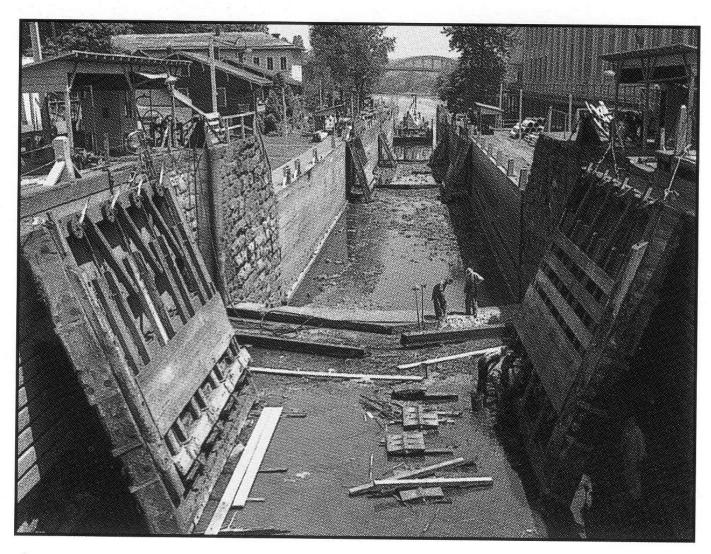


1941 Lock Renovation



As part of the 1940s restoration, the original wooden lock gates were replaced with metal gates.



Spruce Goose Wings entering the West Linn, Oregon Locks in 1993.

Printed on paper Manufactured at the West Linn Paper Mill in 2004

Cargo Capacities Compared by Mode				
	BARGE	RAIL CAR	TRUCK TRAILER	
Tons	1,500	100	25	
Bushels	52,500	3,500	875	
Gallons	453,600	30, 240	7,560	

Figure 3: Cargo Capacities Compared by Mode¹⁰

Emissions Compared by Mode (in pounds per 1 ton of cargo moved 1000 miles)				
	BARGE	RAIL CAR	TRUCK TRAILER	
Hydrocarbons	0.09	0.46	0.63	
Carbon Monoxide	0.2	0.64	1.9	
Nitrous Oxide	0.53	1.83	10.17	

Figure 4: Emissions Compared by Mode

R	elative Energy Effici	encies
(number of mi	les one ton can trave	el per gallon of fuel)
BARGE	RAIL CAR	TRUCK TRAILER
514	202	59

Figure 5: Relative Energy Efficiencies

Comparison of Cargo in Pounds per Horsepower			
BARGE	RAIL CAR	TRUCK TRAILER	
10,700	4,500	300	

Figure 6: Comparison of Cargo in Pounds per Horsepower

