

Data Sources

Lab 1:

Airports: <http://wvgis.wvu.edu/data/dataset.php?ID=115>

Interstates: <http://wvgis.wvu.edu/data/dataset.php?ID=107>

Limestone: <http://wvgis.wvu.edu/data/dataset.php?ID=43>

Counties: <http://wvgis.wvu.edu/data/dataset.php?ID=136>

Land_Cover: <https://www.mrlc.gov/data>

Elev: <http://wvgis.wvu.edu/data/dataset.php?ID=29>

Hillshade: derived from Elev

Springs: <http://wvgis.wvu.edu/data/dataset.php?ID=126>

Lab 2:

Counties: <http://wvgis.wvu.edu/data/dataset.php?ID=136>

States: <https://www.census.gov/programs-surveys/geography.html>

UTM_Zones:

https://apps.gis.ucla.edu/geodata/dataset/world_utm_zones/resource/fc8af8e2-0818-4f50-baf0-2cc04cbaa541

World_Countries: <https://www.naturalearthdata.com/>

Lat_Long_15: <https://www.naturalearthdata.com/>

Cities: <https://www.naturalearthdata.com/>

TissotEllipses: <https://www.esri.com/arcgis-blog/products/product/mapping/tissots-indicatrix-helps-illustrate-map-projection-distortion/>

Asia_Countries: Derived from World_Countries

Europe_Countries: derived from World_Countries

Lab 3:

Indiana: <https://www.census.gov/programs-surveys/geography.html>

Counties: <https://www.census.gov/programs-surveys/geography.html>

Lab 4:

Nat_mall.img: <https://www.fsa.usda.gov/programs-and-services/aerial-photography/imagery-programs/naip-imagery/>

Lab 5:

Towns: <http://wvgis.wvu.edu/data/dataset.php?ID=438>

Polluters: <https://tagis.dep.wv.gov/home/node/1>

Rivers: <http://wvgis.wvu.edu/data/dataset.php?ID=204>

Interstates: <http://wvgis.wvu.edu/data/dataset.php?ID=107>

Geology: <http://wvgis.wvu.edu/data/dataset.php?ID=43>

Counties: <http://wvgis.wvu.edu/data/dataset.php?ID=136>

Counties_sub: derived from Counties

Lc: <https://www.mrlc.gov/data>

Ele: <http://wvgis.wvu.edu/data/dataset.php?ID=29>

Slp: Derived from Ele

Lab 6:

S_stack.img: Derived from Landsat 5 Thematic Mapper (<https://earthexplorer.usgs.gov/>)

Lab 7:

Airport: <http://wvgis.wvu.edu/data/dataset.php?ID=115>

Intersate_68: <http://wvgis.wvu.edu/data/dataset.php?ID=107>

Elev: <http://wvgis.wvu.edu/data/dataset.php?ID=29>

Building_footprints_sub_17N: <http://pghgis-pittsburghpa.opendata.arcgis.com/>

Pitt_image.tif: <https://www.fsa.usda.gov/programs-and-services/aerial-photography/imagery-programs/naip-imagery/>

Lab 8:

European_Countries: <https://www.naturalearthdata.com/>

World_Countries: <https://www.naturalearthdata.com/>

Colorado_River: <https://www.usgs.gov/core-science-systems/ngp/national-hydrography>

Colorado_River_Drainage_Basins: <https://www.usgs.gov/core-science-systems/ngp/national-hydrography>

Colorado_River_States: <https://www.census.gov/programs-surveys/geography.html>

Colorado_River_Tributaries: <https://www.usgs.gov/core-science-systems/ngp/national-hydrography>

Narra_block: <https://actmapi-actgov.opendata.arcgis.com/search?q=administrative%20boundaries>

Narra_foot: <https://actmapi-actgov.opendata.arcgis.com/search?q=administrative%20boundaries>

Narrabundah: <https://actmapi-actgov.opendata.arcgis.com/search?q=administrative%20boundaries>

Study Area Extent: See <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0128813>

US_States: <https://www.census.gov/programs-surveys/geography.html>

US_Counties: <https://www.census.gov/programs-surveys/geography.html>

Mine_probability: See <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0128813>

Lab 9:

Airport_locations: <http://wvgis.wvu.edu/data/dataset.php?ID=115>

Interstates: <http://wvgis.wvu.edu/data/dataset.php?ID=107>

Limestone: <http://wvgis.wvu.edu/data/dataset.php?ID=43>

Counties_detailed: <http://wvgis.wvu.edu/data/dataset.php?ID=136>

Nlcd_wv_utm17: <https://www.mrlc.gov/data>

Wv_elev: <http://wvgis.wvu.edu/data/dataset.php?ID=29>

Wv_hillshd: derived from Elev

Springs: <http://wvgis.wvu.edu/data/dataset.php?ID=126>

Morgantown_north_sw: <http://wvgis.wvu.edu/data/dataset.php?ID=254>

Mt_Hood_points: derived from National Elevation Dataset
(<https://catalog.data.gov/dataset/usgs-national-elevation-dataset-ned>)

Lab 10:

Airport_locations: <http://wvgis.wvu.edu/data/dataset.php?ID=115>

Hospitals: <http://wvgis.wvu.edu/data/dataset.php?ID=374>

Permittedpollutiondischarges_utm: <https://tagis.dep.wv.gov/home/node/1>

Interstates: <http://wvgis.wvu.edu/data/dataset.php?ID=107>

Major_rivers2: <http://wvgis.wvu.edu/data/dataset.php?ID=204>

Limestone: <http://wvgis.wvu.edu/data/dataset.php?ID=43>

Counties_detailed: <http://wvgis.wvu.edu/data/dataset.php?ID=136>

Springs: <http://wvgis.wvu.edu/data/dataset.php?ID=126>

Geology: <http://wvgis.wvu.edu/data/dataset.php?ID=43>

Towns: <http://wvgis.wvu.edu/data/dataset.php?ID=438>

Lab 11:

Morgantown_north_sw: <http://wvgis.wvu.edu/data/dataset.php?ID=254>

Charleston: <https://www.fsa.usda.gov/programs-and-services/aerial-photography/imagery-programs/naip-imagery/>

Venice_Bound: generated by creators

Charleston_points: generated by creators

DowntownCampusMap: from West Virginia University (<https://lib.wvu.edu/>)

Venice2: <https://www.loc.gov/>

Lab 12:

Counties_detailed: <http://wvgis.wvu.edu/data/dataset.php?ID=136>

Public_lands: <http://wvgis.wvu.edu/data/dataset.php?ID=262>,

<http://wvgis.wvu.edu/data/dataset.php?ID=57>,

<http://wvgis.wvu.edu/data/dataset.php?ID=236>,

<http://wvgis.wvu.edu/data/dataset.php?ID=58>,

<http://wvgis.wvu.edu/data/dataset.php?ID=203>,

<http://wvgis.wvu.edu/data/dataset.php?ID=59>

Wv_trails: <http://www.wvgis.wvu.edu/data/dataset.php?ID=413>

Wv_trails_points: <http://www.wvgis.wvu.edu/data/dataset.php?ID=413>

Wv_hillshd: Derived from 30 m NED DEM
(<http://wvgis.wvu.edu/data/dataset.php?ID=29>)

Lab 13:

Tornadoes: <https://www.spc.noaa.gov/gis/svrgis/>

Cities: <https://www.census.gov/programs-surveys/geography.html>

Interstates: <https://www.census.gov/programs-surveys/geography.html>

Us_eco_ref_I3: <https://www.epa.gov/eco-research/level-iii-and-iv-ecoregions-continental-united-states>

States: <https://www.census.gov/programs-surveys/geography.html>

Lab 14:

Counties: <http://wvgis.wvu.edu/data/dataset.php?ID=136>

Mine_discharge_points: <https://tagis.dep.wv.gov/home/node/1>

Elevation: <http://wvgis.wvu.edu/data/dataset.php?ID=29>

Rail_lines: <http://wvgis.wvu.edu/data/dataset.php?ID=113>

Towns: <http://wvgis.wvu.edu/data/dataset.php?ID=438>

Pub_lands: <http://wvgis.wvu.edu/data/dataset.php?ID=262>,
<http://wvgis.wvu.edu/data/dataset.php?ID=57>,
<http://wvgis.wvu.edu/data/dataset.php?ID=236>,
<http://wvgis.wvu.edu/data/dataset.php?ID=58>,
<http://wvgis.wvu.edu/data/dataset.php?ID=203>,
<http://wvgis.wvu.edu/data/dataset.php?ID=59>

Landcover: <https://www.mrlc.gov/data>

Elevation: <http://wvgis.wvu.edu/data/dataset.php?ID=29>

Lab 15:

Hotels_morgantown: Created for exercise

Pizza_shops_Morgantown: Created for exercise

Morgantown_roads: <https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-line-file.html>

Barrier: Created for lab

Lab 16:

Dem: Derived from LiDAR (<http://data.wvgis.wvu.edu/lidar/>)

Dem_pre: Derived from LiDAR
(<http://wvgis.wvu.edu/data/dataset.php?ID=231>)

Dem_post: Derived from LiDAR (<http://data.wvgis.wvu.edu/lidar/>)

Lab 17:

Watershed_NRCS: <http://wvgis.wvu.edu/data/dataset.php?ID=379>

Wv_elev: <http://wvgis.wvu.edu/data/dataset.php?ID=29>

Lab 18:

Discharge_Points: <https://tagis.dep.wv.gov/home/node/1>

Streams: <http://wvgis.wvu.edu/data/dataset.php?ID=265>

Watersheds: <http://wvgis.wvu.edu/data/dataset.php?ID=379>

Nlcd_2011: <https://www.mrlc.gov/data>

Elevation: <http://wvgis.wvu.edu/data/dataset.php?ID=29>

Lab 19:

TuckerCounty_CorridorH: <http://wvgis.wvu.edu/data/dataset.php?ID=234>

Wetlands: <http://wvgis.wvu.edu/data/dataset.php?ID=124>

Lab 20:

Study_Boundary_Dissolved: Derived from Watersheds

Watersheds: <http://wvgis.wvu.edu/data/dataset.php?ID=379>

Fragment: <http://wvgis.wvu.edu/data/dataset.php?ID=453>

Elu: <http://wvgis.wvu.edu/data/dataset.php?ID=452>

Elevation: <http://wvgis.wvu.edu/data/dataset.php?ID=29>

Test_dem: Derived from LiDAR (<http://data.wvgis.wvu.edu/lidar/>)

Roughness.py: Created by Jeff Evans
(<https://evansmurphy.wixsite.com/evansspatial/arcgis-gradient-metrics-toolbox>)

Lab 21:

Towns: <http://wvgis.wvu.edu/data/dataset.php?ID=438>

Airports: <http://wvgis.wvu.edu/data/dataset.php?ID=115>

Railroads: <http://wvgis.wvu.edu/data/dataset.php?ID=113>

Intersates: <http://wvgis.wvu.edu/data/dataset.php?ID=107>

Marion_county: Derived from

<http://wvgis.wvu.edu/data/dataset.php?ID=136>

Land_cover: <https://www.mrlc.gov/data>

Dem_meters: <http://wvgis.wvu.edu/data/dataset.php?ID=29>

Lab 22:

Universities: <http://pghgis-pittsburghpa.opendata.arcgis.com/>

Trees: <http://pghgis-pittsburghpa.opendata.arcgis.com/>

Schools: <http://pghgis-pittsburghpa.opendata.arcgis.com/>

PAT_stops: <http://pghgis-pittsburghpa.opendata.arcgis.com/>

Hospitals: <http://pghgis-pittsburghpa.opendata.arcgis.com/>

City_Boundary: <http://pghgis-pittsburghpa.opendata.arcgis.com/>

West_counties: <https://www.census.gov/programs-surveys/geography.html>

Lab 23:

Water_Pumps: Provided by Dr. Robin Wilson of the School of Geography at the University of South Hampton

Death_Addresses: Provided by Dr. Robin Wilson of the School of Geography at the University of South Hampton

Buildings: Provided by Dr. Robin Wilson of the School of Geography at the University of South Hampton

Study_Area: Provided by Dr. Robin Wilson of the School of Geography at the University of South Hampton

John_Snow_Map: Provided by Dr. Robin Wilson of the School of Geography at the University of South Hampton

Clim_points: <https://canadiangis.com/data>

Ontario: <https://canadiangis.com/data>

Canada: <https://canadiangis.com/data>

Depthsamples: Provide by Dr. Mike Strager at West Virginia University

Lake_erie_shoreline: Provide by Dr. Mike Strager at West Virginia University

Lab 24:

Validation_points: created for lab exercise

Sentinel_vancouver: Sentinel-2 data provided by European Space Agency and downloaded from <https://earthexplorer.usgs.gov/>

Lab 25:

Parsons: <https://www.fsa.usda.gov/programs-and-services/aerial-photography/imagery-programs/naip-imagery/>

Tree_points: created for lab

LiDAR data: <http://data.wvgis.wvu.edu/lidar/>

Lab 26:

major_rivers: <http://wvgis.wvu.edu/data/dataset.php?ID=204>

highways: <http://wvgis.wvu.edu/data/dataset.php?ID=107>

incorporated_places: <http://wvgis.wvu.edu/data/dataset.php?ID=429>

county_boundaries: <http://wvgis.wvu.edu/data/dataset.php?ID=136>

PRISM Data: <http://prism.oregonstate.edu/>

Land Cover Data: <https://www.mrlc.gov/data>

State and County Boundaries: <https://www.census.gov/programs-surveys/geography.html>