China's Experience Under the MFA/ATC

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Introduction

January 1, 2005

- Textiles and clothing (T&C) fully integrated into the WTO
- Decades-long regime of T&C quotas ends
- China's T&C import quantities increased six-fold from 2000 to 2006
- U.S. imposes safeguards on (some) Chinese T&C

We examine

- China's relative treatment under the MFA and ATC
- China's quantity, price and quality response following quota relaxation
- Impact on other U.S. trading partners

Background: The MFA/ATC Regime

MFA – Multifiber Arrangement (1974-1994)

- Signed in 1974
- Grew out of a series of voluntary export restraints imposed by the US and Europe on large Asian apparel and clothing exporters
- Kept textile and clothing (T&C) products out of GATT/WTO

ATC – Agreement on Textile and Clothing (1995-2004)

- Signed in 1994 as part of the Uruguay Round; ended the MFA
- Vehicle for integrating T&C products into GATT/WTO rules

Background: The MFA/ATC Regime

ATC Integration of T&C products occurred in four phases

- Countries were free to choose which products were relaxed in each phase as long as a set share of 1990 import quantity was relaxed
- Countries generally relaxed "less-sensitive" products first

		Share of Export	Increase in Quota	Number of HS
Phase	Starting Date	Volume Integrated	Growth Rate	Products Integrated
	January 1, 1995	16	16	318
ll II	January 1, 1998	17	25	744
III	January 1, 2002	18	27	745
IV	January 1, 2005	49	n/a	2,978

 China not eligible for first two rounds because it was not yet a member of the WTO

Data: US MFA/ATC Database

Country-category-year database

- Assembled from U.S. bilateral quota agreements from 1984-2004
 - 71 countries
 - 1986 data is missing
 - 1968-83 in process
- Quotas assigned in 191 "OTEXA categories" (e.g. cotton trousers)
 - Observation in database might be a super-, subset of these
 - Mapping of HS to categories included in database
- Observe
 - "Base quota" set by specific limit
 - "Adjusted quota" after borrowing/lending across categories/time
 - Exports

Expired Performance Reports

Country: China

Agreement Term: 01JAN1994-31DEC2000 Agreement Period: See Category

Customs: 31DEC1999

EXPIRED PERFORMANCE REPORT

Page 3

February 4, 2000

Level Coverage & Description	Unit & CONV Fact_	Base Level_	Adjustments Made	Adjusted Level	Imports Charged	_% Fill_	Foo:notes
341 : 01JAN1998-31DEC1998 WAG COT. SHIRTS/BLOUSES,N-KNIT	DOZ 12.10	682,293 8,255,745	cos	718,719 8,696,500	698,089 8,446,877	97.13	
341 -Y : 01JAN1998-31DEC1998 COT NK BLOUSE WG 2+COL WARP/FILL	DOZ 12.10	409,376 4,953,450	со	411,687 4,981,413	292,015 3,533,382	70.93	•
342 : 01JAN1998-31DEC1998 COTTON SKIRTS	DOZ 14.90	266,599 3,972,325	со	271,931 4,051,772	271,931 4,051,772	100.00	•
345 : 01JAN1998-31DEC1998 COTTON SWEATERS	DOZ 30.80	128,774 3,966,239	SSU	132,632 4,085,066	121,660 3,747,128	91.73	•
347/348 : 01JAN1998-31DEC1998 Cot trousers/slacks & shorts	DOZ 14.90	2,341,850 34,893,565	SCF	2,529,199 37,685,065	2,529,199 37,685,065	100.00	*
350 : 01JAN1998-31DEC1998 COTTON DRESSING GOWNS, ROBES ETC.	DOZ 42.60	163,758 6,976,091	SCF	176,859 7,534,193	176,859 7,534,193	100.00	•
351 : 01JAN1998-31DEC1998 COTTON NIGHTWEAR/PAJAMAS	DOZ 43.50	547,437 23,813,510	SCF	590,267 25,676,615	590,267 25,676,615	100.00	•
352 : 01JAN1998-31DEC1998 COTTON UNDERWEAR	DOZ 9.20	1,637,299 15,063,151	SCF	1,753,594 16,133,065	1,753,594 16,133,065	100.00	•
359 -C : 01JAN1998-31DEC1998 OVERALLS AND COVERALLS ONLY	KG. 8.50	593,756 5,046,926	SCF	624,721 5,310,129	624,721 5,310,129	100.00	•
359 -V : 01JAN1998-31DEC1998 VESTS ONLY	KG. 8.50	873,526 7,424,971	COSU	873,177 7,422,005	486,449 4,134,817	55.71	*
360 : 01JAN1998-31DEC1998 COTTON PILLOWCASES	NO. 0.90	7,613,286 6,851,957	COSU	7,608,718 6,847,846	5,613,045 5,051,741	73.77	*
360 -P : 01JAN1998-31DEC1998	NO. 0.90	5,192,996 4,673,696	ssu	5,431,621 4,888,459	5,171,971 4,654,774	95.22	*

An asterisk (*) in the footnote column indicates U.S. Customs data used. A footnote page appears after each country. S = Swing, SA = Shift Added, SS = Shift Subtracted, OS = Overshipment

N = Consultation Level Increase, U = Carryforward Used, SU = Shortfall Used, O = Other (See footnotes)

Outline of Empirical Results

We examine

- Quota coverage, i.e., percent of T&C imports covered by quotas
- The extent to which quotas are "binding"
- Quota growth rates
- Volume and price outcomes associated with quota removal
- Impact on other U.S. trading partners

Quota Coverage, 1990-2004

Fraction of Categories covered by Specific Limit

	Fraction of Specific Limits		Fraction of Specific Limits
Country	(%)	Country	(%)
China	61	Macau	22
Korea, South	53	Brazil	22
Taiwan	51	Poland	22
Hong Kong	46	Singapore	21
Indonesia	42	Uae	20
Thailand	41	Bangladesh	20
Malaysia	39	Mauritius	18
Mexico	38	Cambodia	17
Sri Lanka	38	Dominican Repul	16
Romania	33	Jamaica	15
Philippines	31	Egypt	9
Japan	31	Colombia	6
Pakistan	25	Guatemala	4
Turkey	25	Costa Rica	4
India	22	Honduras	4

- Countries varied greatly in the share of the T&C categories covered by specific limit quotas
- China tops the list

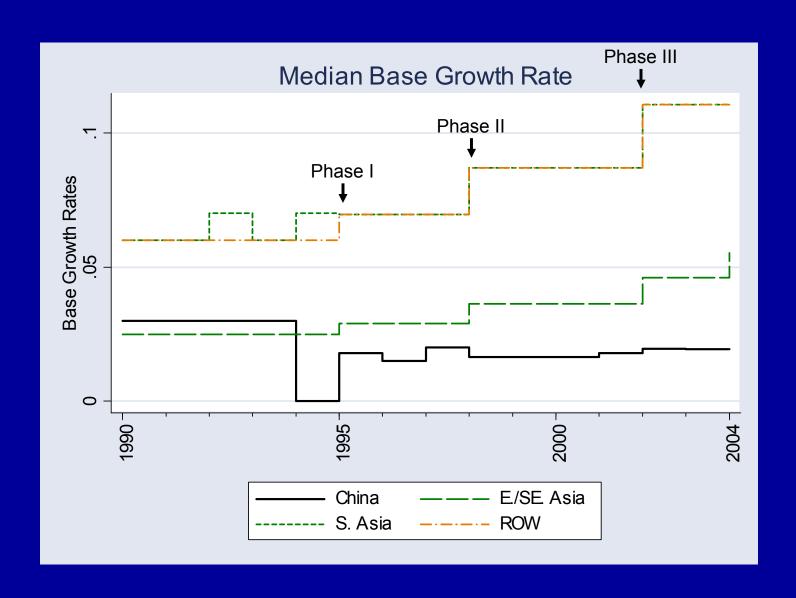
Share of "Binding" Quotas, 1984-2004

Binding Quotas

- A quota's fill rate = Exports/(Adj Base Quota)
- Quotas are generally thought to be binding when fill rate > 90%
- China is among the most constrained by this measure as well

	Percent		Percent
	Binding		Binding
Country	Quotas	Country	Quotas
Bangladesh	81	Dominican Republic	29
India	65	Malaysia	23
China	64	Singapore	22
Indonesia	59	Costa Rica	21
Pakistan	57	Turkey	18
Guatemala	45	Colombia	18
Hong Kong	42	Mauritius	14
Macau	41	Brazil	12
UAE	39	Romania	11
Philippines	37	Mexico	9
Sri Lanka	36	Egypt	9
Thailand	36	Poland	8
Cambodia	32	Japan	7
Korea, South	30	Jamaica	2
Taiwan	30	Honduras	0

Quota Growth Rates, By Region



China Was Relative Constrained under the MFA/ATC

Previous slides show that

- A relatively high share of China's imports were covered by quotas
- A relatively high share of China's quotas were binding
- China faced relatively low quota growth rates
- China also faced limited ability to adjust their quotas using flexibilities (e.g., carryover, carryforward, swing, etc.)

We now examine quantity and price responses to quota removal

- By phase of quota relaxation
- Recall: China ineligible for relaxation of phase I and II products until 2001, when it joined the WTO

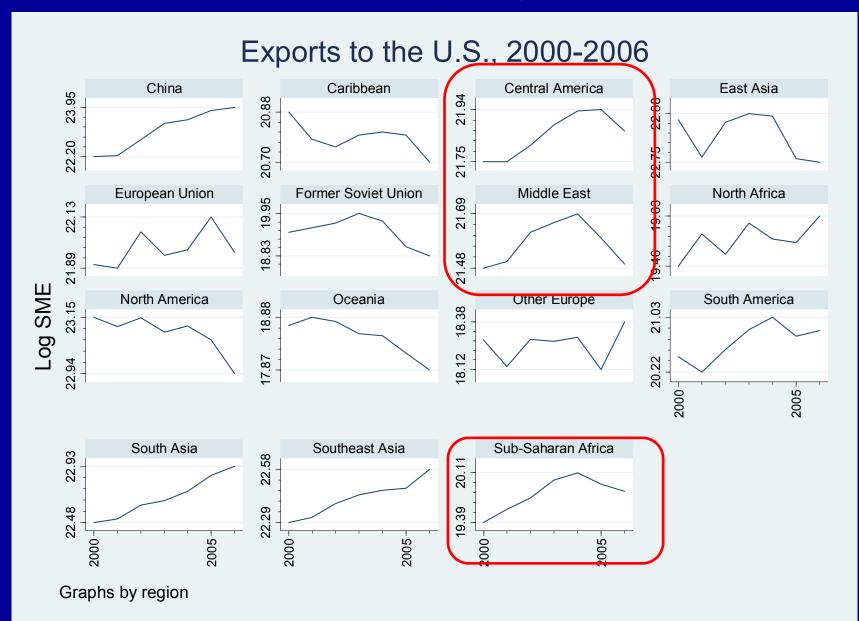
China's Post-Liberalization Surge

Region	Phase I	Phase II	Phase III	Phase IV
China	9	9	306	271
Caribbean	47	0	-12	-1
Central America	33	-10	6	1
East Asia	-10	24	57	-24
European Union	2	-3	13	64
Former Soviet Union	-50	-21	-18	-61
Middle East	-34	-1	15	-12
North Africa	-46	23	-8	-4
North America	13	5	4	-14
Oceania	-42	48	-15	-52
Other Europe	102	12	21	-30
South America	-65	-51	44	-13
South Asia	33	18	5	20
Southeast Asia	-47	18	-13	0
Sub-Saharan Africa	-53	10	69	-16
All Regions	3	3	31	14
All Regions (ex. China)	3	2	9	-2
China (2002)	42	32		
All Regions (2002)	8	14		

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All T&C Exports, by Region 2000-06



Outcomes: Quantity Growth by Phase

Regress change in quantity on full set of region-year dummies, by phase

$$\Delta \ln q_{crht} = \beta_{1rt} ChinaBound_{h,t-1} + \beta_{2rt} ChinaUnbound_{h,t-1} + \nu_{crht}$$

- c: country, r: region, h: HS code, t: time
- I.e., in 2005, report average change in quantities in China's bound and unbound products for each region
- Two rows for China: the change in the phase year and the change in 2002, the year it joined the WTO

	Phas	e I	Phase	e II	Phase	e III	Phase	: IV
	Δ Ln (S		Δ Ln (S		Δ Ln (SME)		Δ Ln (SME)	
Coefficients	Unbound	Bound	Unbound	Bound	Unbound	Bound	Unbound	Bound
Integration Year (2002 for	Phase I-III)							
x China	0.41 ***		0.93 ***	2.26 ***	1.36 ***	1.81 ***	1.28 ***	1.73 ***
x Caribbean	0.21		-0.16	-0.17	-0.38	-0.25 *	-0.36 ***	-0.30 ***
x Central America	-0.26 *		-0.13	-0.05	0.30 *	0.10	-0.19	-0.26 ***
x East Asia	0.16		0.17 **	-0.68 ***	0.09	0.00	-0.22 ***	-0.58 ***
x European Union	0.01		-0.02	-0.12	-0.01	0.05	-0.15 ***	-0.20 ***
x Former Soviet Union	0.09		0.28	-0.07	-0.49 ***	-0.22	-0.92 ***	-1.14 **
x Middle East	-0.07		0.08	0.11	0.11	-0.22	-0.32 ***	-0.42 ***
x North Africa	0.35		0.33 ***	0.31	-0.17 ***	-0.25	0.01	-0.09
x North America	0.01		0.05	-0.19	-0.11 ***	-0.07 ***	-0.29 **	-0.20 **
x Oceania	-0.26 **		-0.17 ***	-0.55 ***	-0.13	0.03	-0.19 ***	-0.26 ***
x Other Europe	0.06		-0.12 ***	1.72 **	-0.11	0.14	-0.02	-0.04
x South America	-0.15		0.03	0.33 *	0.21	0.29	-0.14	-0.11
x South Asia	0.31 ***		0.36 ***	-0.07	0.22 *	0.34	0.09	-0.08
x Southeast Asia	0.34		0.23	0.20	0.26	0.06	-0.04	-0.11
x Sub-Saharan Africa	-0.10		0.02	0.16 **	0.38 *	-0.26	-0.31 **	-0.50 ***
Observations	41,100		88,818		97,482		431,069	

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"Winners and Losers"

Kuwait (-2.89)	Taiwan (-0.55)	UAE (-0.26)	Mozambique (0.05)	
Russia (-2.81)	Swaziland (-0.54)	Ukraine (-0.25)	Malawi (0.05)	
Maldives (-2.35)	Sweden (-0.52)	El Salvador (-0.23)	Slovakia (0.06)	
Micronesia (-2.14)	Ghana (-0.51)	Guatemala (-0.23)	Trinidad and Tobago (0.09)
Georgia (-1.99)	Mali (-0.48)	Gambia (-0.23)	Iceland (0.09)	
Guinea (-1.85)	Bahrain (-0.48)	Turkey (-0.23)	Vietnam (0.09)	
Oman (-1.82)	Mauritius (-0.47)	Czech Republic (-0.21)	Chile (0.11)	
Suriname (-1.38)	Slovenia (-0.46)	Lebanon (-0.21)	Germany (0.12)	
Cyprus (-1.35)	Poland (-0.45)	Nicaragua (-0.21)	Cambodia (0.12)	
Albania (-1.25)	Venezuela (-0.45)	Colombia (-0.20)	Indonesia (0.13)	Negative for
Kyrgyzstan (-1.24)	Argentina (-0.45)	Ecuador (-0.18)	Bangladesh (0.15)	
Kazakhstan (-1.21)	Hungary (-0.44)	Brunei (-0.17)	Switzerland (0.16)	108 countries
Azerbaijan (-1.13)	Barbados (-0.40)	Australia (-0.15)	Armenia (0.16)	
Tajikistan (-1.09)	Belarus (-0.39)	Brazil (-0.15)	Uzbekistan (0.18)	
Macedonia (Skopje) (-1.00)	Malaysia (-0.39)	Belgium (-0.15)	Cook Islands (0.18)	Negative/Sig for
South Africa (-0.98)	Honduras (-0.37)	Ireland (-0.14)	Bolivia (0.22)	Negative/Sig for
Ivory Coast (-0.91)	Costa Rica (-0.36)	United Kingdom (-0.14)	Jordan (0.24)	54 countries
Ethiopia (-0.91)	Romania (-0.35)	Italy (-0.13)	Peru (0.24)	
Syria (-0.90)	Finland (-0.35)	Spain (-0.13)	Panama (0.25)	
Moldova (-0.87)	Greece (-0.35)	Japan (-0.12)	Botswana (0.26)	D!!! /C! f
Korea, South (-0.85)	Guyana (-0.34)	Namibia (-0.11)	Uganda (0.30)	Positive/Sig for
Mongolia (-0.84)	Dominican Republic (-0.34)	Uruguay (-0.10)	Saudi Arabia (0.32)	8 countries
Nepal (-0.77)	Haiti (-0.34)	Portugal (-0.10)	Nigeria (0.48)	o coarrires
Israel (-0.72)	Fiji (-0.33)	Croatia (-0.10)	Qatar (0.51)	
Singapore (-0.69)	Latvia (-0.32)	Estonia (-0.07)	Bosnia-Hercegovina (0.63))
Zambia (-0.69)	Sri Lanka (-0.31)	Mexico (-0.07)	Senegal (0.67)	
Bermuda (-0.69)	Canada (-0.31)	Paraguay (-0.04)	British Virgin Islands (0.69)
Sierra Leone (-0.68)	Austria (-0.31)	Turkmenistan (-0.04)	San Marino (0.75)	
Jamaica (-0.65)	New Zealand (-0.31)	Kenya (-0.02)	Malta (0.90)	
Cape Verde (-0.62)	Zimbabwe (-0.30)	Morocco (-0.02)	Bahamas (1.35)	
Hong Kong (-0.62)	France (-0.30)	Tanzania (0.01)	Netherlands Antilles (1.60)	
Belize (-0.61)	Egypt (-0.29)	Lithuania (0.02)	Laos (1.88)	
Denmark (-0.59)	Norway (-0.28)	Tunisia (0.02)	Somalia (1.94)	
Madagascar (-0.57)	Philippines (-0.28)	Pakistan (0.02)	Tokelau (2.05)	
Lesotho (-0.57)	Bulgaria (-0.27)	India (0.03)	Mauritania (3.43)	2
Macao (-0.55)	Thailand (-0.26)	Netherlands (0.05)		

China's Unit Value Response

	Phase I ΔLn (Price)		Phase II ΔLn (Price)		Phase III ΔLn (Price)		Phase IV Δ Ln (Price)	
Coefficients	Unbound	Bound	Unbound	Bound	Unbound	Bound	Unbound	Bound
Integration Year								
x China	-0.14 *		-0.38 ***	-0.81 ***	-0.54 ***	-0.66 ***	-0.37 ***	-0.53 ***
Observations	41,100		88,818		97,482		431,069	

China's Quality

Did quota removal lead to quality downgrading?

- Demand driven hypothesis: shift consumption to higher quality goods
 - Harrigan & Barrows (2007) find that US consumers shifted toward cheaper imports in 2005
 - Calculate that China's quality fell 7%
- Supply driven hypothesis: producers upgrade product characteristics
 - Estimate quality using method from Khandelwal (2007)
 - Intuition: conditional on price, good with higher market share has higher quality
 - Evidence of relative quality downgrading in China's bound products in Phase III and IV

Conclusions

China was relatively constrained under the MFA/ATC regime

- High share of imports covered by quotas
- High share of binding quotas
- Limited flexibility for adjusting quotas

When quotas were removed, China's T&C exports to the U.S. grew disproportionately

- Nearly all countries experienced export declines in Phase IV products in 2005
- New safeguards in place through 2008.
 - Other mechanism exist to constrain China's exports through 2013 (Walley and Dayaratna-Banda, 2007)
- What about Vietnam, Cambodia and Bangladesh?

Thank You!