

Construction of the BC Barge and Tug Fleet

A BRIEF HISTORY

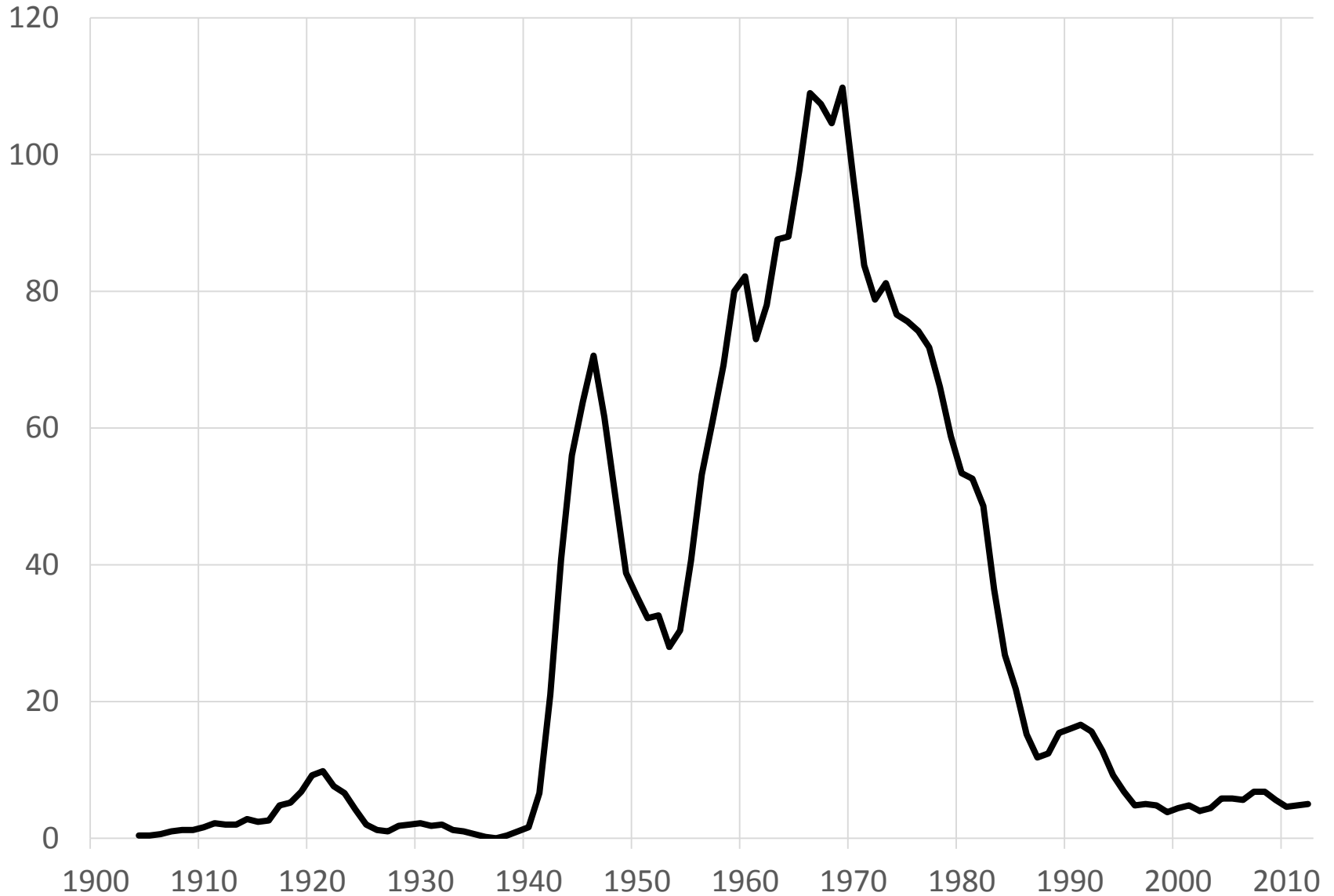
PRESENTED BY: MALCOLM McLAREN

ALLIED SHIPBUILDERS (RETIRED)

Overview of the BC Shipbuilding Industry 1900 to Present



Total Number of Steel Vessels Built Per Year in British Columbia

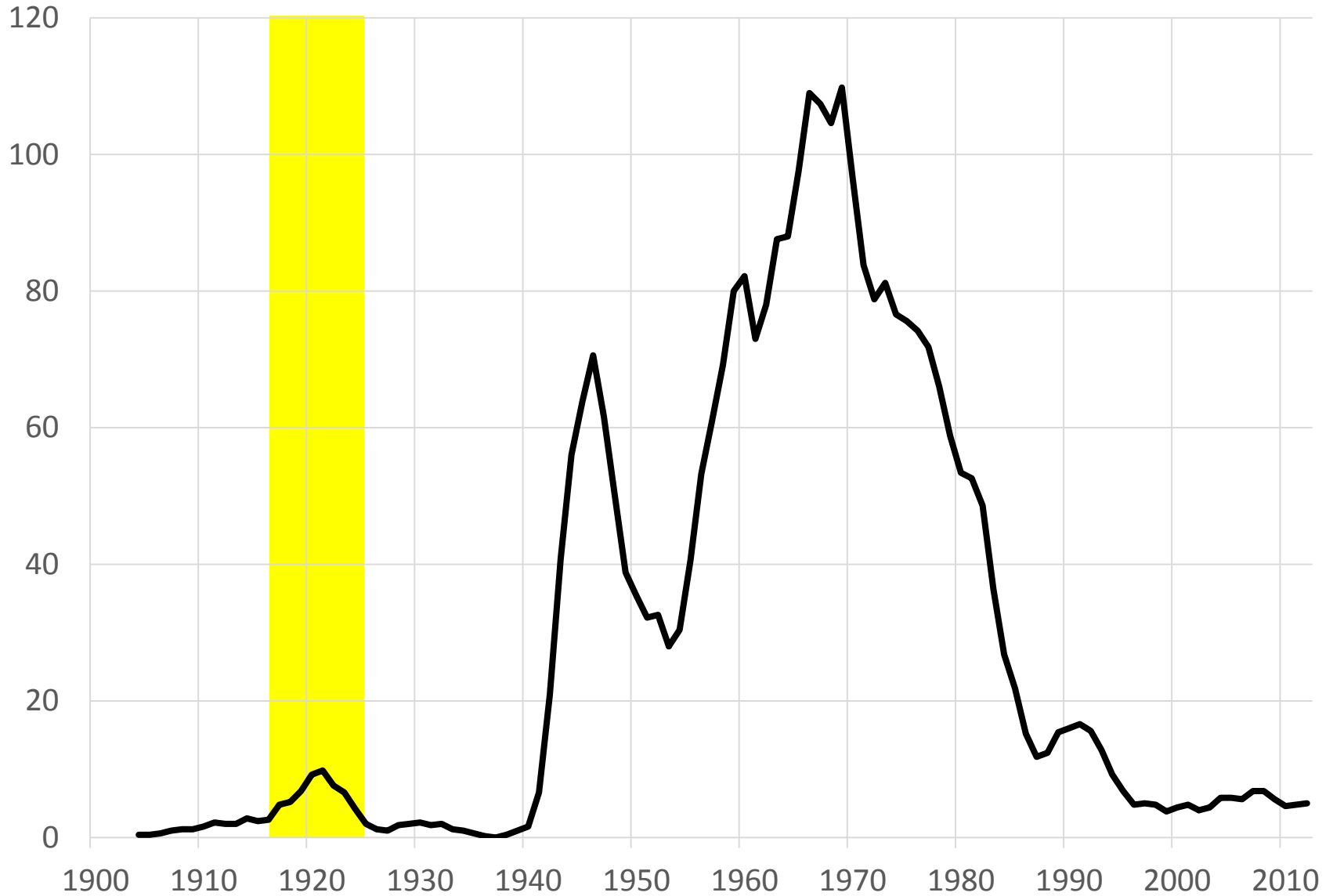


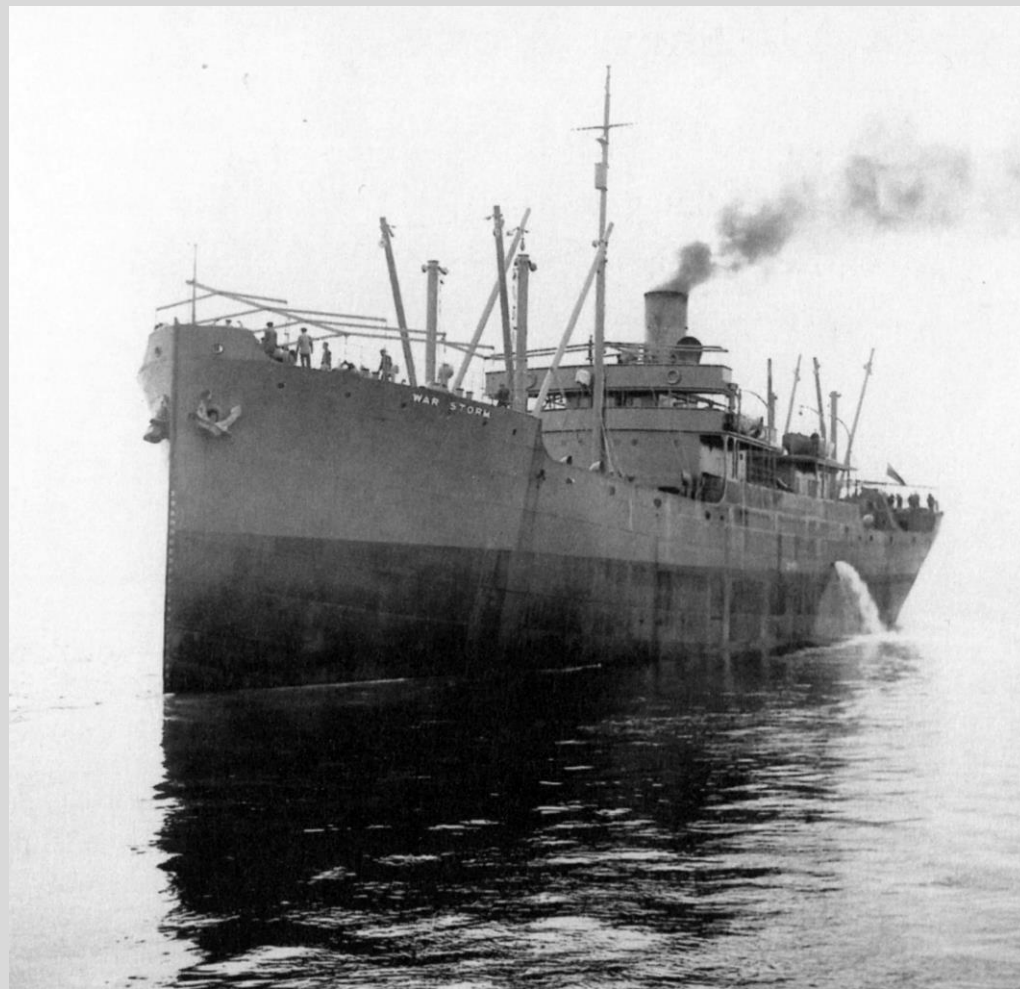


The First Shipbuilding Boom - 1917 to 1923

Employees in Front of Coughlan's Shipyard – 1918
Columbia and 1st Avenue – False Creek, Vancouver

Total Number of Steel Vessels Built Per Year in British Columbia





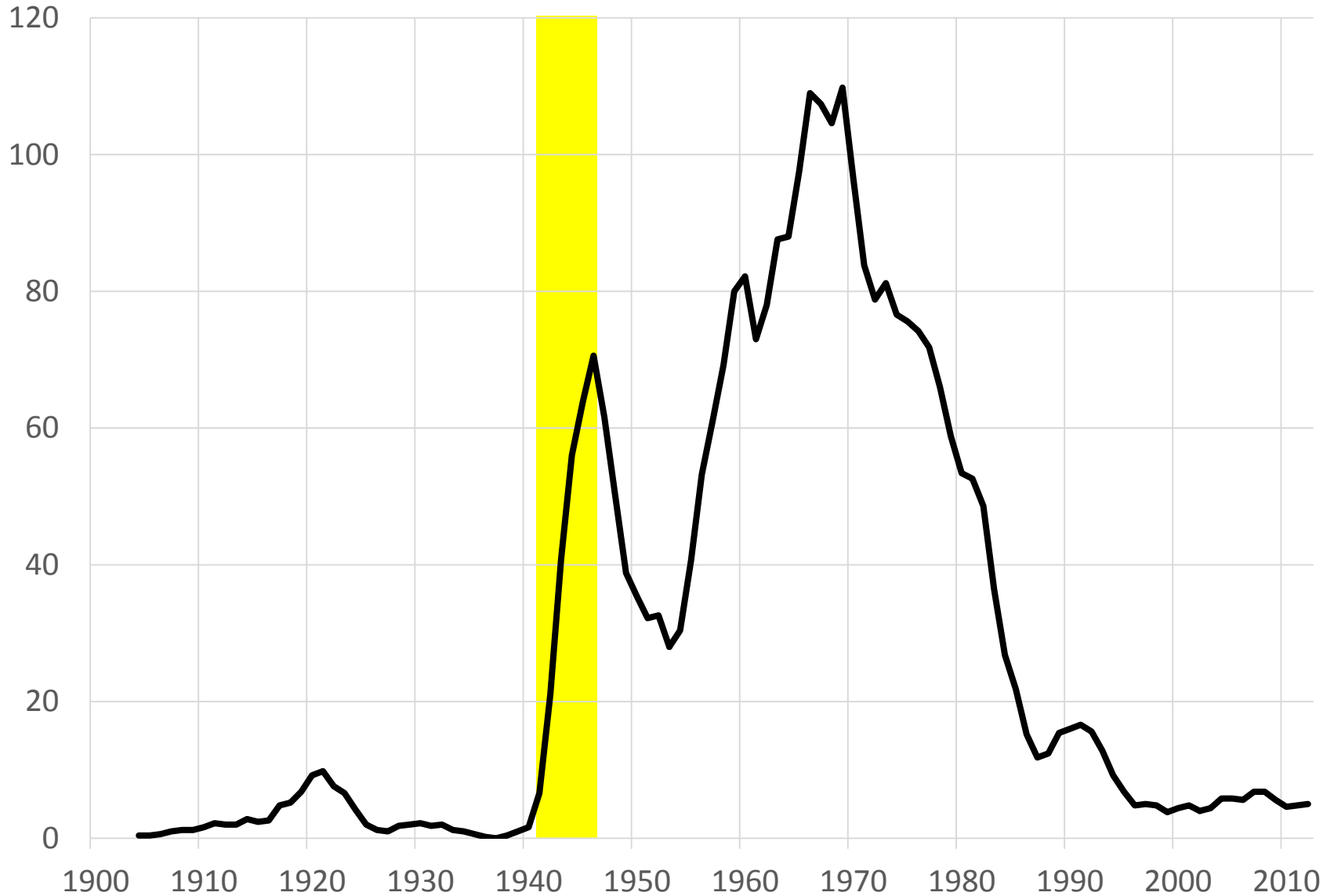
Cargo Vessel 'War Storm'

Built by Wallace Shipbuilding Company, North Vancouver - 1918



The Second Shipbuilding Boom - World War II

Total Number of Steel Vessels Built Per Year in British Columbia





Launch of 10,000 Ton Victory (Liberty) Ship

West Coast Shipbuilders, Vancouver

(Future Home of 2010 Winter Olympics Athletes' Village)



Victory Ship Entering Vancouver Harbour

Photo from Prospect Point

10,000 TON CARGO SHIP OUTPUT FROM BC SHIPYARDS DURING WORLD WAR II

Burrard Dry Dock

North Vancouver & Vancouver Yards 111

West Coast Shipbuilders

False Creek 55

North Van Ship Repairs

North Vancouver 54

Victoria Machinery Depot

Victoria 20

Prince Rupert Dry Dock

Prince Rupert 13

Yarrows Ltd.

Esquimalt 2

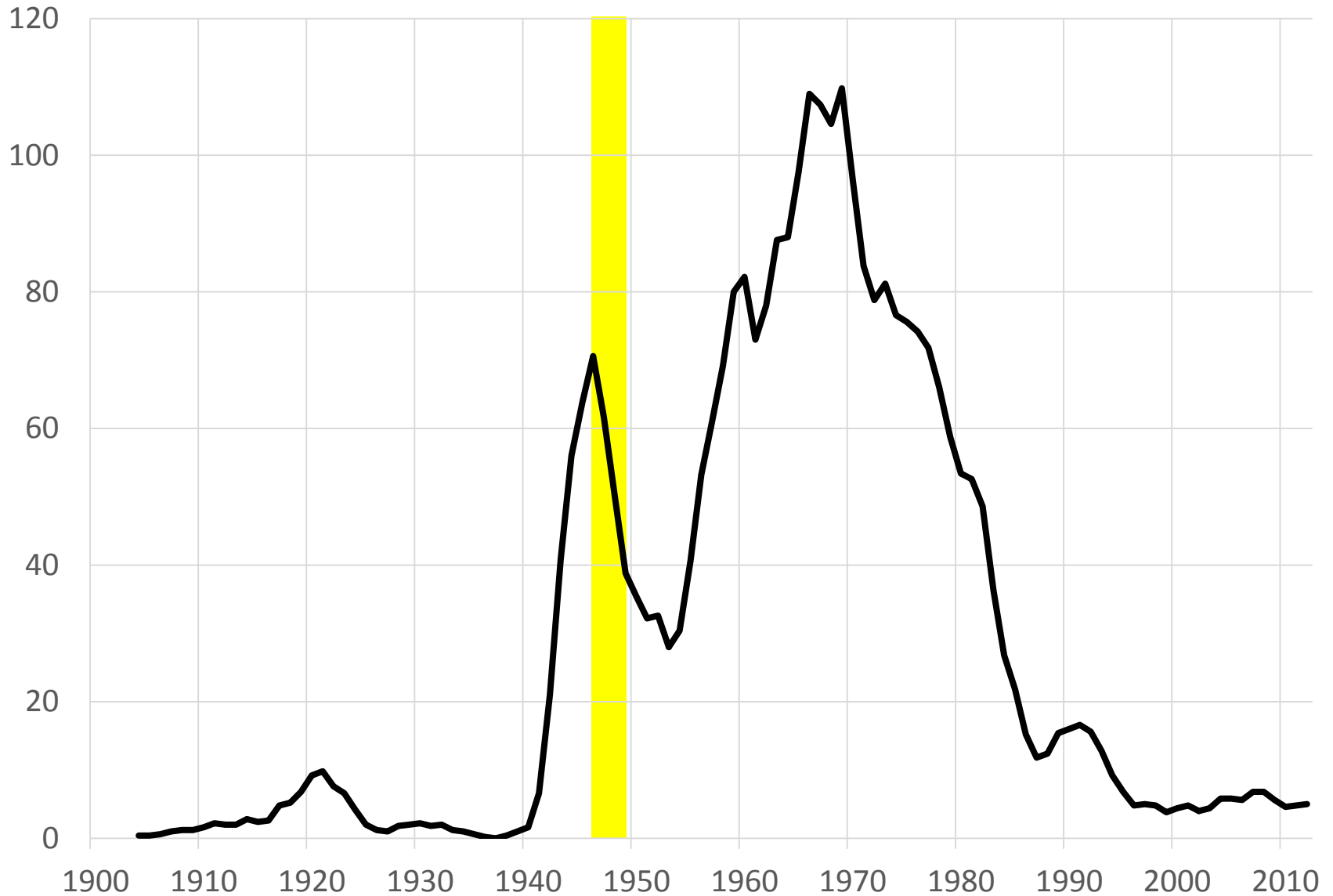
Total **255**

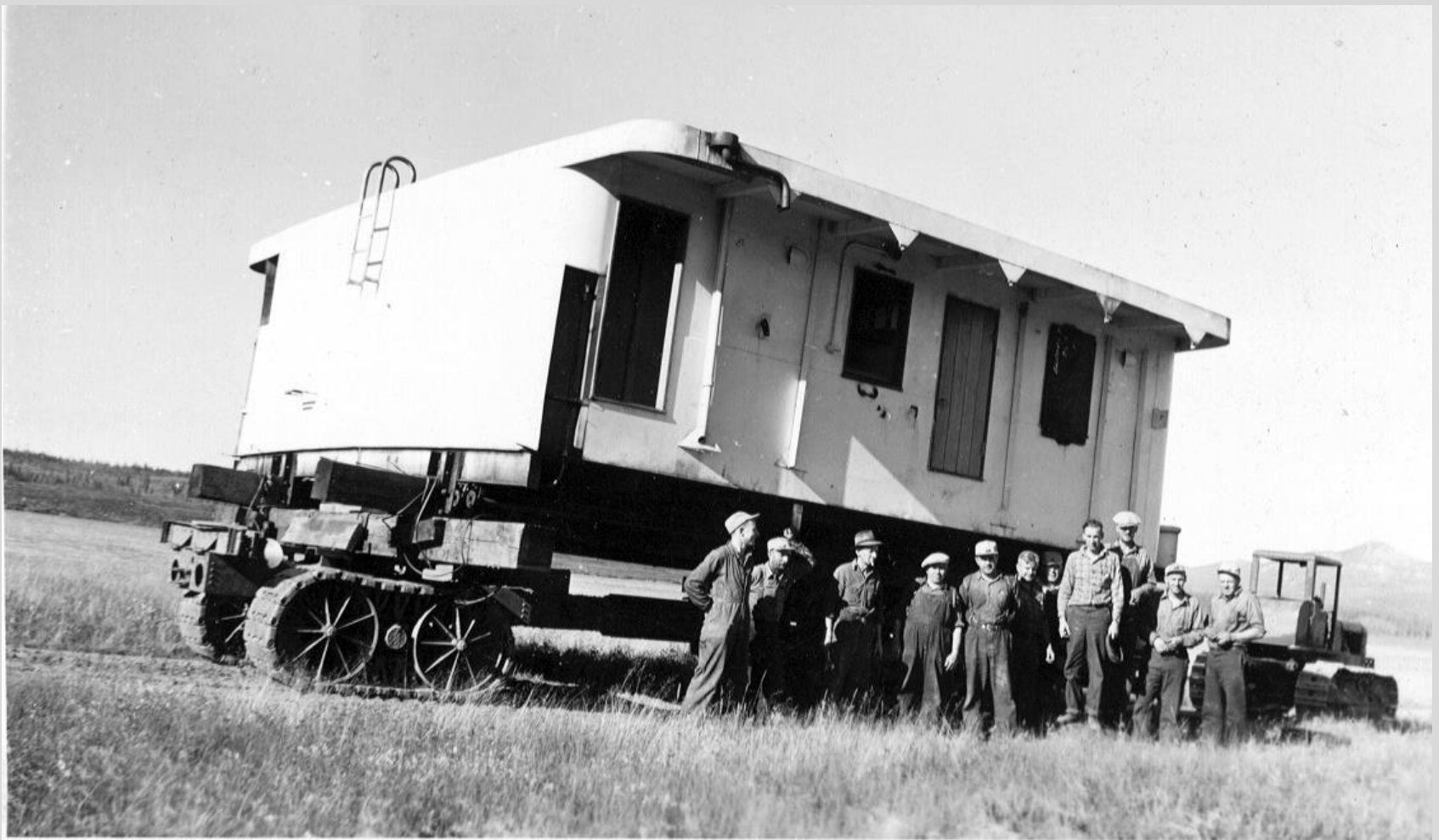


Post War Shipbuilding - 1946 to 1949

SS 'Prince George', Built by Yarrows – 1948

Total Number of Steel Vessels Built Per Year in British Columbia





Deckhouse of the 'Radium Gilbert'

On Portage in Northwest Territories – Summer 1946



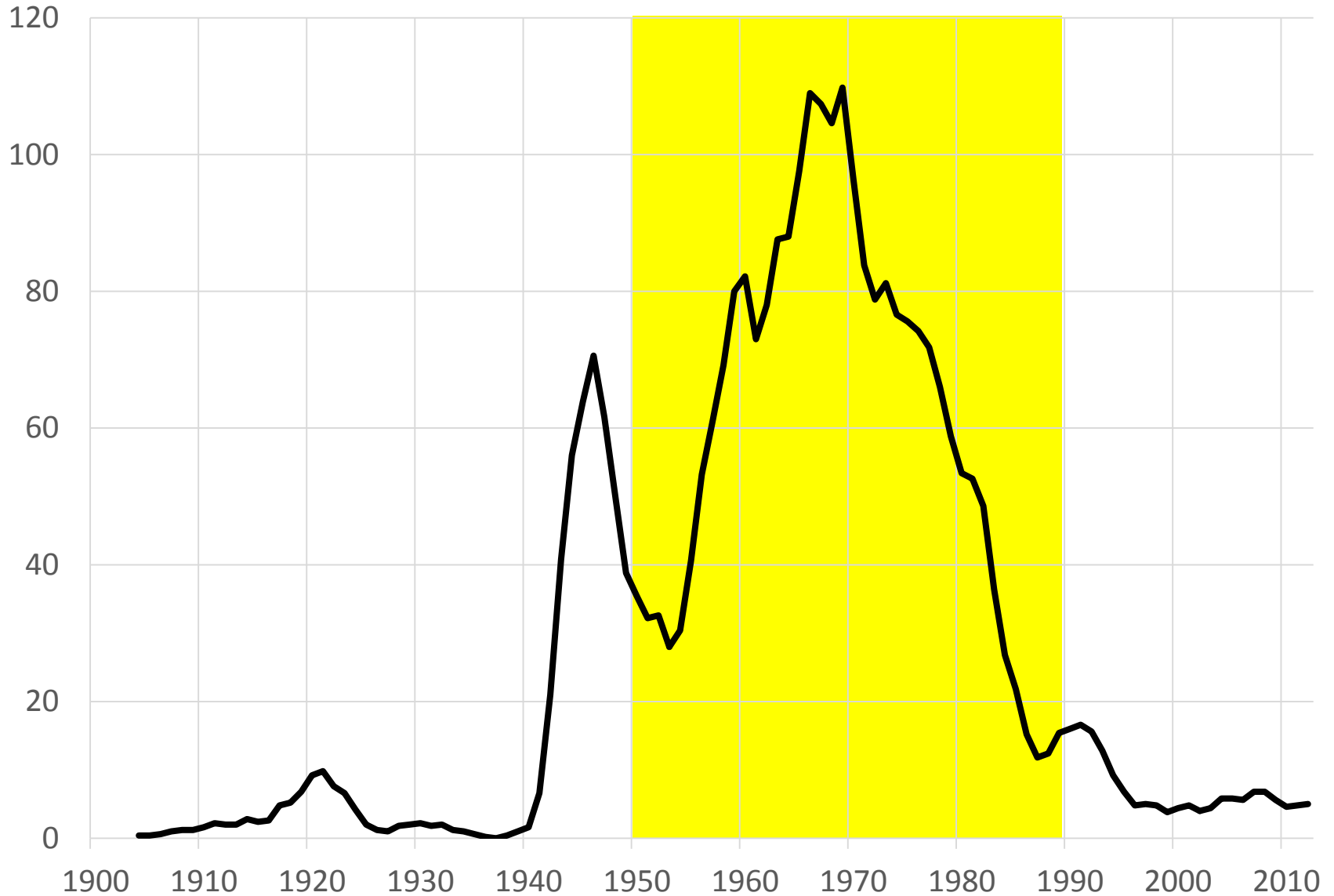
'Radium Gilbert'

On Great Bear Lake, Northwest Territories - 1946

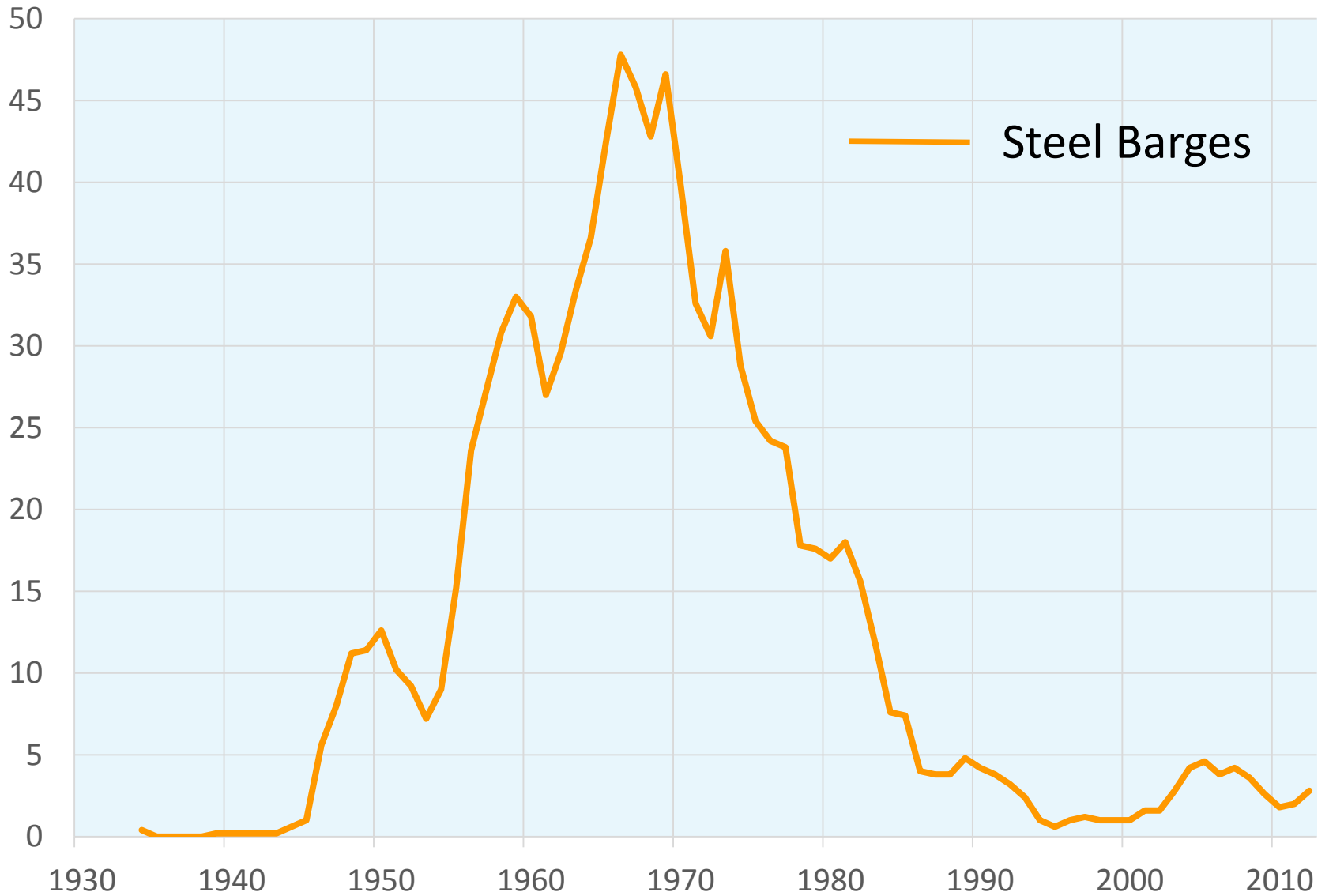
Building a BC Barge and Tug Fleet 1950 to 1990



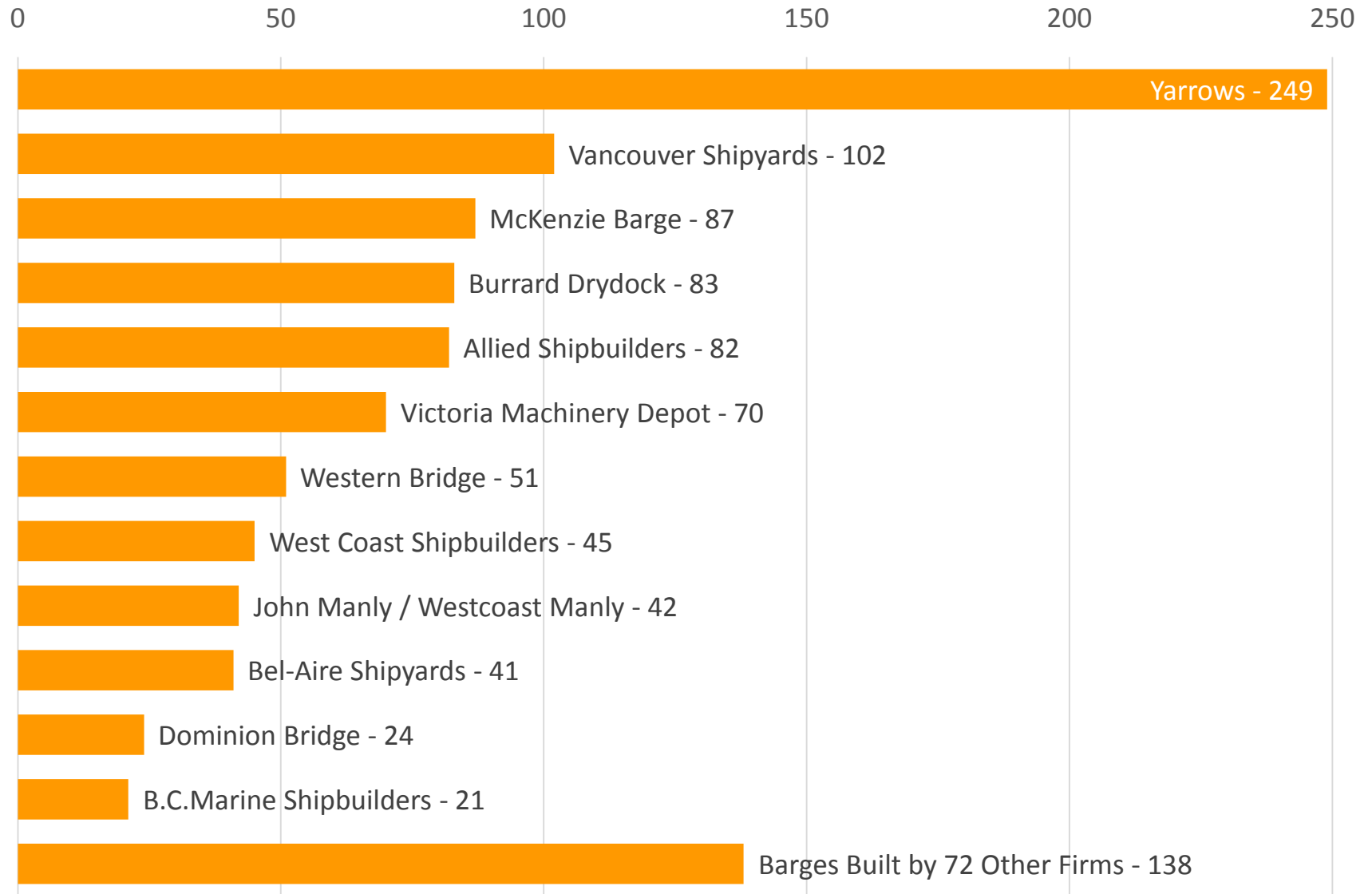
Total Number of Steel Vessels Built Per Year in British Columbia



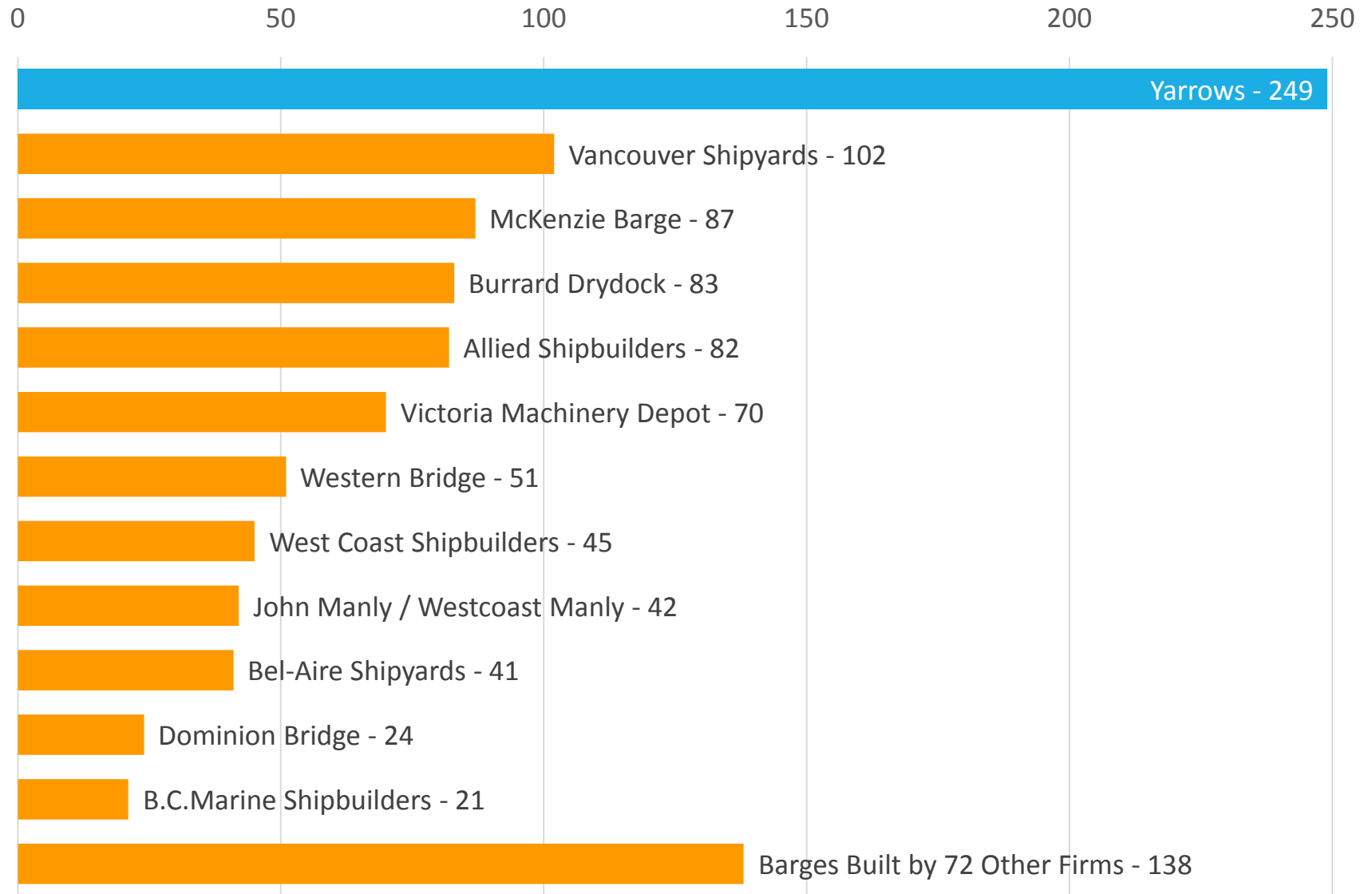
Number of Steel Barges Built Per Year in British Columbia

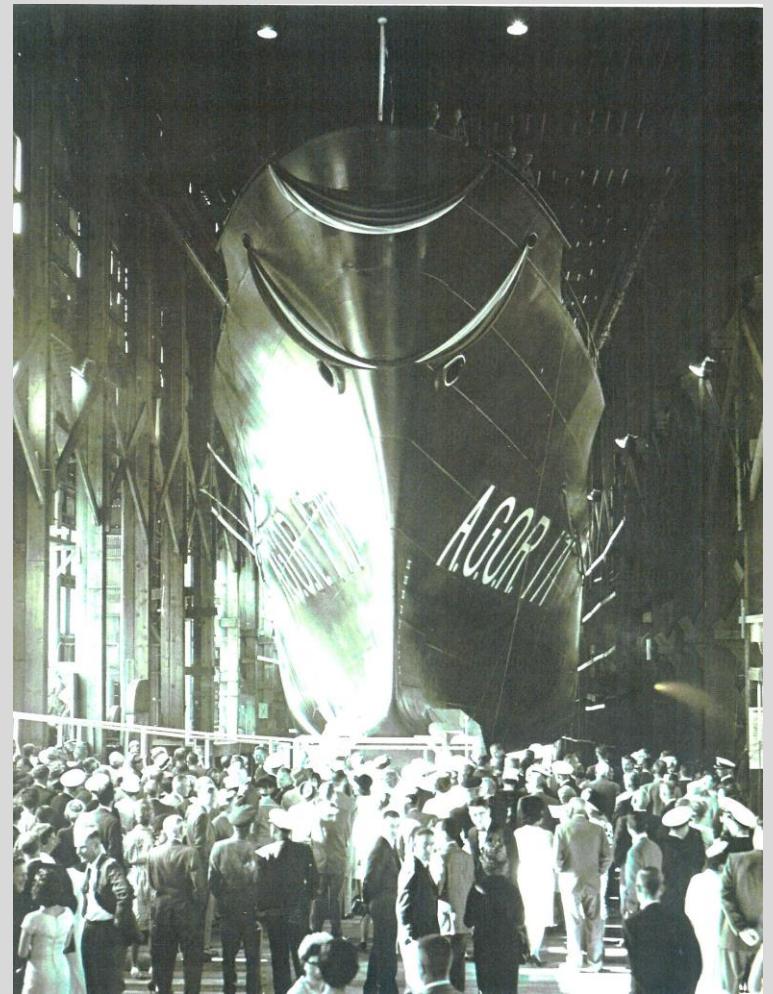


1,035 Steel Barges Built by BC Shipyards - 1907 to Present



1,035 Steel Barges Built by BC Shipyards - 1907 to Present





Interior of Yarrows' Covered Berth

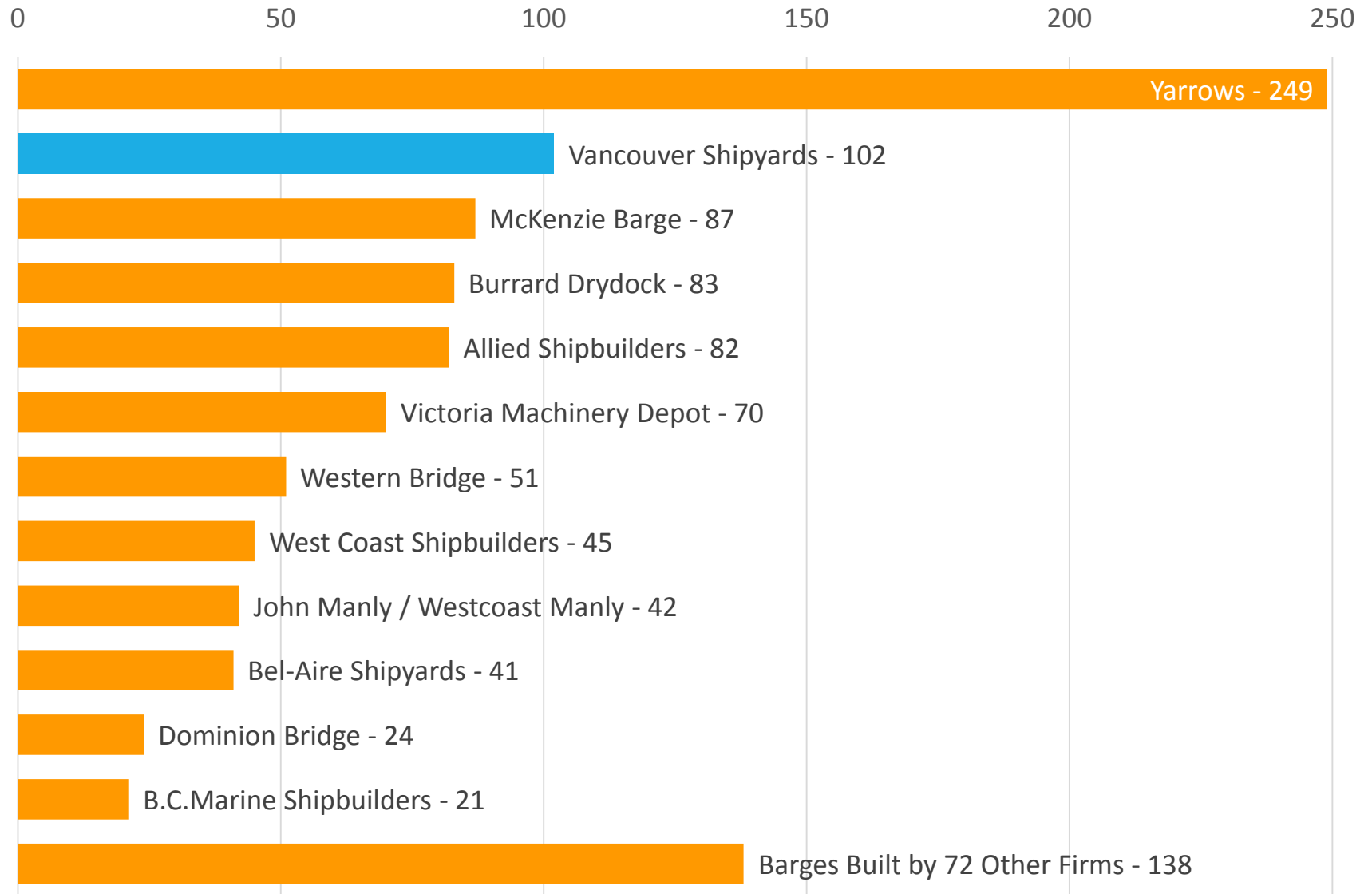
Yarrows Covered Building Berth Enhanced Productivity



A Typical British Columbia Chip Barge

Barge 'Island Tug No. 61'

1,035 Steel Barges Built by BC Shipyards - 1907 to Present

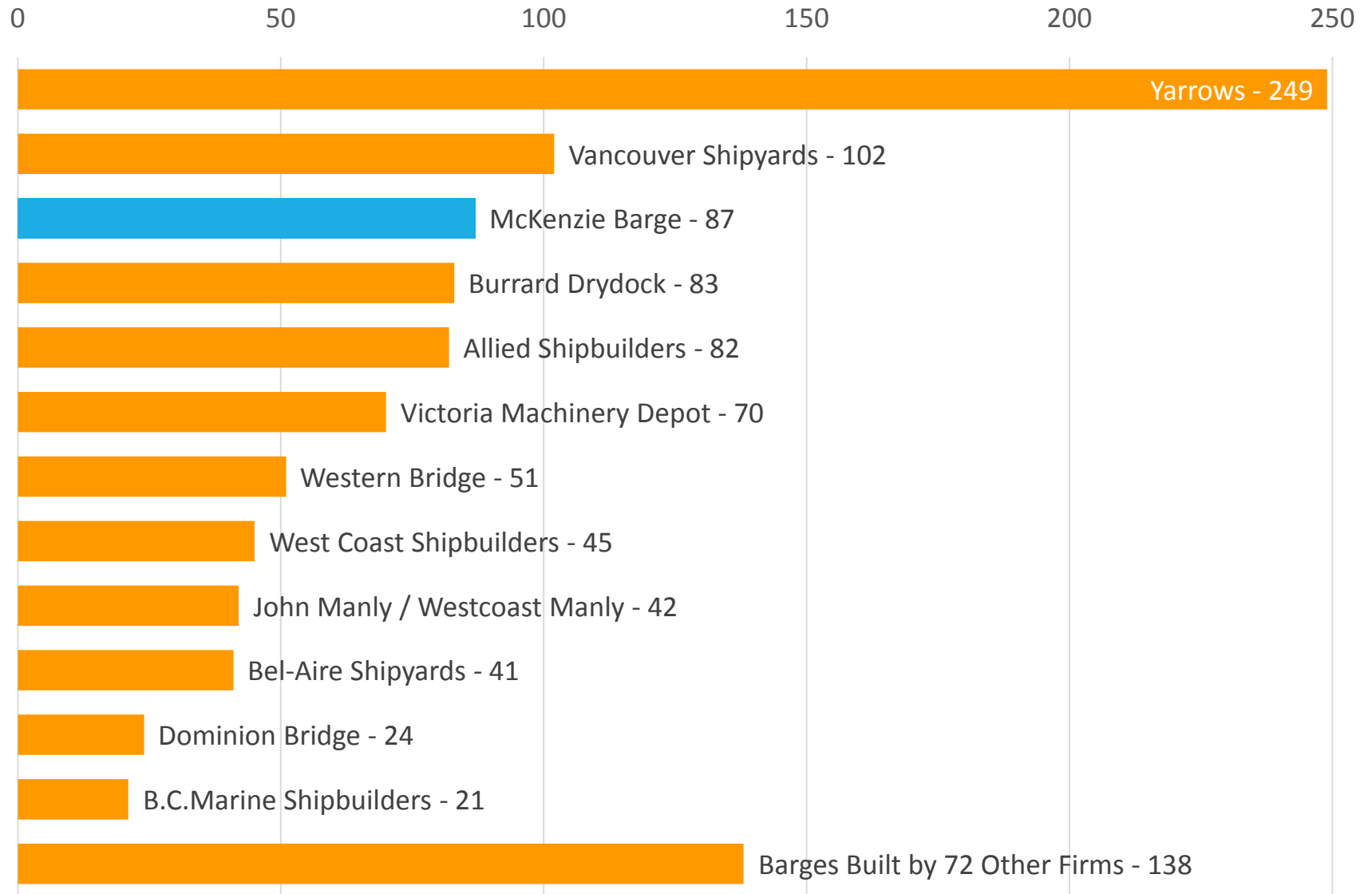




Vancouver Shipyards

Aerial Photo of Pemberton Avenue Facility – June 1967

1,035 Steel Barges Built by BC Shipyards - 1907 to Present

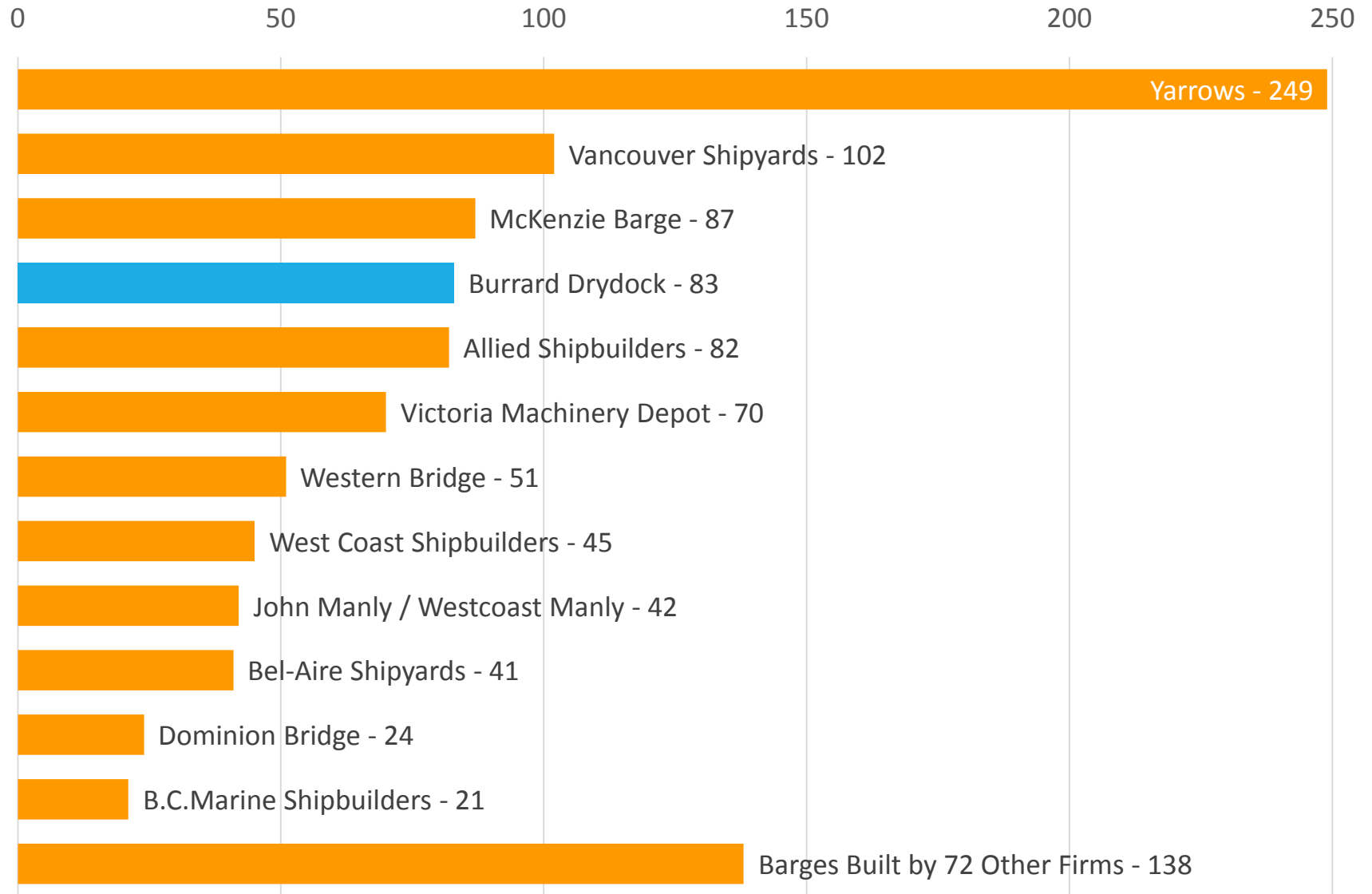




McKenzie Barge and Marineways

Aerial View of North Vancouver Facility – c.1960

1,035 Steel Barges Built by BC Shipyards - 1907 to Present

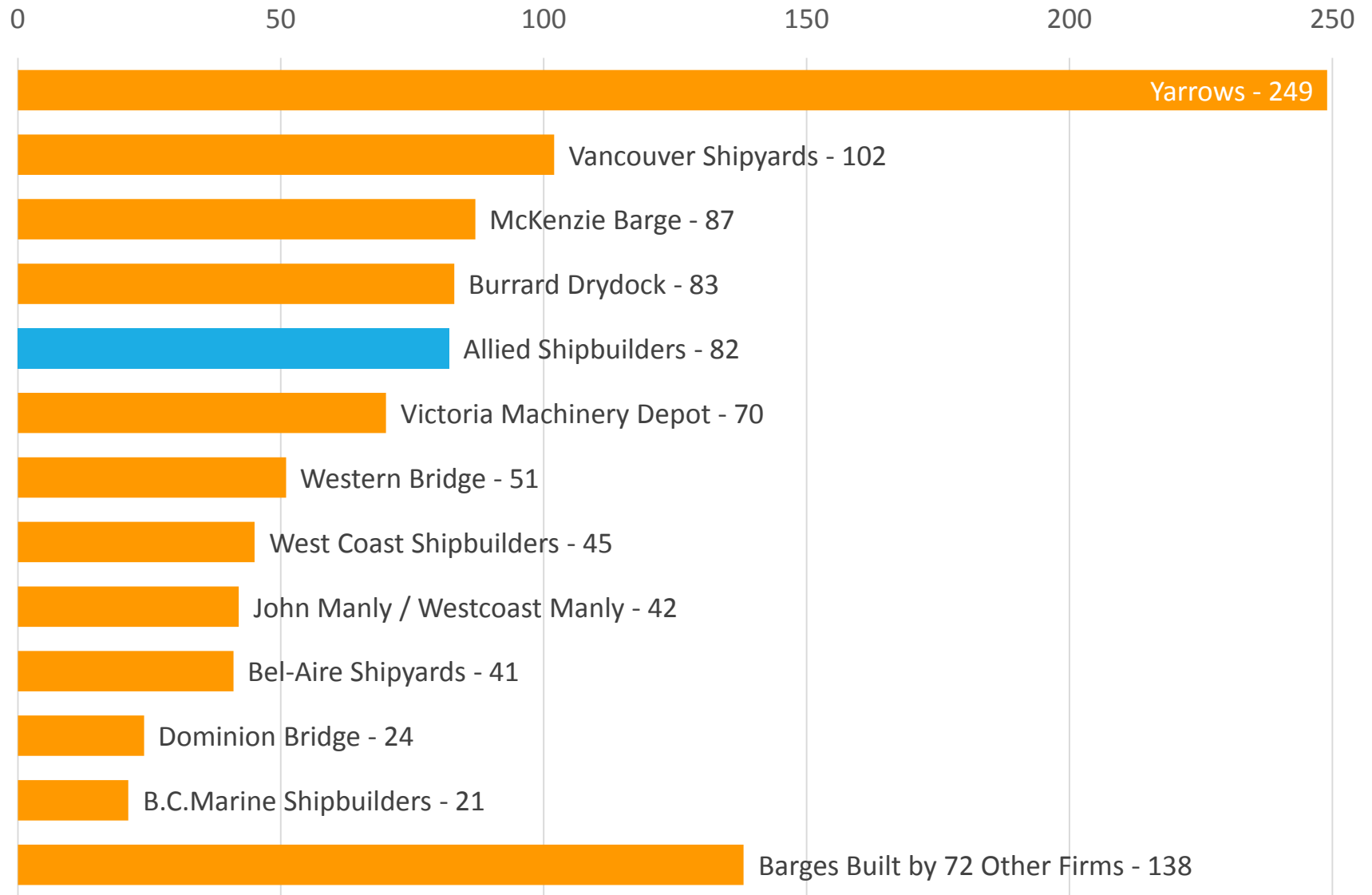




Burrard Drydock Company

Self-Dumping Log Barge 'Powell No.1' - 1964

1,035 Steel Barges Built by BC Shipyards - 1907 to Present





Allied Shipbuilders

Aerial View of North Vancouver Facility – 1969



Self-Dumping Log Barge

'Rayonier No.1' - Allied Shipbuilders Hull No.120



Self-Dumping Log Barge

'Rayonier No.1' - Allied Shipbuilders Hull No.120



Self-Dumping Log Barge

'Rayonier No.1' - Allied Shipbuilders Hull No.120



Self-Dumping Log Barge

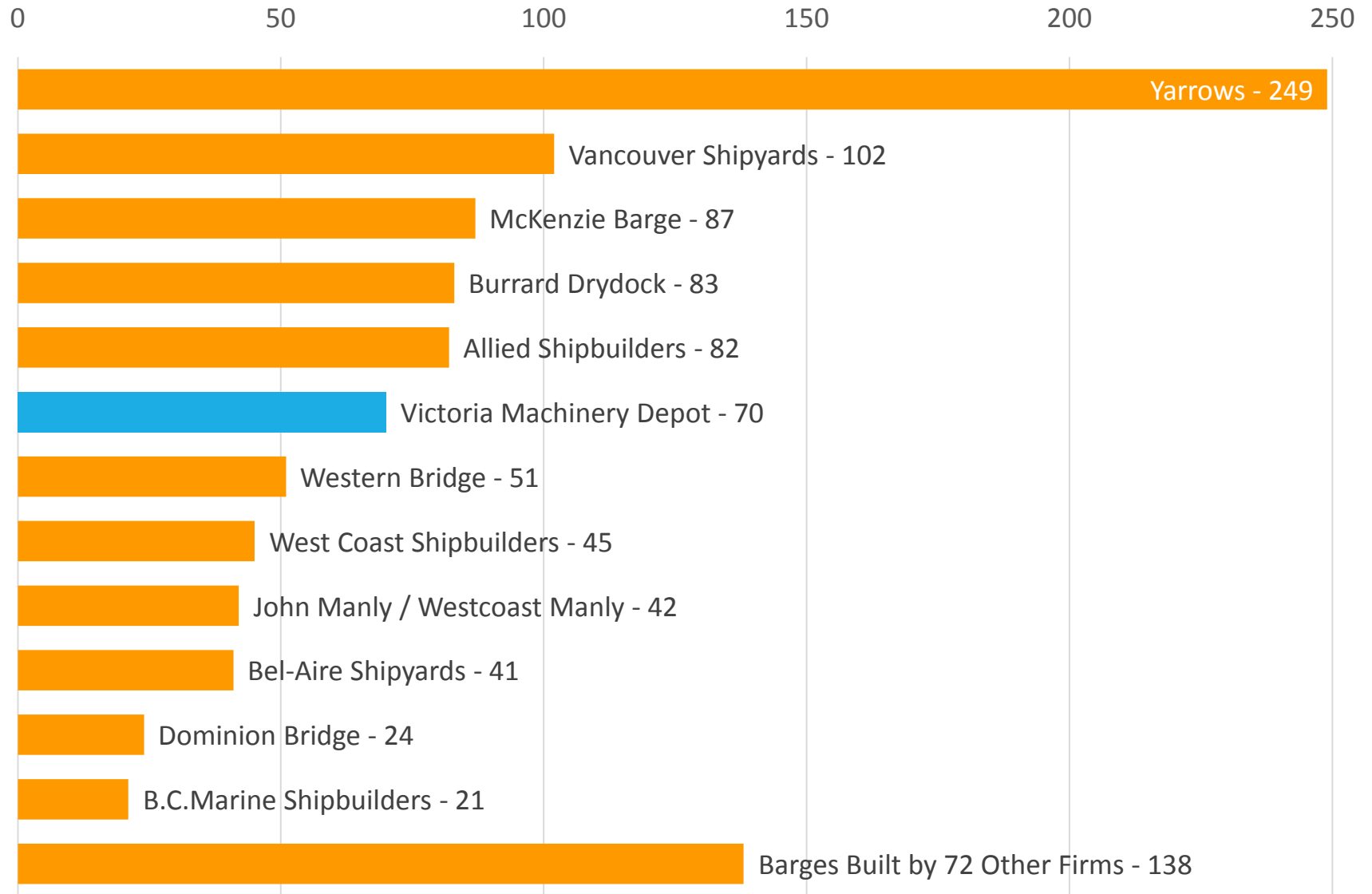
'Rayonier No.1' - Allied Shipbuilders Hull No.120

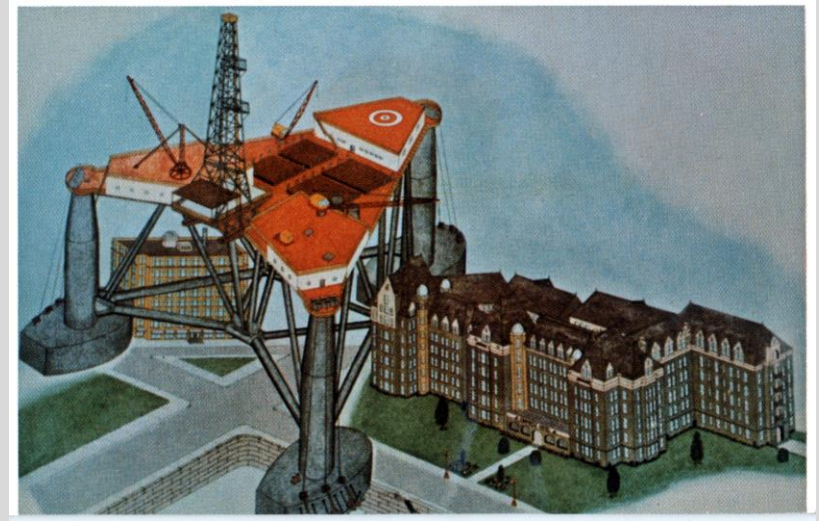


Self-Loading Log Barge

'Crown Zellerbach No.1' - Allied Shipbuilders Hull No.131

1,035 Steel Barges Built by BC Shipyards - 1907 to Present

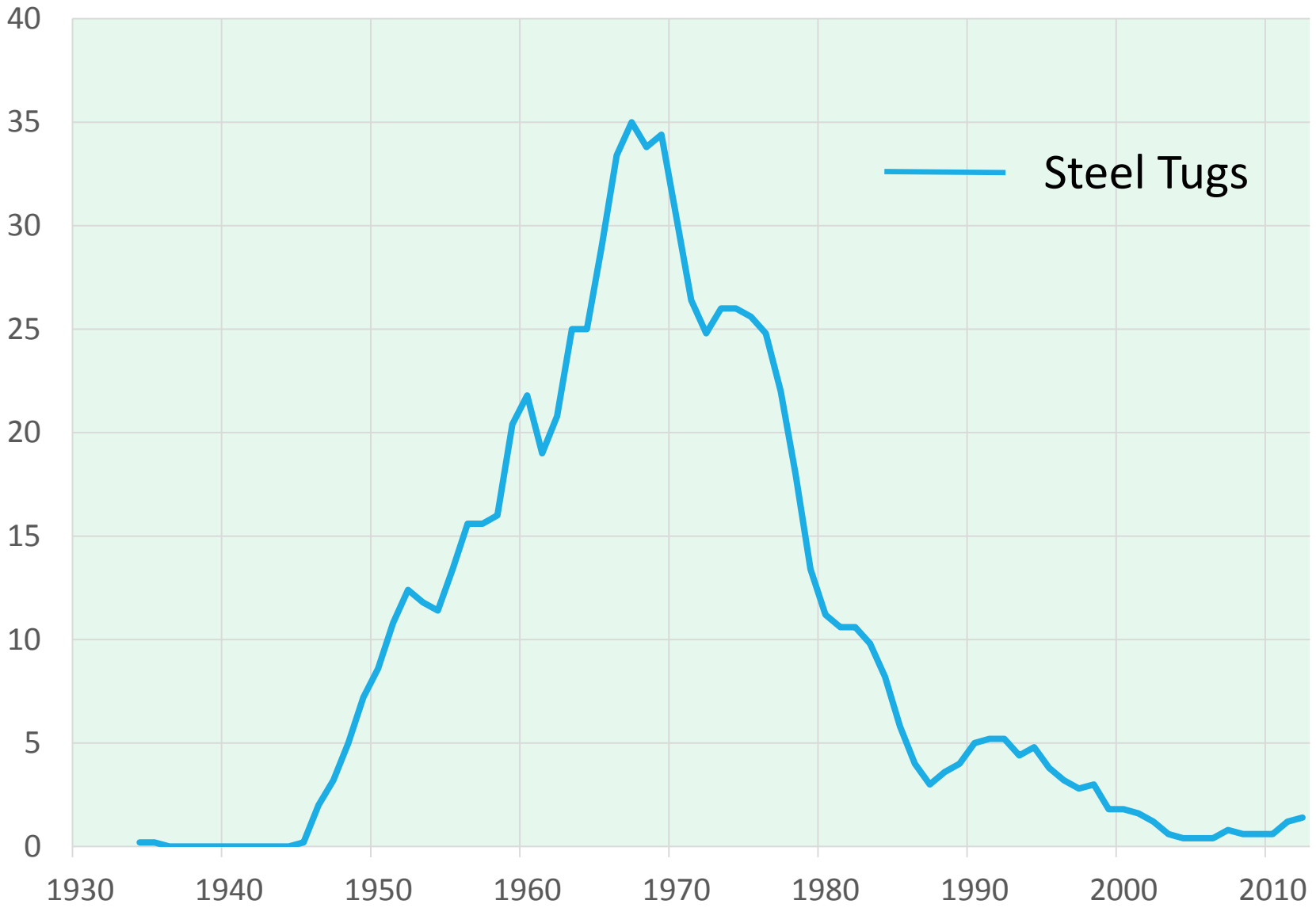




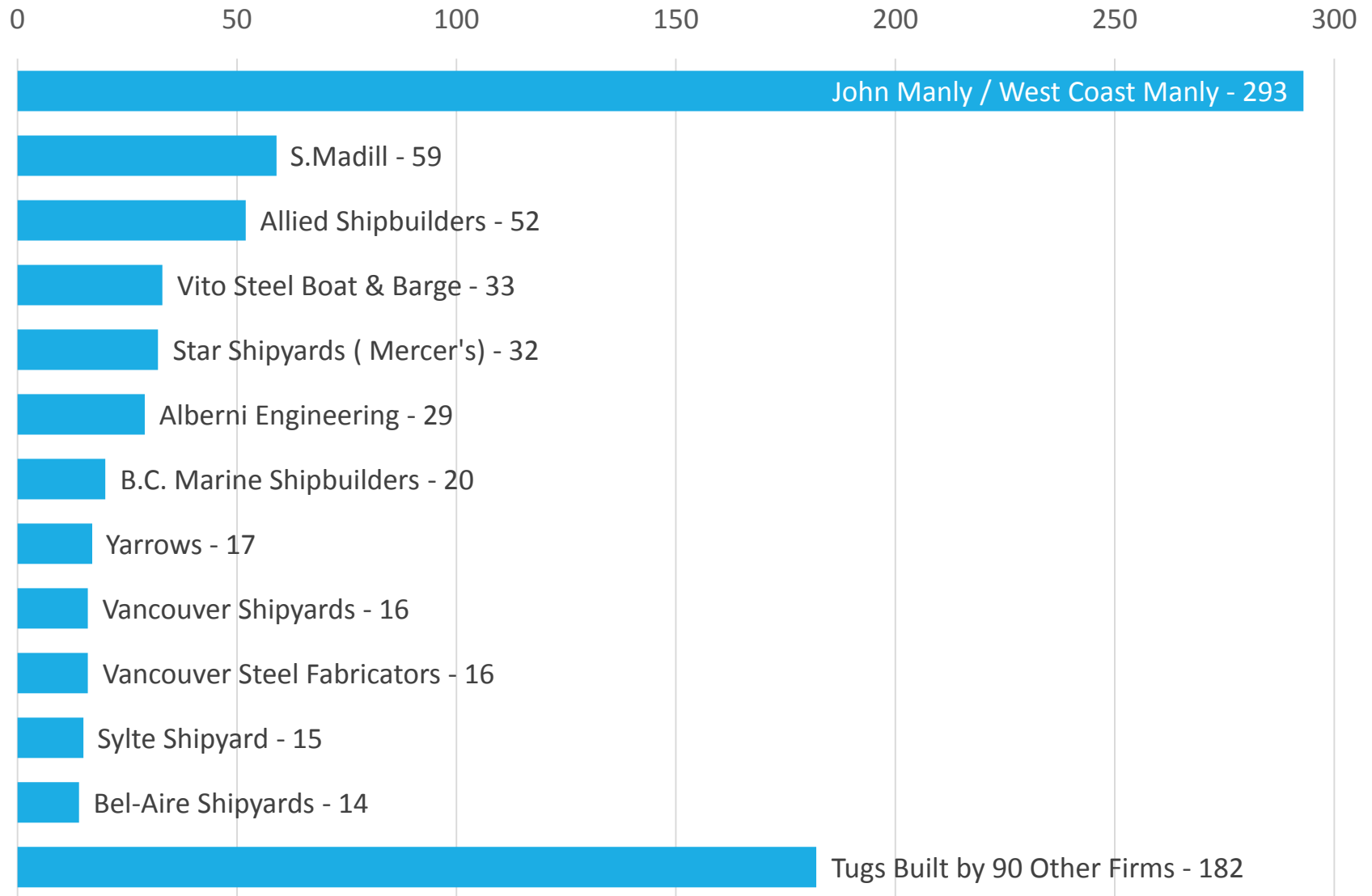
Victoria Machinery Depot

Semi-Submersible Drilling Rig Sedco 135F (Compared to the Empress Hotel)

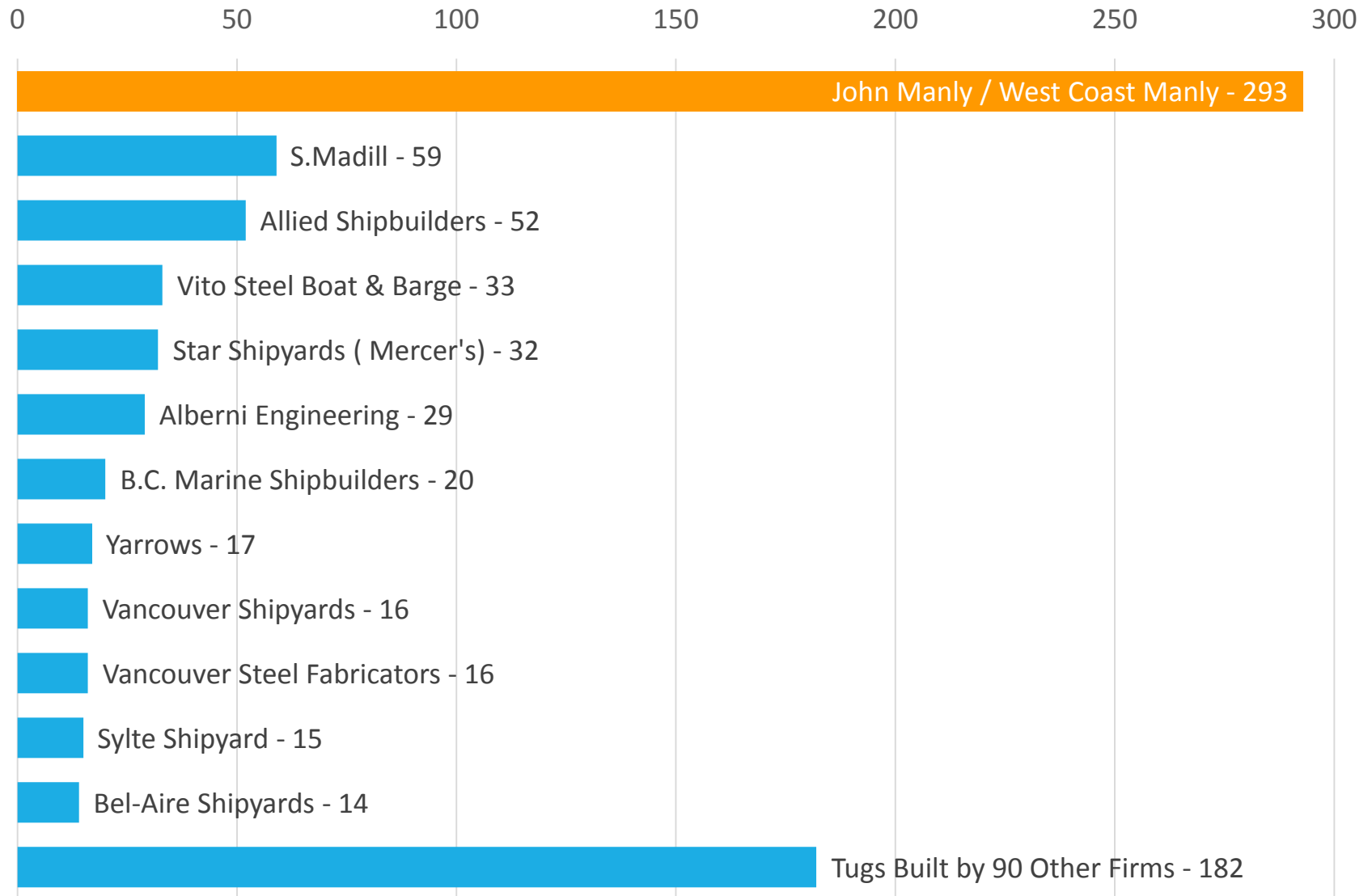
Number of Steel Tugs Built Per Year in British Columbia



778 Steel Tugs Built by BC Shipyards - 1906 to Present



778 Steel Tugs Built by BC Shipyards - 1906 to Present





John Manly (and Related Companies)

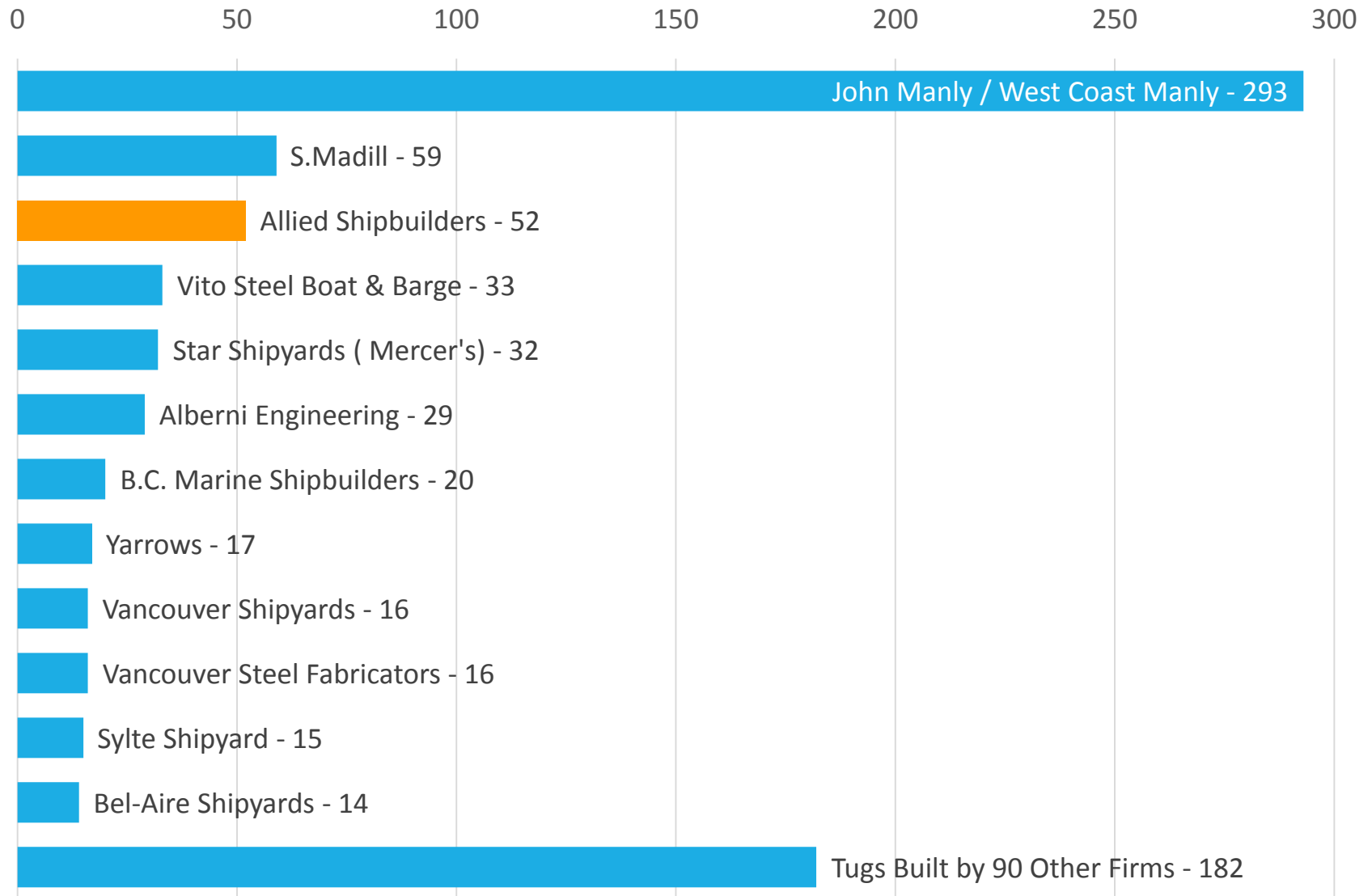
Responsible for the Construction of Nearly 40% of the Tugs Built in British Columbia



John Manly / Westcoast Manly

'Rivtow Capt. Bob' (Now 'Seaspan Royal')

778 Steel Tugs Built by BC Shipyards - 1906 to Present





Allied Shipbuilders

T.A. McLaren Piloting Allied Shipbuilders Hull No. 2 – 'Wee MacAdam'



Allied Shipbuilders

Hull No. 124 – 'Neva Straits'



Allied Shipbuilders

Hull No. 226 – 'Bandera' (Now 'Storm Bandit')



Allied Shipbuilders

Hull No. 231 – ‘Canmar Tugger’ (Now ‘Island Tugger’)



Allied Shipbuilders

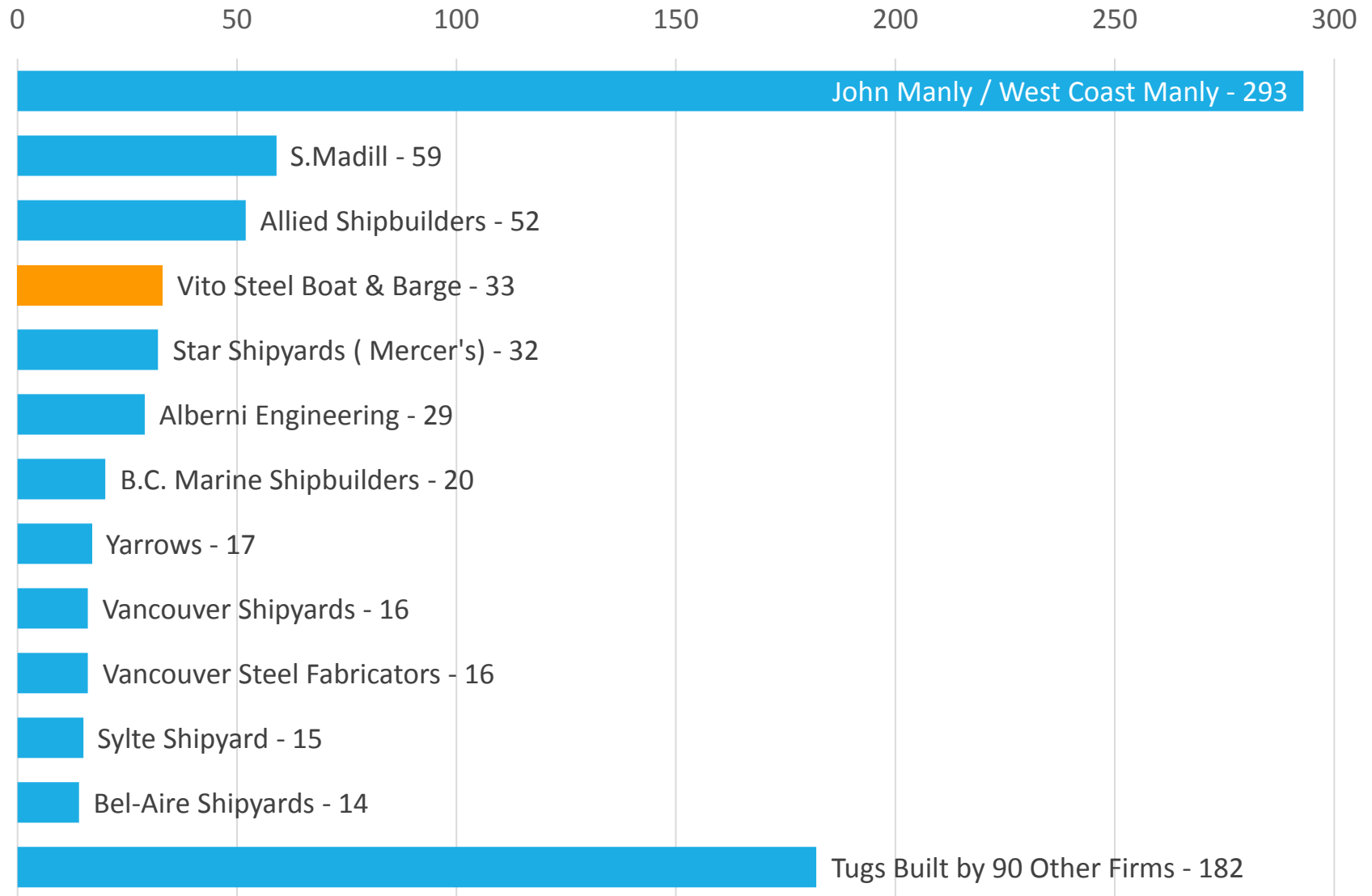
Hull No. 194 and No. 195 – ‘Arctic Taglu’ and ‘Arctic Hooper’
Keels Set and Main Engines Installed



Allied Shipbuilders

Hull No. 194 and No. 195 – 'Arctic Taglu' and 'Arctic Hooper'

778 Steel Tugs Built by BC Shipyards - 1906 to Present

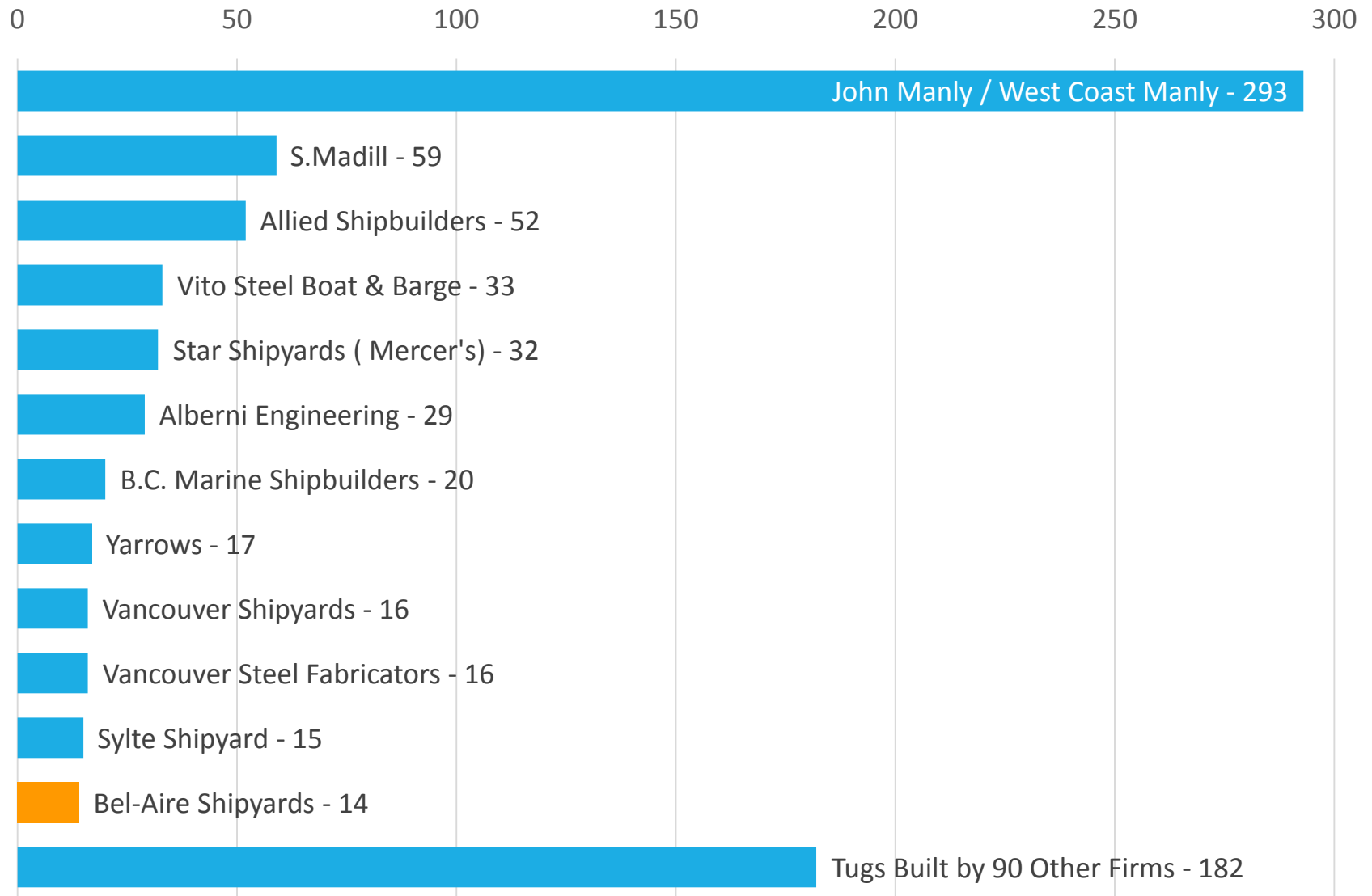




Vito Steel Boat and Barge

Launching of Steel Gravel Barge 'Packmore 4000' – 1976

778 Steel Tugs Built by BC Shipyards - 1906 to Present



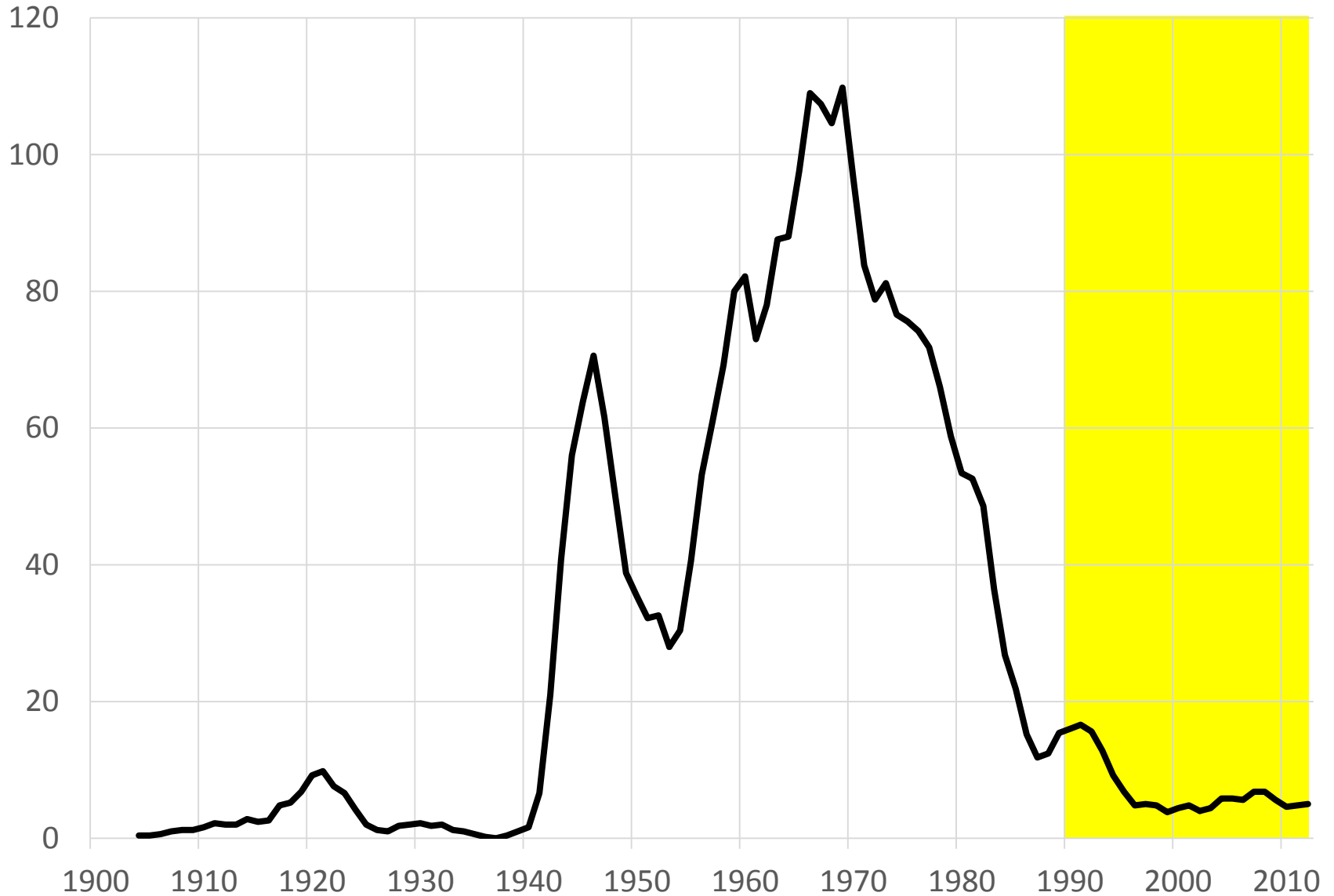


Bel-Aire Shipyards

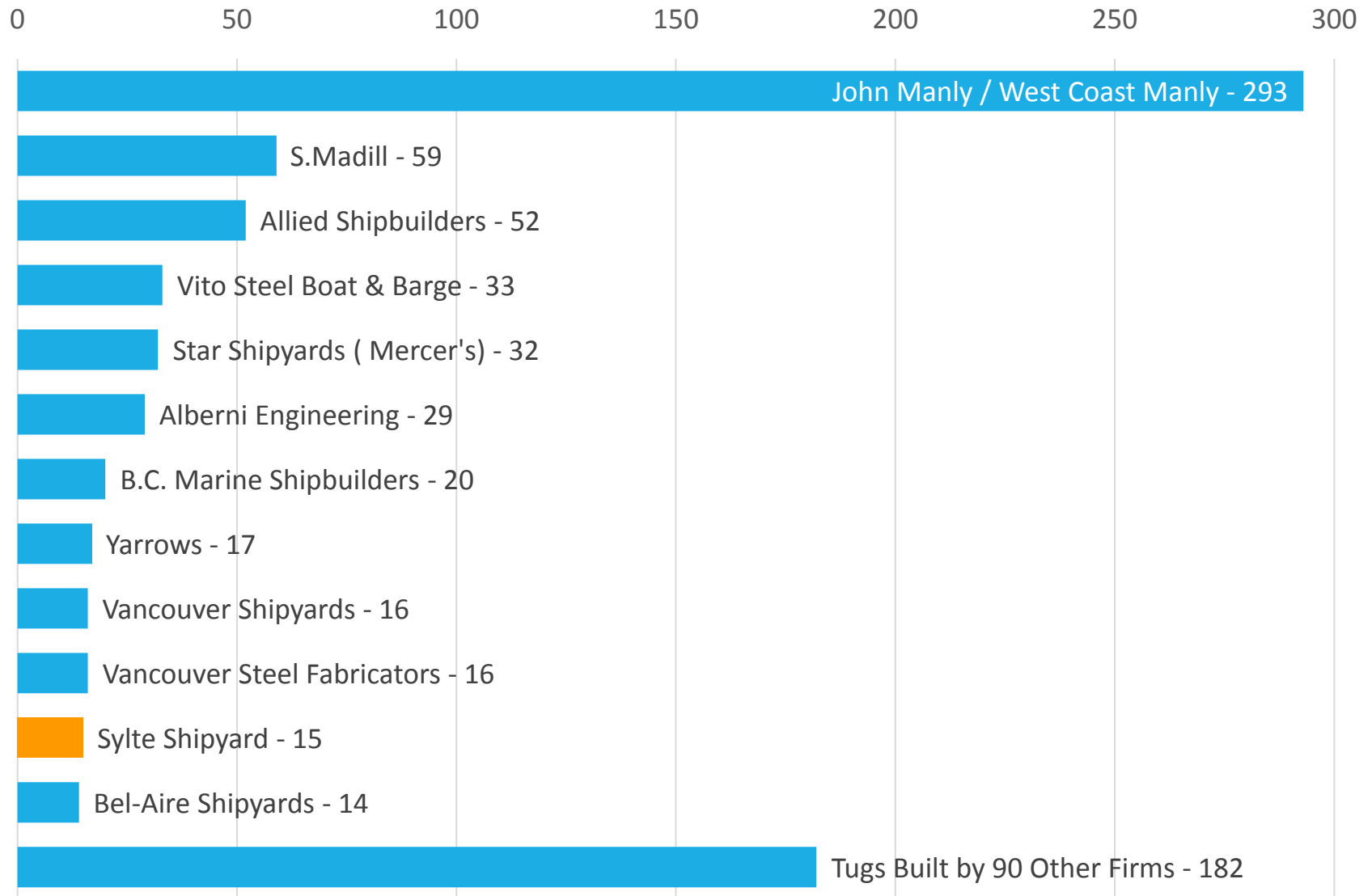
'Seaspan Regent' Prior to Launch

Ships Few and Far Between 1990 to Present

Total Number of Steel Vessels Built Per Year in British Columbia



778 Steel Tugs Built by BC Shipyards - 1906 to Present





Sylte Shipyard

5,400 BHP Ship-Docking Tug 'Tiger Sun' – Built 1999 (Now 'SMIT Tiger Sun')

Shipbuilding Yard Closures

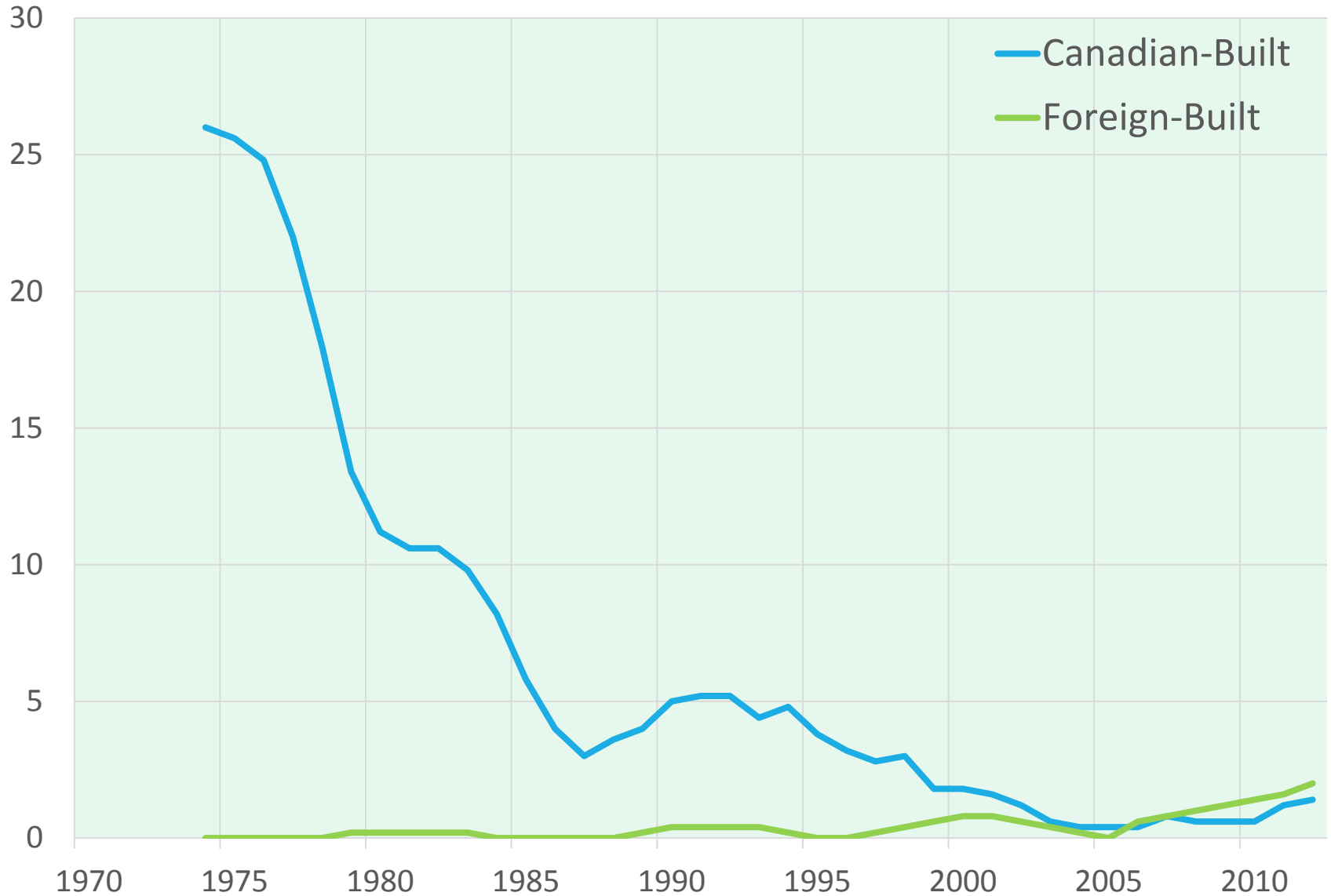
- **Burrard Drydock (Versatile) – North Vancouver**
- **Yarrows (Versatile) – Victoria**
- **Bel-Aire Shipyard – North Vancouver**
- **Westcoast Manly – Vancouver**
- **Vito Steel Boat – Delta**
- **Matsumoto – North Vancouver**
- **Shore Boats – Richmond**



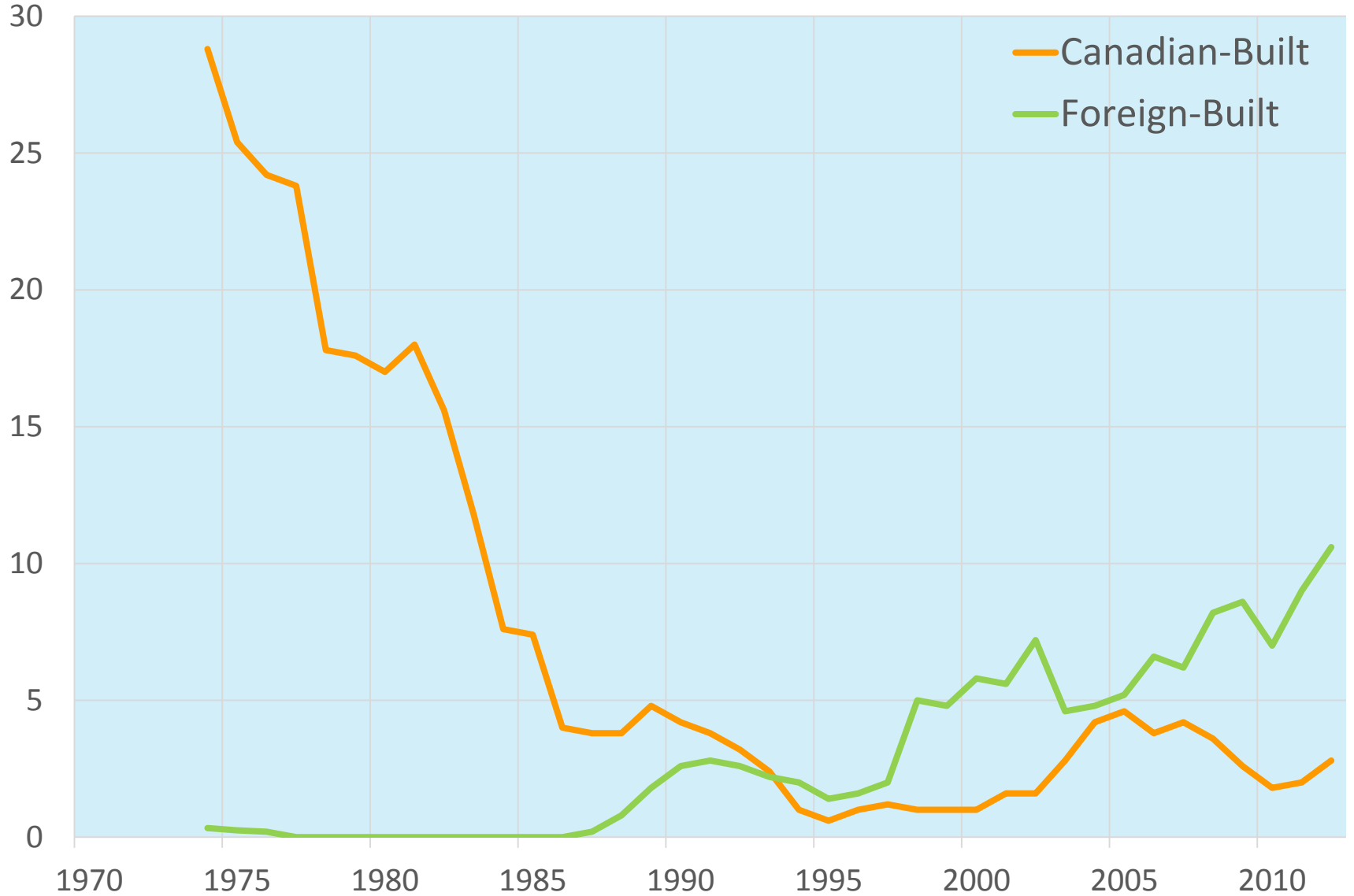
Shift to Repair Work with Shipbuilding Capability

Allied Shipbuilders Hull No. 244 – 1,680 Ton Capacity Drydock

Number of Steel Tugs Registered Per Year in British Columbia



Number of Steel Barges Registered Per Year in British Columbia



Seaspan Deliveries Since 2000

Barges	Quantity
Chip and Gravel Barges	28
Double-Hull Fuel Barges	5
TOTAL	33

Self-Propelled Vessels	Quantity
River Tugs	2
Intermediate Class Ferries	2
Orca Class Training Vessels	8
Cape Class Motor Lifeboats	30
TOTAL	42



Seaspan Chip Barges Under Tow

Thank You

