"Shooting down trade: Firm-level effects of embargoes"

Uğur Aytun, Julian Hinz, and Cem Özgüzel; November 5, 2024

Online appendix

Table 1: Wooldridge vs baseline estimation

Model:	(1)	(2)		
	Wooldridge	Baseline		
Variables				
Embargo × imposition period	-12.3805***	-20.8678***		
	(0.2567)	(0.3531)		
Diversion × imposition period	0.7886***	0.5585**		
	(0.1513)	(0.2353)		
Circumvention \times imposition period	-0.2085	-0.1861		
	(0.2767)	(0.2668)		
Russia embargo × imposition period	-5.4688***	-4.7554***		
	(0.2917)	(0.3038)		
Fixed-effects				
Observations	9,753,574	4,718,780		
Origin \times product \times time	Yes	Yes		
Embargo x first treatment	Yes	No		
Diversion x first treatment	Yes	No		
Circumvention x first treatment	Yes	No		
Origin \times destination \times product \times month	No	Yes		
$Destination \times product \times time$	Yes	Yes		

^{*}Middle East Technical University & Dumlupınar University. E-Mail: uaytun@metu.edu.tr.
†Corresponding author: Bielefeld University & Kiel Institute for the World Economy. E-Mail: julian.hinz@uni-bielefeld.de.

[‡]Paris School of Economics & Centre d'Economie de la Sorbonne & IZA Labor Institute. E-Mail: cem.ozguzel@univ-paris1.fr.

 Table 2: Effect of Embargo on Different Outcomes

	Poisson TWFE	Poisson TWFE	OLS TWFE	OLS TWFE	OLS Chaisemartin	OLS Chaisemartin	OLS CS	OLS Wooldridge
Panel A: Employment	Continuous	Binary	Continuous	Binary	Continuous	Binary	Binary	Binary
Embargo x period imposition	-0.2517*** (0.0953)	-0.0711 (0.0494)	-0.1857** (0.0727)	-0.0881** (0.0392)	-0.4196*** (0.0234)	-0.1676*** (0.0231)	-0.1563*** (0.0273)	-0.1590*** (0.0363)
Embargo x period lifting	-0.2581 (0.1669)	-0.1196* (0.0712)	-0.1797** (0.0888)	-0.0859* (0.0466)				
Observations	318,011	318,011	282,769	282,769	120,510	120,510	120,510	120,510
Panel B: Average Wage								
Embargo x period imposition	0.0473	0.0247	0.0062	-0.0017	0.0699***	0.0279***	0.0329***	0.0182*** (0.0066)
Embargo x period lifting	(0.0387) 0.0060	(0.0176) -0.0082	(0.0129) -0.0073	(0.0071) -0.0080	(0.0102)	(0.0068)	(0.0087)	(0.0066)
zmourge ir periou minig	(0.0446)	(0.0197)	(0.0164)	(0.0084)				
Observations	318,011	318,011	282,769	282,769	120,510	120,510	120,510	120,510
Panel C: Domestic Sales								
Embargo x period imposition	-0.3138**	-0.0622	-0.4163***	-0.1112**	-1.7988***	-0.6661***	-0.4804***	-0.1890***
Embargo v pariod lifting	(0.1442) -0.2106	(0.0442) -0.0235	(0.1079) -0.2184*	(0.0505) -0.0046	(0.0434)	(0.0684)	(0.1144)	(0.0487)
Embargo x period lifting	(0.1685)	(0.0595)	(0.1276)	(0.0662)				
Observations	412,616	412,616	330,304	330,304	140,099	140,099	140,099	140,099
Panel D: Number of Customer						<u> </u>		<u> </u>
Embargo x period imposition	-0.2608**	-0.1412**	-0.1226**	-0.0598*	-0.46742***	-0.1731***	-0.1605***	-0.0016
	(0.1241)	(0.0592)	(0.0549)	(0.0308)	(0.0244)	(0.0343)	(0.0478)	(0.0301)
Embargo x period lifting	-0.2679	-0.2092**	-0.0791	-0.0506				
Observations	(0.1662) 412,616	(0.0879) 412,616	(0.0643) 330,304	(0.0403) 330,304	140,099	140,099	140,099	140,099
	712,010	712,010	330,304	330,304	140,077	140,077	170,077	140,099
Panel E: Domestic Purchases Embargo x period imposition	-0.5838***	-0.2291***	-0.5632***	-0.2523***	-1.4718***	-0.5414***	-0.5255***	-0.2160***
Embargo x period imposition	(0.1531)	(0.0398)	(0.1105)	(0.0530)	(0.0511)	(0.0708)	(0.0868)	(0.0508)
Embargo x period lifting	-0.5083***	-0.2026***	-0.3893***	-0.1454**	()	(1117, 117)	()	(011117)
	(0.1807)	(0.0630)	(0.1360)	(0.0653)				
Observations	413,433	413,433	333,838	333,838	141,788	141,788	141,788	141,788
Panel F: Number of Suppliers								
Embargo x period imposition	-0.4183***	-0.1338***	-0.2839***	-0.0876**	-0.98966***	-0.3640***	-0.3514***	-0.1020**
Embargo x period lifting	(0.1109) -0.3690***	(0.0370) -0.1328***	(0.0761) -0.1860**	(0.0366) -0.0143	(0.0300)	(0.0408)	(0.0416)	(0.0341)
Elibargo x period intilig	(0.1308)	(0.0477)	(0.0862)	(0.0407)				
Observations	413,433	413,433	333,838	333,838	141,788	141,788	141,788	141,788
Panel G: Domestic Agricultura	l Purchases							
Embargo x period imposition	-0.9662***	-0.3446***	-0.7431***	-0.3132***	-1.0798***	-0.3602**	-0.3712*	-0.1440*
- 1	(0.3495)	(0.1225)	(0.2286)	(0.0900)	(0.1917)	(0.1720)	(0.1999)	(0.0508)
Embargo x period lifting	-0.4049 (0.2472)	-0.2700** (0.1166)	-0.3914*	-0.1632				
Observations	84,272	84,272	(0.2256) 33,581	(0.0997) 33,581	13,589	13,589	13,589	13,589
Panel H: Number of Agricultur	-	0 1,2,2			10,007	10,007	10,007	10,007
Embargo x period imposition	-0.6506***	-0.1759**	-0.1755**	-0.0440	-0.4234***	-0.1412**	-0.1385	0.0286
zmourge ir periou imposition	(0.1545)	(0.0778)	(0.0688)	(0.0416)	(0.0943)	(0.0764)	(0.1476)	(0.0387)
Embargo x period lifting	-0.7386***	-0.1983**	-0.2148***	-0.0649				
01	(0.1855)	(0.0942)	(0.0727)	(0.0499)	10.500	10.500	10.500	10.500
Observations	84,272	84,272	33,581	33,581	13,589	13,589	13,589	13,589
Panel I: Domestic Sales of Pro		0.1000	0.0501	0.0040	0.0050	0.0665	0.0005	0.0065
Embargo x period imposition	-0.5206** (0.2201)	0.1229 (0.1105)	0.0721 (0.0823)	0.0048 (0.0319)	-0.2950 (0.2151)	-0.0665 (0.0595)	0.0305 (0.0701)	0.0065 (0.0527)
Embargo x period lifting	(0.2201) -0.4559*	0.3048*	0.0636	0.0236	(0.2131)	(0.0393)	(0.0/01)	(0.034/)
o porrou mung	(0.2664)	(0.1650)	(0.1102)	(0.0389)				
Observations	163,085	163,085	111,301	111,301	48,106	48,106	48,106	48,106
Panel J: Number of Customers	of Domestic P	roducers						
Embargo x period imposition	-0.2927***	0.0039	-0.0439	-0.0057	-0.2807***	-0.0633**	-0.0283	-0.0282
Embargo x period lifting	(0.0981) -0.2805**	(0.0560) 0.0400	(0.0770) -0.0358	(0.0239) -0.0099	(0.1074)	(0.0301)	(0.0435)	(0.0327)
	(0.1275)	(0.0788)	(0.0954)	(0.0281)				
Observations	163,085	163,085	111,301	111,301	48,106	48,106	48,106	48,106
Panel K: Employment of Produ	icers							
Embargo x period imposition	-0.1928	-0.0146	0.0309	-0.0331	-0.0079	-0.0014	0.0086	-0.0146
	(0.1280)	(0.0838)	(0.0819)	(0.0278)	(0.1011)	(0.0200)	(0.0198)	(0.0296)
Embargo x period lifting	-0.1669	0.0592	0.0294	-0.0789**				
Observations	(0.1309) 61,073	(0.0784) 61,073	(0.0897) 51,775	(0.0319) 51,775	20,190	20,190	20,190	20,190
		01,0/3	51,775	51,//5	20,170	20,170	20,170	20,170
Panel L: Average Wage of Proc Embargo x period imposition	lucers -0.0990*	-0.0402**	-0.0126	-0.0094*	0.0180	0.0032	0.0050	-0.0097
Zimour 60 % period milposition	(0.0514)	(0.0167)	(0.0120	(0.0055)	(0.0282)	(0.0056)	(0.0062)	(0.0056)
Embargo x period lifting	-0.0596	-0.0377**	-0.0122	-0.0098	(Ç,	(· · · · · · · · · · · · · · · · · · ·	····===/
-	(0.0539)	(0.0191)	(0.0185)	(0.0065)				
Observations	61,073	61,073	51,775	51,775	20,190	20,190	20,190	20,190