



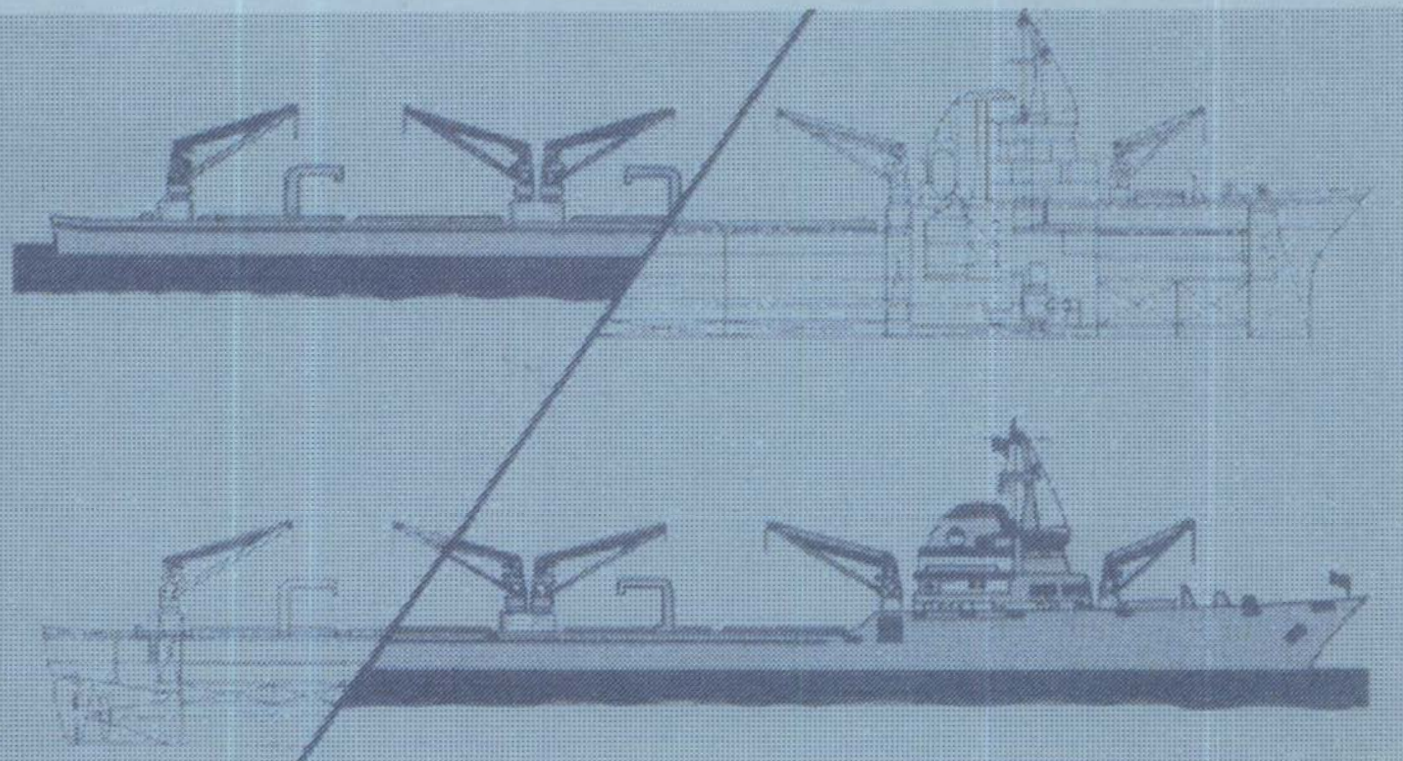
U.S. Department
of Transportation

**Maritime
Administration**

Washington, D.C. 20590

Office of Shipbuilding
Technology

**MAJOR U.S. SHIPBUILDING
AND
REPAIR BASE FACILITIES**
Executive Summary
1999 UPDATE



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AND
REPAIR BASE FACILITIES
*Executive Summary***

1999 UPDATE

**Prepared by
Division of Cost Analysis & Production
Office of Ship Construction**

December 1999

MAJOR U.S. PRIVATE SHIPBUILDING AND REPAIR BASE FACILITIES

1999 UPDATE

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EXECUTIVE SUMMARY

CHANGES TO MAJOR SHIPBUILDING AND REPAIR BASE IN 1999

SHIPYARDS ADDED: (4)

GULF COASTS:

Bludworth Bond Shipyard, Texas City Yard - Houston, TX
Bollinger Algiers, LLC - New Orleans, LA
Bollinger Fourchon, LLC - Golden Meadow, LA
Sabine Offshore Services, Inc. - Sabine Pass, TX

SHIPYARDS CLOSED: (1)

NON-CONUS:

Perez Y Cia, De Puerto Rico, Inc. - San Juan, PR

SHIPYARDS REOPENED:

NONE

SHIPYARDS DELETED:

NONE

EXECUTIVE SUMMARY

FACILITY INFORMATION

NUMBER OF PRIVATE SHIPYARDS IN THE MAJOR SHIPBUILDING AND REPAIR BASE

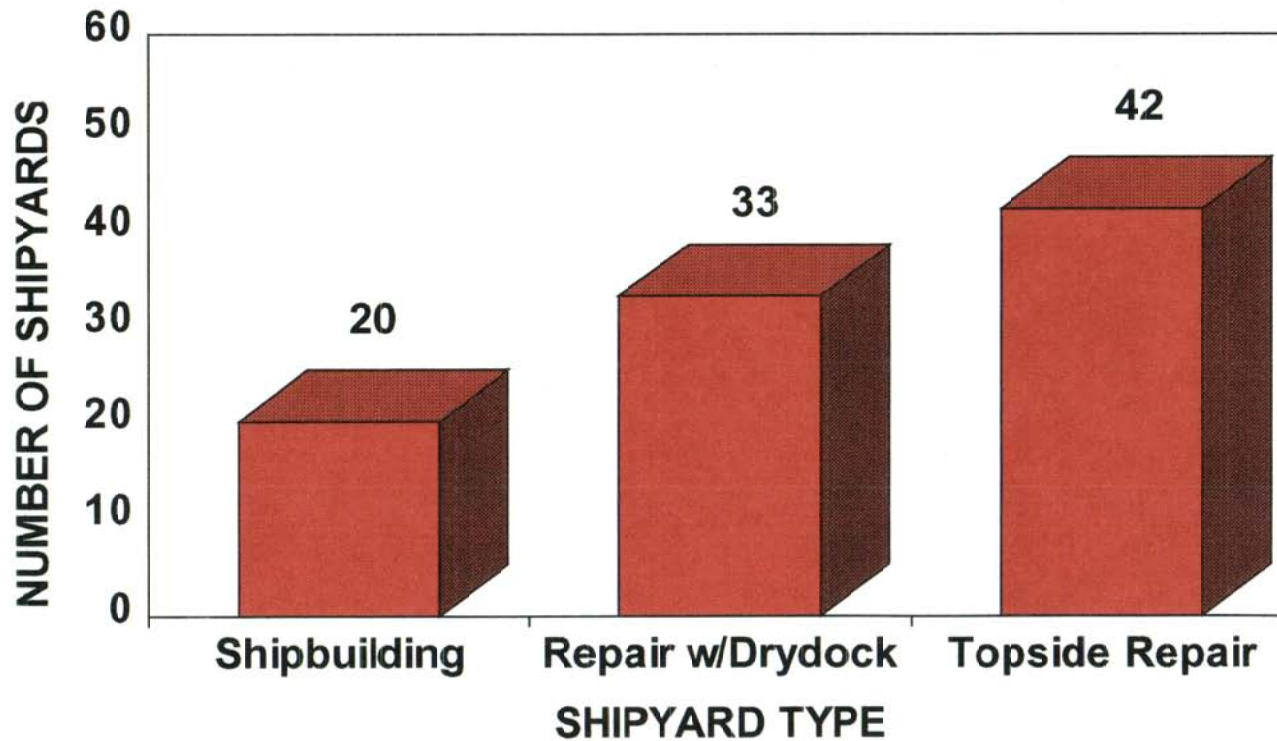
| | OCTOBER <u>1999</u> | OCTOBER <u>1982</u> |
|-------------|------------------------|------------------------|
| EAST COAST | 28 | 41 |
| GULF COAST | 39 | 33 |
| WEST COAST | 18 | 27 |
| GREAT LAKES | 7 | 6 |
| NON-CONUS | <u>3</u> | <u>3</u> |
| TOTAL | 95 | 110 |

CHANGES IN THE MAJOR SHIPBUILDING AND REPAIR BASE SINCE OCTOBER 1982

| | <u>CLOSED</u> | <u>RE-OPENED</u> | <u>ADDED</u> | <u>DELETED</u> |
|-------------|---------------|------------------|--------------|----------------|
| EAST COAST | 37 | 11 | 19 | 6 |
| GULF COAST | 20 | 8 | 30 | 11 |
| WEST COAST | 16 | 1 | 15 | 10 |
| GREAT LAKES | 6 | 2 | 5 | 1 |
| NON-CONUS | <u>2</u> | <u>1</u> | <u>2</u> | <u>0</u> |
| TOTAL | 81 | 23 | 71 | 28 |

U.S. PRIVATE SHIPYARDS

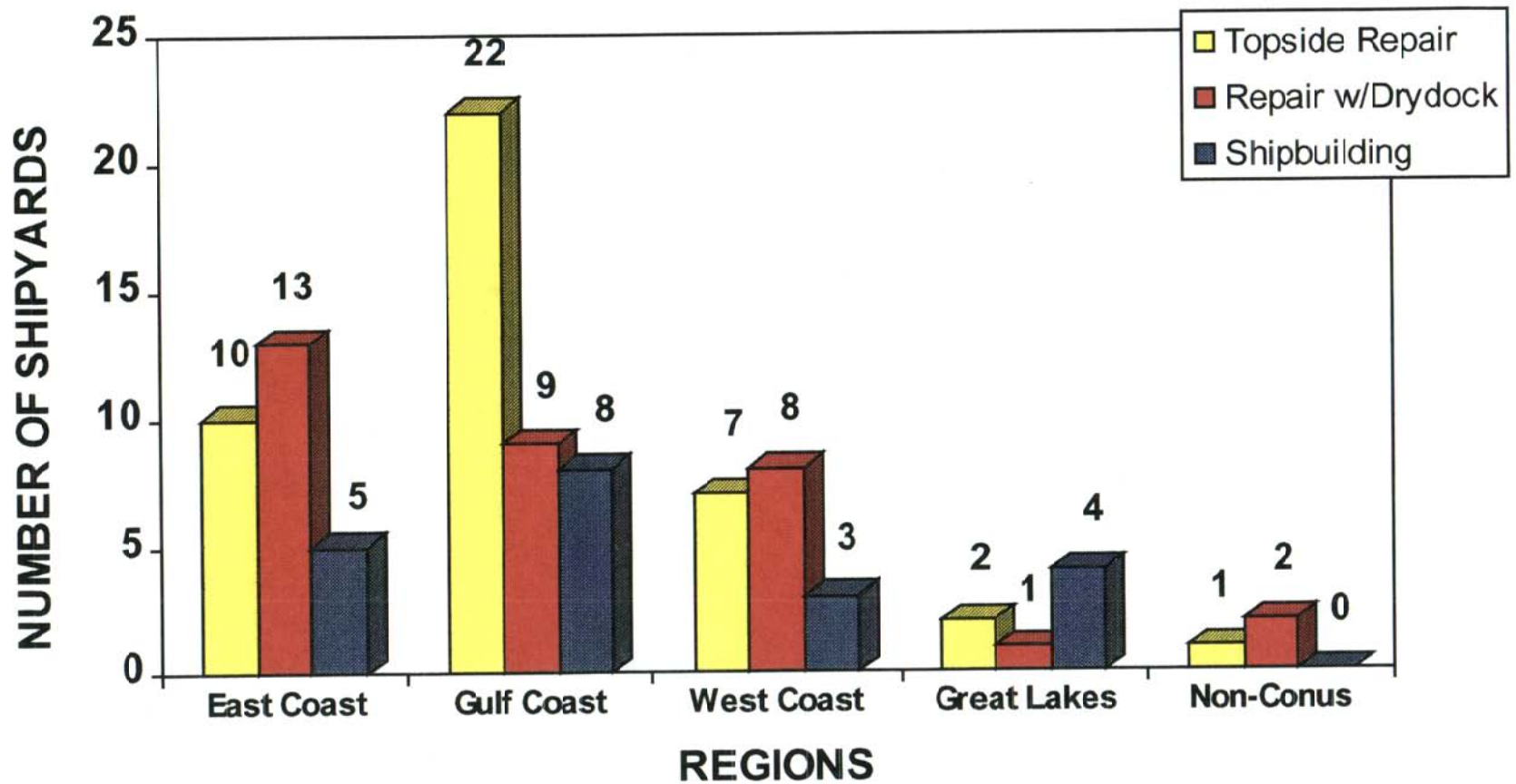
MAJOR SHIPBUILDING AND REPAIR BASE - OCTOBER 1999



PRIVATE SHIPYARDS BY CLASSIFICATION

MAJOR SHIPBUILDING AND REPAIR BASE - OCTOBER 1999

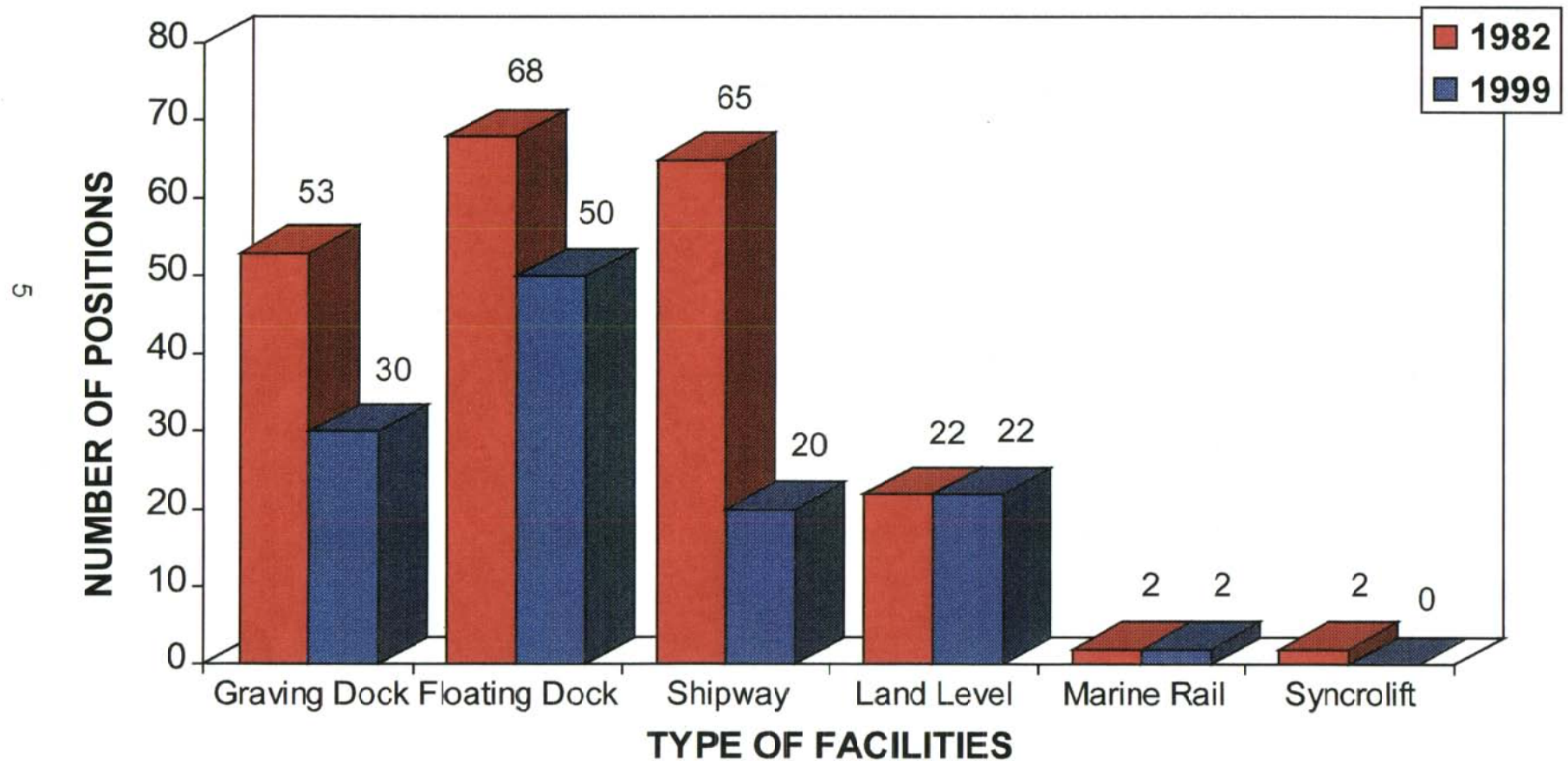
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MAJOR SHIPBUILDING AND REPAIR BASE FACILITIES

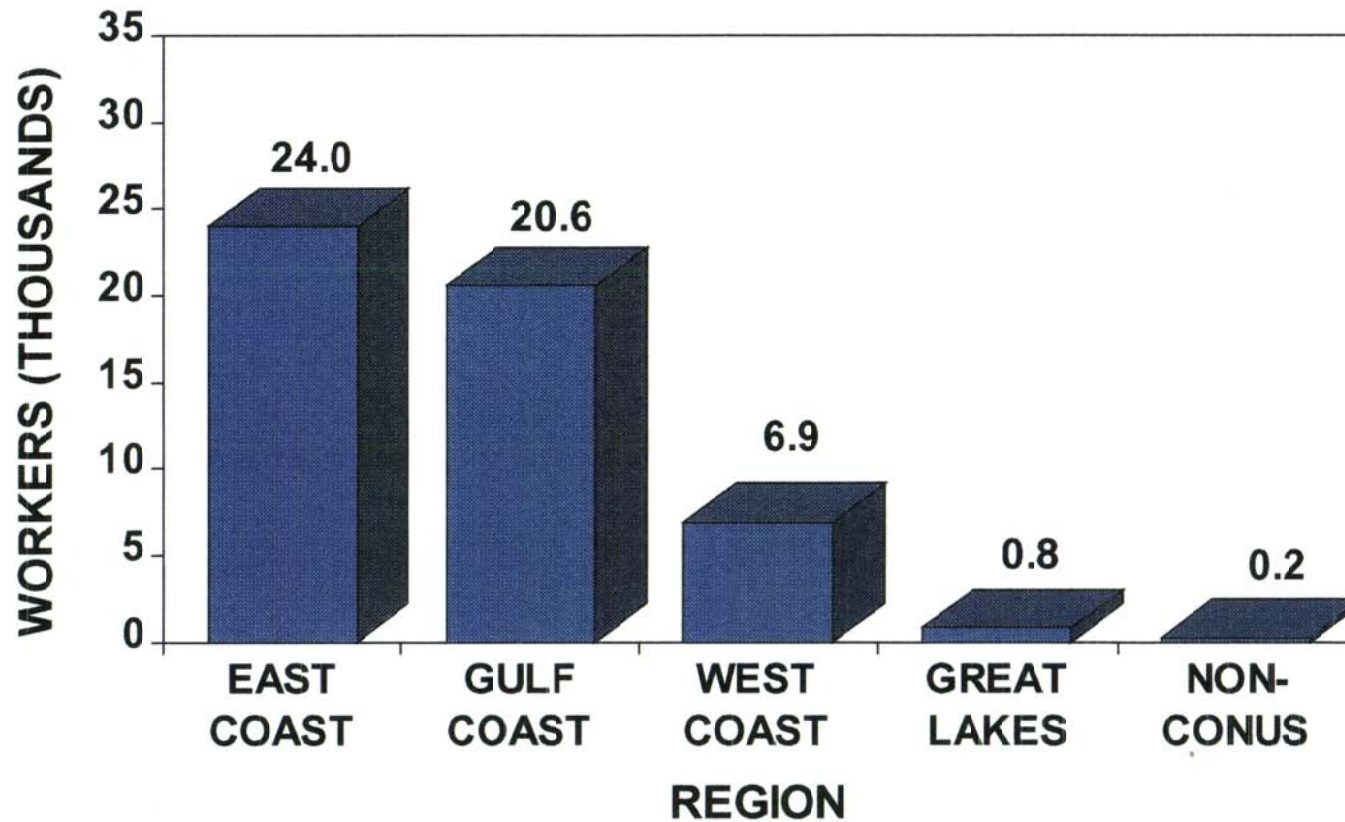
U.S. PRIVATE SHIPYARDS

OCTOBER 1982 VS. OCTOBER 1999



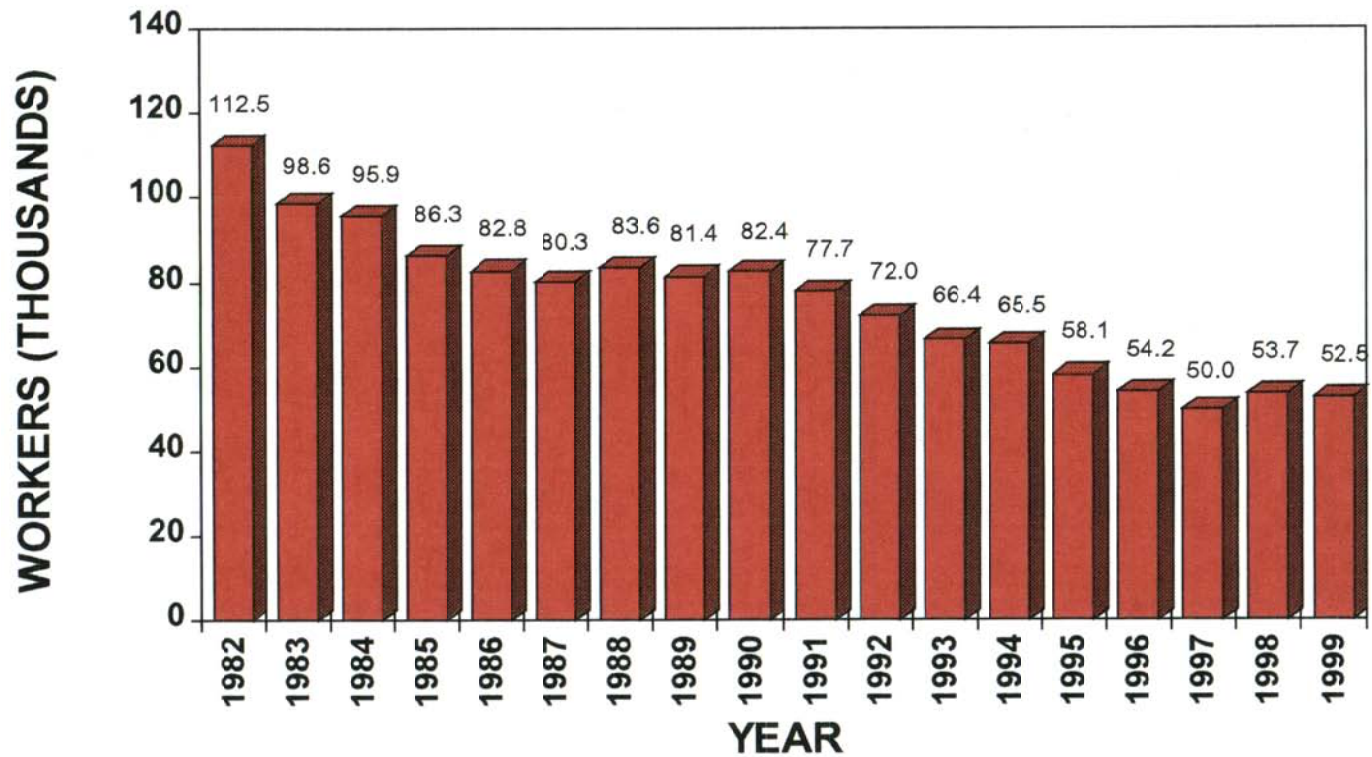
PRODUCTION WORKERS IN PRIVATE SHIPYARDS

MAJOR SHIPBUILDING AND REPAIR BASE - OCTOBER 1999



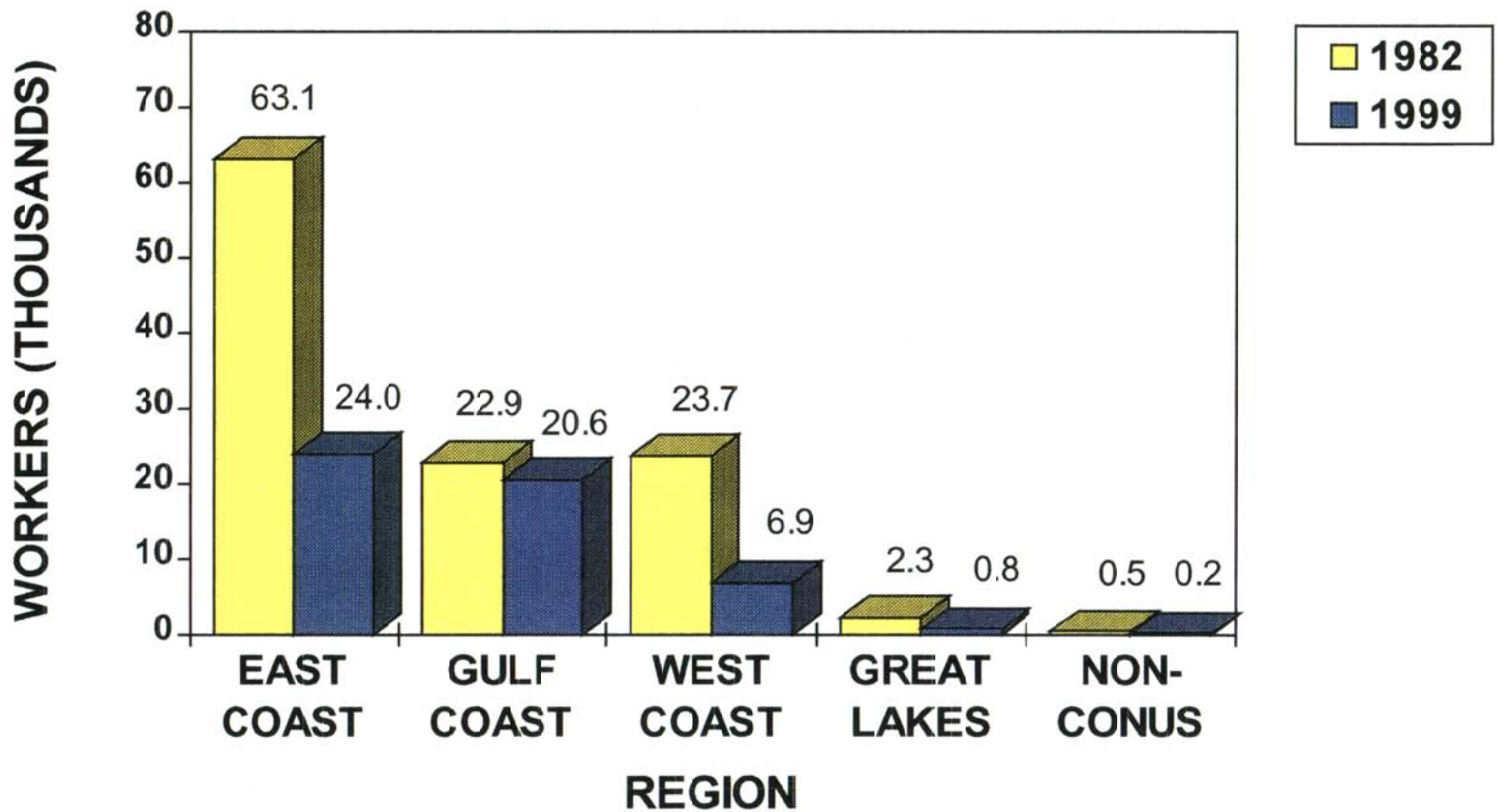
PRODUCTION WORKERS IN PRIVATE SHIPYARDS

MAJOR SHIPBUILDING AND REPAIR BASE: 1982 - 1999



PRODUCTION WORKERS IN PRIVATE SHIPYARDS

MAJOR SHIPBUILDING AND REPAIR BASE: 1982 vs. 1999



SHIPYARD CLASSIFICATION DEFINITIONS

CLASSIFICATION DEFINITIONS

- **Shipbuilding**: Facilities that are open, having at least one construction position capable of accommodating a ship 122 meters in length and over. With few exceptions, these shipbuilding facilities may also be major repair facilities with drydocking capability.
- **Repair (With Drydocking)**: Drydocking facilities for ships 122 meters in length and over. These facilities may also be capable of constructing vessels less than 122 meters in length.
- **Topside Repair**: Facilities with sufficient berth/pier space for topside repair of ships 122 meters in length and over. These facilities may also be capable of constructing and/or drydocking vessels less than 122 meters in length.

GENERAL REQUIREMENTS

The shipyard must own or have in place a long-term lease (1 year or more) on the facility in which they intend to accomplish the work.

There must be no dimensional obstructions in the waterway leading to open ocean (i.e., locks, bridges).

Water depth in the channel to the facility must be a minimum of 3.7 meters.

NOTE

The following criteria were developed to establish the maximum ship size that could be accommodated in each drydock:

For floating drydocks, the maximum ship length is as given by the shipyards. The maximum beam was determined by allowing a 0.6 meter clearance at each side between the ship and wing wall.

For graving docks, the maximum ship length was determined by allowing a 0.6 meter clearance at each end between the ship and the inside of the dock at the floor. The maximum beam was determined by allowing a 0.6 meter clearance on each side between the ship and each side of the dock entrance at the sill, unless the shipyard indicated more clearance is required.

There are several types of floating drydocks and graving docks, and under certain circumstances additional clearance would be necessary between the ship and the dock body. Permissible ship sizes requiring additional clearance may be determined by simple calculation from the above criteria.

MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)

EAST COAST

Shipbuilding Facilities (5)

Baltimore Marine Industries, Inc. - Baltimore, MD
Bath Iron Works Corporation - Bath, ME
Electric Boat Corporation - Groton, CT
Intermarine Savannah - Savannah, GA
Newport News Shipbuilding - Newport News, VA

Repair Facilities (With Drydocking) (13)

Atlantic Dry Dock Corporation - Jacksonville, FL
Bath Iron Works Corporation, Portland Facility - Portland, ME
Caddell Dry Dock & Repair Company, Inc. - Staten Island, NY
Colonna's Shipyard, Inc. - Norfolk, VA
Detyens Shipyard, Inc., Main Yard, - Charleston, SC
Detyens Shipyard, Inc., Wando Division, - Mt. Pleasant, SC
Eastern Technical Enterprises, Inc. - Brooklyn, NY
Economic Development & Industrial Corporation of Boston (EDIC) - Boston, MA
GMD Shipyard Corporation - Brooklyn, NY
Metro Machine Corporation - Norfolk, VA
Metro Machine of Pennsylvania, Inc. - Chester, PA
Norfolk Shipbuilding & Drydock Corporation, Berkeley, - Norfolk, VA
North Florida Shipyard, Inc. - Jacksonville, FL

Topside Repair Facilities (10)

American Shipyard Co., LLC - Newport, RI
Associated Naval Architects, Inc. - Portsmouth, VA
General Ship Repair Corporation - Baltimore, MD
Hood Enterprises, Inc. - Portsmouth, RI
Marine Hydraulics International, Inc. - Norfolk, VA

MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)
(Continued)

EAST COAST (Continued)

Topside Repair Facilities (10) (Continued)

Metal Trades, Inc. - Hollywood, SC
Moon Engineering Co., Inc. - Portsmouth, VA
Promet Marine Services Corporation - Providence, RI
Reynolds Shipyard Corporation - Staten Island, NY
Steel Style, Inc. - Newburgh, NY

East Coast Total = 28 Yards

MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)
(Continued)

GULF COAST

Shipbuilding Facilities (8)

Alabama Shipyard, Inc. - Mobile, AL
AMFELS, Inc. - Brownsville, TX
Avondale Industries, Inc., Shipyards Division - Avondale, LA
Halter Moss Point - Moss Point, MS
Halter Pascagoula - Pascagoula, MS
Ingalls Shipbuilding, Inc. - Pascagoula, MS
Newpark Shipbuilding, Galveston, - Galveston, TX
Tampa Bay Shipbuilding & Repair Co. - Tampa, FL

Repair Facilities (With Drydocking) (9)

Atlantic Marine, Inc., Mobile - Mobile, AL
Bender Shipbuilding & Repair Co., Inc. - Mobile, AL
Bludworth Bond Shipyard - Houston, TX
Gulf Marine Repair Corp. - Tampa, FL
Halter Gulf Repair - New Orleans, LA
Halter Port Bienville - Lakeshore, MS
International Ship Repair & Marine Service, Inc. - Tampa, FL
TDI-Halter, Dock Yard - Port Arthur, TX
TDI-Halter, Orange - Orange, TX

Topside Repair Facilities (22)

Avondale Industries, Inc., Algiers Division, - Avondale, LA
Bludworth Bond Shipyard, Texas City Yard - Houston, TX
Boland Marine & Manufacturing Co., Inc. - New Orleans, LA
Bollinger Algiers, LLC - New Orleans, LA
Bollinger Fourchon, LLC - Golden Meadow, LA

MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)
(Continued)

GULF COAST (Continued)

Topside Repair Facilities (22) (Continued)

Bollinger Lockport, LLC - Lockport, LA
Buck Kreihs Company, Inc. - New Orleans, LA
Calcasieu Shipyard - Sulphur, LA
CBH Services, Inc. - Orange, TX
Dixie Machine Welding & Metal Works, Inc. - New Orleans, LA
Gulf Copper and Manufacturing Corporation - Port Arthur, TX
Halter Marine Equitable - New Orleans, LA
Hendry Corporation - Tampa, FL
Houston Ship Repair, Inc., Brady Island Ship Repair Facility - Houston, TX
Jay Bludworth, Inc. - Corpus Christi, TX
Newpark Shipbuilding & Repair, Inc., Brady Island - Houston, TX
Newpark Shipbuilding & Repair, Inc., Pasadena - Pasadena, TX
Newpark Shipbuilding & Repair, Inc., Pelican Island - Galveston, TX
Orange Shipbuilding Co., Inc. - Orange, TX
Sabine Offshore Services, Inc. - Sabine Pass, TX
TDI-Halter, North - Port Arthur, TX
United Marine Enterprises, Inc., Port Arthur Shipyard - Beaumont, TX

Gulf Coast Total = 39 Yards

MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)
(Continued)

WEST COAST

Shipbuilding Facilities (3)

Gunderson, Inc. - Portland, OR
National Steel & Shipbuilding Co. - San Diego, CA
Todd Pacific Shipyards Corp. - Seattle, WA

Repair Facilities (With Drydocking) (8)

Bellingham Bay Shipyard, LLC - Bellingham, WA
Cascade General, Inc. - Portland, OR
Dakota Creek Industries, Inc. - Anacortes, WA
Lake Union Drydock Co. - Seattle, WA
MAR COM, Inc. - Portland, OR
San Francisco Drydock, Inc. - San Francisco, CA
Southwest Marine, Inc., San Diego Division - San Diego, CA
Southwest Marine, Inc., San Pedro Division - Terminal Island, CA

Topside Repair Facilities (7)

Bay Ship & Yacht Co., Alameda - Alameda, CA
Bay Ship & Yacht Co., Richmond - Richmond, CA
Campbell Shipyard - San Diego, CA
Continental Maritime of San Diego, Inc. - San Diego, CA
Foss Shipyard - Seattle, WA
Pacific Fisherman, Inc. - Seattle, WA
San Pedro Boat Works - San Pedro, CA

West Coast Total = 18 Yards

MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)
(Continued)

GREAT LAKES

Shipbuilding Facilities (4)

Bay Shipbuilding Co. - Sturgeon Bay, WI
Fraser Shipyards, Inc. - Superior, WI
Marinette Marine Corporation - Marinette, WI
Metro Machine of Pennsylvania, Industrial Products Division - Erie, PA

Repair Facilities (With Drydocking) (1)

Toledo Ship Repair Co., Toledo Shipyard - Toledo, OH

Topside Repair Facilities (2)

H. Hansen Industries - Toledo, OH
Nicholson Terminal & Dock Company - River Rouge, MI

Great Lakes Total = 7 Yards

MAJOR U.S. PRIVATE SHIPBUILDING & REPAIR FACILITIES (95)

(Continued)

NON-CONUS

Shipbuilding Facilities (0)

None

Repair Facilities (With Drydocking) (2)

Alaska Ship & Drydock, Inc. - Ketchikan, AK
Marisco, Ltd. - Honolulu, HI

Topside Repair Facilities (1)

Honolulu Shipyards, Inc. - Honolulu, HI

Non-Conus Total = 3 Yards

