

Supplementary Appendix:

The internationalization of production and compliance in WTO disputes

In this appendix, we provide supplementary information on the TiVA data, given the additional measures we used to operationalize our variable of interest, matching Table 2 in the main text, substantive results from the analysis (matching Figures 3 and 4), the universe of cases we studied, policies that brought compliance in response to disputes, the operationalization of compliance, and the coding of the European Union with regards to Political Constraints dataset. It is important to note that in the TiVA data set the data are available in five-year blocs, reducing the temporal coverage of the data. We circumvent this issue by using linear interpolation for the years between observations.¹

In addition, we provide a series of robustness checks for our analysis. First, we demonstrate that issue complexity is effectively uncorrelated with our variable of interest, and that our results are mostly robust to its exclusion. Second, we provide an alternative measure of our dependent variable (measuring time from dispute initiation, rather than time from the circulation of the final panel's report), and demonstrate that our results are not a result of our measurement choices.

TiVA Data

Variable	<i>Minimum</i>	<i>Maximum</i>	<i>Mean</i>	<i>Std. Dev.</i>
Compliance (months)	0	178	25.28	37.58
Import dependence	1.50	125.35	15.28	21.15
Intermediate import dependence	0.43	92.57	9.18	10.97
Foreign exports	3.36	51.81	19.15	10.12
Defendant polity score	-7	10	8.11	4.69
Defendant export dependence	0.02	88.60	12.87	19.95
Sector value added (logged)	6.55	13.62	10.98	1.60
Veto players	0.00	0.87	0.73	0.26
FDI share	0.00	89.56	11.46	17.50

Table A1. Descriptive statistics for relevant variables

Table A1 shows descriptive statistics for the variables in the TiVA data. For those variables that are the same across the two data sets, the values are similar. The minor differences are due primarily to the expansion of the data from the new cases that we are able to include. We also report the pertinent

¹ Given two coordinates, (x_0, y_0) and (x_1, y_1) , we compute any (x, y) between them as $y = y_0 + (y_1 - y_0) \frac{x - x_0}{x_1 - x_0}$.

information for our three independent variables of interest: import dependence, intermediate import dependence, and foreign exports.²

We are interested in demonstrating that the substantive results that we report in the main text hold in the larger TiVA data set. We focus in particular on the model in the last column of Table 1 in the main text (foreign exports), as it is the model with the highest variance explained and the smallest AIC value. As in the main text, we compute the expected duration for trade disputes on average, as well as the expected duration for two counterfactuals. In the latter case, we use the same two cases that we use in the main text. This allows us to show that our results are robust across the two data sets, and are not driven by the omission of the small subset of cases that were unavailable in the WIOD data.

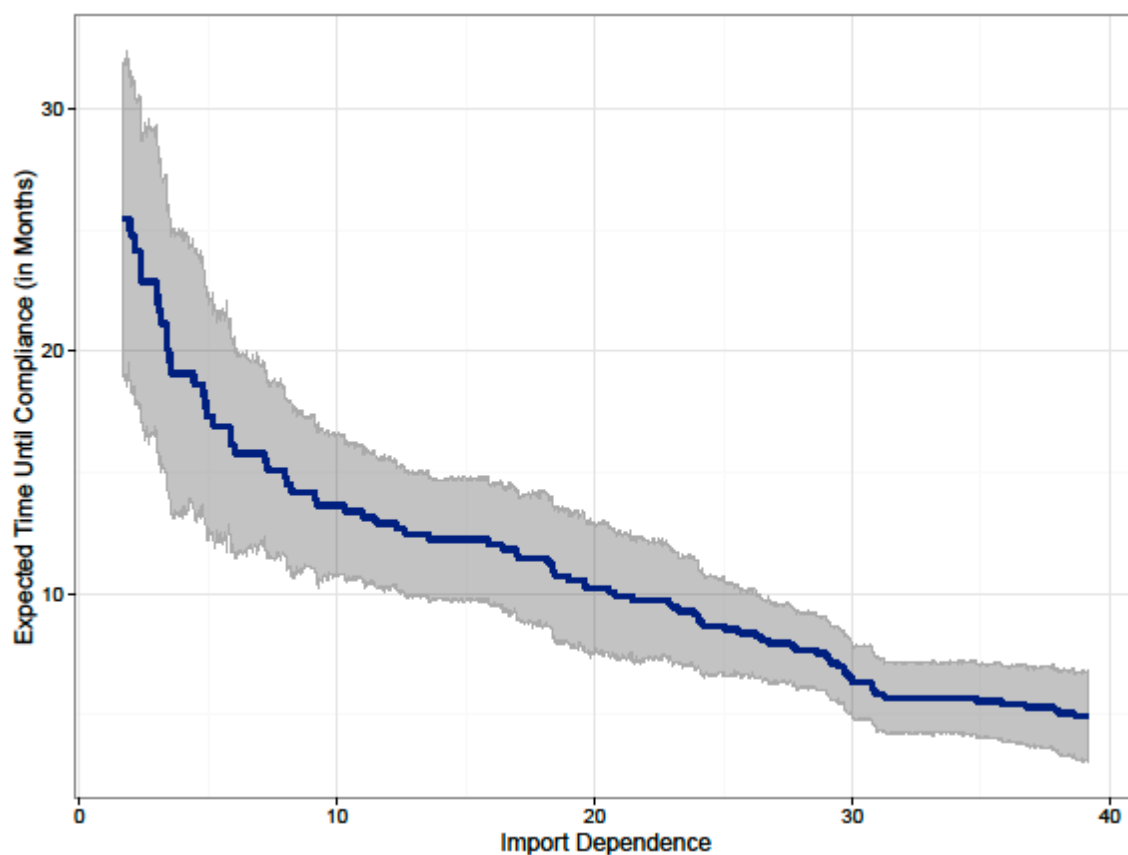


Figure A1. Average expected dispute duration

Figure A1 shows the average effect of intermediate import dependence on expected time until compliance. Although the range of the variable is larger, for consistency, we plot over the same range as the figure in the text.³ The shape of the curve is quite similar to the figure in the main text, though more monotonic in nature. It shows a strong initial decline, followed by a more gradual fall in expected duration.

² The reader may note that the maximum value for import dependence is above 100%. This is because we look at dependence on *gross* imports (i.e., both final and intermediate products). Countries with an import dependence value above 100 are those for whom the given sector is importing more than it is producing.

³ From about 50% onward, the effect is essentially flat.

We take this as evidence that neither our data decisions nor the omission of a few cases substantially affected our main results.

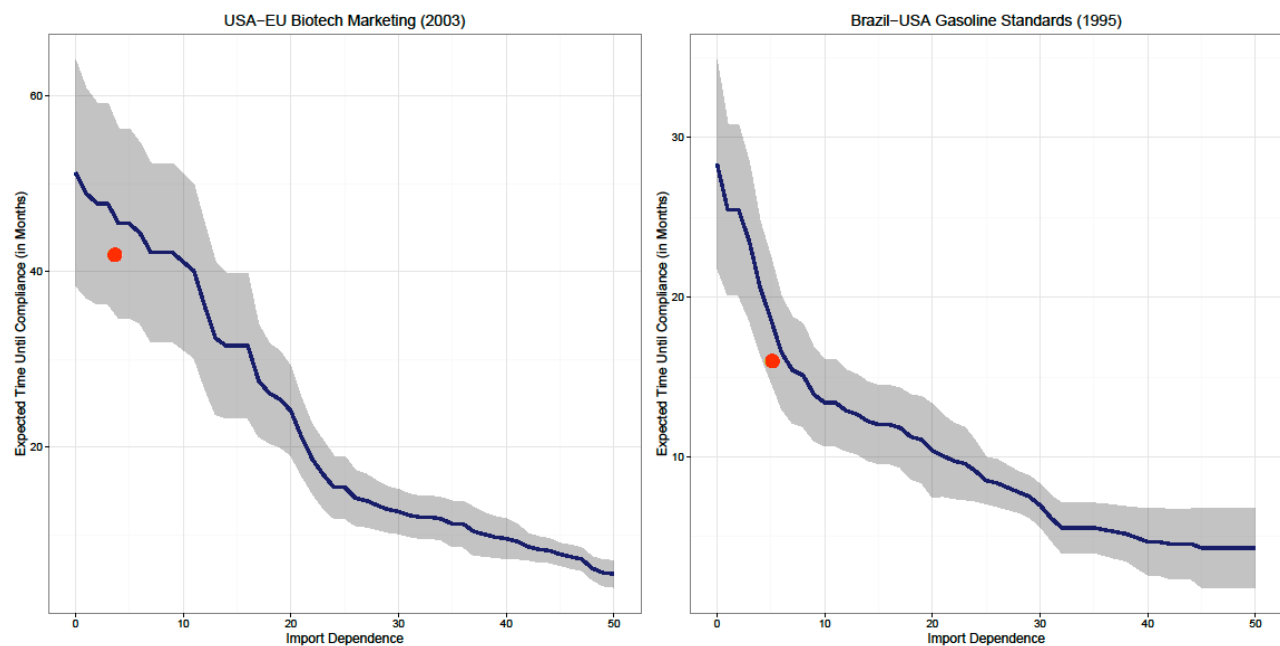


Figure A2. Predicted durations for cases in the data

Figure A2 provides additional evidence for the claim above. Here, we plot the two cases from the main analysis, the US-EU biotech marketing dispute in 2003, and the Brazil-US gas standards dispute from 1995. Once again, we use the range from the main text. The results are fairly similar. In this case, we underpredict both compliance times slightly, but the true value falls within our 95% confidence interval.. The reader may also notice that the level of intermediate import dependence, as conceptualized by TiVA, was a bit lower for the 1995 dispute than the level of import dependence, as measured by WIOD. Nonetheless, our model performs reasonably well in both cases, with a suggestion that the dispute would have lasted substantially longer if intermediate import dependence had been lower, and would have been resolved significantly more quickly if dependence had been higher. These results, along with those given in Figure 1 provide us with renewed confidence in our main results.

Issue Complexity

The reader may also be concerned about the relationship between issue complexity and our variables of interest. As we state in the main text, we define *issue complexity* in the same manner as many others in the literature: issues involving tariffs, subsidies, or quotas are deemed to be “non-complex,” whereas other measures are considered “complex.” There is undoubtedly a correlation between the two: simpler issues will be easier to resolve. All else equal, a country that decides it will comply after n days will likely bring itself into compliance more quickly on a simple issue than on a more complex issue. However, a strategic state might opt to delay compliance if it knows that the policy can be changed relatively quickly. Theoretically, issue simplicity is neither necessary nor sufficient for quick resolution of disputes. Indeed, within the WIOD data set, we see instances of complex issues being settled within a month of the

circulation of the AB's ruling, and we see simple issues that last for more than five years after the ruling is issued.

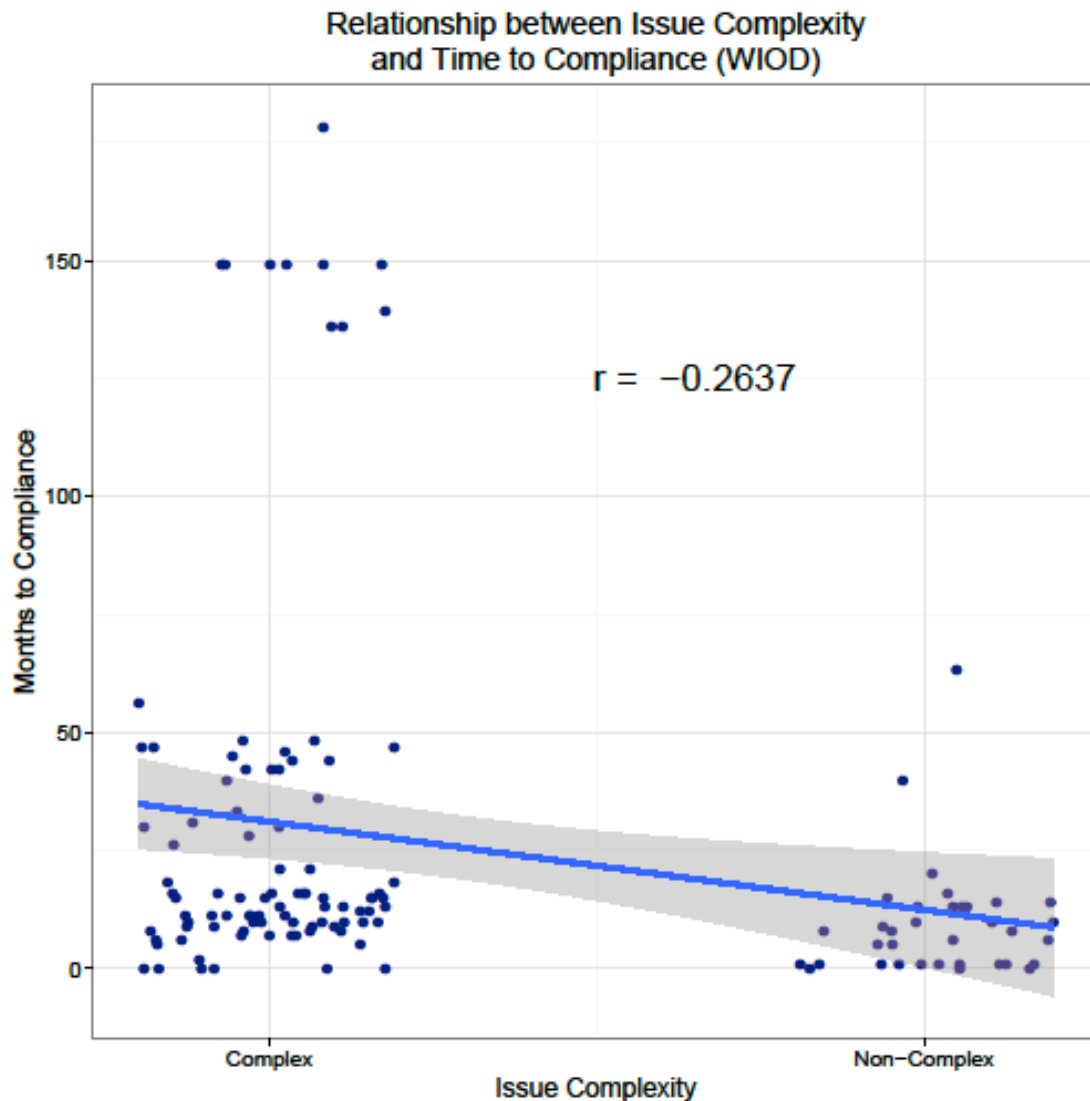


Figure A3. Relationship between issue complexity (jittered) and time to compliance

The entire WIOD data set is summarized in Figure A3.⁴ The X-axis divides the data according to issue complexity. We jitter these data for ease of viewing. The Y-axis shows the months to compliance for each data point. We also include the bivariate correlation between the two (-0.2637), and the simple linear regression line. While there is clearly a relationship between the two variables, it is not particularly strong, and certainly not powerful enough to suggest that the two measures are (nearly) identical. We take this as empirical evidence that the two concepts are notably distinct.

WIOD Data

TiVA Data

⁴ We do not include the analogous TiVA plot as it is nearly identical, and the correlation is the same through the first three digits.

	Baseline	Integration Included	Time Included	Import Dependence	Intermediate Import Dependence	Foreign Exports
Defendant Democracy	0.10 (0.08)	0.12 (0.08)	0.06 (0.09)	0.07 (0.07)	0.08 (0.07)	0.16** (0.08)
Def. Export Dependence	-0.01 (0.01)	-0.01* (0.01)	-0.01 (0.01)	-0.01 (0.01)	-0.01 (0.01)	-0.01 (0.01)
Sectoral Value Added	-0.01 (0.10)	-0.17 (0.11)	-0.26* (0.13)	-0.13 (0.12)	-0.17 (0.11)	-0.17 (0.11)
Veto Players	-1.65 (1.64)	-2.01 (1.60)	-1.18 (1.84)	-0.80 (1.46)	-1.38 (1.50)	-2.02 (1.49)
Share of FDI Stocks	-0.00 (0.01)	-0.00 (0.01)	-0.01 (0.01)	-0.02*** (0.01)	-0.02*** (0.01)	-0.02** (0.01)
EU Defendant	-0.93*** (0.32)	-0.71** (0.34)	-0.73* (0.42)	-0.64 (0.49)	-0.45 (0.48)	-1.11** (0.49)
US Defendant	-0.64** (0.29)	-0.59** (0.28)	-1.03*** (0.36)	-0.83** (0.40)	-0.78** (0.39)	-0.78** (0.38)
Import Dependence		0.04** (0.02)	0.05** (0.02)	0.01 (0.01)		
Int. Import Dependence					0.02 (0.02)	
Foreign Exports						0.05*** (0.01)
R ²	0.09	0.15	0.26	0.25	0.25	0.31
Num. obs.	125	124	124	132	132	132

*** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$

Standard errors in parentheses; all tests are two-tailed tests

Table A2. Results with Issue Complexity omitted

Table A2 provides the results from each specification in the main text, with the *Issue Complexity* variable omitted. In general, our results are fairly similar. The amount of variance explained in each model falls significantly, without the inclusion of complexity.⁵ Interestingly, its role seems to be taken up by that of the U.S. as a defendant. Whereas the *US Defendant* variable was significant at the $p < .10$ level in only one specification within the main text, it attains significance at the $p < .05$ level in each model above. Our measures of integration reach statistical significance in three of the five models, including both WIOD specifications. While the coefficients are attenuated in all cases, the effect persists across the majority of specifications.

Measuring Time to Compliance

⁵ Although not shown here, the AIC for each model climbs, relative to those in the main text, suggesting that the specification that includes complexity is superior.

In our primary analysis, we examine time to compliance, using the date of the circulation of the AB's ruling as the point of departure. However, in many cases, import-dependent firms may behave strategically, acting on expectations about the panel's ruling, and mobilizing earlier in the process. Thus, we create an alternative measure of the dependent variable, which calculates the time from dispute initiation (rather than panel ruling) to compliance, and include it in the specifications presented in the main text.

	WIOD Data			TiVA Data		
	Baseline	Integration Included	Time Included	Import Dependence	Intermediate Import Dependence	Foreign Exports
Defendant Democracy	0.15* (0.08)	0.20** (0.08)	0.17* (0.10)	0.11 (0.07)	0.17** (0.08)	0.23*** (0.08)
Def. Export Dependence	-0.02* (0.01)	-0.02** (0.01)	-0.02** (0.01)	-0.01 (0.01)	-0.01* (0.01)	-0.01* (0.01)
Issue Complexity	0.94*** (0.23)	1.15*** (0.24)	1.10*** (0.27)	0.89*** (0.24)	1.02*** (0.25)	0.86*** (0.24)
Sectoral Value Added	-0.11 (0.10)	-0.33*** (0.12)	-0.43*** (0.14)	-0.08 (0.12)	-0.16 (0.11)	-0.20* (0.12)
Veto Players	-3.30* (1.74)	-4.41*** (1.71)	-3.88* (2.07)	-1.89 (1.51)	-3.55** (1.60)	-3.44** (1.60)
Share of FDI Stocks	0.00 (0.01)	0.00 (0.01)	-0.00 (0.01)	-0.01* (0.01)	-0.01 (0.01)	-0.01 (0.01)
EU Defendant	-0.58* (0.33)	-0.22 (0.35)	-0.33 (0.42)	-0.40 (0.51)	0.09 (0.52)	-0.85 (0.53)
US Defendant	-0.49* (0.30)	-0.37 (0.29)	-0.71* (0.38)	-0.63 (0.42)	-0.46 (0.42)	-0.34 (0.42)
Import Dependence		0.07*** (0.02)	0.07*** (0.02)	0.02*** (0.01)		
Int. Import Dependence					0.06*** (0.02)	
Foreign Exports						0.06*** (0.02)
R ²	0.21	0.30	0.36	0.33	0.34	0.36
Num. obs.	124	123	123	131	131	131

*** p < 0.01, ** p < 0.05, * p < 0.1

Standard errors in parentheses; all tests are two-tailed tests

Table A3. Results from alternative specification of dependent variable

The results in Table A3 are largely consistent with those in Table 2 of the main text. The most notable difference is that the presence of veto players becomes important, potentially suggesting that these actors play a particularly important role in the early part of the dispute process. With respect to our variables of interest, we find results that are substantively similar to those in our main analysis. Each

measure of GVC integration is significant, and the magnitude of the coefficients (directly interpretable, given the linear nature of the Cox model) are generally greater than those in the original analysis. This suggests that our results were not driven by our measurement choices for the dependent variable.

The universe of cases: details of the disputes and the corresponding domestic policy that brought compliance

DS Number	Description of the dispute	Defendant	Complainant	Domestic policy that brought compliance
DS 7	Trade Description of Scallops	EU	Canada	Journal officiel de la République française "Avant-projet d'arrêté relatif aux dénominations de vente admises des Pectinidés"
DS 12	Trade Description of Scallops	EU	Peru	Journal officiel de la République française "Avant-projet d'arrêté relatif aux dénominations de vente admises des Pectinidés"
DS 14	Trade Description of Scallops	EU	Chile	Journal officiel de la République française "Avant-projet d'arrêté relatif aux dénominations de vente admises des Pectinidés"
DS 26	Measures Concerning Meat and Meat Products (Hormones)	EU	USA	European Parliament Directive 2003/74/EC
DS 27	Regime for the Importation, Sale and Distribution of Bananas	EU	Ecuador	Geneva Convention on Trade of Bananas
DS 27	Regime for the Importation, Sale and Distribution of Bananas	EU	Guatemala	Geneva Convention on Trade of Bananas
DS 27	Regime for the Importation, Sale and Distribution of Bananas	EU	Honduras	Geneva Convention on Trade of Bananas
DS 27	Regime for the Importation, Sale and Distribution of Bananas	EU	Mexico	Geneva Convention on Trade of Bananas

DS 27	Regime for the Importation, Sale and Distribution of Bananas	EU	USA	Geneva Convention on Trade of Bananas
DS 48	DS48 – Measures Concerning Meat and Meat Products (Hormones)	EU	Canada	European Parliament Directive 2003/74/EC
DS 72	Measures Affecting Butter Products	EU	New Zealand	Council Regulation No 2250/1999
DS 105	Regime for the Importation, Sale and Distribution of Bananas	EU	Panama	Geneva Convention on Trade of Bananas
DS 141	Anti-Dumping Duties on Imports of Cotton-Type Bed Linen	EU	India	Council Regulation 1515/2001 and 1644/2001, which was successfully challenged, then Council Regulation (EC) No 2239/2003
DS 174	Protection of Trademarks and Geographical Indications for Agricultural Products and Foodstuffs	EU	USA	Council Regulation (EC) No 510/2006
DS 219	Anti-Dumping Duties on Malleable Cast Iron Tube or Pipe Fittings	EU	Brazil	Council Regulation (EC) No 436/2004
DS 231	Trade Description of Sardines	EU	Peru	Commission Regulation EC 1181/2003, amending Regulation EEC 2136/89.
DS 265	Export Subsidies on Sugar	EU	Australia	Several provisions: Regulation (EC) No 1260/2001, No 318/2006, Commission Regulation (EC) No 769/2006, and amending Regulation (EC) No 493/2006
DS 266	Export Subsidies on Sugar	EU	Brazil	Several provisions: Regulation (EC) No 1260/2001, No 318/2006, Commission Regulation (EC) No 769/2006, and amending Regulation (EC) No 493/2006
DS 269	Custom Classification of Frozen Boneless Chicken Cuts	EU	Brazil	Commission Regulation (EC) No 949/2006

DS 283	Export Subsidies on Sugar	EU	Thailand, Australia	Several provisions: Regulation (EC) No 1260/2001, No 318/2006, Commission Regulation (EC) No 769/2006, and amending Regulation (EC) No 493/2006
DS 286	Custom Classification of Frozen Boneless Chicken Cuts	EU	Thailand	Commission Regulation (EC) No 949/2006
DS 290	Protection of Trademarks and Geographical Indications for Agricultural Products and Foodstuffs	EU	Australia	Council Regulation (EC) No 510/2006
DS 291	Measures Affecting the Approval and Marketing of Biotech Products	EU	USA	N/A (bilateral dialogue established on 15 Jul 2009)
DS 292	Measures Affecting the Approval and Marketing of Biotech Products	EU	Canada	N/A (bilateral dialogue established on 15 Jul 2009)
DS 293	Measures Affecting the Approval and Marketing of Biotech Products	EU	Argentina	N/A (bilateral dialogue established on 15 Jul 2009)
DS 299	Countervailing Duties on Dynamic Random Access Memory Chips	EU	Korea, Republic of	Regulation (EC) No 584/2006
DS 301	Measures Affecting Trade in Commercial Vessels	EU	Korea, Republic of	The challenged measure (TDM) expired in 2005 and was not renewed.
DS 316	Measures Affecting Trade in Large Civil Aircraft	EU	USA	Non-compliance – proceedings on-going.
DS 337	Anti-Dumping Measures on Salmon	EU	Norway	Council Regulation (EC) No 685/2008
DS 347	Measures Affecting Trade in Large Civil Aircraft	EU	USA	Non-compliance – proceedings on-going.

DS 375	Tariff Treatment of Certain Technological Products	EU	USA	Regulation (EU) No. 620/2011 amending Annex I to Council Regulation (EEC) no 2658/78
DS 376	Tariff Treatment of Certain Technological Products	EU	Japan	Regulation (EU) No. 620/2011 amending Annex I to Council Regulation (EEC) no 2658/78
DS 377	Tariff Treatment of Certain Technological Products	EU	Taiwan	Regulation (EU) No. 620/2011 amending Annex I to Council Regulation (EEC) no 2658/78
DS 397	Definitive Anti-Dumping Measures on Certain Iron or Steel Fasteners	EU	China	Regulation (EU) No. 620/2011 amending Annex I to Council Regulation (EEC) no 2658/78
DS 405	Anti-Dumping Measures on Certain Footwear	EU	China	Regulation (EU) No 765/2012 of the European Parliament and of the Council amending Council Regulation (EC) No 1225/2009
DS 2	Standards for Reformulated and Conventional Gasoline	USA	Venezuela	Environmental Protection Agency (EPA) The Regulation of Fuels and Fuel Additives: Baseline Requirements for Gasoline Produced by Foreign Refiners on August 19, 1997, revising the requirements for imported conventional gasoline.
DS 4	Standards for Reformulated and Conventional Gasoline	USA	Brazil	Environmental Protection Agency (EPA) The Regulation of Fuels and Fuel Additives: Baseline Requirements for Gasoline Produced by Foreign Refiners on August 19, 1997, revising the requirements for imported conventional gasoline.
DS 24	Restrictions on Imports of Cotton and Man-Made Fiber Underwear	USA	Costa Rica	The challenged measure expired (and not renewed) by April 1997.
DS 32	Measures Affecting Imports of Women's and Girls' Wool Coats	USA	India	61 Fed. Reg. (Federal Registry) Notification 64342

DS 33	Measures Affecting Imports of Woven Wool Shirts and Blouses from India	USA	India	61 Fed. Reg. Notification 64342
DS 58	Import Prohibition of Certain Shrimp and Shrimp Products	USA	India	64 Fed. Reg. 36946 US Department of State revision of guidelines on the turtle/shrimp law
DS 58	Import Prohibition of Certain Shrimp and Shrimp Products	USA	Malaysia	64 Fed. Reg. 36946 US Department of State revision of guidelines on the turtle/shrimp law
DS 58	Import Prohibition of Certain Shrimp and Shrimp Products	USA	Pakistan	64 Fed. Reg. 36946 US Department of State revision of guidelines on the turtle/shrimp law
DS 58	Import Prohibition of Certain Shrimp and Shrimp Products	USA	Thailand	64 Fed. Reg. 36946 US Department of State revision of guidelines on the turtle/shrimp law
DS 99	Anti-Dumping Duty on Dynamic Random Access Memory Semiconductors (DRAMs) of One Megabit or Above from Korea	USA	Korea, Republic of	65 Fed. Reg. 59391
DS 138	Imposition of Countervailing Duties on Certain Hot-Rolled Lead and Bismuth Carbon Steel Products Originating in the United Kingdom	USA	EU	65 Fed. Reg. 13713
DS 160	Section 110(5) of US Copyright Act	USA	EU	N/A (See: Congressional Research Service RL32014, stating that mutually agreed solution is on-going without legislative changes)
DS 166	Definitive Safeguard Measures on Imports of Wheat Gluten	USA	EU	66 Fed. Reg. 18510 (The challenged measures were expired and not renewed. See:

	from the European Communities			http://trade.ec.europa.eu/wtodispute/show.cfm?id=241&code=2)
DS 176	Section 211 Omnibus Appropriations Act of 1998	USA	EU	Non-compliance
DS 177	Safeguard Measure on Imports of Fresh, Chilled or Frozen Lamb from New Zealand	USA	New Zealand	Proclamation 7502(revoking the safeguard measures)
DS 178	Safeguard Measure on Imports of Fresh, Chilled or Frozen Lamb from Australia	USA	Australia	Proclamation 7502 (Revoking the safeguard measures)
DS 179	Anti-Dumping measures on Stainless Steel Plate in Coils and Stainless Steel Sheet and Strip from Korea	USA	Korea, Republic of	66 Fed. Reg. 45278
DS 184	Anti-Dumping Measures on Certain Hot-Rolled Steel Products from Japan	USA	Japan	67 Fed. Reg. 69186
DS 192	Transitional Safeguard Measure on Combed Cotton Yarn from Pakistan	USA	Pakistan	66 Fed. Reg. 56805 Committee for the Implementation of Textile Agreements (CITA) of Dept. of Commerce directive (to the Commissioner of Customs)
DS 202	Definitive Safeguard Measures on Imports of Circular Welded Carbon Quality Line Pipe from Korea	USA	Korea, Republic of	68 Fed. Reg. 19578
DS 206	Anti-Dumping and Countervailing Measures on Steel Plate from India	USA	India	N/A

DS 212	Countervailing Measures Concerning Certain Products from the European Communities	USA	EU	Fed. Reg. 6519
DS 213	Countervailing Duties on Certain Corrosion-Resistant Carbon Steel Flat Products from Germany	USA	EU	69 Fed. Reg. 17131
DS 236	Preliminary Determinations with Respect to Certain Softwood Lumber from Canada	USA	Canada	Softwood Lumber Agreement of 2006
DS 248	Definitive Safeguard Measures on Imports of Certain Steel Products	USA	EU	Proclamation 7741
DS 249	Definitive Safeguard Measures on Imports of Certain Steel Products	USA	Japan	Proclamation 7741
DS 251	Definitive Safeguard Measures on Imports of Certain Steel Products	USA	Korea, Republic of	Proclamation 7741
DS 252	Definitive Safeguard Measures on Imports of Certain Steel Products	USA	China	Proclamation 7741
DS 253	Definitive Safeguard Measures on Imports of Certain Steel Products	USA	Switzerland	Proclamation 7741
DS 254	Definitive Safeguard Measures on Imports of Certain Steel Products	USA	Norway	Proclamation 7741

DS 257	Final Countervailing Duty Determination with respect to certain Softwood Lumber from Canada	USA	Canada	Softwood Lumber Agreement of 2006
DS 258	Definitive Safeguard Measures on Imports of Certain Steel Products	USA	New Zealand	Proclamation 7741
DS 259	Definitive Safeguard Measures on Imports of Certain Steel Products	USA	Brazil	Proclamation 7741
DS 264	Final Dumping Determination on Softwood Lumber from Canada	USA	Canada	Softwood Lumber Agreement of 2006
DS 267	Subsidies on Upland Cotton	USA	Brazil	Public Law 112-55, see: USTR Press Release (April 6, 2010)
DS 268	Sunset Reviews of Anti-Dumping Measures on Oil Country Tubular Goods from Argentina	USA	Argentina	72 Fed. Reg. 34442
DS 277	Investigation of the International Trade Commission in Softwood Lumber from Canada	USA	Canada	Softwood Lumber Agreement of 2006
DS 282	Anti-Dumping Measures on Oil Country Tubular Goods (OCTG) from Mexico	USA	Mexico	N/A
DS 285	Measures Affecting the Cross-Border	USA	Antigua and Barbuda	Non-compliance

	Supply of Gambling and Betting Services			
DS 296	Countervailing Duty Investigation on Dynamic Random Access Memory Semiconductors (DRAMs) from Korea	USA	Korea, Republic of	N/A
DS 317	Measures Affecting Trade in Large Civil Aircraft	USA	EU	Non-compliance
DS 335	Anti-Dumping Measure on Shrimp from Ecuador	USA	Ecuador	72 Fed. Reg. 48257
DS 343	Measures Relating to Shrimp from Thailand	USA	Thailand	74 Fed. Reg. 14809
DS 344	Final Anti-Dumping Measures on Stainless Steel from Mexico	USA	Mexico	77 Fed. Reg. 29875, see: USTR Press Release (February 6, 2012)
DS 345	Customs Bond Directive for Merchandise Subject to Anti-Dumping/Countervailing Duties	USA	India	74 Fed. Reg. 14809
DS 353	Measures Affecting Trade in Large Civil Aircraft — Second Complaint	USA	EU	Non-compliance
DS 381	Measures Concerning the Importation, Marketing and Sale of Tuna and Tuna Products	USA	Mexico	n/a
DS 382	Anti-Dumping Administrative Reviews and Other Measures Related to Imports of Certain	USA	Brazil	77 Fed. Reg. 23659; USITC 4311

	Orange Juice from Brazil			
DS 383	Anti-Dumping Measures on Polyethylene Retail Carrier Bags from Thailand	USA	Thailand	75 Fed. Reg. 48940
DS 384	Certain Country of Origin Labelling (Cool) Requirements	USA	Canada	Non-compliance
DS 386	Certain Country of Origin Labelling Requirements	USA	Mexico	Non-compliance
DS 404	Anti-dumping Measures on Certain Shrimp from Viet Nam	USA	Viet Nam	77 Fed. Reg. 8101
DS 406	Measures Affecting the Production and Sale of Clove Cigarettes	USA	Indonesia	N/A (the complainant satisfied due to a deal that the US will not discriminate any other Indonesian tobacco products - e.g. cigars and cigarillos)
DS18	Measures Affecting Importation of Salmon	Australia	Canada	Australia Quarantine and Inspection Service (Department of Agriculture) announcing Quarantine Policy Memorandum 1999/51, which is successfully challenged, and finally Ministerial Statement 17 May 2000.
DS126	Subsidies provided to producers and exporters of automotive leather	Australia	USA	Government of Australia terminated the WTO-illegal grant contract to the Hower Leather Company on September 1999, which was successfully challenged by the USA and finally MAS on 31 July 2000 with temporary reduction of tariffs in various products, Howe's payments back to the Government of Australia – details available at Waarden, N. (2001) in Australian International Law Journal.
DS367	Measures Affecting the Importation of Apples from New Zealand	Australia	New Zealand	Australia Department of Agriculture, Fisheries and Forestry / Biosecurity Australia (report 2011/14)

DS31	Certain Measures Concerning Periodicals	Canada	USA	BILL C-24: The Sales Tax and Excise Tax Amendments Act, 1999
DS70	Measures Affecting the Export of Civilian Aircraft	Canada	Brazil	N/A
DS103(113)	Measures Affecting the Importation of Milk and the Exportation of Dairy Products	Canada	USA	Canadian dairy commission the Comprehensive Agreement on Pooling of Milk Revenues.
DS114	Patent Protection of Pharmaceuticals	Canada	EU	Repeal of SOR/93-134
DS139(142)	Certain Measures Affecting the Automotive Industry	Canada	Japan	Repeal of the Auto Pact (and the several provisions within).
DS170	Term of Patent Protection	Canada	USA	Bill S-17 with regards to Canada Patent Act
DS276	Measures Relating to Exports of Wheat and Treatment of Imported Grain	Canada	USA	Canada Transportation Act, Canada Grain Act
DS412(426)	Certain Measures Affecting the Renewable Energy Generation Sector	Canada	Japan	Ministry of Energy Directive MC 2013.1950
DS87(110)	Taxes on Alcoholic Beverages	Chile	EU	Ministerio de Hacienda (Ministry of Treasury and Commerce) Legislation Proposal on Beverage Tax adopted by the Congress January 2001)
DS207	Price Band System and Safeguard Measures Relating to Certain Agricultural Products	Chile	Argentina	N/A (See: USTR Foreign Trade Barrier Report 2008 that indicates the system was changed)
DS8 (10)	Taxes on Alcoholic Beverages	Japan	EU	Liquor Tax Law Amendment (October 1997) and a list of suspended tariffs.

DS76	Measures Affecting Agricultural Products	Japan	USA	Partial: Abolishment of testing requirements for entry (December 1999) and full revision by August 2001
DS245	Measures Affecting the Importation of Apples	Japan	USA	25 Aug 2005 amendments to Ministry of Agriculture, Forestry and Fisheries Notification No. 354 dated 10 March 1997" and Detailed Rules for Plant Quarantine Enforcement Regulation Concerning Fresh Fruit of Apple Produced in the United States of America dated 30 June 2004.
DS336	Countervailing Duties on DRAM	Japan	Korea, Republic of	N/A (Bilateral dialogue established March 2009)
DS75	Taxes on Alcoholic Beverages	Korea, Republic of	EU	Liquor Tax Law (2000)
DS98	Definitive Safeguard Measure on Imports of Certain Dairy Products	Korea, Republic of	EU	N/A (Safeguard measures revoked through administrative procedures – see: notes on the DSB meeting 26 September, 2000)
DS161	Measures Affecting Imports of Fresh, Chilled, and Frozen Beef	Korea, Republic of	USA	Ministry of Agriculture Notification 2000-82 and 2001-54
DS273	Measures Affecting Trade in Commercial Vessels	Korea, Republic of	EU	Measures expired and not renewed – see: notes on the DSB meeting 11 April, 2005.
DS312	AD Duties on Certain Imports of Paper from Indonesia	Korea, Republic of	Indonesia	N/A
DS391	Measures affecting the importation of bovine meat	Korea, Republic of	Canada	Notice 2012-3 of Korean Official Gazette
DS132	AD Investigation of High Fructose Corn Syrup from the US	Mexico	USA	The challenged measures removed by Mexico in May 2002 (See: Kornis, M. (2006) United States Trade Commission)
DS204	Measures Affecting Telecommunications Services	Mexico	USA	Regulation on marketing of long distance and international long distance

				telecommunications services - Diario Oficial de la Federación- 12 August 2005.
DS295	Definitive Anti-Dumping Measures on Beef and Rice	Mexico	USA	Decree amending, supplementing and repealing various provisions of the Foreign Trade Act - Diario Oficial de la Federación 21 December 2006
DS308	Tax Measures on Soft Drinks and Other Beverages	Mexico	USA	Federal Revenue Law, published December 2007 by Diario Oficial de la Federación
DS331	Anti-Dumping Duties on Steel Pipes and Tubes from Guatemala	Mexico	Guatemala	The challenged measures were removed in January 2008 - Diario Oficial de la Federación – see: notes on the DSB meeting, 14 March, 2008
DS341	Definitive Countervailing Duties on Olive Oil from the EU	Mexico	EU	The challenged measures were removed - domestic court ruling and the resolution published by the official gazette – see: notes on the DSB meeting, 11 December, 2008.
DS34	Restrictions on Imports of Textile and Clothing Products	Turkey	India	Official Gazette 24626 - Decision on the quantitative restrictions and tariff lines on items from India.
DS334	Measures Affecting the Importation of Rice	Turkey	USA	Several provisions: Official Gazette 26221, 26477, 26403.
DS46	Export Financing Programme for Aircraft	Brazil	Canada	Banco Central Brasilia Resolution 2.799 (Dec. 2000) Published in Relatorio 2000, also known as "Proex III"
DS332	Measures Affecting Imports of Retreaded Tyres	Brazil	EU	Portaria SECEX 24/2009 (See also: Brazil Supreme Court 24/06/2009
DS339	Measures Affecting Imports of Automobile Parts	China	EU	General Administration of Customs Order 58 and Order 185, repealing Decree 125: "Regarding the Announcement Abolishing the Rules for Determining Whether Imported Automotive Parts and Components Constitute Complete Vehicles" and " Decision to Abolish

				Administrative Rules on Importation of Automobile Parts Characterized as Complete Vehicles".
DS339	Measures Affecting Imports of Automobile Parts	China	USA	General Administration of Customs Order 58 and Order 185, repealing Decree 125: "Regarding the Announcement Abolishing the Rules for Determining Whether Imported Automotive Parts and Components Constitute Complete Vehicles" and " Decision to Abolish Administrative Rules on Importation of Automobile Parts Characterized as Complete Vehicles".
DS339	Measures Affecting Imports of Automobile Parts	China	Canada	General Administration of Customs Order 58 and Order 185, repealing Decree 125: "Regarding the Announcement Abolishing the Rules for Determining Whether Imported Automotive Parts and Components Constitute Complete Vehicles" and " Decision to Abolish Administrative Rules on Importation of Automobile Parts Characterized as Complete Vehicles".
DS363	Measures Affecting Trading Rights and Distribution Services for Certain Publications and Audiovisual Entertainment Products	China	USA	Several provisions: See DSB meeting 22 February, 2002.
DS395	Measures Related to the Exportation of Various Raw Materials	China	Mexico	Zongshugonggao 2012 No. 63 and Gonggao 2012 No. 97
DS395	Measures Related to the Exportation of Various Raw Materials	China	EU	Zongshugonggao 2012 No. 63 and Gonggao 2012 No. 97
DS395	Measures Related to the Exportation of Various Raw Materials	China	USA	Zongshugonggao 2012 No. 63 and Gonggao 2012 No. 97
DS413	Certain Measures Affecting Electronic Payment Services	China	USA	Non-compliance, see: DSB Meeting 16 March, 2016. Attempt made by China via "People's Bank of China Announcement [2013] No.7"

DS414	Countervailing and Anti-Dumping Duties on Grain Oriented Flat-rolled Electrical Steel from the United States	China	USA	(Contested measures expired by the circulation of panel reports)
DS50	Patent Protection for Pharmaceutical and Agricultural Chemical Products	India	USA	The Patents (Amendment) Act, 1999 (Gazette of India 26 March 1999)
DS146	Measures Affecting the Automotive Sector	India	USA	Dept. of Commerce Public Notice No. 31 (19 August 2002)
DS146	Measures Affecting the Automotive Sector	India	EU	Dept. of Commerce Public Notice No. 31 (19 August 2002)
DS54	Certain Measures Affecting the Automobile Industry	Indonesia	EU	Regulation No. 59/1999, Decrees of the Minister for Industry and Trade No. 275/1999 and No. 276/1999 and Decree of the Minister for Finance No. 344/1999
DS54	Certain Measures Affecting the Automobile Industry	Indonesia	Japan	Regulation No. 59/1999, Decrees of the Minister for Industry and Trade No. 275/1999 and No. 276/1999 and Decree of the Minister for Finance No. 344/1999
DS54	Certain Measures Affecting the Automobile Industry	Indonesia	USA	Regulation No. 59/1999, Decrees of the Minister for Industry and Trade No. 275/1999 and No. 276/1999 and Decree of the Minister for Finance No. 344/1999
DS56	Measures Affecting Imports of Footwear, Textiles, Apparel and other Items	Argentina	USA	Decree 108/99
DS121	Safeguard Measures on Imports of Footwear	Argentina	EU	Contested measure expired by 25 Feb 2000
DS155	Measures Affecting the Export of Bovine Hides and the Import of Finished Leather	Argentina	EU	Several measures: Nota No. 52/01 SDGTLA, Nota No. 56/01 DI TECN, Nota No. 82/01 DI TECN, Dictamen No. 91/01 DV RTAG, Nota No. 88/01 DI TECN, Instrucción General No. 28/01 SDGLTA. Resolucion General AFIP 1048/2001 and 1100/2001

DS189	Definitive Anti-Dumping Measures on Imports of Ceramic Tiles	Argentina	EU	(Ministry of Production)Resolution 76/02
DS238	Definitive Safeguard Measure on Imports of Preserved Peaches	Argentina	Chile	(Ministry of the Economy) Resolution 91/2003
DS241	Definitive Anti-Dumping Duties on Poultry from Brazil	Argentina	Brazil	n/a
DS122	Anti-Dumping Duties on Angles, Shapes and Sections of Iron or Non-Alloy Steel and H Beams	Thailand	Poland	(Measures remained in place over 7 years, see, Davey, 2010, pp.310)
DS371	Customs and Fiscal Measures on Cigarettes from the Philippines	Thailand	Philippines	n/a
DS396	Taxes on Distilled Spirits	Philippines	EU	Republic Act No. 10351, "An Act Restructuring the Excise Tax on Alcohol and Tobacco Products" and Bureau of Internal Revenue (BIR Revenue Regulation 17-2012.
DS366	Indicative Prices and Restrictions on Ports of Entry	Colombia	Panama	Customs Authority Resolution No. 013518

Cases that were taken out of the sample:

Disputes in which the defendants were exonerated

- (EU) DS135: Asbestos dispute with Canada
- (EU) DS62: Computer Equipment dispute
- (EU) DS69: Tariff rate quota on poultry products from Brazil
- (EU) DS369/400/401: The on-going seal dispute: EU was exonerated on most accounts, and the final implementing measures are being examined as to their WTO-compatibility.
- (USA) DS152: Sections 301-310 of the Trade Act of 1974
- (USA) DS165: Import measures for certain products from the EU
- (USA) DS194: Measures treating export restraints as subsidies
- (USA) DS221: Section 129 (c)(1) of Uruguay trade agreements act

- (USA) DS243: Rules of origin for Textiles and Apparel products
- (USA) DS244: Sunset reviews of AD duties on steel from Japan
- (USA) DS320: Continued suspension of obligations in the EU-Hormones dispute
- (USA) DS392: Certain measures affecting imports of poultry from China
- (USA) DS399: Measures affecting imports of tyre from China
- (Japan) DS44: Measures Affecting Consumer Photographic Film and Paper
- (Korea) DS163: Measures Affecting Government Procurement
- (Canada) DS321: Continued Suspension of Obligations in the EU — Hormones Dispute
- (Brazil) DS22: Measures Affecting Desiccated Coconut
- (India) DS360: Additional and Extra-Additional Duties on Imports from the United States

Horizontal disputes that are not included in the dataset

EU

- DS246: Conditions for the Granting of Tariff Preferences to Developing Countries
- DS315: Selected Customs Matters

USA

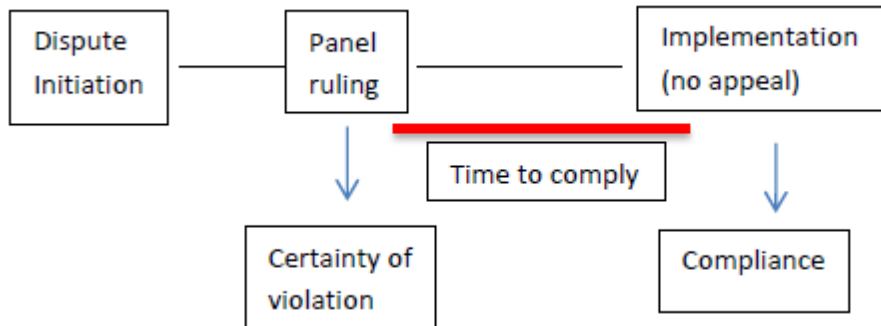
- DS38: The Cuban Liberty and Democratic Solidarity Act
- DS39: Tariff Increases on Products from the European Communities
- DS88/95: Measure Affecting Government Procurement
- DS108: Tax Treatment for “Foreign Sales Corporations”
- DS118: Harbour Maintenance Tax
- DS136/162: Anti-Dumping Act of 1916
- DS186: Section 337 of the Tariff Act of 1930 and Amendments thereto
- DS200: Section 306 of the Trade Act 1974 and Amendments thereto
- DS217: Continued Dumping and Subsidy Offset Act of 2000 (Byrd Amendment)
- DS224: US Patents Code
- DS 294: Laws, Regulations and Methodology for Calculating Dumping Margins (Zeroing)
- DS319: Section 776 of the Tariff Act of 1930
- DS379: Definitive Anti-Dumping and Countervailing Duties on Certain Products from China

Others

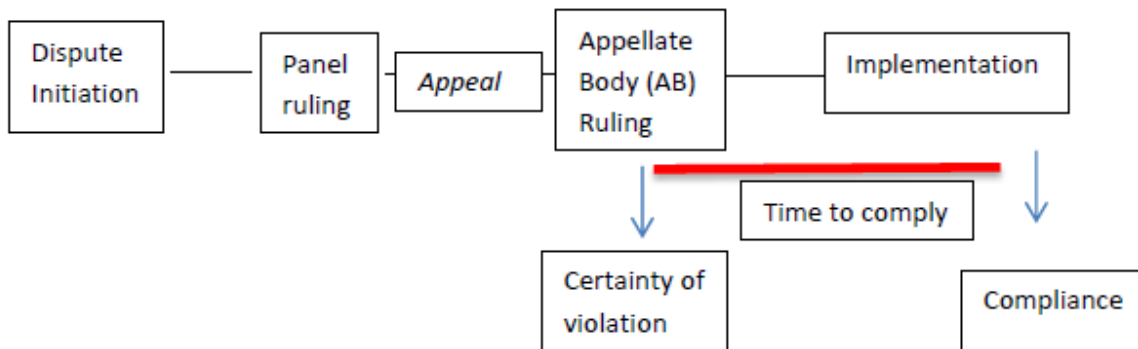
- DS90: India – Quantitative Restrictions on Imports of Agricultural, Textile and Industrial Products
- DS362: China – Measures Affecting the Protection and Enforcement of Intellectual Property Rights

Calculation of compliance from different perspectives

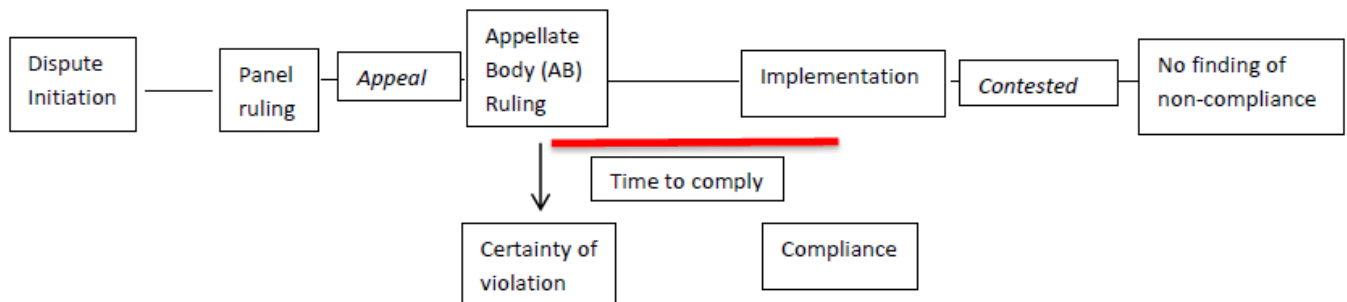
Example 1) The defendant complies after a panel ruling.



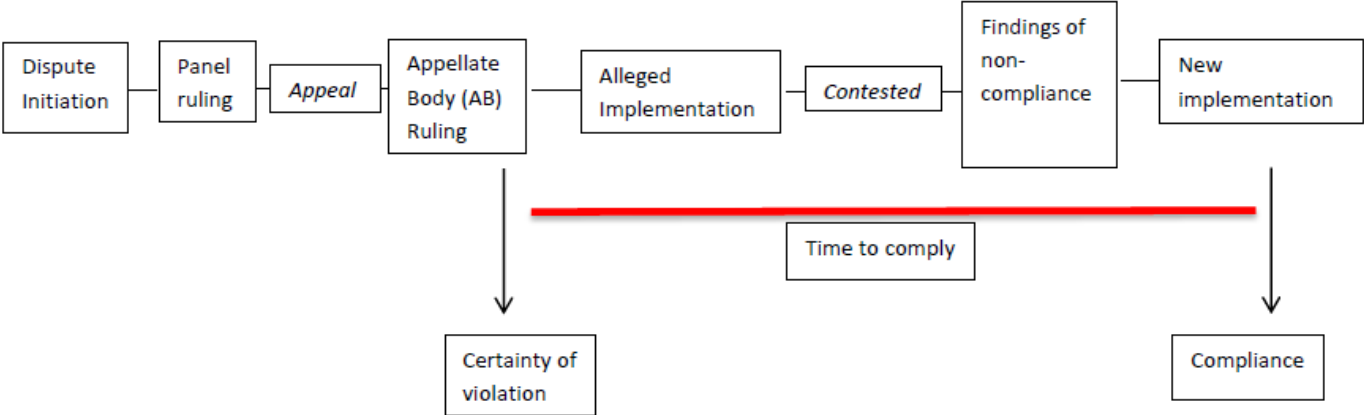
Example 2) The defendant complies after an appellate body ruling.



Example 3) The defendant complies after an appellate body ruling, which is contested and overruled.

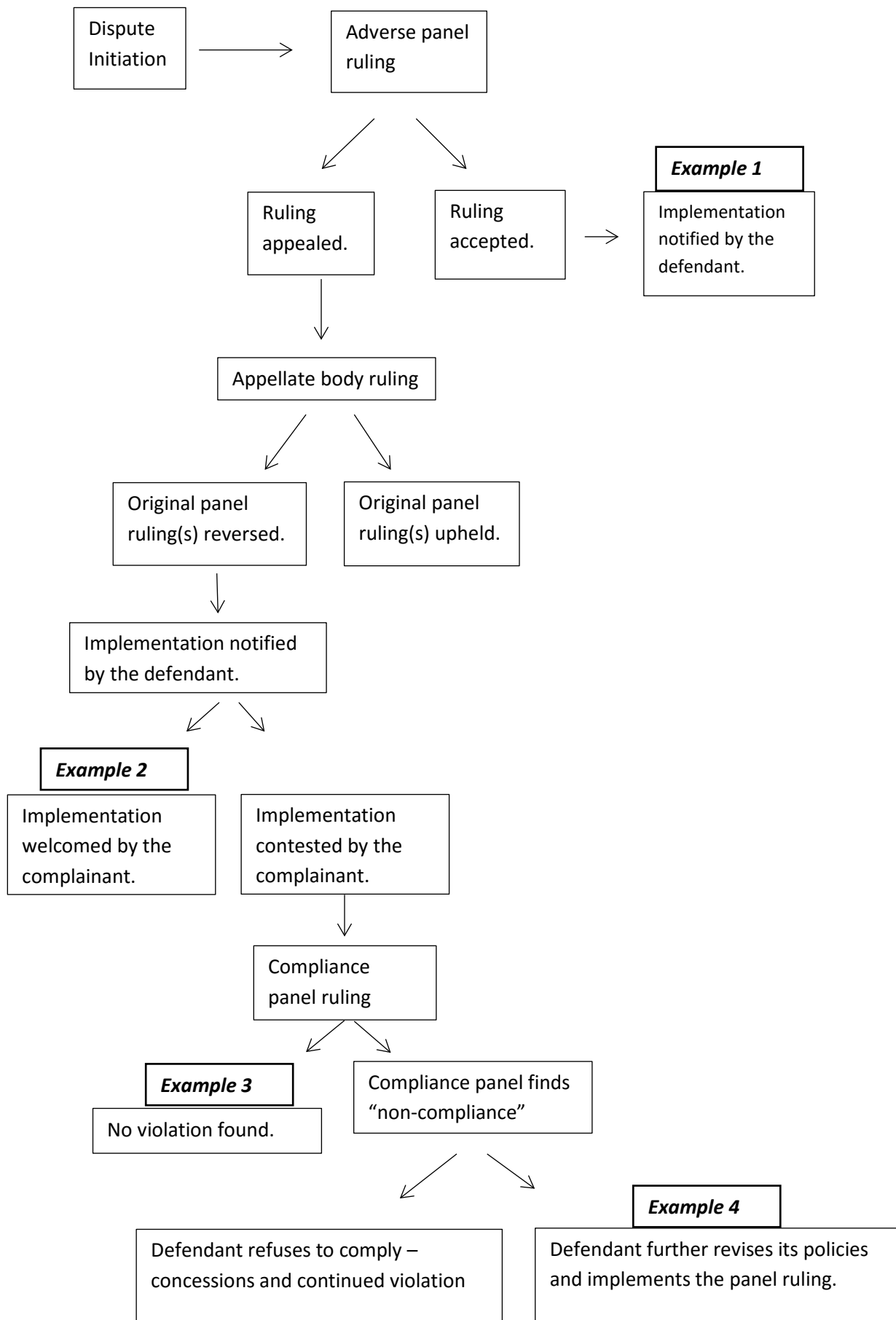


Example 4) The defendant allegedly complies after an appellate body ruling but found to be non-compliant, and introduces a new measure.



(please continue to the next page)

WTO panel stage and possible compliance options employed in the study (different visualization)



Coding of Henisz' Political Constraints dataset for the EU

Indicators' presence and the corresponding coding:

	L1 (Lower house of the legislature)	L2(Upper house of the legislature)	E (Executive)	F (Federal entitites)	J (Judiciary)
Presence	Yes	Yes	Yes	Yes	Yes
Corresponding entity	European Parliament	Council of the European Union	European Union Commission	Member States	European Court of Justice

Alignment of the Executive and the Parliament (aligne_l1)

This indicator is measured by looking at the corresponding European Commissions' approval rate by the parliament and secondly the composition of the Commission from the ruling parties.

1994-1999 (5th European Parliament):

Santer Commission: 417 votes for, 104 against.

Majority coalition: PES – EPP

Commission composition: 9 (PES) 7 (EPP-AD) 2 (ELDR) 2 (Independent)

1999 – 2004 (6th European Parliament):

Prodi Commission: (Increase in the power of the Commission/executive with the Amsterdam Treaty and Nice Treaty, as well as the increase in the number of portfolios).

Prodi Commission: 510 votes for, 51 against.

Majority coalition: PES – EPP/ED

Commission composition: 1999-2003: 10 (PES) 5 (EPP-ED) 2 (ELDR) 1 (Greens) 1 (Independent)

2004: 8 (PES) 9 (EPP-ED) 6 (ELDR) 1 (Greens) 6 (Independent)

2004 – 2009 (7th European Parliament):

Barosso Commission: 478 votes for, 84 votes against.

Majority coalition: PES – EPP

Commission composition: 8 (EPP) 8 (ELDR) 6 (PES) 4 (Independents) 1 (Alliance)

2009 – 2014 (8th European Parliament):

2nd Barosso Commission: 488 vote for, 137 against.

Majority coalition: EPP and S&D

Commission composition: 13 (EPP) 7 (ALDE/ELDR) 7(PES)

Alignment of the Executive and the Council (aligne_I2)

This measure considers the executive and the council to be aligned if the ruling coalition in the legislative is also of the same party of the executive. In the Council of the European Union, there is no ruling coalition in the traditional sense, and the Council in essence furthers the interests of the EU Member States, therefore an alignment between the Commission and the Council is considered nonexistent.

Alignment of the Parliament and the Council (align1_I2)

Similar to the executive EU Commission alignment with the Council, the EU Parliament and the council represent different constituencies. Therefore their “alignment” in the traditional sense of policymaking is not expected.

Legislative Fractionalization

For the Council, this indicator is measured by looking at the number of member states present for the Council and the weighed voting rules. Thus, fractionalization increases with the number of member states whose consent is necessary and the increase in the qualified majority voting.

For the parliament, fractionalization increases with the number of parties in the parliament and the number of parties in a coalition.

Council:

1995-2004: 15 Member states, 64 votes out of 87 are required.

2004: 25 member states, 88 votes out of 124 is required

2004-2006: New, much more complex weighed criteria. 232 votes out of 321, and/or 62%

2009 Onwards: 27 member states, continuing with the 62% rule.

1994-1999 (5th European Parliament)

Total of 9 parties (+ the independents). PES (Social Democrats) and EPP (Conservatives and Christian Democrats) could pass legislation with a coalition, with a total of 355 seats out of 567 (62%).

1999 – 2004 (6th European Parliament)

Total of 8 parties (+ the independents). PES (Social Democrats) and EPP – ED (Conservatives and Christian Democrats) could pass legislation with a coalition, with a total of 413 seats out of 626 (66%).

2004 – 2009 (7th European Parliament)

Total of 8 parties (+ the independents). PES and EPP could pass legislation with a coalition, with a total of 485 seats out of 732 (66%).

10 New member states.

2009 – 2014 (8th European Parliament)

Total of 7 parties (+ the independents). S&D and EPP could pass legislation with a coalition, with a total of 449 seats out of 736 (61%).

2 New member states

Law and Order

This measure assumes a high number of 5.5 for the EU across the board.