

ASA EQUIPMENT VALUATION CONFERENCE

Maritime Asset Appraisal

Harry Ward DLS Marine

(aka Dufour, Laskay & Strouse)



Defining the maritime industry

Commercial Vessels and Facilities

- Primarily US-focused marine transport companies
 - River transportation of goods
 - Coastal and international transport
 - Offshore energy support
 - Passenger vessels
- US-based marine service facilities
 - Coastal and river repair yards
 - Non-military shipbuilding yards
 - Commercial Terminals
- Key concepts
 - US vs. foreign flag vessels
 - The "Jones Act"
 - "Blue Water" vs "Brown Water" vessels
 - Commercial vs pleasure craft



MARINE APPRAISAL SERVICES

LARGEST CONCENTRATION OF ASA MARINE APPRAISERS IN THE INDUSTRY

With over 50 years of experience, DLS leads the industry in the appraisal of marine vessels and equipment and has the largest concentration of NAMS-CMS surveyors and American Society of Appraisers (ASA) Senior Commercial Marine Appraisers.

Valuations follow the rigorous guidelines of both the ASA and the Uniform Standards of Professional Appraisal Practice (USPAP). Clients include small vessel operators and large financial instituions.

TOP FINANCIAI











FAIR MARKET VALUE

- Detailed description
- General condition
 Estimated value of a vessel and/or other marine equipment
- Estimation in today's market or prospective / retrospective appraisals covering future or past values

CONDITION & VALUATION

- Provided for insurance
- Detailed description
- General condition
- Recommendations for saf operation
- Navigation limits
- Estimated Fair Market Value and Replacement Cost of a vessel and/or equipment in today's market

LIQUIDATION

- Includes estimation for Orderly Liquidation (OLV) and Forced Liquidation (FLV)
- Routine monitoring of marine asset liquidations







WWW.DLSMARINE.COM | 504-835-8505 | INFO@DLSMARINE.COM



River and coastal marine transport

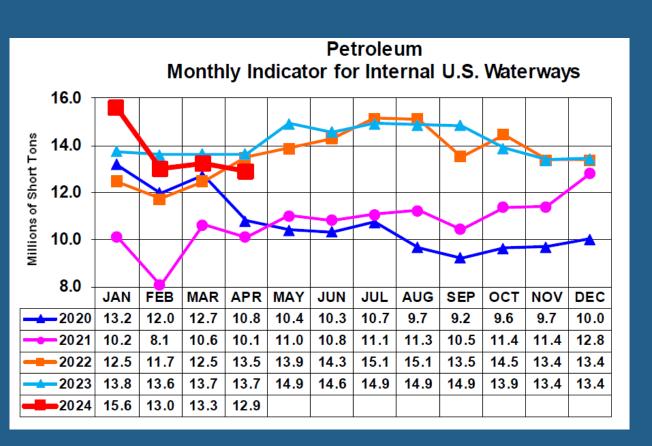
More than 25,000 navigable miles in the US

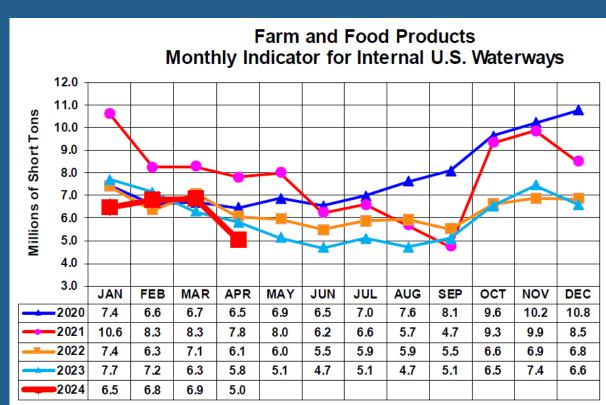
- Mississippi River and tributaries
 - 60% of U.S. grain shipments, 22% of oil and gas shipments, and 20% of coal
 - More than 10,000 navigable miles
 - US Army Corps of Engineers provides maintenance
- Intracoastal Waterways
 - Along the Gulf and East Coast
 - Protected coastal transport
 - "Brown water" rules
- Primarily Jones Act trade
 - Trade between US "points"
 - US built, owned and crewed
 - MUCH more expensive than foreign vessels and crews





USACE Commodity Indicators







Inland River vessels

Boats and barges suited to US brown waters

- Towboat/barge system
 - Powerful boat pushes barge "tows"
 - Can operate on shallow routes
 - Built for lock system
- Products carried
 - Dry bulk grain
 - Refined petroleum, chemicals, fertilizer
 - Aggregates and other building supplies
 - Coal



Boat and barges in river lock



Towboat with dry "hopper" barges



Towboat with tank barges



Coastal transport and offshore service vessels

Ocean-going, close to home

- Articulated Tug and Barge (ATB)
 - Two units, similar to a ship
 - "Pin" system connects tug and barge
 - Adaptation to US vessel rules
 - Can go anywhere, but mostly US
 - Carry liquid and dry bulk cargo between remote coastal ports
- Offshore Service Vessel (OSV)
 - 200' 400' workboats
 - Utility boats of offshore oil industry
 - Carry equipment, supplies, people and specialized drilling chemicals to/from rigs
 - Similar vessel serving offshore wind



ATB with liquid tank barge



OSV servicing an offshore oil rig



Other Vessel Types

Other markets/customers of DLS

- US Blue water ships
 - About 100 Jones Act ships
 - Another 80+ US-flag ships
 - Quasi-military vessels, MSC and MARAD
- Harbor and Escort Tugs
 - Push and pull big vessels in confined ports
 - From small tugs to 6000 HP "escort" tugs
 - Can tow and move barges
- Passenger and Cruise Vessels
 - Jones Act river and coastal cruise industry
 - Ferries passenger and car
- Dredging Vessels
 - Keep navigation channels open
 - Restore beaches and other features
 - Deepen harbors for larger ships











Drill Rigs

Coastal and Offshore

- Coastal Drill Barges
 - Operate in Shallow Waters
 - Fewer regulations
 - Submersible
 - Drill 7depths up to 35,000 ft

- Offshore Oil Rigs
 - Multiple Types
 - Jackup
 - Semi-submersible
 - Spar
 - Fixed
 - Wide Range of Water and Drill Depths





Offshore Wind Support

Slowly-Developing Segment

- Offshore Wind in US
 - Tax credits
 - Dozens of planned farms
 - Still just 8 OSW turbines in USA!
 - CVOW and Vineyard Wind getting started
- Support Vessels
 - WTIV installation vessel
 - SOV Service Operations Vessel
 - CTV Crew Transfer Vessel
 - Many other small, niche vessels







Approaches to Value

Cost Approach

Basic Method

- Replacement costs shipyards
- Scrap or residual
- Normal Economic Life (NEL)
- Obsolescence

Challenges

- New build prices not public
- Non-standard vessels
- Vessels beyond NEL
- Calculating EO/FO

Sales Comparison Approach

Basic Method

- Identify similar sales
- Research sales offerings
- Adjust for features/condition
- Regression if possible

Challenges

- Little public information
- Adjusting for non-standard features
- Condition varies widely

Income Approach

Basic Method

- Vessel-specific revenue
- Vessel-specific costs
- Appropriate discount rate
- NPV

Challenges

- Most operators don't allocate to each vessel
- Allocating indirect costs
- Developing discount rate
- Integrating scrap/residual



Cost Approach

Inputs, NEL's and EO

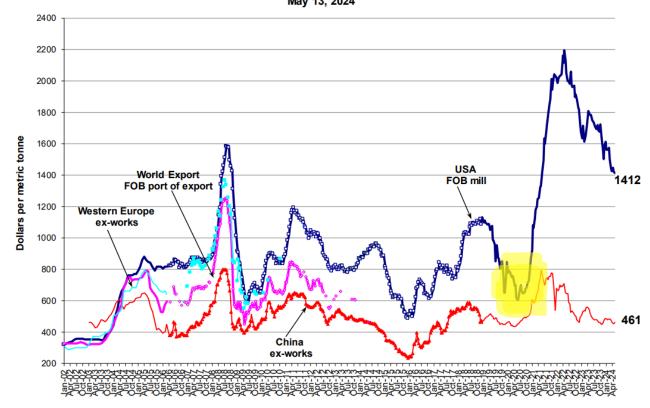
- Replacement Costs
 - Steel prices a very important factor
 - Labor and energy
- Scrap/Residual Values
 - Information from scrappers
 - Overseas vs. US scrap
 - Residual based on alternative uses
- Normal Economic Life
 - Table developed over many years
 - Salt water vs. fresh
 - Research by industry publishers, large operators
- Obsolescence
 - Economic downturns, eg COVID
 - Functional new tech, designs

SteelBenchmarkerTM Plate Price

USA, China, Western Europe and World Export

(WSD's PriceTrack data, Jan. 2002 - March 2006; SteelBenchmarker data begins April 2006)



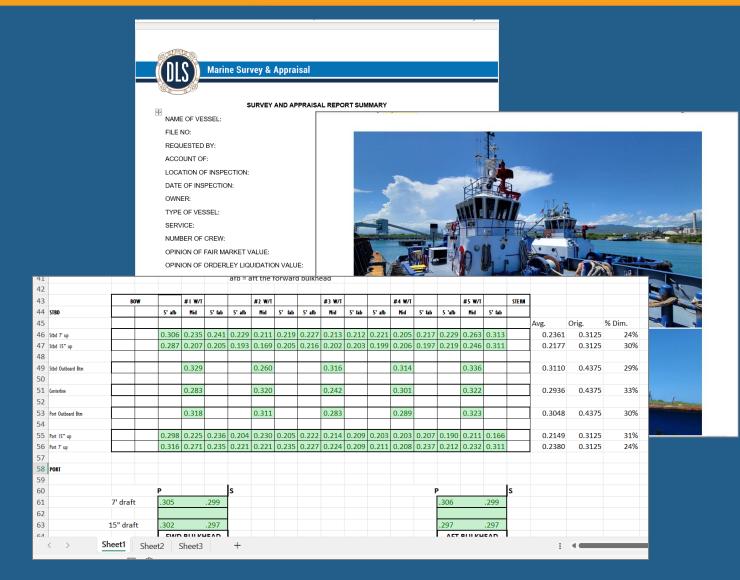




Sales Comparison Approach

Very Little Public Information

- Few Individual Vessel Sales
 - Tend to be in fleets/subsets
 - Between private companies
 - Older vessels often outside US
- Adjustments By Features
 - Utility
 - Tugs Horsepower
 - Cargo Capacity (TEU's, cubic yards, etc)
 - Cruise Number of passengers, amenities
- Adjustments by Condition
 - Need "survey" reports
 - Steel gauging reports





Income Approach

Thank You!



Questions?
Harry Ward, President

hward@dlsmarine.com