

# CHUCL: a contributing watersheds tool



Ray Hennings | Geog 590 | Winter 2011

## Purpose



For a given USGS gauge station on a stream, determine the upstream extent of the contributing watershed

## Data

- USGS\_HUC8.shp
  - HucName
  - Hydroid
  - NextDownID
  - AreaSqKm

HUC	HucName	Hydroid	NextDownID	AreaSqKm
10010000	10010000	10010000	10010000	10010000
10010001	10010001	10010001	10010001	10010001
10010002	10010002	10010002	10010002	10010002
10010003	10010003	10010003	10010003	10010003
10010004	10010004	10010004	10010004	10010004
10010005	10010005	10010005	10010005	10010005
10010006	10010006	10010006	10010006	10010006
10010007	10010007	10010007	10010007	10010007
10010008	10010008	10010008	10010008	10010008
10010009	10010009	10010009	10010009	10010009
10010010	10010010	10010010	10010010	10010010
10010011	10010011	10010011	10010011	10010011
10010012	10010012	10010012	10010012	10010012
10010013	10010013	10010013	10010013	10010013
10010014	10010014	10010014	10010014	10010014
10010015	10010015	10010015	10010015	10010015
10010016	10010016	10010016	10010016	10010016
10010017	10010017	10010017	10010017	10010017
10010018	10010018	10010018	10010018	10010018
10010019	10010019	10010019	10010019	10010019
10010020	10010020	10010020	10010020	10010020

## Operation

Contributing HUC List (CHUCK)

Open File: \_\_\_\_\_

Select Target HUC: \_\_\_\_\_

Verify Target HUC: \_\_\_\_\_

Target HUC: LOWER WILLAMETTE

Show Upstream HUCs: \_\_\_\_\_

Total Area (Sq Km): 20774.75

Contributing HUCs:

- CLACKAMAS
- COAST FORK WILLAMETTE
- WICKIACUM
- MIDDLE FORK WILLAMETTE
- MIDDLE WILLAMETTE
- MOLALLA FLOODING
- NORTH SANTIAM
- SOUTH SANTIAM
- TUMALATIN
- UPPER WILLAMETTE
- TARRANT

Clear: \_\_\_\_\_

- Open USGS\_HUC8
- Select target HUC
- Verify Target
- List Contributing HUCs
- Compute Area



## Limitations / Enhancements

- Tool reliant on single dataset
- Data quality Issues
- Junctions
- ✓ Multiple Select
- ✓ Select by Attributes
- ✓ BAGIS integration