Team Doha - Arab Winter

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Model Setup

 Removed tariffs between Egypt and the other Middle East Countries (XME)

Shock tms(TRAD_COMM,"Egypt","XME") = target% 0 from file tms.shk;

Shock tms(TRAD_COMM,"XME","Egypt") = target% 0 from file tms.shk;

 Results (e.g. changes in welfare) were not very large as these countries do not trade very much

So this leads to....

SHOTS FIRED!!!!!



An increase of tariffs in Egypt and XME on imports from the USA by 25%

Welfare Changes

	Allocative Efficiency	Terms of Trade	Total	% GDP
Egypt	229	142	87	-0.1%
EU	95	1,466	1,561	0.0%
USA	897	⁶ , 4,587	5,484	-0.1%
XME	2,216	636	1,580	-0.3%

- MENA, Egypt, and the US face decreases to welfare, while the EU comes out better off
- But do these policies result in welfare gains anywhere within the US?

Subsidies! Subsidies! Subsidies!

- The change in the allocative efficiency of the land commodity acted as a contribution to welfare (+112)
 - We found that this results from an 80% subsidy on wheat.
 - There was the decrease in wheat production of 4.34% has led to the US moving closer to equilibrium (i.e. a decrease in the deadweight loss triangle)
- Analogously, machinery and electronics have subsidies (in terms of export taxes), but exports increased, which resulted in a decrease in welfare for the US.

	Welfare	Volume	Тах	
	Contribution	Change	Rates	
Cereal	18	28	64	
Wheat	129	164	81	
Other	34			
Total	112	4	296	

Preventing the EU collapse? Probably not.

- Welfare in the EU rises largely because of the terms of trade
 - Overall, exports from the EU rise in price, and imports into the EU become cheaper

Changes in Factor Prices					
	Pre-Sim	Post-Sim	%Ch		
EU	1.00	1.0017	0.17%		
USA	1.00	0.9969	-0.31%		

• Although the change is small, the EU receives 11% of its imports from the US, hence the large impact in terms of trade

How to break GTAP



- Export taxes on energy from the US to MENA acted as a contribution to US welfare (the quantity exported decreased, but there was an export tax subsidy)
- In the process of finding this we (i.e. Pete) noticed that tax rates changed from the based data – for ONLY energy exports from the US to XME – even though there were no shocks to tax rates
- Cause? Small exports in energy? (From \$229 mil to \$22 mil)

		Power of the Tariff Shock (%)						
	Base	10	20	³ 21	22	23	24	25
Export Tax rate	-44.2315	-44.2315	-44.2315	-44.2314	-38.1405	-34.6146	-30.0043	24.1576
Variable Accuracy		7	7	7	ିଏ 7	6	6	6
Data Accuracy		7	6	6	6	6	6	6

Solution?

Change the solution method from stock Gragg 2-4-6 to include 2 sub-intervals with automatic accuracy at 90%

Conclusions: Did it work?

> When asked what is best in life:

To crush your enemies, see them driven before you, and to hear the lamentation of their women.

- Conan the Barbarian

 Despite the welfare decrease, Egypt and XME still ended up with increases in GDP, whereas the US decreased!

	Change in GDP	
Egypt	668	NOX
USA	30,867	QU.
XME	4,923	

The future? US to bring democracy to MENA?