

How to use the LET to estimate base or starting loads from a project treatment area to Lake Okeechobee:

1. Open ArcMap to use the GIS tools.
2. Add shapefile(s) to your MXD
 - a. Shapefile(s) of your project treatment area(s)
 - b. LET shapefile(s) representing the subwatershed where your project is located
3. Use the **Analysis→ Extract→ Clip** tool to “Clip” out the portion of the LET shapefile that falls within your treatment area shapefile.
4. Open the attribute table for the newly created, clipped shapefile.
5. Recalculate the **Acres** field using the “Calculate Geometry” function.
 - a. Use the coordinate system of the data source
 - b. Units = Acres US [ac]
6. Field calculate the **GWTN_LOAD**, **GWTP_LOAD**, **ROTN_LOAD**, and **ROTP_LOAD** fields using the following formulas:
 - a. $\text{GWTN_LOAD} = [\text{GWTN_kgacy}] * [\text{Acres}]$
 - b. $\text{GWTP_LOAD} = [\text{GWTP_kgacy}] * [\text{Acres}]$
 - c. $\text{ROTN_LOAD} = [\text{ROTN_kgacy}] * [\text{Acres}]$
 - d. $\text{ROTP_LOAD} = [\text{ROTP_kgacy}] * [\text{Acres}]$
7. Sum all features to get loads for the entire area. (Open the *.dbf of your newly created shapefile in Excel or use the **Analysis→ Statistics→ Summary Statistics** tool)
 - a. Sum the **GWTN_LOAD** for all features to get your total nitrogen groundwater load from the treatment area.
 - b. Sum the **GWTP_LOAD** for all features to get your total phosphorus groundwater load from the treatment area.
 - c. Sum the **ROTN_LOAD** for all features to get your total nitrogen runoff load from the treatment area.
 - d. Sum the **ROTP_LOAD** for all features to get your total phosphorus groundwater load from the treatment area.
8. Sum the GW and RO TN_LOAD to get your total nitrogen base load and the GW and RO TP_LOAD to get your total phosphorus base load.