

Dry Bulk Cheat Sheet by wunir via cheatography.com/68927/cs/17363/

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

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

Refrigerator ships

Temperature controlled transportation

Usually food

Competition from containers

Capesize bulk

> 100.000 dwt, Coal and ore,

carrier

ULOC, VLOC

Panamax bulk

60.000-100.000 dwt, Coal, crude oil and petroleum, Latin-America

carrier

Handymax

40.000-60.000 dwt, Small and

bulk carrier large ports, often 4 cranes

Handysize bulk

10.000-40.000 dwt, the smallest bulk carriers, often 4 cranes

carrier ОВО

carrier

Oil/Bulk/Ore, Dry and wet bulk, Cleaning is demanding, expensive

to build, not built any more

By wunir

cheatography.com/wunir/

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

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

Ship types

Bulk-carriers

Ore-carriers

OBO / Combination Carriers

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

Represents the rest of the dry bulk industry

Sugar, minerals, forest products

Published 7th October, 2018. Last updated 7th October, 2018.

Page 1 of 1.

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