Time Based Plots

Designed for users with a busy schedules, Time Based Plots (TPB) are ideal for instantly visualising a traffic data overview. Although not as extensive as regular MTE analyses, TBP statistics offer comprehensive graphing options and functions, analyses including:

- Vehicle Flow
- Vehicle Class
- Speed Bins
- Mean Speed
- Velocity dispersion
- Separation
- Lane occupancy

Time reference

MetroCount datasets include the precise arrival time of every vehicle. This enables great analysis flexibility, allowing to vary the time reference for TBP reports. For example, you can use the same dataset to produce a graph of daily flow alongside a plot of five minutes average speeds.

Pan and Zoom

Time Based Plots permit users to visualise the entire dataset on one page or to zoom into a week, day or hour segment. Likewise, you can interactively examine traffic peaks and lows, and pan view left to right.

Vertical scale

By default, in TBP display, the vertical Y-axis is not fixed. To compare one site with another, it is sometimes useful to lock the vertical axis. This can be easily achieved via the graph menu.
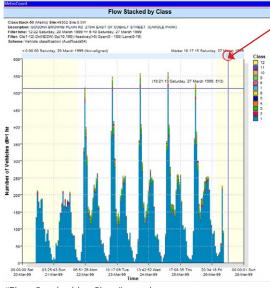
Rendering

Each graph has a default rendering that can be adjusted with ease. MTE offers several layout choices. By changing the rendering (via **Graphs** in main toolbar), an user can completely redesing the look and feel of graphs.

Creating Time Based Plots

1. Click the **New Report** button, choose your dataset and click **Next**.

2. In the *Report Vortex*, choose **Charts** and select a TBP.
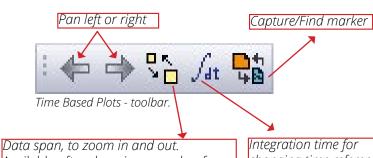3. Confirm your Profile and click **Next**.

Viewing and editing options

"Flow Stacked by Class" graph.

Graph region bar.
Click and drag your cursor to display cross hairs.
Double-click to remove the marker when you're done.

Pan left or right

Capture/Find marker

Time Based Plots - toolbar.

Data span, to zoom in and out.
Available after dragging a marker from the graph region bar.
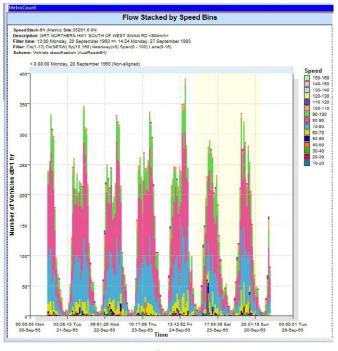Ctrl+click to anchor view at the marker.

Integration time for changing time references.
NOTE: Some references may not be available for some time spans and some plots have a fixed time reference (e.g. velocity dispersion).
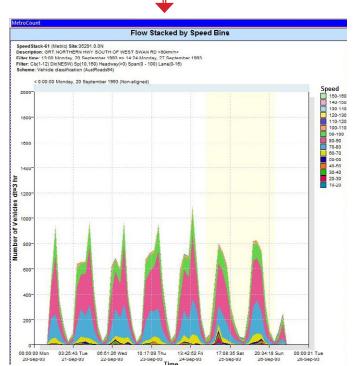
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Time Based Plots - rendering examples

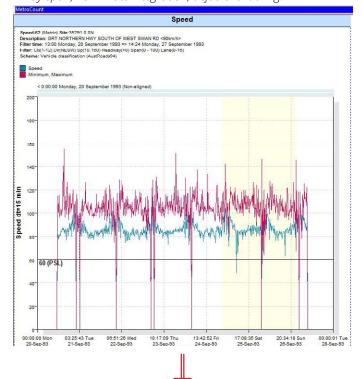*"Flow Stacked by Speed Bins" graph.*
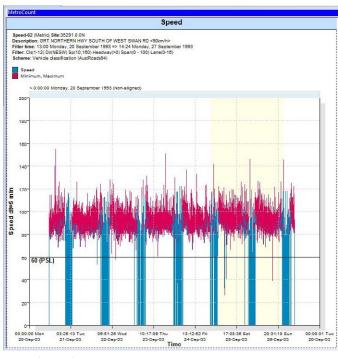*Day span, default hourly integration, default rendering.*

"Speed" graph.
Day span, 15-minute integration, default rendering.

"Flow Stacked by Speed Bins" graph.
Day span, 3-hour integration, polygon rendering.

"Speed" graph.
Day span, 5-minute integration, delta bars rendering.