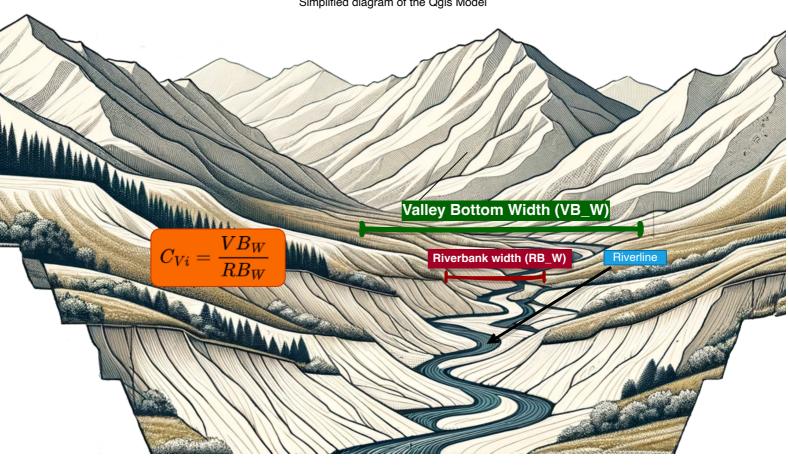
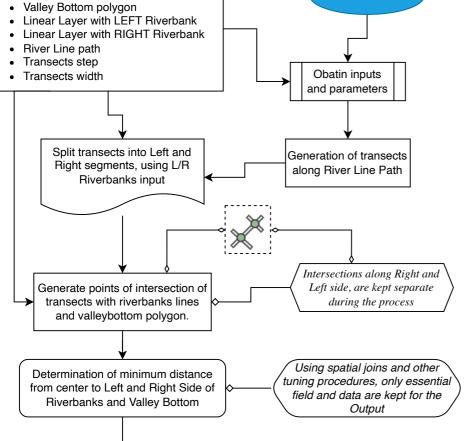
Confined Valley Index

Simplified diagram of the Qgis Model



START

Inputs



Description

The algorithm is used to calculate the relationship between the width of the ValleyBottom and the banks of a river.

Transects are generated, at constant pitch, along the river axis; they intersect the right bank, the left bank and the ValleyBottom polygon.

The distances between the river axis and the intersections are calculated, the minimum value is

In Output a layer of points along the river axis containing the calculated data is generated:

- SEZ-ID: transect identifier (key field).
- VB_RB-index: Ratio of ValleyBottom Width to Riverbank Width.
- RB-W: River bank width
- VB-W: Width of the Valley Bottom
- min-RB-R: Minimum distance to the Right Bank of the river
- min-RB-L: minimum distance with the Left Bank of the river
- min-VB-L: minimum distance with the Left ValleyBottom
- min-VB-R: minimum distance with the ValleyBottom Right
- transect_d: distance along the river path

Available files and tested with: Qgis - 3.28.11 - Firenze

OUTPUT: Points Shapefile