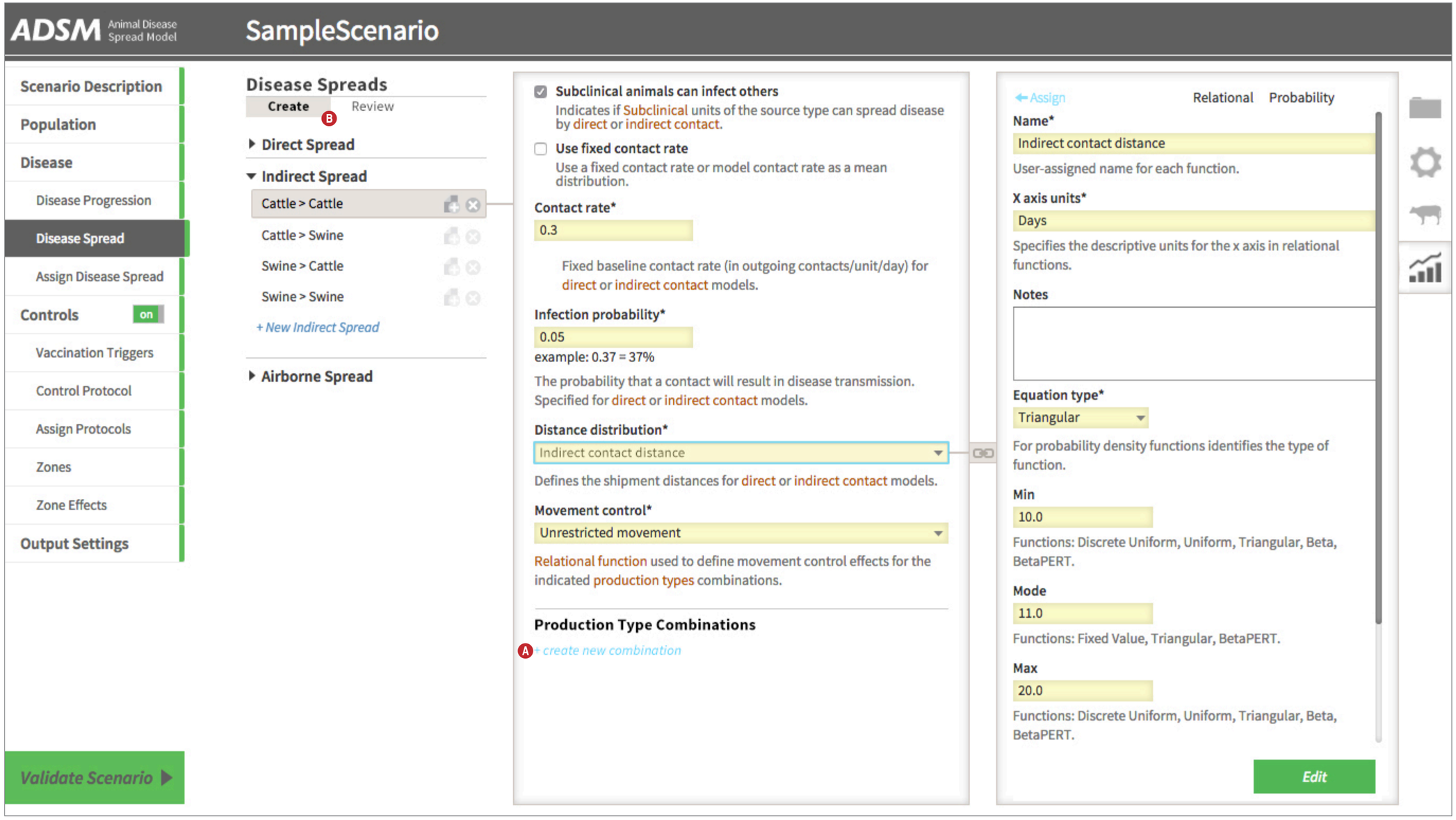
Assigning Disease Spread Within the Define Interaction

The definition of a disease spread and the assignment of that spread are fundamentally linked interactions. As such, I have combined the two tasks within a single page (note that within this paradigm the "Assign Disease Spread" heading in the navigation menu can be removed). After the user has completed parameterizing the spread in the center column, she has the opportunity to associate production-type combinations with the selected disease spread.

A Create New Combination action link - clicking the action link generates a pair of controls for the selection of a Source Production Type and multiple Destination Production Types (see pg 2).

While this revised assignment interaction allows the user to quickly create associations between Production Type Combinations and disease spread definitions, the overall state of assignments is opaque from this point of view. A secondary "Review" view (see pg. 3) provides the user with a more holistic perspective of assignment completeness.

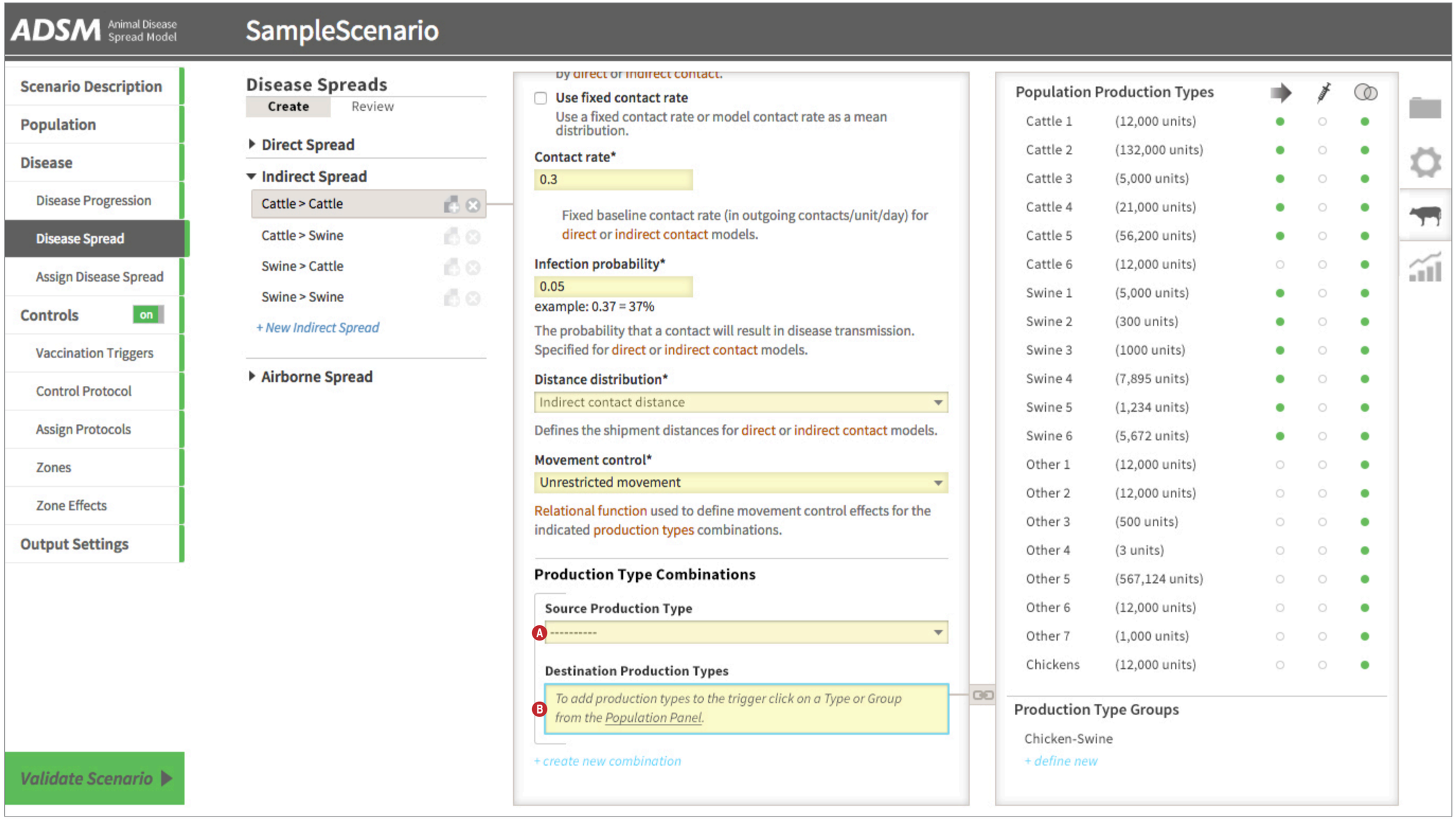
B Create/Review toggle control - clicking between "Create" and "Review" switches between the two disease spread views.



Assigning Disease Spread | Creating a Production Type Combination

A Source Production Type combo-box - the user selects the source production type from a drop-down list of available options

B Destination Production Type list select container - when the user focuses this control by clicking within the box or tabbing to the control, the population panel slides open and the "linked" graphic indicates that the control and the panel are paired. Clicking on production types from the population panel add or removes them from the container.



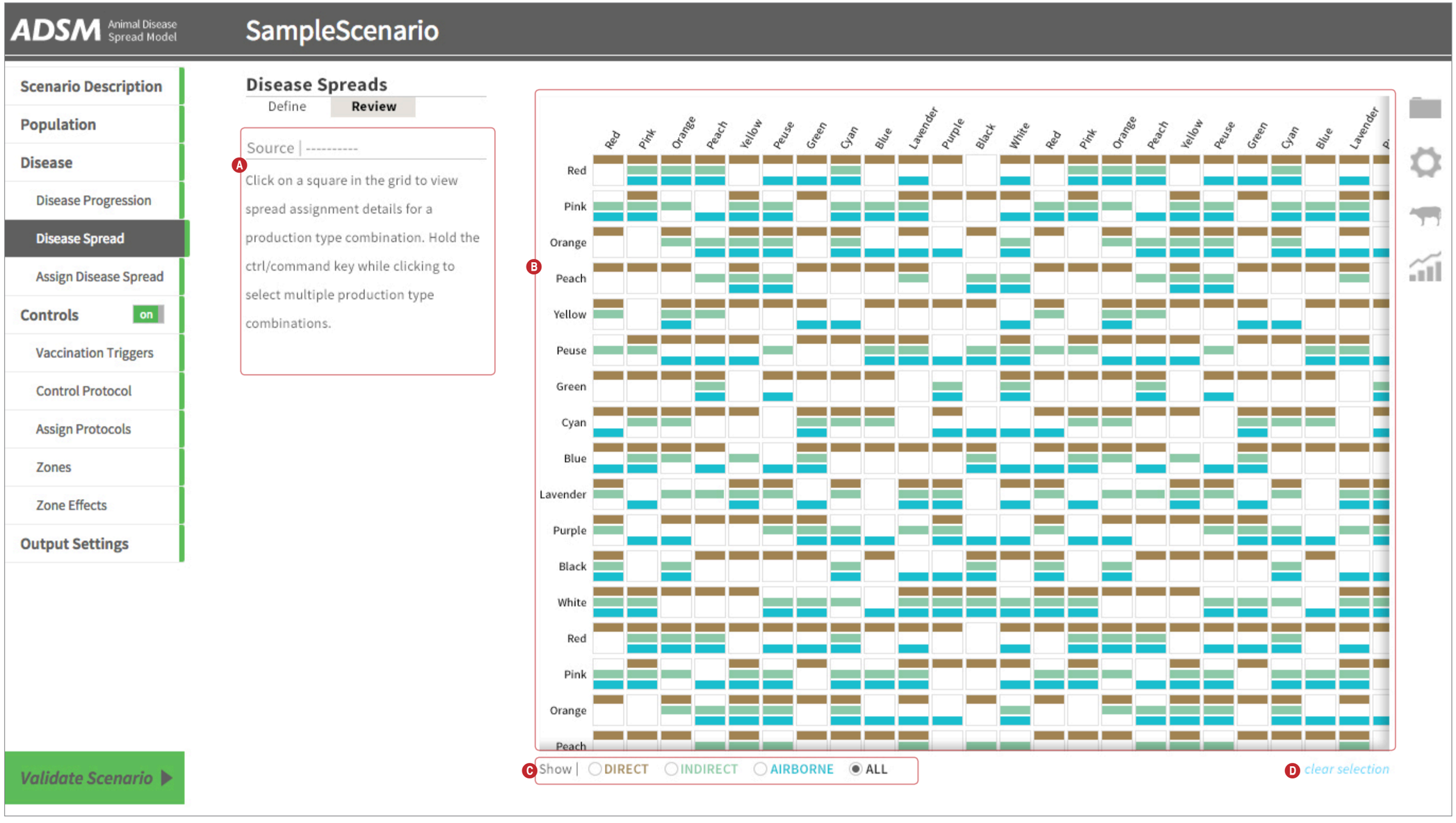
Disease Spread Review Interface | Blank State

A Details Panel - when the user first navigates to the Review interface, the details panel is populated with a bit of help text. Different from other 1st column layouts, the details panel should be set to a fixed width to accommodate all requisite information and interactions.

B Production Type Combinations Grid - this grid shows all possible production type combinations and indicates whether an association has been made between each pair for each of the three types of disease spreads. The Source Production Type is on the y-axis and the Destination Production Type on the x-axis. In instances where the grid will not fit in the allotted space, scrolling will become somewhat complicated. The desired behavior would have the x-axis labels scroll with the grid when the user scrolls horizontally with the y-axis labels staying fixed, with the opposite effect when the user scrolls vertically. A potential solution is to provide scroll controls as the only method of moving the grid (disallowing mouse scrolling). Additional functionality could include the option to scale the entire grid to fit into the allotted space.

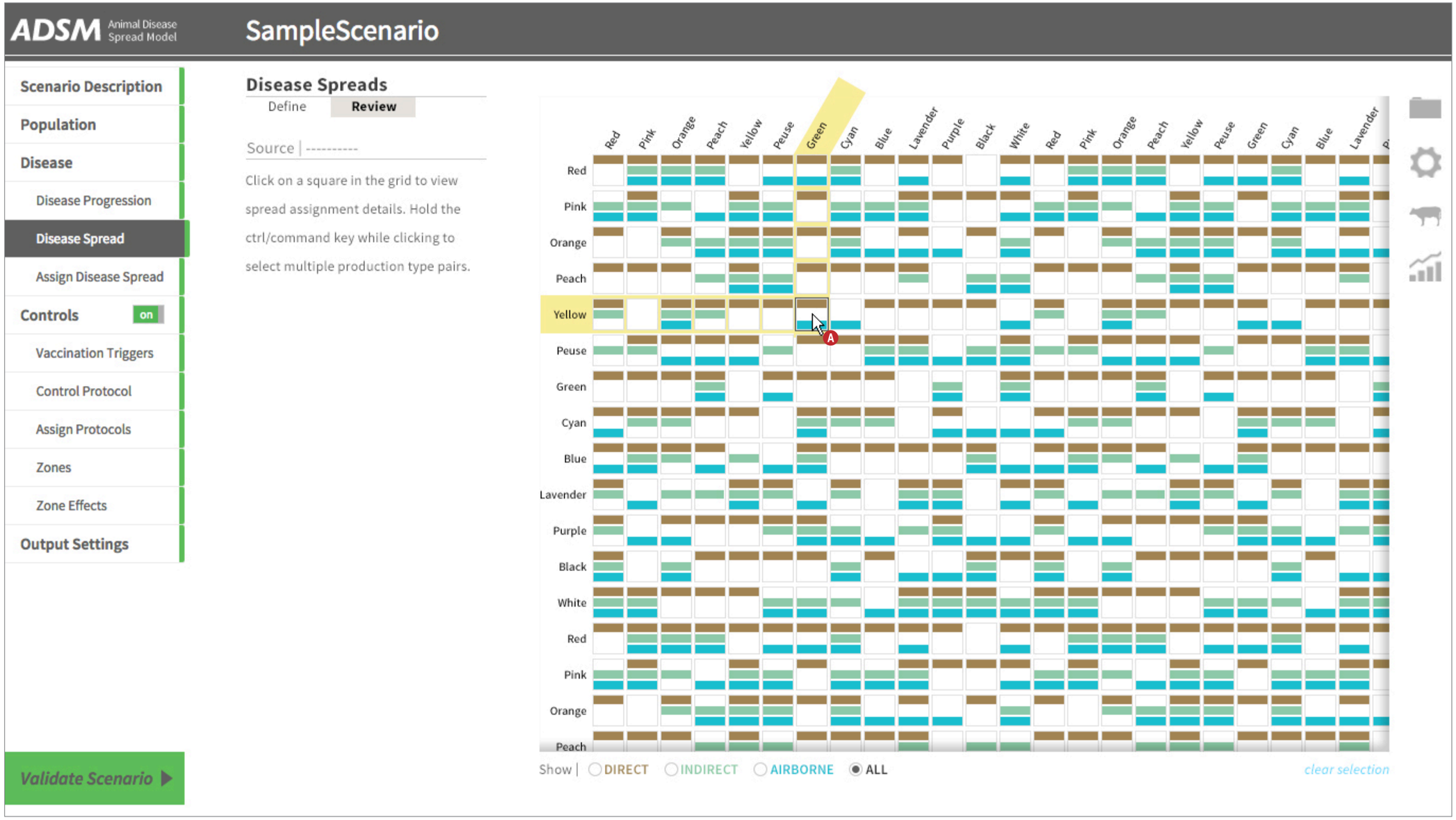
C Grid Key and Control - this content provides a color-key for the grid as well as controls to set the visibility of each spread type in the grid view (see pg. 9)

E Clear Selection action link - if cells in the grid have been selected, clicking this link clears all selections



Disease Spread Review Interface | Hovering Over a Cell

A Wen the user hovers over a grid cell, the containing column and column label at the cell and above should be highlighted with # faec9f. The row to the left of the cell and the row label should also be highlighted. The cell itself should be outlined with a 32px by 32px 1px wide # 555555



Disease Spread Review Interface | Single Cell Selection

A When the user selects a production type combination by clicking on a cell in the grid, the selection is indicated with a 34px by 34px, 3px wide #555555 border, and the details panel is populated with source and destination information. Clicking on another cell changes the focus. Holding down the ctrl key allows the user to select multiple cells from the same row.

B Source Production Type Header

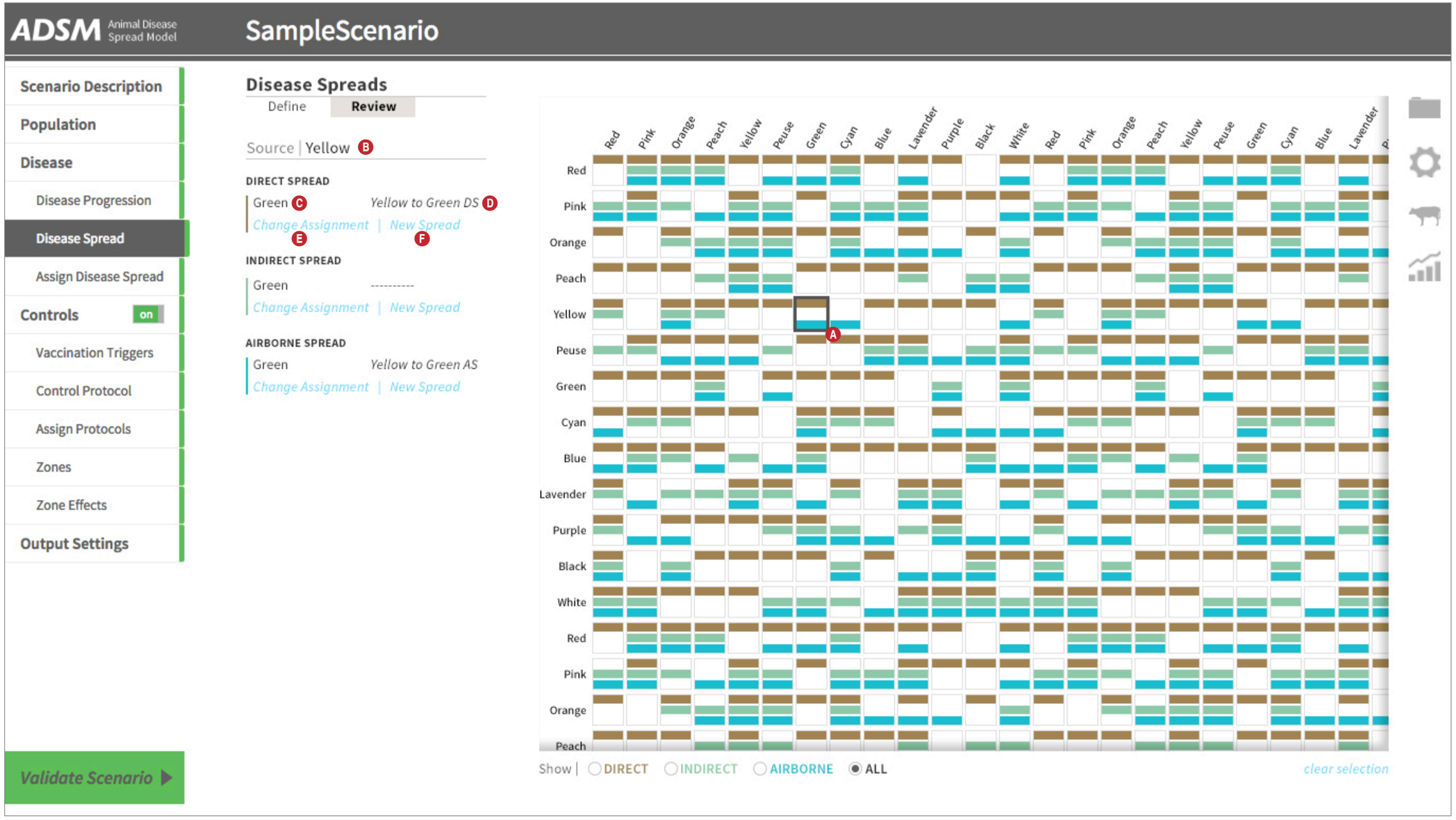
Each of the three possible disease spread sections contains the following:

C Destination Production Type

D Name of associated Disease Spread

E Change Assignment action link - clicking triggers the change assignment interaction (see pg. 6)

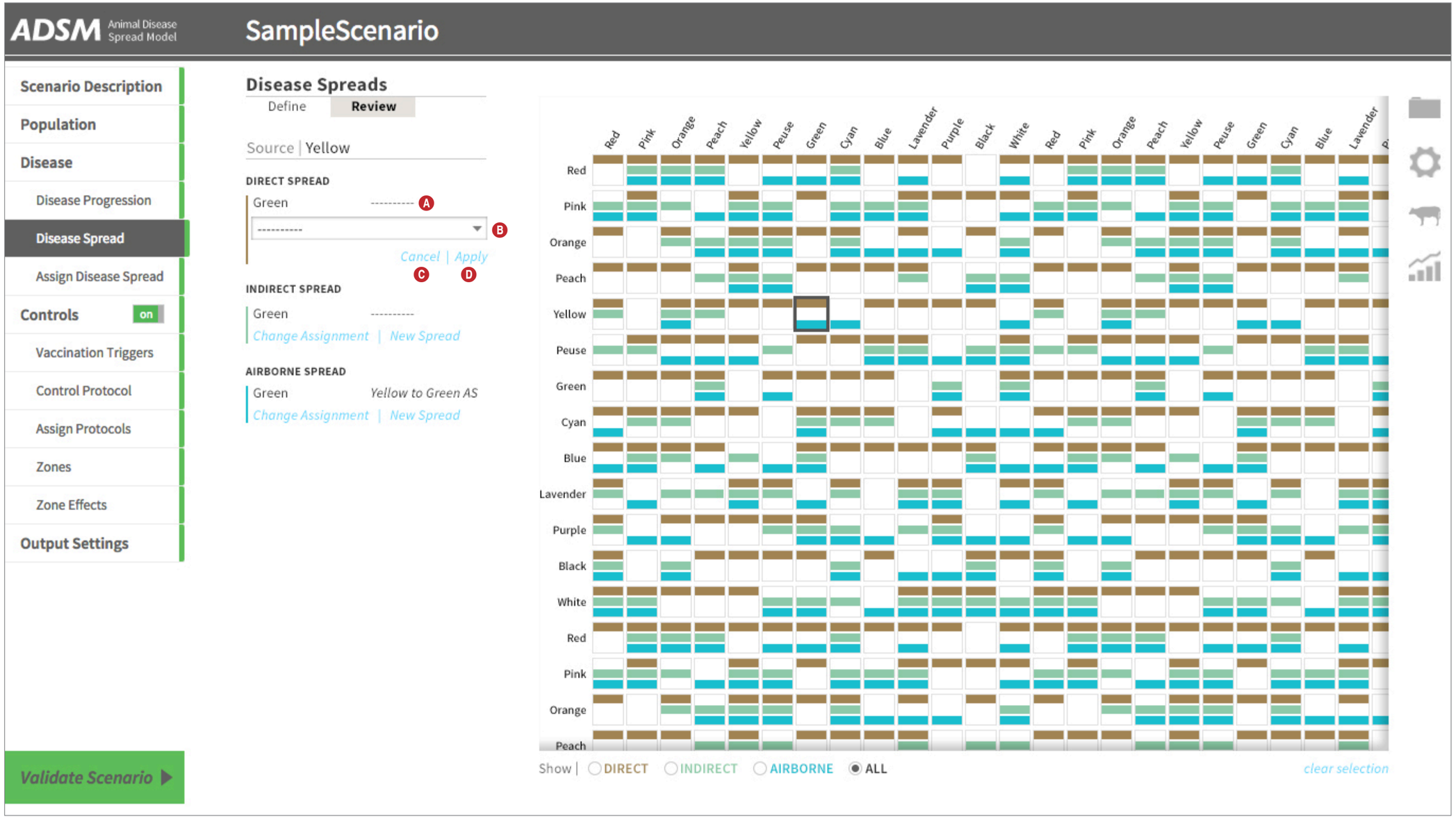
F New Spread action link - clicking toggles the view back to the define interface. The “Spread Name” field should be in focus and both the Source Production Type combo-box selector and the Destination Production Type list-select container (see pg. 2) in the Production Type Combinations section should be populated with the presently selected combination.



Disease Spread Review Interface | Changing an Assignment

Clicking on the "Change Assignment" action link produces the following changes/controls:

- **A** The currently associated Disease Spread Definition text is replaced with "----------," corresponding with the content in the combo-box selector
- **B** A combo-box selector becomes available for the selection of a new Disease Spread Definition. When the user opens the control and selects a definition from the list - causing the control to close - the name of the newly selected definition should populate the Disease Spread Definition text "**A**"
- **C** Cancel action link - clicking cancels the edit session and reverts any changes that have been made
- **D** Apply action link - clicking submits all changes to the spread details, saves the changes, and refreshes the grid to represent those changes. Cell selection should persist after the grid refreshes. Clicking anywhere in the interface outside of the present "Change Assignment" interaction should also cancel the action and revert the data to its initial state. A 1-step undo would be *very* beneficial in this situation.



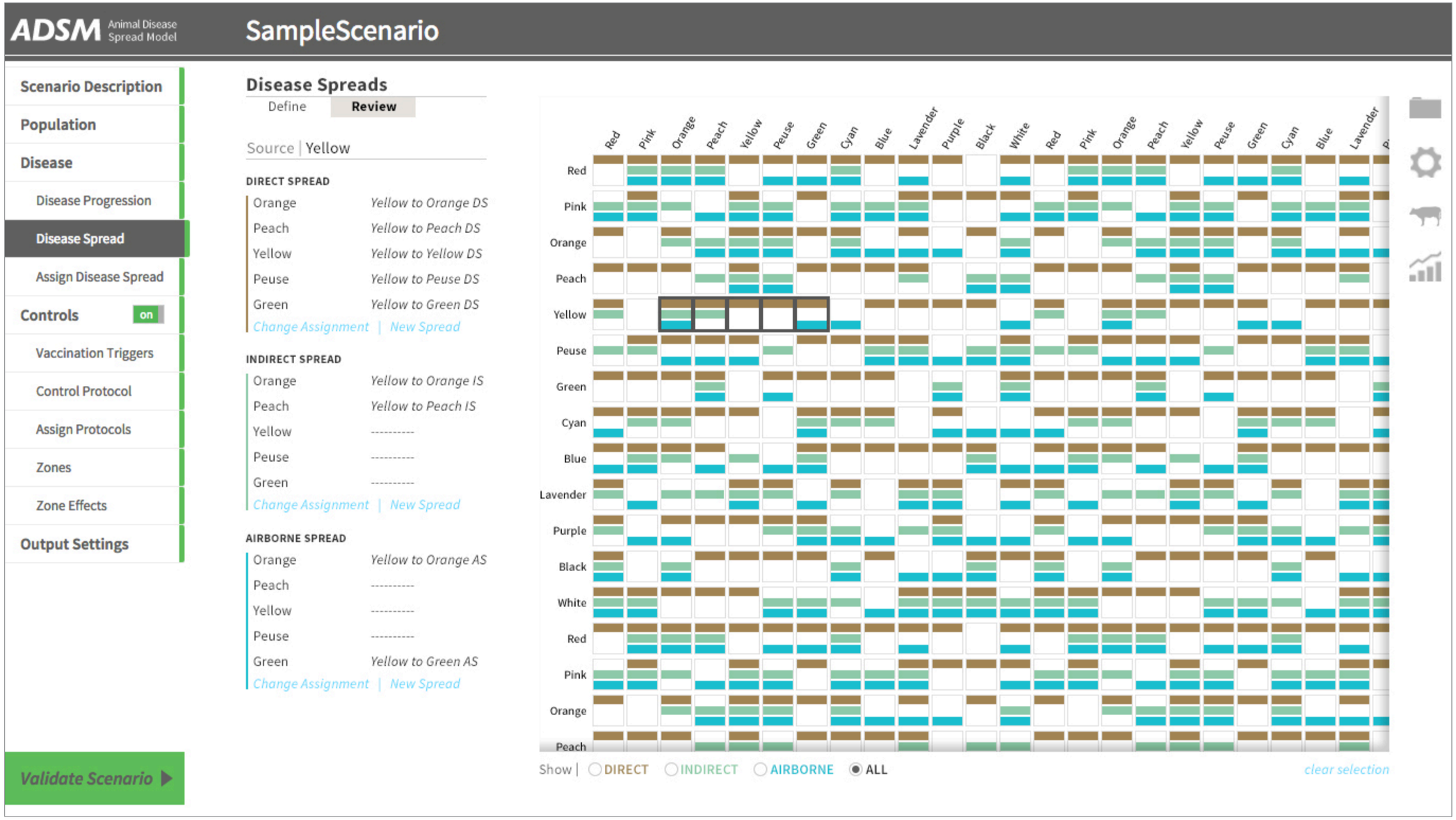
Disease Spread Review Interface | Multiple Cell Selection

Users should be able to select multiple cells in a single Source Production Type row. Not only does this allow for quick comparisons, but it also provides some limited mass-assignment functionality within the visualization. Both the selection indicators and manner of organizing the detail data is shown here

Potential additional functionality:

It might be beneficial to allow users to click on a row label and select an entire row of Destination Production Types.

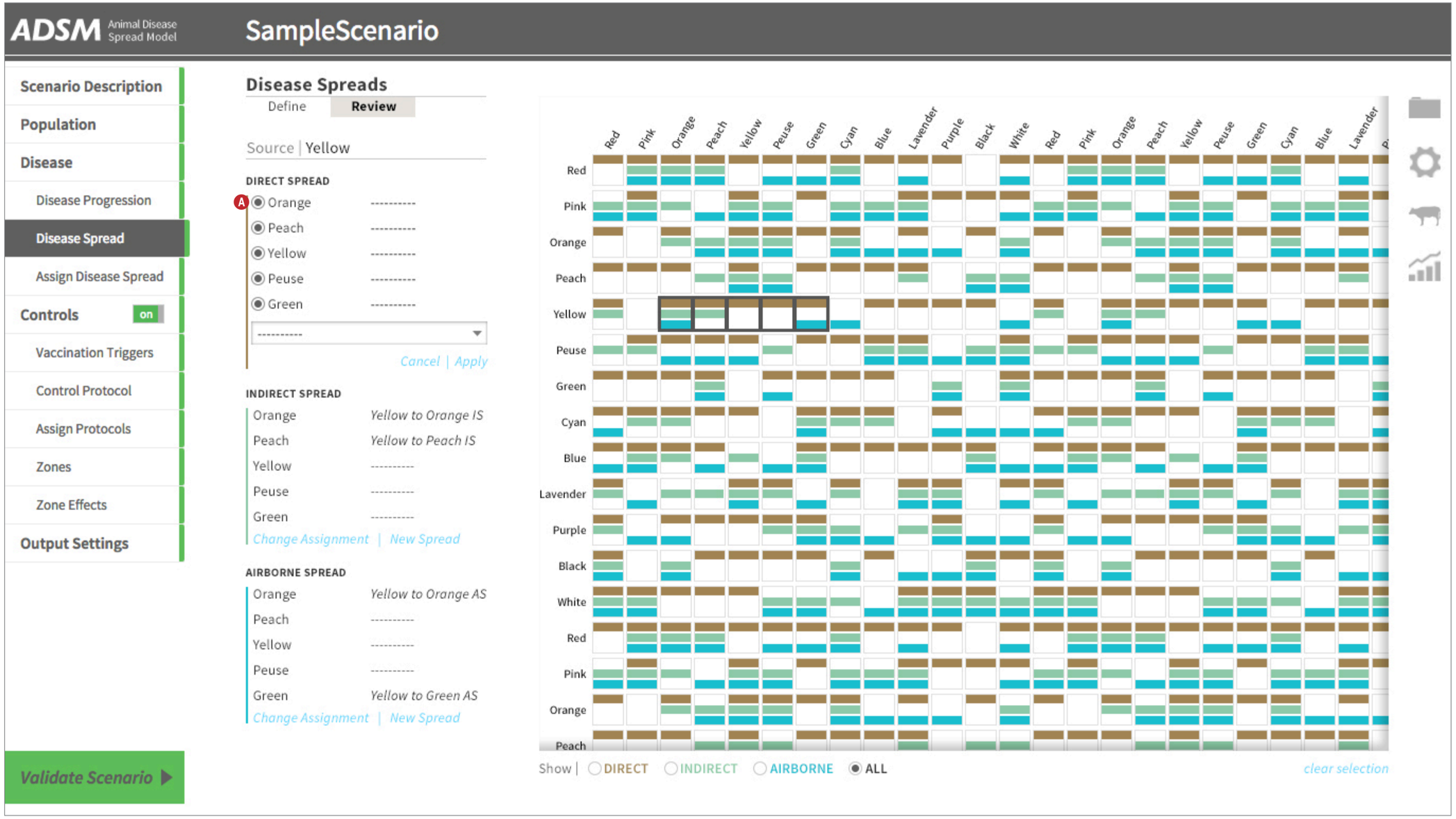
I have represented here and in the inline assignment interactions shown on pages 1 and 2 the limiting ability to select only a single Source Production Type. Might it be useful to allow the user to select multiple production types in both situations?



Disease Spread Review Interface | Changing Multiple Assignments

When a user has multiple cells selected then clicks a “Change Assignment” action link, the same changes described on pg. 6 occur and some additional controls become available.

A To the left of each Destination Production Type is a pre-selected radio button. Unselecting the button removes the associated Destination Production Type from the change action being performed.



Disease Spread Review Interface | Single Spread View

A Selecting an option other than “All” from the grid key limits the display of the grid to the selected production type. Here, the user has opted to view only airborne spread associations.