
Running the Simulation

And Analysing Solutions



Look at some base data

(US\$million)

- ROW's food exports = \$237,547 m
 - EU's food imports = \$237,199 m
 - EU's food imports from ROW = \$61,302 m
 - EU's food trade balance = -\$24,923 m
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- EU's food self-sufficiency = 98.2%
 - So food imports are a very small share of total food consumption in the EU
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Re-solve the previous experiment

- Click on **Load Experiment**
 - And find it under your saved name
 - Check it has the correct shock and other selections

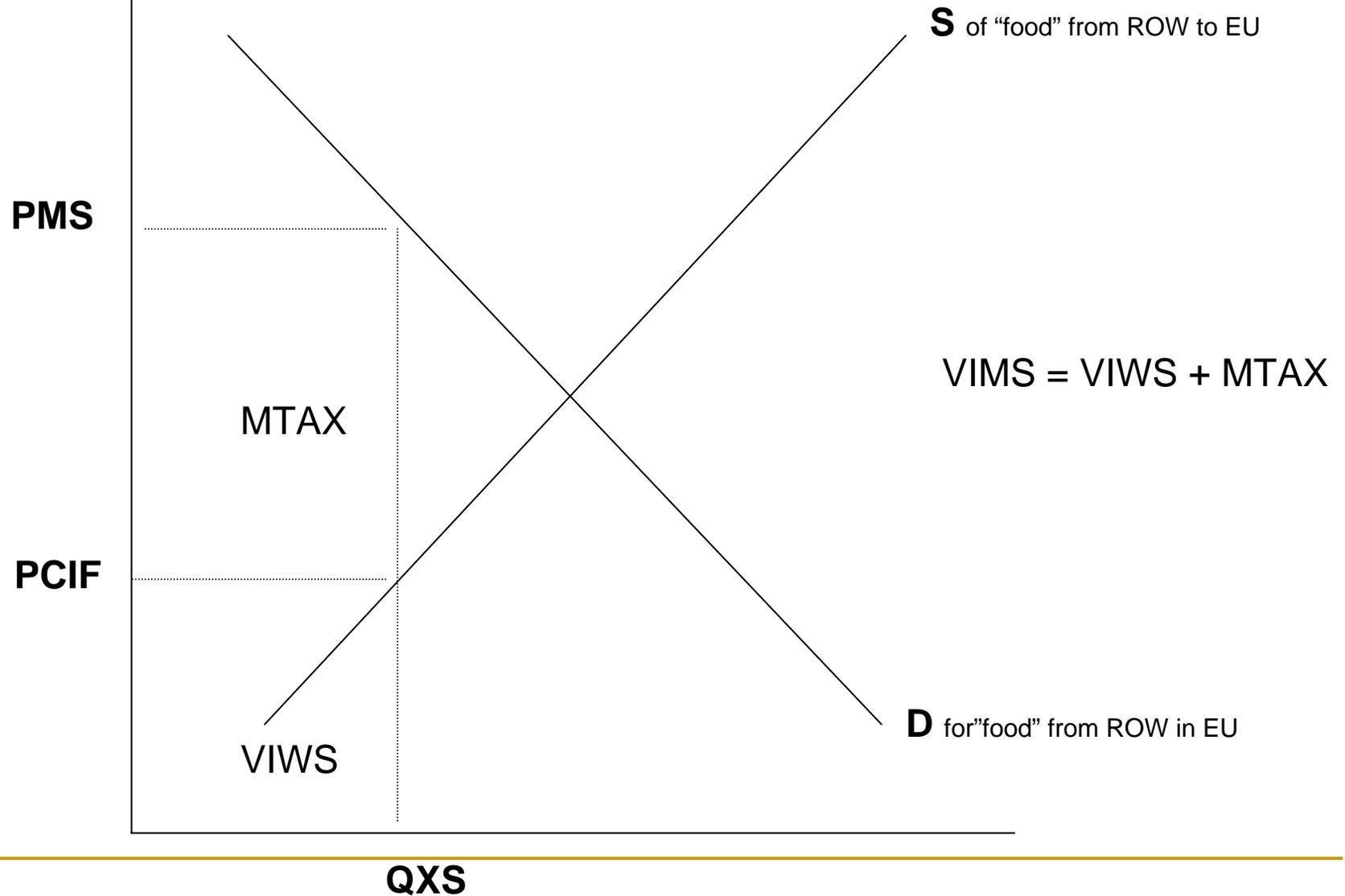
- Shocks

tms (“food”, “ROW”, “EU”) is to be shocked to zero

Check you have selected Default parameter file
and Graggs: 2-4-6

Click on **Solve**

What results would you expect??



Examine solution for EU

- What happens to EU's domestic & *cif* prices of food from the ROW?
 - *pms*, *pcif*
 - *pms* = -12.78%
 - *pcif* = +0.32%
 - What happens to the volume of food imports from the ROW?
 - *qxs*
 - *qxs* = +60.11%
 - *Is this what you expected?*
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- What happens to total volume of food imports into EU? *qiw*
 - EU's food trade balance? **DTBALi**
 - What happens to food output in EU? *qo*
 - What about the price of food in the ROW market?
pm
 - Does EU's food self-sufficiency fall?
 - *To answer this, click on*
View/Updated Data/Updated GTAP View
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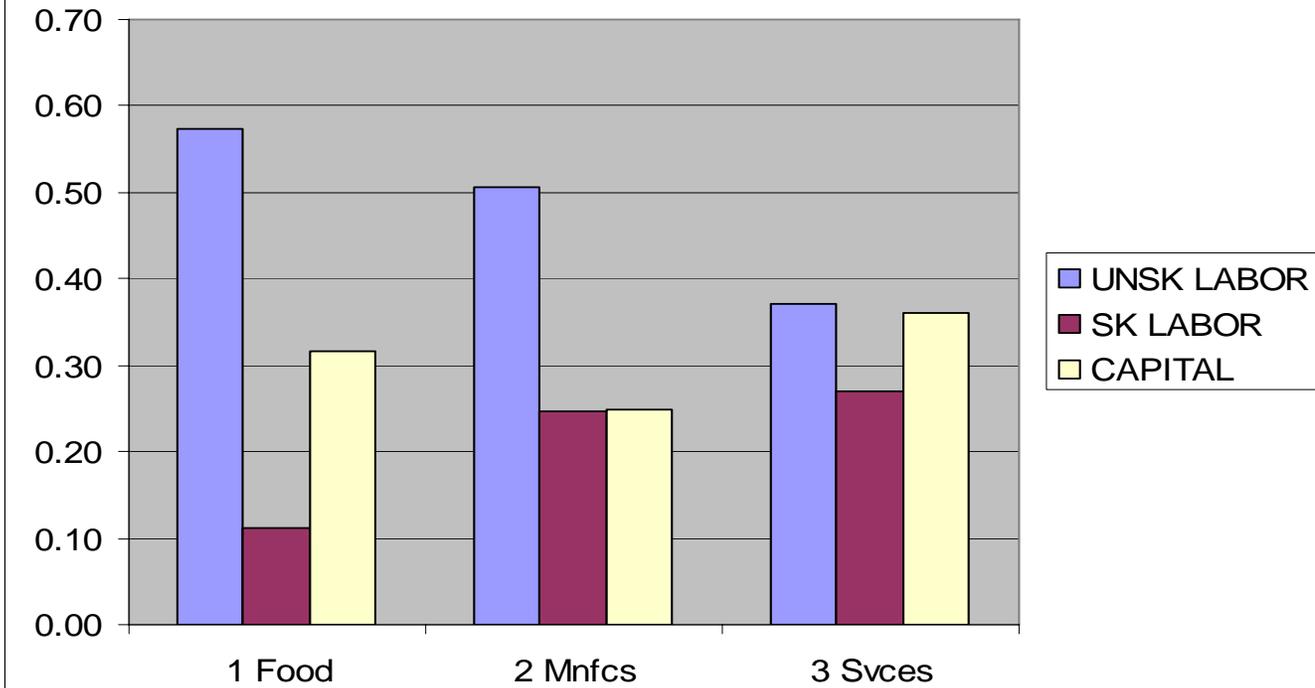
What about factor use in “food” production in ROW?

- Select **ROW** in left-hand box
 - Click on **qfe**
 - Changes in demands for the primary factors by the ROW food sector
 - Demand for land has not changed – why??
 - Increased demands for all other factors
 - Look at factor price changes in ROW
 - Now look at **qf**
 - Increased demand for intermediates too.
 - So output/ha has risen – due to increased use of other factors
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- How does output of other sectors in EU change?
 - What happens to unskilled wages in EU? *pm*
 - What happens to skilled wages and price of land & capital in EU?
 - As expected? (look at factor shares in costs of each sector in EU)

 - So we have general equilibrium effects in other sectors
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EU's FACTOR COST SHARES



Also GE effects in other regions

- In the ROW
 - Food output rises
 - Food prices rise
 - Output of manufactures falls
 - Price of land rises
 - Food trade balance improves
 - ROW imports of manufactures from EU increase
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Was the tariff correctly shocked?

- **View|Updated data|Updated Tax Rates**
 - Double click on **line 10**
 - 'Food' 'All REG' 'All REG'
 - Note the new tax rate is close to zero
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Saving the solution data & shocks

- You may wish to keep the solution, perhaps so your report can be written up later
 - Click on **File|Save Outputs|Solution file**
 - Select directory and give a file name
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Copying results to a spreadsheet

- This is extremely useful – copy to spreadsheet
 - You can then prepare tables and figures for your reports.
 - Eliminates time and potential errors with re-inputting numbers
 - Double click on any variable in the solution
 - Now click on **Copy** from RunGTAP's main menu
 - Now start Excel, and paste!
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