Dry Bulk Cheat Sheet

by wunir via cheatography.com/68927/cs/17363/

Bulk

Bulk commodity vs bulk cargo

Four main characteristics of bulk commodities which influence their sustainability for transport in bulk:
- Volume
- Handling and stowage
- Cargo value
- Regularity of flow

Factors in the bulk market

Commodity supply industries

Steel production

Growing infrastructure development in developing countries

Urbanization

Used to be Europe, USA and Japan, now BRIC [Brasil, Russia, India, China]

Overcapacity in the fleet + large orderbook

Efficiency

Price and volume

Reefers

Refrigerator ships

Temperature controlled transportation

Usually food

Competition from containers

Ships

Capesize bulk carrier	> 100.000 dwt, Coal and ore, ULOC, VLOC
Panamax bulk carrier	60.000-100.000 dwt, Coal, crude oil and petroleum, Latin-America
Handymax bulk carrier	40.000-60.000 dwt, Small and large ports, often 4 cranes
Handysize bulk carrier	10.000-40.000 dwt, the smallest bulk carriers, often 4 cranes
OBO carrier	Oil/Bulk/Ore, Dry and wet bulk, Cleaning is demanding, expensive to build, not built any more

History

1850: The first bulk ships built

1900: The first diesel fueled ships with integrated loading and unloading equipment

1958: Thorvald Klaveness built the worlds first special made bulk carrier, Carried fertilizer from Norway

1961: Klaveness was the first in the world to carry cement

Industrial revolution

From short-sea to deep-sea

Increased trade between the industrialized countries

Increased energy need, increased production

Larger and quicker ships

Specialisedbulk carrieres

Dry bulk

Major bulk:
- Iron ore•Coal
- Grain
- Phosphate rocks
- Bauxite and alumina

Minor bulk:
- Forest products
- Sugar
- Agribulk

Future trends

Surplus in the market

China’s growth? Stagnation?

Other BRIC countries

International bulk fleet

Baltic dry index

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Ship types

- Bulk-carriers
- Ore-carriers
- OBO / Combination Carriers

Iron ore

- 20% of the dry bulk
- Measured in tons
- Steel
- Mining
- Very dusty

Coal

- Electricity production
- Fuel for heating
- Mining
- Environmentally questionable

Corn

- Food production
- Rice, corn, oatmeal, wheat
- Demanding transportation–high risk
- Ventilation and protection from bad weather and bugs

Phosphate

- Fertilizer
- Dusty and absorbs moisture

Bauxite

- Production of aluminum
- Indonesia –50% of the export
- Kina –70% of import
- Hydro
- Uncertain trade in the future due to Indonesian stop in export

Minor bulk

- Represents the rest of the dry bulk industry
- Sugar, minerals, forest products

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