

Process for creating CPL Stats Combined at Multi-Location Intersections.

Matthew Nicoll, 2018-11-17

This is done every 3 years by Chuck Hutchinson, in 2015, 2018...

After the 2018 process, VB code developed for the job (by Matthew Nicoll) was moved into CISutil.

(Simplified file names and CIS collision subset names are highlighted.)

1. Run a **CIS** Query selecting the required years of data, creating SubsetA.
2. Run **CIS** CPL on SubsetA, using simple criteria (#clsns >=1) creating IN and NOT IN CPL output subsets Subset_Intersections and (for other purposes) Subset_Segments
3. Use the Rate Table program to determine Average Collision Rates from Subset_Intersections.
4. Manually code the average collision rates into file ACR.csv
5. Run **CIS** CPL on Subset_Intersections, providing ACR.csv, and the desired detailed criteria, creating CSV output file CPL.csv. (Using input SubsetA would work just as well.)
6. Run **CISutil** (version 4.4.0 or later) SDF tab function "CPL to SDF, Grouped at Intersections", with: input file CPL.csv. the "Nodes Once" option checked, the same LKI version as in CIS, to produce Section Definition File SDF_CPL.csv which has additional sections defined so that locations which have multiple LKI location codes (e.g. at intersections on divided highways) have a section defined for each of the LKI location codes.

Note:

- the "Nodes Once" limits to one section per node,
- a "section" in this SDF is actually just a single location

This runs CISutil module CPL_utils Sub CPL_to_SDF_Grouped

Note:

- this CISutil function requires LKI version 201807 or later
- in October 2018, LKI_Code.mdb Sub CPL_to_SDF_NodesOnce was used, with LKI 201707b, with the Intersection table data of the 201807 LKI.

7. In **CIS**, run SSA with input subset IN_CPLs, and input Section Definition File SDF_CPL.csv producing output file SSA.csv
8. In Excel, sort SSA.csv by GroupID, (because the following step requires all the records of each group to be together.)
9. In **CISutil**, run SSA tab function "Combine Intersection Locations", with input file SSA.csv, producing output file SSA_Combined.csv which has a set of SSA fields modified for Chuck Hutchinson's requirements.
10. In CISutil, run SSA tab function "Create KML from CPL or Combined Int. Locns" with input file SSA_Combined.csv and the LKI version as in CIS, producing file SSA_Combined.kml