Ohio Canals

by
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Teacher Guide
OEAGLS Investigation #15

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TEACHER GUIDE
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OHIO CANALS

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OVERVIEW

Using a map of the drainage system of Ohio and a knowledge of the location of principal population centers in the 1800s, students determine the preferable location of two of Ohio's canal systems. In the second activity they use data on population growth and commodities produced in certain locations in the state to determine the effects of the canals upon population growth and commerce.

PREREQUISITE STUDENT BACKGROUND

Students should be able to read a map showing the principal rivers and streams of Ohio. They should also understand percentage and the meaning of percent change in a variable such as population.

MATERIALS: The following will be needed by each group of students

1. A copy of the map entitled Principal Streams in Ohio. This is available from the Division of Water, Ohio Department of Natural Resources, Fountain Square, Columbus, OH 43224. For use in the investigation the map will need to be covered with a sheet of plastic. Some schools have laminating machines available that will coat maps with plastic.

2. Six different colors of marking pens that use water soluble ink. These can be shared among groups to reduce the total number of pens.

You should also make available to the class, after completion of Activity A, a copy of a map of the canal routes in Ohio. One is included as Appendix A in this Teacher Guide. A map of the United States should be available to the class.

OBJECTIVES: When the students have finished this investigation they will be able to

1. Tell the reasons for the location of the two major canals in Ohio
2. Discuss the flow of products along the canals and into the nation's market
3. Explain the impact of the canals on Ohio's economy and population.

SUGGESTED APPROACH

Students can work individually on this activity if there are enough materials available. Otherwise, they should work in groups of two.

The activity could be followed by a showing of filmstrips from the set Ohio's Canal Era. Cinemark Productions, 1761 Karg Drive, Akron, OH 44313. Part One deals with the overall history of the Ohio canal system and how it affected the growth of Ohio's population and economy. Part Two explores the route of the Ohio-Erie canal and its effect on various cities along its route. Part Three provides a similar treatment for the Miami-Erie Canal.

There are many sites around Ohio where portions of the old canals can be found and where the remnants of lock systems can be observed. There are restorations at Roscoe Village and Piqua. Any of these locations can be an interesting field trip for students after they have studied this investigation.
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INTRODUCTION

The population of Ohio reached over 600,000 in the early 1800s, yet the state remained one of the poorest in the Union. Ohio was primarily an agricultural state. Its farmers lacked good ways of getting products to the East where the major population centers of the young nation were located. In 1825, a barrel of flour sold in Ohio brought $1.95. In New York City, the same barrel of flour was worth $8.00. For Ohio's economy to prosper, a way had to be found to deliver the agricultural goods to cities such as New York.

The completion of the Erie Canal through New York State in 1824 provided the towns along Lake Erie such as Buffalo, New York, and Cleveland, Ohio, with a way to move their products to the East. But how could produce from the interior part of Ohio be transported north to the lake? Ideas for a canal to link Cleveland with Columbus, the state capital, and with Portsmouth on the Ohio River, began to materialize. People in other areas of the state wanted canals also. If a canal were available, it would cost the farmer $1.80 to ship that barrel of flour to New York. This would provide an increase in profit of over $4.00. No wonder there was such interest in digging canals in Ohio.

How were the routes for the canals determined? What effect did they have upon the economy of Ohio and on the towns along their paths?

OBJECTIVES: When you have finished this investigation you will be able to:

1. Tell the reasons for the location of the two major canals in Ohio.
2. Discuss the flow of products along the canals and into the nation's markets.
3. Describe the impact of the canals on Ohio's economy and population.

ACTIVITY A: HOW WERE THE CANAL ROUTES DETERMINED?

MATERIALS: One laminated copy of the map entitled "Principal Streams in Ohio," published by the Ohio Division of Water, two different colors of washable marker pens.

PROCEDURE:

Two reasons were most important in locating the canals in Ohio. First, canals had to serve the largest population and industrial centers. Second, they had to take advantage of natural waterways such as streams. Following streams helped to reduce the amount of digging, since streams go around hills and usually have gentle slopes. They also guaranteed a supply of water for the canal. The first canal completed was the Ohio & Erie. It served the population centers of Cleveland, Columbus, and Portsmouth.

The Ohio Coat of Arms
1804
1. Using your marker pen, trace out what you think would be the best route for the Ohio-Erie Canal. On your worksheet, write down your reasons for choosing this route.

2. The Miami-Erie Canal was to serve the cities of Toledo, Dayton and Cincinnati. Trace out a route for the Miami-Erie Canal. Write down your reasons for choosing that route.

3. Your teacher will provide you with a map of the actual canal routes. Using a different color of pen, trace out the actual routes followed by the two canals. Also, trace the routes of other canals constructed in Ohio.

4. Where do your routes differ from those actually chosen by the canal builders?

Examine your map in these regions. Can you think of any reasons why the canal builders chose routes other than those you chose?

A drainage divide is high land that separates the areas drained by two different streams or rivers.

5. Locate Lake St. Marys and Buckeye Lake. Both are reservoirs built at the time of the canals. Note their location and the location of the drainage divides. Why do you think these two lakes were built?

The drainage divide will be located between the tips of the smallest tributaries of the two major streams or rivers.

Lake St. Marys and Buckeye Lake were built to supply water to locks that lifted canal boats over drainage divides.

6. There are other lakes along the route of the canals that served the same purpose. Name some of them.

Lake Lorain, Lake Logan, Guifford Lake, Lake Rockwell, and other lakes are all possible water supply reservoirs. However, most of the lakes designated on the map as water reservoirs have been developed since the canal era. Their principal roles are flood prevention and water supply for municipalities.

7. At what types of places do you think the canal builders had the greatest difficulty in building the canals? Why?

Areas of high relief at the drainage divides were particularly difficult. They required many locks. For example, there were eleven locks built through Akron to lift the boats from the Cuyahoga drainage basin into the Muskingum River Basin.
ACTIVITY B: HOW DID THE CANALS AFFECT OHIO?

Using data on population growth and economic activity of selected cities, students study the possible effects of the canals on these same cities. Before starting this part of the activity, have students erase the canal routes on their maps, keeping only the correct ones — those that they drew in for Step 3 of Activity A.

MATERIALS: The map used in Activity A, four additional markers and a map of the United States.

PROCEDURE

Because the canals made it easier for people to travel and ship materials, they had an effect upon many of the cities in Ohio. Figure 1 lists percentage of population increases during 10-year time-spans for several of Ohio’s cities. For example, the population of Chillicothe increased by 79% during the decade 1840-1850. At the bottom of Figure 1 are several events that happened during particular decades.

Find each of the cities on your map of Ohio. Were any located on canals? If so, which ones? Are any located on Lake Erie or the Ohio River?

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**EVENTS**

- Erie Canal in New York
- Main Canal complete
- Ohio-Erie Canal complete in 1832
- North Part of Main Erie Canal complete
- Railroads widespread in Ohio by 1860

**Figure 1. Population Growth of Certain Ohio Cities.**

Examine the population changes for each of the cities (Figure 1). Then answer the following questions on your worksheet:

1. What reasons can you think of for the way Chillicothe grew between 1820 and 1860?
1. Mansfield is located some distance from a canal; therefore, although its population showed a rapid growth in 1840-1850, this growth could have been only indirectly affected by the canals.

An extension from the Ohio-Erie Canal was completed along the Muskingum River to Marietta in 1841. It was probably responsible for the spur in population in Marietta during that decade. Its population growth then leveled off, especially after the development of railroads which tended to bypass Marietta.

2. Did the opening of the Ohio-Erie canal seem to have any effect upon the population growth of Cleveland? Explain.

3. During what period of time did Columbus grow most rapidly? What might have caused this growth?

4. Could the canals have had any effect upon the growth of either Mansfield or Marietta? Discuss.

5. Describe the growth of Cincinnati. Does it seem to be related to the canals? Discuss. Which of these might have affected any of the cities above?

6. Cincinnati grew tremendously from 1820-1850, especially in the decade 1840-1850, when the northern part of the Miami-Erie Canal opened and Great Lakes traffic could get to Cincinnati. After 1850, there was a decline in growth rate possibly due to the expansion of the railroads.

Because canals eased the movement of products from place to place, certain cities were able to specialize in types of products. This increased the dependence of cities upon each other. Raw materials would be produced at one place along the canal. They would be taken to another city to be used in manufacturing. The canals also allowed products to be shipped to other states and even to foreign countries.

Figure 2 lists four cities and the products they specialized in during the 1825-50 period.

7. There are many things other than the opening of transportation routes that could affect the growth of cities. Can you think of any? List them on your worksheet.

8. The purpose of this question is to cause the students to think more deeply about the causes of population change. Some may be local, such as a disaster. Others may be related to natural features — the development of a new resource, such as coal mining or oil production. There are no correct answers. Accept any that seem to be reasonable. Encourage students to think creatively about the question.
Cincinnati | Cleveland | Troy | New Philadelphia
--- | --- | --- | ---
pork packing | beer | lumber | wood
container-making | iron machinery | hogs | grain
clothing | flour | grain | meat & dairy products
liquor | ship-building | | |

**Figure 2.** Products of Ohio Cities during 1825-1850.

7. Locate Cincinnati and Troy on the Miami-Erie Canal. Draw arrows along the canal from Cincinnati in the direction that its products might move. Use a different colored pencil and do the same for Troy.

**T7.** Cincinnati would send products up the canal toward Troy, as well as downstream on the Ohio. Troy could send products both to Cincinnati and to Toledo.

8. In what ways might the lumber shipped from Troy be used in Cincinnati?

**T8.** It was certainly used in the containers made in Cincinnati, especially barrels. It would also be used for building and many other purposes.

9. Where else do you think Cincinnati’s products might have been sent? Use a map of the U.S. to answer this question. Describe the route that might be taken by these products.

**T9.** Cincinnati’s materials could move up the canal to the Great Lakes system and out to the Atlantic sea coast. Even before the canal opened they could move on the Ohio River, downstream to the Mississippi and New Orleans. New Orleans was the major market for Ohio goods in the early 1800s, but prices paid there were low. Since the Ohio merchants could not return goods upstream, they were forced to accept these low prices. The canal was a real boon to Cincinnati, the Pork Capital of the World, since it opened up the markets on the Atlantic seaboard.


**T10.** Cleveland could send products down the canal as well as both ways on Lake Erie. New Philadelphia probably sent most of its products toward Cleveland.

11. What were some of the uses made of grain that was shipped from New Philadelphia to Cleveland?

**T11.** The grain would be used to make the beer and flour.

12. Where else do you think Cleveland’s products might have been shipped? Again use the map of the U.S. Describe the route that might be taken by these products.

**T12.** With the opening of the Erie Canal, Cleveland’s products could go east along it through New York State to the Atlantic coast.

13. Of the four cities in Figure 2, which two manufactured materials? Which two cities produced materials used in manufacturing?

**T13.** The canal permitted the shipment of hogs from Troy to Cincinnati for slaughter and packing. Grain could be shipped to Cincinnati for use in making liquor. New Philadelphia could supply Cleveland with wood for use in manufactured goods and farm products for food. The processed materials could, of course, flow back to the points of origin. In this way, cities began to specialize in the types of products that they provided within the economy of Ohio. This gave birth to the great manufacturing centers of Cincinnati, Cleveland, Toledo, Akron and Dayton.
REVIEW QUESTIONS

1. List the major towns connected by the Ohio-Erie Canal, the Miami-Erie Canal.

   R1. The Ohio-Erie and its feeder canals connected Cleveland, Akron, Newark, Columbus and Portsmouth. The Miami-Erie connected Toledo, Dayton and Cincinnati.

2. What major reasons were used for locating the canals?

   R2. Topography, bedrock, availability of water and the location of population centers influenced the location of the canals.

3. How did the canals affect the population growth of certain cities?

   R3. Generally those cities located on the canals grew rapidly after the canals reached them.

4. Explain how the canals lead to specialization of the products supplied by different areas or towns in Ohio.

   R4. By permitting rapid movement of raw materials, certain cities could specialize in the processing of certain raw material, while others processed different materials.

5. How did the canals tie Ohio towns into world markets?

   R5. They tied towns into the Ohio and Mississippi river systems and into the Erie Canal system.

BACKGROUND INFORMATION

The growth of cities in Ohio has from the beginning been linked with the accessibility of transportation. By 1820, Cincinnati was the largest city in Ohio. The next largest cities were situated along a roadway called Zane’s Trace (Figure TG 1). In the ensuing decade, cities along the Scioto, Miami and Mad Rivers began to grow as a result of the increased use of these rivers for transportation (Figure TG 2). State routes developed outward from these major cities.

The building of the canals in Ohio in the 1830s and 1840s significantly altered the growth patterns of various Ohio cities. The latter half of the 19th century, however, was dominated by railroads. Railroads were originally built to reach areas not reachable by the canals, but it became apparent that railroads could favorably compete with the canals. Toledo became a major railroad center and also became the third largest Ohio city by 1900. Along with railroad development was industrialization. The rise in importance of the truck and automobile led to the development of the modern highway systems and patterns of growth that we experience today.

As the boats moved slowly along the canals, the canalers spent much of their time singing. Some of these songs have been preserved. They tell much about canal life, such as the one entitled "The Old Canal." You might encourage some of your more musically inclined students to sing this ballad to the class. One song from the Ohio Historical Society publication titled Scenes and Songs of the Ohio-Erie Canal is included on page 7.

Figure TG 2. Population of Selected Ohio Cities, 1930.
THE OLD CANAL

My dear friend was forty feet from bank to bank, you know.
Twenty-six at bottom, depth not less than four.
Two feet above the water line, and never more than five.
Ten feet, ten feet wide, six inches draft, so very
Two feet on the lower side of channel, outward pitch.
Cleat six feet, all twenty, dear Pal.
Thus making safe our every move from whatever came.
We had elbow room along the Old Canal.

The locks were fifteen in the clear and ninety foot in length.
Six to twelve foot lift, you’ll find this all along.
The boats were most beautiful, so fairy-like, you know.
How they’d blend and serenade in sweetest song!
Our boats, fourteen by eighty feet and eighty tons their load.
But no people had such times as we, dear Pal.
Our fairy palaces were so charming everywhere we went.
In those matchless days upon the Old Canal.

And now whenever I hear someone reproach or speak unkind
Of this grand old aisle, I know they’re not informed.
For behold the towns and cities that are standing on his shoes.
Were it not for him they never would be burned.

He’s made civilization on this vast and splendid canal.

Those famous days were pleasant and in fancy I reflect.
See her boats and packet trains, thousand and more.
Her shippards, drydocks, warehouses, and many other things
That were needed, all were-standing on her shores.
I knew my love for her in turn; God grant it never shall change!
For most pleasant in her memory, O Pal.

When I think of these, I feel in heart for evermore.
On the shore of my dear friend, the Old Canal.

These stanzas are selected from the 80 stanzas of the song which describes the canal from the northern end to the southern. There is some comment about virtually every town, lock, store, mill, or mine along the way. Captain Nye considered this song his “Masterpiece.” There is a wealth of information in it.

From Scenes and Songs of the Ohio-Erie Canal, Ohio Historical Society.
REFERENCES
Ohio Historical Society, Canals of Ohio: a leaflet and map available from the Society, Columbus, Ohio 43221.
The Big Ditch, Jim Baker's Historical Handbook Series available from the Ohio Historical Society, an illustrated history of the Ohio Canals.
The Ohio Historical Society, Scenes and Songs of the Ohio-Erie Canal: pictures and descriptions of various aspects of the canals and several songs that were sung on the canal boats, available from the Society.

5. Which of the following cities were connected by the Miami-Erie Canal?
   1. Toledo, Dayton and Cincinnati.
   2. Cleveland, Columbus and Portsmouth.
   3. Toledo, Columbus and Cleveland.
   4. Dayton, Cincinnati and Akron.

6. During the 1840-1850 decade, Cincinnati experienced a population increase of about 150%. One reason for this growth in population was:
   1. People along the Ohio River were evacuated to Cincinnati.
   2. The railroads were connected from Cincinnati to St. Louis.
   3. The Miami-Erie Canal was completed.
   4. Many people moved out of New York to Ohio.

7. The canal system helped the people of the cities along the canal to ship their products to:
   1. The other cities along the canal
   2. Other states
   3. Foreign countries
   4. All of the above.

8. After 1860, the use of canals in Ohio began to decline. The major reason for this was:
   1. The Civil War.
   2. The expansion of railroads.
   3. A drought that caused the water in the canals to disappear.

9. A number of large reservoirs, such as Buckeye Lake, were constructed along each of the canals. Their major purpose was to:
   1. Supply water for the canals.
   2. Provide "parking places" for canal boats.
   3. Provide drinking water for cities along the canal.
   4. Supply water power to industries located on the canals.

10. The opening of the canals changed industry in Ohio because:
    1. The easy movement of materials on the canals allowed towns and cities to specialize in certain industries.
    2. The canals provided industries with a place to dump liquid waste products, thereby reducing their costs of production.
    3. The canals provided a source of water power used by industry.
    4. The canals provided water to industries.

EVALUATION ITEMS
1. Why was the Ohio canal system built?
   1. To provide drinking water to towns in the interior of the state.
   2. To make easier the movement of people and products from place to place.
   3. To allow fish to travel from Lake Erie into the interior of Ohio for use as a food source.
   4. Congress passed a law creating canals.

2. Before the canals were built, flour sold for $1.95 a barrel in Ohio and $3.00 in New York City. The reason for such a difference was:
   1. People in New York City used more flour so a higher price could be charged for it.
   2. The flour sold in New York City was a better type.
   3. Ohioans couldn't get their flour out of the state so they had to settle for a lower price.
   4. The people that lived in New York City were richer than Ohioans and could pay more for flour.

3. A major factor in determining the location of a canal was:
   1. The location of major highways
   2. Location of major cities
   3. Location of railroads
   4. None of the above.

4. Which of the following cities was not on the Ohio-Erie Canal?
   1. Cleveland
   2. Columbus
   3. Dayton
   4. Portsmouth
OHIO CANALS
WORKSHEET

ACTIVITY A: HOW WERE THE CANAL ROUTES DETERMINED?

1. Why did you choose the route you marked for the Ohio-Erie Canal? __________________________________________

2. Why did you choose the route you marked for the Miami-Erie Canal? _______________________________________

3. Follow directions and trace the actual routes of other canals constructed in Ohio.  

4. Where do the routes you marked differ from those actually chosen by the canal builders? ________________

   Why did the canal builders choose routes other than those you chose? _________________________________

5. Why do you think St. Mary’s and Buckeye Lakes were built? __________________________________________

6. Name some other lakes along the route. ___________________________________________________________

7. Where did the canal builders have the greatest difficulty in building the canals? _______________________

   Why? _______________________________________________________________________________________

ACTIVITY B: HOW DID THE CANALS AFFECT OHIO?

1. What reasons can you think of for the way Chillicothe grew between 1820 and 1860? ____________________

2. Did the opening of the Ohio-Erie canal seem to have any effect upon the population growth of Cleveland? 
   Explain. ________________________________________________________________

3. During what period of time did Columbus grow most rapidly? _______ Why? ______________________________

4. Could the canals have had any effect upon the growth of either Mansfield or Marietta? Discuss. ________

5. Describe the growth of Cincinnati. does it seem to be related to the canals? Discuss. _________________
6. What things other than the opening of transportation routes could affect the growth of cities? 

7. Follow directions.

8. In what ways might the lumber shipped from Troy be used in Cincinnati? 

9. Where else do you think Cincinnati's products might have been sent? Describe the route that might be taken by these products.

10. Follow directions.

11. What were some of the uses for grain that was shipped from New Philadelphia to Cleveland? 

12. Where else do you think Cleveland's products might have been shipped? Describe the route that might be taken by these products.

13. Of the four cities in Figure 2, which two manufactured materials? Which two cities produced materials used in manufacturing? 

Review Questions

1. List the major towns connected by the Ohio-Erie canal. And by the Miami-Erie canal. 

2. What major reasons were used for locating the canals? 

3. How did the canals affect the population growth of certain cities? 

4. Explain how the canals led to specialization of the products supplied by different areas or towns in Ohio. 

5. How did the canals tie Ohio towns into world markets?
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How were the routes for the canals determined? What effect did they have upon the economy of Ohio and of the towns along their paths?

OBJECTIVES: When you have finished this investigation you will be able to:

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2. Discuss the flow of products along the canals and into the nation's markets.

3. Describe the impact of the canals on Ohio's economy and population.

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MATERIALS: One laminated copy of the map entitled "Principal Streams in Ohio," published by the Ohio Division of Water; two different colors of washable marker pens.

PROCEDURE

Two reasons were most important in locating the canals in Ohio. First, canals had to serve the largest population and industrial centers. Second, they had to take advantage of natural waterways such as streams. Following streams helped to reduce the amount of digging, since streams go around hills and usually have gentle slopes. They also guaranteed a supply of water for the canal. The first canal completed was the Ohio-Erie. It served the population centers of Cleveland, Columbus and Portsmouth.
1. Using your marker pen, trace out what you think would be the best route for the Ohio-Erie Canal. On your worksheet, write down your reasons for choosing this route.

2. The Miami-Erie Canal was to serve the cities of Toledo, Dayton and Cincinnati. Trace out a route for the Miami-Erie Canal. Write down your reasons for choosing that route.

3. Your teacher will provide you with a map of the actual canal routes. Using a different color of pen, trace out the actual routes followed by the two canals. Also, trace the routes of other canals constructed in Ohio.

4. Where do your routes differ from those actually chosen by the canal builders?

Examine your map in these regions. Can you think of any reasons why the canal builders chose routes other than those you chose?

A drainage divide is high land that separates the areas drained by two different streams or rivers.

5. Locate Lake St. Marys and Buckeye Lake. Both are reservoirs built at the time of the canals. Note their location and the location of the drainage divides. Why do you think these two lakes were built?

6. There are other lakes along the route of the canals that served the same purpose. Name some of them.

7. At what types of places do you think the canal builders had the greatest difficulty in building the canals? Why?

ACTIVITY B: HOW DID THE CANALS AFFECT OHIO?

MATERIALS: The map used in Activity A, four additional markers and a map of the United States

PROCEDURE

Because the canals made it easier for people to travel and ship materials, they had an effect upon many of the cities in Ohio. Figure 1 lists percentage of population increases during 10-year time-spans for several of Ohio's cities. For example, the population of Chillicothe increased by 79% during the decade 1840-1850. At the bottom of Figure 1 are several events that happened during particular decades.

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<tr>
<td>Marietta</td>
<td>——</td>
<td>33</td>
<td>75</td>
<td>27</td>
<td>17</td>
<td>42</td>
</tr>
<tr>
<td>Cincinnati</td>
<td>61</td>
<td>87</td>
<td>149</td>
<td>48</td>
<td>34</td>
<td>18</td>
</tr>
</tbody>
</table>

EVENTS

Figure 1. Population Growth of Certain Ohio Cities.
Examine the population changes for each of the cities (Figure 1). Then answer the following questions on your worksheet:

1. What reasons can you think of for why Chillicothe grew between 1820 and 1860?

2. Did the opening of the Ohio-Erie canal seem to have any effect upon the population growth of Cleveland? Explain.

3. During what period of time did Columbus grow most rapidly? What might have caused this growth?

4. Could the canals have had any effect upon the growth of either Mansfield or Mareetta? Discuss.

5. Describe the growth of Cincinnati. Does it seem to be related to the canals? Discuss.

6. There are many things other than the opening of transportation routes that could affect the growth of cities. Can you think of any? List them on your worksheet.

Which of these might have affected any of the cities above?

Because canals eased the movement of products from place to place, certain cities were able to specialize in types of products. This increased the dependence of cities upon each other. Raw materials would be produced at one place along the canal. They would be taken to another city to be used in manufacturing. The canals also allowed products to be shipped to other states and even to foreign countries.

Figure 2 lists four cities and the products they specialized in during the 1825-50 period.

<table>
<thead>
<tr>
<th>Cincinnati</th>
<th>Cleveland</th>
<th>Troy</th>
<th>New Philadelphia</th>
</tr>
</thead>
<tbody>
<tr>
<td>pork packing</td>
<td>beer</td>
<td>lumber</td>
<td>wood</td>
</tr>
<tr>
<td>container-making</td>
<td>iron machinery</td>
<td>hogs</td>
<td>grain</td>
</tr>
<tr>
<td>clothing</td>
<td>flour</td>
<td>grain</td>
<td>meat &amp; dairy products</td>
</tr>
<tr>
<td>liquor</td>
<td>ship-building</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure 2. Products of Ohio Cities during 1825-1850.

7. Locate Cincinnati and Troy on the Miami-Erie Canal. Draw arrows along the canal from Cincinnati in the direction that its products might move. Use a different colored pencil and do the same for Troy.

8. In what ways might the lumber shipped from Troy be used in Cincinnati?

9. Where else do you think Cincinnati’s products might have been sent? Use a map of the U.S. to answer this question. Describe the route that might be taken by these products.


11. What were some of the uses made of grain that was shipped from New Philadelphia to Cleveland?

12. Where else do you think Cleveland's products might have been shipped? Again use the map of the U.S. Describe the route that might be taken by these products.

13. Of the four cities in Figure 2, which two manufactured materials? Which two cities produced materials used in manufacturing?

After Ohio's products reached an ocean port they could be shipped anywhere in the world. Ohio's canals, therefore, opened Ohio to the world markets. They also allowed the importation of foreign products.
REVIEW QUESTIONS

1. List the major towns connected by the Ohio-Erie Canal, the Miami-Erie Canal.

2. What major reasons were used for locating the canals?

3. How did the canals affect the population growth of certain cities?

4. Explain how the canals lead to specialization of the products supplied by different areas or towns in Ohio.

5. How did the canals tie Ohio towns into world markets?
NAME_____________________________________

OHIO CANALS
WORKSHEET

ACTIVITY A: HOW WERE THE CANAL ROUTES DETERMINED?

1. Why did you choose the route you marked for the Ohio-Erie Canal? ________________________________________

2. Why did you choose the route you marked for the Miami-Erie Canal? ________________________________________

3. Follow directions and trace the actual routes of other canals constructed in Ohio.

4. Where do the routes you marked differ from those actually chosen by the canal builders? ______________________

   Why did the canal builders choose routes other than those you chose? ______________________

5. Why do you think St. Mary’s and Buckeye Lakes were built? ________________________________________

6. Name some other lakes along the route.

7. Where did the canal builders have the greatest difficulty in building the canals? ______________________

   Why? ________________________________________

ACTIVITY B: HOW DID THE CANALS AFFECT OHIO?

1. What reasons can you think of for the way Chillicothe grew between 1820 and 1860? ______________________

2. Did the opening of the Ohio-Erie canal seem to have any effect upon the population growth of Cleveland? ______________________

   Explain. ________________________________________

3. During what period of time did Columbus grow most rapidly? ———— Why? ______________________

4. Could the canals have had any effect upon the growth of either Mansfield or Marietta? Discuss. ______________________

5. Describe the growth of Cincinnati. Does it seem to be related to the canals? Discuss. ______________________
6. What things other than the opening of transportation routes could affect the growth of cities? 

7. Follow directions.

8. In what ways might the lumber shipped from Troy be used in Cincinnati? 

9. Where else do you think Cincinnati's products might have been sent? 
   
   Describe the route that might be taken by these products. 

10. Follow directions.

11. What were some of the uses for grain that was shipped from New Philadelphia to Cleveland? 

12. Where else do you think Cleveland's products might have been shipped? 
   
   Describe the route that might be taken by these products. 

13. Of the four cities in Figure 2, which two manufactured materials? 

   Which two cities produced materials used in manufacturing? 

Review Questions

1. List the major towns connected by the Ohio-Erie canal. 
   
   And by the Miami-Erie canal. 

2. What major reasons were used for locating the canals? 

3. How did the canals affect the population growth of certain cities? 

4. Explain how the canals led to specialization of the products supplied by different areas or towns in Ohio. 

5. How did the canals tie Ohio towns into world markets?