

PURPOSE: To interpret a topo map of the Big Meadows area of Shenandoah National Park, by matching photos of the area.

MATERIALS:

Topo map of Big Meadows, ArcView project of Big Meadows, GIS Puzzle sheet and photo page site <http://staff.harrisonburg.k12.va.us/~llineweaver/superclass/arcview/bigmeadows.shtml> .

PROCEDURE: Access the photopage site and also launch ArcView and open the Big Meadows project named **snp.apr**. You will be looking at these and the topo map to solve the puzzle questions below,

1. Where do you think the **steepest** sections of the topo map are (on the east, the west, or in the center of the map?) _____ Why? _____

Which of the photos was taken at Point #1 on your ArcView map? Photo _____

2. The **Visitor Center** is near what Mile Post? MP _____

Which of the photos was taken at Point #2 on your ArcView map? Photo _____

3. There is a dark area on the map - check the legend to find the name of the **Spring** which collects water from this area. _____

Which of the photos was taken at Point #3 on your ArcView map? Photo _____

4. There are two areas on the topo map that the legend indicates are **Wetlands**. Are these areas level or steep? _____

Which photo shows green, lush growth that might be a wetland area seen at Point #4 on your map? Photo _____

5. What is the altitude of the marked topo line around the Big Meadows meadow? □ _____

Which of the photos shows tall old-growth trees that are growing at the edge of the Meadow at Point #5? Photo _____

6. Homesteaders liked to build their homes near springs or other water sources (streams, brooks, branches). What is the name of a stream (or **branch**) near Big Meadows? _____

Which photo was taken at Point #6 and shows a common flowering plant often planted near homesteads, used for keeping pesky flies out of their homes? Photo _____ ArcView _____

map Location CallOut Points

1. Lewis Falls
2. Gas Station
3. Lewis Springs
4. Wetlands of Big Meadows
5. Old trees at edge of meadow.
6. Homestead with Poison Fly plant