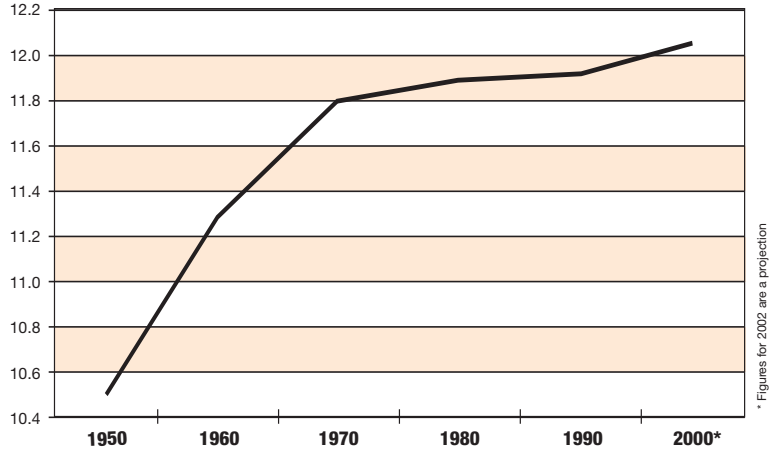
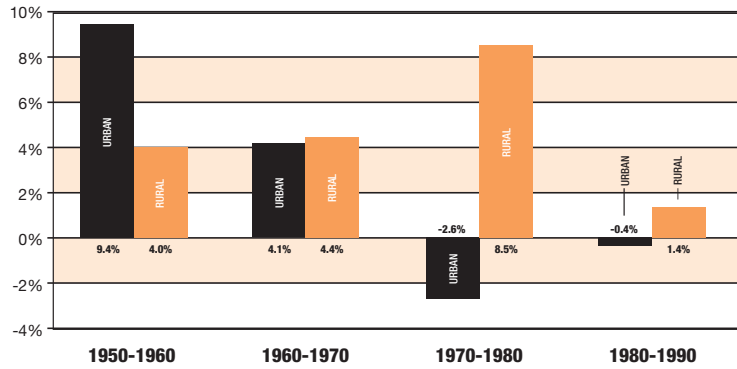


Activity 3: Population Growth Graphs and Charts

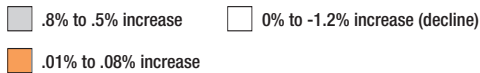
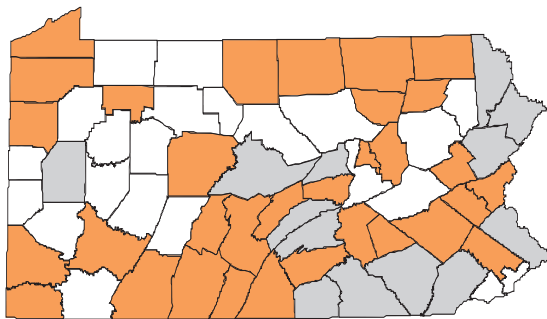
Pennsylvania Population: 1950-2000 (in millions)



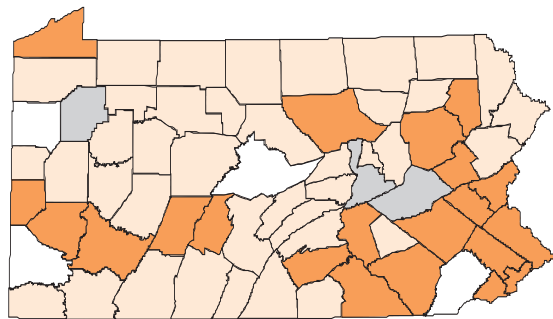
Pennsylvania Urban vs. Rural Growth: 1950-1990



Pennsylvania Population Growth: 1988-1998



Pennsylvania Urban and Rural Counties: 1990



1 Team Members _____

Trends in Pennsylvania. The charts and graphs show changes that have taken place over the past several decades. Charts and graphs summarize data, providing a snapshot of information that will help you identify changes. With this information, you can better determine the planning goals and objectives for the future of Pennsylvania.

1. Using *Pennsylvania Population: 1950–2000* and *Pennsylvania Urban vs. Rural Growth: 1950–1990*, answer the following questions:

1. *How has Pennsylvania's population changed since 1950? What is your projection for the future?*

2. *When was the time of greatest growth?*

3. *How much has it changed in the last 10 years?*

2. Using the *Pennsylvania Population Growth: 1988–1998* and *Pennsylvania Urban and Rural Counties: 1990*, answer the following questions:

1. *What is an urban area?*

2. *Compare the growth of urban and rural populations in 1950–1960 to the growth/decline in urban and rural populations of the 1970–1980, and 1980–1990.*

3. *When did the greatest change happen of people moving from urban to rural areas?*

4. *How many counties are newly classified from rural to urban? What happened?*

5. *How many counties are newly classified from urban to rural? What happened?*

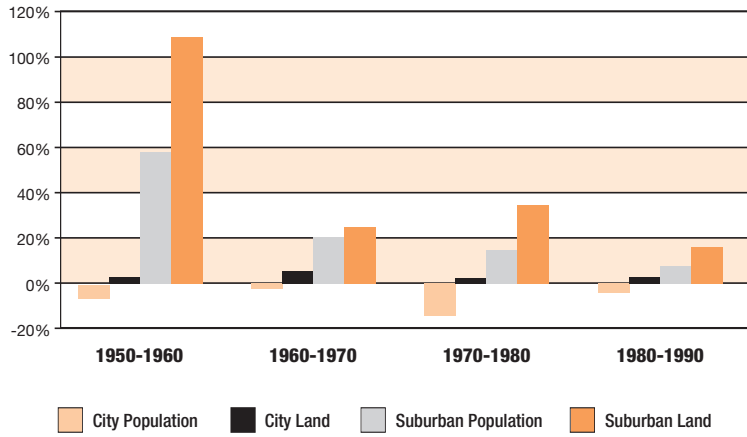
6. *What is happening to rural areas? How could we plan to improve urban areas?*

7. *How many counties have had the greatest increase? Why?*

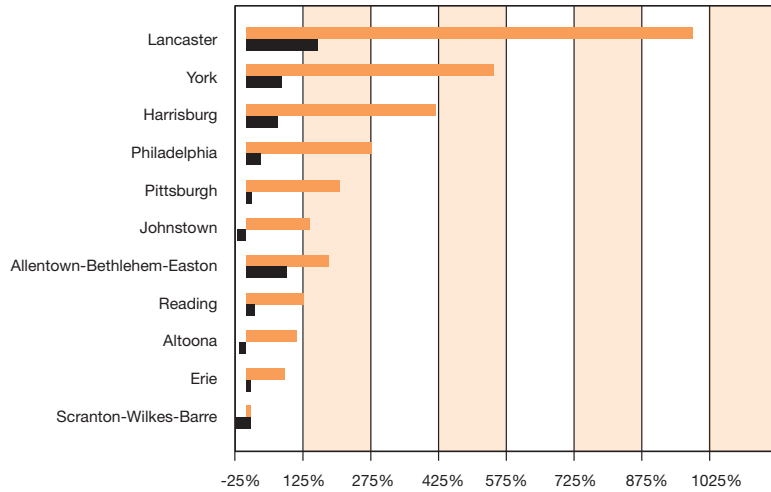
8. *How many counties have declined in population? Why?*

Activity 3: Developed Land Graphs and Charts

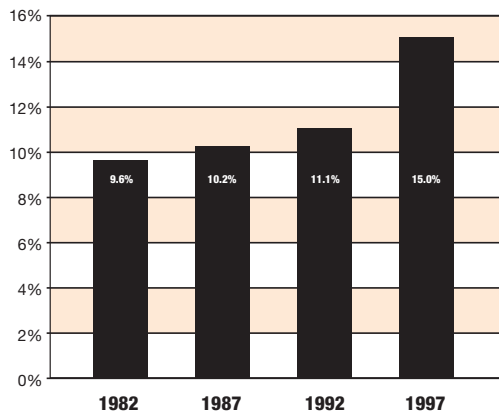
Pennsylvania Urbanized Development: 1950-1990



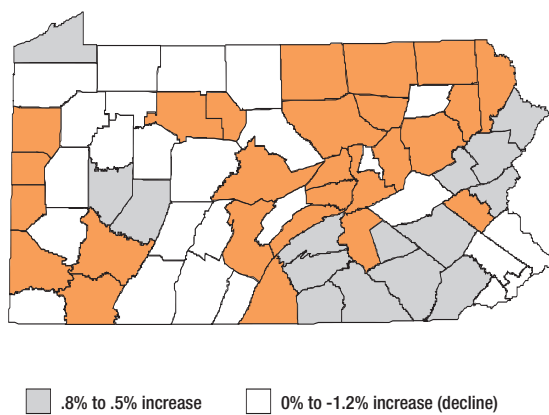
Pennsylvania Population: 1950-2000 (in millions)



Pennsylvania Percent of Land Developed: 1982-1997



Pennsylvania Growth in Developed Land: 1982-1997



Team Members _____

Trends in Pennsylvania. The charts and graphs show changes that have taken place over the past several decades. Charts and graphs summarize data, providing a snapshot of information that will help you identify changes. With this information, you can better determine the planning goals and objectives for the future of Pennsylvania.

1. Using the *Pennsylvania Urbanized Development: 1950–1990* and *Pennsylvania Population: 1950–2000*, answer the following questions:

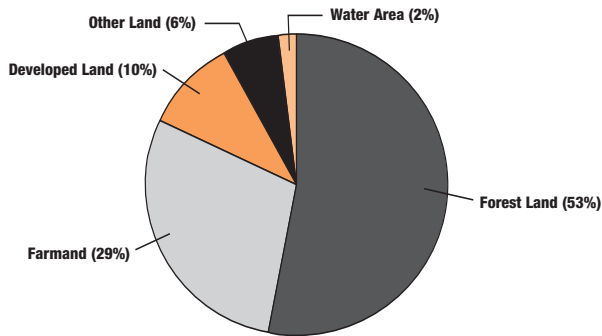
1. *Define what is meant by “developed land.”*
2. *How has developed land increased since 1982?*
3. *When did the greatest development occur?*
4. *Where did development largely occur? Why in certain areas?*

2. Using the *Pennsylvania Percent of Land Developed: 1982–1997* and *Pennsylvania Growth in Developed Land: 1982–1997* charts, answer the following questions:

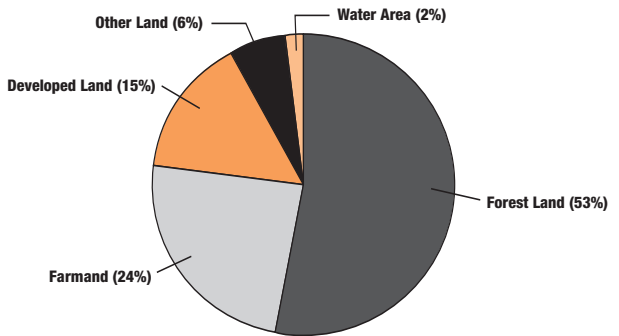
1. *What happened between 1950–1960 to city development compared to suburban development?*
2. *Describe what happened with population growth and land development between 1960 and 1990?*
3. *What three urbanized areas have the greatest growth in population? How does the population growth compare to the land growth?*
4. *If Pennsylvania’s population has slightly increased less than one percent in the past 20 years, why has there been such an increase in developed land?*

Activity 3: Land Cover and Agricultural Lands Graphs and Charts

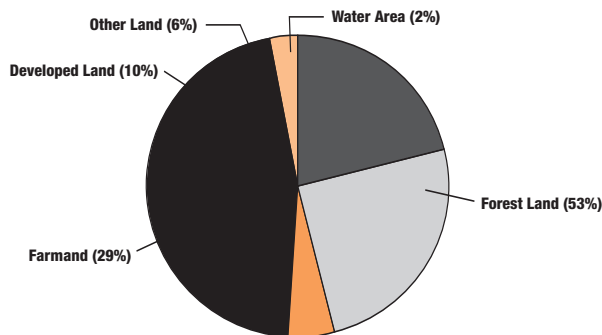
Pennsylvania Land Cover: 1982



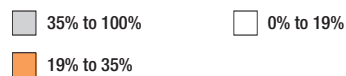
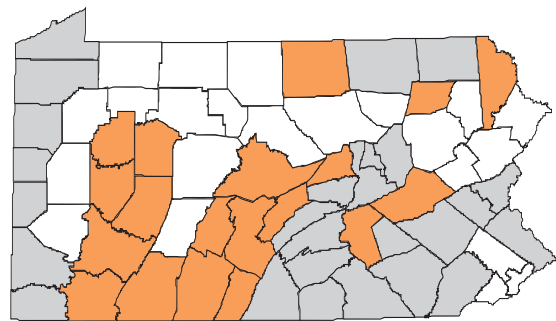
Pennsylvania Land Cover: 1997



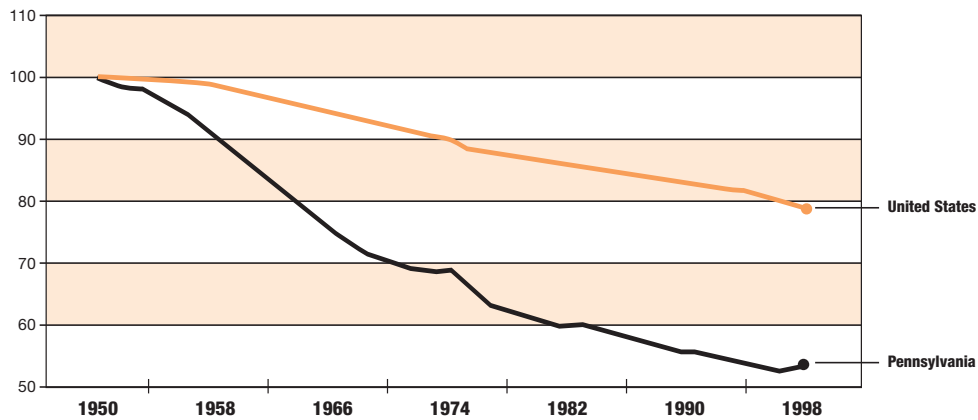
United States Land Cover: 1997



Pennsylvania Percent of Total Land in Farms: 1997



Farm Acreage Index: 1950-1998 (in millions)



Activity 3: Land Cover and Agricultural Lands Worksheet**Team Members** _____

Trends in Pennsylvania. The charts and graphs show changes that have taken place over the past several decades. Charts and graphs summarize data, providing a “snapshot” of information that will help you identify changes. With this information, you can better determine the planning goals and objectives for the future of Pennsylvania.

1. Using the *Pennsylvania Land Cover: 1982*, *Pennsylvania Land Cover: 1997*, and *United States Land Cover: 1997 charts*, answer the following questions:

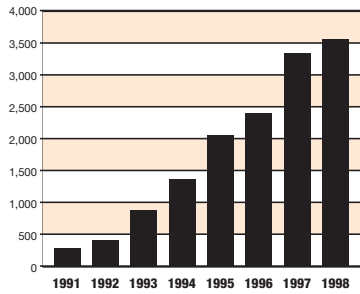
- 1. What are the categories of land cover?*
- 2. Compare the change in land cover between 1982 and 1997. What land cover increased? What land cover decreased?*
- 3. How many acres of farm land were developed between 1982 and 1997? Why?*
- 4. How does Pennsylvania’s developed land compare to the national average?*

2. Using the *Farm Acreage Index* and *Pennsylvania Percent of Land in Farms: 1997*, answer the following questions:

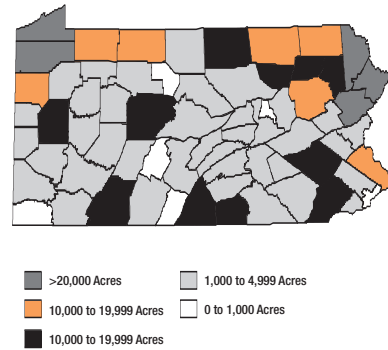
- 1. What has happened to Pennsylvania farmland since 1950 compared to the national average?*
- 2. Why has farm acreage declined?*
- 3. Where are the farmlands located that will be urbanized in the near future?*

Activity 3: Wetlands, Forest and Park Land Graphs and Charts

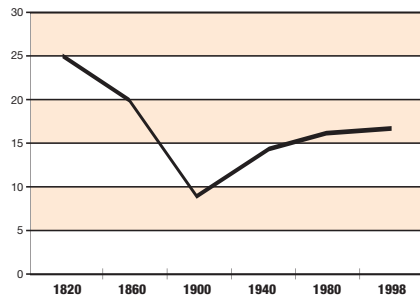
Pennsylvania Cumulative Acres of Wetland Restored: 1991-1998



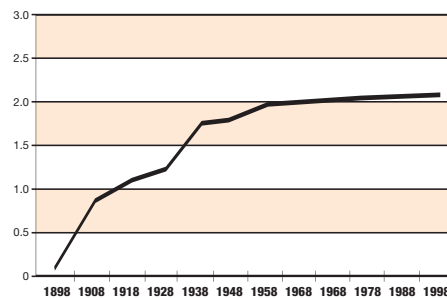
Pennsylvania Acres of Wetland by County: 1990



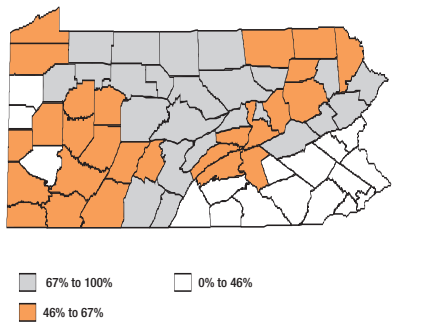
Pennsylvania Acres of Forest Land: 1820-1998 (in millions)



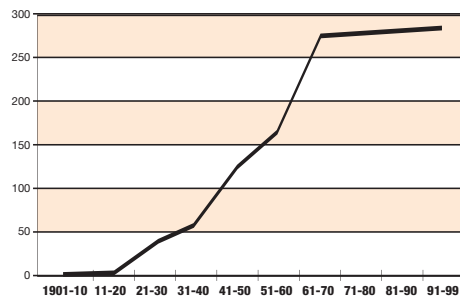
Pennsylvania Acres of State-owned Forest Land: 1898-1998 (in millions)



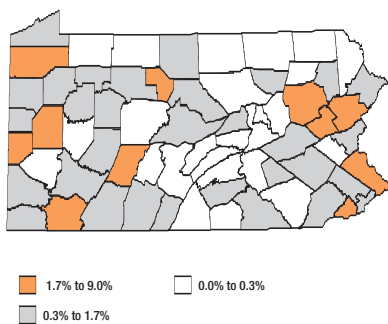
Pennsylvania Percent of Total Land that is Forest Land: 1989



Pennsylvania Park Land: 1901-1999 (in thousands)



Pennsylvania Percent of Total Land that is State Park Land: 1994



Activity 3: Wetlands, Forest and Park Land Worksheet**Team Members** _____

Trends in Pennsylvania. The charts and graphs show changes that have taken place over the past several decades. Charts and graphs summarize data, providing a snapshot of information that will help you identify changes. With this information, you can better determine the planning goals and objectives for the future of Pennsylvania.

1. Using *Pennsylvania Cumulative Acres of Wetland Restored: 1991–1998* and *Pennsylvania Acres of Wetland by County: 1990*, answer the following questions:

1. Define wetlands. Why are they valuable?
2. What has happened to wetlands since the 1700s?
3. In 1990, which areas of Pennsylvania had the most wetlands?
4. Why are wetland habitats threatened in Pennsylvania?
5. How many acres of wetlands were restored between 1991 and 1998?

2. Using the *Pennsylvania Acres of Forest Land: 1820–1998*, *Pennsylvania Acres of State-owned Forest Land: 1898–1998*, and *Pennsylvania Percent of Total Land that is Forest Land: 1989*, answer the following questions:

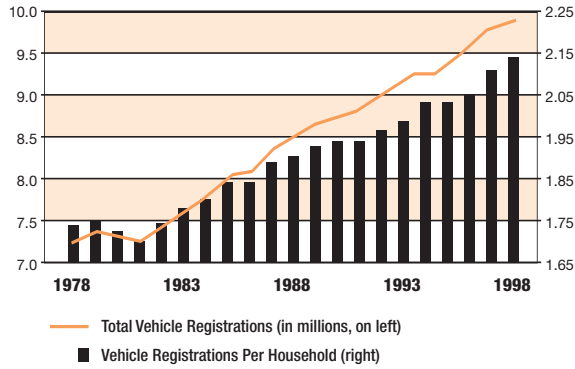
1. What happened to forestland in the 1800s?
2. What happened to state-owned forest land since 1898? since 1970?
3. How many acres of Pennsylvania are forested?
4. Which regions are the most and least heavily forested? Why?

3. Using *Pennsylvania Park Land: 1901–1999* and *Pennsylvania Percent of Total Land that is State Park Land: 1994*, answer the following questions:

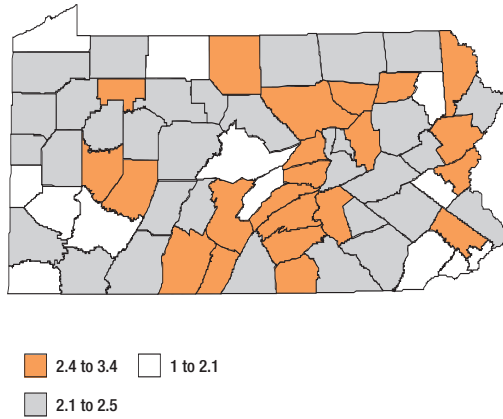
1. When did the greatest growth occur in state parks?
2. What has happened in growth of park land since 1970?
3. How valuable are state parks to Pennsylvania?

Activity 3: Vehicles, Road Miles and Public Transportation Worksheet Graphs and Charts

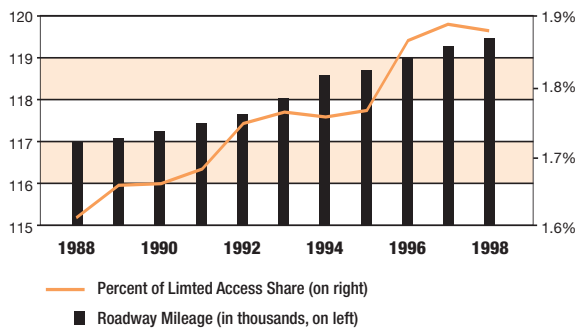
Pennsylvania Vehicle Registrations: 1978-1998



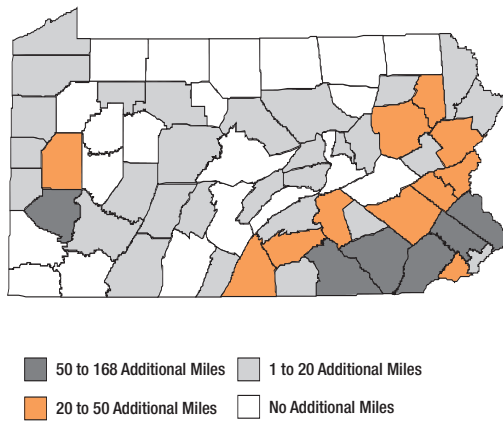
Pennsylvania Vehicle Registrations Per Household: 1998



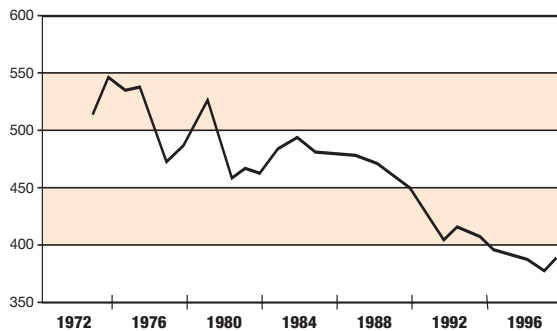
Pennsylvania Road Mileage: 1988-1998



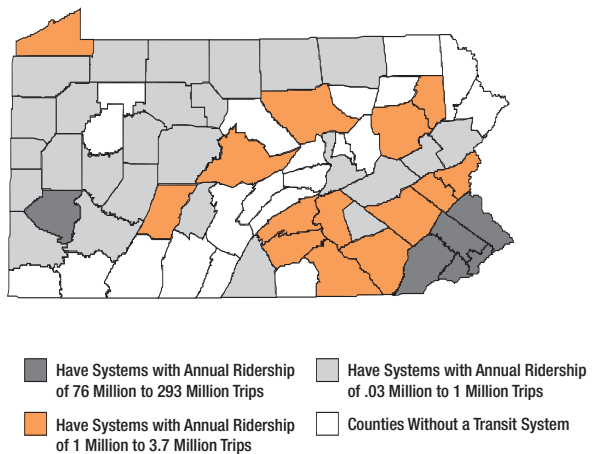
Pennsylvania Change in Public Road Miles: 1994-1998



Pennsylvania Urban Transit Ridership: 1972-1996
(Number of passenger trips in thousands)



Pennsylvania Access to Public Transportation: 1998



Activity 3: Vehicles, Road Miles and Public Transportation Worksheet**Team Members** _____

Trends in Pennsylvania. The charts and graphs show changes that have taken place over the past several decades. Charts and graphs summarize data, providing a snapshot of information that will help you identify changes. With this information, you can better determine the planning goals and objectives for the future of Pennsylvania.

1. Using the *Pennsylvania Vehicle Registrations: 1978-1998* and *Pennsylvania Vehicle Registrations Per Household: 1998*, answer the following questions:

1. *How has the number of vehicles changed since 1978?*
2. *How does vehicle registration impact Pennsylvania's land use?*
3. *What is the average number of vehicles per household in your county?*

2. Using the *Pennsylvania Road Mileage: 1988-1998*, and *Pennsylvania Change in Public Road Miles: 1994-1998*, answer the following questions:

1. *How have the miles of roads changed from 1988 to 1998?*
2. *How do road miles equate to land development?*

3. Using the *Pennsylvania Urban Transit Ridership: 1972-1996* and *Pennsylvania Access to Public Transportation 1998*, answer the following questions:

1. *What happened to the number of urban transit trips from 1972-1996?*
2. *Why is there a decline in public transportation?*
3. *How does efficient and desirable public transportation benefit land use in Pennsylvania?*