guard  |

 **FLORIDA ENVIRONMENTAL LAWS**

|   |  |
|---|--|
| a | Florida Air and Water Pollution Control Act                                  |
| b | The Environmental Protection Act of 1971                                     |
| c | Oil Spill Prevention and Pollution Control                                   |
| d | Florida Electrical Power Plant Siting Act                                    |
| e | The Florida Litter Law of 1971   |
| f | State Bond Program and Sewage Treatment Revolving Loan Program               |
| g | Trustees of the Internal Improvement Trust Fund                              |
| h | Land Conservation Act of 1975  |
| i | Environmental Reorganization Act of 1975                                     |
| j | Resource Recovery and Management Act   |
| k | Florida Water Resources Act of 1972  |
| m | Florida Water Pollution Control and Sewage Treatment Plant Grant Act of 1970 |
| n | The Florida Environmental Land and Water Management Act of 1972              |
| p | Florida State Comprehensive Planning Act of 1972                             |
| q | Local Government Comprehensive Planning Act of 1975                          |

 **REVIEW PROCESSES**

|      |                                |
|------|--------------------------------|
| EIS  | Environmental Impact Statement |
| A-95 | Clearinghouse Review           |
| DRI  | Development of Regional Impact |
| UWP  | Unified Work Program           |
| AP   | Action Plan                    |

 **FLORIDA AGENCIES**

|       |  |
|-------|--|
| DER   | Department of Environmental Regulation   |
| DvEPg | Division of Environmental Programs   |
| DvEPt | Division of Environmental Permitting   |
| WMD   | Water Management District  |
| DCA   | Department of Community Affairs  |
| GFWFC | Game and Freshwater Fish Commission  |
| DNR   | Department of Natural Resources  |
| BTITF | Board of Trustees of the Internal Improvement Trust Fund (Division of State Lands) |
| DvMR  | Division of Marine Resources   |
| DvRN  | Division of Resource Management  |
| DvLe  | Division of Law Enforcement  |
| DvPR  | Division of Parks and Recreation   |
| DOA   | Department of Administration   |
| DvSP  | Division of State Planning   |
| DvB   | Division of Budget   |
| DOT   | Department of Transportation   |
| DvA   | Division of Administration   |
| DvTPP | Division of Transportation Planning and Programing                                 |
| DvRO  | Division of Road Operations  |
| DvMTO | Division of Mass Transit Operations  |
| OG    | Office of the Governor   |

**CABINET**

Secretary of State  
Attorney General  
Comptroller  
Treasurer  
Commissioner of Agriculture  
Commissioner of Education

 **LOCAL AND REGIONAL AGENCIES**

|     |                                    |
|-----|------------------------------------|
| RPC | Regional Planning Council          |
| LG  | Local Government Agencies          |
| MPO | Metropolitan Planning Organization |
| PD  | Private Developer                  |

Figure 29. Concluded.

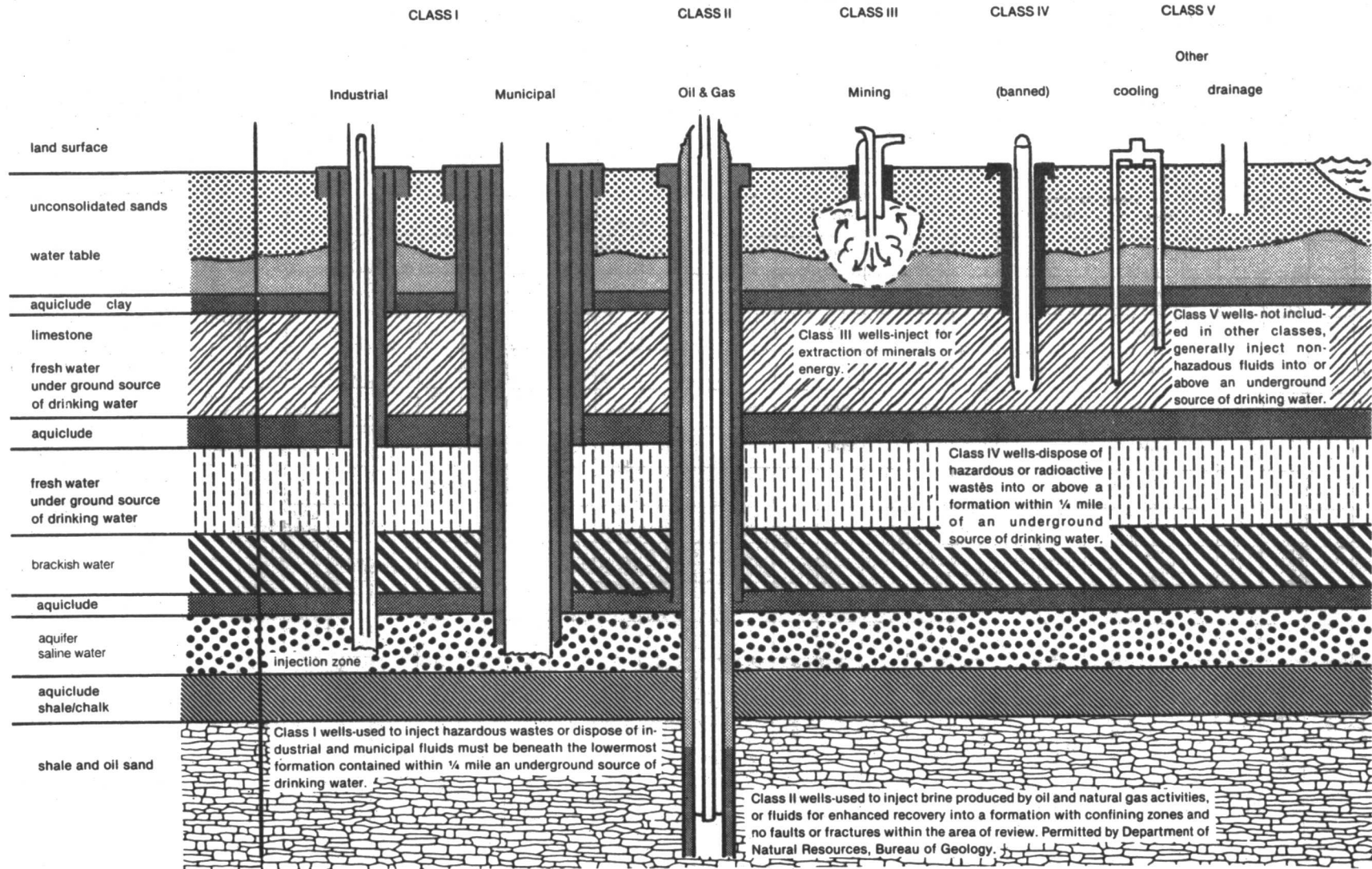


Figure 30. Underground injection control program classification of wells (Florida Department of Environmental Regulation 1981d).

| PERMITTING AND PROJECT REVIEW PROGRAMS          |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
|---|-----------------|-------------------------|---|-------------------------------|----------------------------------|-----------------------------|---------------------------|----------------------------|-------------|--|----------------------|-------------------------------------|-------------------|-------------------------|-------------|--------------|---|--|----------------------------|---------------------------------------|-----------------------------------|-----------------------|--------------------|--------------------------------|--------------------|----------------|--------------------------------|
| LAND AND WATER DEVELOPMENT ACTIVITIES           | Dredge and Fill | Water Pollution Sources | National Pollutant Discharge Elimination System | Public Drinking Water Systems | Private and Public Water Systems | Well Drilling and Use (DER) | Solid and Hazardous Waste | Individual Sewage Disposal | Air Quality | Power Plant and Transmission Line Siting | Coastal Construction | Transfer of Pollutants & Oil Spills | Oil and Gas Wells | Mined Lands Reclamation | State Lands | Open Burning | Protection of Historic Sites & Properties | Reg. of Subdivided Lands Condos & Co-ops | Consumptive Uses of Water. | Management & Storage of Surface Water | Water Wells & Artificial Recharge | Works of the District | A-95 Clearinghouse | Environmental Impact Statement | 10-Year Site Plans | Critical Areas | Development of Regional Impact |
|   |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Air pollution sources                           |                 |                         |   |                               |                                  |                             |                           |                            | DER         |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Airports  |                 |                         |   | DER                           |                                  |                             |                           |                            | DER         |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    | DOA                            |                    |                | DVCA                           |
| Amusement & recreation facilities               |                 |                         |   | DER                           |                                  |                             |                           |                            | DER         |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                | DVCA                           |
| Animal & poultry confinement feeding facilities |                 | DER                     | EPA DER   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Artificial recharge                             |                 |                         |   |                               |                                  | DER                         |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |
| Barricades & fences in wetlands                 | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              |   |  |                            |                                       |                                   |                       | WMD                |                                |                    |                |                                |
| Beach restoration                               | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   |                       |                    | DOA                            |                    |                |                                |
| Boat basins                                     | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   |                       | WMD                |                                |                    |                | DVCA                           |
| Boat ramps                                      | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   |                       | WMD                |                                |                    |                |                                |
| Boat slips                                      | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   |                       | WMD                |                                |                    |                | DVCA                           |
| Breakwaters                                     |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              |   |  |                            |                                       |                                   |                       | WMD                |                                |                    |                |                                |
| Bridges   | DER CG          |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |
| Bulkheads, shoreline                            | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   |                       | WMD                |                                |                    |                |                                |
| Burning, open                                   |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             | DACS DER     |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Cables, overhead                                | COE CG          |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       | WMD                |                                |                    |                |                                |
| Cables subaqueous                               | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   |                       | WMD                |                                |                    |                |                                |

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.

PERMITTING AND PROJECT REVIEW PROGRAMS

| LAND AND WATER DEVELOPMENT ACTIVITIES              | Dredge and Fill | Water Pollution Sources | National Pollutant Discharge Elimination System | Public Drinking Water Systems | Private and Public Water Systems | Well Drilling and Use (DER) | Solid and Hazardous Waste | Individual Sewage Disposal | Air Quality | Power Plant and Transmission Line Siting | Coastal Construction | Transfer of Pollutants & Oil Spills | Oil and Gas Wells | Mined Lands Reclamation | State Lands | Open Burning | Protection of Historic Sites & Properties | Reg. of Subdivided Lands Condos & Co-ops | Consumptive Uses of Water. | Management & Storage of Surface Water | Water Wells & Artificial Recharge | Works of the District | A-95 Clearinghouse | Environmental Impact Statement | 10-Year Site Plans | Critical Areas | Development of Regional Impact |
|--|-----------------|-------------------------|---|-------------------------------|----------------------------------|-----------------------------|---------------------------|----------------------------|-------------|--|----------------------|-------------------------------------|-------------------|-------------------------|-------------|--------------|---|--|----------------------------|---------------------------------------|-----------------------------------|-----------------------|--------------------|--------------------------------|--------------------|----------------|--------------------------------|
| Canals, construction and connection                | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |
| Canals, maintenance                                | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              |   |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |
| Canals, navigation                                 | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              |   |  |                            |                                       |                                   |                       |                    |                                | DOA                |                |                                |
| Channels   | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              |   |  |                            |                                       |                                   |                       |                    |                                | DOA                |                |                                |
| Clearing of land                                   |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             | DER<br>DACS  | DOS                                       |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Compactor  |                 |                         |   |                               |                                  |                             | DER                       |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Consumptive use of water                           |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  | WMD                        |                                       |                                   |                       |                    |                                |                    |                |                                |
| Construction, wetlands                             | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |
| Construction, coastline                            | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Dams and weirs                                     | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |
| Deep well injection                                |                 | DER                     |   |                               |                                  | DER                         |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            |                                       | WMD                               |                       |                    |                                |                    |                |                                |
| Dikes  | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |
| Discharge of wastes into surface and ground waters |                 | DER                     | EPA<br>DER                                      |                               |                                  | DER                         |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       | WMD                               | WMD                   |                    |                                |                    |                |                                |
| Ditches  | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |
| Dock   | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |
| Drainage wells                                     |                 | DER                     |   |                               |                                  | DER                         |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       | WMD                               |                       |                    |                                |                    |                |                                |

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.

| PERMITTING AND PROJECT REVIEW PROGRAMS    |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
|---|-----------------|-------------------------|---|-------------------------------|----------------------------------|-----------------------------|---------------------------|----------------------------|-------------|--|----------------------|-------------------------------------|-------------------|-------------------------|-------------|--------------|---|--|----------------------------|---------------------------------------|-----------------------------------|-----------------------|--------------------|--------------------------------|--------------------|----------------|--------------------------------|
| LAND AND WATER DEVELOPMENT ACTIVITIES     | Dredge and Fill | Water Pollution Sources | National Pollutant Discharge Elimination System | Public Drinking Water Systems | Private and Public Water Systems | Well Drilling and Use (DER) | Solid and Hazardous Waste | Individual Sewage Disposal | Air Quality | Power Plant and Transmission Line Siting | Coastal Construction | Transfer of Pollutants & Oil Spills | Oil and Gas Wells | Mined Lands Reclamation | State Lands | Open Burning | Protection of Historic Sites & Properties | Reg. of Subdivided Lands Condos & Co-ops | Consumptive Uses of Water. | Management & Storage of Surface Water | Water Wells & Artificial Recharge | Works of the District | A-95 Clearinghouse | Environmental Impact Statement | 10-Year Site Plans | Critical Areas | Development of Regional Impact |
|   |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Dredging, wetlands                        | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |
| Dredging for borrow                       | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |
| Dredging channels and berths              | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |
| Dredging, rigs                            | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Dredging maintenance                      | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   |                       | WMD                |                                |                    |                |                                |
| Dredging, spoil disposal                  | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   |                       | WMD                |                                |                    |                |                                |
| Drilling                                  |                 |                         |   |                               |                                  | DER                         |                           |                            |             |  |                      |                                     | DNR               |                         | DNR         |              |   |  | WMD                        |                                       | WMD                               |                       |                    |                                |                    |                |                                |
| Electrical power plant                    | COE<br>DER      | DER                     |   | EPA<br>DER                    |                                  |                             | DER                       |                            | DER         | DER                                      |                      |                                     |                   |                         |             |              |   |  | WMD                        | WMD                                   |                                   |                       |                    | DOA                            | DVCA               |                |                                |
| Electrical transmission lines             | DER             |                         |   |                               |                                  |                             |                           |                            | DER         |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            |                                       |                                   | WMD                   |                    |                                | DVCA               | DVCA           |                                |
| Excavation, prehistoric or historic sites | DER             |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Federally funded and assisted projects    |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            |                                       |                                   |                       | DOA                | DOA                            |                    |                |                                |
| Filling, site development                 | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         |             |              |   |  |                            | WMD                                   |                                   |                       |                    |                                |                    |                |                                |
| Filling, wetlands                         | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   | DNR                     |             |              |   |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |
| Flood control works                       | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            | WMD                                   |                                   | WMD                   |                    | DOA                            |                    |                |                                |
| Gages                                     | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Groins and jetties                        | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              |   |  |                            |                                       |                                   | WMD                   |                    | DOA                            |                    |                |                                |

Figure 31 , Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.



| PERMITTING AND PROJECT REVIEW PROGRAMS |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
|--|-----------------|-------------------------|---|-------------------------------|----------------------------------|-----------------------------|---------------------------|----------------------------|-------------|--|----------------------|-------------------------------------|-------------------|-------------------------|-------------|--------------|---|--|----------------------------|---------------------------------------|-----------------------------------|-----------------------|--------------------|--------------------------------|--------------------|----------------|--------------------------------|------|
| LAND AND WATER DEVELOPMENT ACTIVITIES  | Dredge and Fill | Water Pollution Sources | National Pollutant Discharge Elimination System | Public Drinking Water Systems | Private and Public Water Systems | Well Drilling and Use (DER) | Solid and Hazardous Waste | Individual Sewage Disposal | Air Quality | Power Plant and Transmission Line Siting | Coastal Construction | Transfer of Pollutants & Oil Spills | Oil and Gas Wells | Mined Lands Reclamation | State Lands | Open Burning | Protection of Historic Sites & Properties | Reg. of Subdivided Lands Condos & Co-ops | Consumptive Uses of Water. | Management & Storage of Surface Water | Water Wells & Artificial Recharge | Works of the District | A-95 Clearinghouse | Environmental Impact Statement | 10-Year Site Plans | Critical Areas | Development of Regional Impact |      |
| Highway construction                   |                 |                         |   |                               |                                  |                             |                           |                            | DER         |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    | DOA                            |                    |                |                                |      |
| Hospitals                              |                 |                         |   | DER                           |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  | WMD                        |                                       |                                   |                       |                    |                                |                    |                |                                | DVCA |
| Houses                                 |                 |                         |   |                               | DHRS                             |                             |                           | DHRS                       |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            |                                       | WMD                               |                       |                    |                                |                    |                |                                |      |
| Household garbage site                 |                 |                         |   |                               |                                  |                             | DER                       |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Impoundments                           | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |      |
| Incinerator                            |                 |                         |   |                               |                                  |                             | DER                       |                            | DER         |  |                      |                                     |                   |                         |             | DER          |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Industrial, air emissions              |                 |                         |   |                               |                                  |                             |                           |                            | DER         |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Industrial, discharge to surface water |                 | DER                     | EPA<br>DER                                      |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |      |
| Industrial, discharge to groundwater   |                 | DER                     |   |                               |                                  | DER                         |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            | WMD                                   | WMD                               |                       |                    |                                |                    |                |                                |      |
| Industrial, hazardous waste disposal   |                 |                         |   |                               |                                  |                             | DER                       |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Industrial, plants and parks           |                 | DER                     | EPA<br>DER                                      | DER                           |                                  |                             | DER                       |                            | DER         |  |                      |                                     |                   |                         |             |              |   |  |                            | WMD                                   | WMD                               |                       |                    |                                |                    |                |                                | DVCA |
| Jetties                                | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   | DNR                     |             |              | DOS                                       |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Landfill                               |                 | DER                     |   |                               |                                  |                             | DER                       |                            | DER         |  |                      |                                     |                   |                         |             |              |   |  |                            | WMD                                   |                                   |                       |                    |                                |                    |                |                                |      |
| Land sales                             |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   | DBR                                      |                            |                                       |                                   |                       |                    |                                |                    |                |                                | DVCA |
| Land spreading                         |                 | DER                     |   |                               |                                  |                             | DER                       |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Land clearing and burning              |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             | DER<br>DACS  |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.

| PERMITTING AND PROJECT REVIEW PROGRAMS |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
|--|-----------------|-------------------------|---|-------------------------------|----------------------------------|-----------------------------|---------------------------|----------------------------|-------------|--|----------------------|-------------------------------------|-------------------|-------------------------|-------------|--------------|---|--|----------------------------|---------------------------------------|-----------------------------------|-----------------------|--------------------|--------------------------------|--------------------|----------------|--------------------------------|------|
| LAND AND WATER DEVELOPMENT ACTIVITIES  | Dredge and Fill | Water Pollution Sources | National Pollutant Discharge Elimination System | Public Drinking Water Systems | Private and Public Water Systems | Well Drilling and Use (DER) | Solid and Hazardous Waste | Individual Sewage Disposal | Air Quality | Power Plant and Transmission Line Siting | Coastal Construction | Transfer of Pollutants & Oil Spills | Oil and Gas Wells | Mined Lands Reclamation | State Lands | Open Burning | Protection of Historic Sites & Properties | Reg. of Subdivided Lands Condos & Co-ops | Consumptive Uses of Water. | Management & Storage of Surface Water | Water Wells & Artificial Recharge | Works of the District | A-95 Clearinghouse | Environmental Impact Statement | 10-Year Site Plans | Critical Areas | Development of Regional Impact |      |
| Levees                                 | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |      |
| Maintenance dredging                   | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Mariculture                            | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Marinas                                | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                | DVCA |
| Const. of any new transmission line    |                 |                         |   |                               |                                  |                             |                           |                            |             | DER<br>PSC                               |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Marine platforms                       | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Marine railroads                       | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |      |
| Mining operations                      | COE<br>DER      | DER                     |   | EPA<br>DER                    |                                  |                             | DER                       |                            | DER         |  |                      |                                     |                   | DNR                     |             |              | DOS                                       |  | WMD                        | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                | DVCA |
| Mining phosphate ponds, dams           |                 | DER                     |   | EPA<br>DER                    |                                  |                             | DER                       |                            |             |  |                      |                                     |                   | DNR                     |             |              | DOS                                       |  | WMD                        |                                       |                                   | WMD                   |                    |                                |                    |                |                                | DVCA |
| Mining, reclamation                    |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   | DNR                     |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Mining in water and wetlands           | COE<br>DER      | DER                     |   | EPA<br>DER                    |                                  |                             |                           |                            |             |  |                      |                                     |                   | DNR                     | DNR         |              | DOS                                       |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |      |
| Mooring buoys and pilings              | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              |   |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |      |
| Navigation aids                        | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |      |
| Navigation channels                    | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              |   |  |                            |                                       |                                   |                       |                    |                                | DOA                |                |                                |      |
| Office parks                           |                 |                         |   | DER                           |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  | WMD                        | WMD                                   |                                   |                       |                    |                                |                    |                |                                | DVCA |
| Oil & gas wells                        |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     | DNR               |                         | DNR         |              |   |  | WMD                        | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |      |

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.

| PERMITTING AND PROJECT REVIEW PROGRAMS |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
|--|-----------------|-------------------------|---|-------------------------------|----------------------------------|-----------------------------|---------------------------|----------------------------|-------------|--|----------------------|-------------------------------------|-------------------|-------------------------|-------------|--------------|---|--|----------------------------|---------------------------------------|-----------------------------------|-----------------------|--------------------|--------------------------------|--------------------|----------------|--------------------------------|------|
| LAND AND WATER DEVELOPMENT ACTIVITIES  | Dredge and Fill | Water Pollution Sources | National Pollutant Discharge Elimination System | Public Drinking Water Systems | Private and Public Water Systems | Well Drilling and Use (DER) | Solid and Hazardous Waste | Individual Sewage Disposal | Air Quality | Power Plant and Transmission Line Siting | Coastal Construction | Transfer of Pollutants & Oil Spills | Oil and Gas Wells | Mined Lands Reclamation | State Lands | Open Burning | Protection of Historic Sites & Properties | Reg. of Subdivided Lands Condos & Co-ops | Consumptive Uses of Water. | Management & Storage of Surface Water | Water Wells & Artificial Recharge | Works of the District | A-95 Clearinghouse | Environmental Impact Statement | 10-Year Site Plans | Critical Areas | Development of Regional Impact |      |
| Oil & gas, leases                      |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Oil & gas storage                      |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      | DNR                                 |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Open burning                           |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             | DER<br>DACS  |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Out fall pipes                         | COE<br>DER      | DER                     | EPA<br>DER                                      |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              |   |  |                            |                                       | WMD                               | WMD                   |                    |                                |                    |                |                                |      |
| Parking lots                           |                 | DER                     |   |                               |                                  |                             |                           |                            | DER         |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       | WMD                               |                       |                    |                                |                    |                |                                |      |
| Petroleum storage                      |                 |                         |   |                               |                                  |                             |                           |                            | DER         |  |                      | DNR                                 |                   |                         |             |              |   |  |                            |                                       | WMD                               |                       |                    |                                |                    |                |                                | DVCA |
| Phosphate ponds, dams                  |                 | DER                     | EPA<br>DER                                      |                               |                                  |                             | DER                       |                            |             |  |                      |                                     |                   | DNR                     |             |              | DOS                                       |  |                            |                                       | WMD                               | WMD                   |                    |                                |                    |                |                                |      |
| Piers, commercial                      | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |      |
| Piers, private                         | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         |             |              |   |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |      |
| Pipelines, subaqueous                  | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  | DNR                                 | DNR               |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |      |
| Port facilities                        | COE<br>DER      |                         |   | DER.                          |                                  |                             |                           |                            | DER         |  | DNR                  | DNR                                 |                   | DNR                     |             | DOS          |   |  |                            |                                       |                                   | WMD                   |                    | DOA                            |                    |                |                                | DVCA |
| Pollutant transfer facility            | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      | DNR                                 | DNR               |                         | DNR         |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Potable water reservoirs               | COE<br>DER      |                         |   | DER                           | DHRS                             |                             |                           |                            |             |  |                      |                                     |                   | DNR                     |             | DOS          |   |  |                            | WMD                                   | WMD                               | WMD                   |                    |                                |                    |                |                                |      |
| Power plant const. and expansion       | COE<br>DER      | DER                     | EPA<br>DER                                      | DER                           |                                  |                             | DER                       |                            | DER         | DER                                      | DNR                  |                                     | DNR               | DNR                     |             | DOS          |   |  | WMD                        | WMD                                   | WMD                               | WMD                   |                    | DOA                            |                    |                |                                |      |
| Power plant, planning                  |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    | DVCA           |                                |      |
| Public water supplies                  |                 |                         |   | DER                           | DHRS                             | DER                         |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  | WMD                        |                                       | WMD                               |                       |                    |                                |                    |                |                                |      |

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.

| PERMITTING AND PROJECT REVIEW PROGRAMS  |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                           |                                       |                                   |                       |                    |                                |                    |                |                                |      |
|---|-----------------|-------------------------|---|-------------------------------|----------------------------------|-----------------------------|---------------------------|----------------------------|-------------|--|----------------------|-------------------------------------|-------------------|-------------------------|-------------|--------------|---|--|---------------------------|---------------------------------------|-----------------------------------|-----------------------|--------------------|--------------------------------|--------------------|----------------|--------------------------------|------|
| LAND AND WATER DEVELOPMENT ACTIVITIES   | Dredge and Fill | Water Pollution Sources | National Pollutant Discharge Elimination System | Public Drinking Water Systems | Private and Public Water Systems | Well Drilling and Use (DER) | Solid and Hazardous Waste | Individual Sewage Disposal | Air Quality | Power Plant and Transmission Line Siting | Coastal Construction | Transfer of Pollutants & Oil Spills | Oil and Gas Wells | Mined Lands Reclamation | State Lands | Open Burning | Protection of Historic Sites & Properties | Reg. of Subdivided Lands Condos & Co-ops | Consumptive Uses of Water | Management & Storage of Surface Water | Water Wells & Artificial Recharge | Works of the District | A-95 Clearinghouse | Environmental Impact Statement | 10-Year Site Plans | Critical Areas | Development of Regional Impact |      |
| Pulverizer                              |                 |                         |   |                               |                                  | DER                         |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                           |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| railroads                               |                 |                         |   | DER                           |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                           |                                       |                                   |                       |                    | DOA                            |                    |                |                                |      |
| Resource recovery                       |                 |                         |   |                               |                                  | DER                         |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                           |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Reefs, offshore artificial              | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DNR         |              | DOS                                       |  |                           |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Residential development                 |                 | DER                     |   | DER                           | DHRS                             |                             |                           | DHRS                       |             |  | DNR                  |                                     |                   |                         |             |              | DOS                                       | DBR                                      | WMD                       |                                       | WMD                               | WMD                   |                    |                                |                    |                |                                | DVCA |
| Reservoirs                              | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                           | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |      |
| Revetment                               | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              |   |  |                           |                                       |                                   |                       | WMD                |                                |                    |                |                                |      |
| Retaining wall                          | COE<br>DER      |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                           |                                       |                                   |                       | WMD                |                                |                    |                |                                |      |
| Riprap                                  |                 |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              |   |  |                           |                                       |                                   |                       | WMD                |                                |                    |                |                                |      |
| Road construction                       |                 |                         |   |                               |                                  |                             |                           | DER                        |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                           | WMD                                   |                                   | WMD                   |                    | DOA                            |                    |                |                                |      |
| Sanitary landfill                       |                 | DER                     | EPA<br>DER                                      |                               |                                  |                             | DER                       | DER                        |             |  |                      |                                     |                   |                         |             |              |   |  |                           | WMD                                   |                                   |                       |                    |                                |                    |                |                                |      |
| Schools                                 |                 |                         |   | DER                           | DHRS                             |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  | WMD                       |                                       | WMD                               |                       |                    |                                |                    |                |                                | DVCA |
| Septic tank                             |                 |                         |   |                               |                                  |                             |                           | DHRS                       |             |  |                      |                                     |                   |                         |             |              |   |  |                           |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Sewage collection & transmission        |                 | DER                     |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                           |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Sewage disposal                         |                 | DER                     | EPA<br>DER                                      |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                           |                                       |                                   |                       |                    |                                |                    |                |                                |      |
| Sewage, percolation & evaporation ponds |                 | DER                     | EPA<br>DER                                      |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                           |                                       |                                   |                       |                    |                                |                    |                |                                |      |

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.

PERMITTING AND PROJECT REVIEW PROGRAMS

| LAND AND WATER DEVELOPMENT ACTIVITIES | Dredge and Fill | Water Pollution Sources | National Pollutant Discharge Elimination System | Public Drinking Water Systems | Private and Public Water Systems | Well Drilling and Use (DER) | Solid and Hazardous Waste | Individual Sewage Disposal | Air Quality | Power Plant and Transmission Line Siting | Coastal Construction | Transfer of Pollutants & Oil Spills | Oil and Gas Wells | Mined Lands Reclamation | State Lands | Open Burning | Protection of Historic Sites & Properties | Reg. of Subdivided Lands Condos & Co-ops | Consumptive Uses of Water. | Management & Storage of Surface Water | Water Wells & Artificial Recharge | Works of the District | A-95 Clearinghouse | Environmental Impact Statement | 10-Year Site Plans | Critical Areas | Development of Regional Impact |
|---------------------------------------|-----------------|-------------------------|---|-------------------------------|----------------------------------|-----------------------------|---------------------------|----------------------------|-------------|--|----------------------|-------------------------------------|-------------------|-------------------------|-------------|--------------|---|--|----------------------------|---------------------------------------|-----------------------------------|-----------------------|--------------------|--------------------------------|--------------------|----------------|--------------------------------|
| Sewage plant construction             |                 | DER                     | EPA DER   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              | DOS                                       |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Sewage polishing ponds                |                 | DER                     | EPA DER   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Shopping centers                      |                 |                         |   | DER                           |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  | WMD                        | WMD                                   | WMD                               |                       |                    |                                |                    |                | DVCA                           |
| Shoreline protection                  | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         | DNR         |              | DOS                                       |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Shredding, baling plant               |                 |                         |   |                               |                                  |                             | DER                       |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Signs in water and wetlands           | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         |             |              |   |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |
| Ski ramps                             | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |
| Spray irrigation                      |                 | DER                     | DER   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Stilt houses                          | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  | DNR                  |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Stormwater control                    |                 | DER                     | EPA DER   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |
| Stormwater disposal                   |                 | DER                     | EPA DER   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            | WMD                                   |                                   | WMD                   |                    |                                |                    |                |                                |
| Storage of pollutants                 |                 |                         |   |                               |                                  |                             |                           |                            | DER         |  |                      | DNR                                 |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Subdivision of lands                  |                 |                         |   |                               |                                  |                             |                           | DHRS                       |             |  |                      |                                     |                   |                         |             |              |   | DBR                                      |                            | WMD                                   |                                   |                       |                    |                                |                    |                |                                |
| Transfer of pollutants                |                 |                         |   |                               |                                  |                             |                           |                            |             |  |                      | DNR                                 | DNR               |                         | DOS         |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Transfer station for solid waste      |                 |                         |   |                               |                                  |                             | DER                       |                            |             |  |                      |                                     |                   |                         |             |              |   |  |                            |                                       |                                   |                       |                    |                                |                    |                |                                |
| Tunnels, underwater                   | COE DER         |                         |   |                               |                                  |                             |                           |                            |             |  |                      |                                     |                   |                         | DOS DNR     |              |   |  |                            |                                       |                                   | WMD                   |                    |                                |                    |                |                                |

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.

PERMITTING AND PROJECT REVIEW PROGRAMS

| LAND AND WATER DEVELOPMENT ACTIVITIES            | Dredge and Fill                   | Water Pollution Sources | National Pollutant Discharge Elimination System | Public Drinking Water Systems | Private and Public Water Systems | Well Drilling and Use (DER) | Solid and Hazardous Waste                       | Individual Sewage Disposal | Air Quality | Power Plant and Transmission Line Siting | Coastal Construction | Transfer of Pollutants & Oil Spills | Oil and Gas Wells                      | Mined Lands Reclamation | State Lands | Open Burning | Protection of Historic Sites & Properties | Reg. of Subdivided Lands Condos & Co-ops | Consumptive Use of Water | Management & Storage of Surface Water | Water Wells & Artificial Recharge | Works of the District | A-95 Clearinghouse | Environmental Impact Statement | 10-Year Site Plans | Critical Areas | Development of Regional Impact |  |
|--|-----------------------------------|-------------------------|---|-------------------------------|----------------------------------|-----------------------------|---|----------------------------|-------------|--|----------------------|-------------------------------------|--|-------------------------|-------------|--------------|---|--|--------------------------|---------------------------------------|-----------------------------------|-----------------------|--------------------|--------------------------------|--------------------|----------------|--------------------------------|--|
|  | Use of state lands                |                         |   |                               |                                  |                             |   |                            |             |  |                      |                                     |  |                         |             | DNR          |   |  |                          |                                       |                                   |                       |                    |                                |                    |                |                                |  |
| Volume reduction plant                           |                                   |                         |   |                               |                                  |                             | DER   |                            |             |  |                      |                                     |  |                         |             |              |   |  |                          |                                       |                                   |                       |                    |                                |                    |                |                                |  |
| Water, consumptive use                           |                                   |                         |   |                               |                                  |                             |   |                            |             |  |                      |                                     |  |                         |             |              |   |  | WMD                      |                                       |                                   |                       |                    |                                |                    |                |                                |  |
| Water supply system                              |                                   |                         |   | DER                           | DHRS                             |                             |   |                            |             |  |                      |                                     |  |                         | DOS         |              |   |  | WMD                      |                                       | WMD                               |                       |                    |                                |                    |                |                                |  |
| Water, wells                                     |                                   |                         |   |                               |                                  | DER                         |   |                            |             |  |                      |                                     |  |                         | DOS         |              |   |  | WMD                      |                                       | WMD                               |                       |                    |                                |                    |                |                                |  |
| Wells, potable water supply                      |                                   |                         |   | DER                           |                                  |                             |   |                            |             |  |                      |                                     |  |                         |             |              |   |  | WMD                      |                                       | WMD                               |                       |                    |                                |                    |                |                                |  |
| Wells, disposal                                  |                                   | DER                     |   |                               |                                  | DER                         | DER   |                            |             |  |                      |                                     |  |                         |             |              |   |  |                          |                                       | WMD                               |                       |                    |                                |                    |                |                                |  |
| Wells, oil and gas                               |                                   |                         |   |                               |                                  |                             |   |                            |             |  |                      | DER                                 |  |                         | DNR         |              | DOS                                       |  | WMD                      |                                       |                                   |                       |                    |                                |                    |                |                                |  |
| Yard trash site                                  |                                   |                         |   |                               |                                  |                             | DER   |                            | DER         |  |                      |                                     |  |                         |             |              |   |  |                          |                                       |                                   |                       |                    |                                |                    |                |                                |  |
| Sale, creation & operation of residential condos |                                   |                         |   |                               |                                  |                             |   |                            |             |  |                      |                                     |  |                         |             |              |   | DBR                                      |                          |                                       |                                   |                       |                    |                                |                    |                |                                |  |
| Sale, creation & operation of residential co-ops |                                   |                         |   |                               |                                  |                             |   |                            |             |  |                      |                                     |  |                         |             |              |   | DBR                                      |                          |                                       |                                   |                       |                    |                                |                    |                |                                |  |
| DOS  | Department of State               |                         |   |                               |                                  | DACS                        | Department of Agriculture and Consumer Services |                            |             |  |                      | EPA                                 | Environmental Protection Agency        |                         |             |              |   |  |                          |                                       |                                   |                       |                    |                                |                    |                |                                |  |
| DNR  | Department of Natural Resources   |                         |   |                               |                                  | DVCA                        | Department of Veterans and Community Affairs    |                            |             |  |                      | DER                                 | Department of Environmental Regulation |                         |             |              |   |  |                          |                                       |                                   |                       |                    |                                |                    |                |                                |  |
| PSC  | Public Service Commission         |                         |   |                               |                                  | DHRS                        | Department Health and Rehabilitative Services   |                            |             |  |                      | WMD                                 | Water Management District              |                         |             |              |   |  |                          |                                       |                                   |                       |                    |                                |                    |                |                                |  |
| DBR  | Department of Business Regulation |                         |   |                               |                                  | COE                         | U.S. Army Corps of Engineers                    |                            |             |  |                      | DOA                                 | Department of Administration           |                         |             |              |   |  |                          |                                       |                                   |                       |                    |                                |                    |                |                                |  |

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Concluded.

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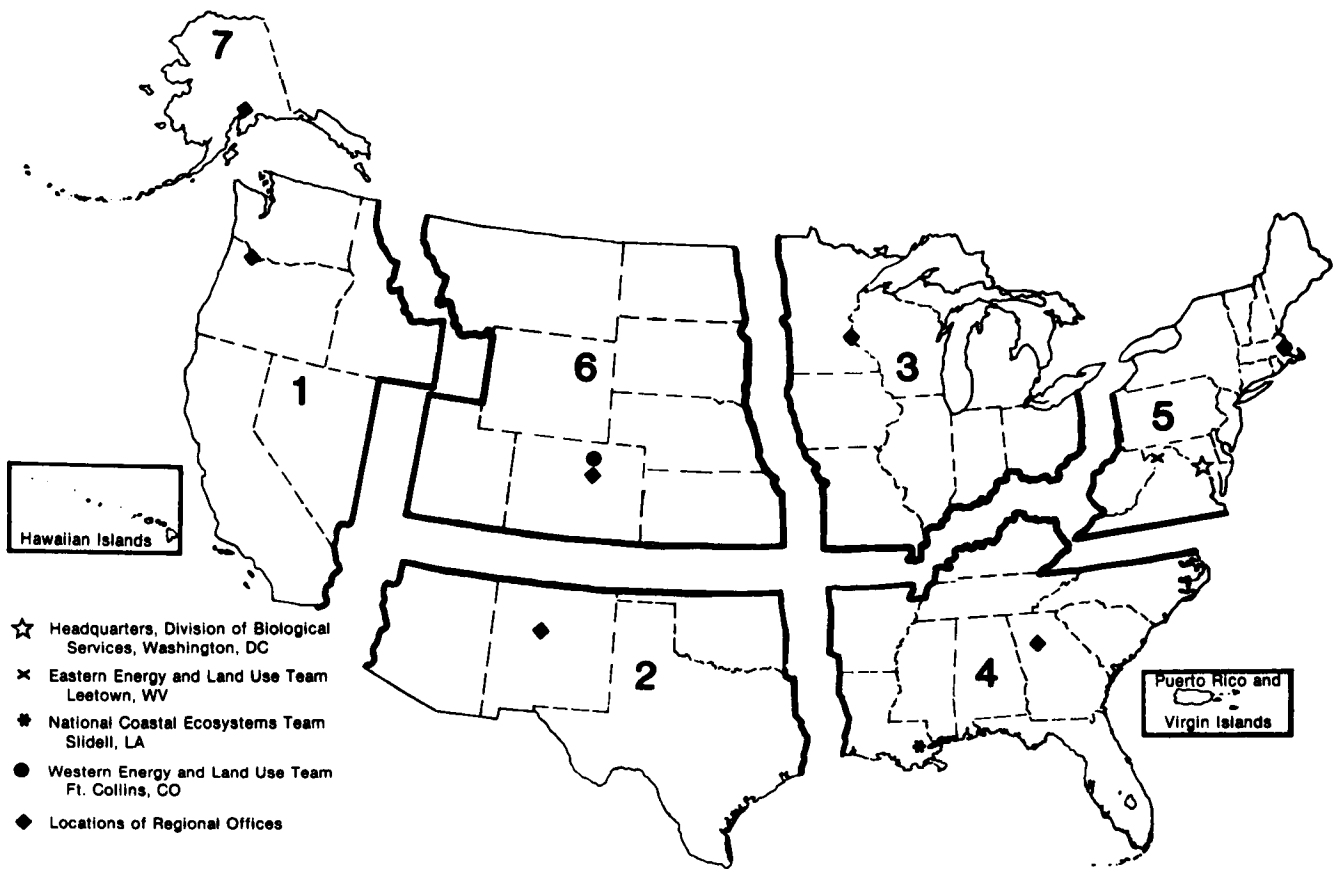
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**DEPARTMENT OF THE INTERIOR**  
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As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.