# The Corps of Engineers Dredges on the West Coast

Presented To California Marine Affairs and Navigation Conference

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US Army Corps of Engineers BUILDING STRONG®



# AVERY OF THE CORPS MINIMUM DREDGE FLEET



Portland District Moorings, Circa 1937

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### Dredge BIDDLE – Retired 1983



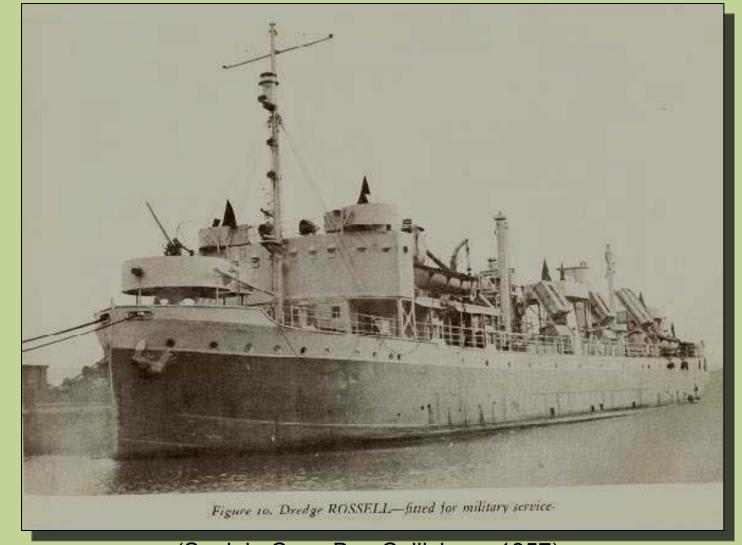
### Dredge McKENZIE – Sunk 1974





#### **PORTLAND DISTRICT**

### Dredge ROSSELL – Fitted for Military Service



(Sunk in Coos Bay Collision – 1957)

### Dredge CHESTER HARDING – Retired 1983



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# Public Law 95-269 April 26, 1978

"The Secretary shall have dredging and related work done by contract if he determines private industry has the capability to do such work and it can be done at reasonable prices and in a timely manner"



# Public Law 95-269 April 26, 1978

"To carry out emergency and national defense work the Secretary shall retain only the minimum federally owned fleet capable of perform such work and he my exempt from the provisions of this section such amount of work as he determines to be reasonably necessary to keep such fleet fully operational "



### Government Minimum Fleet Composition 1983 to Present

Vessel	District	Homeport	Туре	
FRY	Wilmington	Wilmington, NC	Sidecaster	
GOETZ	St. Paul	Fountain City, WS	Cutterhead	
HURLEY	Memphis	Memphis, TN	Dustpan	
JADWIN	Vicksburg	Vicksburg, MS	Dustpan	
McFARLAND	Philadelphia	Philadelphia, PA	Medium Hopper	
MERRITT*	Wilmington	Wilmington, NC	Sidecaster	
POTTER	St. Louis	St. Louis, MO	Dustpan	
WHEELER	New Orleans	New Orleans, LA	Large Hopper	
ESSAYONS	Portland	Portland, OR	Medium Hopper	
YAQUINA	Portland	Portland, OR	Small Hopper	

\* To be replace by MURDEN

# McFARLAND – Philadelphia District

Built 1967 Capacity: 3140 CY Crew Compliment: 50 Pump Ashore Side Cast Bottom Dump



### In Ready Reserve since 2008

## WHEELER – New Orleans District

Built: 1981 Capacity: 8256 CY Crew Compliment: 38 (1 full crew; 1skeleton) Bottom Dump



In Ready Reserve since 1997

## Dredge ESSAYONS – Portland District

Built: 1983 Capacity: 6000 CY Crew Compliment : 44



Bottom Dump Pump Ashore (deactivated) Repowered 2007 - 2008

## Dredge YAQUINA – Portland District

Built: 1981 Capacity: 1050 CY Crew Compliment: 40

Bottom Dump Side Cast (deactivated)



## Repowered: 2008-20012

### **Govt Fleet Defense Design Considerations**

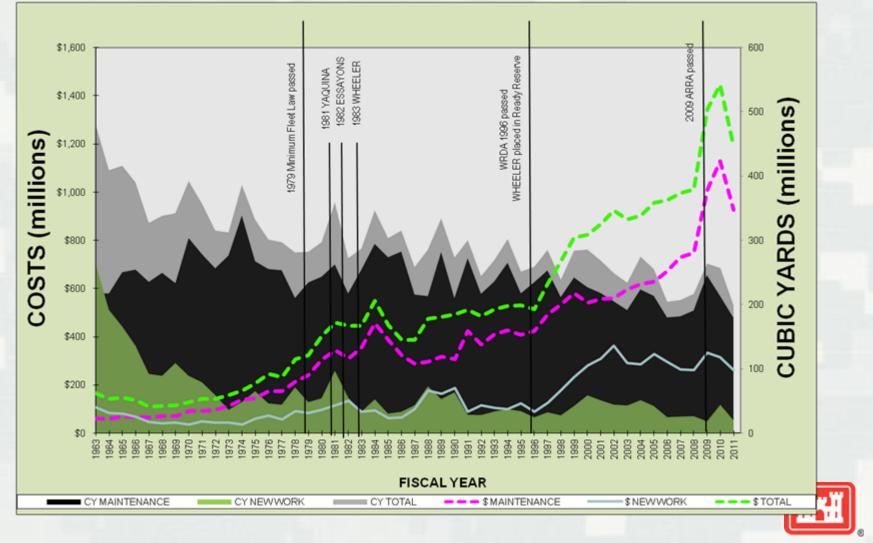


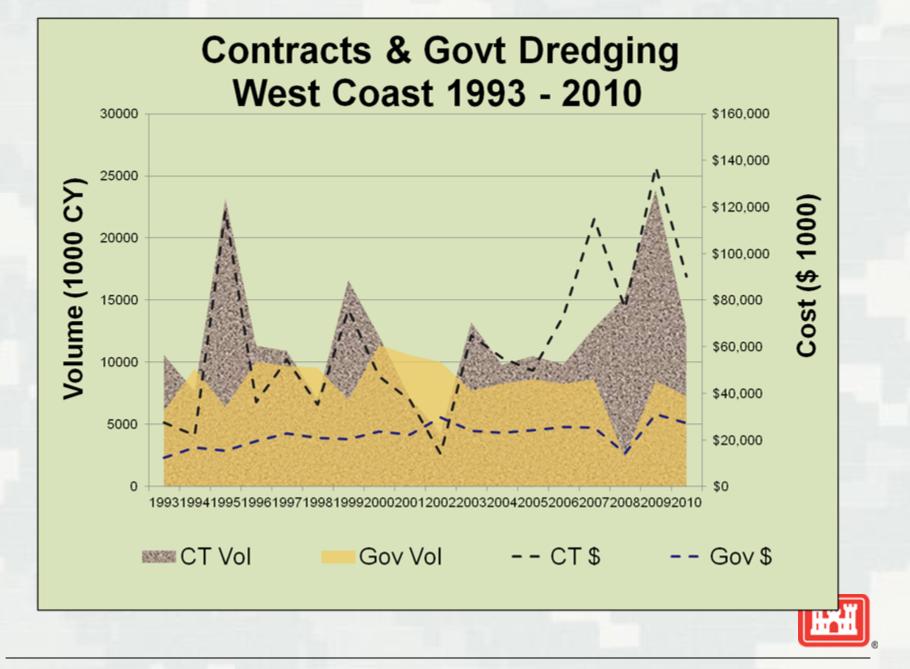
# Public Law 95-269 April 26, 1978

" As private industry reasonably demonstrates its capability ... to perform the work done by the federally owned fleet, at reasonable prices and in a timely manner, the federally owned fleet shall be reduced in an orderly manner, as determined by the Secretary by retirement of plant "



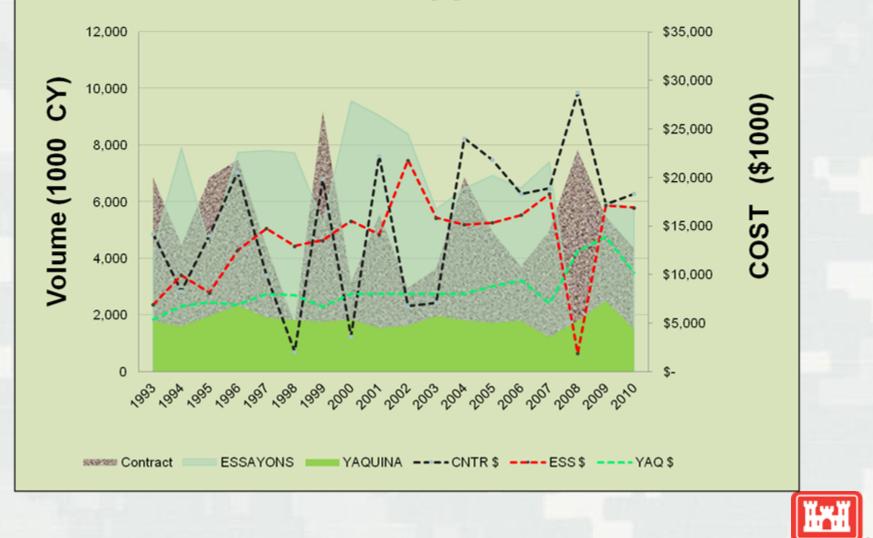
### National USACE & Contract Dredging Totals 1963-2011





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### West Coast Hopper 93 - 10



PORTLAND DISTRICT

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### NORTH PACIFIC DREDGING CONDITIONS





#### **PORTLAND DISTRICT**

### NORTH PACIFIC DREDGING CONDITIONS





#### **PORTLAND DISTRICT**

#### Dredge YAQUINA – August 2011



*"Backing Down"* in the Chetco River Entrance Due to Tsunami Damage at the Port of Brookings Harbor



## Dredge ESSAYONS





### FY 2008 ESSAYONS REPOWER



#### Don't Try This At Home

### FY 2008 ESSAYONS REPOWER



New Tier II CAT Engine being rigged into the engine room



# Setting the Daily Rental Rate

#### **Ownership Costs**

- Depreciation (straight line)
- Insurance
- Plant Increment CPI plus shipbuilders index
  - Original Cost of Assets
  - Additions and Betterments
- Ownership costs are paid to a national fund - PRIP

#### **Operating Costs**

- Labor (Full Time Employees)
- Benefits
- Fuel, Oil, Lubricants
- Subsistence and Supplies
- Repairs
- Distributed cost of Moorings, Warehouse, IT, Gen Overhead
- Crew Training, Licensing, Hiring Costs, etc



# **Daily Rate Calculations**

All known Ownership and Operating Costs + very small contingency<sup>1</sup>

#### Daily Rental Rate =

The number of days we expect we will work (estimated with other districts during budget submission 2 years ago)<sup>2</sup>

<sup>1</sup> Based on average dredging conditions, known anomalies

<sup>2</sup> Based on Project Needs, funding priorities, budget constraints



# West Coast Govt Hopper Dredge Rates

Dredge ESSAYONS

Dredge YAQUINA

FY 2012: \$100K/ day

FY 2012: \$61K / day

FY 2013: \$ 113K/ day

FY 2013: \$85K/ day

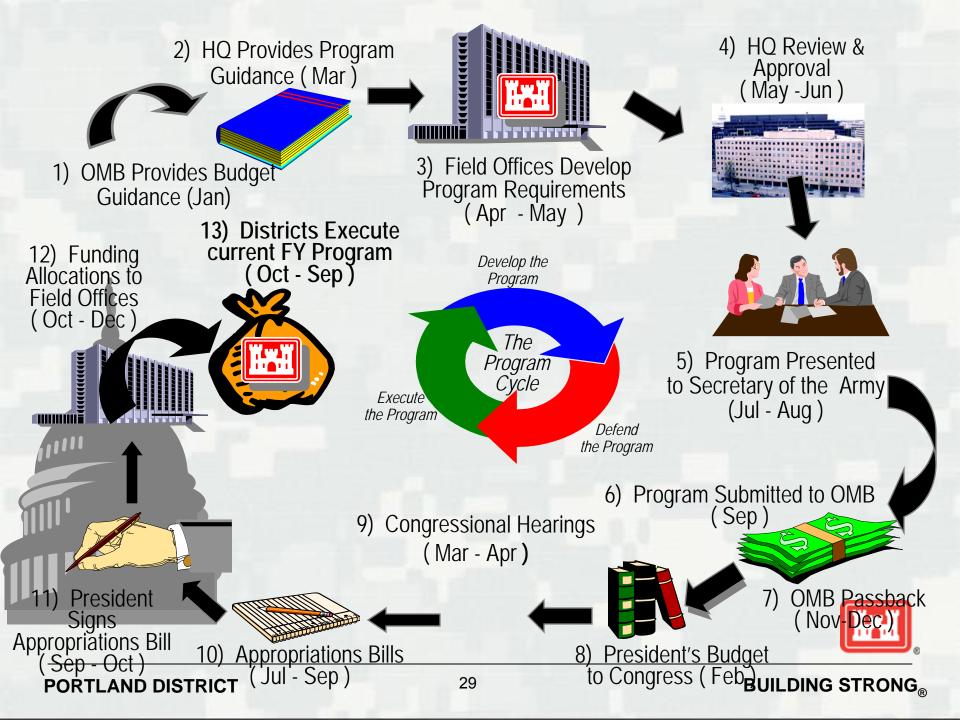


### It's Even Worse than That ...

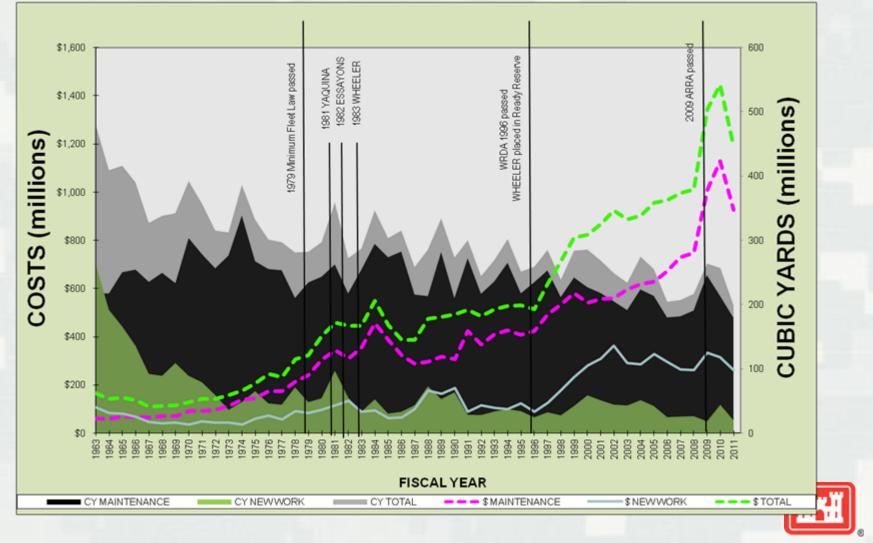


### We're All in the SAME BOAT





### National USACE & Contract Dredging Totals 1963-2011



**PORTLAND DISTRICT** 

# Navigation Funding – Pres Bud (\$million)

Pres Bud	Coastal	Inland	Nav	CW total	% Nav
FY 12	\$832	\$743	\$1,575	\$4,631	34
FY 11	\$878	\$780	\$1,658	\$4,939	34
FY 10	\$971	\$796	\$1,767	\$5,125	35
FY 09	\$969	\$931	\$1,900	\$4,741	40
FY 08	\$957	\$1,052	\$2,009	\$4,871	41

Trend is declining funds Navigation down 22% since FY 08. Reductions masked by ARRA funding in FY09 and FY10 Flood Risk Management increasing due to Dam Safety Environmental Restoration increasing



# **Questions?**

### Dredge YAQUINA at Morro Bay California

