



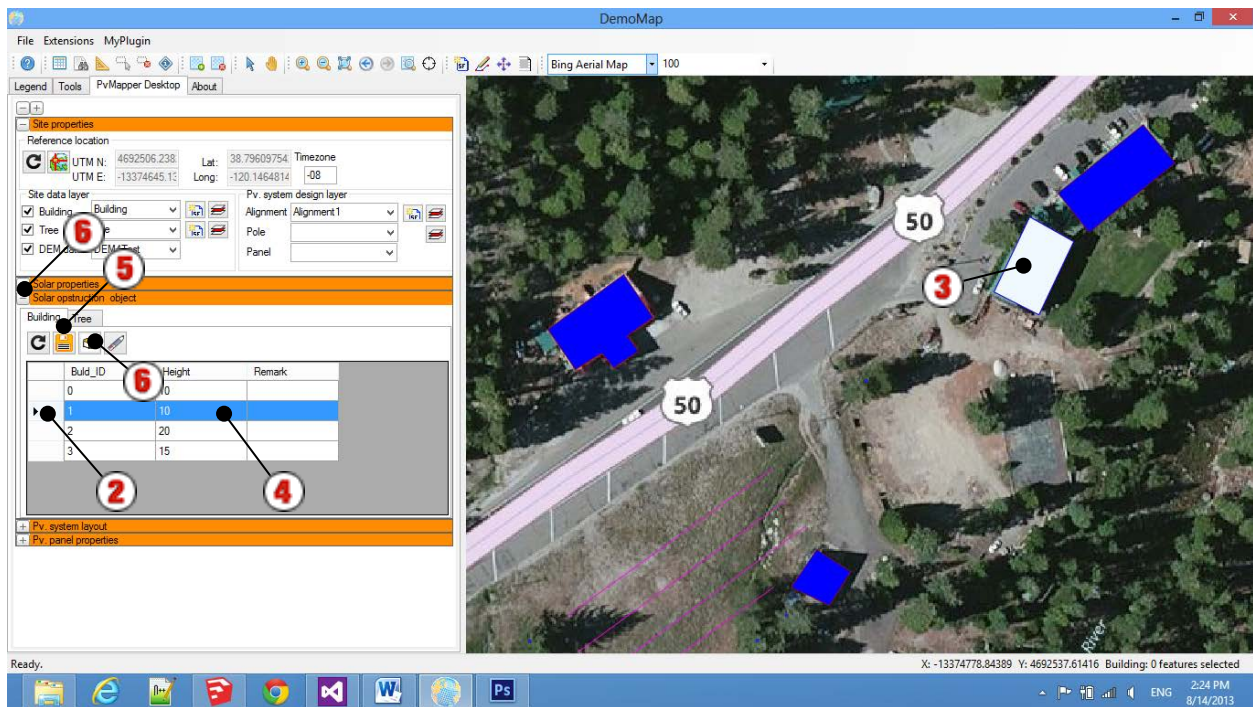
Solar obstruction object

PvDesktop can store buildings and trees as solar obstruction objects. Both data sets are shapefiles (two dimensional). This requires height data for buildings, and height and shape for trees. The next paragraph describes how to assign and work with this data.

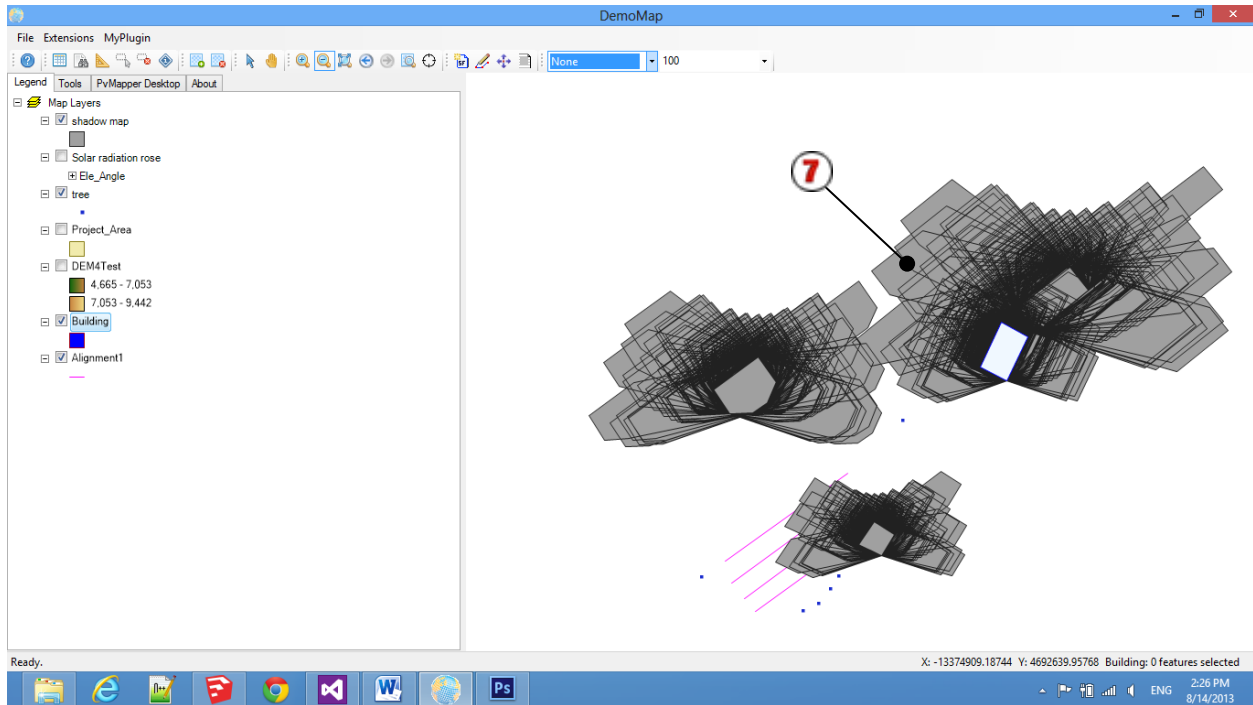
1 Building data

To assign building height and compute the affected area (the building's shadow) the user can do the following:

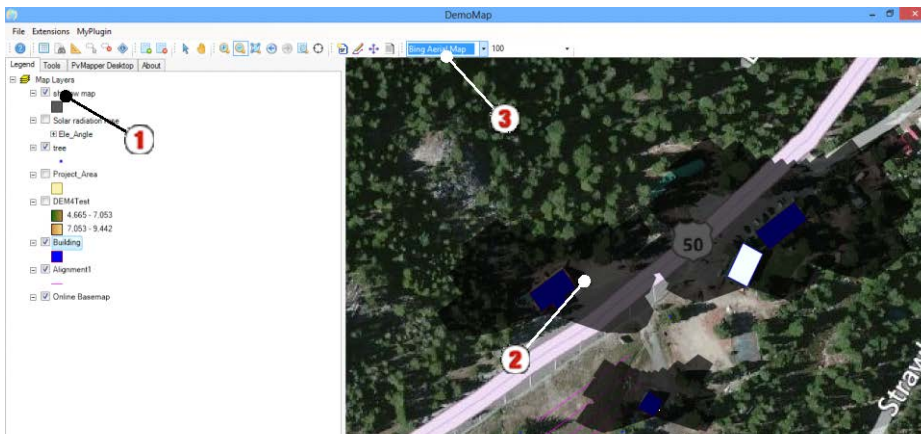
1. Open the Solar obstruction section
2. Click a row in the table to select an active building
3. The selected building is highlighted on the map
4. Assign building height
5. Click the  button to save the data
6. Click the  button to perform a shadow analysis



7. The shadow analysis result are shown on the map as a GIS layer




The user can display the shadow as a transparent layer by using layer properties and overlaying it on the online map.

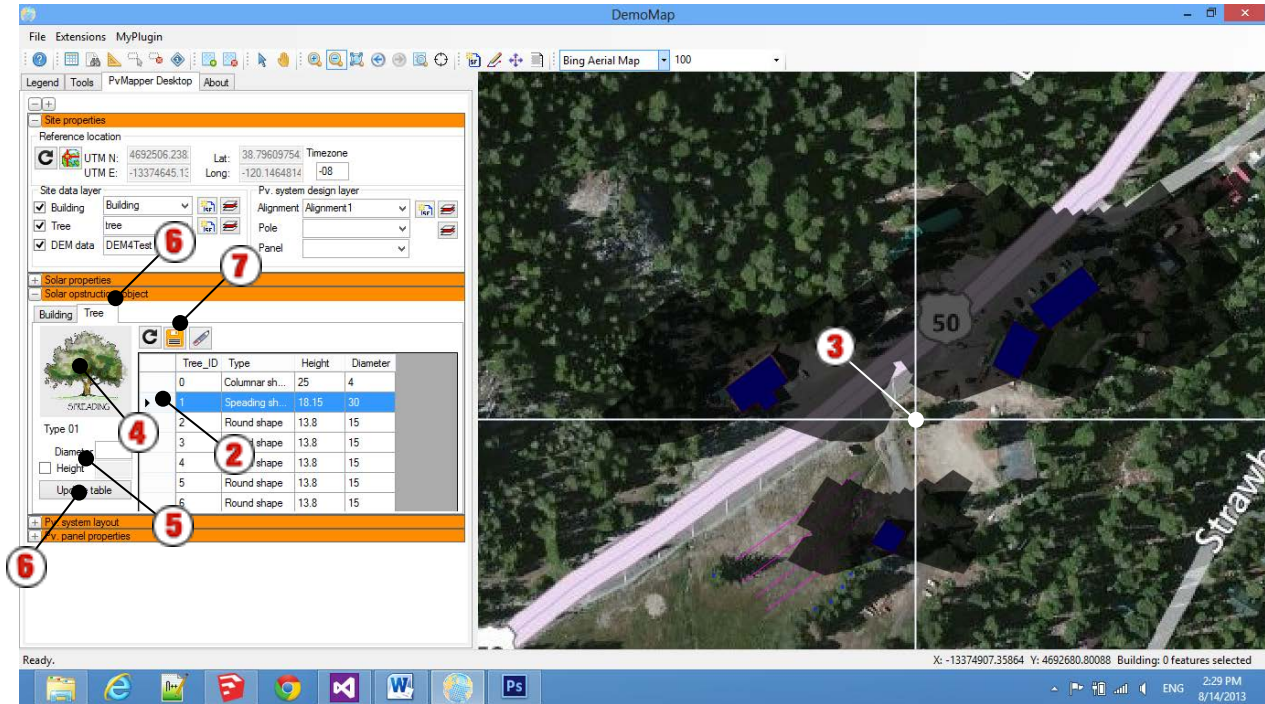


2 Tree data

Tree data needs 3 important parameters: tree height, diameter and type of tree. To assign their value the user can do the following:

1. Click the tree tab





















2. Click a row in the table to select an active tree
3. The selected tree will be shown on the map
4. Click the tree picture to select tree type (right-click shows the previous selection) look at table xx for the 10 types of PvDesktop trees.
5. Assign tree diameter; for this step the user can automatically assume tree height or manually assign tree height.
6. Click update data
7. Click the  button to save the data



After saving tree data PvDesktop will show tree symbols as green trees.



Table 1 Tree forms detail

Symbol	Sample picture	Name
 SPREADING		Spreading form
 PYRAMIDAL		Pyramidal form
 ROUND		Round form
 OVAL		Oval form
 CONICAL		Conical form
 VASE		Vase form
 COLUMNAR		Columnar form
 OPEN		Open form
 WEeping		Weeping form
 IRREGULAR		Irregular form