The following specification addresses both styling adjustments for the display of output data graphs and methods of modifying the content of those graphs.

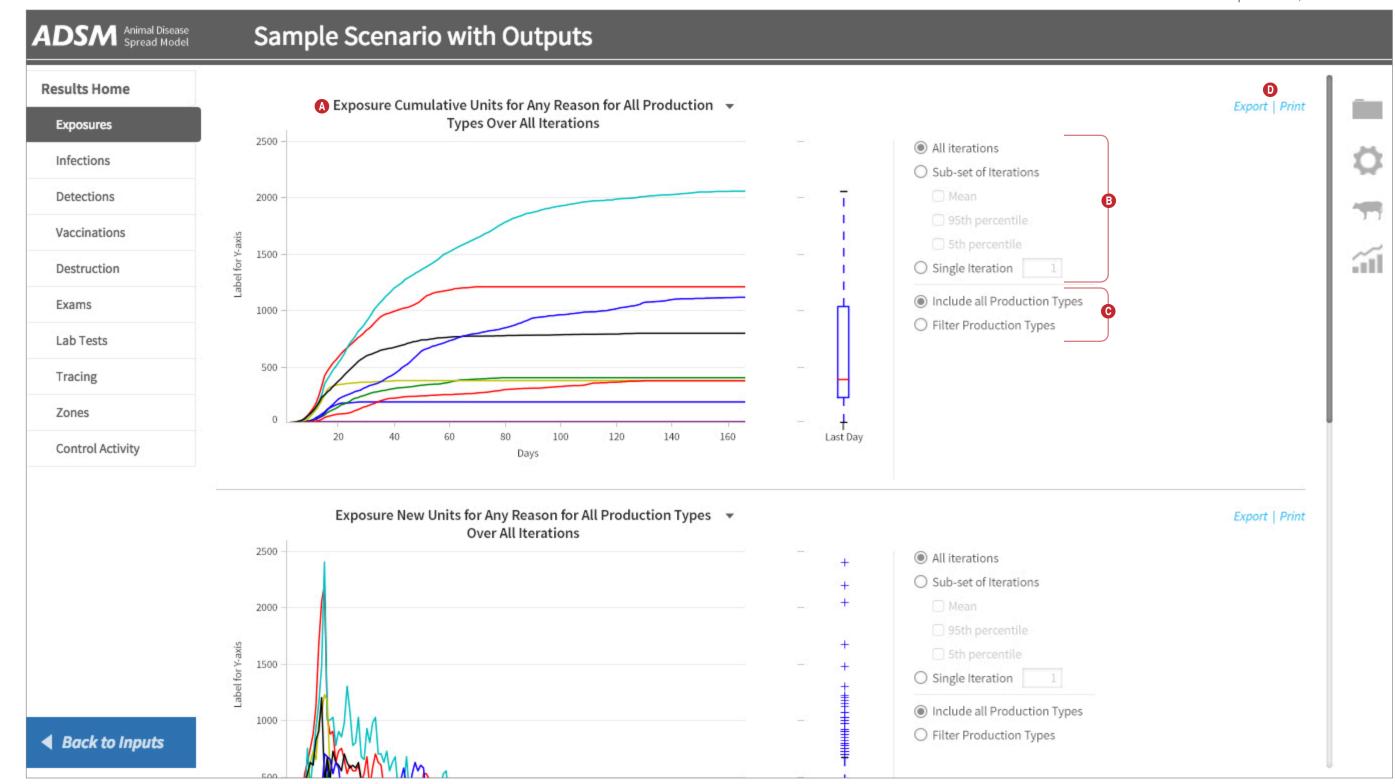
The perceived complexity of the navigation has been reduced by flattening out the hierarchy. It appears that the "Production Type" heading contained all data-sets and was thus redundant (and removed). Zone related data is combined into a single tab.

Each section view (Exposures, Infections, Detections, etc.) should by default load the two most likely desired data-sets, as shown in the mock-up. A simple survey created and distributed using a tool such as Google Forms might provide some quick feedback on what these data preferences are. A slightly more complex survey could also help parse the particular views of those data users find most useful and help determine the options and defaults for the Data Display Options controls.

⚠ Graph Title and data-set selector clicking expands a combobox selector from which the user can select a data-set from the active sub-section to populate the chart

## **Data Display Options**

- Iteration options
- Production Type options
- Export | Print actions clicking print triggers the OS print dialog. Clicking export gives the user the option to save the data visualization as an image file. Ideally, the user should have the option to save the entire page, as well.



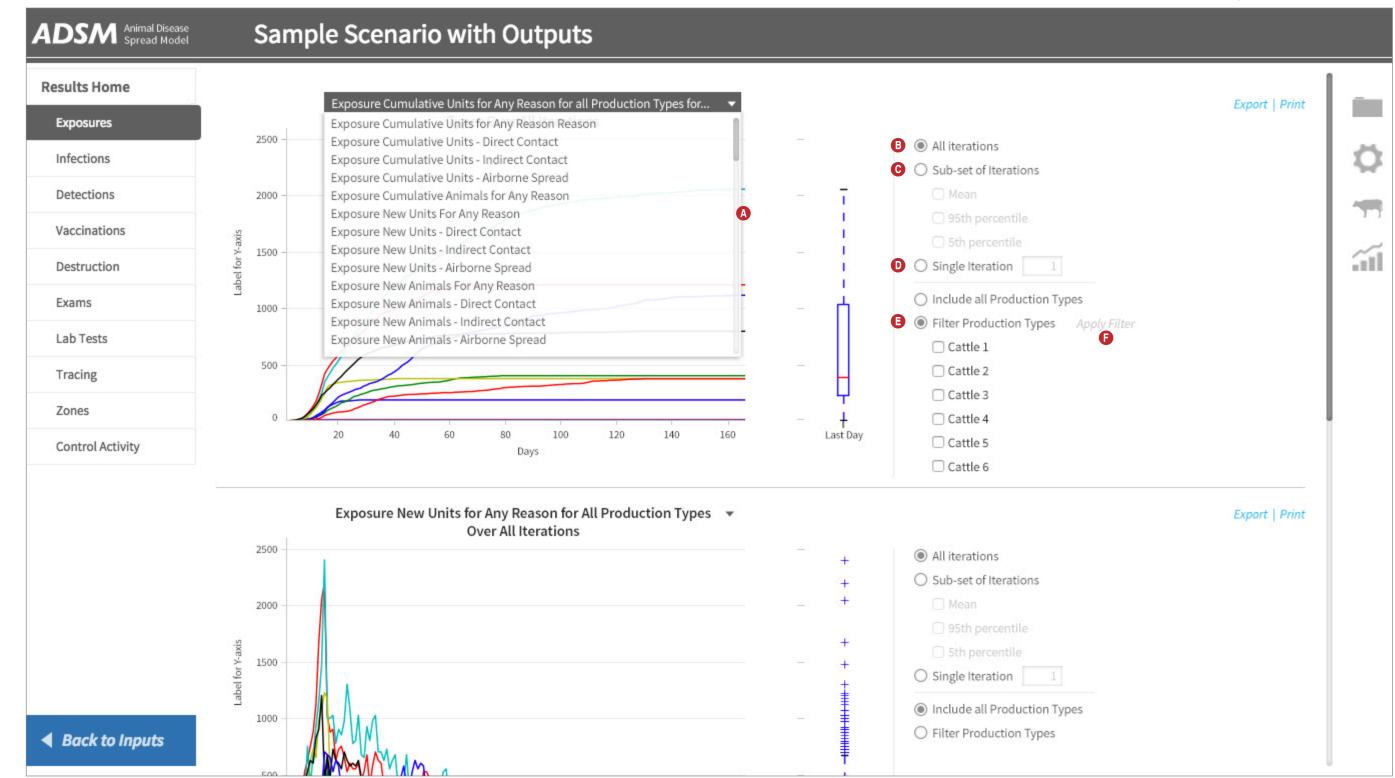
Expanded view of data-set selection combobox. The menu background has an opacity of 93%

## **Iteration Options**

- All iterations are shown by default
- When "Sub-set of Iterations" is selected, the contextual options become enabled. The user can choose to see any number of options by selecting the adjacent checkbox. If load times are slow for new selections, an Apply action link should be employed to refresh the view after selection (see Filter). A key should be rendered under the x-axis title indicating which line is associated with each metric (see pg 4).
- When "Single Iteration" is selected, the number input field is activated. The user should be able to set the page focus on the field then use the keyboard up and down arrows to page through available iterations, or key in a specific iteration and hit enter.

# **Production Type Options**

When the "Filter Production Types" option is selected, a check-box-list of production types expands below the option title. The user can select one or more Production Types by clicking the adjacent check-box. Once one option is selected (or changed), the Apply Filter (3) action link becomes activated. Clicking the action link refreshes the graph to represent the chosen selection.



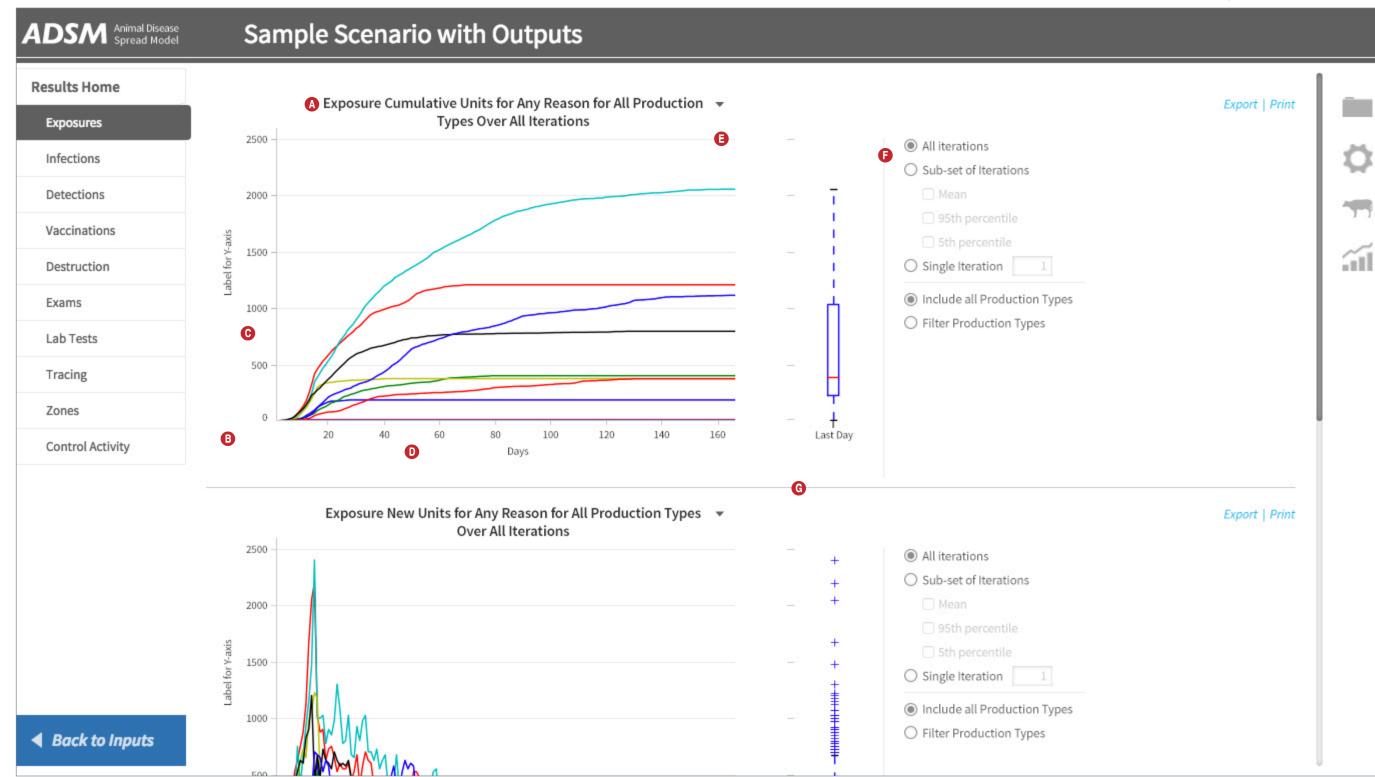
#### **Graph Display Specifications**

- Graph title 15px Source Sans Pro, Semibold, #303030 (serves also as a data set selector - see pg. 2)
- B Graph axis lines 1px solid #cccccc
- O Unit tick marks 1px solid #ccccc, 5px long
- Units and Axis Labels 11px Source Sans Pro Regular, #303030 (note that current graphs do not have a y-axis label, but one is needed). Padding between units and labels is 10px
- In-grid horizontals 1px solid #ebebeb
- vertical section break 1px solid #ebebeb
- **G** section bottom border 1px solid #ccccc

The first graph title should be placed 30px below the bottom of the page header. Following sections have a top margin of 20px.

The vertical section break should have 30px of padding to the left and 20px of padding to the right

The horizontal section break should occur 30px below the bottom of the x-axis label (or 13px below the bottom of a graph key, if displayed)



- When appropriate, a key should be rendered below the x-axis title with a 1px solid #ebebeb top border with a 10px top margin and 10px top padding. Line color indicators should be 2px high and 15px wide with 11px Source Sans Pro, Regular, text at #303030.
- If a refresh is required to load a new visualization, only the chart area should be masked (white mask with 90% opacity) and refreshed. The text "recalculating chart..." should accompany the typical loading graphic at 15px, Source Sans Pro, Regular, #606060.
- Users have the ability to generate as many unique charts within each section as they choose. Clicking the "Create Another Chart" action link generates a new data-set section under the last on the page, with all of the typical default selections in place.

