

IDW (Dialog box)

Gives values to each cell in the output grid theme by weighting the value of each point by the distance that point is from the cell being analyzed and then averaging the values.

Dialog box options

Nearest Neighbors Uses the N nearest points to the cell being analyzed. Type in a value for N in the **No. of Neighbors** type-in box.

Fixed Radius Uses all points within a distance of the cell being analyzed. Type in a value for the distance in the **Radius** type-in box. If the distance units for the view are set, then the distance will be in distance units. If the distance units are not set, then the distance will be in map units.

Power The exponent of distance used in the calculation. Controls the significance of surrounding points on the value given to the cell being analyzed. A higher power results in less influence from distant points.

Barriers Used to limit certain points from being used in the calculation of a new value for a cell, even if the point is one of the nearest neighbors or within a certain distance. You wouldn't want to use an elevation point on one side of a ridge to create an elevation value on the other side of the ridge. Barriers can be

- No Barriers
- <Line Theme> - Sets the barriers to whichever line theme you choose in the view.