



PORT OF LONGVIEW

PIANC

SMART RIVERS 2007

**Barge Navigation on the
Columbia / Snake River System**

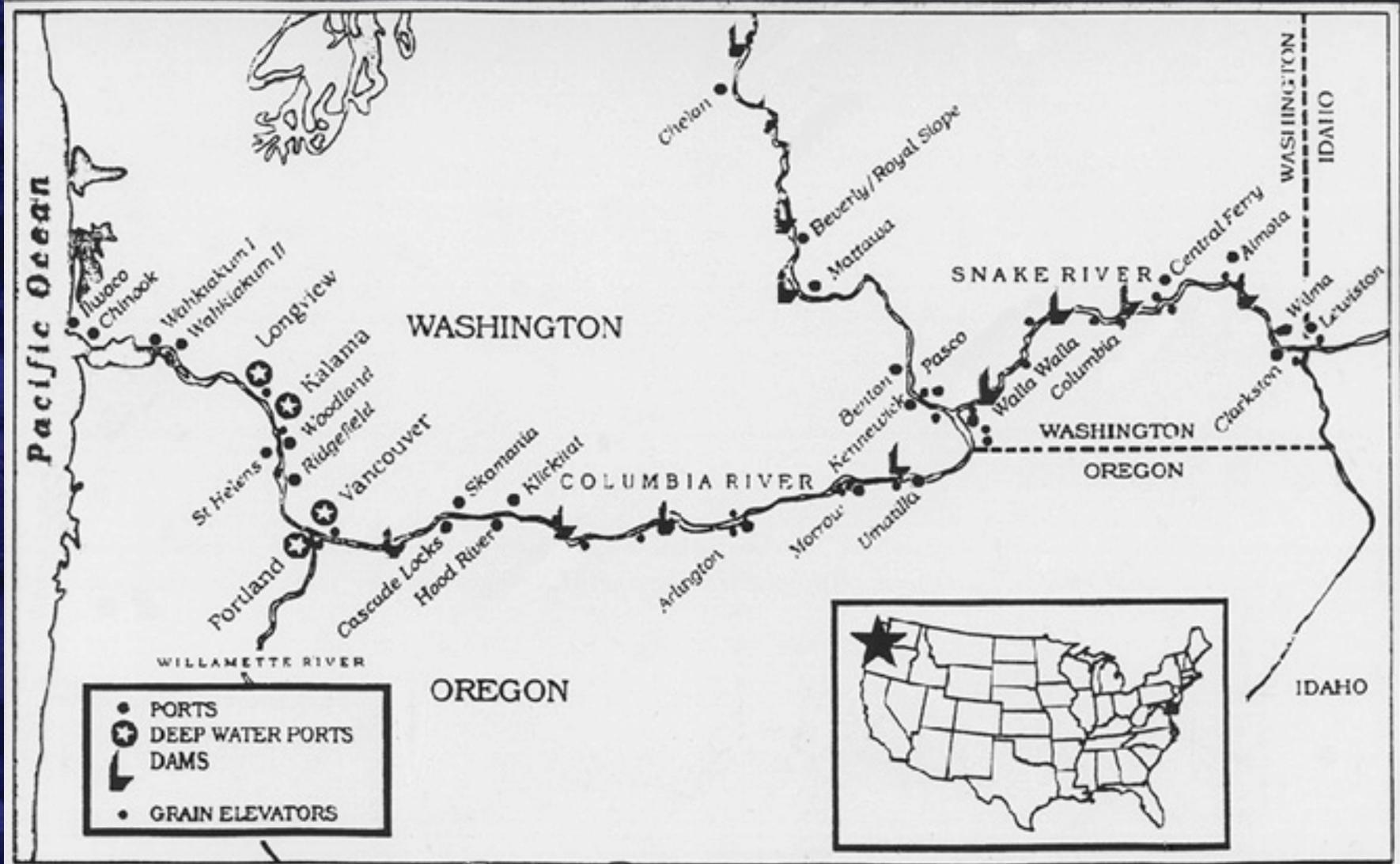
Ken O'Hollaren
Executive Director
Port of Longview

Columbia River Basin

Columbia System Basin



Columbia Snake River System



Map courtesy of the Pacific Northwest Waterways Association

Lower Columbia River Ports



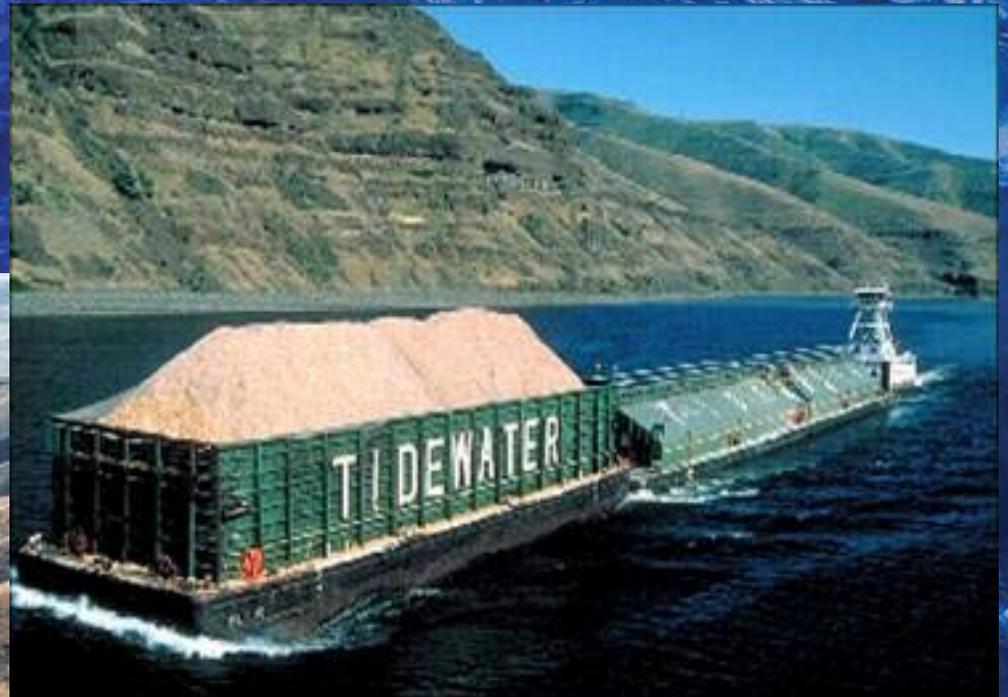
Map courtesy of the Port of Portland

Snake River Dams



Map courtesy of the Columbian

Barging on the Snake and Columbia Rivers



Photos courtesy of Tidewater

Locks on the Snake River Ice Harbor Dam



photo courtesy of the Port of Portland

Locks on the Snake River Little Goose Dam



photo courtesy of the Port of Portland

Columbia Snake River Barge Navigation by the numbers

- 36 ports along the system
- 360 river miles from Portland, Oregon to Lewiston, Idaho
- 8 sets of locks (to Lewiston)
- 80% of Pacific Northwest wheat production moves through the system for export
- 14 feet draft / Portland to Lewiston
- 40 feet draft / Portland to ocean

Major Cargos

- Grain
- Containers
- Petroleum
- Wood chips

Grain

- 6 million metric tons – down river by barge
- 14 million metric tons – exported through six Lower Columbia River elevators
- 27 upriver elevators – from The Dalles, Oregon to Lewiston, Idaho

Wheat.....

#1 gateway in the U.S

37% of U.S. exports



illustration courtesy of the Port of Portland

Grain Barge Upper Columbia River



photo courtesy of Tidewater

Grain - Snake River Port of Lewiston, Idaho



photo courtesy of the Port of Lewiston

Grain - Snake River Port of Almota, Washington



photo courtesy of the Port of Almota

Grain - Snake River Port of Almota, Washington



photo courtesy of the Port of Almota

Grain – Barging near Port of Pasco, Washington



photo courtesy of Tidewater

Grain - Mid Columbia River Port of Umatilla, Oregon



photo courtesy of the Port of Portland

Grain Export Elevator Harvest States, Port of Kalama, Washington



photo courtesy of the Port of Kalama

Grain Export Elevator Kalama Export, Port of Kalama, Washington



photo courtesy of the Pacific Northwest Waterways Association

Grain Export Elevator Port of Portland, Oregon



photo courtesy of the Pacific Northwest Waterways Association

Containers

- 46,261 export containers from Portland
- 10,653 arrive by barge

Principal Cargos

peas, beans, lentils

animal feed

wood pulp

Containers on Barge Tidewater Tow in McNary Lock



photo courtesy of Tidewater

Containers on Dock



photo courtesy of Tidewater

Containers.....
to and from 43 states



illustration courtesy of the Port of Portland

Mid Columbia River Port Aerial View - Port of Pasco, Washington



photo courtesy of the Port of Pasco

Containers

Port of Pasco, Washington



photo courtesy of the Port of Pasco

Containers Port of Morrow, Oregon



photo courtesy of the Port of Portland

Containers

Port of Portland, Oregon, T-6



photo courtesy of the Port of Portland

Petroleum

- 3.5 million metric tons upriver annually

Tidewater Petroleum Barge



photo courtesy of Tidewater

Tidewater Petroleum Barge



photo courtesy of Tidewater

Snake River Petroleum Terminal near Pasco, Washington



photo courtesy of Tidewater

Wood Chips Aerial View - Port of Wilma, Washington



photo courtesy of the Port of Wilma

Wood Chips Port of Wilma, Washington



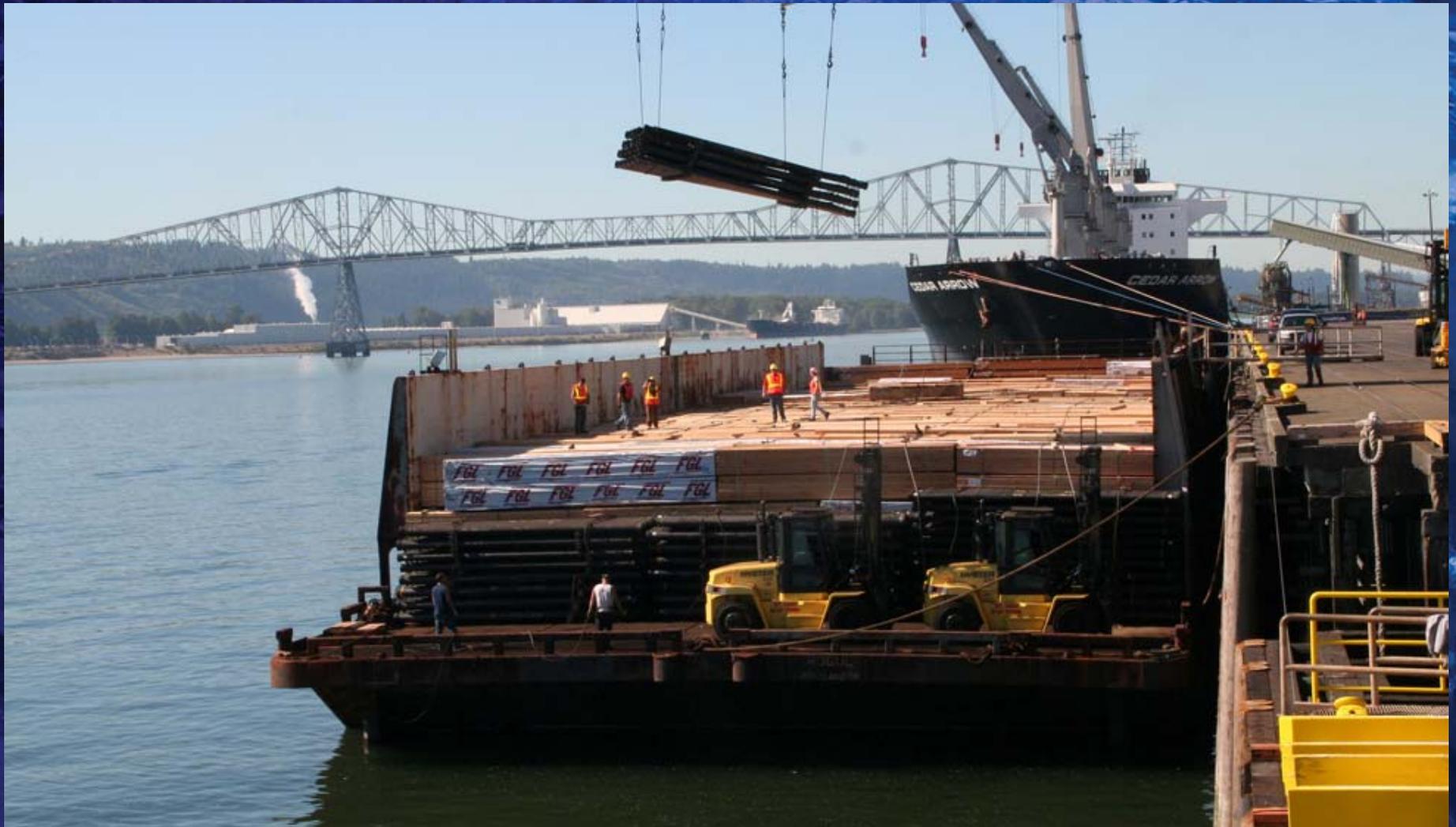
photo courtesy of the Port of Wilma

Wood Chips

Longview Fibre, Washington



Lower Columbia River Port Port of Longview, Washington



Lower Columbia River Port Aerial View - Port of Longview, Washington



Issues

- Snake River navigation
- Lower Columbia River channel deepening
- Mouth of the Columbia River jetty repairs

Snake River Dams



Map courtesy of the Columbian

Lower Columbia River Channel Deepening

Larger ships entering world trade



photo courtesy of the Port of Portland

The Evolution of Container Ships

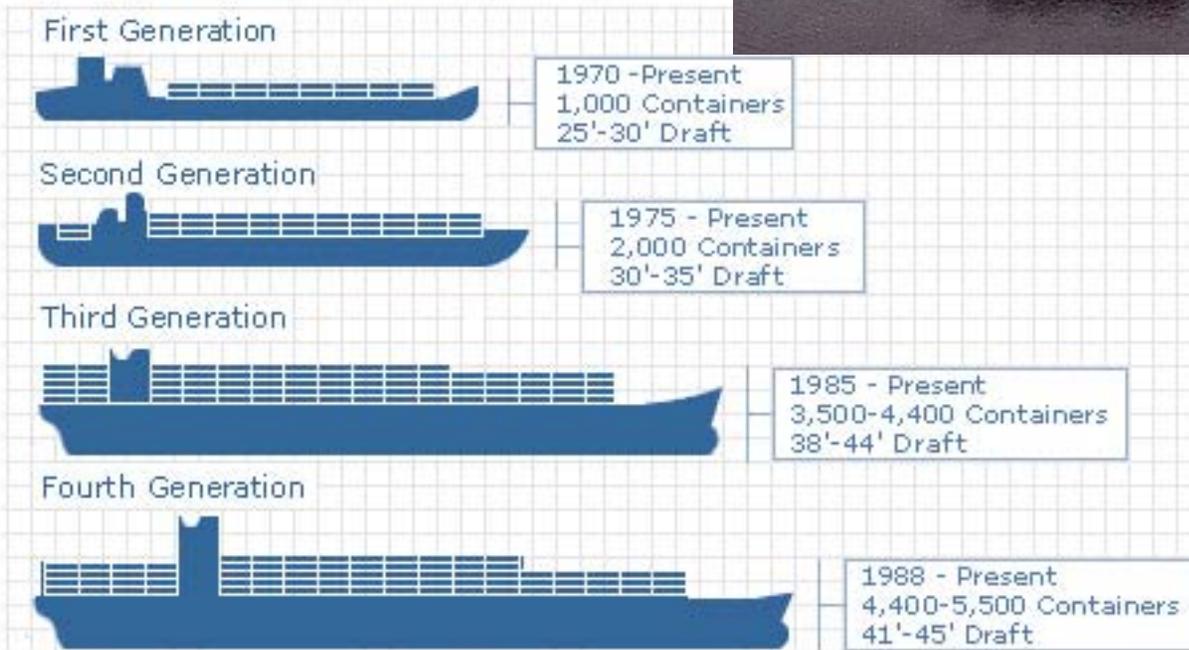


illustration courtesy of the Columbia River Channel Coalition

Lower Columbia River Channel Deepening

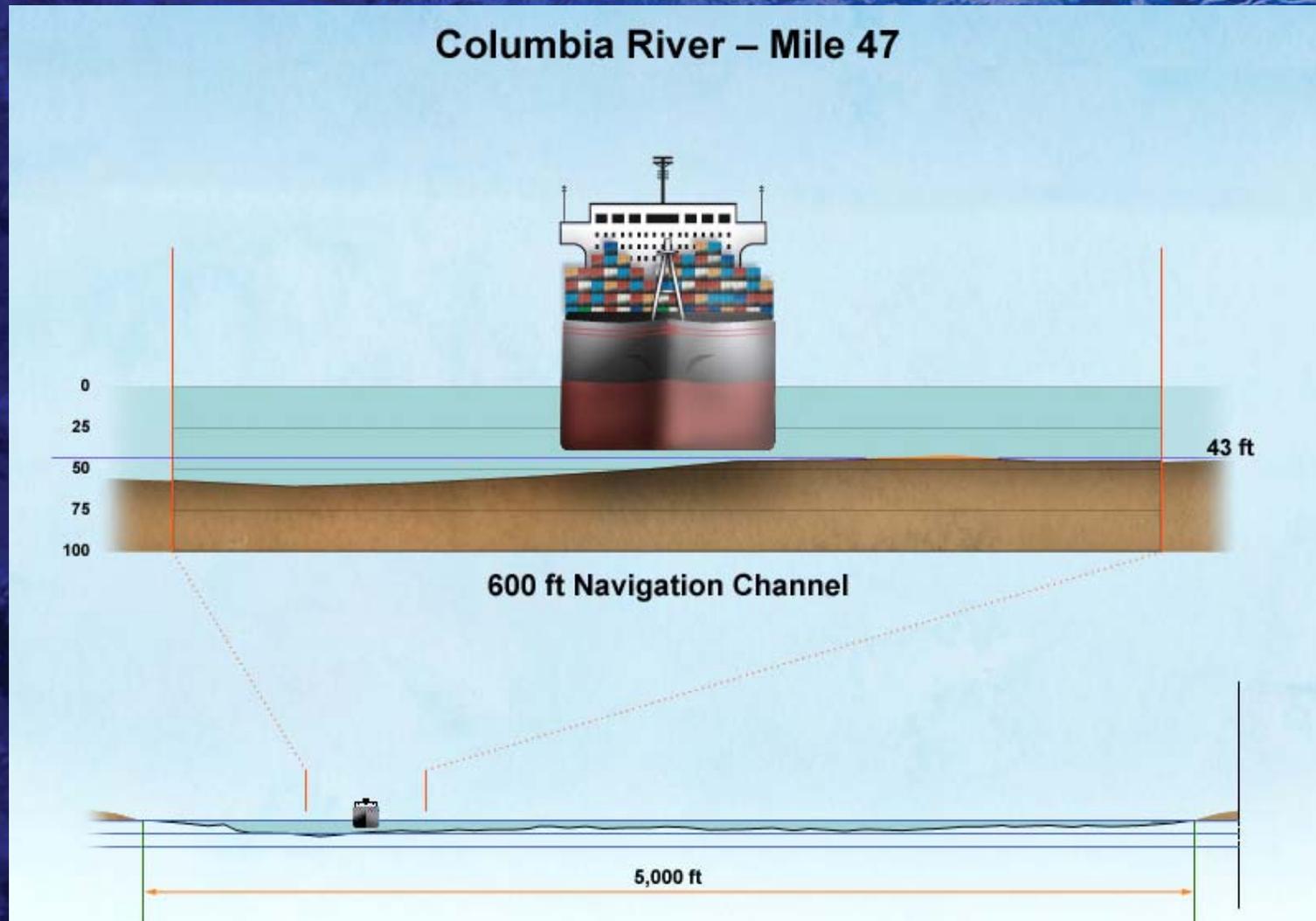


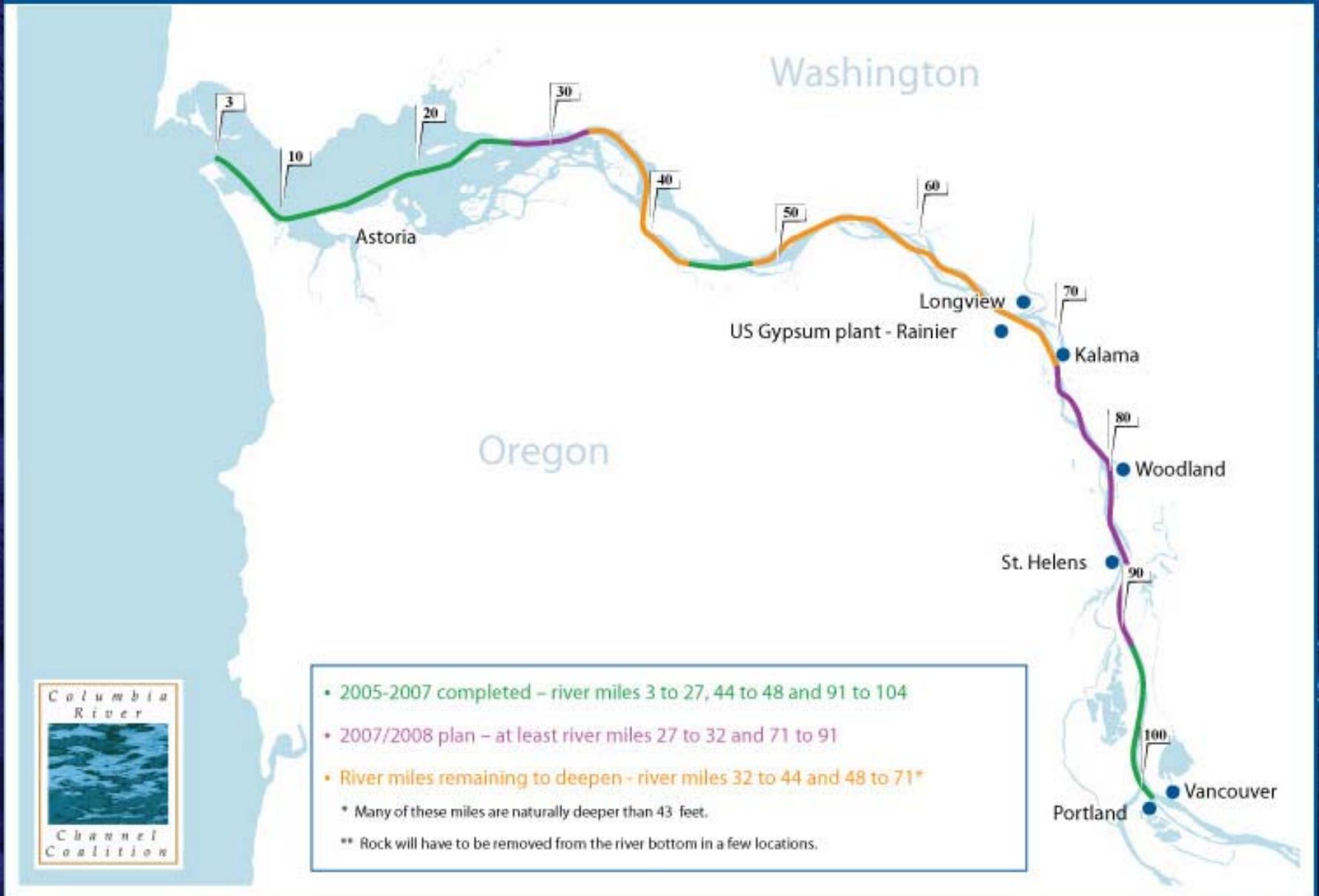
illustration courtesy of the Port of Portland

Lower Columbia River Channel Deepening



photo courtesy of the Pacific Northwest Waterways

Progress of the Columbia River Channel Deepening Project



April 2007

illustration courtesy of the Port of Portland

Mouth of the Columbia River Jetty Repairs



photo courtesy of the Pacific Northwest Waterways

Mouth of the Columbia River Jetty Repairs

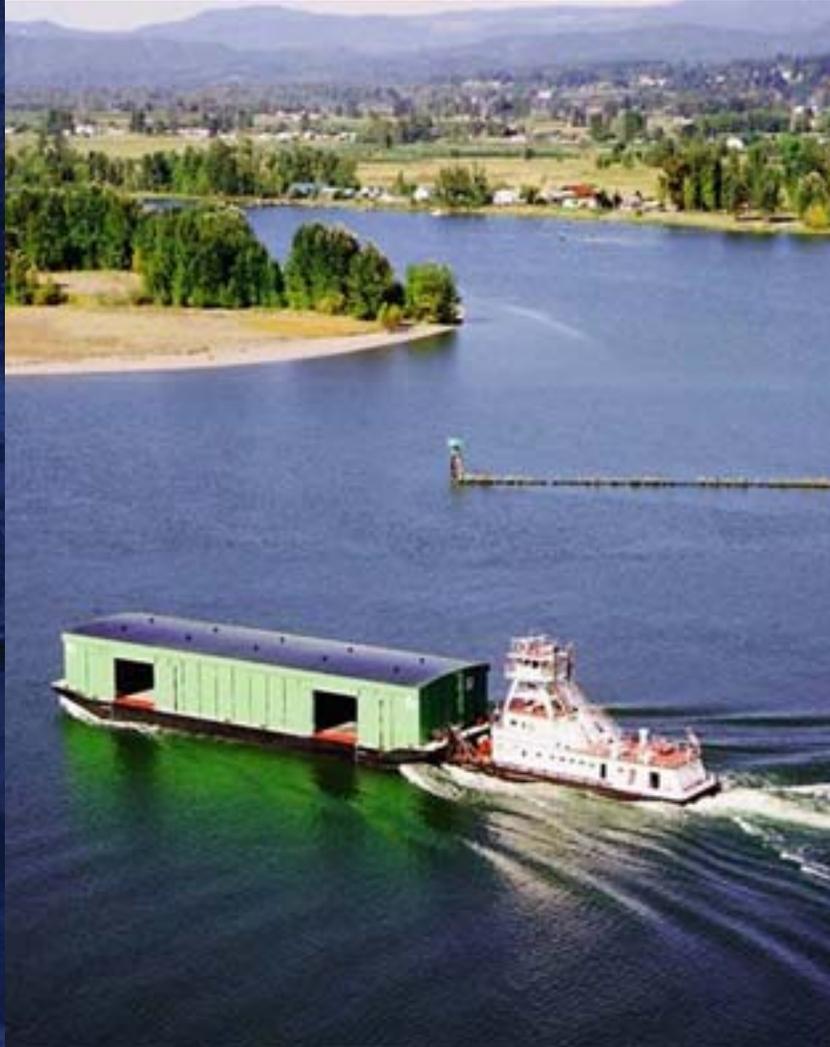


photo courtesy of the Pacific Northwest Waterways



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Thank You



Photos courtesy of Tidewater