Data Dictionary and Sample Procedure Document

Jack Zamary's Lab 8 Data Dictionary

Lab Step	**Layer Name**	**Description**	**Modifications/Calculations/Description**
Starting Data	POPULATED_PLACES	Populated places within the study area	Copy and project in environments
Starting Data	ROADS	Roads	Copy and project in environments
Starting Data	RIVERS	Rivers	Copy and project in environments
Starting Data	AFRICAN_ELEPHANT_RANGE	African elephant range, which shows individual populations across the four country study area	Define Projection tool
Starting Data	ELEPHANT_POPULATION_COUNTS	Elephant population counts table	Copy and project in environments
Starting Data	PROTECTED_AREAS	Protected areas	Copy and project in environments
Starting Data	KUTM_COUNTRIES	Study area countries Kenya, Uganda, Tanzania, Mozambique	Copy and project in environments
Starting Data			
1.1	AFRICAN_COUNTRIES	African Countries	Layer projected from GCS into Africa_Albers_Equal_Area_Conic
1.2	RANGE_TABLE_JOIN	Number of Elephants per range	ELEPHANT_POPULATION_COUNTS joined to AFRICAN_ELEPHANT_RANGE, exported to new feature class
1.3	Best_Protected_Areas	Areas of category II ,III, or IV	Select by attribute was ran on the **Protected_areas** class

2a	Protected_Range_Intersect	Protected ranges solely located in African Elephant ranges	Used the *intersect* geoprocessing tool Areas common to both **Best_Protected_Areas** and **Range_Table_Join**
2b	Protect_Range_Dissolve	Same as **Protected_Range_Intersect** but values have been dissolved (reduced) to just display information once for every Range	Used *dissolve* geoprocessing tool based on the **UniqueID** value Dissolve used to remove duplicate values
3.1.3	pop_range_join	Illustrates populated places within elephant ranges	Used *contained* within the spatial join Spatial join between **African_elephant_range** and **Populated_places**
3.2.1	Roads_Range_Intersect	Isolation of roads to just be present in elephant ranges	*Intersect* tool Intersection between **roads** and **African_Elephant_range**
3.2.1	Road_Range_Dissolve	Same as **Roads_Range_Intersect** but values have been dissolved (reduced) to just display information once for every Range	*Dissolve* tool Dissolve of **Road_Range_Intersect**
3.2.3	Pop_Range_Road_Join	Displays roads in elephant ranges with population information	Add *join* Joined tables from **road_range_dissolve** and **Pop_Range_Join**
4.1	Range_Rivers_Intersect_01	Adding river attributes to oth important attributes in **Range_Table_Join** to run spatial analysis	*Intersect* tool Intersect between **River** and **Range_Table_Join** where Regime is only equal to 1
4.1	Range_Rivers_Dissolve	Dissolve used to	*Dissolve* tool

		narrow down the data set to 19 values of the elephant ranges	Dissolved Shape_Length class to each elephant polygon
4.1	Range_River_Buffer	3 km buffer around all rivers in an elephant polygon	*Buffer* tool with 3 km attribute applied around rivers
4.1	Range_River_BufInt	Intersect of the buffer layer to remove outlying river values that are outside of the elephant ranges	*Intersect* tool Intersect of **Range_River_Buffer** to elephant polygons to maintain extract values
4.1	Range_River_BufInt_Dissolve	Buffer of previous layer to remove overlapping values that were present in **Quirimbas** and **Selous-Niassa**	*Dissolve* tool Dissolve of the **Range_River_BufInt** layer to remove overlap between protected ranges
4.1	Range_Rivers_Join	Join created to gain all statistical information including Km2 to answer extra credit questions	Add *Join* Join between **Range_River_BufInt_Dissolve** and **pop_range_raod_join** to gain all values necessary to answer the extra credit question
5	Africa_shp_prj	Projected African Countries imported	*Copy Feature* and *project*