

NSSI Geomorphology Module: Field Trip to Lewisburg Area GIS Background Exercise

Using your Luckiamute Data CD and the project files on the **K:\NSSI\GISData\ArcView Projects** folder, examine the following GIS themes and answer the related questions.

1. Open the streams.apr and find the Soap Creek and Baker Creek sub-basins of the Luckiamute. Build a mental map of our destinations.
2. Using the location.apr, determine the quadrangle of Soap Creek and Baker Creek.
3. Using the precip.apr, determine the range of precipitation for Soap Ck / Baker Creek.
4. Do the same for bedrock, determine the bedrock units that underlies Baker Ck, and Soap Ck.
5. Open the vegetation.apr, determine the dominant vegetative assemblage for:

Main valley floor of Soap Creek

Baker Ck. Watershed

6. Open the debrisflow hazards *.apr, determine the relative debris flow hazards for the Baker Creek Watershed. Overlay the bent_cont_100.shp file on the project and determine what type of topographic settings are associated with the highest hazard?

Question: what topographic position on the landscape would you likely find landslide / debris flow deposits?