## An Historical Geography of NYS Settlement Sequence II

### **CANAL ERA** 1815-1855

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### **Canals of NYS**

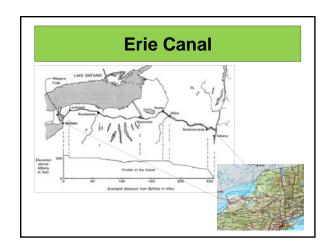
Exercise 13 (extra credit) looks at the site and situation of canals built in NYS during the "Canal Era."

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### The Erie Canal

- Gov. DeWitt Clinton persuaded the NYS Legislature to fund the building of a canal to link the Hudson River with Lake Erie.
- The Erie Canal was constructed between 1817 and 1825.
- -First segment was from Rome to Seneca (easiest digging).
  - -East and west ends required technology.
- Canal diggers were mainly immigrants from ships arriving in NYC. (Most settled in NYS along the canal.)

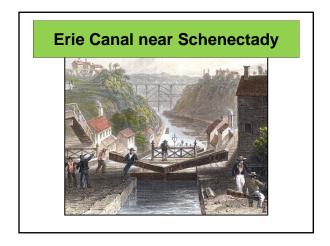
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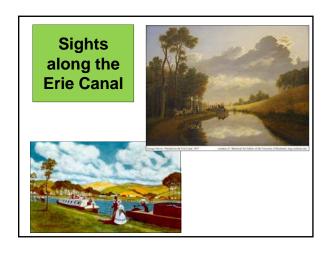


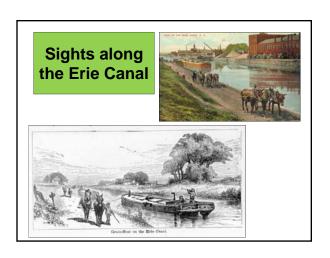
### **Erie Canal**

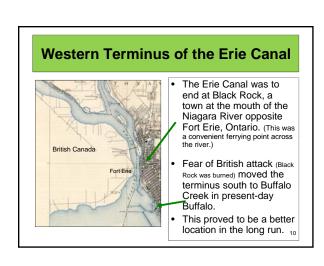
- Built between Buffalo and Albany at a cost of \$8 million.
- Provided an all-water route between New York City and the Great Lakes, greatly expanding NYC's hinterland.
- For a ton of goods, it reduced NYC-Buffalo hauling time from 26 days to 6 days, and the cost from \$100 to \$10.
- The canal was 40 feet wide and 4 feet deep.
- Boats were pulled by horses/mules walking on adjacent towpaths.
- NYC became the gateway to the West. It's population doubled between 1820 and 1840.

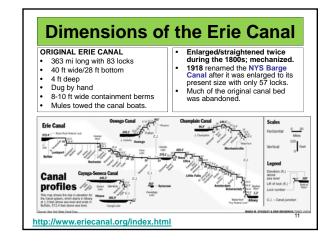
# Canal Cross-section TYPICAL CROSS SECTIONS OF ERIF CANAL PRIEM OPERINAL CANAL ENLARGEMENT OF 1862 SECTIONS OF ERIF CANAL PRIEM OPERINAL CANAL ARCCOMMENSES ENLARGEMENT 1155 1156 1157

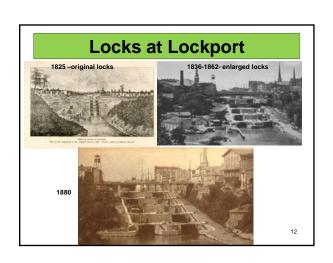












### **Lockport Today: 2 locks**









### **Canal Lock**

A lock is used to raise and lower water in sections of the canal. Original lock operations were gravity-flow. Today pumps speed the process.



### The Erie Canal

- It provided an all water link between the Atlantic Ocean and the Great Lakes.
- Cut travel time from NYC to Buffalo from 20 days to 8 days.
- Cut cost of freight from \$120/ton to \$5/ton reducing the price of food and lumber.
- By 1840 NYC handled more tonnage than all other major US ports combined.

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### **The Erie Canal**

- · Instigated national canal-building mania.
- Cities developed along its route (1850 census saw 75% of NYS population living within 10 mi of it).
- Because of its success, it had to be enlarged several times to handle heavier cargo and larger barges.
- Speeded the development of the railroads which needed level land and commercial centers (freight terminals).

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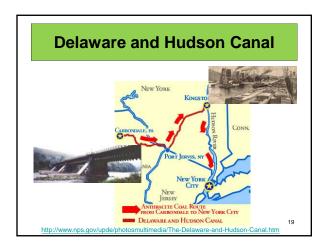
## Canals of NYS The Richelieu River was canalized to connect the St. Lawrence River with Lake Champlain. The Delaware & Hudson connected the coal fields of Pennsylvania with the Hudson River.

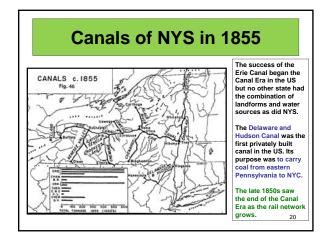
### **Delaware & Hudson Canal System**



- Built 1825-1829.
- First canal privately financed in US.
- Connected Wilkes Barre, PA with Kingston, NY.
- Consisted of a 108 mi long canal with 108 locks + 16 mi of gravity railroad.

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### **Settlement Sequence 1780-1865**

Why was this period's settlement pattern important?

- End of period saw the imprint of the basic population distribution pattern.
- Focal points of higher population densities developed.
- These focal points became links in the modern transportation system



(major roads "called turnpikes" >> canals >> railroads).

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