Industry Survey Report Series Deck Barges 2002

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For

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U.S. Maritime Administration
(www.marad.dot.gov/marad_statistics)

January 2003

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Introduction and Methodology

The U.S. Maritime Administration (MARAD) has undertaken a new program of attitudinal research, surveying the major carriers in marine transportation segments. The surveys focus on fleet characteristics and the respondents' attitudes and perceptions of the markets in which they operate.

MARAD's objective is to better understand the industry and the market challenges facing operators. The survey results are expected to demonstrate the utility of obtaining regular structured information from the industry on key issues. If performed on a regular basis, these surveys can track important industry attitudes and facilitate the sharing of important information that cannot be obtained from hard data.

Included in the pilot program were surveys of the inland and coastal deck barge segments. The top ten companies in each segment were targeted, with rankings based on fleet capacity derived from U.S. Army Corps of Engineers fleet files. Targeted companies unable to participate were replaced by the next company in order until a total of ten companies were represented in each segment.

This report describes the aggregated results of the two surveys. Separate surveys were initially drafted for each segment. However, it was later decided to use a single survey instrument because most of the deck barge companies operate in both inland and coastal service.

Answers to questions requiring a percentage as a response were weighted based on fleet capacity. Several questions allow for multiple responses, and the tabulation of those responses add to more than 100 percent of the respondents. The survey instrument is included as Appendix 1.

The survey work was begun in September 2002 and completed in mid-December. The surveys were conducted by Market Scope, Inc. using trained interviewers from Old Dominion University Graduate School of Business and Public Administration. All work was coordinated by MARAD's Office of Statistical and Economic Analysis, with direct staff participation.

MARAD is grateful to the respondents for their assistance.

Respondent Characteristics

The operators surveyed in the two segments accounted for 43 percent of the total US deck barge fleet.

Eighty percent of the respondents operate to some extent on the US Gulf Coast (Figure 1).

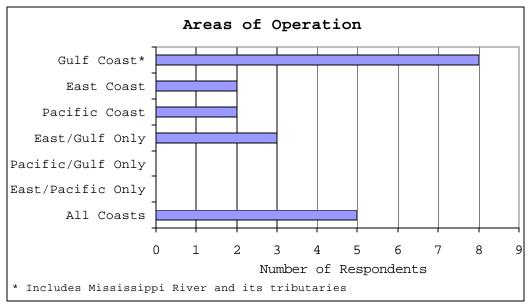


Figure 1

Thirty-eight percent of the respondents' deck barge fleet are inland barges. Thirteen percent of the barges owned by those surveyed are spud barges. The distribution by length is shown below.

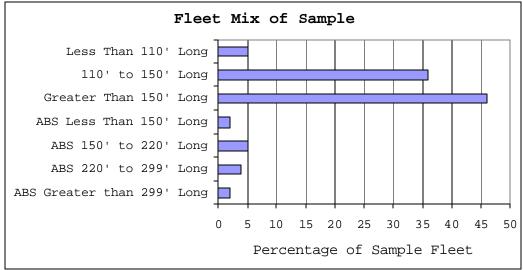


Figure 2

Respondents were asked to indicate the portion of their deck barge revenues derived from each of four applications: construction and dredging/bridge projects, carriage of bulk materials, carriage of manufactured products, and oil field service. The distribution of responses is shown below.

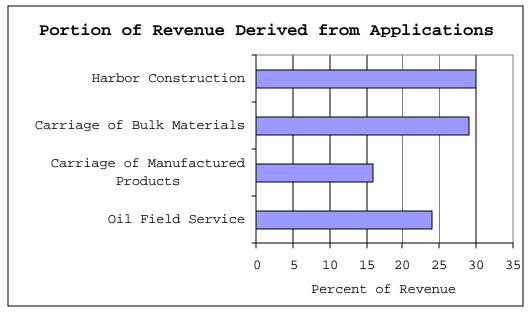


Figure 3

Fifty-six percent of the respondents' revenues are derived from transportation services, while 44 percent are derived from charter or "for hire" services. A breakdown of charters by length of term is shown below.

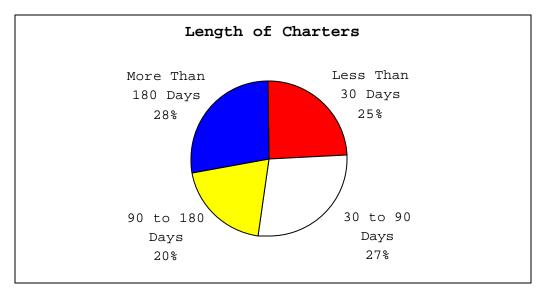


Figure 4

Respondent Attitudes and Perceptions

Respondents were asked to indicate the movement of effective rates (charter rate x utilization) for various size categories, over the last three years. The majority of the respondents (65-90 percent depending upon the size category) experienced stable effective rates during the period (Table 1).

Twenty-five percent of the respondents indicated an increase in rates for inland barges greater than 150' long. Twenty percent of the respondents indicated a decrease in rates for ABS (coastal) deck barges in the 150'-299' long categories.

Three-Year Effective	Rate Histor	ry By Barge	Size
Length of Barge	Increase	Decrease	Same
Inland			
Less Than 110' Long	2	0	18
110' to 150' Long	4	2	14
Greater Than 150' Long	5	0	15
ABS Classed			
Less Than 150' Long	1	3	16
150' to 220' Long	2	4	14
220' to 299' Long	3	4	13
Greater Than 299' Long	2	0	18

Table 1

Respondents most often chose "180 to 270 days" as the expected utilization for their deck barges in a normal year. For larger inland barges 45 percent of respondents expect more than 270 days utilization (Table 2).

Expected Days Utilization in a Normal Year					
Length of Barge		Less Than 180 180 Days 270			
Inland					
Less Than 110' Long	6	2	3	1	
110' to 150' Long	13	1	6	6	
Greater Than 150' Long	16	2	7	7	
ABS Classed					
Less Than 150' Long	6	1	3	2	
150' to 220' Long	7	1	5	1	
220' to 299' Long	9	4	2	3	
Greater Than 299' Long	5	1	3	1	
*Number of respondents indicating	g ownershi	p of barges in thi	ls category		

Table 2

Eighty percent of the respondents anticipate ordering new barges over the next three years.

Respondents who plan to order new barges were asked how the new barges would differ from their existing fleet and how they determine the characteristics/features that their customers want in new barges. The most frequent responses were that the new barges will be larger and have reinforced decks. Feedback through sales calls was the means most often cited for determining customer requirements (Figure 5).

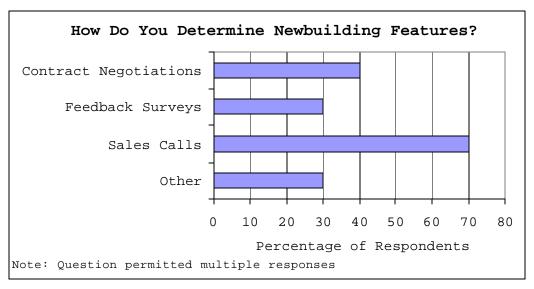


Figure 5

The respondents were asked to identify important regulatory issues facing deck barge operators. While there were a large number of issues identified, the Jones Act and environmental regulations were the only issues raised by more than 10 percent of the respondents.

On a scale of 1(poor) to 5(excellent), the respondents, as a group, rated US shipyards below 3 on price and slightly above 3 on quality and meeting delivery schedules (Figure 6).

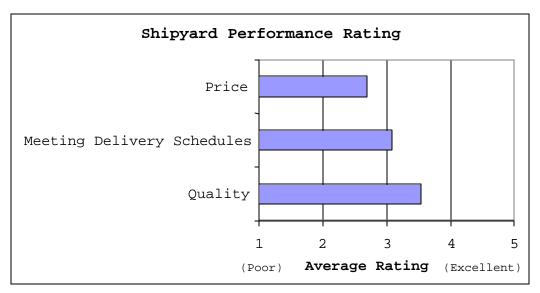


Figure 6

Respondents were asked to indicate how they determine customer satisfaction. Seventy-five percent of the respondents stated that they rely on sales calls as the principle means by which they determine customer satisfaction (Figure 7).

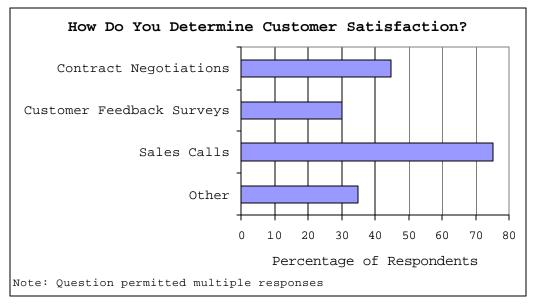


Figure 7

To estimate market growth, 90 percent of respondents use empirical data, while 40 percent use customer surveys (Figure 8).

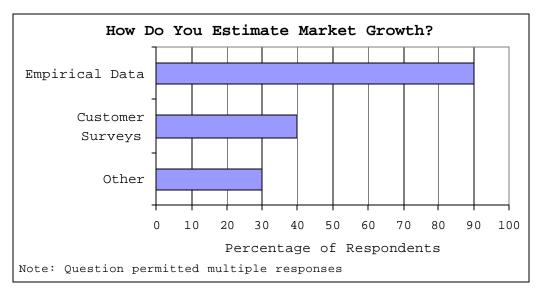


Figure 8

However, on a scale of 1(poor) to 5(excellent), 50 percent of respondents rated the quality and availability of existing general market indicators as poor or slightly better than poor.

Forty-five percent of the respondents expressed interest in participating in a forum for developing and improving market indicators, specifically for the deck barge segment of the industry. However, some additional respondents indicated a desire for more information about the concept.

Appendix

Deck Barge Survey

1.) In which of the following water do you operate deck barges as apply	
East Coast	yes [] no []
Gulf Coast including the Mississipp: River and its tributaries	i yes [] no []
Pacific Coast	yes [] no []
2.) About what percent of your deck of the following categories? I the answers in percents, please in "0" or "5", such as 20%, 25%	In this survey, for all e use percents that end
Inland Less than 110'long	
Inland 110' to 150' long	
Inland Greater than 150' long	
ABS Classed Less than 150' long	
ABS Classed 150' to 220' long	
ABS Classed 220' to 299' long	
ABS Greater than 299' long	
3.) Approximately what percent of y total deck barge fleet is Spud	
4.) For 2001, approximately what per barge revenues were from the for	<u>-</u>
a. Harbor construction, dredo bridge projects	ging and
b. Carriage of bulk material	.s
c. Carriage of manufactured (including containers, re- vessels and overdimensions	finery
d. Oil field service	

5.)	For 2001, about what revenues were derive	_	your deck b	arge
	a) transportation	services		
	b) charter or "fo	or hire" ser	rvices	
6.)	Currently, about what the following terms	_	f your chart	ers are for
	a) Less than 30 da	ays		
	b) 30 to 90 days			
	c) 90 to 180 days			
	d) Greater than 1	80 days		
7.)	Generally, over the rate for the follow decreased or remain	ing size cat	egories incr	
Inla	.nd			
Less	than 110'long			
110′	to 150' long			
Grea	ter than 150' long			
ABS	Classed			
Less	than 150' long			
150′	to 220' long			
220′	to 299' long			
Grea	ter than 299' long			

	s less than	ng to read to 180 to 270 da	
		180 to 270 days	
Inland			
Less than 110'	long	 	
110' to 150' lo	ong	 	
Greater than 15	50' long	 	
ABS Classed			
Less than 150'	long	 	
150' to 220' lo	ong	 	
220' to 299' lo	ong	 	
Greater than 29	99' long	 	
9.) What are to deck barge	the most imp e operators?	rulatory issue	s facing
			
10.) Do you and three year			he next
		es [] o []	

8.) We would like to know how many days utilization you expect for your deck barges in a normal year. For

11.)	How will the barges in you changes in di	ır fleet?	For ex	ample do	you exp	
12.)	On a scale of excellent, he your needs in	w do you	rate U.	_		_
		poor				excellent
		1	2	3	4	5
Pric	e					
	ing delivery dules					
Qual	ity					
13.)	How do you de service?Is			satisfac	ction wi	th your
					Yes	No
Cont	ract negotiat	ions				
Cust	omer feedback	surveys				
Sale	s calls					
Othe:	r (specify) _					

your customers want in your newbuild from		
	Yes	No
Contract negotiations		
Customer feedback surveys		
Sales calls		
Other (specify)		
15.) How do you estimate the growth of you use	our marke	t? Do you
	Use	Do not use
Empirical data such as industry trends and company sales		
Customer surveys		
Other (specify)		
16.) On a scale of 1 to 5, 1 being poor a excellent, how would you rate availated of general market indicators such as and fleet statistics?	ability a	nd quality
17.) Would you be interested in participation for developing market information, wimproving market indicators for the industry?	with the	goal of
		Yes [] No []