

A. Getting Started in ArcView

- Open ArcView (click OK on the error message)
- Create a new View (Click on the New button in the Project window)
- Add Harrisonburg Data (From the Menu bar: Add Theme... or click on the plus button in the button bar)
- Navigate to the Shared documents folder and open the *ArcView_New* folder.
 - In the *ArcView_New* folder open *Harrisonburg - Tiger*
 - Click Add All in the lower right corner of the window

B. Activating and Arranging Themes

- Turn on all of the themes in View 1 (this is done by clicking on the box next to each theme name. The theme is turned on when there is a check in that box)
- Activate the *Harrisonburg.shp* theme (A theme is active when it appears to be raised and stand out from the other themes)
- Move the *Harrisonburg.shp* theme to the bottom of the screen (click and drag the theme to the bottom of the list.)
- Do the same for the *Vacounty.shp*.
- Zoom into the Harrisonburg Area (Use the button that looks like a magnifying glass with a plus in it. Either click and drag a square around the area of click several times in the Harrisonburg area.)

C. Exploring Harrisonburg with ArcView

1. How do you make the *Vacounty.shp* theme active? _____
How do you know which theme is active? _____
2. ___ Change the colors of the Streams to blue.
___ Change the color of the cities to a color of your choice.
3. What five counties have boundaries touching with Rockingham Co? (The theme you want the information from has to be active. The information tool (i) will help with this.)

4. What two streams flow through Harrisonburg?

5. Open the *Streets.dbf* table (click on *Untitled* first). Manipulate the data so as to find the street you live on. (Hint: Sort the data by the field *Fename*)
_____ How many sections is your street divided into?
6. What two streets does I81 pass over before it leaves Harrisonburg City going North?

7. Which Age Group has the largest population in Harrisonburg? Add Vacounty.dbf table.
 _____ Why, do you think? _____
8. What is the most recent population for Harrisonburg? _____
 What is the area for Harrisonburg? _____ sq miles.
 What was the population density for Harrisonburg in 1999 rounded to the nearest person.
 (Hint: This has to be calculated.) _____
9. What is the latitude and longitude where I81 and Route 33 intersect.

10. What two railways are in Harrisonburg? (Hint: Use the i tool or use the table)

11. ___ Locate your street again. Find the location of your house and put a dot on it
 (Find the drawing tool and select the dot button). Label it, too, if you can! (T tool)
12. Find THMS. (Hint: It's one street to the west of Waterman). What is long. & lat.?
 Lat. _____ Long. _____
13. Why is Purcell Park divided onto three polygons?

D. Adding Some Places in ArcView and Exploring

- Navigate to the Projects window (Title bar says Untitled)
- Click on the Tables icon. •Click on Add.
- Navigate to the Shared documents folder and open the ArcView_New folder.
- Change the pull down menu "Show Files of Type:" to be "Delimited Text (*.txt)"
- Select *gpspointsinharr(dd)* and click on Open.
- Click back on your map of Harrisonburg.
- From View select Add Event Theme...
- In the pull down menu next to Table: select the table *gpspointsinharr(dd).shp* •Click on OK
- Turn on *gpspointsinharr(dd).shp*
- Change the color of the points so that you can see them in the View.

1. At what location are three of the points? _____
2. There are two points located off of High St. At what location are these points?

3. Find a cluster of more than two points. As you move East to West in that cluster, what is happening to the numerical value of their Longitude? _____
4. Why are these value negative? _____
5. Zoom into the points at Purcell Park. Which point are the Tennis Courts? _____