

NAPFAST CHEAT SHEET

Creating a model

If you want to sue a pre-existing model skip to the next step.

You need to be in the Set-up section. Setup History Observatio Forecast Tools

First add a model and give it a name. You can also copy an existing model, saving it

as a new name.

Then select edit to bring up the model.

Choose the appropriate template and fill in the appropriate blanks with the model parameters. You need to add a start and end date in the correct format.

Don't forget to hit save!

Setup Output

Name: Infection Level Accumulate

	Low	High	Text	Color	R	G	B
1.	>	<= 0.99	noinfec	Red	255	58	82
2.	> 0.999	<=	infection	Blue	19	45	249

Setup Accumulated Output Variable

Name: Accum. Infection Level

	Low	High	Text	Color	R	G	B
1.	>	<= 0	0	Purple	83	0	158
2.	> 0.1	<= 5	0.1 -5	Blue	30	0	210
3.	> 5	<= 10	5-10	Cyan	13	189	223

You will need to set-up the output variables by setting values and choosing colors. Consult the manual to set the values!!

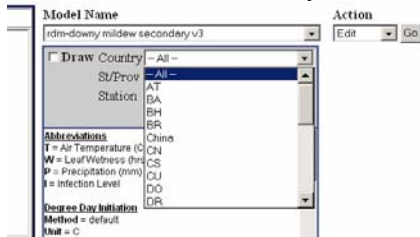
You can also add an accumulated (cumulative) variable. Hit level + to add additional rows. Don't forget to save again!

Test your model - use the graphing function

We recommend testing models by graphing them first
In order to be able to make graphs, you will need to add stations first.

You need to be in the Set-up section.

First choose the model you want to make graphs for.
Then choose the country (Note: only North American and China available)



After selecting the country, then choose the state and then the stations you wish to add
You can simply add all countries /all stations if you wish. If you want to just add one country or state it will make choosing stations quicker later.

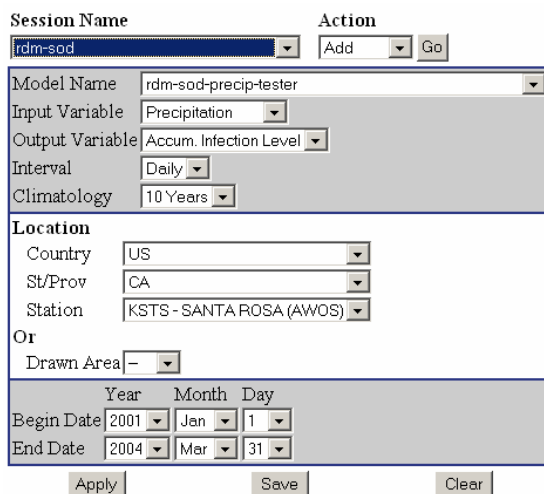
Let's draw some graphs

Go to History section

At the bottom left hand corner the format box should say graph.

Format

At the top right hand corner, pick the model, input and output variable, location and time period. Use a time period and location where you have observations or know the behavior of the pest. Save a new session if you want to be able to return to your graph at a latter point in time. Please note that graphs can only be made for North America and China at this point in time.



Choose the model, station, input variable, output variable, climatology and station.

You will also need to choose the dates to run the model

Hit save to save a session.

Making Maps

You need to be in the History section. You must generate maps in this section from your model. Once the maps are created, you can export maps for use in GIS as Geo-Tiff. By filling in the email address in the map request you can be alerted when the map is complete.

Format Output

Geo-Tif

Request Map

Probability Map

Average History Map

You can request different types of maps including history (historical), probability (frequency) and average history maps.

All map requests let you choose grid or station. For global data choose grid. Do not toggle 'dev data' if using station data unless you want your maps to be horrible.

<http://aphis.zedxinc.com - Map Request - Microsoft Internet Explorer>

Model:

Variable:

Begin Accum:

Date:

Region:

Email:

Data Type: Station Grid

Dev Data:

Interpolation: 2D 3D

History requests are for mapping selected historical periods i.e. day or year. The history request lets you pick an end date (and a beginning date for accumulated variables). You also need to choose a region.

<http://aphis.zedxinc.com - Probability Map Request - Microsoft Inte>

Model:

Variable:

Begin Date:

End Date:

Search Value:

Search Occur: - Days (Blank For Any)

Map Type:

Classes:

Region:

Email:

Data Type: Station Grid

Dev Data:

Interpolation: 2D 3D

Use the probability request for generating the frequency of occurrence over a selected climatology. The probability request lets you pick dates, region, and climatology (10, 20 or 30 years). Choose a search value and/or number of occurrences. Note if you want to change the scale for an accumulated variable, you may need to make a new

<http://aphis.zedxinc.com - Average History Request - Microso>

Model:

Begin:

End:

Num Years:

Region:

Email:

Data Type: Station Grid

Dev Data:

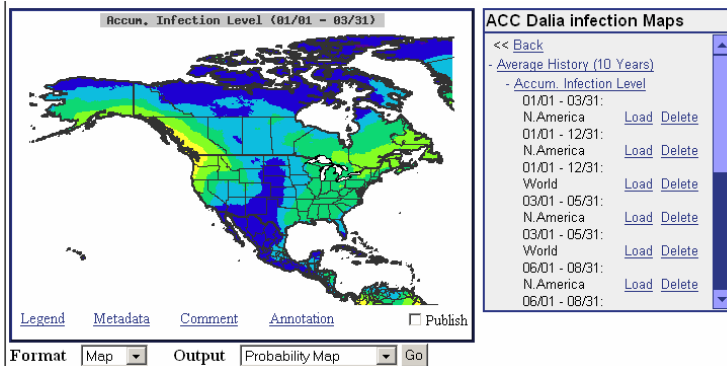
Interpolation: 2D 3D

The average history request lets you pick dates, years (last 10, 20 or 30 years) and region.

Viewing Maps

Once a map is created you can view it. It may be necessary to refresh the history section to see the most recently requested maps, which can be done by selecting history at the top of the page. You need to be in history section to select a map for viewing

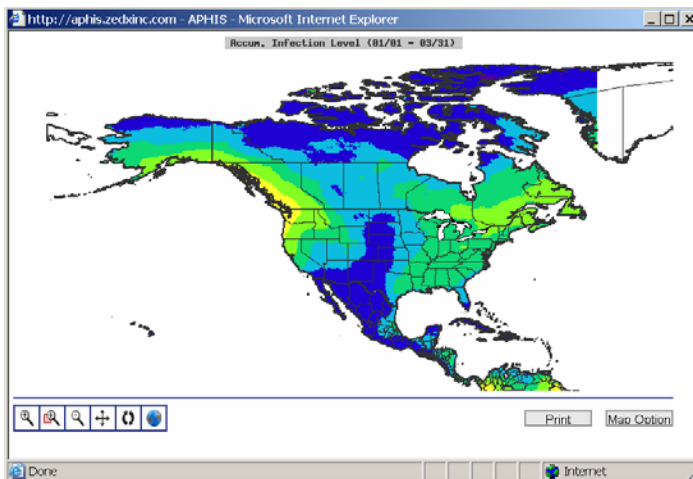
At the bottom left hand corner, change the format selection from graph to map





Select a map for viewing by navigating first to the model and then to type of map (e.g. probability etc). Maps are listed by dates and region. You can see metadata and legend.

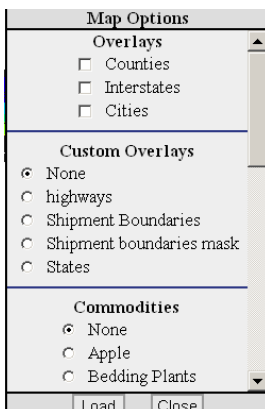
You can export the map by hitting geotiff in the output drop down window

Open a new window by double clicking on the map



You can use navigation tools to pan, zoom etc. The easiest one to use is the zoom box, the magnifying glass 

The  is to zoom out. Use the globe to return to the original view.



For US maps, you also can overlay certain types of data for example states, counties, interstate highways and cities. Other choices include commodities. Make one or more choices and hit load to refresh the map.

Climate matching tool

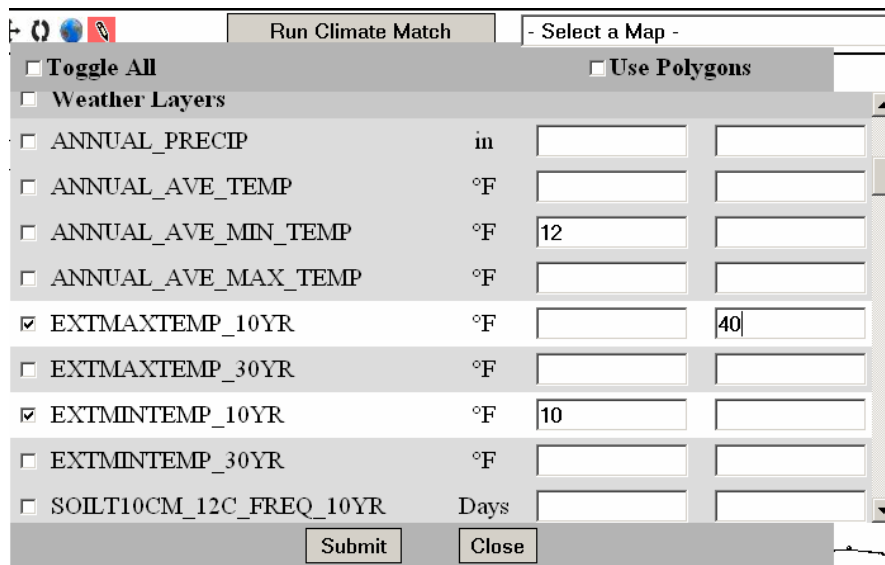
You need to be in the tools section
Select climate tool from the tools window



You can view maps by selecting a map from the view window



You can run a climate match by selecting limits and then hitting submit. Check the variable as shown and enter lower and/or upper limits.



You can also run a climate match by adding points and/or polygons. This is not recommended at this time. If choose to try it, the best matches are obtained by adding individual points.

Hit new to create new saved polygons or points for a given pest



Add new points by clicking on the drawing tool at the top



Hitting '+' adds a new polygon. To add points hit the '+' after each point.

After adding points or polygons hit run climate match and then click on use polygons at top prior to hitting submit.