

USER GUIDE

Texas Airspace Planning and Forecasting Tool

Texas A&M Natural Resources Institute | TAPFT.NRI.TAMU.EDU



WELCOME

Funded by U.S. Department of Defense Office of Local Defense Community Cooperation, the ***Texas Airspace Planning and Forecasting Tool*** provides Texas military installations with a webtool to visualize future land use change that may have adverse implications on military test and training spaces, especially aviation assets. The tool allows users to query and map specific aviation assets of interest and examine projected land use change across the state. Various tool features allow users to customize the map for optimum visualization. Users can also export map results into a printable format for use outside of the web application. This guide provides an overview on web tool features and querying data. For a more comprehensive overview of the tool, visit our **Demonstration Video** link located at the top of the webtool.

FEATURES KEY



Zoom in and out of interactive map



Re-center the map on the entire state of Texas



Print (export) the current map view



Upload your own geospatial data



Expand the map legend



Control layer visibility



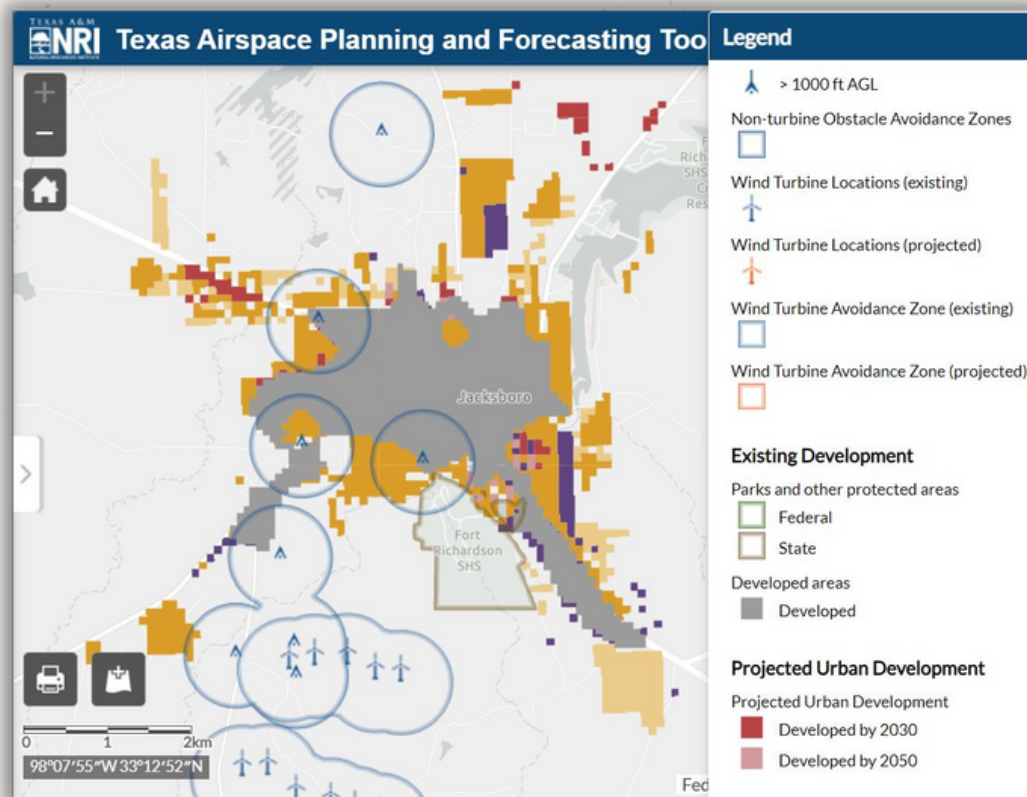
Pick a basemap from the gallery



Read web tool summary information

ANALYZE THE MAP

The map pane displays incompatible incompatible land uses, both current and projected, alongside aviation asset data. Users can explore the map by using the mouse to pan and zoom to specific areas of interest. Data used in this application is defined in the complementary **Project Report**, linked at the top of the web page. Here, we identify a few key notes about the land use data before getting started.



- Tall structures located in close vicinity to one another will appear as one cluster when zoomed out to a certain extent. Zooming in will display the structures as individual points.
- Users can click on tall structure markers to open a pop-up window with more information about the structure height or associated permit.
- Horizontal buffers of 2,000 feet were added to tall structures to account for FAA Code of Federal Regulation 91.119 b.
- Projected urban development include data for the years 2030 and 2050, differentiated by color.

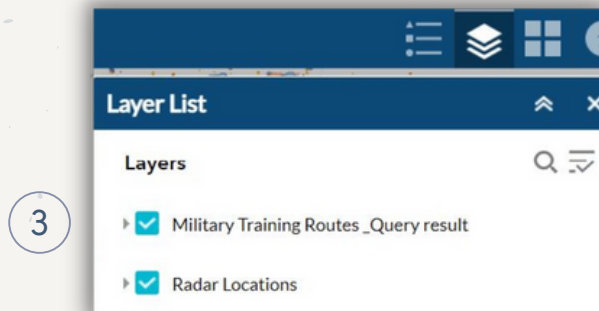


CUSTOMIZE THE MAP

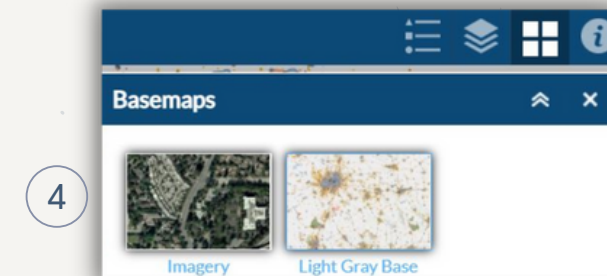
1. Users can upload their own geospatial data to display on the map by selecting the **Add Data** button.

2. Uploaded data can be deleted from the map by clicking the **LAYERS** button on the Add Data dialog box and then clicking the delete icon next to the layer name.

Note: *Uploaded data is only displayed on the map temporarily and is not saved for future sessions.*



3. Data layer visibility on the map can be controlled on the **Layer List** menu. Checking and unchecking the box next to a layer name toggles layer visibility.



4. Users can change the background map by selecting the **Basemaps** menu and clicking one of the available options.

1

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Find assets to display Results

- Military Training Routes
- Special Use Airspace
- Additional Operating Areas
- Radar Line of Sight Footprint

2

← Military Training Routes

Query criteria

Installation name(s):
0 selected
Show MTR by installation

Owner name(s):
0 selected
Show MTR by owner

Route ID(s):
0 selected
Show MTR by ID

3

Find assets to display Results

Military Training Routes_Query result ...

Displayed features: 18/18

VR106 C - D

Installation Altus

Service US Air Force

Owner 97 OSS/DOA, 101 S Sixth St., Bdg 225, Altus AFB, OK 73521 DSN 866-6098, C580-481

Edited by garrett.powers on 7/21/21 at 2:25 PM

ADD AVIATION ASSET DATA TO THE MAP

1. Under the **Find assets to display** panel, users can select a type of military aviation asset to add to the map.

2. Once an asset type is selected, users are directed to a **Query criteria** page. Here, parameters that describe the asset can further refine a search. Using the drop downs selections, users can fill in criteria as known, or simply click **Apply** to view all assets of that type.

3. The map will automatically zoom to the location of the assets selected. The **Results** panel will display information about each asset that has been added to the map in the most recent query.

4. Users can add additional asset data to the map by re-selecting the **Find assets to display** panel and repeating steps 1-2.

Note: If a user adds more of the same asset type previously queried, the web tool will automatically remove the last query results. To avoid losing original assets, users must re-select the original criteria when making new selections.

EXPORT THE MAP

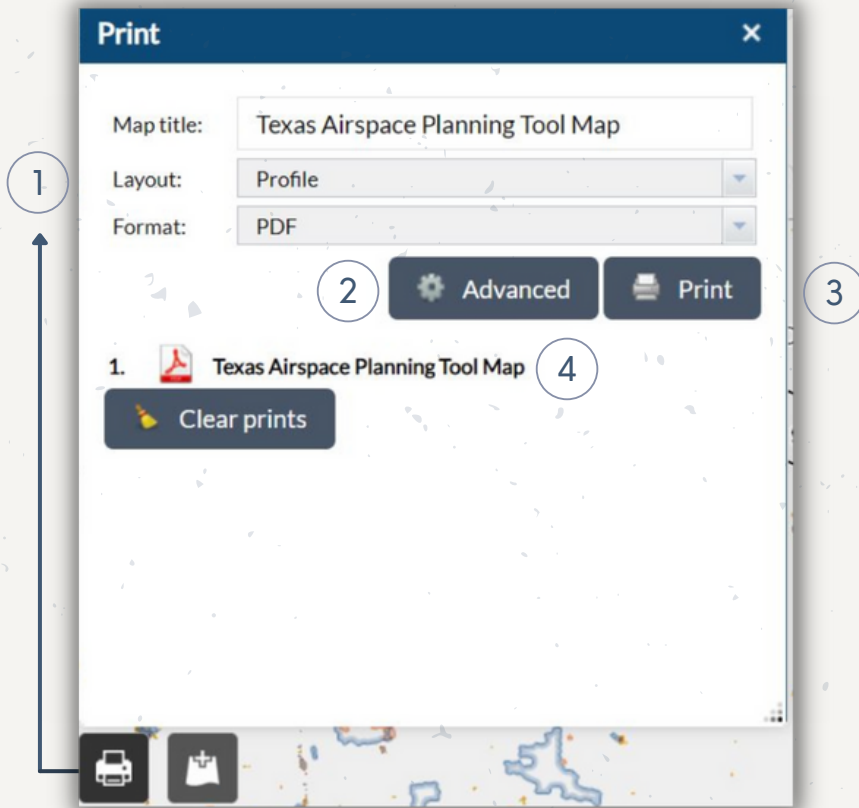
1. Users can adjust the map frame to display the extent of the map they would like to export. Selecting the **Print** tool opens a dialog box with various customizable parameters.

2. The **Advanced** button can also be selected to adjust advanced print options, such as file size.

3. Once all selections have been made, users can click the **Print** button to export the map.

4. After the export is finished, the web map will appear as a link on the print dialog box, where users can then print or save the file.

Note: The export process may take up to a couple of minutes to generate depending on the size of the map or the number of features present.





This tool is maintained by the Texas A&M Natural
Resources Institute Geospatial Analysis Team.

Contact us for questions or inquiries:

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