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The Importance of Technical Barriers to Agri-Food Trade: Evidence from TBT Specific Trade Concerns (STCs) Raised at the WTO

	David Orden	, Khadija	Rouchdi	, and	Caesar	Cororaton
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Selected Paper prepared for presentation at the International Agricultural Trade Research Consortium's (IATRC's) 2019 Annual Meeting: Recent Advances in Applied General Equilibrium Modeling: Relevance and Application to Agricultural Trade Analysis, December 8-10, 2019, Washington, DC.

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Importance of Technical Barriers to Agri-Food Trade: Evidence from TBT Specific Trade Concerns (STCs) Raised at the WTO

David Orden, Khadija Rouchdi and Caesar Cororaton Virginia Tech

Presented at the International Agricultural Trade Research Consortium Annual Meeting, Washington DC December 8-10, 2019



Project Overview

- Today's presentation is part of the project "Effects of Contested Regulatory Measures on U.S. and Global Agricultural Trade" (funded by USDA/NIFA)
 - Broad aim of the project is to enhance understanding about sanitary and phytosanitary (SPS) and technical barriers to trade (TBT) regulations affecting U.S. and global agricultural trade
 - Widely accepted that these measures play an important role in determining trade opportunities, but effects are hard to quantify and so is seeking improvements in the regulatory environment
- Focus of project is on exporters' revealed concerns the specific trade concerns (STCs) raised for discussion in the WTO SPS and TBT committees
- Undertaken by Virginia Tech's Center for Agricultural Trade with collaboration of Lee Ann Jackson, Erik Wijkström and Christiane Wolff (WTO) and Shawn Arita (USDA)

Project Overview (cont)

- This presentation examines the extent to which TBT revealed concerns arise in relation to Agri-Food and Other Product sectors taking development levels of members into account
 - part of our taking inventory of the SPS and TBT STCs
 - Cororaton, Caesar and David Orden. "<u>The Importance of Technical Barriers to Agri-Food Trade: Evidence from the TBT Specific Trade Concerns Raised at the WTO</u>." GII-ISCE Working Paper No. 2019-1, Virginia Tech, June 15, 2019
 - Khadija Rouchdi Ph.D. dissertation, in progress
- Other components of the overall project examine agrifood STCs in further depth and are utilizing econometric modes to evaluate the effects of the measures STCs are directed toward on levels and duration of trade



Presentation Addresses Three Questions

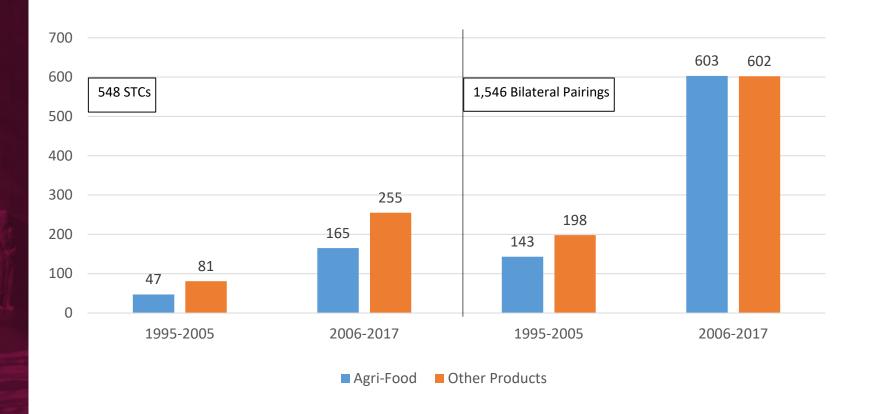
- What are the levels of participation in agri-food and other product TBT STCs by developed and developing members in terms both of their measures maintained as importers being questioned by exporters and in raising concerns about measures of other members
- What are the directional patterns of these STCs (characterizing who raises STCs directed toward whom) across the two product categories and levels of development
- Are there differences in the objectives of measures and issues raised in STCs about agri-food versus other products or based on levels of development of members the STCs are directed toward



Framework of the Inventory

- Database: IMS Summary of TBT STCs 1995-2017
 - Provides consistent multilateral data on importers the STCs are directed toward, when raised, products, members raising the STCs, objectives of measures, and issues raised by exporters
- 2 product groups: Agri-Food and Other Products
 - Sometimes aggregated All Products
- 2 levels of development: Developed and Developing
 - Sometimes assessed with further disaggregation
- Two angles to look at STCs from: Directed Toward Importers versus Raised By Exporters
 - 73 members involved in TBT STCs of which 48 have had one or more STCs directed toward them as importers, while 67 have raised one or more STCs as an exporter
- Two activity measurements: 548 TBT STCs; 1,546
 "bilateral pairings" of members raising STCs Wirginia Technology

STCs and Bilateral Pairings, 1995-2017





Importance of Agri-Food STCs

- During 1995-2017, Agri-Food TBTs account for
 - 212 (38.7%) of the 548 STCs directed toward developed and developing members
 - 746 (48.3%) of the 1,546 bilateral pairings of members raising STCs
 - 374 (53.7%) of the 696 bilateral pairings raised by developing members



Who toward Whom (based on bilateral pairings)

	illihor fels 21C at	Importers STC are Directed Toward						
Agri-Foo	od (746)	Other Products (800)						
Developed	Developing	Developed	Developing					
108	264	100	378					
14.5%	35.4%	12.5%	47.3%					
218	156	213	109					
29.2%	20.9%	26.6%	13.6%					
Colum	n Total	Colum	n Total					
326	420	313	487					
43.7%	56.3%	39.1%	60.9%					
	108 14.5% 218 29.2% Colum 326	14.5% 35.4% 218 156 29.2% 20.9% Column Total 326 420	Developed Developing 108 264 14.5% 35.4% 218 156 29.2% 20.9% 26.6% Column Total Column Total 326 420 313					



Disaggregation of Member Groups (Agri-Food and Other Product aggregated to All Products)

				Bilateral Pairings							
Group of Members	Number of	STCs Directed Toward		Directed	l Toward	Bilateral Pairings					
(our categories)	Members	Gro	oup	Gro	oup	Raised by Group					
		Number	Percent	Number	Percent	Number	Percent				
Developed	12	198	36.1%	639	41.3%	850	55.0%				
US	1	49	8.9%	84	5.4%	241	15.6%				
EU	1	116	21.2%	436	28.2%	256	16.6%				
Other Developed	10	33	6.0%	119	7.7%	353	22.8%				
Developing	61	350	63.9%	907	58.7%	696	45.0%				
BRIC	4	139	25.4%	380	24.6%	130	8.4%				
Other Developing											
High Income	16	79	14.4%	173	11.2%	170	11.0%				
Upper-Middle Income	19	83	15.1%	212	13.7%	259	16.8%				
Lower-Middle Income	15	48	8.8%	139	9.0%	118	7.6%				
Least Developed	7	1	0.2%	3	0.2%	19	1.2%				
Total	73	548	100.0%	1,546	100.0%	1,546	100.0%				

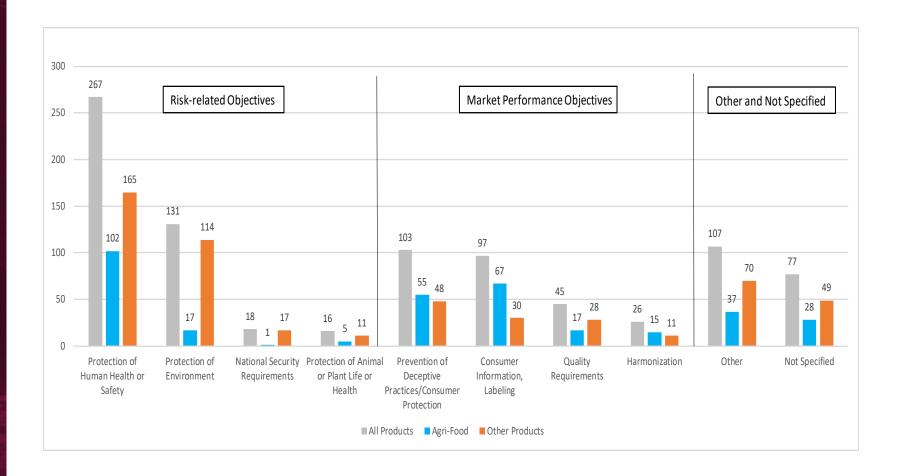


Who toward Whom Eight Member Groups, All Products (based on bilateral pairings)

			In	npor	ters STCs are	Directed Toward	d			_	
	Developed										
						Other Developing					
	United States	European Union	Other Developed	-	BRIC	High Income	Upper- Middle Income	Lower- Middle Income	Least Developed	Total Pairings Raised by Exporters	
Exporters Raising the STCs	Percent of	Bilateral Pairir	ngs Raised by E	xpor	ters Directed	Toward Each Gr	oup of Impo	rters (row sur	ns = 100.0%)	_	
Developed										_	
US	0.0%	20.3%	4.1%		31.1%	15.4%	18.7%	10.0%	0.4%	241	
EU	5.1%	0.0%	4.7%		38.3%	20.7%	17.2%	13.7%	0.4%	256	
Other Developed	4.0%	24.4%	6.8%		28.9%	13.6%	11.6%	10.5%	0.3%	353	
Developing										_	
BRIC	17.7%	51.5%	6.2%		6.9%	3.8%	8.5%	5.4%	0.0%	130	
Other Developing											
High Income	8.8%	37.1%	5.9%		20.0%	5.3%	15.9%	7.1%	0.0%	170	
Upper-Middle Income	5.4%	40.9%	8.5%		12.7%	7.7%	16.6%	8.1%	0.0%	259	
Lower-Middle Income	4.2%	50.0%	20.3%		21.2%	0.8%	0.8%	2.5%	0.0%	118	
Least Developed	0.0%	31.6%	47.4%		21.1%	0.0%	0.0%	0.0%	0.0%	19	

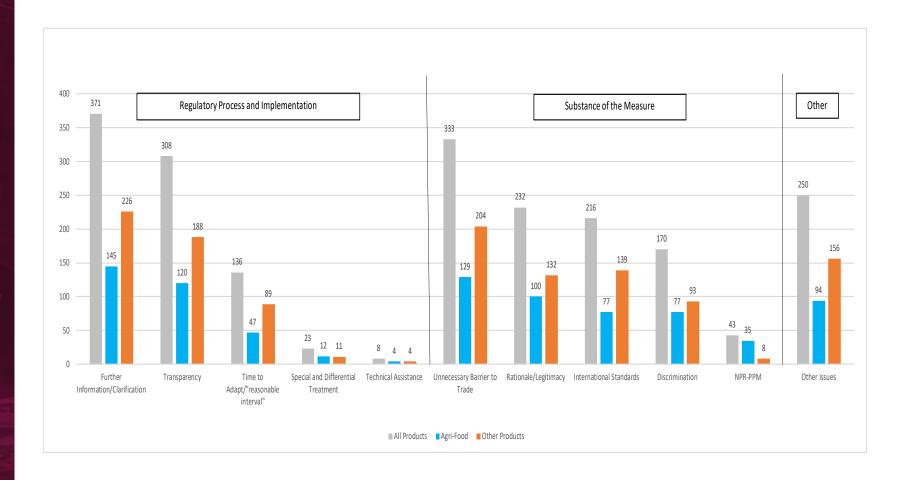


Objectives of Importers





Issues Raised by Exporters





Issues Raised by Exporters (cont)

	Agri-Food			Other Products			
	Developed	Developing	Total	Developed	Developing	Total	
Number of STCs	77	135	212	121	215	336	
Number of Issues	307	533	840	426	824	1,250	
Average Number	4.0	3.9	4.0	3.5	3.8	3.7	
	Percer	nt of STCs Direc	ted Toward N	nembers in which	Each Issue is R	Raised	
Regulatory Process and Implementation							
Further Information/Clarification	62.3	71.9	68.4	65.3	68.4	67.3	
Transparency	36.4	68.1	56.6	47.9	60.5	56.0	
Time to Adapt/"Reasonable Interval"	14.3	26.7	22.2	24.8	27.4	26.5	
Special and Differential Treatment	14.3	0.7	5.7	8.3	0.5	3.3	
Technical Assistance	3.9	0.7	1.9	3.3	0.0	1.2	
Substance of the Measure							
Unnecessary Barrier to Trade	70.1	55.6	60.8	57.9	62.3	60.7	
Rationale/Legitimacy	48.1	46.7	47.2	39.7	39.1	39.3	
International Standards	31.2	39.3	36.3	33.9	45.6	41.4	
Discrimination	46.8	30.4	36.3	24.0	29.8	27.7	
NPR-PPM	28.6	9.6	16.5	3.3	1.9	2.4	



Correlations among Issues Raised by Exporters about Substance of the Measure (all products)

	Substance of the Measure								
	Unnecessary Barrier		International						
	to Trade	Rationale/Legitimacy	Standards	Discrimination	NPR-PPM				
Substance of the Measure									
Unnecessary Barrier to Trade	333	169	141	125	26				
Rationale/Legitimacy	169	232	113	89	19				
International Standards	141	113	216	72	8				
Discrimination	125	89	72	170	16				
NPR-PPM	26	19	8	16	43				
Unnecessary Barrier to Trade	100.0%	72.8%	65.3%	73.5%	60.5%				
Rationale/Legitimacy	50.8%	100.0%	52.3%	52.4%	44.2%				
International Standards	42.3%	48.7%	100.0%	42.4%	18.6%				
Discrimination	37.5%	38.4%	33.3%	100.0%	37.2%				
NPR-PPM	7.8%	8.2%	3.7%	9.4%	100.0%				



Agri-Food TBT STCs Inventory: Phase 2

- More detailed case study of 31 Agri-Food TBTs STCs using minutes of TBT Committee meetings
 - Relatively intense: raised for over one year (4 or more meetings)
 - Recent: active in 2015-2017, traced forward from time first raised
 - Code minutes for IMS issues and 18 additional categories related to process (5), type of measure (5), basis/substance of measure (10)
 - Track participation intensity (e.g.: US and EU account for 22.7% of bilateral pairings; 32.3% of statements made and 38.4% of issues raised in these 31 STCs)
 - Characterize issues among concerned exorters and dynamics of the STCs for four sub-groups: alcoholic beverages (10); nutrition warning labeling (6); horizontal regulations (5); and product-specific regulations (8) (narratives and coding results)
- Evaluate trade before/during/(after) STC



Selected References

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