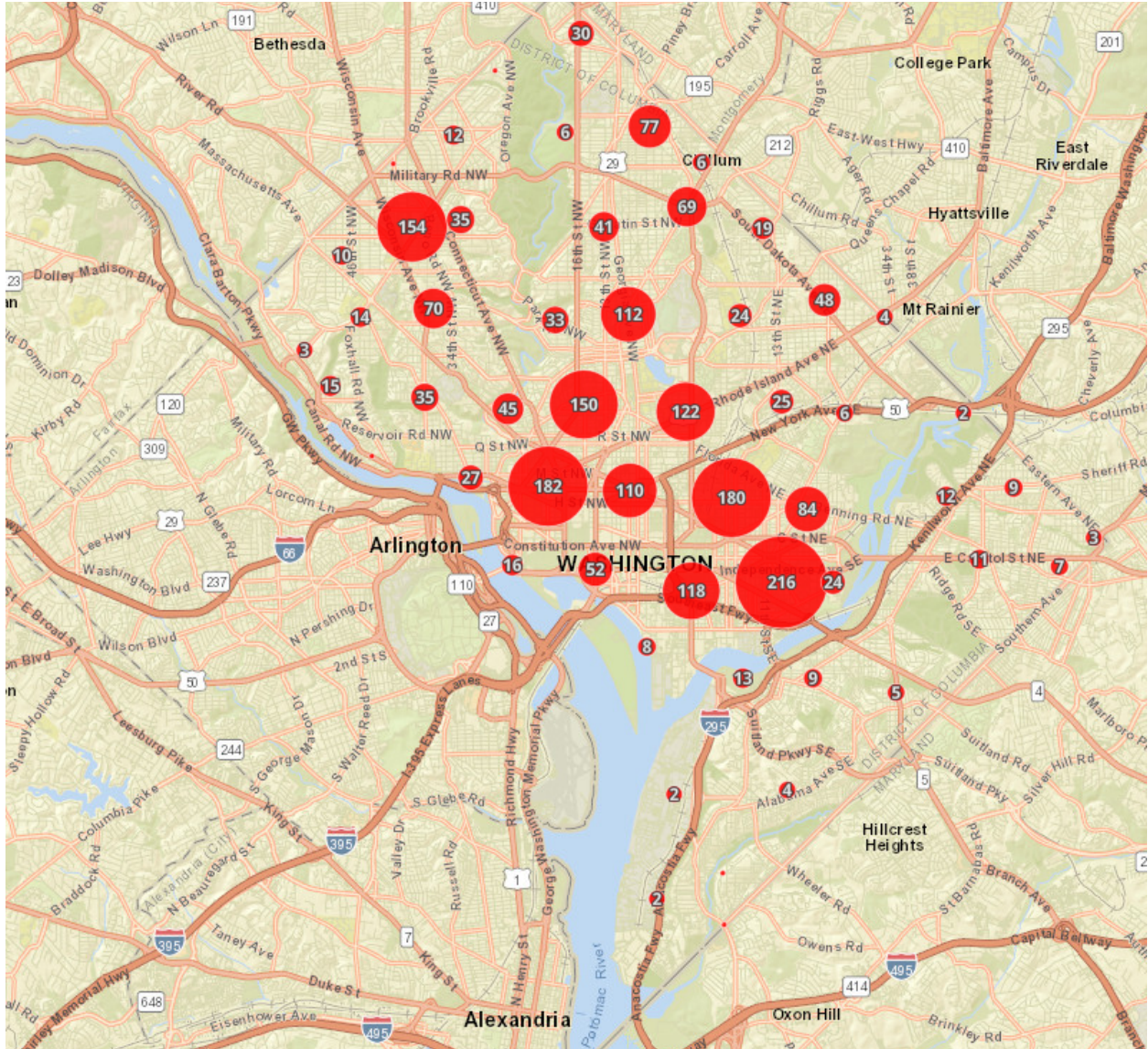
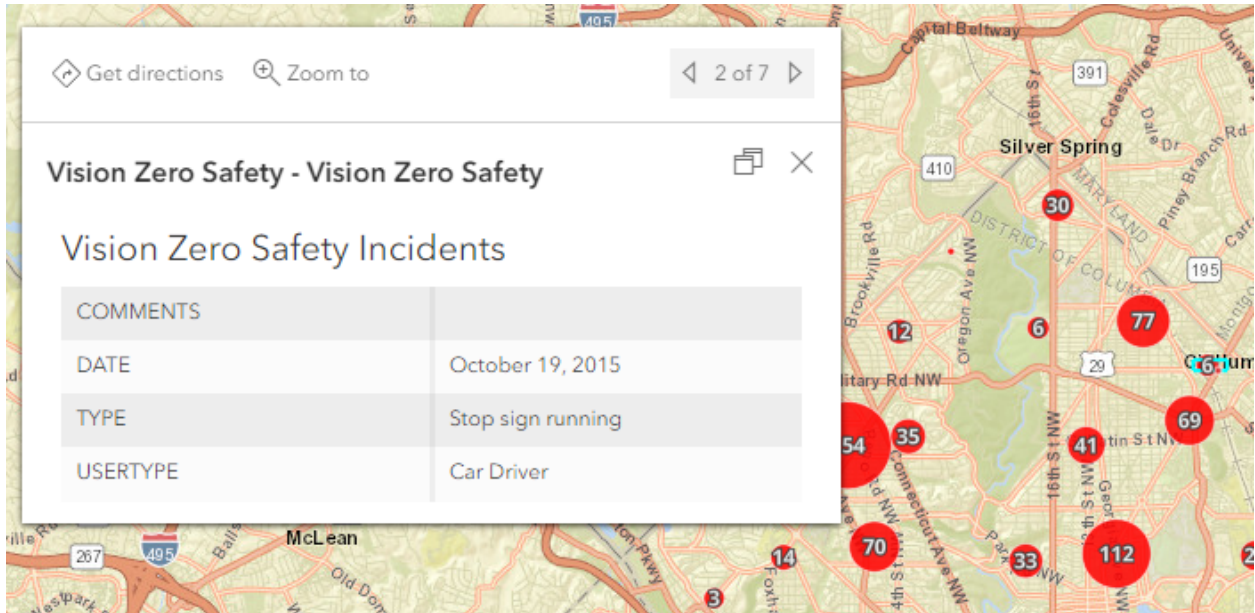


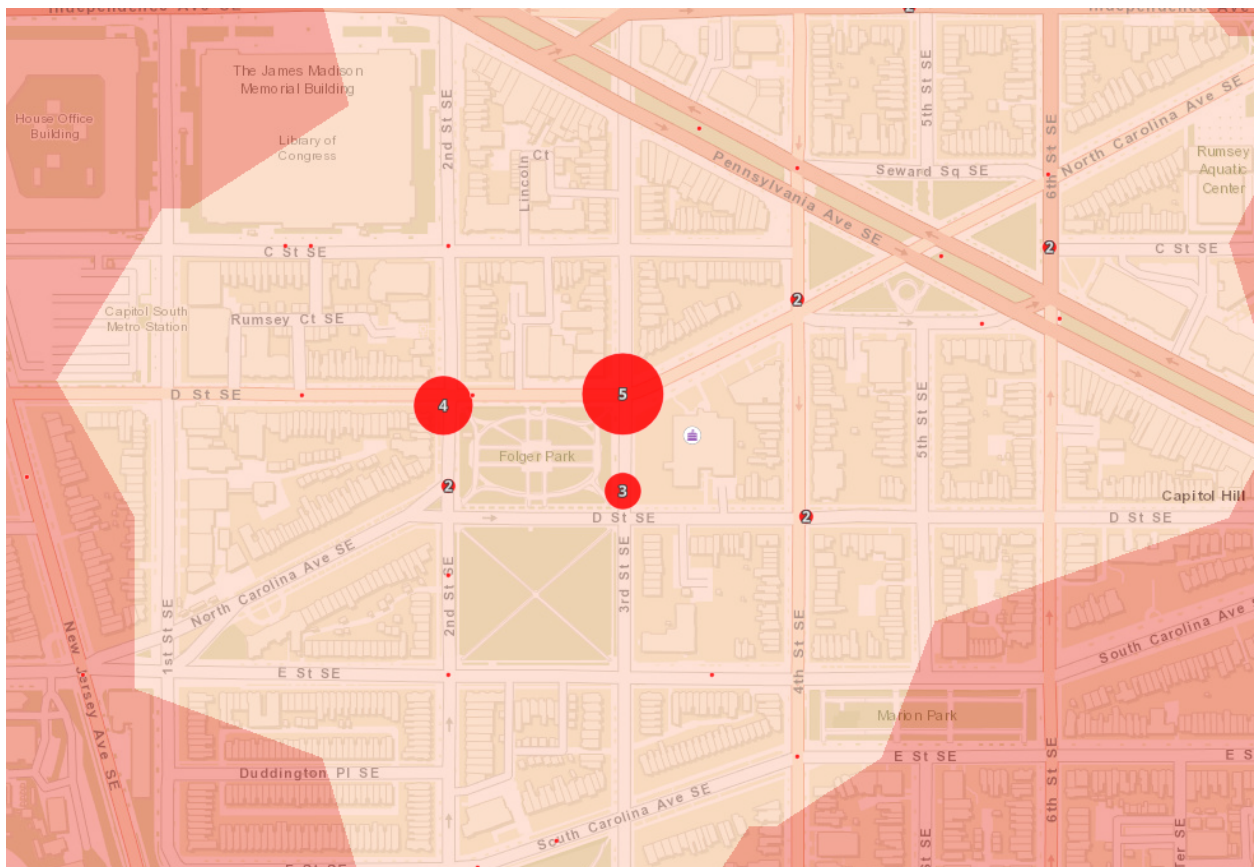
Ch 1— location of schools and and time required to travel (darker = longer)



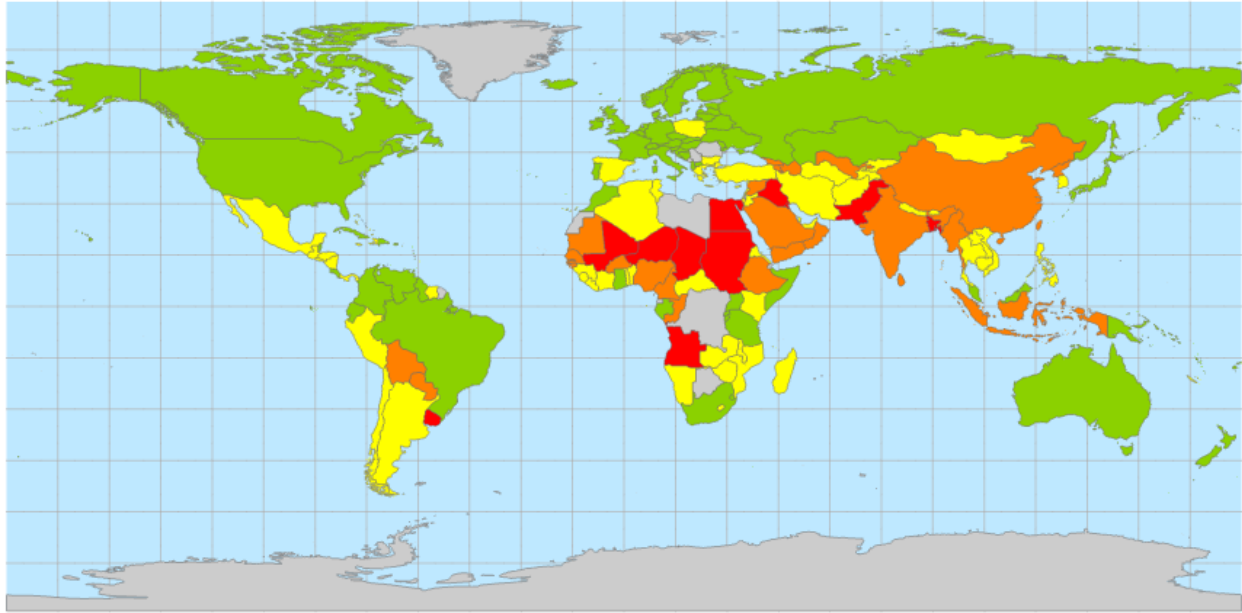
Ch 1— clustering of dangerous traffic incidents (running red lights, not stopping for pedestrians, running stop signs, speeding)



Ch 1— configured pop up; pop up selected is the highlighted cluster of 6



Ch 1— school zone, close walking distance, high level of dangerous incidents in the area.

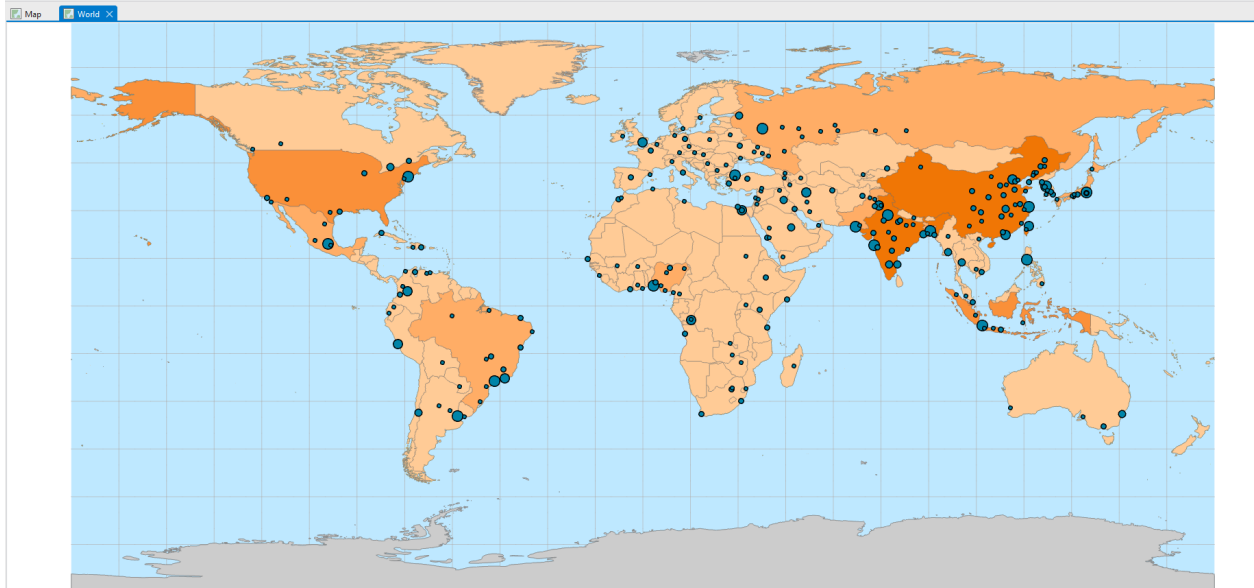


Ch 2— Air pollution by country (darker values higher PM than lighter values). The continent of Africa has the greatest overall air pollution by country, followed up by Eurasia.

OBJECTID	Shape	FIPS_CNTRY	GMI_CNTRY	ISO_ZDIGIT	ISO_ZDIGIT	ISO_NUM	CNTRY_NAME	LONG_NAME	ISOHRTNAM	UNSHRTNAM	LOCSHRTNAM	LOCLNGNAM	STATUS	POP2007	SQKM	SQMI	LAND_SQKM	COLORMAP	cntry_ipc
138	Polygon	CH	CHN	CN	CHN	156	China	People's Republic of C...	China	China	Zhong Guo	Zhonghua Renmin Gu...	UN Member State	1321851888	9402886.98	3630454.7	9326410		2
114	Polygon	IN	IND	IN	IND	356	India	Republic of India	India	India			UN Member State	1129866154	3153009.5	1217377.13	2973190		5
106	Polygon	US	USA	US	USA	840	United States	United States of Amer...	United States	United States of Ameri...			UN Member State	301139947	9462695	3639492.5	9161923		5
169	Polygon	ID	IDN	ID	IDN	360	Indonesia	Republic of Indonesia	Indonesia	Indonesia	Indonesia	Republik Indonesia	UN Member State	234689997	1847023	713129.44	1826440		1
7	Polygon	BR	BRA	BR	BRA	75	Brazil	Federative Republic of...	Brazil	Brazil	Brasil	Republica Federativa...	UN Member State	190010647	8493132	3279198.25	8456510		6

OBJECTID	Shape	CITY_NAME	GMI_ADMIN	ADMIN_NAME	FIPS_CNTRY	CNTRY_NAME	STATUS	POP	POP_RANK	POP_CLASS
196	Point	Shanghai	CHN-SHN	Shanghai	CH	China	Provincial capital	14608512	1	5,000,000 and greater
12	Point	Buenos Aires	ARG-DFD	Distrito Federal	AR	Argentina	National and provinci...	13076300	1	5,000,000 and greater
166	Point	Mumbai	IND-MHR	Maharashtra	IN	India	Provincial capital	12691836	1	5,000,000 and greater
141	Point	Karachi	PAK-SIN	Sind	PK	Pakistan	Provincial capital	11624219	1	5,000,000 and greater
33	Point	Mexico City	MEX-DTD	Distrito Federal	MX	Mexico	National and provinci...	11285654	1	5,000,000 and greater
82	Point	Istanbul	TUR-IST	Istanbul	TU	Turkey	Provincial capital	11174257	1	5,000,000 and greater
144	Point	Delhi	IND-DEL	Delhi	IN	India	Provincial capital	10927986	1	5,000,000 and greater
223	Point	Manila	PHL-NCR	National Capital Region	RP	Philippines	National and provinci...	10444527	1	5,000,000 and greater

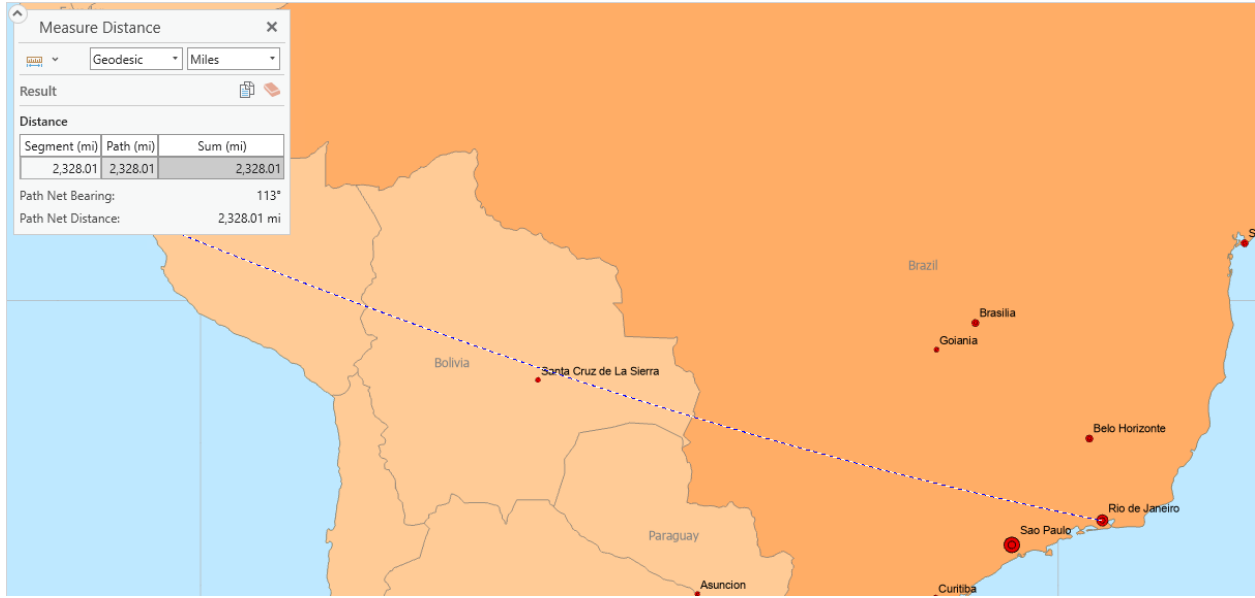
Ch 2— the city with the greatest population is Shanghai, China with 14,608,512 people.



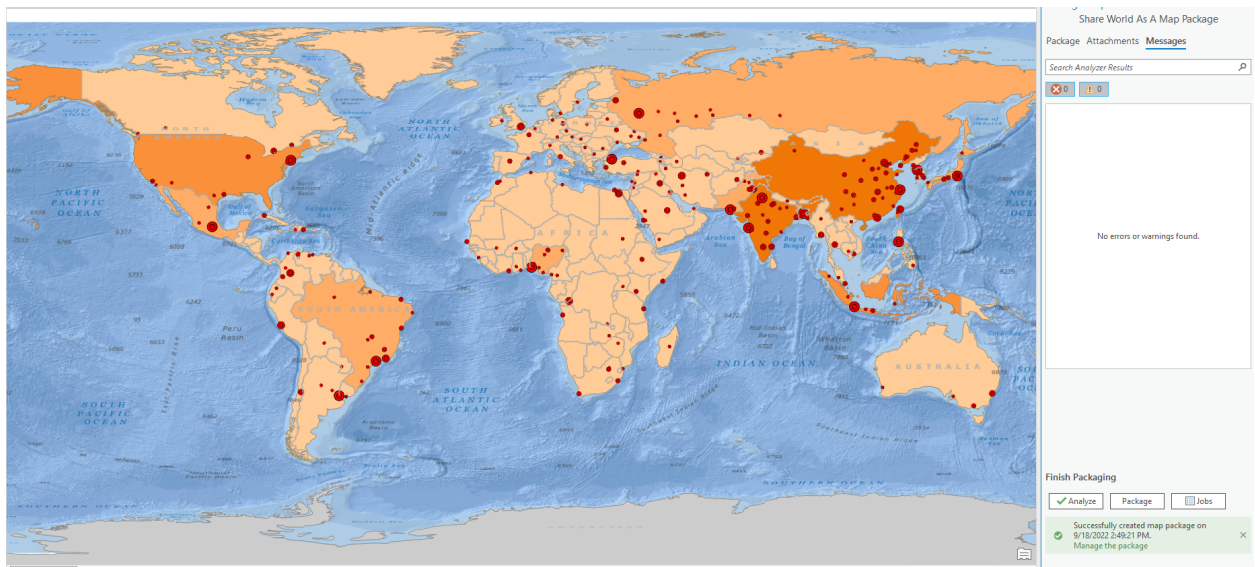
Ch 2— full extent of world map with country population and city population attributes showing.



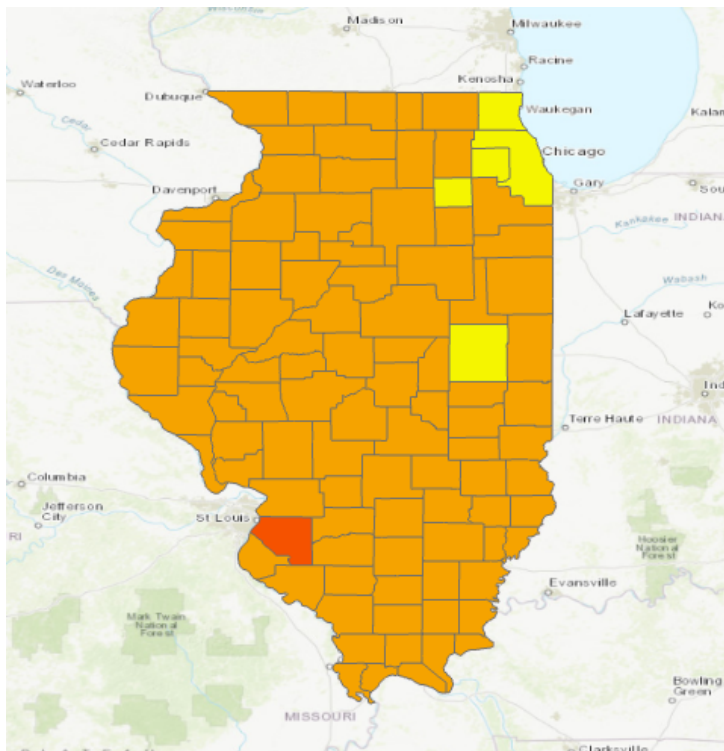
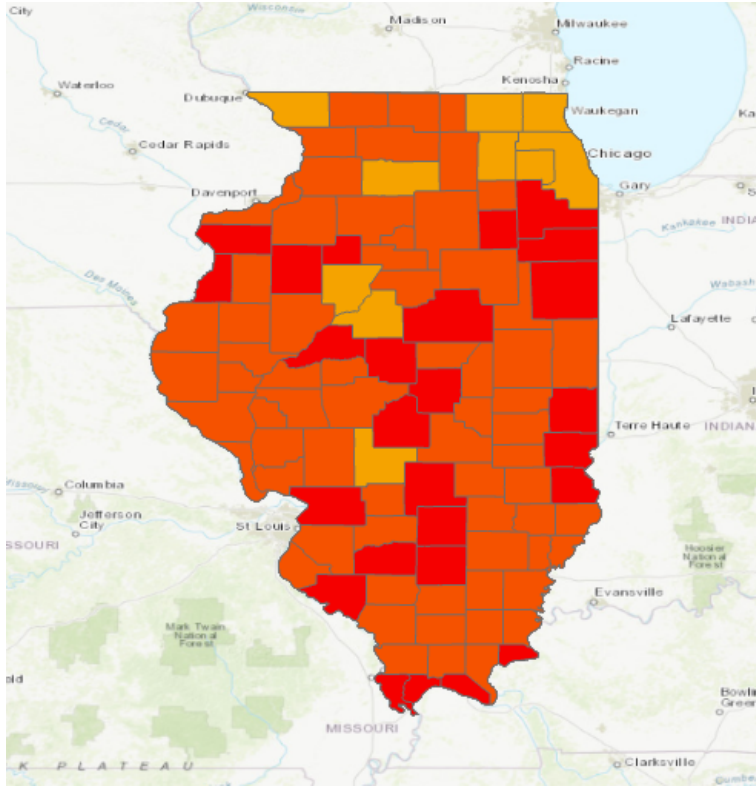
Ch 2— country and city names can be seen after zooming in from Full Extent. Country names are at a lower transparency than cities. City population centers can also be seen, as well as country population (graduated colors).



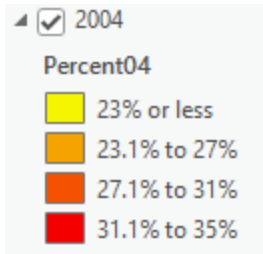
Ch 2— the distance measured between Lima, Peru and Rio de Janeiro, Brazil.



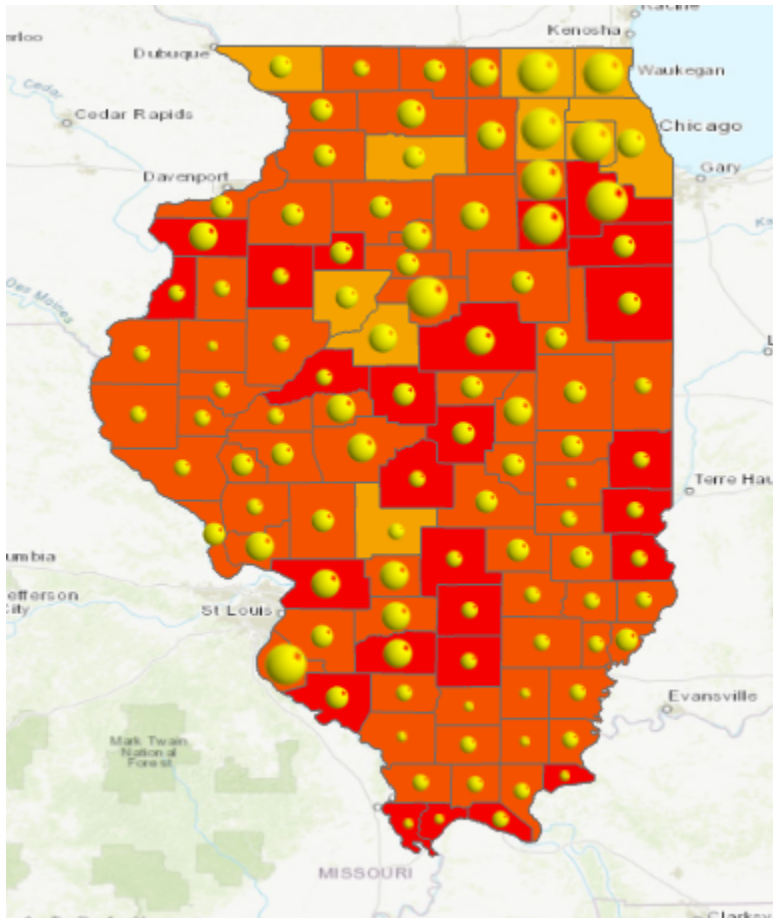
Ch 2— successfully exported/packaged map from exercise 2B with the new oceans basemap.



Ch3— Illinois county obesity by percent 2010 versus 2004

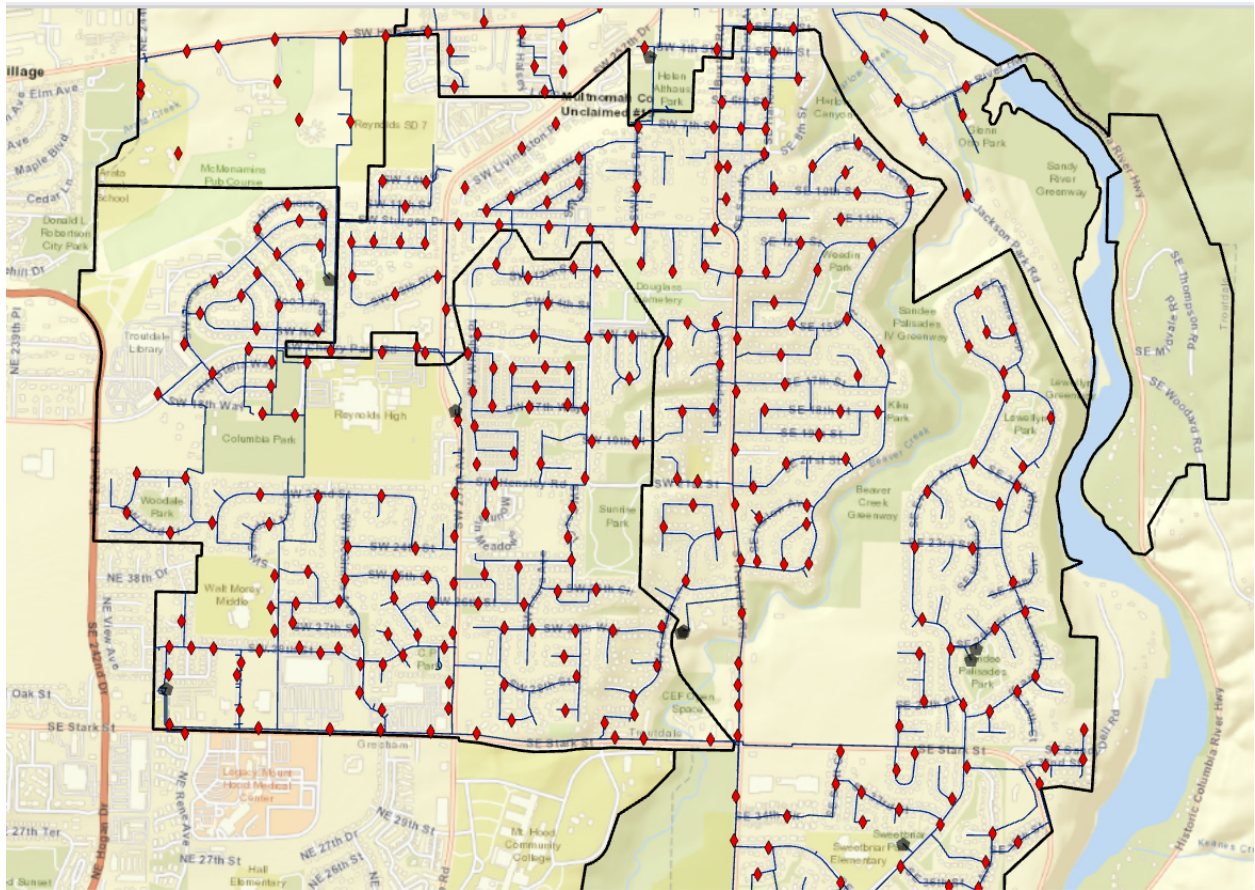


Ch3— scale for above maps



Ch3— higher obesity rates are typically in counties with lower median income

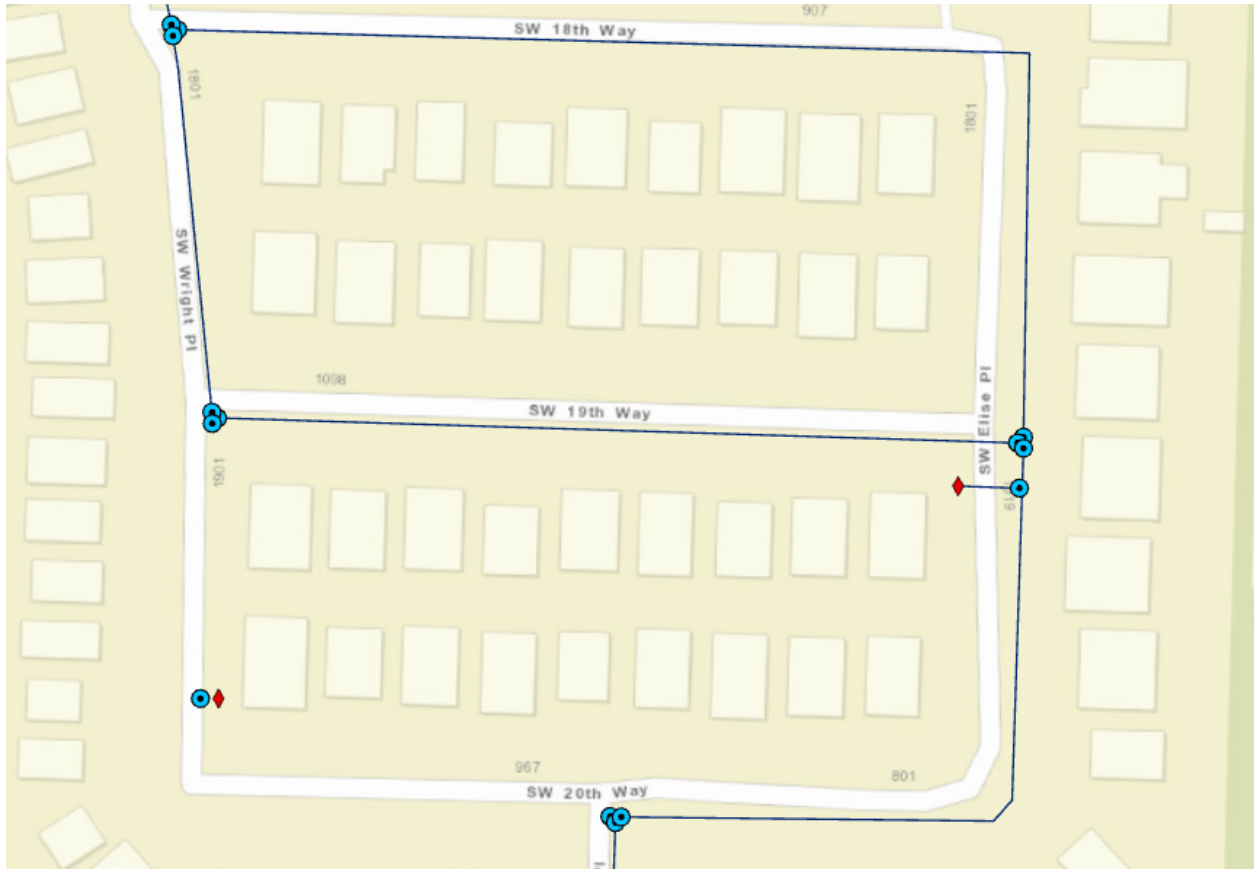
CH4



Ch4- zoomed to Wells layer; well, fire hydrants, water pressure zones, and water lines visible

POINT_X	POINT_Y
7719946.85313	677069.416325
7719960.19825	677313.335785
7719974.13523	677571.099377
7719975.10308	677572.200753
7720096.87809	677561.111864
7719591.2131	677435.503519
7719652.52596	677724.22932
7721090.6973	678336.349487
7720989.30544	678412.527812
7720987.8937	678414.074725
7719552.20431	676571.470471
7719926.82627	676810.427998

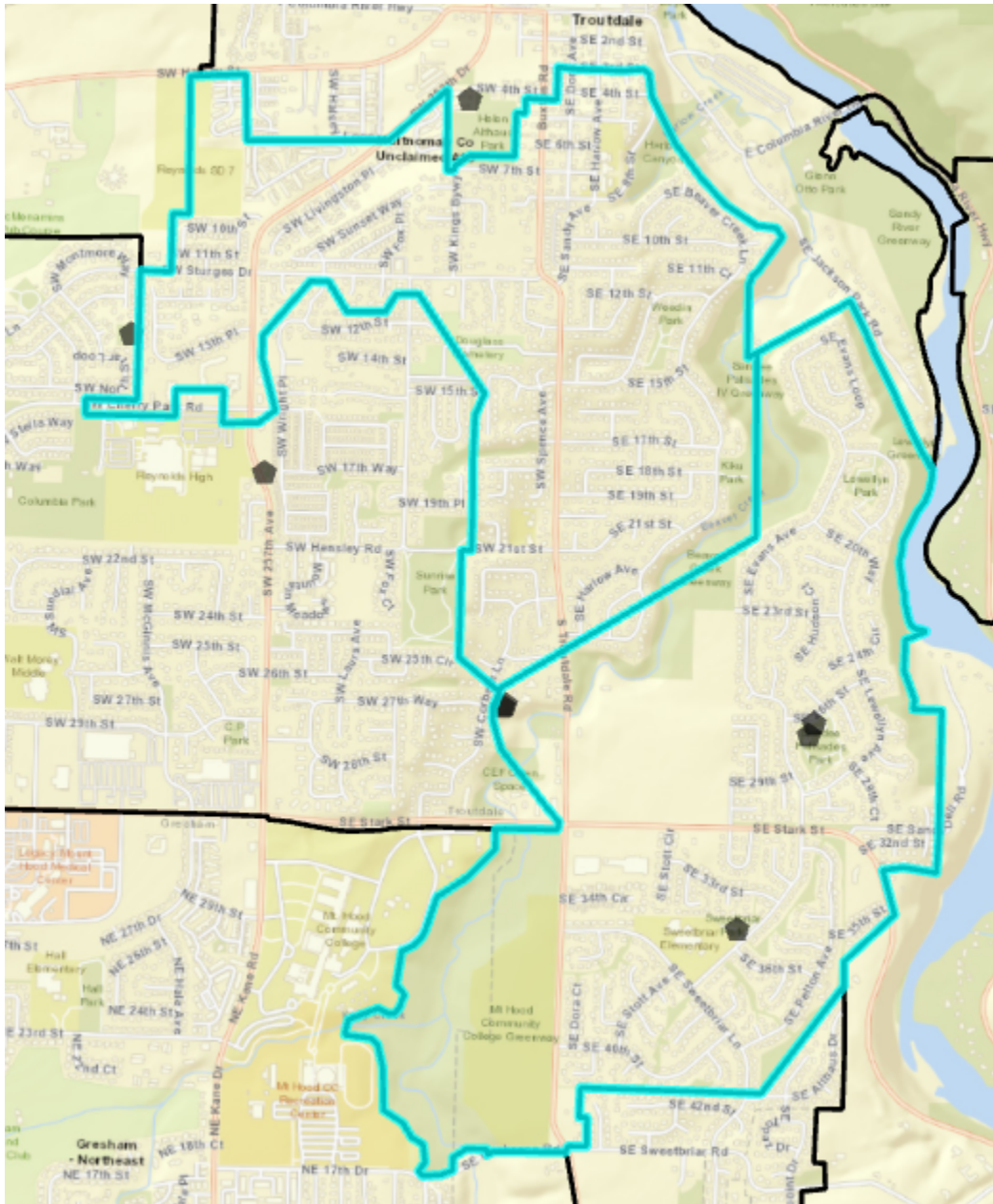
ch4- point x and point y data points from the valves.csv file



Ch4- the area of the map missing two connection lines (water lines)

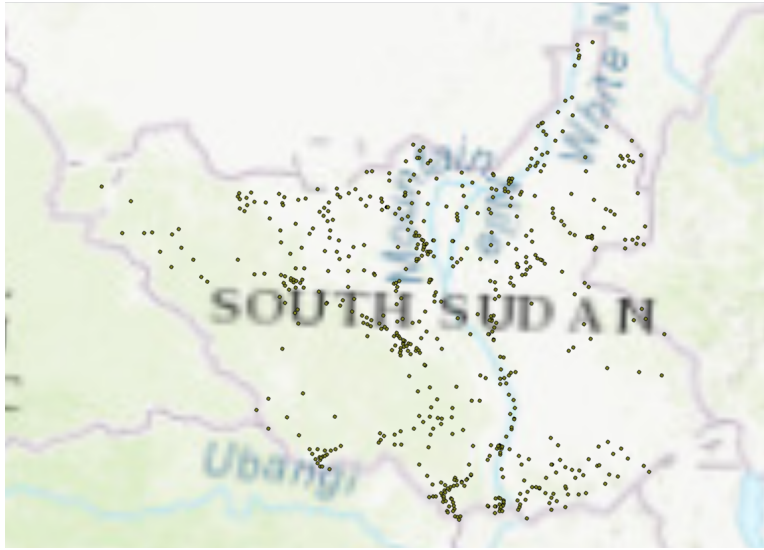


Ch4– the new waterline(s) created to connect the vertices

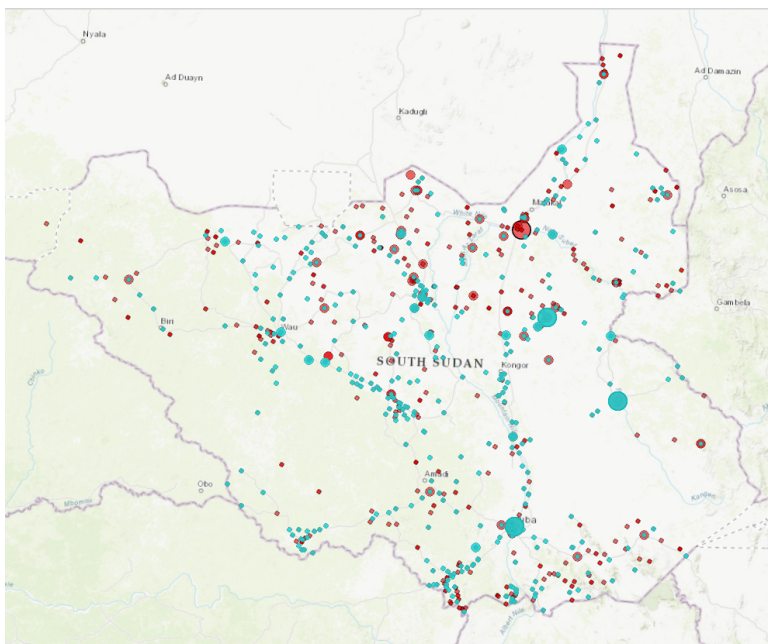


Ch4– the split water pressure zone

CH5

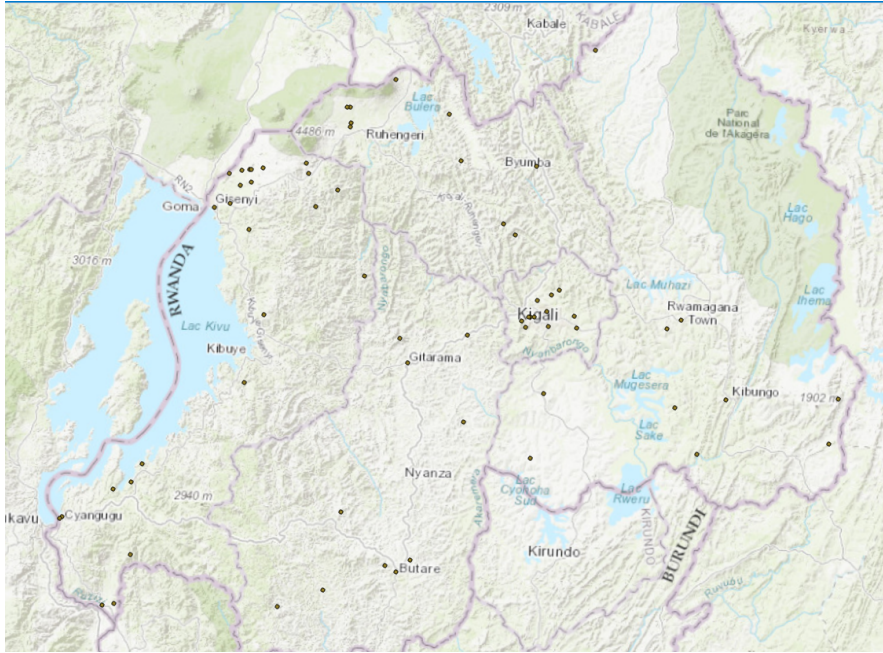


Ch5— South Sudan conflicts 2011-2018

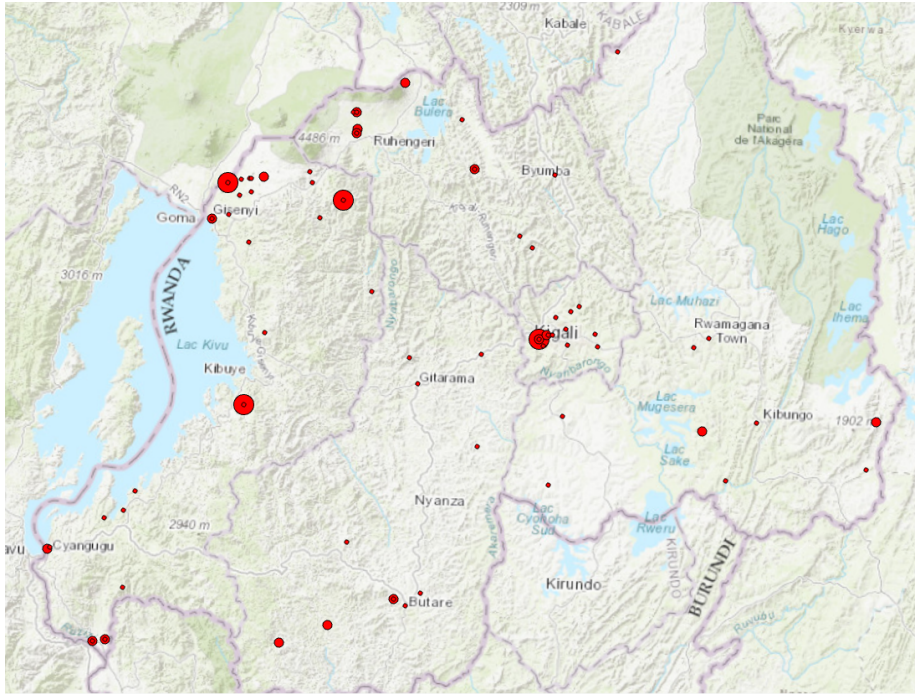


Ch5— Highlighted incidents of violence against civilians which resulted in fatalities. Graduated symbols used (blue is highlight)

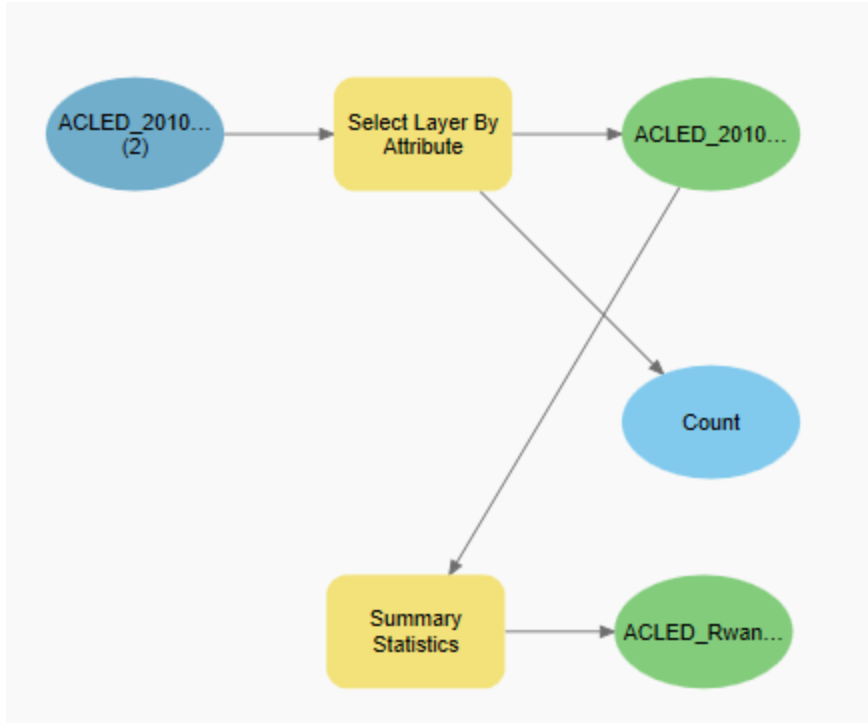
There were 14,211 recorded fatalities between 2011 and 2018 in South Sudan according to ACLED statistics.



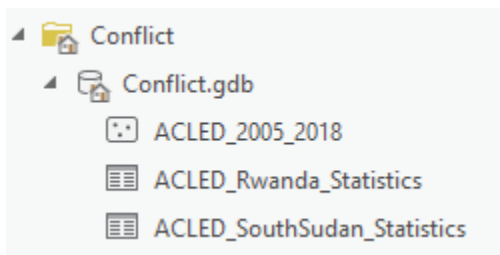
Ch5— Rwanda ;2010-2018 data



Ch5— Rwanda data with graduated symbols



Ch5— modelbuilder tool working with ACLED_2010_2018_Rwanda data



Ch5— the two created attribute tables from previous exercises

There were 71 fatalities from violence against civilians incidents in Rwanda between 2010 and 2018.

There were 41 events indicated to be riots/protests with a cumulative 12 fatalities in Rwanda between 2010 and 2018.

```

arcpy.management.SaveToLayerFile("ACLED_2010_2018_Nigeria", r"C:\Users\labpublic\Downloads\GEGO_191\EsrIPress\EsrIPress\GTKAGPro\Conflict\ACLED_2010_2018_Nigeria2.lyrx", None, "CURRENT")
<Result 'C:\Users\labpublic\Downloads\GEGO_191\EsrIPress\EsrIPress\GTKAGPro\Conflict\ACLED_2010_2018_Nigeria2.lyrx'>
arcpy.management.SaveToLayerFile('ACLED_2010_2018_Nigeria', 'ACLED_2010_2018_Nigeria', 'RELATIVE', 'CURRENT')
Traceback (most recent call last):
  File "<string>", line 1, in <module>
  File "C:\Program Files\ArcGIS\Pro\Resources\ArcPy\arcpy\management.py", line 10723, in SaveToLayerFile
    raise e
  File "C:\Program Files\ArcGIS\Pro\Resources\ArcPy\arcpy\management.py", line 10720, in SaveToLayerFile
    retval = convertArcObjectToPythonObject(gp.SaveToLayerFile_management(*gp_fixargs((in_layer, out_layer, is_relative_path, version), True)))
  File "C:\Program Files\ArcGIS\Pro\Resources\ArcPy\arcpy\geoprocessing_base.py", line 512, in <lambda>
    return lambda *args: val(*gp_fixargs(args, True))
arcgisscripting.ExecuteError: Failed to execute. Parameters are not valid.
❌ ERROR 000725: Output Layer: Dataset C:\Users\labpublic\Downloads\GEGO_191\EsrIPress\EsrIPress\GTKAGPro\Conflict\ACLED_2010_2018_Nigeria.lyrx already exists.
Failed to execute (SaveToLayerFile).
arcpy.management.SaveToLayerFile('ACLED_2010_2018_Nigeria', 'ACLED_2010_2018_Nigeria3', 'RELATIVE', 'CURRENT')
<Result 'C:\Users\labpublic\Downloads\GEGO_191\EsrIPress\EsrIPress\GTKAGPro\Conflict\ACLED_2010_2018_Nigeria3.lyrx'>

```

Ch5— python script (I messed up on a line (I forgot to add a 3 at the end of one of the files)).

The Select and Summarize script included in the toolbox combines the Select By Layer Attributes tool and the Statistics Analysis tool.

There were 3,470 incidents of violence against civilians with 26,323 fatalities.