

THE CURRENT ROUND OF AGRICULTURAL TRADE NEGOTIATIONS:

Should we bother about domestic
support?

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and

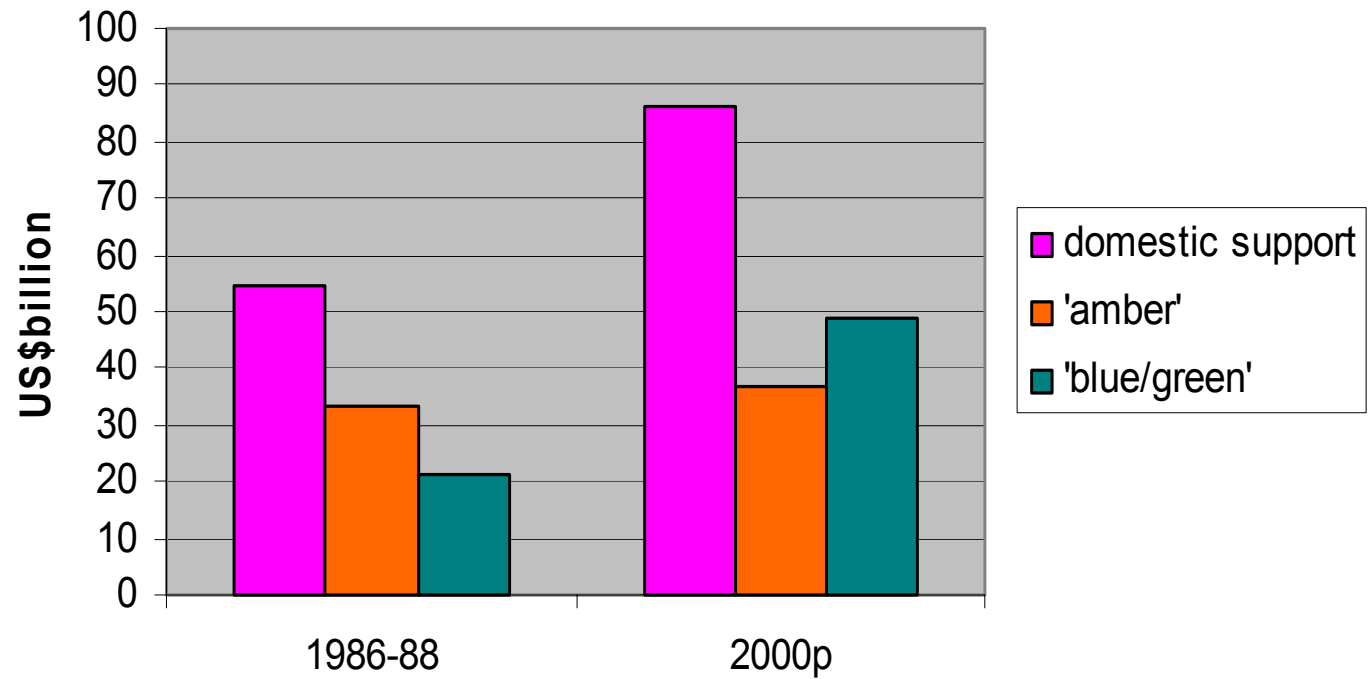
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URAA and domestic support

- ‘coupled’: amber box
- Largely ‘decoupled’: blue & green boxes
- Total amber box spending to be reduced by 20%
- Some OECD countries have switched from amber to blue/green policies (CAP, FAIR)
- Least effective component of URAA

- We make use of OECD's PSE data
- We classify:
 - 'amber': payments based on output, or input use
 - 'blue/green': payments based on acreage, animal numbers, farm income
- For OECD as a whole, has been substantial growth in 'blue/green' payments
- But no reduction in 'amber' payments

OECD measures of domestic support



Proposals to Doha Round on domestic support

- Retain all 3 boxes, & reduce amber spending
- Formula approach to eventually eliminate amber & blue box spending
- Only 2 boxes: ‘exempt’ & ‘non-exempt’
- Place cap on amber, or total spending in all boxes, in developed countries
- Multifunctionality – ‘Pandora’s box’?

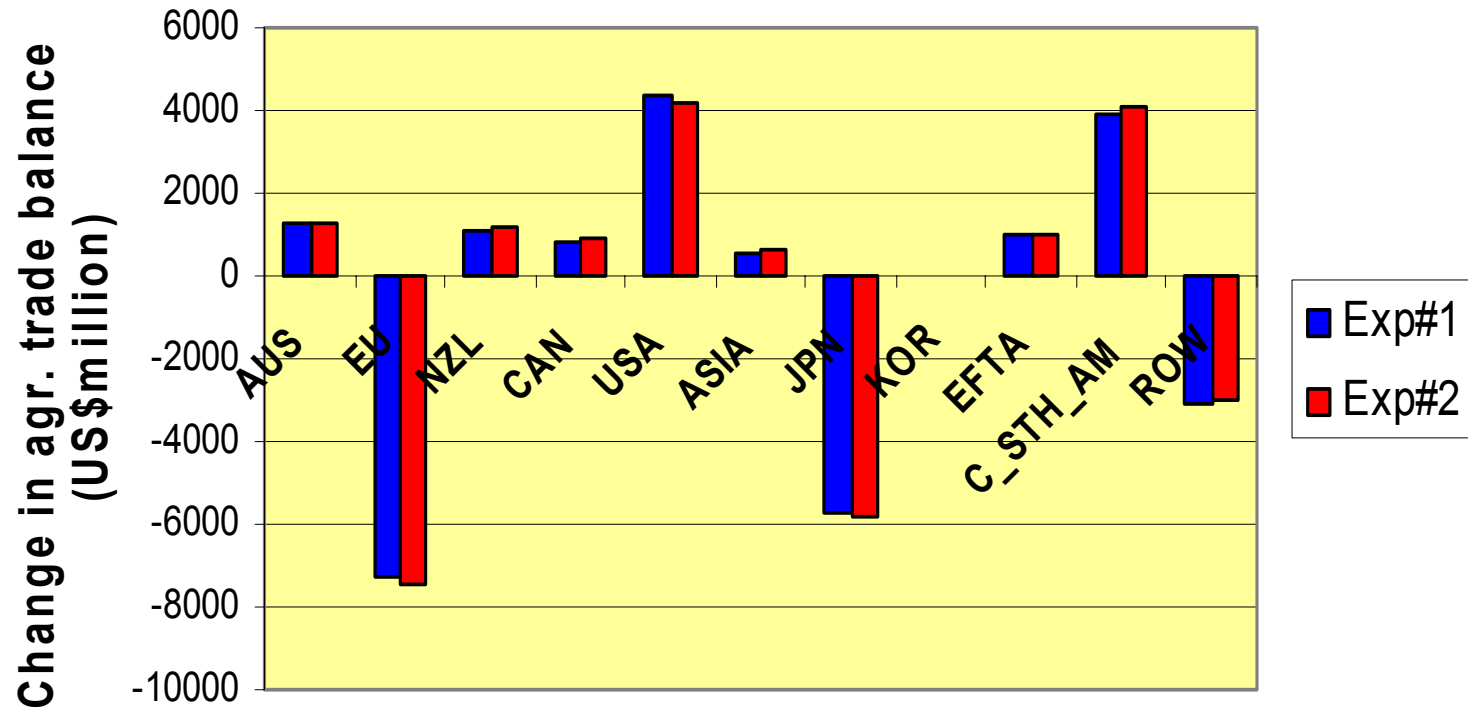
Methodology

- Used GTAP model
- Version 5 dataset (includes domestic support data based on OECD)
- Modified standard model to include variables to measure change in total support payments based on land or capital
- Design 2 domestic support reforms & compare with a base of border reforms only

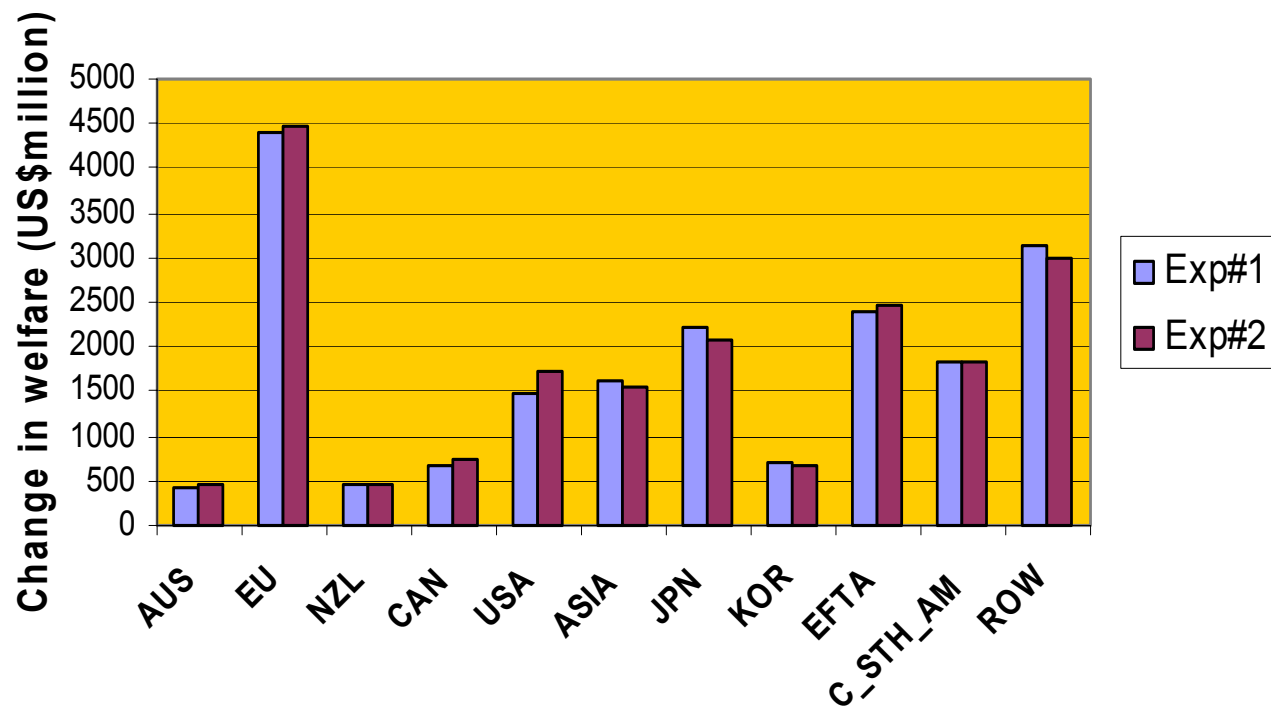
The experiments

- #1 (Base) 36% cuts to tariff & export subsidy rates in food and agriculture – *total* farm ‘blue/green’ spending held fixed
- #2 As above, plus a 20% cut in amber (output and int. input subsidy) rates in farming
- #3 As in #2, but we allow total ‘blue/green’ spending to rise in US, EU & Japan

Cuts to amber payments make little difference to trade...



... nor to welfare gains



How decoupled are ‘blue/green’ payments in GTAP?

Own-production response (%) to increase in domestic support

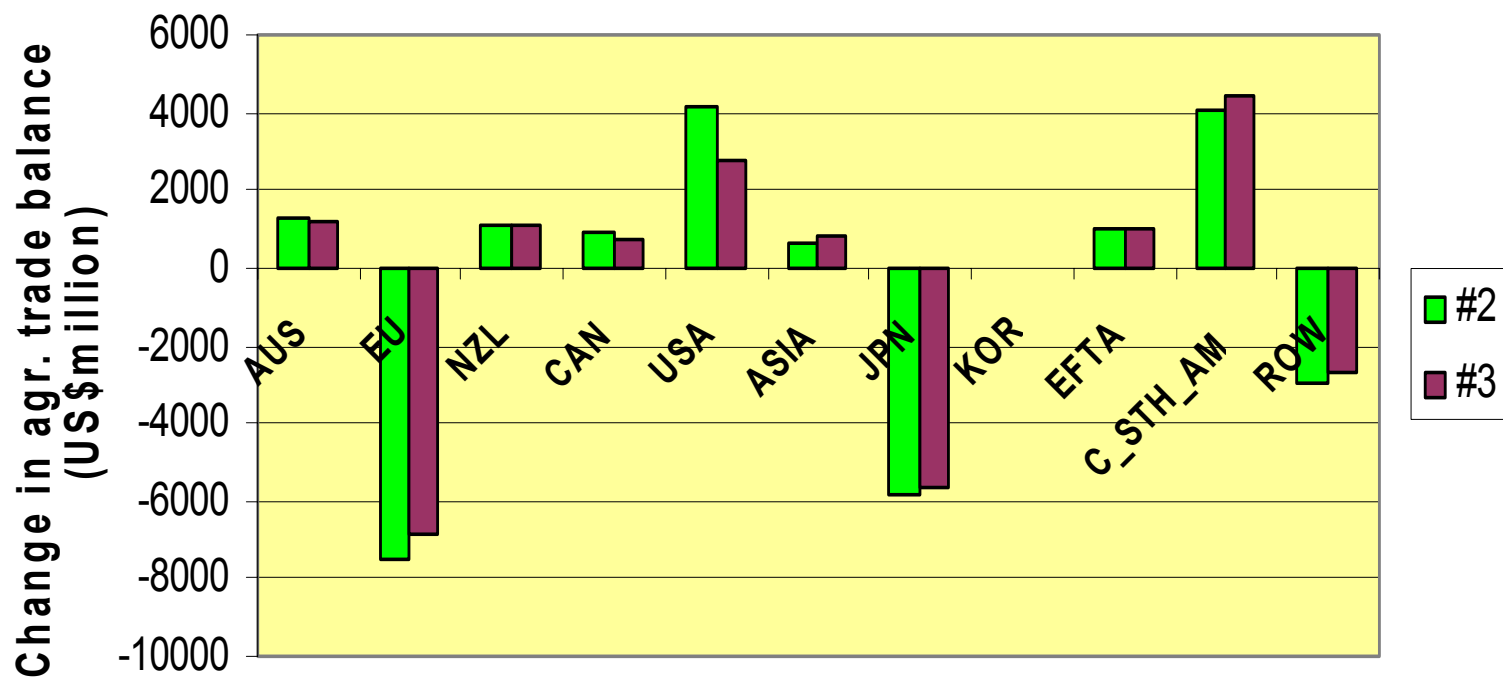
	EU	US
TO_L(i,r) shocked by +10%:		
Wheat	4.44	11.00
Oth_grain	3.63	3.24
Ctl	3.2	4.94
Milk	1.2	1.25
TF_L(“land”,j,r) shocked by –10%:		
Wheat	0.17	1.42
Oth_grain	0.15	0.28
TF_L(“capital”,j,r) shocked by –10%:		
Ctl	0.28	0.31
Milk	0.14	0.08

How decoupled are ‘blue/green’ payments in GTAP?

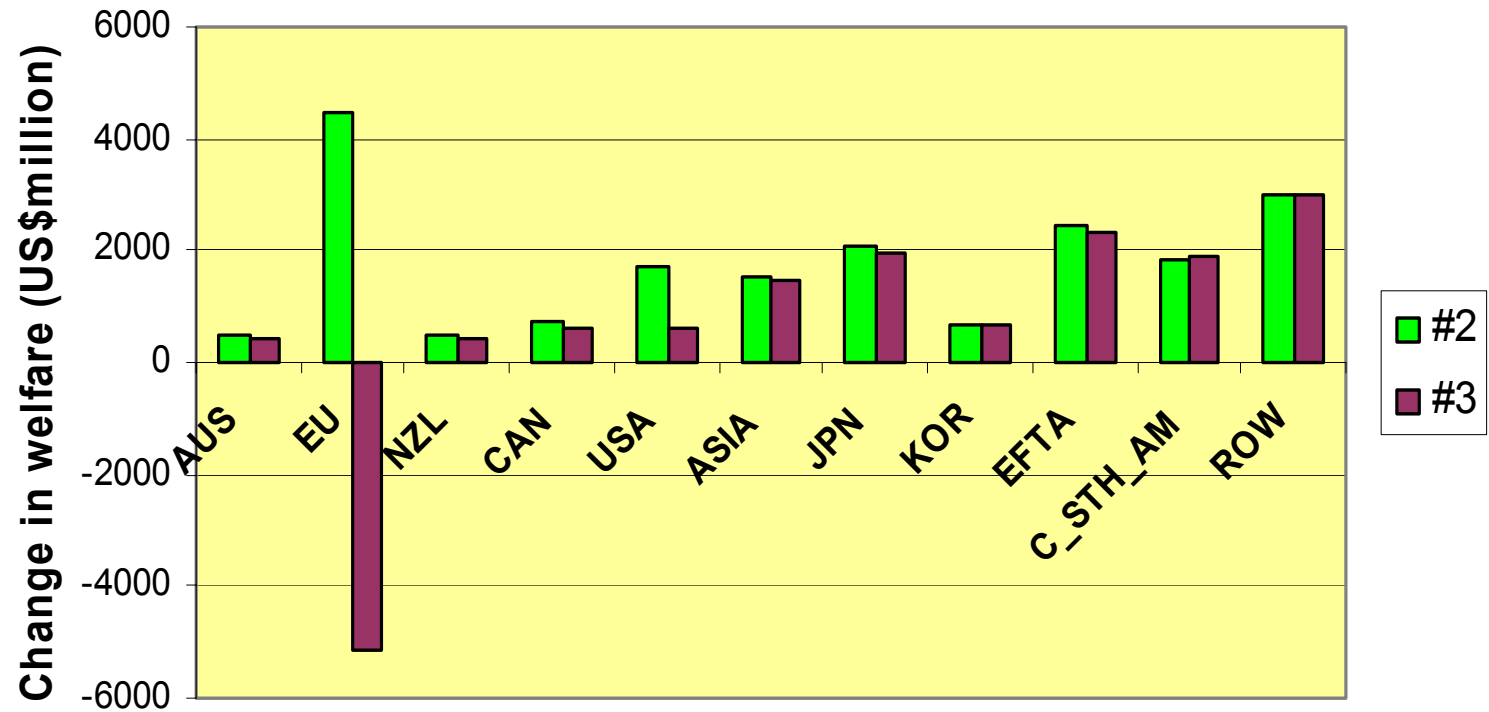
- Wealth elasticities----
 - US: 0.087 for corn & 0.270 for soybean (Chavas & Holt)
 - From GTAP:

Wealth elasticities: land & capital subsidies	EU	USA
Wheat	0.073	0.125
Oth_grain	0.069	0.023
Oilseeds	0.147	0.032

Increased 'decoupled' spending does make some impact on trade



..and some regions experience smaller welfare gains



What happens to total domestic support spending in these three experiments?

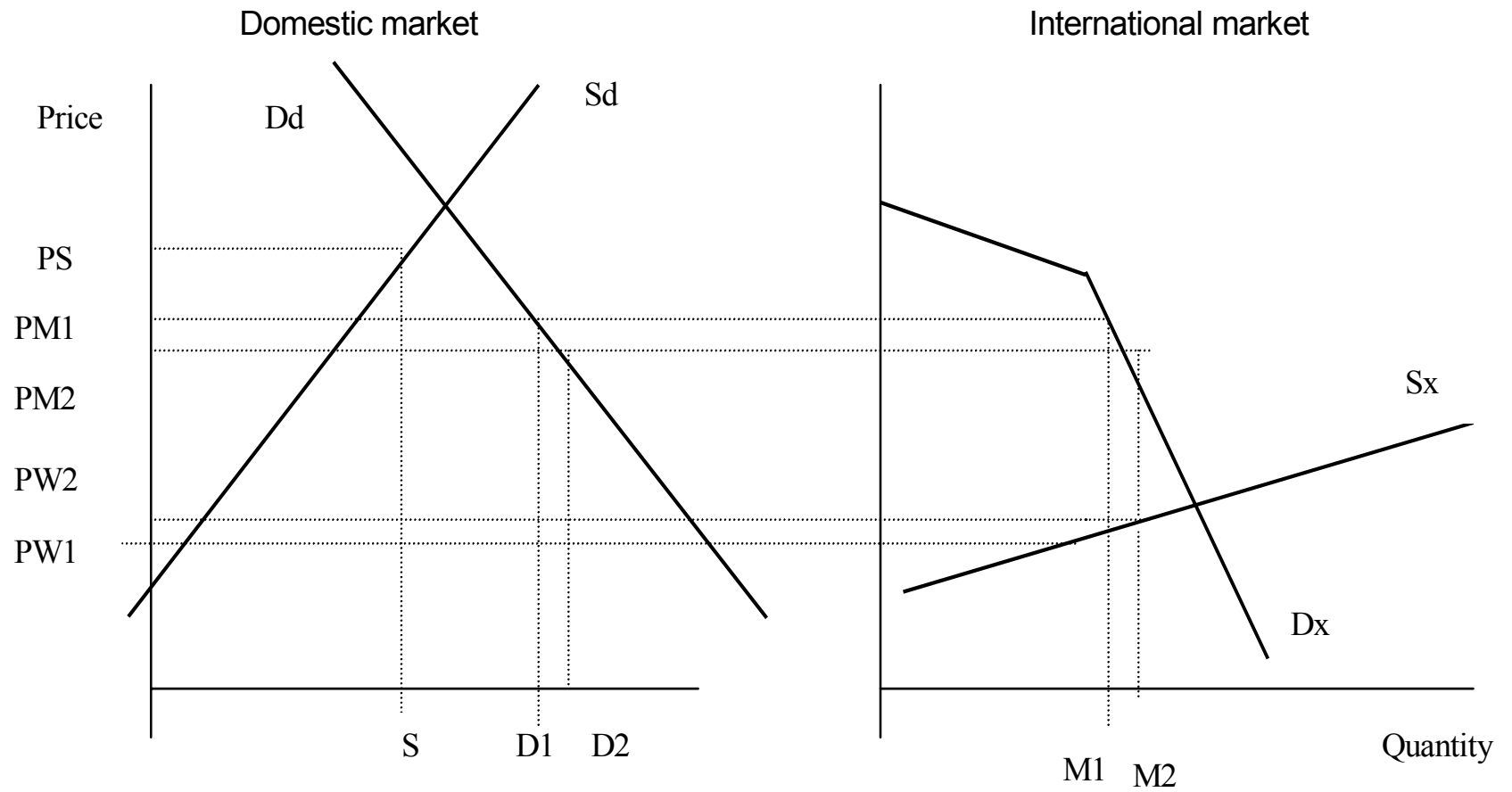
Domestic Agricultural Support Expenditure

	Base Data	Exp#1	Exp#2	Exp#3
	(US \$million)	(% change from base data)		
EU				
Output subsidies ^a	816	-2.5	-21.6	-22.3
Int. input subsidies ^b	2104	-5.4	-62.0	-57.9
Land/capital payments ^c	69196	0.0	0.0	43.0
Total domestic support	72116	-0.2	-2.1	45.1
USA				
Output subsidies	5363	3.0	-17.0	-18.2
Int. input subsidies	3840	1.8	-18.6	-19.2
Land/capital payments	18409	0.0	0.0	46.8
Total domestic support	27612	0.8	-5.9	25.0

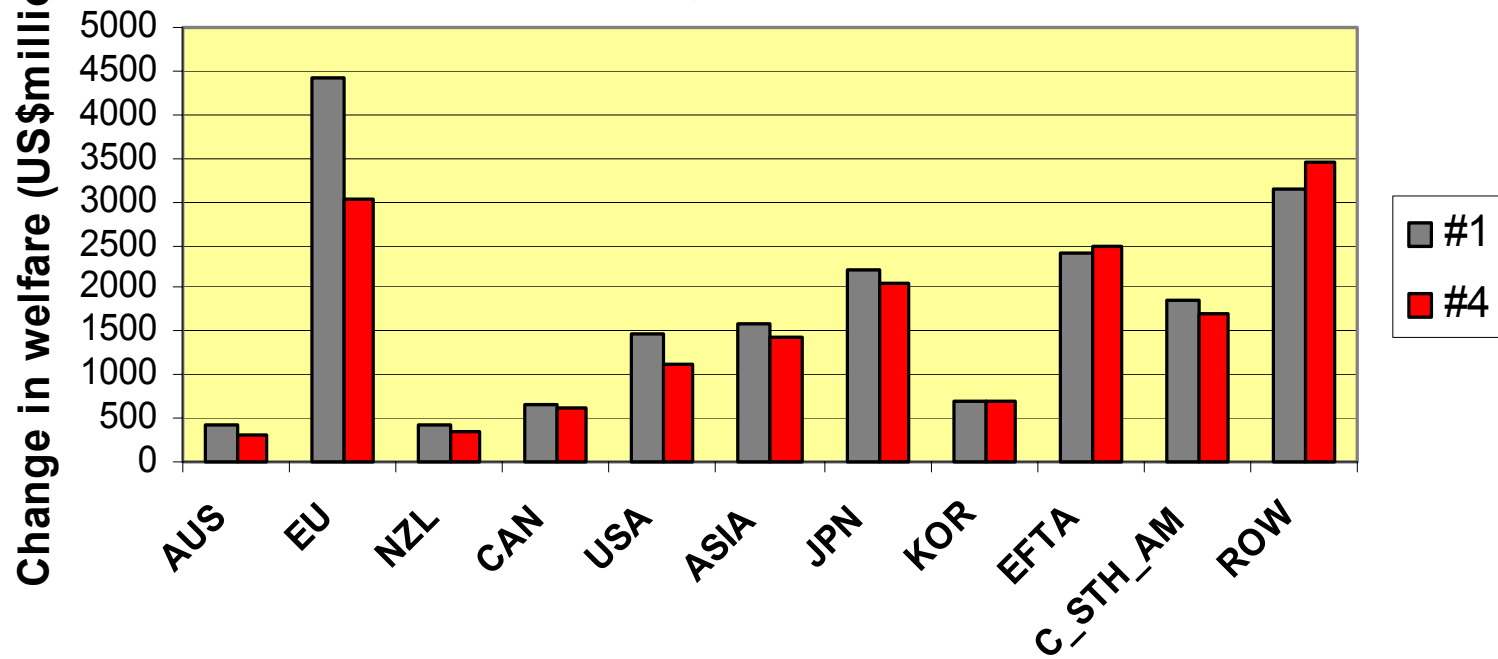
What might happen if no limits are agreed for any type of domestic support?

- In final experiment, we allow increases in output subsidies (the most ‘coupled’) as compensation for tariff cuts
- Permit in EU and Japan (for wheat, other grains, cattle & milk), Japan (rice) and in US (milk)
 - since outputs from these sectors declined when we reformed trade policies (exp#1)

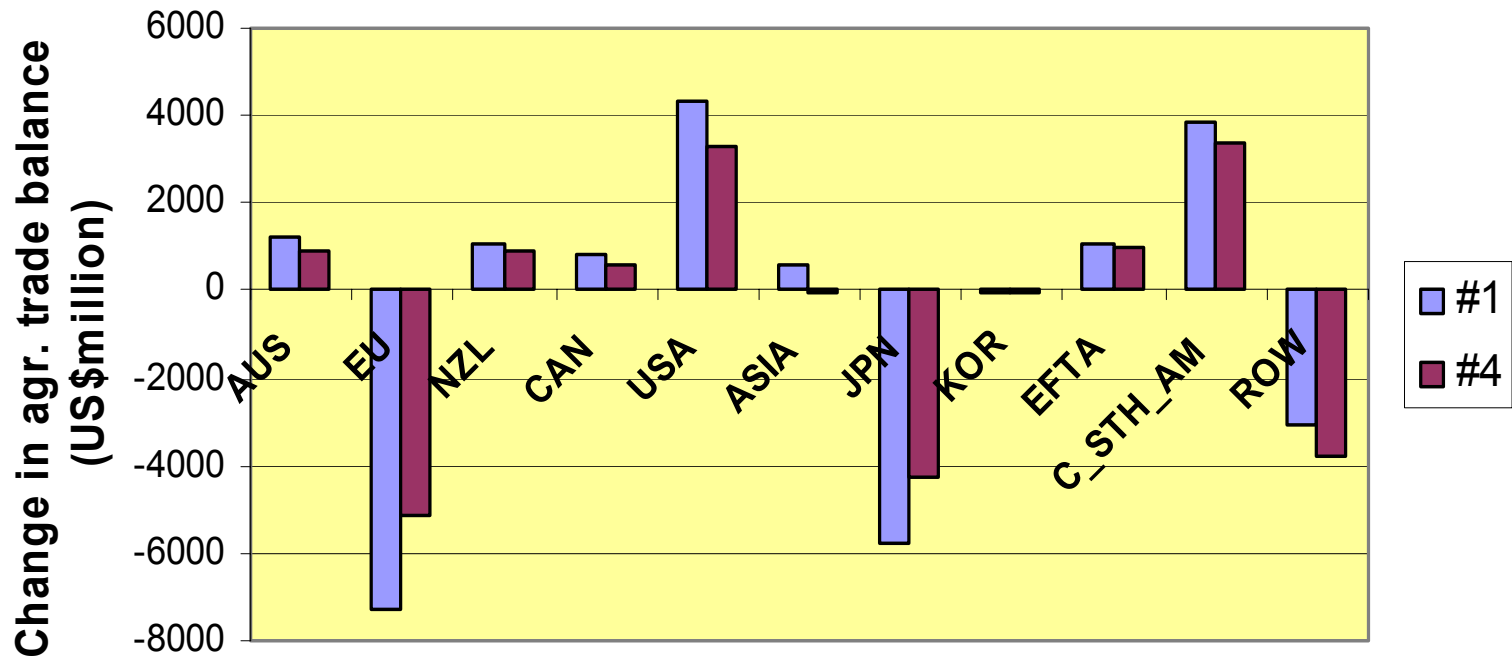
Figure 3 Linkages Between Domestic Support and Trade Policies



Apart from EU, negative impacts on welfare are not great



..and many regions still experience improved trade balance



Domestic support spending increases...

Domestic Agricultural Support Expenditure

	Base Data	Exp#1	Exp#4
	(US \$million)	(% change from base data)	
EU			
Output subsidies ^a	816	-2.5	1209.4
Int. input subsidies ^b	2104	-5.4	-4.1
Land/capital payments ^c	69196	0.0	-0.5
Total domestic support	72116	-0.2	13.1
JAPAN			
Output subsidies	316	-7.0	2359.4
Int. input subsidies	192	-23.4	-13.5
Land/capital payments	1228	0.0	-2.0
Total domestic support	1736	-3.9	426.6
USA			
Output subsidies	5363	3.0	10.3
Int. input subsidies	3840	1.8	1.3
Land/capital payments	18409	0.0	6.8
Total domestic support	27612	0.8	6.7

Decomposition of Allocative Efficiency Gains by Tax Instrument (US\$million)

Tax Instrument	Exp#1	Exp#2
EU		
Primary factor taxes ^a	392	436
Output & int. input taxes ^b	-26	-8
Export & import taxes	4067	4089
Total Allocative gain ^c	4676	4766
ToT gains ^d	-274	-310
USA		
Primary factor taxes	-27	-11
Output & int. input taxes	-144	-89
Export & import taxes	520	518
Total Allocative gain	349	418
ToT gains	1046	1252
Japan		
Primary factor taxes	30	30
Output & int. input taxes	-115	-123
Export & import taxes	3163	3167
Total Allocative gain	3193	3183
ToT gains	-1018	-1161

Conclusions

- Improved market access makes much greater contributions to welfare gains than reforms to domestic support policies
- Developed countries may be persuaded to make deeper tariff cuts if know their domestic support wont be capped
- Tightening domestic support constraints could have negative impact on market access offers
- Reform domestic support once substantial reforms to border policies have been achieved
- Caveat – did we over-estimate decoupling?