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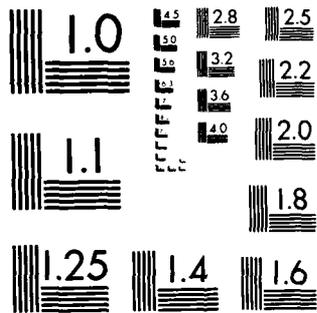
SUMMARY OF COMMODITY HANDLING TERMINALS ON UNITED STATES INLAND WATERWAYS (U) NAVIGATION DATA CENTER FORT BELVOIR VA OCT 88 NDC-88-P-1

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U. S. ARMY
CORPS OF ENGINEERS

SUMMARY OF COMMODITY HANDLING
TERMINALS ON UNITED STATES
INLAND WATERWAYS

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MAR 23 1989
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PREPARED BY
JOHN W. VETTER
PORT FACILITIES

NAVIGATION DATA CENTER
WATER RESOURCES SUPPORT CENTER
FORT BELVOIR, VIRGINIA 22060-5586

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SUMMARY OF COMMODITY HANDLING TERMINALS ON UNITED STATES INLAND WATERWAYS

SCOPE:

This report groups the nations various inland waterway terminals by location and type of commodity handled. Included is general information denoting location, berthing length, indication of whether a terminal is a receiving, shipping, or inactive facility, operating rates, and storage capacities. Information indicating throughput capacities of individual terminals is not available.

SELECTED WATERWAYS:

The waterways included in this report are those designated as subject to the inland waterways users' tax as defined within the scope of PL 95-502 - October 21, 1978 and PL 99-662 - October 17, 1986. Specific information is not readily available for a number of the waterways, therefore, these segments are not included. Data is available for tributary areas of various defined waterways, however, these areas are not included in this report as the law does not specifically provide for them.

The following tabulation describes the various waterways subject to the users' tax, gives excluded waterways and tributary areas, and indicates the specific Port Series Report/s covering each waterway.

1. Alabama - Coosa Rivers - Alabama River from junction with Tombigbee River (mile 0) to junction with Coosa River (mile 314.0).

There are no commercial facilities on the Alabama River above mile 296. Port Series No. 64 documents 25 facilities below this point.

2. Allegheny River - from confluence with Monongahela River (mile 0) to head of navigation at East Brady, Pennsylvania (mile 72).

There are no active commercial facilities above mile 50. Port Series No. 60 documents 41 facilities below this point.

3. Apalachicola-Chattahoochee-Flint Rivers - Apalachicola River from Gulf Intracoastal Waterway (mile 0) to junction with Chattahoochee and Flint Rivers (mile 107.8) and the latter two rivers from this point (mile 0) to Columbus, Georgia on the Chattahoochee River (mile 155) and to Bainbridge, Georgia on the Flint River (mile 28).

A total of 24 port facilities are described in Port Series No. 19 for the reaches indicated.

4. Arkansas River (McClellan-Kerr Arkansas River Navigation System) - Essentially the Arkansas and Verdigris Rivers from the Mississippi River (mile 0) to Catoosa, Oklahoma (mile 448.2).

Specifically excluded from this report are 18 facilities not physically located on the waterway: 13 on Lake Langhofer (Pine Bluff Harbor); 3 on Poteau River at Fort Smith; and 2 on San Bois Creek at Keota, Oklahoma. A total of 71 port facilities for the waterway and tributaries are included in Port Series Report No. 68.

5. Atchafalaya River - from junction with Gulf Intracoastal Waterway (mile 0) to junction with Red River (mile 116.8).

Presently, the entire river is not covered by any Port Series Report although Port Series No. 68 identifies a grain facility near the northerly end and a multi-purpose pier on a non-included tributary area known as "Lower Old River". It is known that sand, grain, petroleum handling, and multi-purpose facilities exist at Knotz Springs (mile 48) and that the southerly portion near Morgan City has a number of facilities of which practically all are engaged in servicing the offshore oil industry.

6. Atlantic Intracoastal Waterway - between Norfolk, Virginia (mile 0), and Miami, Florida (mile 1089), main route via Albemarle and Chesapeake Canal, and alternate route, via Great Dismal Swamp Canal and Okeechobee Waterway.

Commercial traffic on the waterway is relatively rare; less than 500,000 tons of cargo was reported in 1986 for the entire waterway. A few facilities being located adjacent to a deep-water port may be included in a Port Series Report, however, a complete listing of commercial facilities on the waterway is not available.

7. Black Warrior-Tombigbee-Mobile Rivers (Black Warrior River System) - Mobile River from Chickasaw Creek at Mobile (mile 2.9) to junction with Tombigbee River (mile 45); Tombigbee River to junction with Black Warrior River at Demopolis (mile 215.4); Black Warrior River to head of Navigation at Port Birmingham on Locust Fork (mile 407.8); and on Mulberry Fork to junction with Sipsey Fork (mile 429.6) including 0.9 mile of Sipsey Fork.

A total of 68 port facilities are described in Port Series No. 64 for the waterway system. Two facilities on the Tensaw River, a tributary stream, are not included in this report.

8. Columbia River (Columbia-Snake Rivers Inland Waterways): - The Columbia River from the Dalles Lock and Dam (mile 191.5) to Pasco, Washington (mile 330) and the Snake River from Pasco (mile 0) to Johnson Bar Landing, Idaho (mile 231.5).

The Snake River is not navigable for commercial craft above Lewiston, Idaho (mile 140). The port facilities at Lewiston, although physically located on the Clearwater River, are included in the report. Approximately 70 barge handling port facilities located on the Columbia River and tributaries below the Dalles Lock and Dam (mile 191.5) are excluded from the report as being outside the defined waterway. Port Series Report No. 33 documents 49 terminals along the waterway within the section defined.

9. Cumberland River - from the Ohio River (mile 0) to Cordell Hull Lock and Dam (mile 313.5).

Port Series Report No. 63 describes 34 facilities on the Cumberland River, 33 of which are located below mile 245. One wharf, however, is included although located at mile 359.

10. Green and Barren Rivers - Green River from Ohio River (mile 0) to mouth of Barren River (mile 149.1).

There are no commercial facilities above Rochester, Kentucky (mile 108). Port Series Report No. 63 describes 22 facilities below this point and they are included in this report.

11. Gulf Intracoastal Waterway - Inland Water Route paralleling the Gulf of Mexico shoreline from St. Marks River, Florida (mile 376.2E) to Brownsville, Texas (mile 681.8W).

Port facility descriptions for the waterway are not complete. Portions of the waterway containing commodity handling terminals are described in Port Series Reports Nos 19, 22, and 26, however, due to the incompleteness of available facility data, inclusion of the waterway has been postponed until publication of a future report.

12. Illinois Waterway - Illinois River from Mississippi River (mile 0) to junction with Des Plaines and Kankakee Rivers (mile 273); Des Plaines River to Lockport Lock (mile 291.1). The Chicago Sanitary and Ship Canal from Lockport to the South Branch Chicago River (mile 321.8) continuing up the North Branch Chicago River to mile 331, and along the main stem of the river from mile 325.5 to Lake Michigan (mile 327.5). The Calumet-Sag Channel from the Chicago Sanitary and Ship Canal (mile 303.5) to the Calumet River (mile 319.8); and the Calumet River from that point to Lake Michigan (mile 334).

Port Series Report No. 65 describes all the port facilities located below the Lockport Lock and Port Series Report No. 46 describes the remainder. For the purpose of this report, only barge handling facilities at the deep draft (Port of Chicago) wharves were considered.

13. Kanawha River - from the Ohio River (mile 0) to Deepwater, West Virginia (mile 90.6).

Seventy-eight facilities on the river are described in Port Series Report No. 61 and are included in this report. Five facilities on the Elk River at Charleston and one on the Poca River are excluded from the report as they are not located on the Kanawha River as defined by PL 95-502.

14. Kaskaskia River - from Mississippi River (mile 0) to Fayetteville, Illinois (mile 36.2).

One facility located at mile 24 is described in Port Series No. 70 for the river. Two additional terminals reportedly have been built since publication of the Port Series. All data available for the 3 terminals is included in the report.

15. Kentucky River - from Ohio River (mile 0) to junction of Middle and North Forks (mile 258.8).

Port Series Report No. 62 documents five commercial facilities on the river, of which only two are active: one at Frankfort (mile 65) and one at Carrollton near the mouth.

16. Mississippi River

a. Lower Mississippi River - From Baton Rouge, Louisiana (mile 233.8) to the mouth of the Ohio River at Cairo, Illinois (mile 953.8).

Specifically excluded from this report are facilities that are not physically located on the Mississippi River: 30 at Vicksburg including Yazoo River Diversion Canal; 5 on Lake Providence; 27 on Lake Ferguson (Greenville Harbor); 3 at Rosedale Harbor; 37 on McKellar

Lake (Memphis Harbor); 11 on Wolf River at Memphis. A total of 229 port facilities for the waterways and tributaries are described in Port Series Reports Nos. 71 and 72.

b. Middle Mississippi River - from mouth of Ohio River at Cairo, Illinois (mile 0) to mouth of the Missouri River above St. Louis (mile 195.4).

Port Series Report No. 70 documents 130 facilities along the described waterway. Terminals along the Chain of Rocks Canal are included since the canal forms part of the river navigation route.

c. Upper Mississippi River - from mouth of Missouri River (mile 195.4) to Minneapolis, Minnesota (mile 857.6).

Specifically excluded from this report are facilities not physically located on the Mississippi River: 10 on Black River at LaCrosse, Wisconsin; 3 on St. Croix River at Stillwater, Minnesota; and 11 on Minnesota River at Savage, Minnesota. A total of 290 port facilities are described for the river and tributaries in Port Series Reports Nos. 70 and 69.

17. Missouri River - from junction with Mississippi River (mile 0) to Sioux City, Iowa (mile 734.8).

One hundred and six port facilities as documented in Port Series Report No. 68 are described as being physically located on the Missouri River. Two facilities located on tributaries (the Osage and Grand Rivers) are excluded from this report.

18. Monongahela River - from Ohio River at Pittsburgh (mile 0) to junction of Tygart and West Fork Rivers at Fairmont, West Virginia (mile 128.7).

Port Series Report No. 60 documents 146 port facilities along the Monongahela River and 2 on the Cheat River, an excluded tributary.

19. Ohio River - from Mississippi River at Cairo, Illinois (mile 981.5) to the confluence of the Allegheny and Monongahela Rivers at Pittsburgh (mile 0).

Specifically excluded from this report are facilities on tributary ~~waters~~ Licking River; 13 on Big Sandy River; and 2 on Little Kanawha River. A total of 548 port facilities are physically located on the Ohio River and each is documented in Port Series Report Nos. 63, 62, 61, or 60, as well as those located on the excluded waterways.

20. Ouachita-Black Rivers - Black River from its junction with the Red River (mile 0) to its junction with the Ouachita River at Jonesville, Louisiana (mile 41.1) and the Ouachita River to the head of navigation at Camden, Arkansas (mile 331).

Port Series Report No. 68 describes 16 wharf facilities for the rivers, only 3 of which are more than minimally active in commodity handling.

21. Pearl River - from junction of West Pearl River with The Rigolets (mile 0) to Bogalusa, Louisiana (mile 58).

Port Series Report No. 19 describes 6 facilities on Port Bienville Industrial Canal, a tributary waterway. The only terminal situated on the river is a National Aeronautics and Space Administration Slip located near Gainesville, Louisiana (mile 14).

22. Red River - Red River and Lower Old River Channel from Mississippi River at Old River Control Structure (mile 0) to Cypress Bayou at Shreveport, Louisiana (mile 236).

One facility on the Old River is documented in Port Series Report No. 68. No other commodity handling terminals are located on the Red River.

23. Tennessee River - from junction with Ohio River at Faducah, Kentucky (mile 0) to the confluence of the Holston and French Broad Rivers east of Knoxville, Tennessee (mile 652.3).

Specifically excluded from this report are facilities located on tributary waters: 19 at Guntersville Harbor (Big Spring Creek and Polecat Branch); 6 on Hiwassee River at Charleston, Tennessee; 3 on Emory River at Harriman, Tennessee; 4 on Clinch River between Kingston and Clinton, Tennessee; 2 on French Broad River east of Knoxville, Tennessee and one each on the Elk River, Soddy Creek, Piney Creek/Wolf Creek Waterway, Kings Creek, and Little Tennessee River. Ports Series Report No. 64 documents 154 facilities on the Tennessee River and 34 on the tributaries, approximately two-thirds of which can be considered as active commodity handling terminals.

24. Tennessee-Tombigbee Waterway - from the Tennessee River at Yellow Creek (mile 450.7) to the junction of the Tombigbee and Black Warrior Rivers at Demopolis, Alabama (mile 217).

Port Series Report No. 64 documents 20 port facilities along the waterway, 19 of which handle commodities.

25. White River - from the Arkansas Post Canal (mile 9.8) to Newport, Arkansas (mile 255).

Port Series Report No. 68 documents 13 facilities for the river 12 of which are commodity handling terminals. All are included in this report.

26. Willamette River - from Portland, Oregon (mile 21) to Harrisburg, Oregon (mile 194).

Port Series Report No. 34 includes one facility above mile 21; another wharf located near mile 39 is not included in the Port Series. Above that point the only commercial activity amounts to handling log rafts. The Willamette River is not included in this report.

COMMODITIES:

Five commodity types, those represented by the majority of inland waterway commerce, have been selected viz: grain, coal, petroleum, dry bulk materials other than coal, and liquid bulk materials other than petroleum. The data presented is taken from the Corps of Engineers Port Series Reports. The heading "Ref. No." indicates an individual facility designation in one of the 14 Port Series Reports used. The specific report used for a waterway segment is given with the defined waterway tabulation beginning on page 1. The complete list of the 14 Port Series Report covering the inland waterway system (revised 1982-1987) is given in the bibliography on page 12.



GRAIN HANDLING TERMINALS

Transfer rates between barge and truck or rail are given when available, facilities are arranged according to on-site storage capacity. Mode of service to elevator (rail or truck) is indicated and in some cases the size of barge holding areas at or near the terminal is given.

Facilities are subdivided into two categories, generally based upon size of storage capacity. Major Facilities generally are those having greater than 500,000 bushel storage capacity and rapid loading rates, however, this may vary slightly depending upon relativity on a particular waterway. Minor Facilities generally are those having less than 500,000 bushel on site storage capacity and/or have only a cyclical operation. The sizes of the barge holding areas shown may be mutually inclusive.

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: ALABAMA RIVER

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) To Barge from Storage Truck | Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|-------------------------|--------------|--|--|---|------------------------------|------------------|
| <u>MAJOR FACILITIES</u> | | | | | | |
| 114 | 650 | 7,000 | | 594,000 | | R/T |
| Ave. | 650 | 7,000 | | 594,000 | | |
| Tot. | 650 | | | 594,000 | | |
| <u>MINOR FACILITIES</u> | | | | | | |
| 99 | 300 | 6,600 | | 427,600 | | T |
| 109 | 325 | 7,000 | | 302,000 | | T |
| Ave. | 313 | 6,800 | | 364,800 | | |
| Tot. | 625 | | | 729,600 | | |
| <u>ALL FACILITIES</u> | | | | | | |
| Ave. | 425 | 6,867 | | 441,200 | | |
| Tot. | 1,275 | | | 1,323,600 | | |

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: APALACHICOLA, CHATTAHOOCHEE AND FLINT RIVERS

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|-------------------------|--------------|-----------------------|-------|------------------------|---------|--|---------------------------|------------------|
| | | To Barge from Storage | Truck | From Barge to Storage | Tr/Rail | | | |
| <u>MINOR FACILITIES</u> | | | | | | | | |
| 18 | 516 | 10,000 | | | | 572,000 | | R, T |
| 4 | 300 | 6,000 | | | | 550,000 | | T |
| 23 | 586 | 10,000 | | | | 426,000 | 6 | R, T |
| 10 | 900 | | 2,000 | | | | | T |
| Ave. | 576 | 8,667 | 2,000 | | | 516,000 | | |
| Tot. | 2,302 | | | | | 1,548,000 | | |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Ave. | 576 | 8,667 | 2,000 | | | 516,000 | | |
| Tot. | 2,302 | | | | | 1,548,000 | | |

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR -
ARKANSAS RIVER NAVIGATION SYSTEM)

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|----------|--------------|-----------------------------|------|-------------------------------|--|--|---------------------------|------------------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Tr/Rail | | | | |

MAJOR FACILITIES

| | | | | | | | | |
|-------|-------|--------|--------|--------|-------|-----------|------------|-----|
| 94 | 195 | 25,000 | | | | 4,998,000 | | R/T |
| 31 | 400 | 15,000 | | | | 4,200,000 | | T |
| 18 | 320 | 15,000 | | | | 2,033,000 | | T |
| 82 | 320 | 12,000 | | | | 1,000,000 | | T |
| 73 | 240 | 7,000 | | 1,200 | | 1,000,000 | | T |
| 61 | 275 | 25,000 | | 6,000 | | 850,000 | | T |
| 38 | 200 | 10,000 | | | | 800,000 | | T |
| 50 | 640 | 3,500 | | 3,500 | | 650,000 | | R/T |
| 15 | 680 | 17,000 | | | | 592,000 | | T |
| 48 | 290 | 12,000 | | | 5,000 | 500,000 | 6 | T |
| 33 | 830 | | 10,000 | 10,000 | | | | R/T |
| 78 | 150 | | 15,000 | 15,000 | | | | R/T |
| 14 | 540 | | 16,000 | | | | | T |
| <hr/> | | | | | | | | |
| Ave. | 391 | 14,150 | 13,667 | 12,500 | 3,567 | 5,000 | 1,662,300 | |
| <hr/> | | | | | | | | |
| Tot. | 5,080 | | | | | | 16,623,000 | |

MINOR FACILITIES

| | | | | | | | | |
|-------|-------|--------|--------|--|--|---------|---------|---|
| 84 | 400 | 25,000 | | | | 400,000 | | T |
| 59 | 380 | | | | | 4,000 | | T |
| 90 | 190 | | 12,000 | | | | | T |
| 91 | 400 | | 12,000 | | | | | T |
| <hr/> | | | | | | | | |
| Ave. | 343 | 25,000 | 12,000 | | | | 202,000 | |
| <hr/> | | | | | | | | |
| Tot. | 1,370 | | | | | | 404,000 | |

ALL FACILITIES

| | | | | | | | | |
|-------|-------|--------|--------|--------|-------|-------|------------|--|
| Ave. | 379 | 15,136 | 13,000 | 12,500 | 3,567 | 5,000 | 1,418,917 | |
| <hr/> | | | | | | | | |
| Tot. | 6,450 | | | | | | 17,027,000 | |

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER SYSTEM)

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) To Barge from Storage Truck | Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|-------------------------|--------------|--|--|--|---------------------------|------------------|
| <u>MAJOR FACILITIES</u> | | | | | | |
| 53 | 600 | 10,000 | | 572,150 | 4 | T |
| Ave. | 600 | 10,000 | | 572,150 | | |
| Tot. | 600 | | | 572,150 | | |
| <u>MINOR FACILITIES</u> | | | | | | |
| 23 | 498 | 10,000 | | 362,300 | | R, T |
| Ave. | 498 | 10,000 | | 362,300 | | |
| Tot. | 498 | | | 362,300 | | |
| <u>ALL FACILITIES</u> | | | | | | |
| Ave. | 549 | 10,000 | | 467,225 | | |
| Tot. | 1,098 | | | 934,450 | | |

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: COLUMBIA-SNAKE RIVER SYSTEM

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) Flat & Elev. | Total Outside Storage (bushels) | Elev. Svc. (R/T) |
|-------------------------|--------------|----------------------|--------------------|------------------------|--------------------|--|---------------------------------|------------------|
| | | To Barge | from Storage Truck | From Barge | to Storage Tr/Rail | | | |
| MAJOR FACILITIES | | | | | | | | |
| 153 | 350 | 30,000 | | | | 5,256,200 | 3,000,000 | T |
| 121 | 500 | 20,000 | | | | 5,200,000 | 250,000 | R, T |
| 146 | 295 | 30,000 | | | | 4,100,000 | | T |
| 115 | 200 | 25,000 | | | | 3,305,000 | | T |
| 113 | 500 | 18,000 | | | | 3,000,000 | | R, T |
| 129 | 400 | 15,000 | | | | 2,600,000 | | R, T |
| 137 | 300 | 25,000 | | | | 2,400,000 | 1,000,000 | T |
| 138 | 500 | 25,000 | | | | 2,146,000 | | T |
| 104 | 255 | 12,000 | | | | 1,785,000 | | T |
| 111 | 300 | 10,000 | | | | 1,649,000 | 2,750,000 | T |
| 140 | 350 | 15,000 | | | | 1,500,000 | | T |
| 139 | 200 | 17,000 | | | | 1,480,000 | 4,000,000 | T |
| 116 | 200 | 20,000 | | | | 1,244,000 | 3,000,000 | T |
| 136 | 300 | 16,000 | | | | 1,200,000 | 3,100,000 | T |
| 106 | 280 | 17,000 | | | | 1,027,000 | | R, T |
| 110 | 250 | 30,000 | | | | 800,000 | | T |
| 105 | 180 | 10,000 | | | | 750,000 | | T |
| 128 | 550 | 28,000 | | | | 665,000 | 665,000 | T |
| 149 | 300 | 30,000 | | | | 580,000 | | T |
| 152 | 350 | 30,000 | | | | 500,000 | 500,000 | R, T |
| Ave. | 328 | 21,150 | | | | 2,059,360 | | |
| Tot. | 6,560 | | | | | 41,187,200 | 18,265,000 | |
| MINOR FACILITIES | | | | | | | | |
| 134 | 210 | 25,000 | | | | 490,000 | 2,300,000 | T |
| 124 | 228 | 15,000 | | | | 450,000 | | R, T |
| 141 | 204 | 38,000 | | | | 357,000 | 350,000 | T |
| 135 | 300 | 30,000 | | | | 320,000 | | T |
| Ave. | 236 | 27,000 | | | | 404,250 | | |
| Tot. | 942 | | | | | 1,617,000 | 2,650,000 | |
| ALL FACILITIES | | | | | | | | |
| Ave. | 313 | 22,125 | | | | 1,783,508 | | |
| Tot. | 7,502 | | | | | 42,804,200 | | |

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: CUMBERLAND RIVER

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) To Barge from Storage Truck | Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock | Elev. Svc. (R/T) Near |
|----------|--------------|--|--|--|----------------------|-----------------------|
|----------|--------------|--|--|--|----------------------|-----------------------|

MAJOR FACILITIES

| | | | | | | |
|------|-------|--------|--------|-----------|--|---|
| 47 | 1,570 | 15,000 | 15,000 | 1,000,000 | | T |
| 46 | 400 | 6,000 | | 450,000 | | T |
| Ave. | 985 | 10,500 | 15,000 | 725,000 | | |
| Tot. | 1,970 | | | 1,450,000 | | |

MINOR FACILITIES

| | | | | | | |
|------|-----|--------|--|--------|--|---|
| 45 | 800 | 15,000 | | 54,000 | | T |
| Ave. | 800 | 15,000 | | 54,000 | | |
| Tot. | 800 | | | 54,000 | | |

ALL FACILITIES

| | | | | | | |
|------|-------|--------|--------|-----------|--|--|
| Ave. | 923 | 12,000 | 15,000 | 501,333 | | |
| Tot. | 2,770 | | | 1,504,000 | | |

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: GREEN RIVER

| Ref. Berth No. | Berth Length | Loading Rate (Bu/Hr) To Barge from Storage Truck Rail | | Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail | | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|----------------|--------------|---|--|--|--|---|------------------------------|---------------------|
|----------------|--------------|---|--|--|--|---|------------------------------|---------------------|

MAJOR FACILITIES

| | | | | | | | | |
|------|-----|--------|--|--|--|-----------|--|------|
| 72 | 900 | 20,000 | | | | 2,690,000 | | R, T |
| Ave. | 900 | 20,000 | | | | 2,690,000 | | |
| Tot. | 900 | | | | | 2,690,000 | | |

MINOR FACILITIES

| | | | | | | | | |
|------|-----|--------|--------|--|--|--------|--|---|
| 69 | 350 | 32,500 | 32,500 | | | 70,000 | | T |
| Ave. | 350 | 32,500 | 32,500 | | | 70,000 | | |
| Tot. | 350 | | | | | 70,000 | | |

ALL FACILITIES

| | | | | | | | | |
|------|-------|--------|--------|--|--|-----------|--|--|
| Ave. | 625 | 26,250 | 32,500 | | | 1,380,000 | | |
| Tot. | 1,250 | | | | | 2,760,000 | | |

Date: 10/17/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY, (INCLUDING BARGE FACILITIES
AT THE PORT OF CHICAGO)

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|----------|--------------|----------------------|------------------|-------------------------------|-------------------------------|--|---------------------------|------------------|
| | | To Storage | from Barge Truck | From Barge to Storage Tr/Rail | From Barge to Storage Tr/Rail | | | |

MINOR FACILITIES

| | | | | | | | | |
|-----|-------|--------|--------|--------|--|---------|-----|------|
| 100 | 800 | 10,000 | | | | 370,000 | | R, T |
| 28 | 425 | 20,000 | | | | 360,000 | 170 | R, T |
| 147 | 275 | 8,500 | | | | 315,000 | | T |
| 6 | 590 | 20,000 | | | | 300,000 | 350 | T |
| 89 | 195 | 20,000 | | | | 270,000 | 97 | T |
| 93 | 650 | 14,000 | | | | 250,000 | 100 | T |
| 20 | 500 | 20,000 | | | | 225,000 | 130 | T |
| 41 | 415 | 20,000 | | | | 200,000 | 55 | T |
| 91 | 400 | 15,000 | | | | 200,000 | 97 | T |
| 123 | 310 | 15,000 | | | | 198,900 | 55 | T |
| 39 | 435 | 21,000 | | | | 190,000 | 55 | T |
| 13 | 300 | 18,000 | | | | 180,000 | 110 | T |
| 12 | 400 | 15,000 | | | | 132,000 | 110 | T |
| 120 | 670 | 22,000 | | | | 120,000 | 55 | T |
| 18 | 700 | 22,000 | | | | 115,000 | 130 | T |
| 77 | 365 | 12,000 | | | | 115,000 | 33 | T |
| 88 | 400 | 20,000 | | | | 110,000 | 97 | T |
| 45 | 250 | 25,000 | | | | 110,000 | 190 | T |
| 116 | 280 | 15,000 | | | | 100,000 | 118 | T |
| 51 | 200 | 23,000 | | | | 100,000 | 67 | T |
| 115 | 200 | 35,000 | | | | 100,000 | 118 | T |
| 25 | 460 | 18,000 | | | | 84,000 | 170 | R, T |
| 107 | 300 | | 40,000 | 40,000 | | 80,000 | 12 | R, T |
| 131 | 800 | 18,000 | | | | 60,000 | 30 | T |
| 104 | 580 | 18,000 | 14,000 | | | 60,000 | 67 | T |
| 122 | 320 | 10,000 | | | | 50,000 | 55 | T |
| 37 | 1,400 | 20,000 | | | | 42,000 | 130 | R, T |
| 54 | 1,755 | | 50,000 | | | | 100 | T |
| 92 | 875 | | 36,000 | 36,000 | | | 100 | - |
| 103 | 400 | | 12,000 | | | | 67 | - |
| 109 | 400 | | 14,000 | | | | 12 | - |
| 56 | 400 | | 10,000 | | | | 100 | - |
| 112 | 1,400 | | | 18,000 | | | | - |

| | | | | | | | | |
|------|-----|--------|--------|--------|--|---------|--|--|
| Ave. | 541 | 18,250 | 25,143 | 31,333 | | 164,330 | | |
|------|-----|--------|--------|--------|--|---------|--|--|

| | | | | | | | | |
|------|--------|--|--|--|--|-----------|--|--|
| Tot. | 17,850 | | | | | 4,436,900 | | |
|------|--------|--|--|--|--|-----------|--|--|

ALL FACILITIES

| | | | | | | | | |
|------|-----|--------|--------|--------|--------|-----------|--|--|
| Ave. | 602 | 23,670 | 30,667 | 27,250 | 18,200 | 1,382,957 | | |
|------|-----|--------|--------|--------|--------|-----------|--|--|

| | | | | | | | | |
|------|--------|--|--|--|--|------------|--|--|
| Tot. | 33,739 | | | | | 67,764,900 | | |
|------|--------|--|--|--|--|------------|--|--|

Date: 10/07/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: KASKASKIA RIVER

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) To Barge from Storage Truck Rail | | Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|-------------------------|--------------|--|--|--|---|------------------------------|---------------------|
| <u>MINOR FACILITIES</u> | | | | | | | |
| 0 | 195 | 9,000 | | | 265,000 | | T |
| Ave. | 195 | 9,000 | | | 265,000 | | |
| Tot. | 195 | | | | 265,000 | | |
| <u>ALL FACILITIES</u> | | | | | | | |
| Ave. | 195 | 9,000 | | | 265,000 | | |
| Tot. | 195 | | | | 265,000 | | |

Date: 10/17/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) | Holding Fleet @ Dock | Holding Fleet Near | Elev. Svc. (R/T) |
|-------------------------|---------------|----------------------|--------------------|------------------------|--------------------|-----------------------------|----------------------|--------------------|------------------|
| | | To Barge | from Storage Truck | From Barge | to Storage Tr/Rail | Flat & Elev. | | | |
| <u>MAJOR FACILITIES</u> | | | | | | | | | |
| 124 | 730 | 1,800 | | | | 7,000,000 | | | R/T |
| 51 | 450 | 10,000 | | 10,000 | | 6,000,000 | | | R/T |
| 111 | 540 | 5,000 | | 10,000 | | 5,000,000 | | | R/T |
| 75 | 176 | 15,000 | | | 21,000 | 4,800,000 | | | R/T |
| 21 | 600 | 8,000 | | | | 4,800,000 | | | R/T |
| 20 | 415 | 15,000 | | 6,000 | | 3,600,000 | | | T |
| 104 | 500 | 40,000 | | | | 3,120,000 | | | f |
| 112 | 650 | 25,000 | | | | 2,800,000 | | | T |
| 93 | 540 | 18,000 | | | | 2,700,000 | | | T |
| 20 | 250 | 17,000 | | 9,000 | | 2,500,000 | | | R/T |
| 91 | 470 | 10,000 | | 6,000 | | 2,315,000 | | | R/T |
| 60 | 590 | 30,000 | | | | 2,100,000 | | | T |
| 101 | 666 | 15,000 | | | | 2,000,000 | | | T |
| 59 | 530 | 15,000 | | | | 1,846,000 | | | T |
| 69 | 180 | 9,000 | | | | 1,750,000 | | | R/T |
| 47 | 225 | 25,000 | | | | 1,600,000 | | | R/T |
| 14 | 240 | 30,000 | | 7,000 | | 1,500,000 | | | T |
| 63 | 350 | 12,000 | | 5,500 | | 1,400,000 | | | T |
| 32 | 240 | 8,000 | | 11,000 | | 1,325,000 | | | R/T |
| 100 | 170 | 15,000 | | | | 1,300,000 | | | T |
| 3 | 540 | 15,000 | 13,500 | | | 1,285,000 | | | T |
| 55 | 420 | 15,000 | | | | 1,208,000 | | | T |
| 101 | 100 | 10,000 | | | | 1,200,000 | | | T |
| 57 | 250 | 15,000 | | 5,000 | | 1,200,000 | | | T |
| 65 | 380 | 15,000 | | | | 1,040,000 | | | T |
| 66 | 650 | 12,000 | | | | 1,000,000 | | | T |
| 34 | 195 | 10,000 | | | | 1,000,000 | | | R/T |
| 85 | 360 | 18,000 | | | | 935,000 | | | T |
| 97 | 425 | 20,000 | | | | 900,000 | | | T |
| 58 | 200 | 15,000 | | | | 900,000 | | | T |
| 26 | 190 | 10,000 | | 4,000 | | 750,000 | | | T |
| 50 | 200 | 50,000 | | | | 750,000 | | | R/T |
| 64 | 540 | 15,000 | | | | 750,000 | | | T |
| 19 | 185 | 20,000 | | | | 590,000 | | | T |
| 66 | 300 | 10,000 | | | | 560,000 | | | T |
| 56 | 260 | 35,000 | | | | 550,000 | | | T |
| 80 | 250 | 18,000 | | | | 544,000 | | | T |
| Ave. | 377 | 16,941 | 13,500 | 21,000 | 7,350 | 2,016,703 | | | |
| Tot. | 13,957 | | | | | 74,618,000 | | | |

Date: 10/17/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) | |
|-------------------------|--------------|----------------------|--------------------|------------------------|--------------------|--|---------------------------|------------------|--|
| | | To Barge | from Storage Truck | From Barge | to Storage Tr/Rail | | | | |
| <u>MINOR FACILITIES</u> | | | | | | | | | |
| 68 | 195 | | 4,000 | | | 780,000 | | T | |
| 87 | 460 | | 18,000 | | | 740,000 | | T | |
| 120 | 240 | | 6,500 | | | 720,000 | | R/T | |
| 95 | 360 | | 10,000 | | | 490,000 | | T | |
| 103 | 265 | | 20,000 | | | 386,000 | | T | |
| 106 | 290 | | 10,000 | | | 320,000 | | T | |
| 61 | 195 | | 22,000 | | | 280,000 | | T | |
| 35 | 130 | | | | 1,000 | 250,000 | | R/T | |
| 58 | 180 | | 15,000 | | | 200,000 | | T | |
| 57 | 250 | | 15,000 | | | 127,000 | 24 | T | |
| 49 | 142 | | | 3,000 | | 110,000 | | R/T | |
| 117 | 300 | | 7,000 | | | 110,000 | | R | |
| 29 | 250 | | 1,670 | | | 61,000 | | R/T | |
| 109 | 540 | | 11,000 | | | 50,000 | | T | |
| 95 | 780 | | 15,000 | | | | | T | |
| 118 | 358 | | 5,250 | | | | | T | |
| 116 | 314 | | | 20,000 | | | | T | |
| Ave. | 309 | 11,459 | 11,500 | | 1,000 | 330,286 | | | |
| Tot. | 5,249 | | | | | 4,624,000 | | | |

ALL FACILITIES

| | | | | | | | | |
|-------------|---------------|---------------|---------------|---------------|--------------|-------------------|--|--|
| Ave. | 356 | 15,436 | 12,167 | 21,000 | 6,773 | 1,553,765 | | |
| Tot. | 19,206 | | | | | 79,242,000 | | |

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO TO MISSOURI RIVER)

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) | |
|-------------------------|--------------|----------------------|--------------------|------------------------|--------------------|--|---------------------------|------------------|--|
| | | To Barge | from Storage Truck | From Barge | to Storage Tr/Rail | | | | |
| <u>MAJOR FACILITIES</u> | | | | | | | | | |
| 19 | 700 | 20,000 | | | | 5,000,000 | | R/T | |
| 125 | 1,400 | 18,000 | | | | 4,000,000 | | R/T | |
| 26 | 900 | 30,000 | | 4,500 | | 2,500,000 | | R/T | |
| 85 | 1,850 | 27,000 | | | 5,000 | 2,235,000 | | R/T | |
| 168 | 345 | 10,000 | | | | 1,500,000 | | T | |
| 6 | 175 | 12,000 | | | | 1,100,000 | | R/T | |
| Ave. | 895 | 19,500 | | 4,500 | 5,000 | 2,722,500 | | | |
| Tot. | 5,370 | | | | | 16,335,000 | | | |
| <u>MINOR FACILITIES</u> | | | | | | | | | |
| 169 | 370 | 7,000 | | | | 963,000 | | T | |
| 9 | 200 | 8,000 | | | | 580,000 | | T | |
| 1 | 175 | 5,500 | | | | 574,000 | | T | |
| 163 | 250 | 6,200 | | | | 450,000 | | T | |
| 170 | 315 | 15,000 | | | | 146,000 | | T | |
| 22 | 1,000 | 25,000 | | | | | | T | |
| 88 | 875 | | | 6,000 | | | | R | |
| Ave. | 455 | 11,117 | | 6,000 | | 542,600 | | | |
| Tot. | 3,185 | | | | | 2,713,000 | | | |
| <u>ALL FACILITIES</u> | | | | | | | | | |
| Ave. | 658 | 15,308 | | 5,250 | 5,000 | 1,731,636 | | | |
| Tot. | 8,555 | | | | | 19,048,000 | | | |

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO
MINNEAPOLIS)

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|-------------------------|--------------|-----------------------------|--------|-------------------------------|--|--|---------------------------|------------------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Tr/Rail | | | | |
| <u>MAJOR FACILITIES</u> | | | | | | | | |
| 79 | 570 | 24,000 | | | | 5,300,000 | | R/T |
| 22 | 400 | 25,000 | | | | 5,000,000 | | R/T |
| 101 | 650 | 15,000 | | | | 5,000,000 | | R/T |
| 9 | 260 | 20,000 | | | | 2,800,000 | | T |
| 66 | 1,000 | 10,000 | | | | 2,500,000 | | R/T |
| 241 | 180 | 10,000 | | | | 2,500,000 | | T |
| 1 | 600 | 20,000 | | | | 2,300,000 | | T |
| 86 | 400 | 25,000 | | | | 2,000,000 | | R/T |
| 141 | 3,500 | 25,000 | | | | 2,000,000 | | T/R |
| 7 | 600 | 19,000 | | | | 1,850,000 | | T |
| 58 | 390 | 17,000 | | 18,000 | | 1,800,000 | | R/T |
| 13 | 1,000 | 25,000 | | | | 1,590,000 | | T |
| 75 | 585 | 18,000 | | | | 1,465,000 | | R/T |
| 158 | 780 | 30,000 | | | | 1,250,000 | | R/T |
| 216 | 950 | 28,000 | 20,000 | | | 1,232,000 | | R/T |
| 245 | 525 | 25,000 | | | | 1,200,000 | | T |
| 213 | 750 | 16,000 | | | | 1,100,000 | | R/T |
| 251 | 420 | 9,500 | | | | 1,000,000 | | R/T |
| 228 | 500 | 15,000 | | | | 1,000,000 | | R/T |
| 223 | 1,000 | 28,000 | | | | 860,000 | | T |
| 209 | 430 | 25,000 | | | | 850,000 | | R/T |
| 202 | 590 | 40,000 | | | | 750,000 | | R/T |
| 8 | 400 | 32,500 | | | | 723,000 | | T |
| 143 | 300 | 25,000 | | | | 650,000 | | R/T |
| 38 | 400 | 35,000 | | | | 650,000 | | T |
| 23 | 1,200 | 40,000 | | | | 535,000 | | R/T |
| 60 | 750 | | 7,000 | | | | | R |
| Ave. | 709 | 23,154 | 13,500 | 18,000 | | 1,842,500 | | |
| Tot. | 19,130 | | | | | 47,905,000 | | |

Date: 10/17/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO
MINNEAPOLIS)

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|-------------------------|--------------|----------------------|--------------------|------------------------|--------------------|--|---------------------------|------------------|
| | | To Barge | from Storage Truck | From Barge | to Storage Tr/Rail | | | |
| <u>MINOR FACILITIES</u> | | | | | | | | |
| 14 | 300 | | 5,000 | | | 510,000 | | T |
| 225 | 400 | | 22,000 | | | 412,000 | | T |
| 15 | 1,365 | | 27,500 | | | 350,000 | | T |
| 149 | 300 | | 30,000 | | | 350,000 | | T |
| 204 | 1,500 | | 25,000 | | | 350,000 | | R/T |
| 27 | 600 | | 60,000 | | | 324,000 | | R/T |
| 147 | 400 | | 35,000 | | | 300,000 | | R/T |
| 96 | 400 | | 20,000 | 20,000 | 40,000 | 300,000 | | R/T |
| 159 | 780 | | 20,000 | | | 300,000 | | T |
| 167 | 900 | | 25,000 | | | 300,000 | | R/T |
| 12 | 525 | | 18,000 | | | 280,000 | | T |
| 181 | 650 | | 22,000 | | | 250,000 | | T |
| 62 | 932 | | 60,000 | 5,400 | 24,000 | 240,000 | | R/T |
| 231 | 200 | | 30,000 | | | 230,000 | | T |
| 70 | 500 | | 15,000 | | | 200,000 | | T |
| 236 | 550 | | 15,000 | | | 200,000 | | R/T |
| 198 | 400 | | 8,000 | | | 150,000 | | T |
| 11 | 435 | | 18,000 | | | 140,000 | | T |
| 16 | 600 | | 15,000 | 4,550 | | 130,000 | | T |
| 165 | 254 | | 30,000 | | | 54,000 | | T |
| 128 | 1,400 | | | 15,000 | 15,000 | | | R |
| 179 | 450 | | | 10,000 | 10,000 | | | R/T |
| 32 | 1,100 | | | 15,000 | | | | T |
| 184 | 200 | | | | 10,000 | | | R |
| 233 | 300 | | | 40,000 | | | | T |
| 235 | 195 | | | 14,000 | | | | T |
| 148 | 300 | | | 12,000 | | | | T |
| 132 | 1,600 | | | 20,000 | 20,000 | | | R/T |
| 5 | 700 | | | 25,000 | | | | T |
| 92 | 200 | | | 10,000 | | | | T |
| 161 | 600 | | | | 15,000 | | | R |
| <hr/> | | | | | | | | |
| Ave. | 614 | 25,025 | 15,913 | 19,143 | | 268,500 | | |
| <hr/> | | | | | | | | |
| Tot. | 19,036 | | | | | 5,370,000 | | |
| <hr/> | | | | | | | | |

ALL FACILITIES

| | | | | | | | | |
|------|--------|--------|--------|--------|--------|------------|--|--|
| Ave. | 658 | 23,967 | 15,913 | 17,889 | 18,000 | 1,158,152 | | |
| Tot. | 38,166 | | | | | 53,275,000 | | |

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: MISSOURI RIVER

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) To Barge from Storage Truck Rail | | Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|-------------------------|--------------|---|--------------|--|---|------------------------------|------------------|
| MAJOR FACILITIES | | | | | | | |
| 52 | 600 | 30,000 | | | 10,000,000 | | R/T |
| 54 | 900 | 19,000 | | | 10,000,000 | | R/T |
| 43 | 850 | 20,000 | | | 4,300,000 | | R/T |
| 67 | 190 | 20,000 | | | 3,944,000 | | R/T |
| 85 | 700 | 14,000 | | | 1,600,000 | | R/T |
| 58 | 250 | 14,000 | | | 1,593,000 | 1600 | R/T |
| 22 | 200 | 7,000 | | | 1,500,000 | | R/T |
| 28 | 600 | 20,000 | | | 1,380,000 | | R/T |
| 76 | 200 | 5,000 | | | 1,024,000 | | R/T |
| 29 | 195 | 5,000 | | | 1,000,000 | 130 | R/T |
| 74 | 550 | 10,000 | | | 956,000 | | R/T |
| 62 | 175 | 18,000 | | | 950,000 | | R/T |
| 44 | 430 | 18,000 | | | 900,000 | | R/T |
| 73 | 280 | 6,000 | | | 842,000 | | R/T |
| 69 | 195 | 5,000 | | | 800,000 | | T |
| 26 | 195 | 4,500 | | | 741,000 | | T |
| Ave. | 407 | 13,469 | | | 2,595,625 | | |
| Tot. | 6,510 | | | | 41,530,000 | | |
| MINOR FACILITIES | | | | | | | |
| 78 | 110 | | | | 854,000 | | T |
| 32 | 180 | 4,000 | | | 450,000 | | R/T |
| 72 | 195 | 13,000 | | | 357,000 | | R/T |
| 80 | 825 | 11,000 | | | 250,000 | | T |
| 106 | 900 | 8,000 | 8,000 | | 200,000 | | R/T |
| 19 | 300 | 5,000 | | | | | T |
| 102 | 200 | 5,000 | | | | | T |
| 89 | 150 | 3,600 | | | | | T |
| Ave. | 358 | 9,000 | 5,400 | | 422,200 | | |
| Tot. | 2,860 | | | | 2,111,000 | | |
| ALL FACILITIES | | | | | | | |
| Ave. | 390 | 12,575 | 5,400 | | 2,078,143 | | |
| Tot. | 9,370 | | | | 43,641,000 | | |

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|-------------------------|--------------|----------------------|--------------------|------------------------|--------------------|--|---------------------------|------------------|
| | | To Barge | from Storage Truck | From Barge | to Storage Tr/Rail | | | |
| MAJOR FACILITIES | | | | | | | | |
| 241 | 737 | | | | 30,000 | 4,000,000 | | R, T |
| 226 | 380 | 40,000 | | | | 3,600,000 | | R, T |
| 62 | 250 | 30,000 | | | | 3,500,000 | | T |
| 208 | 740 | 67,000 | | | | 2,600,000 | | R, T |
| 124 | 525 | 20,000 | | | | 2,000,000 | | R, T |
| 197 | 260 | 25,000 | | | | 1,800,000 | | R, T |
| 218 | 260 | 25,000 | | | | 1,800,000 | | R, T |
| 133 | 150 | 15,000 | | | | 1,400,000 | | R, T |
| | 400 | 20,000 | | | | 1,300,000 | | R, T |
| 215 | 360 | | | 2,500 | | 1,200,000 | | T |
| 58 | 130 | 12,000 | | | | 1,000,000 | | T |
| 199 | 180 | 30,000 | | | | 900,000 | | R, T |
| 111 | 250 | 20,000 | | | | 520,000 | | T |
| 152 | 600 | | | | 33,000 | | | R |
| Ave. | 373 | 27,636 | | 33,000 | 16,250 | 1,970,769 | | |
| Tot. | 5,222 | | | | | 25,620,000 | | |

| | | | | | | | | |
|-------------------------|--------------|---------------|---------------|---------------|--|------------------|--|------|
| MINOR FACILITIES | | | | | | | | |
| 55 | 200 | | 9,000 | | | 1,250,000 | | T |
| 203 | 175 | 15,000 | | | | 350,000 | | T |
| 142 | 175 | 15,000 | | | | 320,000 | | R, T |
| 30 | 560 | 35,000 | | | | 300,000 | | T |
| 191 | 100 | 11,000 | | | | 260,000 | | T |
| 97 | 150 | 12,000 | | | | 240,000 | | R, T |
| 94 | 325 | 10,000 | | | | 210,000 | | T |
| 121 | 350 | 20,000 | | | | 160,000 | | T |
| 144 | 300 | 10,000 | | | | 150,000 | | T |
| 154 | 100 | 16,700 | | | | 150,000 | | T |
| 238 | 442 | 50,000 | 50,000 | 50,000 | | 120,000 | | R, T |
| 237 | 380 | 35,000 | | | | 115,000 | | R, T |
| 162 | 190 | 20,000 | | | | 100,000 | | T |
| 94 | 150 | | 7,100 | | | 44,000 | | T |
| 119 | 195 | 6,600 | 6,600 | | | 30,000 | | T |
| 74 | 425 | | | | | | | T |
| 231 | 200 | | 18,000 | | | | | T |
| Ave. | 260 | 19,715 | 18,140 | 50,000 | | 253,267 | | |
| Tot. | 4,417 | | | | | 3,799,000 | | |

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) To Barge from Storage Truck | Rail | Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|----------|--------------|--|------|--|--|---------------------------|------------------|
|----------|--------------|--|------|--|--|---------------------------|------------------|

ALL FACILITIES

| | | | | | | | |
|------|-------|--------|--------|--------|--------|------------|--|
| Ave. | 311 | 23,346 | 18,140 | 41,500 | 16,250 | 1,050,679 | |
| Tot. | 9,639 | | | | | 29,419,000 | |

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: OUACHITA - BLACK RIVERS

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) To Barge from Storage Truck | | Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|----------|--------------|--|--|--|---|------------------------------|------------------|
|----------|--------------|--|--|--|---|------------------------------|------------------|

MAJOR FACILITIES

| | | | | | | | |
|-------------|-----|--------|--------|--|-----------|--|---|
| 4 | 390 | 33,000 | | | 3,000,000 | | T |
| 3 | 675 | 20,000 | | | 2,000,000 | | T |
| <u>Ave.</u> | | 533 | 26,500 | | 2,500,000 | | |
| <u>Tot.</u> | | 1,065 | | | 5,000,000 | | |

ALL FACILITIES

| | | | | | | | |
|-------------|--|-------|--------|--|-----------|--|--|
| <u>Ave.</u> | | 533 | 26,500 | | 2,500,000 | | |
| <u>Tot.</u> | | 1,065 | | | 5,000,000 | | |

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: WHITE RIVER

| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|-------------------------|--------------|-----------------------------|------|-------------------------------|------|--|---------------------------|------------------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Tr/Rail | Rail | | | |
| <u>MAJOR FACILITIES</u> | | | | | | | | |
| 1 | 400 | 10,000 | | | | 3,000,000 | | T |
| 11 | 285 | 20,000 | | | | 2,200,000 | | T |
| 6 | 380 | 15,000 | | | | 2,100,000 | | T |
| 5 | 210 | 28,000 | | | | 1,600,000 | | T |
| 12 | 390 | 8,000 | | | | 1,500,000 | | T |
| 8 | 200 | 16,000 | | | | 1,400,000 | | T |
| 9 | 335 | 20,000 | | | | 1,020,000 | | T |
| Ave. | 314 | 16,714 | | | | 1,831,429 | | |
| Tot. | 2,200 | | | | | 12,820,000 | | |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Ave. | 314 | 16,714 | | | | 1,831,429 | | |
| Tot. | 2,200 | | | | | 12,820,000 | | |

Date: 10/06/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: TENNESSEE RIVER

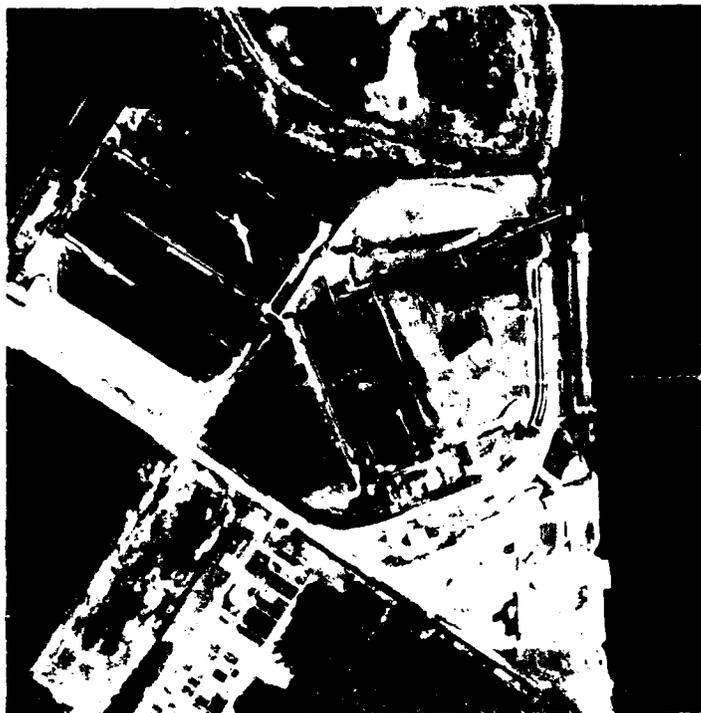
| Ref. No. | Berth Length | Loading Rate (Bu/Hr) | | Unloading Rate (Bu/Hr) | | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|-------------------------|---------------|-----------------------------|---------------|-------------------------------|--------------|--|---------------------------|------------------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Tr/Rail | | | | |
| <u>MAJOR FACILITIES</u> | | | | | | | | |
| 99 | 575 | 15,000 | | 15,000 | | 7,600,000 | | R, T |
| 114 | 195 | | | 10,000 | | 3,000,000 | | R, T |
| 159 | 1,100 | 8,000 | | 8,000 | | 2,147,000 | | R, T |
| 158 | 512 | | | 8,000 | | 2,000,000 | | R, T |
| 101 | 250 | 8,000 | | 8,000 | | 1,800,000 | | R, T |
| 19 | 195 | 12,000 | | | | 1,700,000 | | T |
| 53 | 530 | 15,000 | | | | 1,500,000 | | R, T |
| 116 | 380 | | | 7,000 | | 1,000,000 | | R, T |
| 24 | 195 | 10,000 | 10,000 | | | 600,000 | | T |
| 112 | 610 | 5,000 | | 1,000 | | 550,000 | | R, T |
| 44 | 480 | 22,000 | | | | 500,000 | | T |
| 90 | 350 | | | 6,000 | | 400,000 | | R, T |
| Ave. | 448 | 11,875 | 10,000 | 7,875 | | 1,899,750 | | |
| Tot. | 5,372 | | | | | 22,797,000 | | |
| <u>MINOR FACILITIES</u> | | | | | | | | |
| 98 | 300 | 10,000 | | 9,000 | | 400,000 | | R, T |
| 156 | 400 | | | 10,000 | | 355,000 | | R, T |
| 68 | 195 | 8,000 | | | | 290,000 | | T |
| 108 | 290 | 7,000 | | 7,000 | | 220,000 | | R |
| 121 | 580 | | | 3,500 | | 130,000 | | R, T |
| 113 | 275 | | 4,000 | | 4,000 | 110,000 | | T |
| 189 | 688 | | | 2,000 | | 100,000 | | R, T |
| 142 | 490 | | 1,000 | | | | | T |
| 14 | 200 | | 20,000 | | | | | T |
| 81 | 1,385 | | 1,100 | | | | | T |
| 148 | 195 | | | | 10,000 | | | T |
| 87 | 530 | 20,000 | | | | | | R, T |
| Ave. | 461 | 11,250 | 6,525 | 6,300 | 7,000 | 229,286 | | |
| Tot. | 5,528 | | | | | 1,605,000 | | |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Ave. | 454 | 11,667 | 7,220 | 7,269 | 7,000 | 1,284,316 | | |
| Tot. | 10,900 | | | | | 24,402,000 | | |

Date: 10/17/88

SUMMARY OF GRAIN-HANDLING BARGE FACILITIES

WATERWAY: TENNESSEE-TOMBIGBEE WATERWAY

| Ref. Berth No. | Berth Length | Loading Rate (Bu/Hr) To Barge from Storage Truck | Unloading Rate (Bu/Hr) From Barge to Storage Tr/Rail | Total Storage Capacity (Bu) Flat & Elev. | Holding Fleet @ Dock Near | Elev. Svc. (R/T) |
|-------------------------|--------------|--|--|--|---------------------------|------------------|
| MAJOR FACILITIES | | | | | | |
| 21 | 200 | 5,000 | | 1,000,000 | 117 | T |
| 14 | 500 | 10,000 | 3,000 | 730,000 | | T |
| 10 | 400 | 15,000 | | 507,000 | | T |
| Ave. | 367 | 10,000 | 3,000 | 745,667 | | |
| Tot. | 1,100 | | | 2,237,000 | | |
| MINOR FACILITIES | | | | | | |
| 15 | 385 | 16,000 | 3,500 | 325,000 | | R, T |
| 16 | 200 | 10,000 | | 135,000 | | T |
| 3 | 1,000 | | 3,500 | | | R |
| Ave. | 528 | 13,000 | 3,500 | 230,000 | | |
| Tot. | 1,585 | | | 460,000 | | |
| ALL FACILITIES | | | | | | |
| Ave. | 448 | 11,200 | 3,500 | 539,400 | | |
| Tot. | 2,685 | | | 2,697,000 | | |



COAL HANDLING TERMINALS

Transfer rates between barge and truck, rail and/or storage areas are given when available. Facilities are arranged according to on-site open storage area and grouped according to extent of operation. In some instances, the total open storage areas indicated are not necessarily available for coal storage at any given time. Facilities are subdivided into 3 categories generally based upon storage capacities. Major Facilities handle coal or coke exclusively or as a major commodity usually associated with power plant, mine or heavy industrial usage. Minor Facilities handle lesser amounts of coal and usually with slower rates. Sporadic Facilities are identified as those where coal is not necessarily the major commodity handled nor is there any specific area dedicated to coal storage. Also, smaller facilities operating on a non-regular, intermittent basis usually fall into this category.

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: ALLEGHENY RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | Remrks |
|-----------------------------------|-------------------|------------------------|------------------|--------------------------|------|---------------------------|---------|--------|
| | | To Storage | Barge from Truck | From Barge to Storage | Rail | Open | Covered | |
| <u>MAJOR FACILITIES</u> | | | | | | | | |
| 237 | 2,450 | | | 1,500 | | 322,000 | | |
| 233 | 1,095 | | | 150 | | 410,000 | | |
| Avg. | 1,773 | | | 825 | | 366,000 | | |
| Tot. | 3,545 | | | | | 732,000 | | |
| <u>MINOR FACILITIES</u> | | | | | | | | |
| 227 | 400 | | | | | 100,000 | | |
| 229 | 350 | 800 | | | | 500,000 | | |
| Avg. | 375 | 800 | | | | 300,000 | | |
| Tot. | 750 | | | | | 600,000 | | |
| <u>SPORADIC FACILITIES</u> | | | | | | | | |
| 212 | 1,000 | | | | | | | I |
| 216 | 835 | | | | | 300,000 | | |
| 220 | 350 | 200 | 200 | | | 20,000 | | |
| 231 | 195 | | 200 | | | | | 5 Acre |
| Avg. | 595 | 200 | 200 | | | 160,000 | | |
| Tot. | 2,380 | | | | | 320,000 | | |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Avg. | 834 | 500 | 200 | 825 | | 275,333 | | |
| Tot. | 6,675 | | | | | 1,652,000 | | |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR-ARKANSAS RIVER NAVIGATION SYSTEM)

| Ref. Berth No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|----------------|-------------------|----------------------|--------------------|------------------------|------------------|---------------------------|---------|--------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | |

MINOR FACILITIES

| | | | | | | | | |
|------|-------|-----|-----|--|-----|--------|--|---|
| 70 | 400 | 700 | | | | 6,000 | | |
| 91 | 400 | | 400 | | | | | |
| 71 | 300 | 300 | 300 | | | 4,500 | | I |
| 74 | 200 | | | | 250 | | | |
| 86 | 200 | 250 | | | | 20,000 | | |
| 90 | 190 | | 400 | | | | | |
| Avg. | 282 | 417 | 367 | | 250 | 10,167 | | |
| Tot. | 1,690 | | | | | 30,500 | | |

SPORADIC FACILITIES

| | | | | | | | | |
|------|-------|--|--|--|--|--|--|--|
| 67 | 1,400 | | | | | | | |
| 80 | 340 | | | | | | | |
| 65 | 250 | | | | | | | |
| Avg. | 663 | | | | | | | |
| Tot. | 1,990 | | | | | | | |

ALL FACILITIES

| | | | | | | | | |
|------|-------|-----|-----|--|-----|--------|--|--|
| Avg. | 409 | 417 | 367 | | 250 | 10,167 | | |
| Tot. | 3,680 | | | | | 30,500 | | |

Date: 10/13/88

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER SYSTEM)

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | Remrks |
|-------------------------|-------------------|------------------------|--------------------|--------------------------|------------------|---------------------------|-----------|--------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | |
| MAJOR FACILITIES | | | | | | | | |
| 50 | 2,600 | | 2,200 | | 1,200 | | 1,000,000 | |
| 42 | 2,000 | | | | 1,900 | | 1,300,000 | 2 un1 |
| 81 | 1,800 | | 870 | | | | 600,000 | |
| 35 | 780 | | | | 400 | | 500,000 | |
| 63 | 660 | | 1,000 | | | | 200,000 | |
| 82 | 420 | | 1,000 | | | | 1,000,000 | |
| 83 | 420 | | 1,200 | | | | | use 82 |
| 78 | 400 | | 1,150 | | | | 150,000 | |
| 80 | 400 | | 1,550 | | | | 150,000 | |
| 65 | 300 | | 1,500 | | | | 54,000 | |
| 62 | 225 | | 2,000 | | | | 30,000 | |
| 61 | 200 | | 1,000 | | | | 20,000 | |
| 64 | 200 | | 1,000 | | | | 2,000 | |
| Avg. | 800 | | 1,315 | | 1,167 | | 417,167 | |
| Tot. | 10,405 | | | | | | 5,006,000 | |
| MINOR FACILITIES | | | | | | | | |
| 88 | 1,000 | | 800 | | 500 | | 150,000 | |
| 73 | 800 | | 2,200 | | 600 | | 200,000 | |
| 90 | 600 | | 1,200 | | | | 100,000 | |
| 74 | 400 | | | 1,000 | | | | use 73 |
| 76 | 400 | | 2,200 | 1,150 | | | 50,000 | |
| 52 | 200 | | 500 | | | | 40,000 | |
| 87 | 200 | | 1,000 | | | | 150,000 | |
| Avg. | 514 | | 1,317 | 1,075 | 600 | 500 | 115,000 | |
| Tot. | 3,600 | | | | | | 690,000 | |
| ALL FACILITIES | | | | | | | | |
| Avg. | 700 | | 1,316 | 1,075 | 600 | 1,000 | 316,444 | |
| Tot. | 14,005 | | | | | | 5,696,000 | |

Date: 10/12/88

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: CUMBERLAND RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|--------------------------------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|---------|--------|
| | | To Storage | from Barge Truck | From Storage | to Barge Truck | Open | Covered | |
| <u>MINOR FACILITIES</u> | | | | | | | | |
| 15 | 5,000 | 2,200 | | 4,000 | | 3,000,000 | | |
| 47 | 1,570 | 1,500 | | | | | | 5 Acre |
| 32 | 110 | 110 | | | | 2,000,000 | | |
| Avg. | 2,227 | 1,270 | | 4,000 | | 2,500,000 | | |
| Tot. | 6,680 | | | | | 5,000,000 | | |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Avg. | 2,227 | 1,270 | | 4,000 | | 2,500,000 | | |
| Tot. | 6,680 | | | | | 5,000,000 | | |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: GREEN RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|----------------------------|-------------------|----------------------|------------------|------------------------|---------------|---------------------------|---------|--------|
| | | To Storage | from Barge Truck | From Storage | to Barge Rail | Open | Covered | |
| MAJOR FACILITIES | | | | | | | | |
| 77 | 3,384 | | | 4,000 | | 2,000,000 | | |
| 68 | 2,625 | | | 800 | | 400,000 | | |
| 75 | 1,600 | | | | 1,800 | | | Mine |
| 76 | 1,400 | 1,100 | | | | 30,000 | | |
| 86 | 1,365 | | | 2,000 | | 750,000 | | |
| 67 | 875 | | | 1,600 | | 400,000 | | |
| 79 | 575 | 3,000 | | | | 80,000 | | |
| 71 | 270 | 3,000 | | | | 100,000 | | |
| Avg. | 1,512 | 2,367 | | 1,800 | 2,100 | 537,143 | | |
| Tot. | 12,094 | | | | | 3,760,000 | | |
| MINOR FACILITIES | | | | | | | | |
| 66 | 1,440 | | | 300 | | 51,000 | | |
| 80 | 600 | 1,200 | | | | 50,000 | | |
| 83 | 500 | 800 | | | | 24,000 | | |
| 69 | 350 | | 500 | | | | | |
| 84 | 300 | 3,000 | | | | 30,000 | | |
| 82 | 240 | | 700 | | | | | |
| 74 | 200 | | | | | 150,000 | | I |
| 73 | 195 | 750 | | | | 25,000 | | |
| 81 | 195 | | | | | | | I |
| 70 | 175 | 2,100 | | | | 60,000 | | |
| Avg. | 420 | 1,570 | 600 | | 300 | 55,714 | | |
| Tot. | 4,195 | | | | | 390,000 | | |
| SPORADIC FACILITIES | | | | | | | | |
| 78 | 300 | | | | | 15,000 | | I |
| Avg. | 300 | | | | | 15,000 | | |
| Tot. | 300 | | | | | 15,000 | | |
| ALL FACILITIES | | | | | | | | |
| Avg. | 873 | 1,869 | 600 | 1,800 | 1,740 | 277,667 | | |
| Tot. | 16,589 | | | | | 4,165,000 | | |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: GULF INTRACOASTAL WATERWAY (EAST END to MILE 5W)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|----------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|---------|--------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Open | Covered | |

MINOR FACILITIES

| | | | | | | | | |
|------|-------|-------|--|-------|--|--------|--|-----|
| 51 | 2,235 | 2,000 | | 1,200 | | 30,000 | | |
| 42 | 840 | | | 3,000 | | 38,000 | | |
| 45 | 324 | | | | | | | 600 |
| Avg. | 1,133 | 2,000 | | 2,100 | | 34,000 | | 600 |
| Tot. | 3,399 | | | | | 68,000 | | 600 |

ALL FACILITIES

| | | | | | | | | |
|------|-------|-------|--|-------|--|--------|--|-----|
| Avg. | 1,133 | 2,000 | | 2,100 | | 34,000 | | 600 |
| Tot. | 3,399 | | | | | 68,000 | | 600 |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY (Including barge facilities at the port of Chicago)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|----------|-------------------|----------------------|------------------|------------------------|---------------|---------------------------|---------|--------|
| | | To Storage | From Barge Truck | From Barge to Storage | To Truck Rail | Open | Covered | |

MAJOR FACILITIES

| | | | | | | | | |
|------|--------|-------|-----|-------|-------|-----------|--|--------|
| 181 | 2,865 | | | | 200 | | | 20Acre |
| 117 | 2,840 | | | | 1,200 | 1,000,000 | | |
| 16 | 2,050 | | | | 500 | 120,000 | | |
| 22 | 1,560 | 1,500 | | 3,000 | | 150,000 | | 3 Acre |
| 54 | 1,422 | | | | 1,200 | 990,000 | | |
| 71 | 1,270 | | 750 | | | 25,000 | | coke |
| 116 | 1,225 | | 725 | | | | | coke |
| 142 | 1,200 | | | 700 | | | | Inactv |
| 48 | 1,110 | | | | 400 | 175,000 | | |
| 39 | 1,075 | 400 | | | 400 | 250,000 | | |
| 175 | 1,020 | | 200 | | | | | 30Acre |
| 10 | 950 | | | | 850 | 250,000 | | |
| 79 | 865 | | | | 300 | | | 3 Acre |
| 38 | 813 | | | | 800 | | | |
| Avg. | 1,448 | 950 | 558 | 1,850 | 650 | 370,000 | | |
| Tot. | 20,265 | | | | | 2,960,000 | | |

MINOR FACILITIES

| | | | | | | | | |
|------|-------|-----|-----|-----|-----|---------|--------|--------|
| 112 | 1,400 | | 150 | 500 | 150 | 20,000 | | |
| 73 | 880 | | | | 175 | 3,200 | | |
| 145 | 670 | | | | 175 | 22,000 | | |
| 170 | 466 | 180 | | | | | 22,000 | coke |
| 20 | 462 | | | | 150 | | | 3 Acre |
| 55 | 200 | | | | 150 | 250,000 | | |
| 134 | 195 | | | | 260 | 35,000 | | |
| Avg. | 610 | 180 | 150 | 500 | 182 | 66,040 | 22,000 | |
| Tot. | 4,273 | | | | | 330,200 | 22,000 | |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY (Including barge facilities at the port of Chicago)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|-----------------------------------|-------------------|----------------------|------------|------------------------|----------|---------------------------|---------|--------|
| | | To Storage | from Barge | From Storage | to Barge | Open | Covered | |
| <u>SPORADIC FACILITIES</u> | | | | | | | | |
| 103 | 2,300 | | | | | | | 18Acre |
| 145 | 2,288 | | | 1,000 | | | | 13Acre |
| 199 | 1,500 | | | 200 | 200 | | | 7 Acre |
| 179 | 1,327 | | | 100 | | | | 8 Acre |
| 143 | 1,000 | | | 250 | 250 | | 50,000 | |
| 127 | 1,000 | | | | | | | 5 acre |
| 92 | 875 | 1,000 | 1,000 | | 800 | 800 | 100,000 | |
| 131 | 800 | | | 150 | 150 | 150 | 88,000 | |
| 194 | 720 | | | 150 | | | | 8 Acre |
| 104 | 580 | | | 150 | 150 | | 50,000 | |
| 5 | 400 | | | 500 | 500 | 500 | 10,000 | |
| 108 | 285 | 150 | | | 150 | | 150,000 | |
| 18 | 250 | | | | | | | |
| Avg. | 1,025 | 575 | 1,000 | 313 | 314 | 483 | 74,667 | |
| Tot. | 13,325 | | | | | | 448,000 | |

ALL FACILITIES

| | | | | | | | | | |
|------|--------|-----|-----|-------|-----|-----|-----|-----------|--------|
| Avg. | 1,114 | 693 | 496 | 1,300 | 421 | 294 | 483 | 196,747 | 22,000 |
| Tot. | 37,863 | | | | | | | 3,738,200 | 22,000 |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: KANAWHA RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|----------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|---------|--------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Open | Covered | |

MAJOR FACILITIES

| | | | | | | | | |
|------|-------|--|-------|-------|-----|-----------|--|--|
| 23 | 3,240 | | 3,300 | | | | | |
| 44 | 2,000 | | | 1,500 | | | | |
| 22 | 1,710 | | | 4,000 | | 2,000,000 | | |
| 63 | 1,200 | | | 2,000 | | | | |
| 62 | 1,050 | | | | 900 | 500,000 | | |
| Avg. | 1,840 | | 3,300 | 2,500 | 900 | 1,250,000 | | |
| Tot. | 9,200 | | | | | 2,500,000 | | |

MINOR FACILITIES

| | | | | | | | | |
|------|--------|-------|-------|-----|-----|---------|-------|-------|
| 59 | 1,960 | 400 | 400 | | 500 | 30,000 | | |
| 58 | 1,750 | 500 | 500 | | | 400 | 2,000 | MINE |
| 65 | 1,600 | 600 | | | | | | |
| 46 | 1,225 | | 1,500 | | | | | I 2ac |
| 52 | 1,000 | | 600 | | | 16,000 | | |
| 55 | 958 | | 300 | | | 3,000 | | |
| 43 | 950 | 400 | | | | 280,000 | | |
| 53 | 900 | 250 | | | | | | MINE |
| 48 | 800 | | | | | 10,000 | | |
| 40 | 800 | 250 | | | | | | I |
| 45 | 700 | | 500 | | | 3,000 | | |
| 56 | 675 | | 250 | | | 500 | | |
| 34 | 600 | | | 250 | | 1,000 | | |
| 41 | 600 | 250 | | | | | | |
| 72 | 500 | | 300 | 300 | | | | |
| 70 | 475 | 2,200 | | | 150 | 20,000 | | |
| 49 | 380 | | 275 | | | 1,000 | | |
| 50 | 380 | | 300 | | | 10,500 | | |
| 95 | 240 | 2,200 | | | 125 | 250,000 | | |
| Avg. | 868 | 783 | 493 | 275 | 258 | 48,108 | 2,000 | |
| Tot. | 16,493 | | | | | 625,400 | 2,000 | |

ALL FACILITIES

| | | | | | | | | |
|------|--------|-------|-----|-------|-----|-----------|-------|--|
| Avg. | 1,071 | 1,035 | 493 | 1,610 | 419 | 208,360 | 2,000 | |
| Tot. | 25,693 | | | | | 3,125,400 | 2,000 | |

Date: 10/11/88

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: KASKASKIA RIVER

| Ref. Berth No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|-------------------|-------------------------|--------------------------------|------|--------------------------------|------|------------------------------|---------|--------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Truck | Rail | Open | Covered | |

| | | | | | | | | |
|---|-------|--|-------|--|--|--|--|--|
| 7 | 1,000 | | 3,000 | | | | | |
|---|-------|--|-------|--|--|--|--|--|

ALL FACILITIES

| | | | | | | | | |
|------|-------|--|-------|--|--|--|--|--|
| Avg. | 1,000 | | 3,000 | | | | | |
|------|-------|--|-------|--|--|--|--|--|

| | | | | | | | | |
|------|-------|--|--|--|--|--|--|--|
| Tot. | 1,000 | | | | | | | |
|------|-------|--|--|--|--|--|--|--|

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|-----------------------------------|-------------------|----------------------|------------------|------------------------|---------------------|---------------------------|---------|--------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck Rail | Open | Covered | |
| <u>MAJOR FACILITIES</u> | | | | | | | | |
| 3 | 3,600 | | | 5,000 | | 3,600,000 | | |
| 90 | 3,255 | | | 3,600 | | 56,000 | | |
| 6 | 2,330 | | | 1,100 | | 560,000 | | |
| Avg. | 3,062 | | | 3,233 | | 1,405,333 | | |
| Tot. | 9,185 | | | | | 4,216,000 | | |
| <u>MINOR FACILITIES</u> | | | | | | | | |
| 91 | 1,740 | | | 200 | | | 15,000 | coke |
| 27 | 195 | 200 | | 200 | | | | 24 Ac |
| Avg. | 968 | 200 | | 200 | | | 15,000 | |
| Tot. | 1,935 | | | | | | 15,000 | |
| <u>SPORADIC FACILITIES</u> | | | | | | | | |
| 29 | 250 | | | | | | | 15 Ac |
| Avg. | 250 | | | | | | | |
| Tot. | 250 | | | | | | | |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Avg. | 1,895 | 200 | | 2,020 | | 1,405,333 | 15,000 | |
| Tot. | 11,370 | | | | | 4,216,000 | 15,000 | |

Date: 10/11/88

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO to MISSOURI RIVER)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|--------------------------------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|-----------|--------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Open | Covered | |
| <u>MAJOR FACILITIES</u> | | | | | | | | |
| 84 | 2,237 | 4,500 | | 4,500 | | 500,000 | | |
| 143 | 2,070 | | | | 850 | 500,000 | | |
| 8 | 1,850 | 300 | | 300 | | 500,000 | | |
| 3 | 1,700 | 5,700 | | 5,700 | | 500,000 | | |
| 25 | 1,620 | | | 1,300 | | | | |
| 4 | 900 | | | 2,200 | | | | |
| 130 | 540 | 150 | | | 150 | 150,000 | | S-ck |
| Avg. | 1,560 | 2,663 | | 2,800 | 500 | 430,000 | | |
| Tot. | 10,917 | | | | | 2,150,000 | | |
| <u>MINOR FACILITIES</u> | | | | | | | | |
| 166 | 1,000 | | | | | | | |
| 18 | 600 | | | 500 | 500 | | | +R ck |
| 135 | 395 | | | | | | | |
| 38 | 200 | | | | | | | |
| 22 | 195 | | | | | 61,000 | | ck |
| 2 | 90 | | | | | 10,000 | | |
| Avg. | 413 | | | 500 | 500 | 35,500 | | |
| Tot. | 2,480 | | | | | 71,000 | | |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Avg. | 1,031 | 2,663 | | 2,800 | 500 | 500 | 317,286 | |
| Tot. | 13,397 | | | | | | 2,221,000 | |

Date: 10/11/86

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|-------------------------|-------------------|-----------------------------|-------|-----------------------------|------|---------------------------|---------|--------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Truck | Rail | Open | Covered | |
| MAJOR FACILITIES | | | | | | | | |
| 33 | 3,280 | | | 1,200 | | 1,500,000 | | |
| 50 | 1,675 | | | 300 | | 1,000,000 | | |
| 156 | 1,400 | | | 1,250 | | 685,000 | | |
| 28 | 1,250 | | | 200 | | 500,000 | | |
| 217 | 1,200 | | | 1,000 | | 400,000 | | 4,000 |
| 29 | 885 | | | 500 | | 350,000 | | |
| 237 | 800 | 1,500 | 3,000 | | | 300,000 | | |
| 36 | 300 | | | 250 | | 1,000,000 | | |
| 26 | 240 | | | | | 1,000,000 | | |
| Avg. | 1,226 | 1,500 | 3,000 | 671 | | 748,333 | | 4,000 |
| Tot. | 11,030 | | | | | 6,735,000 | | 4,000 |

| MINOR FACILITIES | | | | | | | | |
|-------------------------|--------|-------|-------|-------|-----|-----------|--|---|
| 74 | 1,600 | 1,500 | 1,500 | | | 100,000 | | |
| 132 | 1,600 | | | 350 | | 100,000 | | |
| 204 | 1,500 | | | | | 100,000 | | |
| 128 | 1,400 | | | 700 | | 250,000 | | |
| 69 | 1,150 | | | | | 4,000 | | |
| 144 | 1,100 | | | 200 | | 300,000 | | |
| 208 | 919 | | | | | 100,000 | | |
| 167 | 900 | | | 150 | | 90,000 | | |
| 247 | 880 | | | 450 | | 15,000 | | |
| 215 | 840 | | | 500 | | 120,000 | | |
| 183 | 835 | | | 550 | | 200,000 | | |
| 93 | 800 | | | 500 | | 150,000 | | I |
| 212 | 740 | | | 200 | | 120,000 | | |
| 166 | 690 | | | 250 | | 176,000 | | |
| 230 | 656 | | | 1,000 | | 100,000 | | |
| 83 | 575 | | | 600 | | 550,000 | | |
| 63 | 500 | | | 450 | | 75,000 | | |
| 3 | 500 | | 300 | | | | | |
| 17 | 500 | | | 120 | | | | |
| 211 | 450 | | | | | 60,000 | | |
| 233 | 300 | | | | | 100,000 | | |
| 148 | 300 | | | 300 | | 120,000 | | |
| 203 | 300 | | | | | | | |
| 90 | 285 | | | | | 6,500 | | |
| 155 | 225 | | | 250 | | 65,000 | | |
| 162 | 210 | | | | | 500,000 | | |
| 234 | 160 | | | | | | | |
| 186 | 100 | | | 300 | | 60,000 | | |
| 253 | 30 | | | | | 30,000 | | |
| Avg. | 691 | 1,500 | 300 | 1,500 | 404 | 139,660 | | |
| Tot. | 20,045 | | | | | 3,491,500 | | |

Date: 10/11/88

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|----------|-------------------|----------------------|------------|------------------------|----------|---------------------------|---------|--------|
| | | To Storage | from Barge | From Storage | to Barge | Open | Covered | |

SPORADIC FACILITIES

| | | | | | | | | |
|------|-------|--|--|-------|--|--------|--|---|
| 102 | 1,150 | | | | | | | I |
| 32 | 1,100 | | | | | 60,000 | | |
| 218 | 510 | | | | | | | |
| 207 | 400 | | | | | 4,500 | | |
| 96 | 400 | | | 1,400 | | | | |
| 95 | 250 | | | | | | | |
| 224 | 200 | | | | | | | |
| 97 | 200 | | | | | | | |
| Avg. | 526 | | | 1,400 | | 32,250 | | |
| Tot. | 4,210 | | | | | 64,500 | | |

ALL FACILITIES

| | | | | | | | |
|------|--------|-------|-----|-------|-----|------------|-------|
| Avg. | 767 | 1,500 | 300 | 1,967 | 482 | 285,861 | 4,000 |
| Tot. | 35,285 | | | | | 10,291,000 | 4,000 |

Date: 10/11/88

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: MISSOURI RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remarks |
|----------|-------------------|----------------------|------------------|------------------------|------|---------------------------|---------|---------|
| | | To Storage | Barge from Truck | From Barge to Storage | Rail | Open | Covered | |

MINOR FACILITIES

| | | | | | | | | |
|------|-------|----|--|-----|-------|---------|--|--|
| 11 | 500 | | | 200 | | 100,000 | | |
| 41 | 400 | | | 350 | | 125,000 | | |
| 14 | 325 | 50 | | 50 | | | | |
| 40 | 300 | | | | | 3,000 | | |
| 35 | 195 | | | | 2,200 | 20,000 | | |
| Avg. | 344 | 50 | | 200 | 2,200 | 62,000 | | |
| Tot. | 1,720 | | | | | 248,000 | | |

ALL FACILITIES

| | | | | | | | | |
|------|-------|----|--|-----|-------|---------|--|--|
| Avg. | 344 | 50 | | 200 | 2,200 | 62,000 | | |
| Tot. | 1,720 | | | | | 248,000 | | |

Date: 10/17/88

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: MONONGAHELA RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|----------|-------------------|----------------------|------------------|------------------------|---------------------|---------------------------|---------|--------|
| | | To Storage | from Barge Truck | From Storage | to Barge Truck Rail | Open | Covered | |

MAJOR FACILITIES

| | | | | | | | | |
|------|--------|-------|--|-------|-------|-----------|--|--|
| 126 | 4,300 | | | 2,000 | | 1,000,000 | | |
| 171 | 3,910 | 2,500 | | 2,000 | | 22,000 | | |
| 139 | 3,550 | 1,200 | | | | | | |
| 142 | 3,055 | 800 | | | | | | |
| 124 | 2,619 | 900 | | | | | | |
| 79 | 2,500 | | | 1,200 | | | | |
| 80 | 2,400 | | | 960 | | | | |
| 127 | 2,354 | 1,000 | | 2,000 | | 2,000 | | |
| 128 | 2,145 | 1,000 | | | | 8,000 | | |
| 135 | 1,925 | | | 900 | | 700,000 | | |
| 203 | 1,800 | | | 850 | | 9,900 | | |
| 71 | 1,540 | | | | 2,000 | | | |
| 91 | 1,420 | | | 500 | | 300,000 | | |
| 95 | 1,400 | 450 | | | | 2,000 | | |
| 123 | 1,320 | 1,000 | | | | | | |
| 121 | 1,320 | 400 | | | | 15,000 | | |
| 77 | 1,290 | 1,200 | | | | 1,000,000 | | |
| 130 | 1,285 | 600 | | | | 3,000 | | |
| 191 | 1,000 | 800 | | | | 100,000 | | |
| 159 | 525 | | | | | | | |
| Avg. | 2,083 | 988 | | 1,301 | 2,000 | 263,492 | | |
| Tot. | 41,658 | | | | | 3,161,900 | | |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: MONONGAHELA RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remarks |
|----------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|---------|---------|
| | | To Storage | Barge from Truck | From Barge to Storage | Barge to Truck | Open | Covered | |

MINOR FACILITIES

| | | | | | | | | |
|------|--------|--|-----|-----|--|--|---------|-------|
| 206 | 1,350 | | 200 | | | | | |
| 140 | 1,113 | | 300 | | | | 3,000 | |
| 202 | 1,050 | | | | | | | |
| 129 | 1,050 | | | 500 | | | | |
| 167 | 1,050 | | | | | | 120,000 | |
| 157 | 1,050 | | | | | | | |
| 170 | 1,050 | | 350 | | | | 10,000 | |
| 169 | 1,050 | | | 300 | | | | |
| 136 | 1,000 | | | | | | | |
| 146 | 1,000 | | | | | | 8 | |
| 168 | 983 | | | | | | | |
| 186 | 910 | | 500 | | | | 5 | |
| 125 | 901 | | 500 | | | | | |
| 109 | 875 | | 350 | | | | 4,500 | |
| 134 | 875 | | | | | | 10,000 | |
| 166 | 790 | | 450 | | | | 30,000 | |
| 165 | 780 | | 650 | | | | 10,000 | |
| 102 | 728 | | | | | | 18 | |
| 131 | 725 | | 200 | | | | 9,000 | |
| 131 | 725 | | 200 | | | | 9,000 | |
| 147 | 710 | | | | | | | |
| 137 | 700 | | | 500 | | | 3,000 | |
| 132 | 700 | | | 560 | | | 2,000 | |
| 138 | 700 | | 500 | | | | 30,000 | |
| 64 | 675 | | | | | | | |
| 88 | 580 | | 500 | | | | 500,000 | |
| 100 | 570 | | | | | | | 12 ac |
| 148 | 520 | | | | | | | 7 ac |
| 122 | 300 | | 400 | | | | 68,000 | |
| Avg. | 845 | | 392 | 465 | | | 47,561 | |
| Tot. | 24,510 | | | | | | 808,530 | |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: MONONGAHELA RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|----------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|---------|--------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Open | Covered | |

SPORADIC FACILITIES

| | | | | | | | | |
|------|-------|--|-----|--|--|--------|--|-------|
| 85 | 525 | | | | | | | 20 ac |
| 101 | 390 | | | | | | | 7 ac |
| 182 | 376 | | | | | | | 4 ac |
| 87 | 375 | | | | | | | 10 ac |
| 196 | 250 | | | | | 25,000 | | |
| 160 | 200 | | | | | | | |
| 118 | 175 | | | | | | | |
| 119 | 175 | | 100 | | | | | |
| 155 | 175 | | | | | | | 2 ac |
| 174 | 90 | | | | | | | |
| Avg. | 273 | | 100 | | | 25,000 | | |
| Tot. | 2,731 | | | | | 25,000 | | |

ALL FACILITIES

| | | | | | | | | |
|------|--------|-----|-----|-------|-------|-----------|--|--|
| Avg. | 1,168 | 678 | 392 | 1,301 | 2,000 | 133,181 | | |
| Tot. | 68,899 | | | | | 3,995,430 | | |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: TENNESSEE RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|-------------------------|-------------------|----------------------|------------------|------------------------|------------|---------------------------|---------|--------|
| | | To Storage | Barge from Truck | From Barge to Storage | Truck Rail | Open | Covered | |
| MAJOR FACILITIES | | | | | | | | |
| 64 | 4,130 | | | | 1,400 | 800,000 | | |
| 50 | 2,940 | | | | 600 | 1,500,000 | | |
| 180 | 1,850 | 600 | 600 | 600 | | 1,000,000 | | |
| 132 | 1,650 | | | | 600 | 1,000,000 | | |
| 65 | 1,250 | | | | 5,000 | 300,000 | | |
| 38 | 1,159 | | | 10,000 | | | | 100car |
| 138 | 880 | | 600 | | | 100,000 | | |
| 70 | 700 | | | 1,500 | | | | 100car |
| 41 | 450 | | | | 375 | | | do. 40 |
| Avg. | 1,668 | 600 | 600 | 4,033 | 1,595 | 783,333 | | |
| Tot. | 15,009 | | | | | 4,700,000 | | |
| MINOR FACILITIES | | | | | | | | |
| 170 | 1,430 | | | | 200 | 300,000 | | Inactv |
| 39 | 1,345 | | | | | | | UC |
| 40 | 1,200 | | | 6,000 | | 80,000 | | 230car |
| 91 | 1,160 | | | | 400 | 50,000 | | |
| 186 | 1,063 | | | | 300 | 20,000 | | |
| 136 | 560 | | | | | | | 1.4 Ac |
| 87 | 530 | | | | | | | 1.5 Ac |
| 69 | 500 | | | | | 9,000 | | coke |
| 142 | 490 | | | | | 15,000 | | coke |
| 86 | 462 | | | | | 10,000 | | Inactv |
| 143 | 450 | | | | | 5,000 | | |
| 28 | 280 | | | | 125 | | | col&ck |
| 46 | 200 | | | | | | | contnr |
| 13 | 175 | | | | 300 | | 3,000 | coke |
| Avg. | 703 | | | 6,000 | 300 | 125 | 61,125 | 3,000 |
| Tot. | 9,845 | | | | | | 489,000 | 3,000 |

SUMMARY OF COAL-HANDLING PARGE FACILITIES

WATERWAY: TENNESSEE RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remarks |
|-----------------------------------|-------------------|----------------------|------------------|------------------------|---------------------|---------------------------|---------|---------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck Rail | Open | Covered | |
| <u>SPORADIC FACILITIES</u> | | | | | | | | |
| 36 | 700 | | | | | | | tk-brg |
| 52 | 700 | | | | | | | 8 Acre |
| 10 | 700 | | 500 | | | | 14,200 | coke |
| 185 | 650 | | | | | 20,000 | | |
| 129 | 585 | | | | | | | tr-brg |
| 130 | 585 | | | | | | | tr-brg |
| 35 | 195 | | | | | | | |
| 56 | 135 | | | | 200 | | | 4 Acre |
| Avg. | 531 | | 500 | | 200 | 20,000 | 14,200 | |
| Tot. | 4,250 | | | | | 20,000 | 14,200 | |

ALL FACILITIES

| | | | | | | | | |
|------|--------|-----|-----|-------|-----|-----|-----------|--------|
| Avg. | 939 | 550 | 600 | 4,525 | 938 | 125 | 347,267 | 8,600 |
| Tot. | 29,104 | | | | | | 5,209,000 | 17,200 |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH to CAIRO)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|-------------------------|-------------------|-----------------------------|-------|-----------------------------|-------|---------------------------|---------|--------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Truck | Rail | Open | Covered | |
| MAJOR FACILITIES | | | | | | | | |
| 129 | 5,800 | | | 2,000 | | 700,000 | | |
| 183 | 5,800 | | | 1,500 | | 2,500,000 | | |
| 7 | 5,280 | | 2,600 | | | 300,100 | | |
| 193 | 4,070 | | | 4,000 | | 1,000,000 | | |
| 109 | 3,650 | | | 4,000 | | 1,500,000 | | |
| 189 | 3,600 | | | 3,600 | | 900,000 | | |
| 242 | 3,570 | | | 8,000 | | 2,700,000 | | |
| 243 | 3,400 | | | 2,000 | | 1,000,000 | | |
| 8 | 3,380 | | | 5,000 | | 1,700,000 | | |
| 100 | 3,300 | | | 5,000 | | 700,000 | | |
| 156 | 3,285 | | | 5,500 | | 1,500,000 | | |
| 14 | 3,000 | | 3,000 | | | | | |
| 103 | 2,800 | | | 3,600 | | 1,000,000 | | |
| 9 | 2,800 | | | 2,000 | | 1,365,000 | | |
| 121 | 2,745 | | | 1,500 | | 986,000 | | |
| 43 | 2,500 | 3,500 | | | | 700,000 | | |
| 148 | 2,280 | | 900 | | | 7,500 | | |
| 90 | 2,200 | 3,500 | | | | 700,000 | | |
| 1 | 2,000 | | 1,000 | | | 25,015 | | |
| 10 | 2,000 | | 2,450 | | | | | 180 |
| 159 | 1,970 | | | 750 | | 500,000 | | |
| 173 | 1,900 | | | 700 | | 1,200,000 | | |
| 235 | 1,810 | | | 1,000 | | 1,600,000 | | |
| 143 | 1,800 | | | 1,500 | | 1,400,000 | | |
| 174 | 1,800 | | | 700 | | 1,200,000 | | |
| 250 | 1,750 | 1,000 | | | | 15,000 | | |
| 22 | 1,658 | | | 850 | | 500,000 | | |
| 207 | 1,560 | | | 900 | | 550,000 | | |
| 12 | 1,560 | | | 4,250 | | 2,200,000 | | |
| 160 | 1,500 | | | 450 | | 300,000 | | |
| 252 | 1,325 | | 1,700 | | | | | |
| 110 | 1,220 | 1,100 | | | | 1,000,000 | | |
| 3 | 1,200 | | 900 | | | | | |
| 71 | 1,120 | | | 1,300 | | 1,800,000 | | |
| 10 | 780 | | 900 | | | 1,255 | | |
| 51 | 700 | | | | | 1,000,000 | | |
| 37 | 525 | | 1,500 | | | | | 40 ac |
| 155 | 440 | | | 1,200 | | 600,000 | | |
| Avg. | 2,423 | 2,700 | 1,000 | 1,661 | 2,554 | 1,004,542 | 180 | |
| Tot. | 92,078 | | | | | 33,149,870 | 180 | |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH to CAIRO)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|----------|-------------------|----------------------|--------------------|------------------------|------------------|---------------------------|---------|--------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | |

MINOR FACILITIES

| | | | | | | | | |
|-----|-------|-------|-----|-------|-----|-----------|-------|-------|
| 188 | 1,960 | | | 190 | | 30,000 | | |
| 226 | 1,900 | | | | | 12 | | |
| 77 | 1,680 | 400 | | | | 80,000 | | |
| 20 | 1,591 | | | 900 | | | 4,000 | |
| 212 | 1,570 | 900 | | | | 100,000 | | |
| 211 | 1,555 | 900 | | | | 100,000 | | |
| 210 | 1,515 | | | | | | | |
| 236 | 1,500 | | | 300 | | 65,000 | | |
| 112 | 1,400 | | | 170 | | 7,400 | | |
| 28 | 1,384 | | | 500 | | 250,000 | | |
| 45 | 1,315 | 1,800 | | | | 84,000 | | |
| 53 | 1,300 | 4,500 | | | | 400,000 | | |
| 194 | 1,250 | 600 | | | | 50,000 | | |
| 144 | 1,200 | 1,200 | | | | 10,000 | | |
| 34 | 1,200 | | | 1,600 | | 200,000 | | |
| 52 | 1,200 | | | | | | | |
| 138 | 1,160 | | | | | 100,000 | | |
| 16 | 1,140 | | | | 500 | | | |
| 190 | 1,100 | | | | | 150,000 | | |
| 111 | 1,100 | | | 850 | | 25,000 | | |
| 11 | 1,050 | | | 200 | | | | 3 ac |
| 264 | 1,010 | | | | 300 | | | |
| 167 | 1,000 | 150 | | | | 75,000 | | |
| 165 | 1,000 | | | 350 | | | | |
| 41 | 1,000 | | | 600 | | 15,000 | | |
| 240 | 950 | 750 | | | | 20,000 | | |
| 203 | 950 | 3,500 | | | | 16,000 | | |
| 44 | 950 | 700 | | | | 200,000 | | |
| 59 | 950 | 500 | | | | 4,800 | | |
| 209 | 900 | 200 | | | | | | |
| 234 | 900 | | | | | | | 15 ac |
| 157 | 900 | 1,500 | | | | 12,000 | | |
| 246 | 895 | 500 | | | | 20,000 | | |
| 235 | 890 | | | | | 200,000 | | |
| 244 | 880 | 600 | | | | 10,000 | | |
| 76 | 875 | 500 | | 350 | | 100,000 | | |
| 184 | 875 | 1,000 | | | | 90,000 | | |
| 120 | 800 | 400 | | 500 | | 3,600,000 | | |
| 85 | 720 | 400 | | | | 75,000 | | |
| 30 | 700 | 275 | | 175 | | | | 8 ac |
| 199 | 700 | | | | | | | 3 ac |
| 75 | 700 | 500 | | | | 70,000 | | |
| 185 | 700 | 1,000 | | | | 100,000 | | |
| 139 | 695 | | 250 | | | 125,000 | | |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH to CAIRO)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|----------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|------------|--------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Open | Covered | |
| 27 | 690 | | 200 | | | | | |
| 186 | 650 | | | 300 | | | | 3 ac |
| 108 | 615 | | 250 | | | | | |
| 84 | 600 | | 100 | | | 2,000 | | |
| 55 | 600 | 1,400 | | | | 200,000 | | |
| 80 | 600 | 750 | | | | 400,000 | | |
| 233 | 585 | 450 | | | | 3,000 | | |
| 184 | 580 | | | | | | | |
| 252 | 565 | | 750 | | | 20,000 | | |
| 111 | 530 | | | 1,000 | | 1,000,000 | | |
| 10 | 525 | | | 300 | | 50,000 | | |
| 38 | 525 | 850 | | | | 300,000 | | |
| 201 | 440 | 350 | | | | 10,000 | | |
| 205 | 430 | 150 | | | | 50,000 | | |
| 101 | 400 | 800 | | | | 6,000 | | |
| 164 | 395 | | | | | | | 7 ac |
| 149 | 390 | 500 | | | | | | 25 ac |
| 54 | 390 | 1,200 | | | | 100,000 | | |
| 50 | 360 | 300 | | | | 30,000 | | |
| 245 | 350 | 300 | | | | 4,000 | | |
| 108 | 315 | 930 | | | | 85,000 | | |
| 269 | 300 | | | 100 | | | | |
| 96 | 300 | | | | | | | |
| 92 | 300 | 530 | | | | 100,000 | | |
| 13 | 275 | 400 | | | | 7 | | |
| 53 | 240 | | | 450 | | 250,000 | | |
| 202 | 220 | 500 | | | | 15,000 | | |
| 173 | 210 | | | | | | | |
| 105 | 200 | | | | 110 | 10,000 | | |
| 107 | 200 | | | | 110 | 2,000 | | |
| 148 | 200 | | | 500 | | | | 25 ac |
| 158 | 200 | | | | | | | |
| 127 | 195 | | | | | 1,000,000 | | |
| 196 | 195 | | 500 | | | | | |
| 110 | 195 | 1,000 | | | | 100,000 | | |
| 182 | 172 | 1,500 | | | | 60,000 | | |
| 92 | 150 | 500 | | | | 1,000,000 | | |
| 183 | 120 | | | 200 | | | | |
| 229 | 115 | | | | | | | 8 ac |
| 225 | 100 | | | 400 | | | | |
| Avg. | 755 | 858 | 342 | 492 | 100 | 255 | 192,780 | 4,000 |
| Tot. | 63,432 | | | | | | 11,181,219 | 4,000 |

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH to CAIRO)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Remrks |
|----------|-------------------|----------------------|------------------|------------------------|---------------------|---------------------------|---------|--------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck Rail | Open | Covered | |

SPORADIC FACILITIES

| | | | | | | | | |
|------|-------|--|--|--|--|--|--------|--|
| 93 | 300 | | | | | | 100 | |
| 170 | 230 | | | | | | | |
| 158 | 200 | | | | | | | |
| 24 | 195 | | | | | | | |
| 169 | 120 | | | | | | 10,000 | |
| Avg. | 209 | | | | | | 5,050 | |
| Tot. | 1,045 | | | | | | 10,100 | |

| | | | | | | | | |
|------|-----|--|--|--|--|--|--------|--|
| 160 | 275 | | | | | | 25,000 | |
| Avg. | 275 | | | | | | 25,000 | |
| Tot. | 275 | | | | | | 25,000 | |

ALL FACILITIES

| | | | | | | | | | |
|------|--------|-----|-----|-------|-------|-----|-----|------------|-------|
| Avg. | 1,225 | 984 | 436 | 1,661 | 1,617 | 100 | 255 | 471,981 | 2,090 |
| Tot. | 156830 | | | | | | | 44,366,189 | 4,180 |

Date: 10/12/88

SUMMARY OF COAL-HANDLING BARGE FACILITIES

WATERWAY: TENNESSEE-TOMBIGBEE WATERWAY

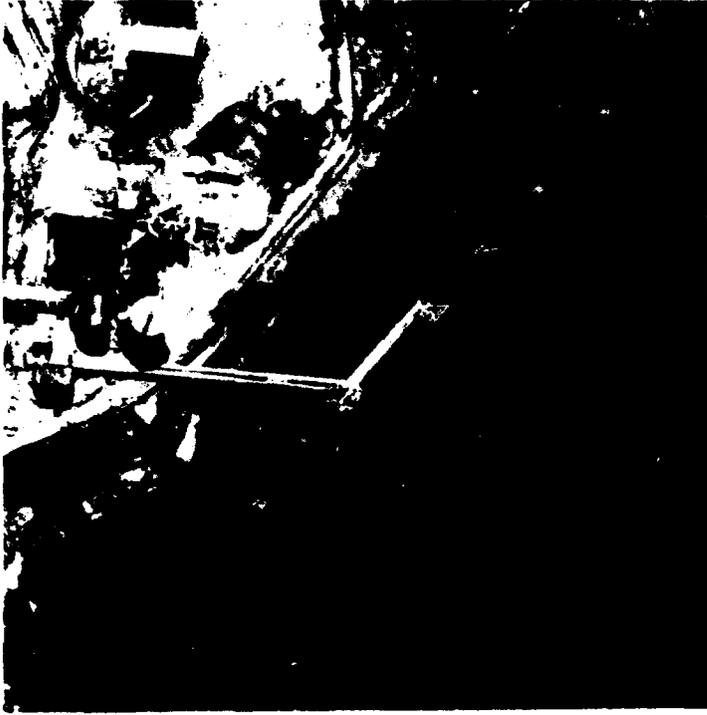
| Ref. Berth No. | Length (ft) | Loading rate (Bu/Hr) To Barge from Storage Truck | Rail | Unloading rate (Bu/Hr) From Barge to Storage Truck | Rail | Total Storage Capy (tons) Open | Covered | Remrks |
|----------------|-------------|--|------|--|------|-----------------------------------|---------|--------|
|----------------|-------------|--|------|--|------|-----------------------------------|---------|--------|

MINOR FACILITIES

| | | | | | | | | |
|------|-------|--|--|--|-----|--|--|--|
| 3 | 1,000 | | | | 100 | | | |
| Avg. | 1,000 | | | | 100 | | | |
| Tot. | 1,000 | | | | | | | |

ALL FACILITIES

| | | | | | | | | |
|------|-------|--|--|--|-----|--|--|--|
| Avg. | 1,000 | | | | 100 | | | |
| Tot. | 1,000 | | | | | | | |



PETROLEUM HANDLING TERMINALS

Where data is available, asphalt and crude oil storage facilities are shown separately, listings being arranged in descending order of tannage. Major Facilities are perceived as refineries, power plants or large industries receiving a majority of their fuel oil by barge, or an active terminal with 1,000,000 + barrel dedicated petroleum storage capacity. Medium Terminals are identified as engaged in local fuel distribution, a minor industry, a minor crude oil collection facility, or one in which total petroleum handling represents a very minor portion of waterfront activity. Minor Facilities could be inactive but viable, have minimum of activity with small tannage, be used only sporadically, or handle crude oil on minuscule basis.

Date: 9/23/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: ALABAMA RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | | |
|-------------------------|----------------------|-------------------------|--|-----------|---------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
| <u>MINOR FACILITIES</u> | | | | | |
| 101 | 160 | R | 110,000 | | |
| 100 | 780 | R | 40,000 | | |
| 95 | 200 | S | | 12,000 | |
| 94 | 300 | S | | 8,000 | |
| 93 | 300 | S | | 6,000 | |
| 91 | 200 | S | | 5,300 | |
| 92 | 300 | S | | 5,000 | |
| <hr/> | | | | | |
| Average: | 320 | | 75,000 | 7,260 | |
| Total: | 2,240 | | 150,000 | 36,300 | |
| ----- | | | | | |
| <u>ALL FACILITIES</u> | | | | | |
| Average: | 320 | | 75,000 | 7,260 | |
| Total: | 2,240 | | 150,000 | 36,300 | |

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: ALLEGHENY RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | | |
|--------------------------|----------------------------|-------------------------------|--|-----------|---------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
| <u>MEDIUM FACILITIES</u> | | | | | |
| 234 | 455 | R | 238,100 | | |
| 228 | 350 | R/S | 214,000 | | |
| 214 | 200 | R | 166,700 | | |
| 208 | 340 | R | 131,000 | | |
| 210 | 195 | R/S | 107,000 | | |
| 236 | 401 | R | | | 154,000 |
| Average: | 324 | | 171,360 | | 154,000 |
| Total: | 1,941 | | 856,800 | | 154,000 |
| <u>ALL FACILITIES</u> | | | | | |
| Average: | 324 | | 171,360 | | 154,000 |
| Total: | 1,941 | | 856,800 | | 154,000 |

Date: 9/23/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: APALACHICOLA, CHATTAHOOCHEE, FLINT RIVERS

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | | |
|-------------------------|----------------------|-------------------------|--|-----------|---------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
| <u>MINOR FACILITIES</u> | | | | | |
| 21 | 100 | X | 95,000 | | |
| 17 | 30 | R | 70,000 | | |
| 15 | 200 | R | 22,600 | | |
| 23 | 586 | R | 20,000 | | |
| 9 | 150 | R | | | 80,000 |
| <hr/> | | | | | |
| Average: | 213 | | 51,900 | | 80,000 |
| Total: | 1,066 | | 207,600 | | 80,000 |

Date: 10/11/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR-ARKANSAS
RIVER NAVIGATION SYSTEM)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
|----------|----------------------|-------------------------|--|--------------------|-----------|---------|
|----------|----------------------|-------------------------|--|--------------------|-----------|---------|

MINOR FACILITIES

| | | | | | |
|----|-----|-----|---------|--|---------|
| 36 | 400 | R | 490,000 | | |
| 99 | 275 | R | 263,750 | | |
| 97 | 600 | R | 225,000 | | 135,000 |
| 75 | 700 | R/S | 205,000 | | 225,000 |
| 34 | 150 | R | 198,000 | | |
| 88 | 195 | R/S | 120,000 | | |
| 76 | 100 | R/S | 110,000 | | 144,000 |
| 77 | 150 | R/S | 100,000 | | |
| 19 | 400 | R | 100,000 | | 77,000 |
| 21 | 300 | R | 75,000 | | |
| 56 | 110 | X | 50,000 | | |

ALL FACILITIES

| | | | | | |
|----------|-------|--|-----------|--|---------|
| Average: | 307 | | 176,068 | | 145,250 |
| Total: | 3,380 | | 1,936,750 | | 581,000 |

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER SYSTEM)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
|----------|----------------------|-------------------------|--|-----------|---------|
|----------|----------------------|-------------------------|--|-----------|---------|

MEDIUM FACILITIES

| | | | | | |
|--------------|-----|-----|---------|---------|--|
| 51 | 372 | R/S | 222,500 | 210,000 | |
| 30 | 200 | R | 159,700 | | |
| 86 | 350 | R/S | 55,000 | 260,000 | |
| 58 | 200 | S | | 110,000 | |
| Average: 281 | | | 149,067 | 193,333 | |
| Total: 1,122 | | | 447,200 | 580,000 | |

MINOR FACILITIES

| | | | | | |
|--------------|-----|-----|---------|---------|---------|
| 75 | 200 | X | 150,000 | | |
| 34 | 240 | R | 95,200 | | |
| 89 | 200 | R | 60,000 | | |
| 43 | 200 | R | 40,500 | | |
| 79 | 240 | R | 27,400 | | |
| 29 | 200 | R | 17,900 | | |
| 40 | 200 | S | | 80,000 | |
| 32 | 212 | X | | 80,000 | |
| 85 | 200 | R/S | | | 70,000 |
| 68 | 300 | R | | | 50,000 |
| Average: 219 | | | 65,167 | 80,000 | 60,000 |
| Total: 2,192 | | | 391,000 | 160,000 | 120,000 |

ALL FACILITIES

| | | | | | |
|--------------|--|--|---------|---------|---------|
| Average: 237 | | | 93,133 | 148,000 | 60,000 |
| Total: 3,314 | | | 838,200 | 740,000 | 120,000 |

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: CUMBERLAND RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
|---------------------------------|----------------------|-------------------------|--|-----------|---------|
| <u>MEDIUM FACILITIES</u> | | | | | |
| 20 | 450 | R | 425,000 | | 90,000 |
| 31 | 375 | R | 357,000 | | |
| 25 | 190 | R | 347,000 | | |
| 37 | 175 | R | 192,000 | | |
| 22 | 150 | R | 140,000 | | |
| 40 | 280 | R | 20,000 | | 160,000 |
| 48 | 275 | R | | | 140,000 |
| <hr/> | | | | | |
| Average: | 271 | | 246,833 | | 130,000 |
| <hr/> | | | | | |
| Total: | 1,895 | | 1,481,000 | | 390,000 |
| <u>MINOR FACILITIES</u> | | | | | |
| 41 | 200 | X | 210,000 | | |
| 29 | 330 | R | 59,500 | | |
| 19 | 175 | R | 23,000 | | |
| 30 | 800 | S | | 25,000 | |
| <hr/> | | | | | |
| Average: | 376 | | 97,500 | 25,000 | |
| <hr/> | | | | | |
| Total: | 1,505 | | 292,500 | 25,000 | |
| <u>ALL FACILITIES</u> | | | | | |
| Average: | 309 | | 197,056 | 25,000 | 130,000 |
| Total: | 3,400 | | 1,773,500 | 25,000 | 390,000 |

Date: 9/23/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: GULF INTRACOASTAL WATERWAY (EAST END TO MILE 5W)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BLS) |
|----------|----------------------|-------------------------|---|
| | | | PETROLEUM PRODUCTS |
| | | | CRUDE OIL |
| | | | ASPHALT |

MAJOR FACILITIES

| | | | |
|--------------|-----|---|---------|
| 50 | 590 | R | 930,000 |
| Average: 590 | | | 930,000 |
| Total: 590 | | | 930,000 |

MEDIUM FACILITIES

| | | | |
|--------------|-----|---|---------|
| 55 | 424 | R | 150,000 |
| Average: 424 | | | 150,000 |
| Total: 424 | | | 150,000 |

MINOR FACILITIES

| | | | |
|--------------|-----|---|--------|
| 49 | 104 | R | 11,900 |
| 310 | 180 | R | 6,000 |
| Average: 142 | | | 8,950 |
| Total: 284 | | | 17,900 |

ALL FACILITIES

| | | | |
|--------------|--|--|-----------|
| Average: 325 | | | 274,475 |
| Total: 1,298 | | | 1,097,900 |

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: KANAWHA RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
|--------------------------|----------------------|-------------------------|--|-----------|---------|
| <u>MEDIUM FACILITIES</u> | | | | | |
| 38 | 500 | R | 184,000 | | |
| 21 | 195 | R | 119,000 | | |
| 80 | 390 | R | 117,300 | | |
| 57 | 400 | R | 115,600 | | |
| Average: | | | 371 | 133,975 | |
| Total: | | | 1,485 | 535,900 | |
| ----- | | | | | |
| <u>MINOR FACILITIES</u> | | | | | |
| 60 | 400 | R | 79,000 | | |
| 29 | 195 | R | 69,900 | | |
| 47 | 392 | R | 19,500 | | |
| Average: | | | 329 | 56,133 | |
| Total: | | | 987 | 168,400 | |
| ----- | | | | | |
| <u>ALL FACILITIES</u> | | | | | |
| Average: | | | 353 | 100,614 | |
| Total: | | | 2,472 | 704,300 | |

Date: 9/21/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY, INCLUDING BARGE FACILITIES AT THE PORT
OF CHICAGO

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT | REMARKS |
|-------------------------|----------------------|-------------------------|--|-----------|---------|---------|
| <u>MAJOR FACILITIES</u> | | | | | | |
| 115 | 2,050 | R/S | 8,000,000 | | | |
| 62 | 1,250 | R | 4,290,000 | | | |
| 80 | 850 | R/S | 2,402,000 | | | INC |
| 71 | 1,270 | R/S | 1,800,000 | | | |
| 200 | 376 | R/S | 928,700 | | | |
| Average: | 1,159 | | 3,484,140 | | | |
| Total: | 5,796 | | 17,420,700 | | | |

| <u>MEDIUM FACILITIES</u> | | | | | | |
|--------------------------|--------|-----|------------|---------|--|-----|
| 149 | 750 | S | 1,215,000 | | | |
| 83 | 920 | R/S | 880,000 | | | |
| 92 | 650 | R/S | 875,000 | | | INC |
| 201 | 350 | R | 750,000 | | | |
| 164 | 1,220 | R/S | 610,200 | | | INC |
| 74 | 555 | R/S | 576,000 | | | |
| 69 | 567 | R/S | 552,000 | | | |
| 100 | 2,740 | R/S | 541,000 | | | INC |
| 59 | 920 | R | 500,000 | | | |
| 73 | 200 | R | 474,000 | | | |
| 62 | 810 | R/S | 430,000 | | | INC |
| 121 | 2,661 | R/S | 400,000 | | | INC |
| 30 | 400 | R | 380,600 | | | |
| 16 | 195 | R | 260,000 | | | |
| 32 | 100 | R | 257,400 | | | |
| 56 | 292 | R | 241,000 | | | |
| 57 | 275 | R | 230,000 | | | |
| 53 | 195 | R | 226,100 | | | |
| 55 | 150 | R | 212,000 | | | |
| 113 | 430 | R/S | 210,000 | | | |
| 9 | 540 | R | 190,500 | | | |
| 34 | 400 | R | 119,000 | | | |
| 128 | 200 | R/S | 100,000 | | | |
| 146 | 1,861 | R | 95,200 | | | |
| 35 | 400 | R | 92,500 | | | |
| 106 | 500 | R | 85,000 | | | INC |
| 143 | 1,000 | R | | 350,000 | | |
| 77 | 350 | R | | 225,000 | | |
| 132 | 400 | R | | 114,000 | | |
| Average: | 691 | | 403,942 | 229,667 | | |
| Total: | 20,031 | | 10,502,500 | 689,000 | | |

Date: 9/21/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY, INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | | | REMARKS |
|----------|----------------------|-------------------------|--|-----------|---------|---------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT | |

MINOR FACILITIES

| | | | | | | |
|----------|-------|-----|---------|-----------|-------|---|
| 70 | 2,221 | R | 673,300 | | | X |
| 49 | 1,853 | R/S | 522,750 | | | X |
| 72 | 330 | R | 512,300 | | | X |
| 85 | 290 | R | 470,000 | | | X |
| 66 | 700 | R | 400,000 | | | X |
| 63 | 597 | R | 241,000 | | | |
| 197 | 310 | R | 165,000 | | | |
| 129 | 315 | R | 85,000 | | | |
| 64 | 85 | R | 76,700 | | | |
| 102 | 400 | R | 71,500 | | | X |
| 83 | 540 | R | 47,600 | | | X |
| 75 | 760 | R/S | 700 | | | |
| 4 | 150 | S | | 2,500 | | |
| Average: | | | 658 | 272,154 | 2,500 | |
| Total: | | | 8,551 | 3,265,850 | 2,500 | |

ALL FACILITIES

| | | | | | |
|----------|--------|--|------------|-------|---------|
| Average: | 731 | | 725,327 | 2,500 | 229,667 |
| Total: | 34,378 | | 31,189,050 | 2,500 | 689,000 |

(X) - INACTIVE WHARF OR PETROLEUM HANDLING FACILITIES

(INC) - TANKAGE INCLUDES OTHER BULK LIQUIDS/BREAKOUT OF DEDICATED PETROLEUM TANKAGE IS NOT AVAILABLE OR IS TOO VARIABLE TO DEFINE ACCURATELY

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | | |
|-------------------------|----------------------|-------------------------|--|-----------|---------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
| <u>MAJOR FACILITIES</u> | | | | | |
| 68 | 530 | R | 1,850,000 | | |
| 23 | 550 | R | 1,500,000 | | |
| 115 | 390 | R/S | 1,040,000 | | |
| 96 | 300 | R/S | 1,000,000 | | |
| 128 | 600 | R | 1,000,000 | | |
| 121 | 980 | S | 985,000 | | |
| Average: | 558 | | 1,229,167 | | |
| Total: | 3,350 | | 7,375,000 | | |

Date: 10/11/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
|----------|----------------------|-------------------------|--|-----------|---------|
|----------|----------------------|-------------------------|--|-----------|---------|

MINOR FACILITIES

| | | | | | |
|----------|--------|-----|-----------|-----------|---------|
| 10 | 290 | R/S | 925,000 | | |
| 52 | 1,000 | S | 420,000 | | |
| 12 | 390 | R/S | 417,000 | | |
| 39 | 775 | R | 411,300 | | 71,800 |
| 74 | 275 | R | 397,000 | | |
| 30 | 125 | R | 378,000 | | |
| 114 | 250 | R/S | 332,100 | | |
| 14 | 300 | R/S | 275,000 | | |
| 9 | 195 | R/S | 266,000 | | |
| 80 | 300 | R | 237,000 | | |
| 26 | 260 | R | 179,000 | | |
| 22 | 200 | I | 175,000 | | |
| 107 | 195 | R | 165,000 | | |
| 41 | 200 | R/S | 163,500 | | |
| 81 | 200 | R | 135,000 | | |
| 38 | 300 | R | 125,000 | | |
| 40 | 320 | R/S | 122,000 | | |
| 88 | 240 | R | 121,000 | | 73,000 |
| 53 | 450 | R | 119,500 | | |
| 28 | 110 | R | 116,000 | | |
| 31 | 100 | R | 116,000 | | |
| 24 | 273 | R | 111,700 | | |
| 98 | 250 | R | 110,000 | | |
| 82 | 175 | R | 109,350 | | |
| 97 | 425 | R | 95,200 | | |
| 9 | 300 | R/S | 75,000 | 810,600 | |
| 50 | 175 | R | 70,000 | | |
| 4 | 195 | R/S | 70,000 | | |
| 67 | 195 | I | 50,000 | | |
| 6 | 2,330 | R | 47,000 | | |
| 33 | 150 | R/S | 40,000 | | 73,000 |
| 92 | 140 | R | 40,000 | | |
| 67 | 215 | R | 21,400 | | |
| 11 | 360 | R | | 625,000 | |
| 24 | 400 | R | | 328,000 | |
| 23 | 200 | R/S | | 210,000 | |
| 25 | 300 | R/S | | 200,000 | |
| 18 | 590 | | | 150,000 | |
| 27 | 250 | R | | | 65,700 |
| 18 | 175 | | | | 50,000 |
| 88 | 250 | I | | | |
| Average: | 337 | | 195,002 | 387,267 | 66,700 |
| Total: | 13,823 | | 6,435,050 | 2,323,600 | 333,500 |

Date: 10/11/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE to CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
|----------|----------------------|-------------------------|---|-----------|---------|
|----------|----------------------|-------------------------|---|-----------|---------|

ALL FACILITIES

| | | | | | |
|----------|--------|--|------------|-----------|---------|
| Average: | 365 | | 354,104 | 387,267 | 66,700 |
| Total: | 17,173 | | 13,810,050 | 2,323,600 | 333,500 |

Date: 8/09/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO to MISSOURI RIVER)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | | |
|---|----------------------|-------------------------|--|-----------|---------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
| <u>MAJOR FACILITIES</u> | | | | | |
| 17 | 500 | R/S | 2,100,000 | | |
| <hr/> | | | | | |
| Average: | 500 | | 2,100,000 | | |
| Total: | 500 | | 2,100,000 | | |
| <hr style="border-top: 1px dashed black;"/> | | | | | |
| <u>MEDIUM FACILITIES</u> | | | | | |
| 36 | 370 | R/S | 800,000 | | |
| 122 | 360 | R/S | 595,200 | | |
| 35 | 435 | R/S | 500,000 | | |
| 114 | 465 | R/S | 481,000 | | |
| 112 | 180 | R/S | 476,200 | | |
| 171 | 40 | R/S | 444,000 | | |
| 133 | 340 | R | 265,000 | | |
| 92 | 380 | R/S | 242,500 | | 135,000 |
| 113 | 380 | R/S | 214,300 | | |
| 37 | 460 | R | | 680,000 | |
| <hr/> | | | | | |
| Average: | 341 | | 446,467 | 680,000 | 135,000 |
| Total: | 3,410 | | 4,018,200 | 680,000 | 135,000 |
| <hr style="border-top: 1px dashed black;"/> | | | | | |
| <u>MINOR FACILITIES</u> | | | | | |
| 27 | 240 | R | 200,000 | | |
| 109 | 340 | R | 160,000 | | |
| 164 | 290 | R | 114,000 | | |
| 162 | 410 | R | 101,200 | | |
| 132 | 195 | R | 96,000 | | |
| 165 | 365 | R | 78,000 | | |
| 108 | 225 | R | 48,800 | | |
| 116 | 390 | R/S | 30,000 | | |
| 94 | 200 | R | 9,500 | | |
| <hr/> | | | | | |
| Average: | 295 | | 93,056 | | |
| Total: | 2,655 | | 837,500 | | |
| <hr style="border-top: 1px dashed black;"/> | | | | | |
| <u>ALL FACILITIES</u> | | | | | |
| Average: | 328 | | 366,089 | 680,000 | 135,000 |
| Total: | 6,565 | | 6,955,700 | 680,000 | 135,000 |

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | | |
|-------------------------|----------------------|-------------------------|--|-----------|-----------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
| MAJOR FACILITIES | | | | | |
| 47 | 535 | S | 4,700,000 | | |
| 52 | 650 | R/S | 3,000,000 | | |
| 2 | 350 | R | 1,000,000 | | |
| 87 | 425 | R | 1,000,000 | | |
| 89 | 400 | X | 906,000 | | |
| 133 | 689 | S | 873,000 | | |
| 33 | 1,980 | X | 838,000 | | |
| 45 | 515 | R/S | 600,000 | | |
| 41 | 540 | R/S | 240,000 | 699,000 | |
| 57 | 440 | R/S | 208,000 | 928,000 | 215,000 |
| 46 | 535 | R/S | | 2,600,000 | 2,000,000 |
| 135 | 1,620 | R | | 1,844,300 | |
| 50 | 400 | R/S | | | 1,000,000 |
| 48 | 535 | R/S | | | |
| Average: | 687 | | 1,336,500 | 1,517,825 | 1,071,667 |
| Total: | 9,614 | | 13,365,000 | 6,071,300 | 3,215,000 |

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | | |
|----------|----------------------|-------------------------|--|-----------|---------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |

MINOR FACILITIES

| | | | | | |
|----------|-------|-----|-----------|--|-----------|
| 88 | 300 | R | 712,000 | | |
| 139 | 300 | R/S | 607,100 | | |
| 242 | 96 | R | 418,000 | | |
| 191 | 75 | R | 362,250 | | |
| 206 | 150 | R | 357,200 | | |
| 84 | 200 | R | 357,100 | | 47,600 |
| 58 | 200 | R/S | 350,000 | | |
| 193 | 400 | R | 340,000 | | |
| 194 | 350 | R | 313,000 | | |
| 153 | 400 | X | 309,500 | | |
| 163 | 750 | R | 280,000 | | 53,000 |
| 85 | 200 | X | 229,000 | | |
| 175 | 415 | R | 220,000 | | 100,000 |
| 21 | 450 | R | 214,300 | | |
| 244 | 175 | R | 166,700 | | |
| 188 | 300 | X | 166,700 | | |
| 205 | 400 | R | 160,000 | | 170,000 |
| 189 | 195 | R | 150,000 | | |
| 48 | 675 | R/S | 142,800 | | |
| 226 | 200 | R | 126,200 | | |
| 59 | 230 | R | 95,200 | | 523,800 |
| 41 | 600 | R | 95,200 | | 166,700 |
| 248 | 280 | R | 38,000 | | |
| 134 | 195 | S | | | 1,723,380 |
| 95 | 250 | R | | | 190,500 |
| 98 | 195 | R | | | 142,900 |
| 69 | 245 | R | | | 59,500 |
| 49 | 535 | S | | | |
| Average: | 313 | | 270,011 | | 317,738 |
| Total: | 8,761 | | 6,210,250 | | 3,177,380 |

ALL FACILITIES

| | | | | | |
|----------|--------|--|------------|-----------|-----------|
| Average: | 438 | | 593,189 | 1,517,825 | 491,722 |
| Total: | 18,375 | | 19,575,250 | 6,071,300 | 6,392,380 |

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: MISSOURI RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
|--------------------------------|----------------------|-------------------------|--|-----------|---------|
| <u>MAJOR FACILITIES</u> | | | | | |
| 37 | 428 | X | 1,200,000 | | |
| Average: | 428 | | 1,200,000 | | |
| Total: | 428 | | 1,200,000 | | |
| <u>MINOR FACILITIES</u> | | | | | |
| 42 | 600 | R | | | 170,000 |
| 53 | 480 | X | | | |
| 57 | 400 | R | | | 83,000 |
| 47 | 360 | R | 256,000 | | |
| 105 | 300 | R | | | 200,000 |
| 87 | 300 | X | 83,300 | | |
| 17 | 280 | X | | | |
| Average: | 389 | | 169,650 | | 151,000 |
| Total: | 2,720 | | 339,300 | | 453,000 |
| <u>ALL FACILITIES</u> | | | | | |
| Average: | 394 | | 513,100 | | 151,000 |
| Total: | 3,148 | | 1,539,300 | | 453,000 |

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: MONONGAHELA RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
|---------------------------------|----------------------|-------------------------|--|-----------|---------|
| <u>MEDIUM FACILITIES</u> | | | | | |
| 90 | 320 | R | 283,000 | | 244,100 |
| 65 | 150 | R/S | 214,000 | | |
| 67 | 312 | R/S | 203,000 | | |
| 201 | 1,000 | R | 190,500 | | |
| 72 | 450 | R | 190,000 | | |
| 92 | 450 | R | 156,200 | | |
| 111 | 465 | R | 156,000 | | |
| 73 | 525 | R/S | 119,000 | | 71,400 |
| 203 | 175 | R/S | 28,800 | | 102,400 |
| 78 | 195 | R/S | | | 380,000 |
| Average: | 404 | | 171,167 | | 199,475 |
| Total: | 4,042 | | 1,540,500 | | 797,900 |
| <u>MINOR FACILITIES</u> | | | | | |
| 162 | 240 | R | 83,000 | | |
| 107 | 490 | R/S | 54,700 | | 25,200 |
| 74 | 350 | X | 47,600 | | |
| 69 | 150 | R | 47,600 | | |
| 143 | 150 | R | 44,000 | | |
| 161 | 134 | R | 40,000 | | |
| 180 | 386 | R | 28,500 | | |
| 141 | 200 | R | 19,000 | | |
| 183 | 350 | R/S | 15,500 | | |
| 120 | 100 | X | 8,300 | | |
| 181 | 140 | R/S | | | 17,850 |
| Average: | 245 | | 38,820 | | 21,525 |
| Total: | 2,690 | | 388,200 | | 43,050 |
| <u>ALL FACILITIES</u> | | | | | |
| Average: | 321 | | 101,511 | | 140,158 |
| Total: | 6,732 | | 1,928,700 | | 840,950 |

Date: 10/11/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BLS) | | |
|-------------------------|----------------------|-------------------------|---|-----------|-----------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
| MAJOR FACILITIES | | | | | |
| 217L | 303 | R/S | 1,110,000 | | |
| 150C | 135 | S | 986,900 | | |
| 175H | 340 | R/S | 934,000 | | |
| 48P | 817 | R/S | 835,000 | | |
| 216L | 150 | R/S | 800,000 | 450,000 | |
| 131C | 175 | R | 750,000 | | |
| 133L | 400 | R/S | 750,000 | | |
| 168H | 450 | R/S | 685,000 | | |
| 2H | 1,028 | S | 673,500 | | |
| 136L | 110 | R/S | 524,000 | | |
| 134C | 100 | R | 501,000 | | |
| 113C | 220 | R | 490,000 | | |
| 33P | 280 | R/S | 450,000 | | |
| 55P | 540 | R/S | 400,000 | | |
| 102L | 195 | R/S | | 1,000,000 | |
| 153C | 400 | R/S | | 688,000 | 1,023,000 |
| 134L | 356 | R | | | 1,000,000 |
| 163H | 370 | R/S | | | 595,000 |
| 163H | 370 | R/S | | | 595,000 |
| 130H | 130 | R/S | | | 465,000 |
| Average: | 343 | | 706,386 | 712,667 | 735,600 |
| Total: | 6,869 | | 9,889,400 | 2,138,000 | 3,678,000 |

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
|----------|----------------------|-------------------------|--|-----------|---------|
|----------|----------------------|-------------------------|--|-----------|---------|

MEDIUM FACILITIES

| | | | | | |
|----------|--------|-----|-----------|---------|---------|
| 32P | 825 | R/S | 385,000 | | |
| 219L | 200 | R | 350,000 | | |
| 187H | 440 | R/S | 309,500 | | |
| 266P | 305 | R/S | 306,000 | | |
| 276P | 315 | R | 293,000 | | |
| 135C | 800 | R | 291,000 | | |
| 265P | 225 | R | 275,000 | | |
| 170H | 1,860 | R/S | 267,000 | | |
| 201L | 400 | R | 256,000 | | |
| 272P | 300 | R | 250,000 | | |
| 31P | 155 | R | 250,000 | | |
| 138C | 120 | R | 250,000 | | |
| 129L | 375 | R/S | 250,000 | | |
| 47P | 441 | R/S | 240,000 | | |
| 168L | 360 | R | 240,000 | | |
| 249P | 1,315 | R | 230,000 | | |
| 101C | 150 | R | 220,000 | | |
| 132C | 400 | R/S | 214,000 | | |
| 18C | 450 | R | 210,000 | | |
| 135L | 220 | R/S | 203,000 | | |
| 149L | 400 | R | 203,000 | | |
| 169L | 195 | R/S | 201,000 | | |
| 278P | 450 | R/S | 200,000 | | |
| 156C | 850 | R | 200,000 | | |
| 19C | 250 | R | 200,000 | | |
| 95C | 150 | R | 145,000 | | |
| 141H | 170 | R | 143,000 | | |
| 241H | 195 | R | 143,000 | | |
| 188L | 1,960 | R | 143,000 | | |
| 172C | 195 | R | 142,500 | | |
| 118L | 195 | R | 140,000 | | |
| 57L | 175 | R | 140,000 | | |
| 54C | 400 | R | 137,000 | | |
| 239L | 175 | R/S | 120,000 | | |
| 188H | 425 | R | 119,000 | | |
| 99L | 600 | R | 118,000 | | |
| 125L | 190 | R | 115,000 | | |
| 183H | 120 | R | 110,000 | | |
| 216H | 465 | R | | 175,000 | |
| 151C | 380 | R | | | 214,200 |
| 195H | 320 | R | | | 140,000 |
| Average: | 437 | | 210,763 | 175,000 | 177,100 |
| Total: | 17,916 | | 8,009,000 | 175,000 | 354,200 |

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | | |
|----------|----------------------|-------------------------|--|-----------|---------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |

MINOR FACILITIES

| | | | | | |
|------|-------|-----|---------|--|---------|
| 277P | 300 | X | 300,000 | | |
| 116C | 40 | R | 114,000 | | |
| 103L | 135 | R | 112,000 | | |
| 147L | 175 | R | 110,000 | | |
| 221H | 195 | R | 106,000 | | |
| 123C | 195 | R | 105,000 | | |
| 200L | 300 | R | 100,000 | | |
| 136H | 140 | R | 95,200 | | |
| 42C | 150 | S | 88,000 | | |
| 2L | 300 | R/S | 85,900 | | |
| 16H | 195 | R | 80,000 | | |
| 110H | 200 | R | 71,400 | | |
| 220H | 160 | R | 68,200 | | |
| 231H | 185 | R | 67,000 | | 110,000 |
| 223H | 350 | R | 67,000 | | |
| 34P | 243 | R | 65,000 | | |
| 217H | 210 | R | 65,000 | | |
| 215H | 90 | R | 65,000 | | |
| 142H | 160 | R | 60,000 | | |
| 239H | 195 | R | 58,000 | | |
| 12H | 195 | X | 52,400 | | |
| 193H | 4,000 | R | 52,400 | | |
| 109C | 150 | R | 52,400 | | |
| 156H | 200 | R | 50,400 | | |
| 164H | 800 | R | 47,600 | | |
| 18H | 380 | R | 47,600 | | |
| 124H | 195 | R | 47,600 | | |
| 133H | 165 | R | 47,600 | | |
| 117L | 150 | R/S | 46,900 | | |
| 9H | 195 | R | 45,250 | | |
| 81C | 200 | R | 45,000 | | |
| 192H | 1,245 | S | 40,500 | | |
| 101L | 150 | R | 40,000 | | |
| 126H | 330 | R | 35,000 | | |
| 129C | 200 | R | 32,300 | | |
| 8H | 195 | R | 30,950 | | |
| 178L | 200 | R | 30,000 | | |
| 122H | 200 | R | 28,600 | | |
| 88L | 195 | R | 28,600 | | |
| 154H | 125 | R | 28,500 | | |
| 9P | 800 | R | 26,000 | | |
| 232H | 100 | R | 24,000 | | |
| 113H | 390 | R | 23,800 | | |

Date: 10/11/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
|----------|----------------------|-------------------------|--|-----------|---------|
|----------|----------------------|-------------------------|--|-----------|---------|

MINOR FACILITIES (continued)

| | | | | | |
|----------|--------|-----|-----------|---------|---------|
| 147C | 195 | R | 23,800 | | |
| 97L | 170 | R | 23,800 | | |
| 161C | 175 | R | 20,200 | | |
| 224H | 160 | R | 20,000 | | |
| 128H | 125 | R | 19,000 | | |
| 152H | 120 | R | 17,600 | | |
| 131L | 200 | R/S | 11,000 | | |
| 166H | 140 | S | 10,700 | | |
| 57P | 200 | S | 10,000 | | |
| 50P | 129 | R/S | 6,000 | | |
| 118H | 240 | R | 3,530 | | |
| 230H | 165 | R | | 98,700 | |
| 219H | 150 | R | | 45,000 | |
| 222H | 150 | R | | 23,800 | |
| 142L | 250 | R | | | 93,000 |
| 124L | 180 | R | | | 80,000 |
| 145L | 200 | R | | | 66,000 |
| 51C | 175 | S | | | 47,600 |
| 16C | 400 | X | | | |
| Average: | 292 | | 54,101 | 55,833 | 79,320 |
| Total: | 18,402 | | 2,975,530 | 167,500 | 396,600 |

ALL FACILITIES

| | | | | | |
|----------|--------|--|------------|-----------|-----------|
| Average: | 348 | | 195,083 | 354,357 | 369,067 |
| Total: | 43,187 | | 20,873,930 | 2,480,500 | 4,428,800 |

Date: 8/09/88

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: OUACHITA RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
|----------|----------------------|-------------------------|--|-----------|---------|
|----------|----------------------|-------------------------|--|-----------|---------|

MINOR FACILITIES

| | | | | | |
|----------|-------|---|---------|--------|--|
| 10 | 195 | X | 186,800 | | |
| 8 | 480 | R | 125,000 | | |
| 16 | 450 | X | | 24,000 | |
| 5 | 400 | X | | 20,000 | |
| <hr/> | | | | | |
| Average: | 381 | | 155,900 | 22,000 | |
| Total: | 1,525 | | 311,800 | 44,000 | |

ALL FACILITIES

| | | | | | |
|----------|-------|--|---------|--------|--|
| Average: | 381 | | 155,900 | 22,000 | |
| Total: | 1,525 | | 311,800 | 44,000 | |

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

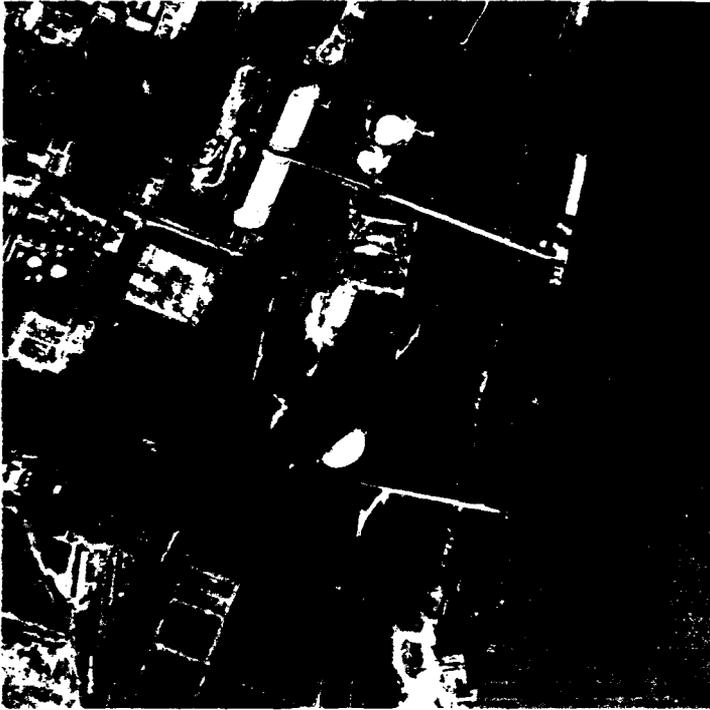
WATERWAY: TENNESSEE RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | | |
|---------------------------------|----------------------|-------------------------|--|-----------|---------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
| <u>MEDIUM FACILITIES</u> | | | | | |
| 145 | 120 | R | 480,000 | | 98,000 |
| 32 | 727 | R/S | 215,000 | | |
| 64 | 4,130 | R | 214,300 | | |
| 7 | 175 | R | 179,000 | | |
| 85 | 650 | R | 164,300 | | |
| 21 | 200 | R/S | 158,000 | | |
| 8 | 100 | R | 158,000 | | |
| 66 | 90 | R | 115,000 | | |
| 191 | 295 | R | 53,500 | | 95,200 |
| 144 | 425 | R/S | | | 150,000 |
| 152 | 195 | R | | | 92,000 |
| <hr/> | | | | | |
| Average: | 646 | | 193,011 | | 108,800 |
| <hr/> | | | | | |
| Total: | 7,107 | | 1,737,100 | | 435,200 |
| ----- | | | | | |
| <u>MINOR FACILITIES</u> | | | | | |
| 190 | 240 | X | 141,800 | | |
| 24 | 195 | X | 35,000 | | |
| 187 | 350 | X | 104,000 | | |
| 131 | 390 | R | 95,200 | | |
| 11 | 200 | R | 63,400 | | |
| 49 | 460 | R | 54,800 | | |
| 153 | 195 | R | 23,800 | | |
| 67 | 150 | X | 13,000 | | |
| 55 | 600 | R | | | 75,000 |
| <hr/> | | | | | |
| Average: | 309 | | 78,875 | | 75,000 |
| <hr/> | | | | | |
| Total: | 2,780 | | 631,000 | | 75,000 |
| ----- | | | | | |
| <u>ALL FACILITIES</u> | | | | | |
| Average: | 494 | | 139,300 | | 102,040 |
| Total: | 9,887 | | 2,368,100 | | 510,200 |

SUMMARY OF PETROLEUM-HANDLING BARGE FACILITIES

WATERWAY: TENNESSEE-TOMBIGBEE WATERWAY

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE CONNECTED TO BARGE FACILITY (BBLs) | | |
|--------------------------|----------------------------|-------------------------------|--|-----------|---------|
| | | | PETROLEUM PRODUCTS | CRUDE OIL | ASPHALT |
| <u>MEDIUM FACILITIES</u> | | | | | |
| 1 | 360 | R | | | 195,000 |
| Average: | 360 | | | | 195,000 |
| Total: | 360 | | | | 195,000 |
| <u>ALL FACILITIES</u> | | | | | |
| Average: | 360 | | | | 195,000 |
| Total: | 360 | | | | 195,000 |



DRY BULK MATERIAL HANDLING TERMINALS

This commodity category is subdivided into 9 sub-categories: Cement; Feed, Meal, Flour, and Other Related Items; Fertilizer/Fertilizer Component; Sand, Gravel, Stone, and Related Items; Scap Metal; Miscellaneous Ores (alumina, pig iron, magnetite, etc.); Sugar; Salt; and Miscellaneous (unspecified, wood chips, fish meal, waste products, etc.). Each entry is arranged according to descending berthing length.

Transfer rates between barge and truck, rail, and/or open and covered storage areas are given where available.

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: ALABAMA RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|--|-------------------|----------------------|-----------------------|------------------------|---------------------|---------------------------|---------|-------|
| | | To Storage | Barge from Truck Rail | From Storage | Barge to Truck Rail | Open | Covered | Acres |
| <u>FERTILIZER/FERTILIZER COMPONENTS</u> | | | | | | | | |
| 113 | 100 | | | 120 | | 20,000 | | |
| Avg. | 100 | | | 120 | | 20,000 | | |
| Tot. | 100 | | | | | 20,000 | | |
| <u>SAND, STONE AND GRAVEL</u> | | | | | | | | |
| 98 | 600 | 1,000 | | | | 40,000 | | |
| 110 | 200 | 400 | | | | 100,000 | | |
| 108 | 200 | | | | | | | 1.0 |
| 106 | 135 | 560 | | | | 500,000 | | |
| 105 | 100 | 400 | | | | 550,000 | | |
| Avg. | 247 | 590 | | | | 297,500 | | 1 |
| Tot. | 1,235 | | | | | 1,190,000 | | 1.0 |
| <u>MISCELLANEOUS BULK CARGO</u> | | | | | | | | |
| 114 | 650 | | | | | | | |
| 109 | 325 | | | | | | | |
| 102 | 110 | 60 | | | | | | |
| 115 | 90 | | | 450 | | 200,000 | | |
| Avg. | 294 | 60 | | 450 | | 200,000 | | |
| Tot. | 1,175 | | | | | 200,000 | | |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Avg. | 251 | 484 | | 285 | | 278,000 | 20,000 | 1.0 |
| Tot. | 2,510 | | | | | 1,390,000 | 20,000 | 1.0 |

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: ALLEGHENY RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|---------------------------------|-------------------|------------------------|------------------|--------------------------|--------------------|---------------------------|---------|-------|
| | | To Storage | Barge from Truck | From Barge to Storage | From Barge to Rail | Open | Covered | Acres |
| <u>SAND, STONE AND GRAVEL</u> | | | | | | | | |
| 217 | 870 | | | | | 18,000 | | |
| 223 | 800 | | | | | 120,000 | | |
| 216 | 700 | | | | | 300,000 | | |
| 243 | 490 | | | | | | | |
| 215 | 350 | | | | | 80,000 | | |
| 209 | 350 | | | | | 35,000 | | |
| 222 | 350 | | | | | | | |
| 235 | 200 | | | 100 | | 8,000 | | |
| 239 | 200 | | | | | 4,000 | | |
| 226 | 175 | 250 | | | | | | |
| 221 | 175 | | | | | 200,000 | | |
| Avg. | 424 | 250 | | 100 | | 95,625 | | |
| Tot. | 4,660 | | | | | 765,000 | | |
| <u>MISCELLANEOUS BULK CARGO</u> | | | | | | | | |
| 230 | 705 | | | | | | | 45.0 |
| 219 | 500 | | | | | 15,000 | | |
| 227 | 400 | | | | | 100,000 | | |
| 218 | 350 | | | | | | | 12.5 |
| 231 | 195 | | | | | | | 5.0 |
| 238 | 175 | | | | | | 1,475 | |
| Avg. | 388 | | | | | 57,500 | 1,475 | 21 |
| Tot. | 2,325 | | | | | 115,000 | 1,475 | 62.5 |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Avg. | 411 | 250 | | 100 | | 88,000 | 1,475 | 20.8 |
| Tot. | 6,985 | | | | | 880,000 | 1,475 | 62.5 |

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)
WATERWAY: APALACHICOLA, CHATTAHOOCHEE, AND FLINT RIVERS

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|---|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|---------|-------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Open | Covered | Acres |
| FERTILIZER/FERTILIZER COMPONENTS | | | | | | | | |
| 10 | 9,000 | | | 110 | | 13,000 | 67,000 | |
| 18 | 516 | | | 100 | | | 56,000 | |
| Avg. | 4,758 | | | 105 | | 13,000 | 61,500 | |
| Tot. | 9,516 | | | | | 13,000 | 123,000 | |
| MISCELLANEOUS ORES | | | | | | | | |
| 19 | 354 | | | | | | | 112.0 |
| Avg. | 354 | | | | | | | 112 |
| Tot. | 354 | | | | | | | 112.0 |
| SAND, STONE AND GRAVEL | | | | | | | | |
| 18 | 516 | | | 500 | | 20,000 | | |
| 7 | 175 | | | 100 | | 500,000 | | |
| 22 | 175 | 200 | | | | 100,000 | | |
| Avg. | 289 | 200 | | 300 | | 206,667 | | |
| Tot. | 866 | | | | | 620,000 | | |
| MISCELLANEOUS BULK CARGO | | | | | | | | |
| 6 | 300 | | | 200 | | 5,000 | 38,000 | 8.0 |
| Avg. | 300 | | | 200 | | 5,000 | 38,000 | 8 |
| Tot. | 300 | | | | | 5,000 | 38,000 | 8.0 |
| ALL FACILITIES | | | | | | | | |
| Avg. | 1,577 | 200 | | 267 | 105 | 127,600 | 53,667 | 60.0 |
| Tot. | 11,036 | | | | | 638,000 | 161,000 | 120.0 |

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR - ARKANSAS RIVER
NAVIGATION SYSTEM)

| Ref. Berth No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | | |
|---|-------------------------|---------------------------|-----------------------|-----------------------------|---------------------|------------------------------|------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Rail | Open | Covered | Acres |
| <u>CEMENT</u> | | | | | | | | | |
| 34 | 150 | | | | 80 | | | 3,400 | |
| Avg. | 150 | | | | 80 | | | 3,400 | |
| Tot. | 150 | | | | | | | 3,400 | |
| <u>FEEED, MEAL, FLOUR, ETC.</u> | | | | | | | | | |
| 59 | 380 | | | | 110 | | | 4,000 | |
| Avg. | 380 | | | | 110 | | | 4,000 | |
| Tot. | 380 | | | | | | | 4,000 | |
| <u>FERTILIZER/FERTILIZER COMPONENTS</u> | | | | | | | | | |
| 33 | 930 | | | | | | | | 3.0 |
| 37 | 600 | | | | 900 | | | | |
| 14 | 540 | | | | 200 | | | 20,000 | |
| 98 | 375 | | 150 | | 150 | | | 70,000 | |
| 85 | 260 | | | | 200 | | | 30,000 | |
| 38 | 200 | | | | | 250 | | | |
| 39 | 200 | | | | 800 | | | 26,000 | |
| Avg. | 429 | | 150 | | 450 | 250 | | 36,500 | 3 |
| Tot. | 3,005 | | | | | | | 146,000 | 3.0 |
| <u>SAND, STONE AND GRAVEL</u> | | | | | | | | | |
| 54 | 1,600 | 1,000 | | | | | | 30,000 | |
| 62 | 800 | | | | 500 | | | 90,000 | |
| 49 | 525 | | | | | | | 50,000 | |
| 58 | 350 | | | | 350 | | | 80,000 | |
| 42 | 300 | | | | 1,000 | | | 50,000 | |
| 35 | 195 | | | | | | | | |
| 55 | 195 | 500 | | | | | | | |
| 46 | 195 | | | | 350 | | | 40,000 | |
| 57 | 175 | | | | | | | | |
| 72 | 100 | | | | 100 | | | 86,300 | |
| Avg. | 444 | 750 | | | 460 | | | 60,900 | |
| Tot. | 4,435 | | | | | | | 426,300 | |

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR - ARKANSAS RIVER
NAVIGATION SYSTEM)

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|----------|-------------------|------------------------|--------------------|--------------------------|------------------|---------------------------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | Acres |

MISCELLANEOUS BULK CARGO

| | | | | | | | | |
|------|-------|-----|-----|--|-----|--|--------|------|
| 33 | 830 | | | | | | | 18.0 |
| 75 | 700 | | | | | | | 12.0 |
| 52 | 600 | | | | | | | |
| 91 | 400 | | 400 | | | | | |
| 43 | 350 | | | | | | | |
| 80 | 340 | | | | | | | 10.0 |
| 92 | 295 | | | | 130 | | 12,000 | |
| 63 | 205 | | | | | | | |
| 74 | 200 | | | | | | | |
| 86 | 200 | 250 | | | | | 20,000 | |
| 87 | 200 | | | | | | | |
| 93 | 180 | | | | | | | 8.0 |
| 53 | 120 | | | | | | | |
| Avg. | 355 | 250 | 400 | | 130 | | 16,000 | 12 |
| Tot. | 4,620 | | | | | | 32,000 | 48.0 |

ALL FACILITIES

| | | | | | | | | | |
|------|--------|-----|-----|--|-----|-----|--------|---------|------|
| Avg. | 393 | 583 | 275 | | 395 | 190 | 16,000 | 44,592 | 10.2 |
| Tot. | 12,590 | | | | | | 32,000 | 579,700 | 51.0 |

Date: 10/03/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: **BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER SYSTEM)**

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capacity (tons) | | Acres |
|----------|-------------------|----------------------|-------|------------------------|-------|-------------------------------|---------|-------|
| | | To Storage | Truck | From Storage | Truck | Open | Covered | |

CEMENT

| | | | | | | | | |
|------|-----|--|-------|--|--|--|--|-------|
| 49 | 390 | | 1,200 | | | | | 5,500 |
| Avg. | 390 | | 1,200 | | | | | 5,500 |
| Tot. | 390 | | | | | | | 5,500 |

FERTILIZER/FERTILIZER COMPONENTS

| | | | | | | | | |
|------|-----|--|--|--|-----|--|--|--------|
| 21 | 210 | | | | 250 | | | 20,000 |
| Avg. | 210 | | | | 250 | | | 20,000 |
| Tot. | 210 | | | | | | | 20,000 |

MISCELLANEOUS ORES

| | | | | | | | | |
|------|-----|--|--|-----|--|--|--|---------|
| 73 | 800 | | | 600 | | | | 200,000 |
| Avg. | 800 | | | 600 | | | | 200,000 |
| Tot. | 800 | | | | | | | 200,000 |

SALT

| | | | | | | | | |
|------|-----|--|--|--|-----|--|--|--|
| 45 | 600 | | | | 150 | | | |
| Avg. | 600 | | | | 150 | | | |
| Tot. | 600 | | | | | | | |

SAND, STONE AND GRAVEL

| | | | | | | | | |
|------|-------|--|-------|--|-----|--|--|---------|
| 33 | 1,510 | | | | | | | |
| 41 | 500 | | | | 250 | | | 100,000 |
| 76 | 400 | | 1,150 | | | | | |
| 24 | 200 | | | | | | | 14.0 |
| Avg. | 653 | | 1,150 | | 250 | | | 100,000 |
| Tot. | 2,610 | | | | | | | 100,000 |
| | | | | | | | | 14.0 |

Date: 10/03/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: **BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER SYSTEM)**

| Ref. Berth No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|----------------|-------------------|----------------------|--------------------|------------------------|------------------|---------------------------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | Acres |

MISCELLANEOUS BULK CARGO

| | | | | | | | | |
|------|-------|-----|--|--|--|--------|--|--|
| 53 | 600 | | | | | 24,000 | | |
| 71 | 600 | | | | | | | |
| 23 | 498 | | | | | | | |
| 52 | 200 | 500 | | | | 40,000 | | |
| Avg. | 475 | 500 | | | | 32,000 | | |
| Tot. | 1,898 | | | | | 64,000 | | |

ALL FACILITIES

| | | | | | | | | |
|------|-------|-----|-------|-----|-----|---------|--------|------|
| Avg. | 542 | 850 | 1,150 | 600 | 217 | 91,000 | 12,750 | 14.0 |
| Tot. | 6,508 | | | | | 364,000 | 25,500 | 14.0 |

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: COLUMBIA RIVER (ABOVE THE DALLES - MILE 191.5)

| Ref. Berth No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | |
|-------------------|-------------------------|--------------------------------|------|--------------------------------|------|------------------------------|---------------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Truck | Rail | Open | Covered Acres |

WOOD CHIPS

| | | | | | | | |
|------|-------|-----|--|--|--|--------|--|
| 112 | 800 | 90 | | | | 2,400 | |
| 145 | 400 | 240 | | | | 3,000 | |
| 144 | 375 | 140 | | | | 10,000 | |
| 108 | 300 | 250 | | | | 29,000 | |
| 150 | 200 | 180 | | | | 5,400 | |
| Avg. | 415 | 180 | | | | 9,960 | |
| Tot. | 2,075 | | | | | 40,800 | |

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: CUMBERLAND RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|-------------------------------|-------------------|------------------------|------------|--------------------------|----------|---------------------------|---------|---------|
| | | To Storage | from Barge | From Storage | to Barge | Open | Covered | Acres |
| CEMENT | | | | | | | | |
| 21 | 600 | | | 350 | | | | 54,000 |
| 18 | 200 | | | 100 | | | | 5,800 |
| 26 | 160 | | | 200 | | | | 4,200 |
| Avg. | 320 | | | 217 | | | | 21,333 |
| Tot. | 960 | | | | | | | 64,000 |
| MISCELLANEOUS ORES | | | | | | | | |
| 16 | 550 | | | 300 | | | | 15,000 |
| Avg. | 550 | | | 300 | | | | 15,000 |
| Tot. | 550 | | | | | | | 15,000 |
| SAND, STONE AND GRAVEL | | | | | | | | |
| 36 | 360 | | | 750 | | | | 100,000 |
| 44 | 200 | | | 325 | | | | 26,000 |
| Avg. | 280 | | | 538 | | | | 63,000 |
| Tot. | 560 | | | | | | | 126,000 |
| SCRAP METAL | | | | | | | | |
| 34 | 260 | 350 | | | | | | 30.0 |
| Avg. | 260 | 350 | | | | | | 30 |
| Tot. | 260 | | | | | | | 30.0 |
| SCRAP METAL | | | | | | | | |
| 33 | 300 | 75 | | | | | | 1,400 |
| Avg. | 300 | 75 | | | | | | 1,400 |
| Tot. | 300 | | | | | | | 1,400 |

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: CUMBERLAND RIVER

| Ref. Berth No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|---------------------------------|-------------------|------------------------|--------------------|--------------------------|------------------|---------------------------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | Acres |
| <u>MISCELLANEOUS BULK CARGO</u> | | | | | | | | |
| 47 | 1,570 | 1,500 | 750 | | | | | 5.0 |
| 42 | 800 | | | | | | | 10.0 |
| 49 | 690 | 1,500 | 1,500 | | | 1,000,000 | | |
| 38 | 195 | | | | 200 | 20,000 | | |
| 23 | 100 | | | | | | | 7.0 |
| Avg. | 671 | 1,500 | 1,125 | | 200 | 510,000 | | 7 |
| Tot. | 3,355 | | | | | 1,020,000 | | 22.0 |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Avg. | 460 | 856 | 1,125 | | 318 | 229,480 | 19,750 | 13.0 |
| Tot. | 5,985 | | | | | 1,147,400 | 79,000 | 52.0 |

Date: 9/02/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: GREEN RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|----------|-------------------|------------------------|------------|--------------------------|----------|---------------------------|---------|-------|
| | | To Storage | from Barge | From Storage | to Barge | Open | Covered | Acres |

MISCELLANEOUS ORES

| | | | | | | | | |
|------|-------|--|--|--|--|--|--|--------|
| 66 | 1,440 | | | | | | | 51,000 |
| Avg. | 1,440 | | | | | | | 51,000 |
| Tot. | 1,440 | | | | | | | 51,000 |

SAND, STONE, GRAVEL, LIME

| | | | | | | | | |
|------|-------|-------|--|--|--|---------|--------|--|
| 67 | 2,625 | 400 | | | | 150,000 | | |
| 86 | 1,365 | 1,000 | | | | | 24,000 | |
| Avg. | 1,995 | 700 | | | | 150,000 | 24,000 | |
| Tot. | 3,990 | | | | | 150,000 | 24,000 | |

ALL FACILITIES

| | | | | | | | | |
|------|-------|-----|--|--|--|---------|--------|--|
| Avg. | 1,810 | 700 | | | | 150,000 | 37,500 | |
| Tot. | 5,430 | | | | | 150,000 | 75,000 | |

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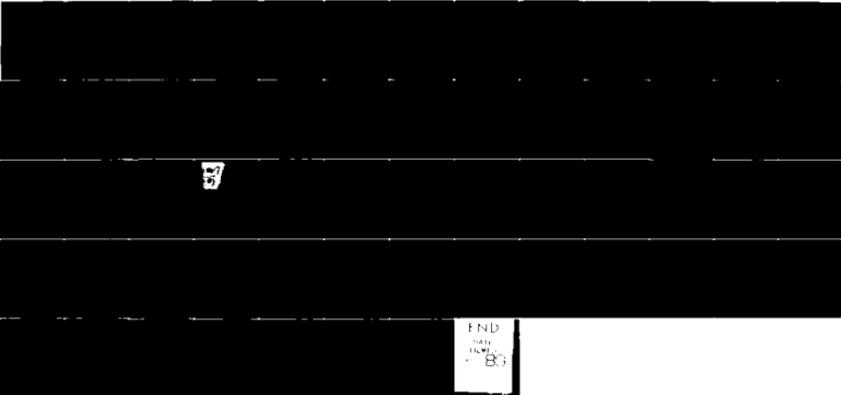
SUMMARY OF COMMODITY HANDLING TERMINALS ON UNITED STATES INLAND WATERWAYS (U) NAVIGATION DATA CENTER FORT BELVOIR VA OCT 88 NDC-88-P-1

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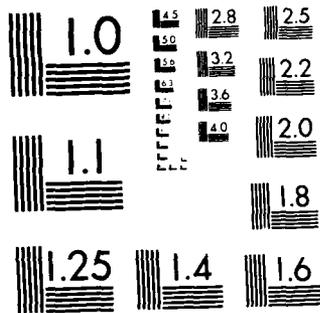
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)
WATERWAY: GULF INTRACOASTAL WATERWAY (EAST END TO MILE 5W)

| Ref. Berth No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|---------------------------------|-------------------------|--------------------------------|------|--------------------------------|------|------------------------------|---------|-------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Truck | Rail | Open | Covered | Acres |
| <u>CEMENT</u> | | | | | | | | |
| 92 | 600 | | | | | 58,500 | | |
| Avg. | 600 | | | | | 58,500 | | |
| Tot. | 600 | | | | | 58,500 | | |
| <u>SAND, STONE AND GRAVEL</u> | | | | | | | | |
| 80 | 1,300 | | | 100 | | 75,000 | | |
| Avg. | 1,300 | | | 100 | | 75,000 | | |
| Tot. | 1,300 | | | | | 75,000 | | |
| <u>SCRAP METAL</u> | | | | | | | | |
| 28 | 451 | | | | | | | 4.0 |
| Avg. | 451 | | | | | | | 4 |
| Tot. | 451 | | | | | | | 4.0 |
| <u>MISCELLANEOUS BULK CARGO</u> | | | | | | | | |
| 51 | 1,808 | 3,000 | | 1,200 | | 30,000 | | 5.4 |
| Avg. | 1,808 | 3,000 | | 1,200 | | 30,000 | | 5 |
| Tot. | 1,808 | | | | | 30,000 | | 5.4 |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Avg. | 1,040 | 3,000 | | 650 | | 75,000 | 44,250 | 4.7 |
| Tot. | 4,159 | | | | | 75,000 | 88,500 | 9.4 |

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: **KANAWHA RIVER**

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|-------------------------------|-------------------|------------------------|--------------------|--------------------------|------------------|---------------------------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | Acres |
| CEMENT | | | | | | | | |
| 37 | 276 | | | 120 | | | 11,700 | |
| Avg. | 276 | | | 120 | | | 11,700 | |
| Tot. | 276 | | | | | | 11,700 | |
| SAND, STONE AND GRAVEL | | | | | | | | |
| 39 | 800 | | | 250 | | 20,000 | | |
| 25 | 750 | | | 200 | | 60,000 | | |
| 51 | 560 | | | 200 | | 10,000 | | |
| 24 | 525 | | | 400 | | 20,000 | | |
| 99 | 525 | | | 250 | | 20,000 | | |
| 28 | 420 | | | 200 | | 21,500 | | 40.0 |
| 54 | 400 | | | 300 | | 13,000 | | |
| 85 | 350 | | | 300 | | 30,000 | | |
| 91 | 300 | | | 300 | | 60,000 | | |
| 27 | 200 | | | 175 | | 20,000 | | |
| 20 | 200 | | | 150 | | 10,000 | | |
| 42 | 195 | | | 300 | | 43,000 | | |
| 84 | 195 | | | | | | | 30.0 |
| 73 | 175 | | | | 375 | 18,000 | | |
| Avg. | 400 | | | 252 | 375 | 26,577 | | 35 |
| Tot. | 5,595 | | | | | 345,500 | | 70.0 |
| SCRAP METAL | | | | | | | | |
| 97 | 195 | | | | | | | 23.0 |
| 61 | 195 | | | | | | | 15.0 |
| Avg. | 195 | | | | | | | 19 |
| Tot. | 390 | | | | | | | 38.0 |
| ALL FACILITIES | | | | | | | | |
| Avg. | 368 | | | 242 | 375 | 26,577 | 11,700 | 27.0 |
| Tot. | 6,261 | | | | | 345,500 | 11,700 | 108.0 |

Date: 10/07/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: KASKASKIA RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|---------------------------------|-------------------|------------------------|------------------|--------------------------|------------|---------------------------|---------|-------|
| | | To Storage | Barge from Truck | From Barge to Storage | Truck Rail | Open | Covered | Acres |
| <u>MISCELLANEOUS BULK CARGO</u> | | | | | | | | |
| 0 | 195 | | 300 | | | | | 5.0 |
| Avg. | 195 | | 300 | | | | | 5 |
| Tot. | 195 | | | | | | | 5.0 |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Avg. | 195 | | 300 | | | | | 5.0 |
| Tot. | 195 | | | | | | | 5.0 |

Date: 8/30/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: KENTUCKY RIVER

| Ref. Berth No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|-------------------------------|-------------------|------------------------|--------------------|--------------------------|------------------|---------------------------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | Acres |
| <u>SAND, STONE AND GRAVEL</u> | | | | | | | | |
| 4 | 135 | | | | 300 | 5,000 | | |
| 2 | 700 | | | | | | | 20.0 |
| 5 | 200 | | | | | | | 4.0 |
| Avg. | 345 | | | | 300 | 5,000 | | 12 |
| Tot. | 1,035 | | | | | 5,000 | | 24.0 |

| <u>ALL FACILITIES</u> | | | | | | | | |
|-----------------------|-------|--|--|--|-----|-------|--|------|
| Avg. | 345 | | | | 300 | 5,000 | | 12.0 |
| Tot. | 1,035 | | | | | 5,000 | | 24.0 |

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: ILLINOIS RIVER (INCLUDING BARGE FACILITIES AT THE PORT OF
CHICAGO)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | | Total Storage Capy (tons) | | |
|----------|-------------------|----------------------|------------------|------------------------|----------------|------|---------------------------|---------|-------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Rail | Open | Covered | Acres |

CEMENT

| | | | | | | | | | |
|------|-------|--|--|--|--|--|--|--|--------|
| 88 | 800 | | | | | | | | 5,500 |
| 162 | 750 | | | | | | | | 21,400 |
| 78 | 480 | | | | | | | | 30,000 |
| 130 | 310 | | | | | | | | 4,100 |
| 71 | 222 | | | | | | | | 1,880 |
| 21 | 217 | | | | | | | | 25,500 |
| Avg. | 463 | | | | | | | | 14,730 |
| Tot. | 2,779 | | | | | | | | 88,380 |

FEED, MEAL, FLOUR, ETC.

| | | | | | | | | | |
|------|-----|--|-----|--|--|--|--|--|--------|
| 82 | 430 | | | | | | | | 11,000 |
| 24 | 360 | | 275 | | | | | | 33,500 |
| 196 | | | | | | | | | 15,500 |
| Avg. | 395 | | 275 | | | | | | 20,000 |
| Tot. | 790 | | | | | | | | 60,000 |

FERTILIZER/FERTILIZER COMPONENTS

| | | | | | | | | | |
|------|-------|-------|-------|-------|-----|-----|-----|--|---------|
| 31 | 1,200 | | | | | | | | 22,500 |
| 94 | 1,070 | | | | 70 | | | | 20,000 |
| 4 | 1,040 | 1,200 | | | 600 | 600 | 600 | | 60,000 |
| 92 | 875 | 1,000 | 1,000 | 1,000 | 800 | 800 | 800 | | 80,000 |
| 131 | 800 | | | | 150 | 150 | 150 | | 80,000 |
| 196 | 720 | | | | | | | | 30,000 |
| 82 | 430 | | | | | | | | 11,000 |
| 136 | 400 | | | | | | | | 20,000 |
| 135 | 200 | | | | | | | | 20,000 |
| 95 | 170 | | | | 100 | | | | 16,000 |
| Avg. | 691 | 1,100 | 1,000 | 1,000 | 344 | 517 | 517 | | 35,950 |
| Tot. | 6,905 | | | | | | | | 359,500 |

MISCELLANEOUS ORES

| | | | | | | | | | |
|------|-------|--|--|--|-----|--|--|--|------|
| 185 | 730 | | | | | | | | 5.0 |
| 194 | 720 | | | | | | | | 7.0 |
| 138 | 500 | | | | | | | | 6.0 |
| 148 | 214 | | | | 200 | | | | 1.5 |
| Avg. | 541 | | | | 200 | | | | 5 |
| Tot. | 2,164 | | | | | | | | 19.5 |

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: ILLINOIS RIVER (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|-------------------------------|-------------------|----------------------|--------------------|------------------------|------------------|---------------------------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | Acres |
| SALT | | | | | | | | |
| 61 | 2,400 | | | | | 100,000 | | |
| 103 | 2,300 | | | | | | | 6.0 |
| 161 | 1,500 | | | | | 125,000 | | |
| 4 | 1,040 | 1,200 | | 600 | 600 | 35,000 | | |
| 186 | 1,020 | | | 400 | | 200,000 | 19,000 | |
| 131 | 800 | | | 150 | | 12,000 | | |
| 166 | 690 | | | 250 | | 50,000 | 5,000 | |
| 16 | 532 | | | | | | 25,000 | |
| 22 | 518 | | | 200 | | 7,000 | 8,000 | |
| 126 | 500 | | | | | 25,000 | | |
| 6 | 500 | | | | | 1,000,000 | | |
| 34 | 425 | | | 200 | | 16,500 | | |
| Avg. | 1,019 | 1,200 | | 300 | 600 | 157,050 | 14,250 | 6 |
| Tot. | 12,225 | | | | | 1,570,500 | 57,000 | 6.0 |
| SAND, STONE AND GRAVEL | | | | | | | | |
| 120 | 10,600 | 700 | | | | | | 47.0 |
| 61 | 2,400 | | | | | 100,000 | | |
| 103 | 2,300 | | | | | | | 6.0 |
| 199 | 1,500 | | | | | | | 7.0 |
| 112 | 1,400 | | 500 | | | 20,000 | | |
| 14 | 1,125 | | | 240 | | 30,000 | 25,000 | |
| 94 | 1,070 | | | 70 | | | 15,000 | |
| 58 | 1,000 | | | | | | | 1.0 |
| 29 | 906 | | | 240 | | 19,000 | | |
| 41 | 872 | | | | | 100,000 | | |
| 194 | 720 | | | | | | | 1.0 |
| 119 | 660 | | | | | | | |
| 51 | 610 | | | 400 | | 80,000 | | |
| 126 | 500 | | | | | 25,000 | | |
| 28 | 465 | | | 200 | | 20,000 | | |
| 84 | 400 | 180 | | | | | | |
| 43 | 350 | | | | | 50,000 | | |
| 69 | 347 | | | | | | | 2.0 |
| 107 | 300 | 1,100 | 1,100 | | | | | |
| 40 | 300 | | | | | 10,000 | | |
| 60 | 195 | | | | | 40,000 | | |
| Avg. | 1,334 | 700 | 640 | 800 | 230 | 44,909 | 20,000 | 11 |
| Tot. | 28,020 | | | | | 494,000 | 40,000 | 64.0 |

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)WATERWAY: ILLINOIS RIVER (INCLUDING BARGE FACILITIES AT THE PORT OF
CHICAGO)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | | Total Storage Capy (tons) | | | |
|---------------------------------|-------------------|----------------------|-----------------------|------------------------|---------------------|--------|---------------------------|---------|--------|-------|
| | | To Storage | Barge from Truck Rail | From Storage | Barge to Truck Rail | Open | Covered | Acres | | |
| <u>SCRAP METAL</u> | | | | | | | | | | |
| 152 | 1,430 | | | | | | | | 10.0 | |
| 76 | 1,300 | | | | | 50,000 | | | | |
| 180 | 1,300 | | | | | | | | .5 | |
| 91 | 1,140 | | | | | | | | 2.0 | |
| 43 | 1,089 | | | | | | | | 5.0 | |
| 50 | 659 | | | | | | | | 2.5 | |
| 17 | 654 | | | | | | | | 2.0 | |
| 128 | 520 | | | | | | | | 2.0 | |
| 26 | 480 | | | | | | | | 4.0 | |
| 183 | 330 | | | | | | | | 7.0 | |
| Avg. | 890 | | | | | 50,000 | | | 4 | |
| Tot. | 8,902 | | | | | 50,000 | | | 35.0 | |
| <u>SUGAR</u> | | | | | | | | | | |
| 48 | 1,770 | | | | | | | 15,000 | | |
| Avg. | 1,770 | | | | | | | 15,000 | | |
| Tot. | 1,770 | | | | | | | 15,000 | | |
| <u>MISCELLANEOUS BULK CARGO</u> | | | | | | | | | | |
| 179 | 1,582 | | | | | | | | 8.0 | |
| 31 | 1,200 | | | | | | | 22,500 | 14.0 | |
| 118 | 1,000 | | | | | 1,500 | | | | |
| 143 | 1,000 | | | 250 | 250 | 50,000 | | | | |
| 127 | 1,000 | | | | | | | | 4.5 | |
| 78 | 1,000 | | | | | | | | 1.5 | |
| 131 | 800 | | | 150 | 150 | 150 | 88,000 | | | |
| 54 | 650 | | 1,500 | | | | | | 25.0 | |
| 160 | 600 | | | | | | | | 17.0 | |
| 104 | 580 | | 150 | | | | 50,000 | | | |
| 104 | 580 | | | | | | 50,000 | | | |
| 103 | 400 | | | | | | | | | |
| 57 | 400 | | | | | | | | 50.0 | |
| 5 | 400 | | | | | | 10,000 | | | |
| 108 | 285 | | | | | | 150,000 | | | |
| 18 | 250 | | | | | | | | | |
| 144 | 200 | | | | | | | | | |
| 42 | 195 | | | | | | | | | |
| 92 | | 1,000 | 1,000 | 1,000 | 800 | 800 | 800 | 100,000 | | |
| Avg. | 673 | 1,000 | 883 | 1,000 | 400 | 400 | 475 | 62,438 | 22,500 | 17 |
| Tot. | 12,122 | | | | | | | 499,500 | 22,500 | 120.0 |

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

Date: 10/19/88

WATERWAY: ILLINOIS RIVER (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

| Ref. Berth No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|----------------|-------------------|----------------------|--------------------|------------------------|------------------|---------------------------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | Acres |

ALL FACILITIES

| | | | | | | | | | | |
|------|--------|-----|-----|-----|-----|-----|-----|-----------|---------|-------|
| Avg. | 901 | 896 | 822 | 900 | 285 | 479 | 517 | 87,133 | 23,792 | 9.1 |
| Tot. | 75,677 | | | | | | | 2,614,000 | 642,380 | 244.5 |

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY:

LOWER MISSISSIPPI RIVER (BATON ROUGE TO CAIRO)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Acres |
|-------------------------------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|---------|-------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Open | Covered | |
| <u>CEMENT</u> | | | | | | | | |
| 11 | 355 | | | | | | 8,100 | |
| 43 | 175 | | | | | | 2,100 | |
| Avg. | 265 | | | | | | 5,100 | |
| Tot. | 530 | | | | | | 10,200 | |
| <u>FERTILIZER</u> | | | | | | | | |
| 17 | 5,280 | | | | | | | |
| 105 | 1,080 | 300 | | 300 | | | 30,000 | |
| 95 | 780 | | | 300 | | | 10,000 | |
| 126 | 700 | | | | | | 12,000 | |
| 1 | 390 | 200 | | 200 | | | 30,000 | |
| 64 | 281 | | | | | | 24,000 | |
| 86 | 135 | | | | | | 5,800 | |
| 40 | 120 | | | | | | 14,000 | |
| 61 | 100 | | | | | | 50,000 | |
| Avg. | 985 | 250 | | 267 | | | 21,975 | |
| Tot. | 8,866 | | | | | | 175,800 | |
| <u>SAND, GRAVEL AND STONE</u> | | | | | | | | |
| 59 | 1,000 | | | | | | 500,000 | |
| 89 | 450 | | | | | | | 5.4 |
| 99 | 250 | | | | | | 200,000 | |
| 60 | 110 | | | | | | 50,000 | |
| 38 | 100 | | | | | | | 5.4 |
| 72 | 100 | | | | | | 120,000 | |
| Avg. | 335 | | | | | | 217,500 | 5 |
| Tot. | 2,010 | | | | | | 870,000 | 10.8 |

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE TO CAIRO)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Acres |
|---------------------------------|-------------------|----------------------|--------------------|------------------------|------------------|---------------------------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | |
| <u>MISCELLANEOUS BULK CARGO</u> | | | | | | | | |
| 91 | 1,740 | | | 200 | | 74,000 | | |
| 109 | 600 | 170 | | | | 15,000 | | |
| 89 | 600 | | | | | | | 15.0 |
| 99 | 530 | | | | | | | |
| 110 | 500 | | | | | 40,000 | | |
| 2 | 495 | | | | | 560,000 | | |
| 70 | 380 | | | | | | | 1.6 |
| 47 | 360 | | | | | | | 15.0 |
| 116 | 314 | | | | | 75,000 | | |
| 56 | 300 | | | | | | | 15.0 |
| 66 | 300 | 400 | | 400 | | 21,000 | | |
| 64 | 281 | | | | | 50,000 | | 15.0 |
| 54 | 260 | | | 140 | | 150,000 | | |
| 29 | 250 | | | | | | | 15.0 |
| 85 | 250 | | | | | | | .5 |
| 113 | 250 | | | | | | | 6.0 |
| 27 | 195 | | | 200 | | | | 24.0 |
| 48 | 160 | | | | | | | 15.0 |
| 46 | 100 | | | | | | | |
| Avg. | 414 | 285 | | 235 | | 123,125 | | 12 |
| Tot. | 7,865 | | | | | 985,000 | | 122.1 |

ALL FACILITIES

| | | | | | | | | |
|------|--------|-----|--|-----|--|---------|--|-------|
| Avg. | 535 | 268 | | 249 | | 92,773 | | 11.1 |
| Tot. | 19,271 | | | | | 2041000 | | 132.9 |

Date: 10/17/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO TO MISSOURI RIVER)

| Ref. Borth No. | Borth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|---|-------------------------|--------------------------------|------|--------------------------------|------|------------------------------|---------|-------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Truck | Rail | Open | Covered | Acres |
| <u>CEMENT</u> | | | | | | | | |
| 166 | 1,000 | 1,000 | | | | 18,000 | | |
| 149 | 780 | 400 | | | | 37,000 | | |
| 81 | 390 | | | 60 | | 100,000 | | |
| 111 | 330 | | | 250 | | 20,500 | | |
| 91 | 180 | | | 125 | | 10,500 | | |
| 120 | 150 | | | 140 | | 10,400 | | |
| Avg. | 472 | 700 | | 144 | | 32,733 | | |
| Tot. | 2,830 | | | | | 196,400 | | |
| <u>FEED, MEAL, FLOUR, ETC.</u> | | | | | | | | |
| 124 | 165 | | | 23 | | 500 | | |
| Avg. | 165 | | | 23 | | 500 | | |
| Tot. | 165 | | | | | 500 | | |
| <u>FERTILIZER/FERTILIZER COMPONENTS</u> | | | | | | | | |
| 30 | 400 | 275 | | | | 40,000 | | |
| 135 | 395 | | | 180 | | 40,000 | | |
| Avg. | 398 | 275 | | 180 | | 40,000 | | |
| Tot. | 795 | | | | | 80,000 | | |
| <u>SALT</u> | | | | | | | | |
| 18 | 600 | | | | | 10,000 | 6,500 | |
| 96 | 195 | | | 150 | | | 10,000 | |
| 126 | | | | 400 | | | | |
| Avg. | 398 | | | 150 | 400 | 10,000 | 8,250 | |
| Tot. | 795 | | | | | 10,000 | 16,500 | |

Date: 10/17/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO TO MISSOURI RIVER)

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | | | |
|---------------------------------|-------------------|------------------------|--------------------|--------------------------|------------------|---------------------------|---------|---------|---------|------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | Acres | | |
| <u>SAND, STONE AND GRAVEL</u> | | | | | | | | | | |
| 159 | 640 | | 300 | | 300 | | 60,000 | | | |
| 146 | 550 | | 750 | | | | | | | |
| 28 | 380 | | | | 250 | | 80,000 | | | |
| 148 | 200 | | | | 200 | | 36,000 | | | |
| 126 | 195 | | | | 400 | | 23,000 | | | |
| 96 | 195 | | | | 150 | | 10,000 | | | |
| 145 | 195 | | | | | | | | | |
| 139 | 195 | | | | | | | | | |
| 153 | 195 | | | 450 | | | | | | |
| 157 | 195 | | | | | | | | | |
| 90 | 195 | | | | 400 | | 100,000 | | | |
| 138 | 130 | | | | 150 | | 15,000 | | | |
| Avg. | 272 | | 525 | | 450 | 264 | | 46,286 | | |
| Tot. | 3,265 | | | | | | | 324,000 | | |
| <u>SUGAR</u> | | | | | | | | | | |
| 110 | 310 | | | | 275 | | | 12,000 | | |
| Avg. | 310 | | | | 275 | | | 12,000 | | |
| Tot. | 310 | | | | | | | 12,000 | | |
| <u>MISCELLANEOUS BULK CARGO</u> | | | | | | | | | | |
| 5 | 1,500 | | | | | | 10,000 | | 4.0 | |
| 89 | 880 | | | | | | | 21,000 | 12.0 | |
| 88 | 875 | | | | | | | | | |
| 31 | 825 | | | | | | | | | |
| 18 | 600 | | | | 500 | 500 | | | | |
| 33 | 600 | | | 750 | | | | | | |
| 167 | 590 | | | | | | | | | |
| 152 | 480 | | 1,500 | | | | | | 15.0 | |
| 135 | 395 | | | | | | | | | |
| 38 | 200 | 300 | | | | | | | | |
| 22 | 195 | | | | | | 140,000 | | | |
| 32 | 195 | | 350 | 350 | | 350 | 350 | | | |
| Avg. | 611 | 300 | 925 | 550 | 500 | 425 | 350 | 75,000 | 21,000 | 10 |
| Tot. | 7,335 | | | | | | | 150,000 | 21,000 | 31.0 |
| <u>ALL FACILITIES</u> | | | | | | | | | | |
| Avg. | 430 | 504 | 925 | 517 | 222 | 417 | 350 | 48,400 | 25,108 | 10.3 |
| Tot. | 15,495 | | | | | | | 484,000 | 326,400 | 31.0 |

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | Acres |
|--------------------------------|-------------------|----------------------|------------|------------------------|----------|---------------------------|---------|-------|
| | | To Storage | from Barge | From Storage | to Barge | Open | Covered | |
| CEMENT | | | | | | | | |
| 208 | 919 | | | | | | 100,000 | |
| 254 | 720 | | 1,200 | | | | 64,500 | |
| 71 | 260 | | | | | | 5,100 | |
| 69 | 250 | | 1,500 | | | | 84,000 | |
| 195 | 245 | | | | 160 | | 10,500 | |
| Avg. | 479 | | 1,350 | | 160 | | 52,820 | |
| Tot. | 2,394 | | | | | | 264,100 | |
| FEED, MEAL, FLOUR, ETC. | | | | | | | | |
| 4 | 692 | | 500 | | | | | |
| 179 | 450 | | | | 150 | | | |
| Avg. | 571 | | 500 | | 150 | | | |
| Tot. | 1,142 | | | | | | | |
| FERTILIZER | | | | | | | | |
| 232 | 2,000 | | | | 500 | | 200,000 | |
| 31 | 1,200 | | | | | | 50,000 | |
| 13 | 1,000 | | | | 175 | | | |
| 247 | 880 | | | | 450 | | | |
| 23 | 600 | | | | | | 200,000 | |
| 138 | 600 | | | | | | | |
| 20 | 400 | | | | 200 | | 50,000 | |
| 178 | 285 | | | | 150 | | 41,000 | |
| 224 | 200 | | | | 150 | | 21,500 | |
| 137 | 200 | | | | 350 | | 200,000 | |
| 160 | 195 | | | | | | 50,000 | |
| 119 | 195 | | | | | | 13,000 | |
| Avg. | 646 | | | | 282 | | 91,722 | |
| Tot. | 7,755 | | | | | | 825,500 | |
| SCRAP METAL | | | | | | | | |
| 99 | 1,040 | | | | | | | 13.5 |
| 56 | 400 | | | | | | | |
| 240 | 237 | | | | | 6,000 | | 10.0 |
| 250 | 195 | | | | | 4,200 | | |
| Avg. | 468 | | | | | 5,100 | | 12 |
| Tot. | 1,872 | | | | | 10,200 | | 23.5 |

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|---------------------------------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|---------|-------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Open | Covered | Acres |
| <u>SAND, GRAVEL AND STONE</u> | | | | | | | | |
| 55 | 1,600 | | 1,000 | | | | | |
| 67 | 1,280 | | | 200 | | 40,000 | | |
| 56 | 1,200 | | 400 | | | 1,000,000 | | |
| 59 | 840 | | | 225 | | 50,000 | | |
| 200 | 800 | | | | | 30,000 | | |
| 72 | 675 | | | 150 | | 350,000 | | |
| 197 | 450 | | | | | 75,000 | | |
| 115 | 400 | | | 100 | | 200,000 | | |
| 207 | 400 | | | | | 4,500 | | |
| 187 | 325 | | | | | 75,000 | | |
| 6 | 250 | | | | | 1,500 | | |
| 219 | 240 | | 300 | | | | | 5.0 |
| 65 | 195 | | 200 | | | 60,000 | | |
| 190 | 120 | | | | | 60,000 | | |
| Avg. | 627 | | 475 | | 169 | 162,167 | | 5 |
| Tot. | 8,775 | | | | | 1,946,000 | | 5.0 |
| <u>MISCELLANEOUS BULK CARGO</u> | | | | | | | | |
| 237 | 8,000 | | | 200 | | 150,000 | | |
| 132 | 4,400 | | | | | | | 25.0 |
| 204 | 1,500 | | | | | 100,000 | | |
| 128 | 1,400 | | 750 | | | | 250,000 | |
| 32 | 1,100 | | | | | | 60,000 | |
| 167 | 900 | | | 150 | | 90,000 | | |
| 140 | 800 | | | 150 | | | | |
| 200 | 800 | | | | | 30,000 | | |
| 218 | 510 | | | 200 | | | | |
| 17 | 500 | | | 200 | | 130,000 | 30,400 | |
| 3 | 500 | | | | | | | |
| 63 | 500 | | | 450 | | | 32,500 | |
| 211 | 450 | | | 120 | | 60,000 | | |
| 34 | 340 | | | | | | | |
| 233 | 300 | | | | | | 100,000 | |
| 36 | 300 | | | | | 100,000 | | |
| 148 | 300 | | | 300 | | 100,000 | 20,000 | |
| 155 | 225 | | | | | 65,000 | | |
| 199 | 200 | | | | | | 5,000 | |
| 186 | 200 | | | | | | 6,000 | |
| 26 | 200 | | 300 | 300 | | 1,000,000 | 13,500 | |
| Avg. | 1,115 | | 525 | | 230 | 182,500 | 57,489 | 25 |
| Tot. | 23,425 | | | | | 1,825,000 | 517,400 | 25.0 |

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|----------|----------------------|--------------------------------|------|--------------------------------|------|------------------------------|---------|-------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Truck | Rail | Open | Covered | Acres |

ALL FACILITIES

| | | | | | | | | |
|------|--------|-----|--|-----|--|-----------|---------|------|
| Avg. | 782 | 683 | | 229 | | 157,550 | 69,870 | 13.4 |
| Tot. | 45,363 | | | | | 3,781,200 | 1607000 | 53.5 |

Date: 10/17/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: MISSOURI RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | | |
|---|-------------------|----------------------|--------------------|------------------------|------------------|---------------------------|------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Rail | Open | Covered | Acres |
| FERTILIZER/FERTILIZER COMPONENTS | | | | | | | | | |
| 51 | 1,200 | | | 150 | | | | 60,000 | |
| 75 | 590 | | | 150 | | | | 10,000 | |
| 93 | 400 | | | 200 | | | | 33,000 | |
| 86 | 360 | | | 85 | | | | 25,000 | |
| 19 | 300 | | | | | | | 11,000 | |
| 92 | 235 | | | 100 | | | | 49,200 | |
| 69 | 195 | | | | | | | 10,000 | |
| 32 | 180 | | | | | | | | |
| 90 | 180 | | | | | | | | |
| 63 | 36 | | | | 100 | | | | |
| Avg. | 368 | | | 137 | 100 | | | 28,314 | |
| Tot. | 3,676 | | | | | | | 198,200 | |

SAND, STONE AND GRAVEL

| | | | | | | | | | |
|------|-------|--|--|-----|--|--|--|---------|---------|
| 3 | 800 | | | 300 | | | | 30,000 | |
| 6 | 500 | | | | | | | 80,000 | |
| 1 | 475 | | | 200 | | | | 200,000 | |
| 7 | 250 | | | 200 | | | | 20,000 | |
| 13 | 200 | | | 200 | | | | 15,000 | |
| 5 | 200 | | | | | | | 80,000 | |
| 2 | 200 | | | 250 | | | | 30,000 | |
| 9 | 195 | | | 150 | | | | 15,000 | |
| 18 | 195 | | | 200 | | | | 65,000 | |
| 15 | 175 | | | 600 | | | | 80,000 | |
| 12 | 175 | | | 200 | | | | 15,000 | |
| 20 | 175 | | | | | | | 30,000 | |
| 39 | 150 | | | | | | | 100,000 | |
| 16 | 150 | | | 200 | | | | 20,000 | |
| 68 | 100 | | | | | | | 65,000 | |
| 31 | 100 | | | | | | | 20,000 | |
| 24 | 100 | | | | | | | 15,000 | |
| 30 | 80 | | | | | | | 65,000 | |
| 21 | 15 | | | 200 | | | | 31,000 | |
| Avg. | 223 | | | 245 | | | | 57,273 | 43,250 |
| Tot. | 4,235 | | | | | | | 630,000 | 346,000 |

Date: 10/17/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: MISSOURI RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|---------------------------------|-------------------|----------------------|--------------|------------------------|------------|---------------------------|---------|-------|
| | | To Barge | from Storage | From Barge | to Storage | Open | Covered | Acres |
| CEMENT | | | | | | | | |
| 34 | 400 | | 200 | | | 57,400 | | |
| 14 | 325 | | | | 50 | 800 | | |
| 94 | 300 | | | | 170 | 80,000 | | |
| Avg. | 342 | | 200 | | 110 | 46,067 | | |
| Tot. | 1,025 | | | | | 138,200 | | |
| MISCELLANEOUS BULK CARGO | | | | | | | | |
| 103 | 1,109 | | 400 | | | 107,400 | | |
| 100 | 900 | | | | 200 | 130,000 | | |
| 66 | 697 | | | | | 200 | | |
| 52 | 600 | | | | | | | |
| 38 | 480 | | | | | | | 5.0 |
| 41 | 400 | | | | 350 | 125,000 | | |
| 101 | 348 | | 300 | | | 10,000 | | |
| 14 | 325 | | | | 50 | 4,000 | | 4.0 |
| 40 | 300 | | 200 | | | 3,000 | | |
| 19 | 300 | | | | | 15,000 | | |
| 35 | 195 | | | | | 20,000 | | |
| 99 | 195 | | | | | 50,000 | | |
| 89 | 150 | | 100 | | | | | |
| Avg. | 461 | | 300 | 100 | 200 | 46,460 | | 5 |
| Tot. | 5,999 | | | | | 464,600 | | 9.0 |
| ALL FACILITIES | | | | | | | | |
| Avg. | 332 | | 275 | 100 | 200 | 57,273 | 40,964 | 4.5 |
| Tot. | 14,935 | | | | | 630,000 | 1147000 | 9.0 |

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: MONONGAHELA RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|-------------------------------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|---------|-----------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Open | Covered | Acres |
| <u>CEMENT</u> | | | | | | | | |
| 154 | 225 | | | | | | | 5,800 |
| Avg. | 225 | | | | | | | 5,800 |
| Tot. | 225 | | | | | | | 5,800 |
| <u>FERTILIZER</u> | | | | | | | | |
| 158 | 625 | 1,800 | | | | | | 4,200 |
| 159 | 525 | | | | | | | |
| 160 | 170 | | | | | | | |
| Avg. | 440 | 1,800 | | | | | | 4,200 |
| Tot. | 1,320 | | | | | | | 4,200 |
| <u>SAND, GRAVEL AND STONE</u> | | | | | | | | |
| 63 | 950 | 100 | | | | | | 700 |
| 119 | 400 | 40 | | | | | | 4,000 |
| 74 | 350 | | | | | | | 1,400 |
| 83 | 350 | | | | | | | 5,500 |
| 108 | 200 | | | | | | | 600 |
| 97 | 180 | 80 | | | | | | 152,300 |
| Avg. | 405 | 73 | | | | | | 27,417 |
| Tot. | 2,430 | | | | | | | 164,500 |
| <u>SCRAP METAL</u> | | | | | | | | |
| 184 | 1,050 | | | | | | | 1,500,000 |
| 179 | 860 | | | | | | | 3.0 |
| 204 | 450 | | | | | | | 150,000 |
| 198 | 380 | | | | | | | 150,000 |
| 98 | 370 | | | | | | | 16.0 |
| 99 | 300 | | | | | | | 3.5 |
| Avg. | 568 | | | | | | | 600,000 |
| Tot. | 3,410 | | | | | | | 1,800,000 |
| | | | | | | | | 28.5 |

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: MONONGAHELA RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|---------------------------------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|---------|-------|
| | | To Storage | from Barge Truck | From Storage | to Barge Truck | Open | Covered | Acres |
| <u>MISCELLANEOUS BULK CARGO</u> | | | | | | | | |
| 206 | 1,350 | 200 | | | | 9,000 | | 10.0 |
| 157 | 1,050 | | | | | | 1,600 | |
| 61 | 600 | 250 | | | | | | 300.0 |
| 106 | 600 | | | | | | | 20.0 |
| 85 | 525 | | | | | | | 7.0 |
| 101 | 390 | | | | | 5,000 | | 10.0 |
| 87 | 375 | | | | | | | 6.0 |
| 116 | 350 | | | | | | | 4.0 |
| 182 | 350 | | | | | | | 12.0 |
| 183 | 350 | 150 | | | | | | |
| 196 | 250 | | | | | 25,000 | | |
| 199 | 200 | | | | | | 30,000 | |
| 133 | 175 | | | | | 20,000 | | |
| 155 | 175 | | | | | | | 1.7 |
| Avg. | 481 | 200 | | | | 14,750 | 15,800 | 41 |
| Tot. | 6,740 | | | | | 59,000 | 31,600 | 370.7 |
| <u>ALL FACILITIES</u> | | | | | | | | |
| Avg. | 471 | 374 | | | | 155,654 | 10,400 | 30.7 |
| Tot. | 14,125 | | | | | 2,023,500 | 41,600 | 399.2 |

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | | |
|---|-------------------|------------------------|------------------|--------------------------|----------------|---------------------------|---------|---------|------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Open | Covered | Acres | |
| <u>CEMENT</u> | | | | | | | | | |
| 236 | 1,500 | | | 200 | | | 65,000 | | |
| 130 | 325 | | | 300 | | | 12,000 | | |
| 253 | 260 | 300 | | | | | 62,000 | | |
| 120 | 205 | | | 100 | | | 600 | | |
| 98 | 200 | | | 200 | | | 4,500 | | |
| 26 | 160 | | | 200 | | | 4,200 | | |
| Avg. | 442 | 300 | | 200 | | | 24,717 | | |
| Tot. | 2,650 | | | | | | 148,300 | | |
| <u>FERTILIZER/FERTILIZER COMPONENTS</u> | | | | | | | | | |
| 31 | 1,000 | | | 350 | | | 20,000 | | |
| 136 | 800 | | | 350 | | | 60,000 | | |
| 60 | 800 | 80 | | | | | 16,500 | | |
| 207 | 300 | | | 400 | | | 60,000 | | |
| 153 | 300 | | | 250 | | | 88,000 | | |
| 180 | 150 | | | 125 | | | 15,000 | | |
| Avg. | 558 | 80 | | 295 | | | 43,250 | | |
| Tot. | 3,350 | | | | | | 259,500 | | |
| <u>MISCELLANEOUS ORES</u> | | | | | | | | | |
| 214 | 2,640 | | | 300 | | | 17,000 | | |
| 188 | 1,960 | | | 190 | | | 65,000 | | |
| 112 | 1,400 | | | 170 | | | 29,600 | | |
| 48 | 1,190 | | | | | | | | |
| 11 | 1,050 | | | 200 | | | | 3.0 | |
| 32 | 825 | | | | | | | 7.0 | |
| 120 | 800 | 500 | | | | 150,000 | | | |
| 116 | 780 | | | 250 | | | 4,000 | | |
| 186 | 650 | | | 300 | | | | 3.0 | |
| 52 | 380 | | 250 | | | | | | |
| 176 | 380 | | | | | 24,000 | | | |
| 275 | 200 | | | 100 | | 10,000 | | 2.0 | |
| 230 | 200 | 500 | | | | | | | |
| 232 | 200 | 100 | | | | | | | |
| 114 | 195 | | | | | | | | |
| 233 | 150 | | | | 100 | 50,000 | | | |
| 225 | 100 | | | 400 | | | | | |
| Avg. | 771 | 500 | 300 | 250 | 239 | 100 | 58,500 | 28,900 | 4 |
| Tot. | 13,100 | | | | | | 234,000 | 115,600 | 15.0 |

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|-------------------------------|-------------------|------------------------|--------------|--------------------------|------------|---------------------------|---------|-------|
| | | To Barge | from Storage | From Barge | to Storage | Open | Covered | Acres |
| <u>SAND, STONE AND GRAVEL</u> | | | | | | | | |
| 129 | 5,800 | | | | 200 | | 21,000 | |
| 121 | 2,745 | 1,500 | | | | 67,300 | | |
| 7 | 1,950 | | | | 1,000 | | 80,500 | |
| 155 | 1,745 | | | | 1,500 | 200,000 | | |
| 174 | 1,600 | 400 | | | | 1,000,000 | | |
| 33 | 1,570 | 1,400 | | | | 400,000 | | |
| 236 | 1,500 | | | | 1,500 | | 65,000 | |
| 158 | 1,400 | 1,500 | | | | 200,000 | | |
| 166 | 1,380 | 800 | | | | 100,000 | | |
| 86 | 1,365 | | | | 1,000 | | 24,000 | |
| 4 | 1,332 | | | | 250 | | | 12.0 |
| 238 | 1,225 | 900 | | | | 500,000 | | |
| 208 | 1,000 | 400 | | | | 100,000 | | |
| 167 | 1,000 | 150 | | | | 75,000 | | |
| 40 | 1,000 | 1,000 | | | | | 62,000 | |
| 41 | 1,000 | | | | 150 | 50,000 | | |
| 229 | 1,000 | 3,000 | | | | 115,000 | | |
| 51 | 1,000 | | | | 500 | 100,000 | | |
| 246 | 895 | 500 | | | | 20,000 | | |
| 13 | 890 | | | | 250 | 50,000 | | |
| 13 | 890 | | | | 600 | 13,100 | | |
| 76 | 875 | 500 | | | | 100,000 | | |
| 67 | 875 | | | | 400 | 150,000 | | |
| 1 | 850 | 450 | | | | 200,000 | | |
| 253 | 835 | | | | 300 | | 100,000 | |
| 15 | 700 | | | | | | | 9.0 |
| 119 | 676 | | | | 500 | 300,000 | | |
| 197 | 650 | | | | 250 | 40,000 | | |
| 117 | 600 | | | | | | | 12.0 |
| 131 | 600 | | | | | 600,000 | | |
| 237 | 600 | | | | 200 | 50,000 | | |
| 169 | 600 | 150 | | | | | | 2.0 |
| 135 | 600 | | | | 250 | 20,000 | | |
| 224 | 600 | | | | 500 | 500,000 | | |
| 18 | 520 | | | | 200 | | | |
| 149 | 480 | | | | 250 | 60,225 | 1,550 | |
| 118 | 470 | | | | 475 | 180,000 | | |
| 194 | 439 | | | | 500 | 100,000 | | |
| 205 | 430 | | | | 150 | 100,000 | | |
| 58 | 400 | | | | 100 | 750 | | |
| 121 | 390 | | | | 200 | | | 2.0 |
| 116 | 388 | 375 | | | | 25,000 | | |
| 37 | 350 | | | | | 3,000 | | |
| 143 | 340 | | | | 300 | 60,000 | | |
| 256 | 330 | | | | 160 | | 80 | 10.0 |
| 269 | 300 | | | | 100 | 8,000 | | |
| 5 | 300 | | | | 250 | | | |
| 202 | 300 | | | | 200 | 100,000 | | |

(Continued on following page)

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)
WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | | Acres | |
|-------------|-------------------|------------------------|--------------------|--------------------------|------------------|---------------------------|---------|-----------|---------|------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | | | |
| 33 | 300 | | 75 | | | 1,400 | | | | |
| 56 | 275 | | | | 200 | | 4,800 | | | |
| 150 | 250 | | | | 250 | 1,000,000 | | | | |
| 268 | 240 | | | | 100 | 8,000 | | | | |
| 151 | 200 | | | | 150 | 15,000 | | | | |
| 105 | 200 | | | 110 | | 10,000 | | | | |
| 106 | 200 | | | 110 | | 8,000 | | | | |
| 186 | 200 | | | | 300 | 115,000 | | | | |
| 63 | 200 | | | | 200 | 90,000 | | | | |
| 150 | 200 | | | | 600 | 100,000 | | | | |
| 113 | 200 | | | | 500 | 130,000 | | | | |
| 231 | 200 | | 500 | | | | | | | |
| 225 | 200 | | | | 500 | 20,000 | | | | |
| 24 | 195 | | | | 150 | | 1,100 | | | |
| 173 | 195 | | 1,300 | | | | | | | |
| 114 | 195 | | 500 | | | 150,000 | | | 5.0 | |
| 249 | 175 | | | | 300 | | | | | |
| 218 | 175 | | | | 150 | 20,000 | | | | |
| 115 | 175 | | | | 125 | 30,000 | | | | |
| 109 | 175 | | | | 250 | 10,000 | | | | |
| 106 | 175 | | | | 250 | 10,000 | | | | |
| 180 | 150 | | | | 100 | 7,000 | | | | |
| 185 | 150 | | | | 150 | | 1,800 | | | |
| 159 | 150 | | | | | | | | .5 | |
| 134 | 135 | | | | 300 | 200,000 | | | | |
| 96 | 110 | | | | | 50,000 | | | | |
| 177 | 100 | | | | 250 | 10,000 | | | | |
| 227 | 100 | | | | 40 | | 2,700 | | | |
| 227 | 100 | | | | 500 | 20,000 | | | | |
| 204 | 100 | | | | | | | | 1.0 | |
| 61 | 100 | | | | 400 | 25,000 | | | | |
| 172 | 100 | 1,100 | | | | 1,000,000 | | | | |
| 190 | 100 | | | | 500 | 10,000 | | | | |
| 95 | 100 | | | | 500 | 50,000 | | | | |
| <hr/> | | | | | | | | | | |
| Avg. | 642 | 835 | 767 | 110 | 358 | 333 | 148,250 | 30,378 | 6 | |
| Tot. 52,605 | | | | | | | | 8,746,775 | 364,530 | 53.5 |
| <hr/> | | | | | | | | | | |
| <u>SALT</u> | | | | | | | | | | |
| 153 | 300 | 250 | | | | | | 8,000 | 2.0 | |
| <hr/> | | | | | | | | | | |
| Avg. | 300 | 250 | | | | | | 8,000 | 2 | |
| <hr/> | | | | | | | | | | |
| Tot. | 300 | | | | | | 8,000 | 2.0 | | |
| <hr/> | | | | | | | | | | |

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)
WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | | Acres | |
|---------------------------------|-------------------|------------------------|--------------------|--------------------------|------------------|---------------------------|-----------|-----------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | | | |
| SCRAP METAL | | | | | | | | | | |
| 126 | 525 | | | | | | | | 13.0 | |
| 273 | 525 | | | | | | | | 5.0 | |
| 198 | 200 | | 50 | | | | 3,000 | | | |
| 49 | 175 | | | | | | 40,000 | | | |
| Avg. | 356 | | 50 | | | | 21,500 | | 9 | |
| Tot. | 1,425 | | | | | | 43,000 | | 18.0 | |
| MISCELLANEOUS BULK CARGO | | | | | | | | | | |
| 259 | 1,200 | | | | | | 20 | | 6.0 | |
| 140 | 1,160 | | | | | | 10,000 | | | |
| 177 | 1,000 | | | 300 | | | | | 100.0 | |
| 59 | 950 | | 500 | | 250 | | 10,000 | | | |
| 234 | 900 | | | 200 | | | | 3,000 | 15.0 | |
| 178 | 800 | | | 125 | | | | | 8.0 | |
| 15 | 750 | | | | | | | | 2.5 | |
| 99 | 745 | | | | 550 | | | | | |
| 30 | 700 | | | 175 | | | | | 8.0 | |
| 17 | 700 | | | | | | | | 8.0 | |
| 139 | 695 | | | 400 | | | 125,000 | | | |
| 184 | 650 | | | 150 | | | 3,000 | | | |
| 89 | 585 | | | | 250 | 250 | | 4,200 | 5.0 | |
| 263 | 550 | | | | | | | | 6.0 | |
| 39 | 525 | | | 150 | | | 250,000 | | | |
| 139 | 500 | | | | 150 | | | | | |
| 174 | 400 | 1,000 | | | | | 300,000 | | | |
| 146 | 400 | | | 400 | | | | | 5.0 | |
| 164 | 395 | | | | 150 | | | 40,000 | 7.0 | |
| 149 | 390 | | 500 | | | | | 12,000 | | |
| 93 | 300 | | | | | | | | 100.0 | |
| 153 | 300 | | | 250 | | | 1,000,000 | | | |
| 98 | 250 | 400 | | | | | | | 25.0 | |
| 228 | 200 | | | 150 | | | | | | |
| 148 | 200 | | | 500 | | | | | 25.0 | |
| 127 | 195 | 200 | | 200 | | | | | 35.0 | |
| 171 | 195 | | | | 150 | | | 40,000 | | |
| 88 | 195 | | | 250 | | | | 10,000 | | |
| 195 | 175 | | | | | | | | 2.0 | |
| 146 | 135 | | | | | | | 104 | | |
| 115 | 120 | 250 | | | | | | | | |
| 169 | 120 | | | 125 | | | | 10,000 | | |
| 229 | 115 | | | 150 | | | 50,000 | | 8.0 | |
| 140 | 100 | | | 700 | | | | | 10.0 | |
| Avg. | 488 | 470 | 500 | 400 | 255 | 236 | 250 | 194,224 | 14,913 | 21 |
| Tot. | 16,595 | | | | | | | 1,748,020 | 119,304 | 375.5 |

Date: 10/18/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| Ref. Berth No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|-------------------|-------------------------|---------------------------|-----------------------|-----------------------------|---------------------|------------------------------|------|---------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Rail | Open | Covered |

ALL FACILITIES

| | | | | | | | | | | |
|------|--------|-----|-----|-----|-----|-----|-----|------------|---------|-------|
| Avg. | 600 | 657 | 567 | 218 | 316 | 250 | 250 | 145,565 | 27,439 | 13.6 |
| Tot. | 90,025 | | | | | | | 10,771,795 | 1015234 | 464.0 |

Date: 10/03/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: TENNESSEE-TOMBIGEE WATERWAY

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|----------|-------------------|----------------------|------------------|------------------------|----------------|---------------------------|---------|-------|
| | | To Storage | Barge from Truck | From Storage | Barge to Truck | Open | Covered | Acres |

FERTILIZER/FERTILIZER COMPONENTS

| | | | | | | | | |
|------|-------|--|--|--|-----|--|--|--|
| 5 | 1,100 | | | | | | | |
| 16 | 210 | | | | 250 | | | |
| 14 | 200 | | | | 250 | | | |
| Avg. | 503 | | | | 250 | | | |
| Tot. | 1,510 | | | | | | | |

SAND, STONE AND GRAVEL

| | | | | | | | | |
|------|-----|-----|--|--|-----|--|--|--|
| 19 | 400 | 150 | | | | | | |
| 16 | 210 | | | | 250 | | | |
| 14 | 200 | | | | 250 | | | |
| Avg. | 270 | 150 | | | 250 | | | |
| Tot. | 810 | | | | | | | |

MISCELLANEOUS BULK CARGO

| | | | | | | | | |
|------|--------|--|--|--|--|--|--|-----|
| 20 | 7,800 | | | | | | | |
| 6 | 1,000 | | | | | | | |
| 3 | 1,000 | | | | | | | 2.0 |
| 9 | 950 | | | | | | | |
| 8 | 866 | | | | | | | |
| 18 | 670 | | | | | | | |
| 2 | 414 | | | | | | | 4.0 |
| 17 | 400 | | | | | | | |
| 11 | 200 | | | | | | | |
| Avg. | 1,478 | | | | | | | 3 |
| Tot. | 13,300 | | | | | | | 6.0 |

ALL FACILITIES

| | | | | | | | | |
|------|--------|-----|--|--|-----|--|--|-----|
| Avg. | 1,041 | 150 | | | 250 | | | 3.0 |
| Tot. | 15,620 | | | | | | | 6.0 |

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: TENNESSEE RIVER

| Ref. Berth No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy | | |
|-------------------|-------------------------|--------------------------------|------|--------------------------------|------|--------------------|---------|-------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Truck | Rail | (tons) Open | Covered | Acres |

ALL FACILITIES

| | | | | | | | | | |
|------|--------|-----|-----|-------|-----|-----|------------|--------|------|
| Avg. | 499 | 750 | 175 | 1,050 | 268 | 208 | 549,461 | 10,364 | 7.6 |
| Tot. | 23,931 | | | | | | 12,637,600 | 93,280 | 76.2 |

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: TENNESSEE RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|-------------------------------|-------------------|----------------------|--------------------|------------------------|------------------|---------------------------|---------|-------|
| | | To Barge | from Storage Truck | From Barge | to Storage Truck | Open | Covered | Acres |
| SAND, GRAVEL AND STONE | | | | | | | | |
| 39 | 1,345 | | 250 | | 175 | 6,000,000 | | |
| 140 | 880 | | | 200 | | 10,000 | | |
| 36 | 770 | | 100 | 250 | | | | |
| 104 | 600 | | | 125 | | 15,000 | | |
| 35 | 600 | | 100 | | | 6,000,000 | | |
| 149 | 595 | | 125 | 200 | | 100,000 | | |
| 58 | 300 | | | 150 | | | | 8.0 |
| 17 | 195 | | | | 175 | 10,000 | | |
| 181 | 195 | | | | | | | |
| 127 | 160 | | | | | 2,000 | | |
| 57 | 135 | | | 250 | | | | 8.0 |
| 72 | 70 | | | 100 | | 50,000 | | |
| Avg. | 487 | | 144 | 182 | 175 | 1,523,375 | | 8 |
| Tot. | 5,845 | | | | | 12,187,000 | | 16.0 |

| MISCELLANEOUS BULK CARGO | | | | | | | | | |
|---------------------------------|--------|-------|-----|-------|-----|---------|---------|--------|------|
| 180 | 1,850 | | | 600 | | | | 30.0 | |
| 95 | 1,800 | | | | | | | 7.0 | |
| 139 | 1,200 | 1,000 | | | | 35,000 | | | |
| 186 | 1,063 | | | | 300 | 20,000 | | | |
| 70 | 700 | | | 1,500 | | | | | |
| 10 | 700 | 500 | | | | 5,000 | 6,000 | | |
| 185 | 650 | | | | | 20,000 | | | |
| 136 | 560 | | 300 | | | | | 1.4 | |
| 87 | 530 | | | | | | | 1.3 | |
| 69 | 500 | | | | | 9,000 | 11,500 | | |
| 69 | 500 | | | | | | 9,500 | | |
| 142 | 490 | | | | | 15,000 | | | |
| 44 | 480 | | | | | | | | |
| 71 | 400 | | | | | | | 7.0 | |
| 52 | 400 | | | | 175 | | | | |
| 134 | 360 | | | | | | | | |
| 155 | 300 | | | | | | | | |
| 52 | 300 | | | | 200 | | | 8.0 | |
| 13 | 175 | | | | 300 | 120,000 | 9,000 | | |
| 184 | 150 | | | | | 4,000 | | | |
| 56 | 135 | | | | 200 | | | 4.0 | |
| 154 | 125 | | | 1,500 | | 10,000 | | | |
| Avg. | 608 | 750 | 300 | 1,050 | 575 | 225 | 26,444 | 9,000 | 8 |
| Tot. | 13,368 | | | | | | 238,000 | 36,000 | 58.7 |

Date: 10/19/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: **TENNESSEE RIVER**

| Ref. No. | Berth Length (ft) | Loading rate (Bu/Hr) | | Unloading rate (Bu/Hr) | | Total Storage Capy (tons) | | |
|---------------------------|-------------------|----------------------|------------|------------------------|----------|---------------------------|---------|-------|
| | | To Storage | from Barge | From Storage | to Barge | Open | Covered | Acres |
| CEMENT | | | | | | | | |
| 141 | 338 | | | 200 | | 6,000 | | |
| 88 | 285 | | | 70 | | 5,280 | | |
| 9 | 250 | | | 200 | | 12,000 | | |
| Avg. | 291 | | | 157 | | 7,760 | | |
| Tot. | 873 | | | | | 23,280 | | |
| FERTILIZER | | | | | | | | |
| 43 | 520 | | | 125 | | 30,000 | | |
| 97 | 195 | | | | 150 | | | |
| 13 | 175 | | | 300 | | 9,000 | | |
| Avg. | 297 | | | 213 | 150 | 30,000 | 9,000 | |
| Tot. | 890 | | | | | 30,000 | 9,000 | |
| MISCELLANEOUS ORES | | | | | | | | |
| 47 | 380 | | | 150 | | 45,000 | | |
| 125 | 310 | | | 300 | | | 25,000 | |
| 28 | 280 | | | | 400 | | | |
| 172 | 195 | | | | 150 | 100,000 | | |
| Avg. | 291 | | | 225 | 275 | 72,500 | 25,000 | |
| Tot. | 1,165 | | | | | 145,000 | 25,000 | |
| SALT | | | | | | | | |
| 34 | 700 | | | 175 | | 12,600 | | |
| 78 | 415 | | | | 150 | 20,000 | | |
| Avg. | 558 | | | 175 | 150 | 16,300 | | |
| Tot. | 1,115 | | | | | 32,600 | | |
| SCRAP METAL | | | | | | | | |
| 89 | 480 | | | | | | | 1.5 |
| 147 | 195 | | | | | 5,000 | | |
| Avg. | 338 | | | | | 5,000 | | 2 |
| Tot. | 675 | | | | | 5,000 | | 1.5 |

Date: 9/02/88

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: OUACHITA RIVER

| Ref. No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|----------|-------------------|------------------------|-----------------------|--------------------------|---------------------|---------------------------|---------|-------|
| | | To Storage | Barge from Truck Rail | From Storage | Barge to Truck Rail | Open | Covered | Acres |

MISCELLANEOUS (UNSPECIFIED)

| | | | | | | | | |
|------|-----|--|--|--|--|--|--|--------|
| 18 | 250 | | | | | | | 39,000 |
| 1 | 200 | | | | | | | 5,500 |
| Avg. | 225 | | | | | | | 22,250 |
| Tot. | 450 | | | | | | | 44,500 |

ALL FACILITIES

| | | | | | | | | |
|------|-----|--|--|--|--|--|--|--------|
| Avg. | 225 | | | | | | | 22,250 |
| Tot. | 450 | | | | | | | 44,500 |

SUMMARY OF DRY BULK-HANDLING BARGE FACILITIES
(excluding coal)

WATERWAY: WHITE RIVER

| Ref. Berth No. | Berth Length (ft) | Loading rate (Tons/Hr) | | Unloading rate (Tons/Hr) | | Total Storage Capy (tons) | | |
|-------------------|-------------------------|--------------------------------|------|--------------------------------|------|------------------------------|---------|-------|
| | | To Barge from Storage Truck | Rail | From Barge to Storage Truck | Rail | Open | Covered | Acres |

FERTILIZER/FERTILIZER COMPONENTS

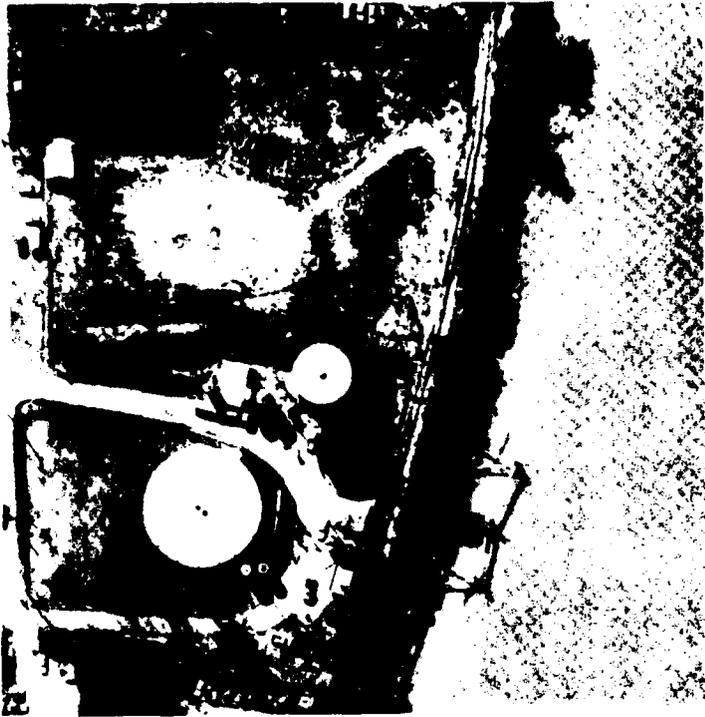
| | | | | | | | | |
|------|-----|--|--|-----|--|--|--------|--|
| 7 | 200 | | | 100 | | | 20,000 | |
| 4 | 130 | | | 100 | | | 4,000 | |
| Avg. | 165 | | | 100 | | | 12,000 | |
| Tot. | 330 | | | | | | 24,000 | |

SAND, GRAVEL AND STONE

| | | | | | | | | |
|------|-----|--|--|--|--|--|---------|--|
| 13 | 160 | | | | | | 150,000 | |
| Avg. | 160 | | | | | | 150,000 | |
| Tot. | 160 | | | | | | 150,000 | |

ALL FACILITIES

| | | | | | | | | |
|------|-----|--|--|-----|--|--|---------|--------|
| Avg. | 163 | | | 100 | | | 150,000 | 12,000 |
| Tot. | 490 | | | | | | 150,000 | 24,000 |



LIQUID BULK HANDLING TERMINALS

This category is further subdivided into 8 subcategories, each being arranged according to descending tankage: Ammonia (including anhydrous and aqua ammonia); Alcohol; Chemicals/Petrochemicals; Fertilizer; Molasses; Sludge; Sulphur; Vegetable/Animal Oils; and Miscellaneous (unspecified, liquid salt, sugar, tung oil, creosote, etc.).

Tankages of miscellaneous items are given in gallons and those of specific items in tons, thus rendering a grand summary of all liquid bulk facilities meaningless.

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ALABAMA RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|---------------------------------|----------------------------|-------------------------------|---------|---------|
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 114 | 650 | R | 999,600 | GALLONS |
| AVERAGE: | 650 | | 999,600 | GALLONS |
| TOTAL | 650 | | 999,600 | GALLONS |

Date: 9/30/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ALLEGHENY RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|---------------------------------|-------------------------|-------------------------------|-----------|---------|
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 228 | 350 | R/S | 4,500,300 | GALLONS |
| 214 | 200 | R | 3,507,000 | GALLONS |
| 232 | 300 | R | 275,100 | GALLONS |
| AVERAGE: | 283 | | 2,760,800 | GALLONS |
| TOTAL | 850 | | 8,282,400 | GALLONS |
| <u>VEGETABLE/ANIMAL OILS</u> | | | | |
| 245 | 175 | S | 2,900 | TONS |
| AVERAGE: | 175 | | 2,900 | TONS |
| TOTAL | 175 | | 2,900 | TONS |

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

Date: 10/04/88

WATERWAY: APALACHICOLA, CHATTAHOOCHEE, AND FLINT RIVERS

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|---------------------------------|----------------------|-------------------------|------------|---------|
| <u>AMMONIA</u> | | | | |
| 10 | 900 | R | 50,000 | TONS |
| AVERAGE: | 900 | | 50,000 | TONS |
| TOTAL | 900 | | 50,000 | TONS |
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 13 | 40 | R | 9,996,000 | GALLONS |
| 12 | 150 | R | 6,132,000 | GALLONS |
| 24 | 402 | R | 4,998,000 | GALLONS |
| 10 | 900 | R | 3,250,800 | GALLONS |
| 18 | 516 | R | 1,499,400 | GALLONS |
| AVERAGE: | 402 | | 5,175,240 | GALLONS |
| TOTAL | 2,008 | | 25,876,200 | GALLONS |
| <u>FERTILIZER</u> | | | | |
| 19 | 354 | S | 10,995 | TONS |
| 10 | 900 | R/S | 6,000 | TONS |
| AVERAGE: | 627 | | 8,498 | TONS |
| TOTAL | 1,254 | | 16,995 | TONS |
| <u>MOLASSES</u> | | | | |
| 23 | 586 | R | 499,800 | GALLONS |
| AVERAGE: | 586 | | 499,800 | GALLONS |
| TOTAL | 586 | | 499,800 | GALLONS |
| <u>ALL FACILITIES</u> | | | | |
| AVERAGE: | 528 | | | |
| TOTAL: | 4,748 | | | |

Date: 10/11/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ARKANSAS AND VERDIGRIS RIVERS (McCLELLAN-KERR - ARKANSAS RIVER NAVIGATION SYSTEM)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|------------------------------------|----------------------|-------------------------|-----------|---------|
| <u>FERTILIZER</u> | | | | |
| 41 | 200 | | 10,400 | TONS |
| 22 | 250 | | 5,500 | TONS |
| 14 | 540 | | 4,000 | TONS |
| 75 | 700 | | 920 | TONS |
| 80 | 340 | | | |
| <hr/> | | | | |
| AVERAGE: | 406 | | 5,205 | |
| TOTAL | 2,030 | | 20,820 | |
| <hr/> | | | | |
| <u>MOLASSES</u> | | | | |
| 33 | 830 | | 6,500 | TONS |
| 75 | 700 | | 1,500 | TONS |
| <hr/> | | | | |
| AVERAGE: | 765 | | 4,000 | TONS |
| TOTAL | 1,530 | | 8,000 | TONS |
| <hr/> | | | | |
| <u>MISCELLANEOUS (UNSPECIFIED)</u> | | | | |
| 21 | 300 | | 2,100,000 | GALLONS |
| 41 | 200 | | 1,050,000 | GALLONS |
| <hr/> | | | | |
| AVERAGE: | 250 | | 1,575,000 | GALLONS |
| TOTAL | 500 | | 3,150,000 | GALLONS |
| <hr/> | | | | |
| <u>ALL FACILITIES</u> | | | | |
| AVERAGE: | 451 | | | |
| TOTAL: | 4,060 | | | |

Date: 10/03/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: BLACK WARRIOR-TOMBIGBEE-MOBILE RIVERS (BLACK WARRIOR RIVER SYSTEM)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|--|----------------------------|-------------------------------|------------|---------|
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 69 | 330 | R | 5,544,000 | GALLONS |
| 60 | 700 | R | 3,100,000 | GALLONS |
| 67 | 200 | R | 1,995,000 | GALLONS |
| 59 | 200 | R | 1,505,000 | GALLONS |
| 44 | 400 | R/S | 1,250,000 | GALLONS |
| 46 | 200 | S | 570,000 | GALLONS |
| 26 | 400 | S | 420,000 | GALLONS |
| 28 | 200 | R | 280,000 | GALLONS |
| 36 | 200 | S | 191,800 | GALLONS |
| AVERAGE: | 314 | | 1,650,644 | GALLONS |
| TOTAL | 2,830 | | 14,855,800 | GALLONS |

Date: 10/14/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: COLUMBIA-SNAKE RIVER SYSTEM (ABOVE THE DALLES - MILE 191.5)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|-----------------------|----------------------------|-------------------------------|---------|-------|
| <u>AMMONIA</u> | | | | |
| 120 | 480 | R/S | 51,600 | TONS |
| 118 | 110 | S | 3,900 | TONS |
| AVERAGE: | 295 | | 27,750 | TONS |
| TOTAL | 590 | | 55,500 | TONS |
| <u>FERTILIZER</u> | | | | |
| 133 | 135 | R/S | 78,800 | TONS |
| 118 | 110 | S | 33,000 | TONS |
| 114 | 300 | R/S | 10,200 | TONS |
| 141 | 204 | R | 4,100 | TONS |
| 142 | 375 | R | 2,800 | TONS |
| AVERAGE: | 225 | | 25,780 | TONS |
| TOTAL | 1,124 | | 128,900 | TONS |
| <u>MOLASSES</u> | | | | |
| 133 | 135 | R/S | 4,000 | TONS |
| AVERAGE: | 135 | | 4,000 | TONS |
| TOTAL | 135 | | 4,000 | TONS |
| <u>ALL FACILITIES</u> | | | | |
| AVERAGE: | 231 | | | |
| TOTAL: | 1,849 | | | |

Date: 9/29/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: CUMBERLAND RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|---------------------------------|----------------------------|-------------------------------|------------|---------|
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 29 | 330 | R | 15,000,000 | GALLONS |
| 17 | 300 | R | 1,147,000 | GALLONS |
| 16 | 550 | S | 14,300 | GALLONS |
| <hr/> | | | | |
| AVERAGE: | 393 | | 5,387,100 | GALLONS |
| TOTAL | 1,180 | | 16,161,300 | GALLONS |

Date: 10/13/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|----------------|-------------------------|-------------------------------|-----------|---------|
| ALCOHOL | | | | |
| 125 | 400 | S | 4,000,000 | GALLONS |
| 128 | 200 | R | 3,500,000 | GALLONS |
| AVERAGE: | 300 | | 3,750,000 | GALLONS |
| TOTAL | 600 | | 7,500,000 | GALLONS |
| AMMONIA | | | | |
| 30 | 400 | R | 60,000 | TONS |
| 96 | 440 | R | 42,500 | TONS |
| 137 | 600 | R | 40,000 | TONS |
| 58 | 470 | R | 30,000 | TONS |
| 83 | 540 | R | 25,000 | TONS |
| 119 | 200 | R | 20,000 | TONS |
| 7 | 320 | R | 20,000 | TONS |
| 81 | 265 | R | 20,000 | TONS |
| 114 | 400 | R | 20,000 | TONS |
| 94 | 1,070 | S | 10,000 | TONS |
| AVERAGE: | 471 | | 28,750 | TONS |
| TOTAL | 4,705 | | 287,500 | TONS |

Date: 10/13/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|-------------------|----------------------------|-------------------------------|-----------|---------|
| FERTILIZER | | | | |
| 7 | 320 | R | 39,000 | TONS |
| 17 | 320 | R | 34,600 | TONS |
| 150C | 275 | R | 25,450 | TONS |
| 114 | 400 | R | 23,000 | TONS |
| 143 | 1,000 | R | 23,000 | TONS |
| 99 | 120 | R/S | 22,000 | TONS |
| 29 | 200 | R | 21,000 | TONS |
| 29 | 200 | R | 21,000 | TONS |
| 108 | 285 | R | 20,900 | TONS |
| 128 | 200 | R | 16,500 | TONS |
| 92 | 875 | R | 16,500 | TONS |
| 96 | 440 | R | 16,000 | TONS |
| 18 | 250 | R | 15,000 | TONS |
| 85 | 200 | R | 11,000 | TONS |
| 86 | 400 | R | 11,000 | TONS |
| 129 | 315 | R | 5,190 | TONS |
| 147C | 600 | S | 1,700 | TONS |
| AVERAGE: | 376 | | 18,991 | TONS |
| TOTAL | 6,400 | | 322,840 | TONS |
| MOLASSES | | | | |
| 195C | 365 | R | 22,150 | TONS |
| 168C | 1,000 | R | 7,075 | TONS |
| 111 | 120 | R | 3,600 | TONS |
| 150C | 275 | X | 1,610 | TON |
| AVERAGE: | 440 | | 8,609 | TON |
| TOTAL | 1,760 | | 34,435 | TON |
| SLUDGE | | | | |
| 139 | 856 | X | 1,000,000 | GALLONS |
| AVERAGE: | 856 | | 1,000,000 | GALLONS |
| TOTAL | 856 | | 1,000,000 | GALLONS |

Date: 10/13/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

| REF. NO. | BERTHING RECEIPT LENGTH AND/OR (FT) SHIPMENT | TANKAGE | UNITS |
|---------------------------------|--|------------|---------|
| <u>CHEMICALS/PETROCHEMICALS</u> | | | |
| 83 | 540 R | 8,800,000 | GALLONS |
| 65 | 750 R | 8,000,000 | GALLONS |
| 83C | 920 R | 7,282,640 | GALLONS |
| 133 | 200 R | 7,000,000 | GALLONS |
| 69 | 567 R | 6,720,000 | GALLONS |
| 97C | 975 R | 5,700,000 | GALLONS |
| 110 | 175 R | 5,240,000 | GALLONS |
| 86C | 195 R | 5,050,000 | GALLONS |
| 70 | 260 R | 5,000,000 | GALLONS |
| 86 | 400 S | 4,750,000 | GALLONS |
| 100C | 2,740 R/S | 4,000,000 | GALLONS |
| 87C | 242 R | 3,818,000 | GALLONS |
| 98 | 160 R | 3,785,000 | GALLONS |
| 72 | 125 R | 3,700,000 | GALLONS |
| 98C | 600 R | 3,000,000 | GALLONS |
| 193C | 320 R | 2,288,000 | GALLONS |
| 67 | 195 R | 2,100,000 | GALLONS |
| 151C | 150 R/S | 1,950,000 | GALLONS |
| 202C | 150 R | 1,895,000 | GALLONS |
| 73 | 880 R | 1,690,000 | GALLONS |
| 63 | 340 X | 1,500,000 | GALLONS |
| 62C | 810 R/S | 1,000,000 | GALLONS |
| 8 | 140 X | 1,000,000 | GALLONS |
| 94 | 1,070 S | 813,000 | GALLONS |
| 71 | 1,270 R | 630,000 | GALLONS |
| 143 | 1,000 R | 500,000 | GALLONS |
| 24C | 680 R | 390,000 | GALLONS |
| 147C | 600 S | 44,200 | GALLONS |
| AVERAGE : | 588 | 3,487,351 | GALLONS |
| TOTAL | 16,454 | 97,645,840 | GALLONS |

Date: 10/13/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: ILLINOIS WATERWAY (INCLUDING BARGE FACILITIES AT THE PORT OF CHICAGO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|------------------------------------|----------------------------|-------------------------------|------------|---------|
| <u>SULPHUR</u> | | | | |
| 94 | 1,070 | S | 8,000 | TONS |
| AVERAGE: | 1,070 | | 8,000 | TONS |
| TOTAL | 1,070 | | 8,000 | TONS |
| <u>VEGETABLE/ANIMAL OILS</u> | | | | |
| 166C | 690 | R | 86,130 | TONS |
| 68 | 195 | R | 7,500 | TONS |
| 25C | 182 | R | 4,350 | TONS |
| 19C | 297 | R | 2,900 | TONS |
| 5 | 400 | R | 2,175 | TONS |
| 18 | 250 | S | 1,800 | TONS |
| AVERAGE: | 336 | | 17,476 | TONS |
| TOTAL | 2,014 | | 104,855 | TONS |
| <u>MISCELLANEOUS (UNSPECIFIED)</u> | | | | |
| 75C | 760 | R/S | 43,840,000 | GALLONS |
| 164C | 1,220 | R/S | 25,628,400 | GALLONS |
| 92C | 650 | R/S | 5,000,000 | GALLONS |
| 80C | 850 | R/S | 3,000,000 | GALLONS |
| 76C | 285 | X | 840,000 | GALLONS |
| 24 | 360 | S | 800,000 | GALLONS |
| 59C | 920 | R | 500,000 | GALLONS |
| AVERAGE: | 721 | | 11,372,629 | GALLONS |
| TOTAL | 5,045 | | 79,608,400 | GALLONS |
| <u>ALL FACILITIES</u> | | | | |
| AVERAGE: | 512 | | | |
| TOTAL: | 38,904 | | | |

Date: 10/14/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: KANAWHA RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|---------------------------------|----------------------------|-------------------------------|------------|---------|
| <u>AMMONIA</u> | | | | |
| 71 | 510 | R | 20,000 | TONS |
| AVERAGE: | 510 | | 20,000 | TONS |
| TOTAL | 510 | | 20,000 | TONS |
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 87 | 385 | R/S | 60,000,000 | GALLONS |
| 82 | 585 | R | 17,400,000 | GALLONS |
| 69 | 390 | R | 6,000,000 | GALLONS |
| 35 | 500 | R/S | 5,000,000 | GALLONS |
| 68 | 390 | R/S | 1,300,000 | GALLONS |
| 94 | 200 | X | 1,250,000 | GALLONS |
| 96 | 390 | R | 1,000,000 | GALLONS |
| 93 | 500 | R | 470,000 | GALLONS |
| 32 | 400 | S | 390,000 | GALLONS |
| 33 | 195 | S | 130,000 | GALLONS |
| AVERAGE: | 394 | | 9,294,000 | GALLONS |
| TOTAL | 3,935 | | 92,940,000 | GALLONS |
| <u>MISCELLANEOUS</u> | | | | |
| 31 | 400 | R | 4,000,000 | GALLONS |
| AVERAGE: | 400 | | 4,000,000 | GALLONS |
| TOTAL | 400 | | 4,000,000 | GALLONS |
| <u>ALL FACILITIES</u> | | | | |
| AVERAGE: | 404 | | | |
| TOTAL: | 4,845 | | | |

Date: 10/11/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE TO CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|---------------------------------|----------------------------|-------------------------------|-----------|---------|
| <u>AMMONIA</u> | | | | |
| 105M | 1,080 | S | 45,000 | TONS |
| 53M | 450 | R | 4,300 | TONS |
| AVERAGE: | 765 | | 24,650 | TONS |
| TOTAL | 1,530 | | 49,300 | TONS |
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 53M | 450 | R | 1,750,000 | GALLONS |
| 114M | 250 | R | 1,289,400 | GALLONS |
| AVERAGE: | 350 | | 1,519,700 | GALLONS |
| TOTAL | 700 | | 3,039,400 | GALLONS |
| <u>FERTILIZER</u> | | | | |
| 90N | 300 | R | 29,150 | TONS |
| 96M | 275 | R | 28,900 | TONS |
| 57N | 250 | S | 27,500 | TONS |
| 106M | 290 | R/S | 11,000 | TONS |
| 100M | 195 | R | 8,500 | TONS |
| 58N | 180 | R | 5,000 | TONS |
| 73N | 200 | S | 5,000 | TONS |
| 118M | 358 | S | | TONS |
| AVERAGE: | 256 | | 16,436 | TONS |
| TOTAL | 2,048 | | 115,050 | TONS |

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

Date: 10/11/88

WATERWAY: LOWER MISSISSIPPI RIVER (BATON ROUGE TO CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|------------------------------------|----------------------------|-------------------------------|---------|-------|
| <u>VEGETABLE/ANIMAL OILS</u> | | | | |
| 120M | 240 | S | 4,500 | TONS |
| 51N | 450 | S | 4,500 | TONS |
| 111M | 540 | S | 3,800 | TONS |
| AVERAGE: | 410 | | 4,267 | TONS |
| TOTAL | 1,230 | | 12,800 | TONS |
| <u>MISCELLANEOUS (UNSPECIFIED)</u> | | | | |
| 126M | 700 | R/S | 45,500 | TONS |
| 4M | 195 | R/S | 11,000 | TONS |
| AVERAGE: | 448 | | 28,250 | TONS |
| TOTAL | 895 | | 56,500 | TONS |
| <u>ALL FACILITIES</u> | | | | |
| AVERAGE: | 377 | | | |
| TOTAL: | 6,403 | | | |

Date: 10/11/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO TO MISSOURI RIVER)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|---------------------------------|----------------------------|-------------------------------|------------|---------|
| <u>ALCOHOL</u> | | | | |
| 132 | 195 | R | 12,000 | GALLONS |
| AVERAGE: | 195 | | 12,000 | GALLONS |
| TOTAL | 195 | | 12,000 | GALLONS |
| <u>AMMONIA</u> | | | | |
| 20 | 360 | R/S | 31,000 | TONS |
| 150 | 450 | R/S | 30,000 | TONS |
| AVERAGE: | 405 | | 30,500 | TONS |
| TOTAL | 810 | | 61,000 | TONS |
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 119 | 195 | R/S | 6,000,000 | GALLONS |
| 132 | 195 | R | 5,952,000 | GALLONS |
| 23 | 195 | R/S | 4,970,000 | GALLONS |
| 102 | 140 | R | 2,800,000 | GALLONS |
| 147 | 170 | S | 1,632,200 | GALLONS |
| 88 | 875 | R | 630,000 | GALLONS |
| 35 | 435 | R/S | 600,000 | GALLONS |
| AVERAGE: | 315 | | 3,226,314 | GALLONS |
| TOTAL | 2,205 | | 22,584,200 | GALLONS |
| <u>FERTILIZER</u> | | | | |
| 10 | 700 | S | 45,300 | TONS |
| 150 | 450 | R/S | 20,000 | TONS |
| 30 | 400 | R | 16,500 | TONS |
| 35 | 435 | R/S | 16,500 | TONS |
| 158 | 195 | R | 10,100 | TONS |
| AVERAGE: | 436 | | 21,680 | TONS |
| TOTAL | 2,180 | | 108,400 | TONS |

Date: 10/11/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: MIDDLE MISSISSIPPI RIVER (CAIRO TO MISSOURI RIVER)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|------------------------------------|----------------------|-------------------------|-----------|---------|
| <u>MOLASSES</u> | | | | |
| 107 | 195 | R | 17,000 | TONS |
| AVERAGE: | 195 | | 17,000 | TONS |
| TOTAL | 195 | | 17,000 | TONS |
| <u>VEGETABLE/ANIMAL OILS</u> | | | | |
| 35 | 435 | R/S | 48,500 | TONS |
| AVERAGE: | 435 | | 48,500 | TONS |
| TOTAL | 435 | | 48,500 | TONS |
| <u>MISCELLANEOUS (UNSPECIFIED)</u> | | | | |
| 116 | 390 | R/S | 1,055,000 | GALLONS |
| AVERAGE: | 390 | | 1,055,000 | GALLONS |
| TOTAL | 390 | | 1,055,000 | GALLONS |
| <u>ALL FACILITIES</u> | | | | |
| AVERAGE: | 356 | | | |
| TOTAL: | 6,410 | | | |

Date: 10/11/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|---------------------------------|----------------------------|-------------------------------|-----------|---------|
| <u>ALCOHOL</u> | | | | |
| 214 | 635 | S | 1,500,000 | GALLONS |
| 70 | 200 | R/S | 1,341,000 | GALLONS |
| 138 | 600 | R | 1,200,000 | GALLONS |
| AVERAGE: | 478 | | 1,347,000 | GALLONS |
| TOTAL | 1,435 | | 4,041,000 | GALLONS |
| <u>AMMONIA</u> | | | | |
| 232 | 2,000 | S | 60,000 | TONS |
| 136 | 585 | R | 60,000 | TONS |
| 20 | 400 | R/S | 60,000 | TONS |
| 25 | 225 | S | 40,000 | TONS |
| 176 | 500 | R | 30,000 | TONS |
| 10 | 225 | R/S | 30,000 | TONS |
| 246 | 450 | R/S | 30,000 | TONS |
| 54 | 200 | R/S | 30,000 | TONS |
| 248 | 280 | R | 25,000 | TONS |
| 68 | 740 | R/S | 20,000 | TONS |
| AVERAGE: | 561 | | 38,500 | TONS |
| TOTAL | 5,605 | | 385,000 | TONS |
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 184 | 220 | R | 2,703,600 | GALLONS |
| 210 | 195 | R | 2,000,000 | GALLONS |
| 220 | 180 | R | 1,500,000 | GALLONS |
| 248 | 280 | R | 1,400,000 | GALLONS |
| 222 | 200 | R | 1,200,000 | GALLONS |
| 127 | 225 | R | 1,040,000 | GALLONS |
| AVERAGE: | 217 | | 1,640,600 | GALLONS |
| TOTAL | 1,300 | | 9,843,600 | GALLONS |

Date: 10/11/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|-------------------|----------------------------|-------------------------------|---------|-------|
| FERTILIZER | | | | |
| 25 | 225 | S | 80,000 | TONS |
| 154 | 200 | R | 44,000 | TONS |
| 24 | 350 | R/S | 33,000 | TONS |
| 20 | 400 | R/S | 30,000 | TONS |
| 136 | 585 | R | 25,000 | TONS |
| 172 | 320 | R | 22,000 | TONS |
| 236 | 550 | R | 20,350 | TONS |
| 13 | 960 | R | 19,500 | TONS |
| 19 | 100 | R | 16,500 | TONS |
| 224 | 130 | S | 11,000 | TONS |
| 51 | 60 | R | 11,000 | TONS |
| 207 | 400 | R | 11,000 | TONS |
| 68 | 740 | R/S | 4,675 | TONS |
| 173 | 390 | R | 3,619 | TONS |
| 179 | 450 | S | 3,300 | TONS |
| 17 | 500 | R | 3,000 | TONS |
| 160 | 195 | R | 2,365 | TONS |
| AVERAGE: | 386 | | 20,018 | TONS |
| TOTAL | 6,555 | | 340,309 | TONS |
| MOLASSES | | | | |
| 173 | 390 | R | 47,016 | TONS |
| 68 | 195 | R | 41,139 | TONS |
| 70 | 200 | R/S | 31,253 | TONS |
| 19 | 100 | R | 29,385 | TONS |
| 218 | 510 | R | 20,000 | TONS |
| 210 | 195 | R | 17,631 | TONS |
| AVERAGE: | 265 | | 31,071 | TONS |
| TOTAL | 1,590 | | 186,424 | TONS |

Date: 10/11/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: UPPER MISSISSIPPI RIVER (MISSOURI RIVER TO MINNEAPOLIS)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|------------------------------|----------------------------|-------------------------------|---------|-------|
| <u>VEGETABLE/ANIMAL OILS</u> | | | | |
| 2 | 350 | S | 15,000 | TONS |
| 172 | 320 | S | 14,790 | TONS |
| 143 | 300 | S | 12,000 | TONS |
| 210 | 195 | S | 8,700 | TONS |
| 70 | 200 | R/S | 5,833 | TONS |
| 60 | 750 | S | 3,100 | TONS |
| 66 | 1,000 | S | 1,400 | TONS |
| <hr/> | | | | |
| AVERAGE: | 445 | | 8,689 | TONS |
| TOTAL | 3,115 | | 60,823 | TONS |

ALL FACILITIES

AVERAGE: 400
TOTAL: 19,600

Date: 10/11/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: MISSOURI RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|---------------------------------|----------------------------|-------------------------------|-----------|---------|
| <u>AMMONIA</u> | | | | |
| 100 | 475 | R | 50,000 | TONS |
| AVERAGE: | 475 | | 50,000 | TONS |
| TOTAL | 475 | | 50,000 | TONS |
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 42 | 600 | R | 6,132,500 | GALLONS |
| 84 | 300 | R | 3,000,000 | GALLONS |
| AVERAGE: | 450 | | 4,566,250 | GALLONS |
| TOTAL | 900 | | 9,132,500 | GALLONS |
| <u>FERTILIZER</u> | | | | |
| 60 | 275 | R | 73,000 | TONS |
| 91 | 175 | R | 52,060 | TONS |
| 79 | 130 | R | 31,200 | TONS |
| 81 | 550 | S | 27,500 | TONS |
| 87 | 300 | R | 27,300 | TONS |
| 100 | 475 | R | 21,000 | TONS |
| 19 | 300 | R/S | 16,500 | TONS |
| 36 | 195 | R | 14,850 | TONS |
| 70 | 210 | R | 13,900 | TONS |
| 8 | 400 | R | 12,350 | TONS |
| 25 | 855 | R | 11,000 | TONS |
| 106 | 900 | R | 11,000 | TONS |
| 69 | 195 | R | 9,600 | TONS |
| 28 | 600 | R | 5,500 | TONS |
| 42 | 600 | R | 2,850 | TONS |
| AVERAGE: | 411 | | 21,974 | TONS |
| TOTAL | 6,160 | | 329,610 | TONS |

Date: 10/11/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: MISSOURI RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|------------------------------|----------------------------|-------------------------------|---------|-------|
| <u>MOLASSES</u> | | | | |
| 106 | 900 | R | 25,000 | TONS |
| 83 | 260 | R | 25,000 | TONS |
| 57 | 400 | R | 19,000 | TONS |
| 19 | 300 | R/S | 8,800 | TONS |
| AVERAGE: | 465 | | 19,450 | TONS |
| TOTAL | 1,860 | | 77,800 | TONS |
| <u>VEGETABLE/ANIMAL OILS</u> | | | | |
| 103 | 1,136 | S | 21,750 | TONS |
| 66 | 697 | S | 11,750 | TONS |
| 107 | 250 | R/S | 6,200 | TONS |
| 79 | 130 | S | 2,900 | TONS |
| 104 | 150 | S | 2,200 | TONS |
| AVERAGE: | 473 | | 8,960 | TONS |
| TOTAL | 2,363 | | 44,800 | TONS |
| <u>ALL FACILITIES</u> | | | | |
| AVERAGE: | 435 | | | |
| TOTAL: | 11,758 | | | |

Date: 9/30/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: **MONOGAHELA RIVER**

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|----------------|----------------------|-------------------------|---------|-------|
| <u>AMMONIA</u> | | | | |
| 81 | 700 | S | 20,000 | TONS |
| 175 | 390 | R | 20,000 | TONS |
| 103 | 295 | R | 1,300 | TONS |
| <hr/> | | | | |
| AVERAGE: | 462 | | 13,767 | TONS |
| TOTAL | 1,385 | | 41,300 | TONS |

| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
|---------------------------------|-------|-----|------------|---------|
| 86 | 175 | R/S | 7,000,000 | GALLONS |
| 78 | 1,200 | R/S | 3,700,000 | GALLONS |
| 175 | 390 | S | 540,000 | GALLONS |
| 185 | 150 | R | 450,000 | GALLONS |
| 203 | 150 | R | 120,000 | GALLONS |
| <hr/> | | | | |
| AVERAGE: | 413 | | 2,362,000 | GALLONS |
| TOTAL | 2,065 | | 11,810,000 | GALLONS |

| <u>ALL FACILITIES</u> | | | | |
|-----------------------|-------|--|--|--|
| AVERAGE: | 431 | | | |
| TOTAL: | 3,450 | | | |

Date: 10/14/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|----------------|----------------------------|-------------------------------|---------|---------|
| <u>ALCOHOL</u> | | | | |
| 100L | 195 | R | 642,600 | GALLONS |
| AVERAGE: | 195 | | 642,600 | GALLONS |
| TOTAL | 195 | | 642,600 | GALLONS |
| <u>AMMONIA</u> | | | | |
| 60L | 800 | R | 45,000 | TONS |
| 152C | 200 | R | 20,000 | TONS |
| 221L | 150 | R | 15,000 | TONS |
| AVERAGE: | 383 | | 26,667 | TONS |
| TOTAL | 1,150 | | 80,000 | TONS |

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|---------------------------------|----------------------------|-------------------------------|-------------|---------|
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 137H | 150 | R | 14,070,000 | GALLONS |
| 89C | 450 | R/S | 12,409,091 | GALLONS |
| 128C | 160 | R | 9,996,000 | GALLONS |
| 9P | 160 | R | 9,100,000 | GALLONS |
| 49P | 134 | R | 8,786,610 | GALLONS |
| 55P | 540 | R/S | 8,400,000 | GALLONS |
| 55P | 540 | R/S | 8,400,000 | GALLONS |
| 46P | 290 | R/S | 7,500,000 | GALLONS |
| 271P | 270 | S | 7,140,000 | GALLONS |
| 232H | 100 | R | 6,426,000 | GALLONS |
| 272P | 300 | R | 6,300,000 | GALLONS |
| 147C | 195 | R | 5,800,200 | GALLONS |
| 274P | 440 | R | 4,620,000 | GALLONS |
| 131C | 175 | R | 3,150,000 | GALLONS |
| 118H | 240 | R | 3,150,000 | GALLONS |
| 183H | 120 | R | 3,150,000 | GALLONS |
| 179H | 160 | R | 2,940,000 | GALLONS |
| 139C | 500 | R | 2,310,000 | GALLONS |
| 73C | 210 | R/S | 2,289,000 | GALLONS |
| 124L | 180 | R | 2,268,000 | GALLONS |
| 19P | 140 | S | 2,221,800 | GALLONS |
| 145H | 100 | R/S | 2,100,000 | GALLONS |
| 8C | 195 | R | 1,999,200 | GALLONS |
| 21P | 87 | R | 1,680,000 | GALLONS |
| 86C | 175 | R | 1,575,000 | GALLONS |
| 18H | 380 | R | 1,500,000 | GALLONS |
| 78C | 110 | R/S | 1,260,000 | GALLONS |
| 46C | 110 | R/S | 1,131,000 | GALLONS |
| 170H | 1,040 | R | 1,020,600 | GALLONS |
| 136H | 140 | R | 999,600 | GALLONS |
| 127C | 175 | R | 978,600 | GALLONS |
| 141C | 100 | R | 945,000 | GALLONS |
| 90L | 195 | R | 600,600 | GALLONS |
| 128H | 125 | R | 499,800 | GALLONS |
| 140H | 40 | R | 499,800 | GALLONS |
| 157C | 120 | S | 480,000 | GALLONS |
| 12P | 440 | S | 400,000 | GALLONS |
| 50P | 129 | R/S | 252,000 | GALLONS |
| 14P | 525 | R | 240,000 | GALLONS |
| 132L | 600 | S | | |
| 139H | 60 | S | | |
| <hr/> | | | | |
| AVERAGE: | 251 | | 3,809,946 | |
| TOTAL | 10,300 | | 148,587,901 | |

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

Date: 10/14/88

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|------------------------------|----------------------|-------------------------|-----------|---------|
| <u>FERTILIZER</u> | | | | |
| 221L | 150 | R | 38,000 | TONS |
| 181H | 150 | R | 33,033 | TONS |
| 136C | 800 | R | 30,250 | TONS |
| 114C | 175 | R | 27,489 | TONS |
| 147L | 175 | R | 25,410 | TONS |
| 60L | 800 | R | 18,000 | TONS |
| 152L | 200 | S | 16,500 | TONS |
| 88L | 195 | R | 13,190 | TONS |
| 138C | 120 | R | 12,705 | TONS |
| 153L | 300 | R | 8,246 | TONS |
| 207L | 300 | R | 4,998 | TONS |
| 124L | 180 | R | 4,620 | TONS |
| AVERAGE: | 295 | | 19,370 | TONS |
| TOTAL | 3,545 | | 232,441 | TONS |
| <u>MOLASSES</u> | | | | |
| 182H | 400 | R | 7,014,000 | GALLONS |
| 107L | 150 | R | 966,000 | GALLONS |
| 127C | 175 | R | 873,563 | GALLONS |
| AVERAGE: | 242 | | 2,951,188 | GALLONS |
| TOTAL | 725 | | 8,853,563 | GALLONS |
| <u>SULPHUR</u> | | | | |
| 46C | 110 | R | 1,300 | TONS |
| AVERAGE: | 110 | | 1,300 | TONS |
| TOTAL | 110 | | 1,300 | TONS |
| <u>VEGETABLE/ANIMAL OILS</u> | | | | |
| 137C | 120 | R | | |
| AVERAGE: | 120 | | | |
| TOTAL | 120 | | | |

Date: 10/14/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: OHIO RIVER (PITTSBURGH TO CAIRO)

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|----------------------|----------------------------|-------------------------------|-------------|---------|
| <u>MISCELLANEOUS</u> | | | | |
| 141P | 170 | R | 60,060,000 | GALLONS |
| 113C | 220 | R | 20,580,000 | GALLONS |
| 129L | 375 | R | 16,800,000 | GALLONS |
| 138C | 120 | R | 13,440,000 | GALLONS |
| 132H | 200 | S | 5,000,000 | GALLONS |
| 222L | 300 | R/S | 4,498,200 | GALLONS |
| 122L | 390 | R | 3,599,400 | GALLONS |
| 126L | 200 | R | 1,999,200 | GALLONS |
| 241L | 737 | R | 1,919,400 | GALLONS |
| 130L | 175 | R | 1,654,800 | GALLONS |
| 127L | 150 | R | 730,800 | GALLONS |
| 168L | 360 | R | 630,000 | GALLONS |
| 90L | 195 | R | 600,600 | GALLONS |
| 124L | 180 | R | 504,000 | GALLONS |
| 128L | 735 | R | 373,800 | GALLONS |
| AVERAGE: | 300 | | 8,826,013 | GALLONS |
| TOTAL | 4,507 | | 132,390,200 | GALLONS |

ALL FACILITIES

| | |
|----------|--------|
| AVERAGE: | 268 |
| TOTAL: | 20,652 |

Date: 9/28/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: OUACHITA RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|---------------------------------|----------------------------|-------------------------------|---------|---------|
| <u>AMMONIA</u> | | | | |
| 14 | 400 | S | 75,000 | TONS |
| AVERAGE: | 400 | | 75,000 | TONS |
| TOTAL | 400 | | 75,000 | TONS |
| <u>CHEMICALS/PETROCHEMICALS</u> | | | | |
| 16 | 450 | S | 420,000 | GALLONS |
| AVERAGE: | 450 | | 420,000 | GALLONS |
| TOTAL | 450 | | 420,000 | GALLONS |
| <u>VEGETABLE/ANIMAL OILS</u> | | | | |
| 13 | 300 | X | 2,000 | TONS |
| AVERAGE: | 300 | | 2,000 | TONS |
| TOTAL | 300 | | 2,000 | TONS |
| <u>ALL FACILITIES</u> | | | | |
| AVERAGE: | 383 | | | |
| TOTAL: | 1,150 | | | |

Date: 10/14/88

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

WATERWAY: TENNESSEE RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|------------------------------|-------------------------|-------------------------------|---------|---------|
| <u>VEGETABLE/ANIMAL OILS</u> | | | | |
| 99 | 575 | S | 14,500 | TONS |
| 159 | 1,100 | R | 11,100 | TONS |
| <hr/> | | | | |
| AVERAGE: | 838 | | | |
| TOTAL | 1,675 | | | |
| <hr/> | | | | |
| <u>MISCELLANEOUS</u> | | | | |
| 95 | 1,800 | R | 999,600 | GALLONS |
| 87 | 530 | S | 940,000 | GALLONS |
| <hr/> | | | | |
| AVERAGE: | 1,165 | | | |
| TOTAL | 2,330 | | | |
| <hr/> | | | | |
| <u>ALL FACILITIES</u> | | | | |
| AVERAGE: | 494 | | | |
| TOTAL: | 10,861 | | | |

SUMMARY OF LIQUID BULK HANDLING BARGE FACILITIES

Date: 9/28/88

WATERWAY: WHITE RIVER

| REF. NO. | BERTHING LENGTH (FT) | RECEIPT AND/OR SHIPMENT | TANKAGE | UNITS |
|-------------------|----------------------------|-------------------------------|---------|-------|
| <u>FERTILIZER</u> | | | | |
| 7 | 200 | R | 6,000 | TONS |
| 4 | 130 | R | 4,500 | TONS |
| AVERAGE: | 165 | | 5,250 | TONS |
| TOTAL | 330 | | 10,500 | TONS |

OTHER COMMODITIES:

Listed below are a number of commodity items not included in this report.

1. Forest products (lumber, logs, pulpwood, wood pulp, hog fuel, paper products).
2. General cargo (conventional and containerized).
3. Unitized cargo (steel, precast concrete, fabrications, plant equipment and machinery).
4. Building materials (brick, block, glass).
5. Seafood.
6. Refuse.

These commodity items, with the possible exception of forest products, altogether account for minimal inland waterway cargo tonnage. These items will be included in a future report.

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