

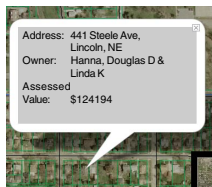
# Use Google Maps to View WMS Layers

Layers selected from a TNTserver site or from any other Web Map Service (WMS) compliant server (ISO 19128) can be displayed in TNTmap Viewer, TNTmap Open, Google Maps, Google Earth, or World Wind using TNTmap Builder. This display can be immediate (the designated application is launched with the selected layers in place) and/or the



web map content can be saved for subsequent use (see the back of this page). When you launch into Google Maps using the icon in TNTmap Builder, you are using the Google Maps API together with extensions provided by the TNTmap web application or executable version. In the TNTmap version of Google Maps, you have the option of combining WMS layers (in other words, the layers selected for the Main View) with the Google Maps base layers (map, satellite, or hybrid) and/or the Google Maps overlay layer. You can also choose a WMS layer to be a base layer. For example, the transparent Google map layer can be overlaid on your georeferenced and rectified images or orthophotos offered by TNTserver or any other WMS. Another option would be to overlay your transparent, styled vector layer from TNTserver on the Google imagery in addition to or in place of the Google map layer. The Google Maps search tools are also supported for moving directly to any location indexed by Google (for example, house address, business, city, or state). A feature can be measured using the tools provided by TNTmap. Information about individual features can also be displayed from the layers as a response from a TNTserver to a GetFeatureInfo request (for TNT objects these are automatically the DataTips).

The Get Feature Info from the Web Map Server icon will change the cursor to a left arrow and



question mark that returns DataTip information set up in TNTmips at the location you click for layers from TNTserver or similar information from other WMSs that support Get Feature Info requests.

The Measure tool reports additive length of the line created as you click from one location to another.

Opens TNTmap Builder.

Go to address entered.

Enter any address indexed by Google Maps.

Pull-out Zoom Box supplements Google Maps' zoom tools (at left of window) with an elastic box to define the area to enlarge to fill the current view canvas.

The Google Maps overlay layer. Move highlighted layer up in list.

Use highlighted layer as base layer.

Move highlighted layer down in list.

Go to highlighted layer's extents.

Return list to original order.

Hide all overlays.

Delete all overlays.

WMS layers selected in TNTmap Builder for overlay. Any number of these layers may be turned on.

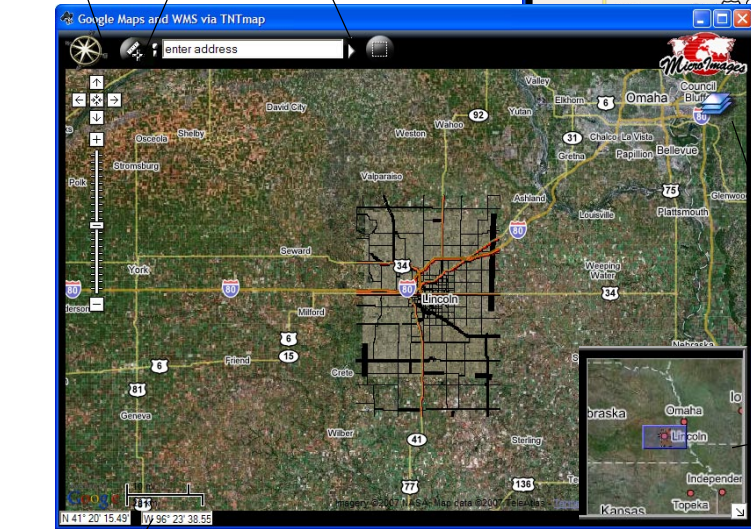
Toggle between available base layers.

Base layers from Google Maps and any WMS layer selected to be a base layer.

Layers list appears when you hover over this Layer Controls icon. The Layers list (shown above) closes when you move the mouse out of the list.

This is the standard overview provided by Google Maps that is derived from the layers in the current view. It does not use the layers on the Overview panel in TNTmap Builder.

This corner provides the ability to resize on the Macintosh. In Windows you can resize from any edge.



Geographic coordinate readout for cursor position is constantly updated.

The top illustration shows WMS layers over the Google map base layer. The bottom illustration shows the same WMS layers over the Google overlay map on top.

# Save Layers for Automated Restart in Google Maps (\*.htm Context)



The five Save As/Settings panels in TNTmap Builder let you save a context file for later, independent viewing of the currently selected layers on the Main View panel. This Web Map Service (WMS) content can be made up of layers from one or more WMSs. You can choose to save a context file for Google Maps (\*.htm), Google Earth (\*.kml), World Wind (\*.xml), TNTmap Open (\*.htm), or TNTmap Viewer (\*.htm or \*.cml). Double-clicking on a saved context file will launch the application that was selected when the context file was saved with the designated WMS layers in the correct location. The five Save As/Settings panels each provide the relevant options for one of the target web map applications listed above. The color plate entitled *TNTmap 2006:72: Saving and Using Contexts* provides general information on these various viewing contexts and how they are used in TNTmap. This same panel can be opened from the Change Settings icon at the top of TNTmap Builder.

Name to use for layers listed in your Main View when saved as a context file for automated reuse later.

**Installed Version:** you have the opportunity to alter this name when the file path is chosen if you forgot to alter it here or if you change your mind about the name you want.

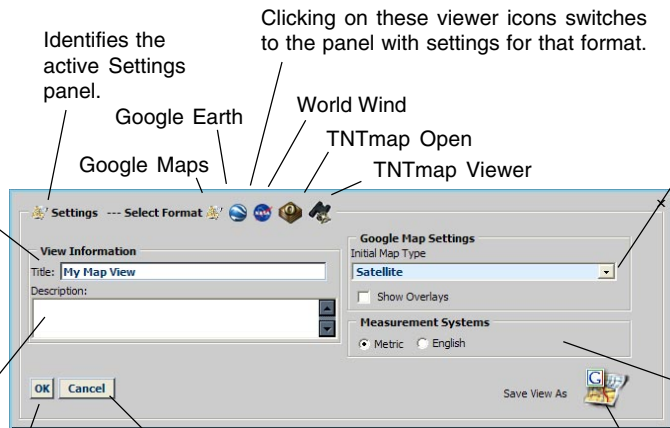
**Web Application Version:** this name will be assigned if **you permit** this context file to be saved. It will automatically be saved to the generic place your browser uses for any files **you trust and permit** to be saved.

Enter the desired description for inclusion in the web map context file (\*.htm).

Saves current settings as your default parameters. A context file *will not be saved*.

**Installed Version:** units and initial map type are saved for automatic use for future Google Maps.

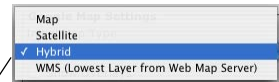
**Web Application Version:** these settings only apply to the current session of TNTmap. They are not saved for use the next time you launch Google Maps from a new TNTmap session.



Identifies the active Settings panel.

Clicking on these viewer icons switches to the panel with settings for that format.

Google Earth  
World Wind  
TNTmap Open  
TNTmap Viewer  
Google Maps



Choose the base layer for the initial view when this web map context opens in the TNTmap API for Google Maps<sup>1</sup>. The **last choice** in this list places the bottom layer from the Main View panel in the Base Maps section of the layers list and selects it.

Specify the type of units displayed for the measurement tool.

Closes Save As/Settings panel without changing any settings.

Saves references to the layers currently on the Layers list in TNTmap Builder as a web map context file (\*.htm) for Google Maps. See Title description for installed and web application version behaviors.

<sup>1</sup> Note this specifies the initial layer combination when the web map context file is launched in Google Maps. You can subsequently switch to any other combination of the layers selected in the Main View of TNTmap Builder and the Google Maps layers in this TNTmap version of Google Maps.

