
AIMMS Tutorial for Beginners - Performing a What-If Run

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Chapter 7

Performing a What-If Run

7.1 Modifying input data

Having developed the input-output page, you are now ready to *use* the page. For this purpose you must put the page into *User* mode by pressing the **User Mode** button .

Page user mode

The input-output page allows you to see the effect of changes in either the demand, the supply, or the cost figures of the transport model. Just change any input data, re-solve the model, and view the resulting output.

What-if analysis

For example, to change the available supply in 'Haarlem' you can perform the following actions:

Dragging a bar chart

- ▶ in the 'Supply' bar chart, select the bar representing the supply in 'Haarlem',
- ▶ position the mouse pointer at the top of the bar, and simply
- ▶ drag the mouse upwards to increase the supply from 47 to 57 (see Figure 7.1).

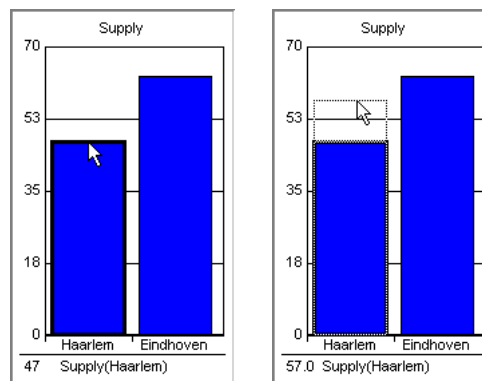


Figure 7.1: The dragging process for supply data illustrated

Alternatively, you can click on the corresponding bar, and enter the new supply value of 57 in the edit field on the lower left part of the bar chart.

You are now ready to re-solve the model. To do so, simply press the **Solve Beer Transport** button at the top of your page. You will see an improvement (i.e. decrease) in optimal cost from 27499 to 26626.

Re-solving the mathematical program

Note that a cost decrease could have been expected, because the entire capacity of 'Haarlem' had been used initially. By increasing the supply at Haarlem, 'Gouda' no longer needs Eindhoven as a second supplier (see Figure 7.2).

Improvement explained

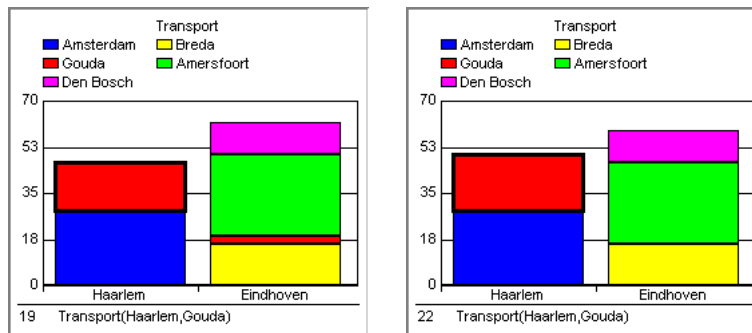


Figure 7.2: The effect of changes in the supply data