

Water Transport Services

ABS approach to the Producer Price Index for Water Transport Services





1. Service being Priced

- ANZSIC 93 division 63
 - -ISIC4.0 division 50
 - -CPC2.0 division 72
- Water Transport Service
 - -Excluding:
 - Ocean cruise service (between domestic and foreign ports, between domestic ports)
 - Passenger transport service (international sea transport, coastal sea transport, river, harbour or lake)
 - Boat charter, lease or rental (with crew; for any period; for coastal water transport)
 - Ship charter, lease or rental (with crew; for any period; for coastal sea transport)



1. Service being Priced (continued)

- Ship management service or international sea transport, and coastal sea transport (i.e. operation of ships on behalf of owners)
- Cruise operation (river, harbour or lake; with or without restaurant facilities)
- Freight transport services (river, harbour or lake)
- Passenger ferry operation (river, harbour or lake)
- Water taxi service (river, harbour or lake)
- Excluded due to limited volume of such activities within the Australian Economy



1. Service being Priced (continued)

- Measures (quarterly) prices of Water Transport Services received by producers
 - -Business to business
- Similar actions are measured elsewhere:
 - -Freight-forwarding
 - Logistics (supply chain solutions)
- ABS is only concerned with pricing Water Transport Services
- Measures the transport by water of commodities on behalf of the buyer/ owner or seller.



2. Pricing Unit of Measure

- No standard pricing mechanism
- Service defined by:
 - -Origin and destination
 - Vessel transporting goods
 - Commodity being transported
 - And volume
 - Customer type
- Recent changes include seperate collection of fuel surcharge price



3. Market Conditions and Obligations

- Water Transport Services \$4.8 billion AUD
- Gradual move to intergrated solutions
 - Freight-forwarders/ Logistics
 - Road
 - Rail
 - Air
 - Warehousing
 - Stock control



3. Market Conditions and Obligations (continued)

- Levels of operation
 - -Australian vessels in Australian coastal waters
 - -Australian vessels in international waters
 - -Foreign owned vessels in Australian coastal waters
 - -Foreign owned vessels in international waters
- Australian shipping fleet = 96 vessels
- Australian Navigation Act is a disadvantage to Australian operators

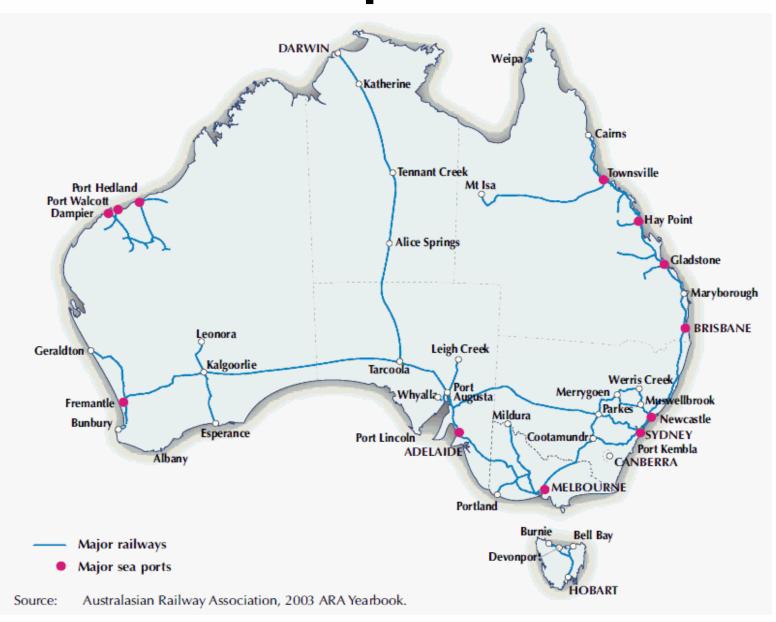


3. Market Conditions and Obligations (continued)

- Overseas vessels need to apply for permits to undertake water transport within Australian coastal waters:
 - -Single Voyage Permits (SVPs)
- Continuing Voyage Permits (CVPs)
- Fuel surcharge offset by increased competition
 - -Margins tightening
- Australia's geography and population distribution
 - -Large area
 - Low population density both sparse and bunched
- Australia is an island with little inland shipping



Australian major railways and sea ports





3. Market Conditions and Obligations (continued)

- Record keeping practices
 - -No one rule covers everything
 - Detailed records for commodities transported
 - The commodity determines if additional requirements or restrictions are needed
 - e.g. petroleum, grain, livestock
- Priced by:
 - distance covered
 - -weight
 - type of commodity
- Recent innovations:
 - Smaller vessels being replaced with larger holding capacity vessels



4. Standard Classification Structure

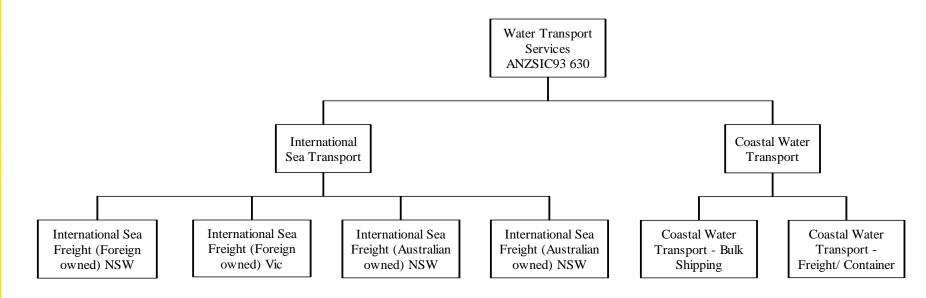
Current structure ANZSIC 93

 ANZSIC 93 6301 International Sea Transport and 6302 Coastal Water Transport are the lowest levels of the Australian industrial classification

 Index structure currently reflects type of water vessel is conducting business, and if vessel is Australian or foreign owned



Figure 1 Current Structure of the Price Index of Water Transport Services



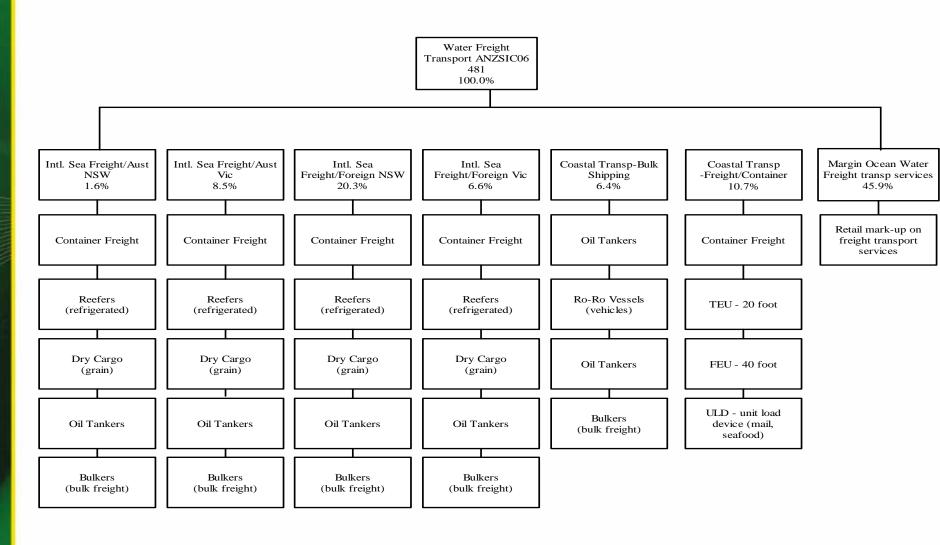


4. Standard Classification Structure (continued)

- New structure ANZSIC 06 implemented from September 2009
- Water Transport 630 will change to Water Freight Transport 481
- Transport and Storage Services Index (Division I) will change to 'Selected Output of Transport, Postal and Warehousing Index'



Figure 2 Proposed New Structure of the Price Index of Water Freight Transport Services





4. Standard Classification Structure (continued)

- Benefits of the new structure:
 - -Transformability within broad headings
 - More homogenous in terms of price level, price behaviour, and item placement
 - -Higher grade of detail
 - Index level of detail accommodates future emerging markets
 - More flexibility
- Improvements:
 - -Imputation
 - Output Editing Notes



5. National accounts concepts and measurement issues

- Adopts "output indicator" method
 - -Begin with measure of current price gross value
 - -Extrapolate via output indicator
- Same classification adopted
- Value added approach produces chain volume measure for ANZSIC 6301 and 6302
- Output indicator is changes in income from sales of goods and services from Quarterly Business Indicator Survey (QBIS)
- Sales income deflated by PPI for water transport



6. Pricing Methods and Criteria

- Specification pricing
 - -Type of commodity transported
 - Origin and destination
 - -Type of customer
 - Conditions of sale (of service)
 - Tailored by commodity and/ or business
 - Exclude "non-water freight" components (bundling)
- Pricing methods:
 - Specification pricing
 - Contract pricing



6. Pricing Methods and Criteria (continued)

- Price
 - -Transaction price (price received) within the Australian marketplace
 - Not list price
- Price to constant quality each quarter
 - -Specifications tailored to each Respondent
 - -Measure price each quarter, bi-annual and annual
- On a reporting basis, if required:
 - Determine variations in specifications from period to period
 - -Determine reasons for price change



6. Pricing Methods and Criteria (continued)

- Representativeness:
 - -Sample Reviews
 - -Sample Maintenance
- Need to ensure cooperation of respondents
 - Tailored forms
 - Personal interviews at enrolment





7. Quality Adjustment Methodologies

- Vital in compilation, to ensure that each specification in the price basket is priced to constant quality over time.
- Overlap pricing method of quality adjustments is used in most instances
 - Essential to determine true market price for changed service in the previous period



8. Evaluation of Comparability with Turnover/ Output Measures

- National accounts use QBIS data
 - -Gross value at current prices
 - Output indicator (sales of goods and services)
- Classification of Type of Activity Unit (TAU) potential issue
 - Bundling of water transport, freight-forwarding, logistics



9. Summary

 ABS currently compiles a quarterly producer price index of Water Transport Services.

 The scope of the index is determined by the ANZSIC 93 classes 6301 International Sea Transport and 6302 Coastal Water Transport.



9. Summary (continued)

- Industry practice shows that providers of Water Transport Services have increasingly diverse business structures
 - Some establishments have developed the ability to substitute between water transport and other method of transport (freight-forwarding)
- The ABS will be implementing ANZSIC 06 into its current structure, from September 2009.