Name:	

## **Investigating Hydroelectric Power Dams with Web GIS Investigation Sheet**

Hydropower is energy that comes from the force of moving water. Most hydroelectric power plants are developed at dams. In this activity, you will use Web GIS to study and analyze hydroelectric power dams. You will

- 1. Query and analyze features of US hydroelectric power dams.
- 2. Query and analyze features of the 10 most powerful US hydroelectric power dams.
- 3. Create a new layer containing Pennsylvania hydroelectric power dams.
- 4. Query and analyze features of Pennsylvania hydroelectric power dams.

Read **all** instructions on your handout and answer **each** question.

1.	What is the name of the <b>oldest</b> dam?
2.	Which year was the oldest dam completed?
3.	What is the name of the <b>most recently</b> built dam?
4.	How many dams were completed between 1990-1997? Helpful hint: Sort the YEAR COMPLETED column in descending order.
5.	What is the name of the tallest dam? Helpful hint: Sort the HEIGHT ft column in descending order. Which state is it located in? What is its height?
6.	How many dams are between 500 and 800 feet high?
7.	How many dams are on the Columbia River?
8.	What is the size of the largest dam reservoir on the Columbia River?
9.	How many different watersheds have dams on the Columbia River?
10.	How many different rivers are the top 10 most powerful dams located on?
11.	How many of these dams are located on the Columbia River?
12.	Which states have more than one of the biggest power generating dams?
13.	Which is the most powerful dam?
14.	What is the dam's capacity in megawatts (MW)?
15.	Using the Top 10 Dams Graph, what is the relationship between the dam height and the dam's

16.	How many hydroelectric power dams are in Pennsylvania?
17.	Which is the <b>oldest</b> dam?
18.	Which is the <b>most recently</b> built dam?
19.	Which is the shortest dam? What is its height? Helpful hint: Sort the HEIGHT ft column in ascending order.
20.	Which is the tallest dam? What is its height? Helpful hint: Sort the HEIGHT ft column in descending order.
21.	How many different watersheds have dams?
22.	How many hydroelectric power dams are on the Susquehanna River?  Helpful hint: Sort the RIVER NAME column in ascending order.
23.	Which dam has the biggest reservoir?