The impacts of the Eden Agreement on the Anglo-French Trade

A brief study of trade volumes, composition of trade, main commercial ports and prices

Écrire au passé

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Section 1. Introduction

Should have ?

The Anglo-French Commercial Treaty of 1786 marks the end of a customs war between Great Britain and France. The ceaty, also called "Eden Treaty" in reference to the British negotiator of the treaty William Eden, opens the gates to a large increase in trade between the two countries whereas there was a great deal of animosity between them. L. Colley explains that the "British consciousness has been built on hatred of France and French people" (Colley 1993). Even in peace time a commercial rivalry grew during the eighteenth century and prevent commercial relationships until the Eden Treaty (Black 1986). Since 1713, Anglo-French commerce had been only regulated by the Treaty of Utrecht. But the reciprocal freedom of trade guaranteed by this agreement had never seen the light of day because Britain had not ratified the Articles 8 and 9 (Henderson 1957).

The drigins of the treaty ake root in the Treaty of Paris signed in 1783 which ended the American Revolutionary War. The article 18 does indeed provide new trade arrangements between Great-Britain and France which would replace the moribund Commercial relationships. The initiator of this project is the French part, with Charles Gravier Comte de Vergennes (Heckscher 1922). He was a French statesman and diplomat who served as Foreign Minister from 1774 during the reign of Louis XVI, and he shared physiocratic views with other statesman and circles of influence. As this economic theory relies on the assumption that the wealth of nations only comes from agricultural land, Vergennes wanted to facilitate the development of trade with Great Britain which majority produce manufactured goods to allow French economy to focus on agriculture. Moreover, the British economy could offer a potential further income stream for the French agriculture. In England, the idea of a trade agreement met sympathy thanks to the new ideas initiated by Adam Smith (Smith 1776). Industries also wished to increase sales and market shares in France because they feared that trade with America would collapse after the independence of the United States of America.

Initially, the negotiations were time-consuming and lengthy. To accelerate the process, Versailles decided to prohibit numerous English goods: saddlery, hosiery, linens and hardware (Crouzet 2008). From this moment on, serious negotiations started between Gérard de Rayneval, the French commissioner, and William Eden, his British counterpart. According to F. Crouzet, Rayneval "was not

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^{1 « (...)} la conscience nationale britannique s'est forgée dans la haine de la France et des français. »

up to the task"². Indeed, he had the confidence of Vergennes but he had not a great knowledge in the field of economics. Maybe this fact may have play a key role in the final settlement of the treaty, because the British forced compliance with practically all their demands, unlike their French counterparts.

The Eden agreement—signed on September 26th, 1786- came into force on March 10th, 1787. The first articles concern trade facilitations. For example, there are provisions for the abolition of passports and the removal of restrictions on foreign traders (Henderson 1957). The article 6 deals with the new tariffs. It is decomposed in subparagraphs for each category of goods impacted by the agreement. All these categories are detailed in the Table 1 below, in the French and English version. Moreover, rates are defined in various ways in the article relating to the tariffs (Table 1).

Table 1: products impacted by the treaty and related tariffs

Category of good	Catégorie de biens	Custom duty type	Old/Newtariff
Wines of France	Vins de France	Specific tariff	96 pounds, 4 Shillings per ton/
			29 pounds, 8 shillings per ton
Vinegars of France	Vinaigre de France	Specific tariff	67 pounds, 5 Shillings, 3 pence per ton/
			32 pounds, 18 shillings, 10 pence per ton
The brandies of France	Eaux de vie de France	Specific tariff	9 Shillings, 6 pence per gallon /
			7 shillings per gallon
Oil of Olive of France	Huile d'olive de France	most favoured nation clause	most favoured nation clause
Beer	Bière	Ad valorem	??? / 30%
Hardware, cutlery, cabinet	Quincaillerie, tabletterie et tous	Ad valorem	Prohibit / 10%
ware and turnery	les ouvrages gros et menus de		
	fer, acier, cuivre et airain.		
All sort of cottons	Cotons de toute espèce	Ad valorem	Prohibit / 12%
manufactured			
woollens, whether knit or	Lainages tant tricoté que tissés	Ad valorem	Prohibit / 12%
wove			
Cambrics and lawns	Toiles de batistes et linons	Specific tariff	??? / 5 shillings per demi-piece of 7,75 yards
Linens	Toiles de lin et de chanvre	most favoured nation clause	most favoured nation clause
Sadlery	Sellerie	Ad valorem	??? / 15%
Gauzes	Gazes	Ad valorem	??? / 10%
Millinery	Modes	Ad valorem	??? / 12%
Porcelain, earthen-ware	Porcelaine, faïence et poterie	Ad valorem	??? / 12%
and pottery			
Plate-grafs and grafs	Glaces et verrerie	Ad valorem	??? / 12%

Les droits des deux nations devraient-ils être les mêmes ?

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² « Il ne devait pas être à la hauteur de sa tâche »



For the French, the main interest of the treaty concerns the wines, vinegars, oils of live and brandies. As we can see, these products are all farming products which shows the physiocratic influence on the agreement. However, the main problem is the absence of silk products in the treaty whereas the French silk industry was a key player in the French economy. For the British, the main interest of the treaty concerns manufactured goods because a significant proportion of these products was prohibited before the treaty.

What have been the impacts of the treaty on the French economy and trade? Concerning trade, all studies show a rapid increase of the changes. In this study, I try to identify clearly the changes in Anglo-French trade patterns: volume and composition of trade, trend of prices and the effect or ports influence. Concerning the effects on the economy, there is a very rigorous debate on this subject between historians. On the one hand, some economic historians argue that the Treaty was an economic burden for France. According to David Weir, "Trade liberalization in 1786 may have played an important role. It exposed the French industry to the British competition and lowered prices and production" (Weir 1991). P. Verley mentioned an "economic disaster" (Verley 1997). This is also the point of view of the contemporaries of the treaty. Heckscher explains that the Eden agreement was one of the main issue held against the *Ancien Régime* during the French Revolution (Heckscher 1922). On the other hand, some historians recall that a serious commercial and industrial crisis started just before the Treaty (Crouzet 2008). But this debate will not be the substance of this paper. In East, this study is based on foreign trade data and not on output ones.

The paper is organized as follows. Section 2 describes the data in detail and presents the research project, called TOFLIT18, from which the data are drawn. Section 3 develops the methodology adopted for my analysis. Section 4 reports the empirical results from different analytical perspectives. Finally, section 5 suggests some conclusions.

³ « La libéralisation du commerce en 1786 peut fort bien avoir joué un rôle important. Elle exposa l'industrie française à la concurrence britannique et abaissa les prix et la production »

⁴ « Naufrage industriel »

Section 2. Data

1. The TOFLIT 18 project

(This subsection is an extract of an article published in the revue Dialogue (Ponton, Vidal & Daudin. 2016))

The project intends to publish the most comprehensive database possible on French international trade from 1716 to 1828. The compilation of data in digital picture format has been a long process. The archives held by the French tax farms (which played the role of customs) were destroyed by the revolutionary fury. Fortunately, the administrators at the time often left their positions with part of their records, which ended up dispersed among different French and foreign collections of archives: the famous historian Posthumus, for example, compiled a collection from merchants selling old papers in Amsterdam in the 1930s.

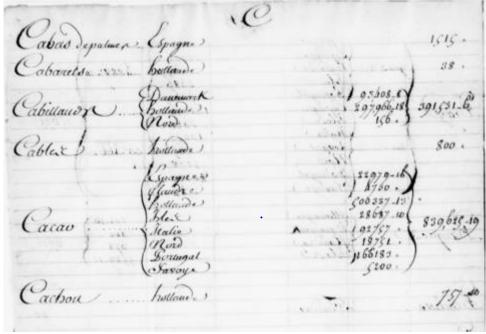


Figure 1: Example of a trade register

Note: General Register of Trade - 1757 - Rouen Municipal Library. TOFLIT18

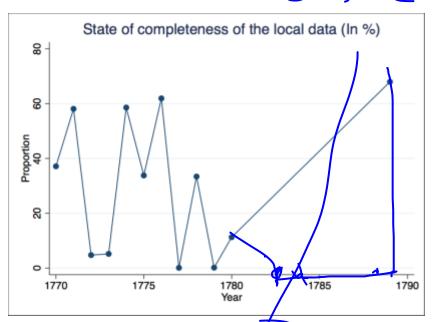
The transcription of registers (generally handwritten, see the Figure 1 above) in the form of tables is much less rewarding work. A large team transcribed over 400,000 trade flows. Mistakes made by copyists at the time, geographic and historical variations in spelling, and human error by the transcribers made for a base that initially contained over 45,000 different goods and over 700 trade partners. The team therefore had to correct spellings and consolidate equivalent names (such as "herring" and "herring sea fish") to harmonise the entries and bring the number of goods and partners down to 16,000 and 165 respectively. The team is now classifying the 16,000 goods in some 20 categories based on the UN's SITC classification (Standard International Trade Classification). This is no mean task since a great deal

of 18th century merchandise is hard to fit into these modern classifications. In fact, no classification can claim to be definitive so it is important to give everyone the possibility to alter the classifications, crosscheck them, and so on.

2. Local and National sources

Two kinds of data are available with the sources: Local and National. They are not redundant because they offer different sets of information and advantages. National data – when available – are complete and compute all imports and/or exports for a given year. Trade data were indeed aggregated by the *Bureau de la Balance de Commerce*. Local data are not complete for a given year (see Figure 2), because they are obtained from different locations, called "direction" (e.g. Bordeaux, Marseille, Nantes, etc.). But we can know the export or import location of goods with this source type. L. Charles and G. Daudin, working on the project, explain that "National statistics are easier to use, but they usually bypass some of the information given in the local data", and "Local statistics are better for geographical analysis" (Charles & Daudin 2015).

Figure 2



Note: Only for Anglo-French traffe

3. My database

To study the impacts of the Eden agreement on Anglo-French trade, I chose to constitute a subset of the whole dataset. I kept in my database French exports and imports with England only, and flows between 1770 and 1789. For National data, I have information for the periods 1770-1780, 1782-1784 and 1787-1789, for both exports and imports. For Local data, the availability of data depends of each direction as explained previously. The details are presented in Table 2 below.

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Table 2: Availability of each direction by year

year	exportsimports	direction	
1770	Exports	Bayonne, Bordeaux, La Rochelle	
	Imports	Bordeaux, La Rochelle, Bayonne	
1771	Exports	Bayonne, Caen, La Rochelle, Nantes, Rouen	
	Imports	Bordeaux, La Rochelle, Nantes, Rennes, Rouen	
1772	Exports Bayonne, La Rochelle, Bayonne		
	Imports	Bayonne, La Rochelle	
1773	Exports	Bayonne, La Rochelle	
	Imports	Bayonne, La Rochelle	
1774	Exports	Bayonne, Bordeaux, Caen, La Rochelle, Nantes, Rouen	
	Imports	Bayonne, Bordeaux, La Rochelle, Nantes, Rennes, Rouen	
1775	Exports	Bordeaux, La Rochelle	
	Imports	Bayonne, Bordeaux, La Rochelle, Nantes	
1776	Exports	Bayonne, Bordeaux, Caen, La Rochelle, Nantes, Rouen	
	Imports	Bayonne, Bordeaux, Caen, La Rochelle, Nantes, Rennes, Rouen	
1777	Imports	Bayonne	
1778	Exports	Bayonne, Bordeaux, La Rochelle, Nantes	
	Imports	Bordeaux, La Rochelle, Rennes	
1779	Imports	La Rochelle	
1780	Imports	Bordeaux, La Rochelle, Rennes	
1789	Exports	Amiens, Bayonne, Bordeaux, Caen, Lille, Lorient, Marseille, Nantes, Narbonne, Passeports,	
		Rouen, Saint-Malo, Valenciennes	
1789	Imports	Bordeaux, Charleville, Lille, Lorient, Marseille, Montpellier, Passeport du roy, Rouen, Saint-Malo	

Local data are much more complete for 1789 because an aggregation of all directions has been made by the *Bureau de la Balance de Commerce* for this given year.

And can be found in the AN

Section 3. Method

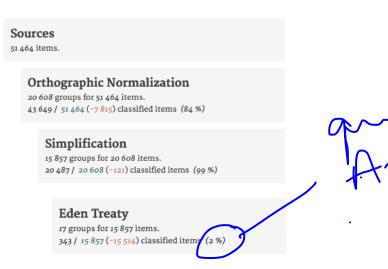


In order to analyze Anglo-French trade, some treatments on the database were necessary. First, I created a new classification based on each category of goods impacted by the Eden agreement (see Table 1). Then, a standardization of the units of measurement was indispensable to compare flows and apply specific tariffs on goods. Finally, I used the "repeated sales" process, a regression applied in other studies on the Project (Pierre Hollegien, Elisa Tirindelli, Quentin Vidal) in order to estimate trade when we don't have data for a specific good and year

1. The Eden classification

My classification is based on the categories of goods set out in the article 6 of the Treaty. In the database, these categories refer to a large number of goods, and it was easier to gather goods into classifications in order to follow it. The classification, called "Eden Treaty", contain 17 groups of 343 items. A summary is proposed just below (Figure 3).

Figure 3: Summary of the "Eden Treaty"



In addition, I create a category named "Prohibited", for a few goods remaining prohibited after the Treaty: e.g. all manufactures of cotton or wool, mixed with silk; a category named "Silk product", because although silk products are not impacted by the Treaty, the silk industry is still an important production for the French economy; and finally all other goods are gathered in a category "Other".

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Extension possible : étendre les catégories

2. Units of measurement
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One of the biggest issues in the data was the standardization of the units of measurement. The quantity unit used in the archives depends on the year, the nature of the good and the region. But we need to work with a same unit for each category of the classification. In order to deal with this problem, I used and modified a script which converts these units in metric units (kilograms, liters, centimeters).

After the execution of the script, there are still problems with some flows without any quantity recorded. To not lose any information, I tried to predict the quantity of this flows thanks to the nature of the good, his value and the year of the exchange. This regression is similar to the "repeated sales" process. created two set of dummies, year (t) and merchandise_simplification (i) (category of good in the "revised simplification classification"), and took an inverse price in order to run the following linear regression (1):

$$\log\left(\frac{Quantity_{z,t}}{Value_{z,t}}\right) = \beta_0 + B_1 year_t + \beta_2 \text{marchandise_simplification }_z$$
 (1)

er y de The resulting regression allows to predict the quantity for flows without this information, thanks to the following equation (2):

 $Quantity = Value \times \left(\frac{Predict(log(\frac{Quantity}{Value}))}{Value} \right)$

I used specifically this method for wines to compare my data with the ones of F. Crouzet as we will see in the next section. But the regression seems to be robust (Figure 4) and all coefficients are significant.

Figure 4: Regression (1) for Wines reg prixinvln i.year i.marchandises_simplification_c i.pays_grouping_c [iweight=value]

	Source	SS	df	MS	Number of obs	=	330189596
-					F(65,330189530)	>	99999.00
	Model	155641014	65	2394477.14	Prob > F	=	0.0000
	 Residual 	148649086	330189530	.450193214	R-squared	=	0.5115
-					Adj R-squared	=	0.5115
١	Total	304290100	330189595	921561747	Root MSE	=	.67096
Total 304290100 330189595 921561747 Root MSE = Use outreg2							

3. "Repeated sales" regression and prices

I also used the "repeated sales" process to analyze changes in prices. Indeed, if I want to know if the treaty had an impact on prices, I cannot only use existing flows and compare the mean of prices over year. Indeed, the Treaty could affect prices but also the composition of traded goods into a category (e.g. "Wines of France"). And if import duties decrease, maybe more low-quality wines – with lower prices - could be exported. This does not in any way mean that prices fall due to the Treaty.

To track the impact of the Treaty on prices, I needed to predict the evolution of the price for each good for a given group of goods (e.g. Wine of Bordeaux, Wine of Nantes, ordinary Wine: for "Wine of France"), even if a specific good is not sold for a particular year. As said before, I used once again the "repeated sales" process to predict these "artificial" flows. I needed both to predict their prices (1) and their quantity (3). Quantity is essential for weighting each price for a given good.

$$\log(Value_{z,t}) = \beta_0 + B_1 year_t + \beta_2 \text{marchandise_simplification }_z$$
 (3)

Section 4. Resultsr tre vite du court terme

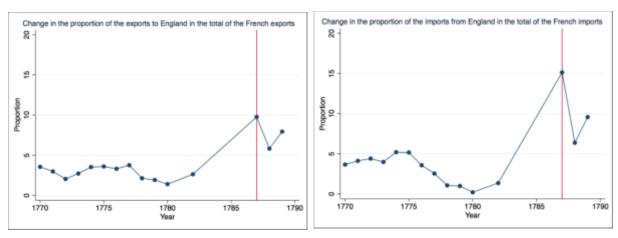
1. descriptive results

The principal consequence of the Treaty is a rapid increase of Anglo-French trade. For France, exports from England amounted to nearly 10% of the total exports in 1787, against figures of less than 5% before the Treaty (Figure 5). For the imports, changes are even more pronounced. Imports from England has climbed to 15% of total French imports in 1787, while at the height of the American Revolutionary War in 1780, imports from England were nearly non-existent (Figure 6).



Figure 5

Figure 6



In value, both exports and imports increased with the Treaty, but imports grew more quickly than exports. I chose to compare my results with the ones of M. Morineau (Morineau 1987). We can see below that the findings are similar (Table 3).

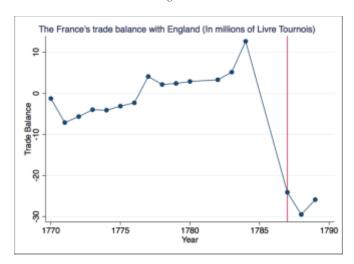
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Table 3: Changes in exports and imports for the Anglo-French trade (in millions of Livres Tournois))

Year	Exports/Imports (M. Morineau)	Exports/Imports (TOFLIT18)
1784	20.0 / 13.2	22.97 / 10.30
1787	34.2 / 58.2	34.20 / 58.27
1788	31.2 / 63.7	31.15 / 60.62
1789	35.1 / 60.9	35.05 / 60.91

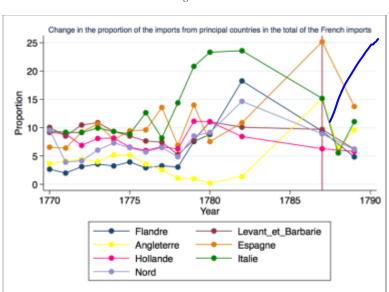
Imports grew faster than exports, leading to a deterioration in the trade balance as a direct consequence, while the balance of trade position was positive before 1887 (Figure 7). The figure declines from a trade surplus of +5.16 millions of *Livres Tournois* in 1783 after the end of the war, to a trade deficit of -29.47 millions of *Livres Tournois* in 1788, one year after the implementation of the Eden agreement.

Figure 7



England became a major trade partner for France, while Anglo-French trade was very low just a few years earlier. As we can see below (Figure 8), England became in 1787 the third trade partner of France in terms of imports, placed just behind Italy and Spain. In term of exports, England became the fourth trade partner of France in 1787, behind North, Italy and Spain.

Figure 8



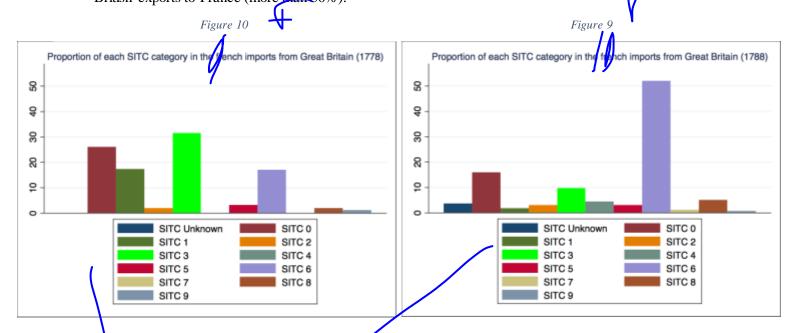
Note: French colonies are not taken into account

2. Trade composition

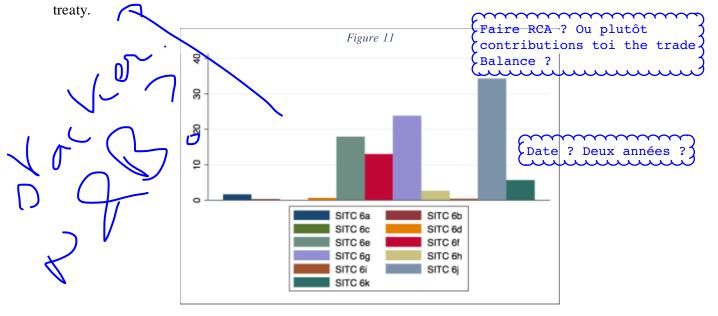
Trade increased with the Treaty but another effect was a shift on the composition of trade. As we see in the literature review, Vergennes wanted to facilitate the development of trade with Great Britain in order to export farm products and imports manufactured ones, in the pure tradition of the physiocracy. Figures seem to tell a same story. To study the composition of trade, I used the Standard International Trade

Classification (SITC) in his third revision, a classification of goods made by the United Nations to classify the exports and imports of a country to enable comparing different countries and years.

For the exports of England to France, the export structure was more diversified in 1778 than in 1788. Indeed, England exported predominantly food and live animals (SITC 0), beverages and tobacco (SITC 1), mineral fuels, lubricants and related materials (SITC 3), and manufactured goods (SITC 6) in 1778 (Figure 9). But in 1788 (Figure 10), manufactured goods (SITC 6) accounted for a large part of the British exports to France (more than 50%).



For a better understanding of this new export structure, I looked into SITC 6 products to know precisely the products exported to France by England. The results are presented in the figure below (Figure 11). Most of the manufactured goods exported are metal products (34%, SITC 6j), cotton threads and fabrics (24%, SITC 6g), wool threads and fabrics (18%, SITC 6e) and silk threads and fabrics (13%, SITC 6f). This result was to be expected because metal products (Hardware, cutlery, cabinet ware, turnery), cotton products (all sort of cottons manufactured) and woollens (whether knit or wove) were impacted by the



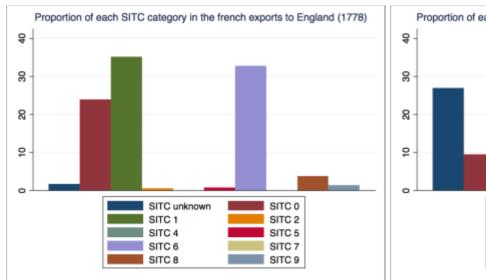
Est-c que le vin et l'eau de vie sont des biens agricoles comme les autres ? Et la bière ?

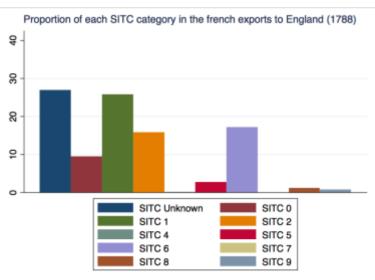
For the French exports, research findings are far less clear because an important share of goods are not classified in the SITC (more than 25%). But with the available information, we can see that between 1778 and 1788 manufactured products decrease in favour of raw materials (see Figure 12 & Figure 13).

A large part of French exports to England are faith products as expected.

Figure 13





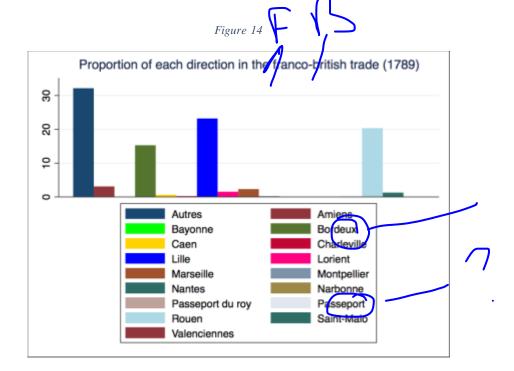


The different compositions of trade between exports and imports can explain the various trade balances for each product. For example, the French trade balance of brandies had a surplus of +10.46 millions of *Livres Tournois* in 1787 whereas the trade balance of cotton products had a deficit of -12.17 millions of *Livres Tournois* for the same year.

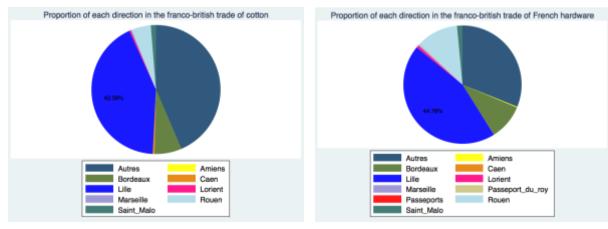
3. Directions

The Eden agreement has also impacted the importance of each direction in the Anglo-French trade. As I explained in the section 2, Local data are in parts fragmentary. For 1789 Local data are almost complete but before the Treaty, we have generally less than 40% of trade in value. This prevents us from tracking each direction before and after the treaty (with the exception of Bordeaux and Bayonne). Between 1778 and 1789, the share of the Anglo-French trade going through Bordeaux has decreased from 29.01% to 15.27% (see Figure 14).

In 1789, two years after the implementation of the treaty, Lille is the first direction in the Anglo-French trade in value among the available directions, thanks to the trade of cotton products and fardware (see Figure 15 and Figure 16). Indeed, respectively 42.39% and 44.78% of these exchanges go through the port of Lille, and these two products are the most affected by the treaty as we see previously.



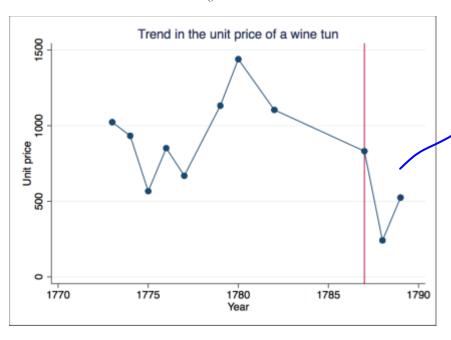




4. Prices

Finally, I tried to explore the issue of prices. I chose to study the changes in the price of wine because data are relatively complete and numerous. I used the "repeated sales" process mentioned in the Section 3.3 to make sure that I do not confuse changes in prices with changes in the composition of trade (e.g. more or less low-quality wines sold). My results are presented in the figure below (Figure 17).

Figure 17

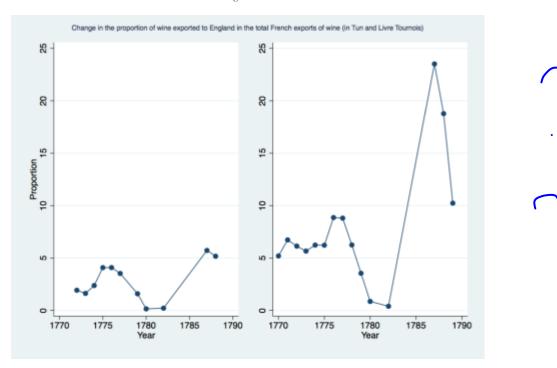


As a first observation, the price level may surprise readers as being really expensive. Indeed, E. Labrousse indicates that the price of a hectolitre of wine sold in France varied between 8.15 and 13.41 *Livres Tournois* (Labrousse 1933). But here the price of a tun of wine is, on average, 828 Livres Tournois, i.e. 90 *Livres Tournois* per hectolitre. This is 10 times more expensive that the price of wine sold in France! F. Crouzet explains that before the treaty, import duties were prohibitive and France exported only wines from great vintage (*Grand cru*) to England (Crouzet 2008). M. Braure postulates the same hypothesis: "More and more expensive wines are exported. (...) 800 to 1200 *Livres Tournois*, even 1500 in the second half of the century" (Braure 1953). We can verify this assertion with the data (see Figure 18). In 1787, 5.8% of wines are exported to England in terms of quantity (tuns), against 23.5% in terms of value (Livres Tournois). F. Crouzet finds respectively 9.4% and 31.5%. In another book (Crouzet 1968) he finds that the port of Bordeaux exported 7% of his wine to the British Islands for this year in terms of quantity. As Bordeaux represents 94.26% of the French exports of wine (in 1789), we can compare this figure with our results.

Now, how we can interpret the decrease of prices? I think that the decrease of tariffs allowed French sellers to export wines with a lowest quality than before, because duties became less prohibitive. In the database, wines products appear by location (Nantes, Bourgogne, Bordeaux, etc.) and not by quality (*Grand Cru* or ordinary wine). If the proportion of wines from great vintage decline, the result is a decrease of the unit price.

⁵ « Ce sont des vins de plus en plus chers qu'on expédie. (...) On atteint 800 à 1.200 livres, voire 1.500 dans la seconde moitié du siècle. »

Figure 18



Note: In tun (left) and Livre Tournois (right)

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