## US agricultural trade Econ 235

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#### International trade in agriculture

- International trade has a very significant impact on US agriculture.
- For many commodities, prices are determined on the international market.
- International agreements have imposed discipline on support to agriculture production and have shaped farm policies in the United States and other countries.
- For firms, entering the international market is costly and risky but can be very profitable.

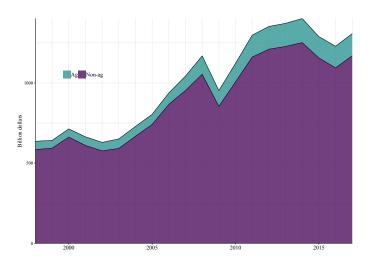
#### To read

- For a description of US agricultural trade: U.S. Agricultural Trade: Trends, Composition, Direction, and Policy.
- For a brief description of the WTO agreement on agriculture:
   Summary of WTO agreement on agriculture.
- If you want access data about US agricultural trade, look at the USDA Foreign Agricultural Service website.

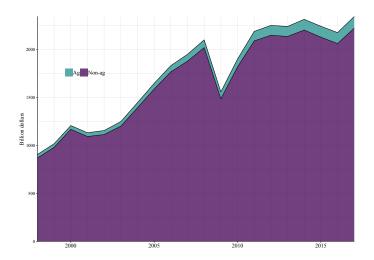
#### **Definitions**

- **Import**: goods or services that are brought into a country from another country.
- Export: goods or services that are sent from a country to another country.
- **Trade balance**: the difference between the monetary value of exports and imports. Also called net exports or commercial balance.

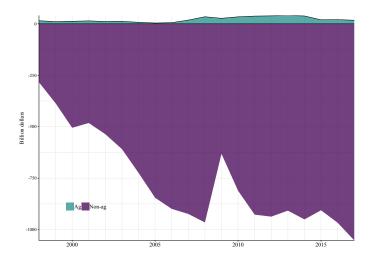
## **US** exports



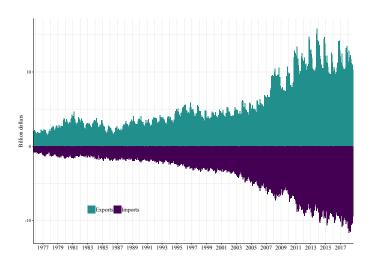
#### **US** imports



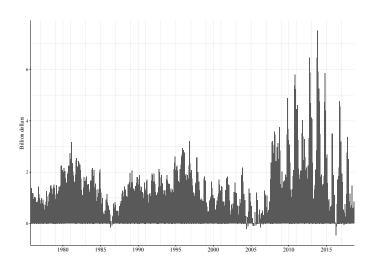
#### US trade balance



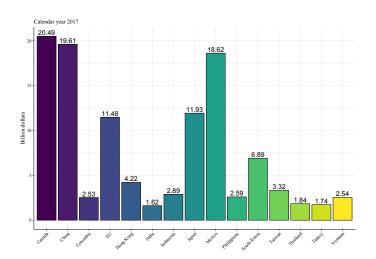
### Monthly US agricultural trade volumes



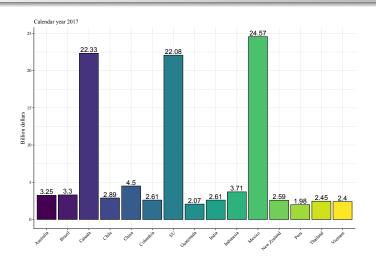
## Monthly US agricultural trade balance



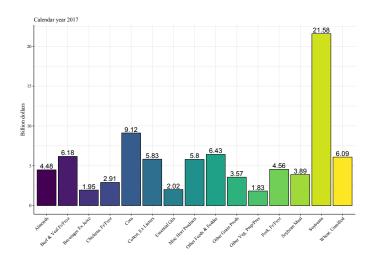
#### Top 15 importers of US agricultural products



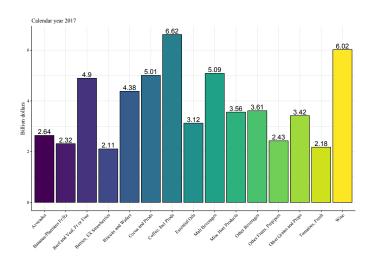
# Top 15 exporters of agricultural products to the United States



#### Top 15 US agricultural exports by commodities



#### Top 15 US agricultural imports by commodities



## Why trade? Comparative vs. absolute advantage

- Why do firms sell products in other countries or why to they buy products in other countries?
  - Profits!
- It is common in economics to refer as countries trading commodities while in fact firms are the one trading. To simplify the discussion, suppose that countries trade between each other.
- One common explanation for trade is the existence of comparative advantages.
- In the context of international trade, comparative advantage is the concept that a country is relatively more efficient at producing a good compared to another country.
- The concept of *absolute advantage* is that a country is more efficient at producing all goods than another countries.

#### Comparative vs. absolute advantage

- Suppose that there is two countries, two goods and one factor of production:
  - Country A and country B;
  - ► Lettuce and spinach;
  - ▶ The only factor of production is labor and each country has a quantity of labor equal to 1.
- For country A:
  - If it invests all its labor in the production of spinach, it can produce 5 units of spinach;
  - If it invests all its labor in the production of lettuce, it can produce 4 units of lettuce;
  - ▶ It can allocate a fraction of its labor to spinach and lettuce. However, for each unit of lettuce that it produces, it must sacrifice  $\frac{5}{4}$  unit of spinach.
  - $ightharpoonup rac{5}{4}$  is the marginal rate of transformation (MRT) between spinach and lettuce in country A.

#### Comparative advantage vs. absolute advantage

- For country B:
  - ▶ If it invests all its labor in the production of spinach, it can produce 2 units of spinach;
  - If it invests all its labor in the production of lettuce, it can produce 4 units of lettuce:
  - It can allocate a fraction of it labor to spinach and lettuce. However, for each unit of lettuce that it produces, it must sacrifice  $\frac{2}{4} = \frac{1}{2}$  unit of spinach.
  - ▶  $\frac{1}{2}$  is the marginal rate of transformation (MRT) between spinach and lettuce in country B.

#### Absolute advantage

- Country A has an absolute advantage because it is at least as efficient at producing lettuce and spinach than country B:
  - ▶ With one unit of labor, country A can produce 5 units of spinach while country B can produce only 2 units of spinach.
  - ▶ With one unit of labor, country A can produce the same quantity of lettuce (4 units) as country B.

#### Comparative advantage

- Country A has a comparative advantage in the production of spinach:
  - For each unit of spinach that it produces, country A must sacrifice  $\frac{4}{5}$  unit of lettuce.
  - ► For each unit of spinach that it produces, country B must sacrifice 2 units of lettuce.
- Country B has a comparative advantage in the production of lettuce:
  - ▶ For each unit of lettuce that it produces, country A must sacrifice  $\frac{5}{4}$  unit of spinach.
  - For each unit of lettuce that it produces, country B must sacrifice  $\frac{1}{2}$  unit of spinach.
- You can think of the relative quantities as prices.

#### Comparative advantage and trade

- Comparative advantages explain trade.
- Absolute advantage does not explain trade.
- Suppose that country A is in *autarky* (no trade) and that it allocates half of its labor to spinach and half of its labor to lettuce:
  - ▶ Country A produces 2.5 units of spinach and 2 units of lettuce.
- Suppose that country B is in autarky (no trade) and that it allocates half of its labor to spinach and half of its labor to lettuce:
  - ▶ Country B produces 1 units of spinach and 2 units of lettuce.

#### Comparative advantage and trade

- Suppose instead that the two countries enter into trade, specialize in the product where they have a comparative advantage and then split the total production.
- Country A has a comparative advantage in the production of spinach and thus specializes in the production of spinach; it produces 5 units of spinach.
- Country B has a comparative advantage in the production of lettuce and thus specializes in the production of spinach; it produces 4 units of lettuce.
- Then, one possible allocation of the two goods is:
  - ▶ Country A receives 3 units of spinach and 2 units of lettuce.
  - Country B receives 2 units of spinach and 2 units of lettuce.
- Both countries are better off.

#### Comparative advantage and trade

- Thus, by allowing free trade, countries can specialize and increase total production.
- Both countries improve their situation.
- In practice, the allocation of goods across countries is done through equilibrium prices. We will not cover this type of solution here.
- Note that comparative advantages can be seasonal (e.g. fresh fruits and vegetables), which gives rise to two-way trade.

#### Free trade in practice

- In practice, free trade almost never occurs even though, as the previous example shows, free trade is welfare improving.
- This is particularly true in agriculture, a sector for which countries tend to be more protective.
- Is agriculture a special case?

#### Motives for trade barriers

- Many motives to limit trade:
  - Tax revenues.
  - Food security assuring sufficient production of food domestically.
  - Protect domestic firms (and workers), pressure from domestic interest groups (rent seeking).
  - Sanitary and phytosanitary (animal and plant diseases, pests and diseases) concerns.
  - Retaliation in trade disputes.
  - On Prevent dumping.
  - Countervailing duties (taxing imports of a good which production is subsidized in another country).
- From an economic point of view, policies that limit trade are bad.
   Trade restrictions usually involve a transfer to a group at the expense of another.

#### Efforts toward freeing trade I

- In the last few decades, many countries have entered into negotiations with the objective of opening their borders.
- Trade agreements define rules of trade.
- Multilateral trade agreements: Trade agreements between many countries who agree to the terms under which trade takes place.
  - Technically any agreement between more than two countries is a multilateral trade agreement.
- Bilateral trade agreements: Trade agreements between country pairs.
  - ▶ An example is the US-Korea free trade agreement.
- Regional trade agreements: Trade agreements between two or more countries usually within a region.
  - NAFTA is an example of a regional trade agreement.
- The United States is a member of the WTO and has free trade agreements with 20 countries.

## World Trade Organization (WTO)

- The WTO is the only global trade organization that deals with the rules of trade and resolves trade disputes.
- It is an intergovernmental organization as its functionning is supported by many governments.
- The WTO is an assemble of agreements that were developed from the Generalized Agreement on Tariffs and Trade (GATT).

## Generalized Agreement on Tariffs and Trade (GATT)

- GATT was ratified by many developed countries in 1948 and remained effective until 1994. The agreement provided rules for international trade.
- GATT covers the trade of goods.
- The two basic principles of the GATT are:
  - Most-Favored-Nation: Countries cannot discriminate between their trading partners. Exemptions for regional trade agreements and preferential treatments of developing countries.
  - National treatment: Imported and locally-produced goods should be treated equally.

#### Creation of the WTO

- Many attempts, through several rounds of negotiations, were made to update and expand the GATT agreement.
- The Uruguay Round of negotiations concluded in 1994 with the creation of the World Trade Organization (WTO).
  - ▶ The agreement became effective in 1995;
  - GATT became one of the agreement under the WTO, covering the trade of goods;
  - ▶ GATS is the General Agreement on Trade and Services;
  - ► TRIPS is the agreement on Trade-Related Aspects of Intellectual Property Rights.
  - ▶ Dispute settlement mechanism.

#### WTO and agriculture

- In the Uruguay Round of negotiations, agriculture was a major road block:
  - Difficulty in agreeing on discipline regarding subsidies to agriculture;
  - Difficulty in agreeing on the reduction of trade barriers.
  - ► This contrasts with manufacturing products that receive little protection and are generally openly traded.
- In the WTO Agreement on Agriculture (AoA), countries agreed to improve market access and reduce trade-distorting domestic support.

#### WTO and support to agriculture I

- The AoA called for the reduction of support to agriculture that distort production:
  - Over-production lowers international prices for agricultural commodities, most negatively affecting developing countries that cannot afford to subsidize their agriculture.
  - ▶ Developed (rich) countries are able to support their agriculture.
  - ▶ The WTO meant the end of agricultural support that is tied to the price.
- Under AoA, support to agriculture is classified into three boxes:
  - **1 Amber box**: Policies that directly affect production (e.g. price support). Countries are allowed a maximum of 5% (10% for developing countries) of the Aggregate Measure of Support (AMS) to enter the Amber box (*de minimis* over total agricultural production).
  - ② Blue box: Program payments that are based on fixed acreage and yield, fixed number of head of livestock or if they are designed on 85% or less of base production. These policies are seen as acceptable but it is difficult to tell whether a subsidy program fits into this category and whether programs in the blue box affect production.

### WTO and support to agriculture II

- Green box: Policies that have little or no effect on production (research programs, domestic food aid, environmental programs, certain crop insurance and income-support programs).
- The US reformulated its support to agriculture in response to the WTO agreement.
  - ▶ In the 1996 FAIR Act (farm bill), market price support and deficiency payments were replaced by fixed payments (production flexibility contracts). These payments were calculated by multiplying a farm's payment yield, 85% of farm's contract acreage and the payment rate.
  - Still today, farm support is based on 85% of a farm's acreage. For example, for Price Loss Coverage (PLC) and Agricultural Risk Coverage (ARC), payments acres are equal to 85 percent the base acres for a covered commodity.

#### WTO and export subsidies

- Cap and reduction on the value and volume of export subsidies.
- Export subsidies used to be an important way to support agriculture.
- Export subsidies have essentially disappeared now.

#### WTO and sensitive products

- The WTO allows to protect some agricultural products from international competition.
- For sensitive products, tariffs do not have to be reduced as much as other products but a minimum access through a TRQ (see below) must be provided.
- The United States has identified some import sensitive products: sugar, dairy, beef, citrus, winter fruits, and vegetables.
- For many countries, import sensitive products are staple goods such as rice.

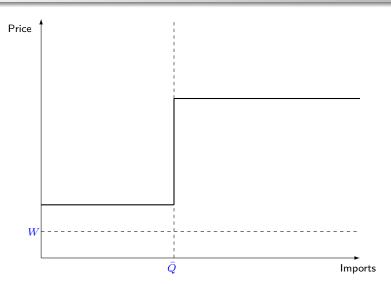
#### WTO and market access

- Countries agreed on replacing their non-tariff import barriers (e.g. import quotas) by bound tariff and to reduce the level of those tariffs.
- The process of converting non-tariff trade barriers into tariff is call *tariffication*.
- Import quotas have been converted into Tariff-rate quotas (TRQs).
- A TRQ has three parts:
  - A low tariff rate  $(t_0)$  that applies to units imported below the quota quantity.
  - $\bigcirc$  A quota  $(\overline{Q})$ .
  - $oldsymbol{3}$  A high tariff rate  $(t_1)$  that applies to units imported above the quota quantity.
- ullet Often, the high tariff rate  $t_1$  is so high that a TRQ acts as a quota. It is in many cases in the order of several hundred percent.

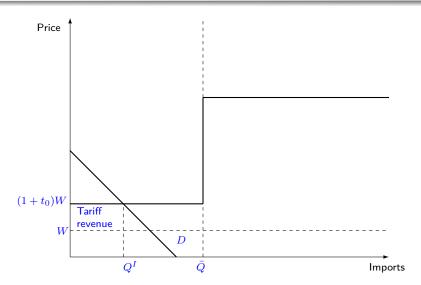
#### Tariff-rate quotas

- The following figure shows an example of how a TRQ works.
- ullet Suppose that a country is small such that the import is fixed and given by W.
- The price to the importers is given by  $W^d=(1+t)W$ , where t is the tariff that applies.
- Depending on the import demand  $D^I$ , the tariff that applies is either  $t_0$  or  $t_1$ .
- If the quantity imported  $Q^I$  is greater than the quota  $\bar{Q}$ , then the owners of the import quota earn a rent (i.e. profit).

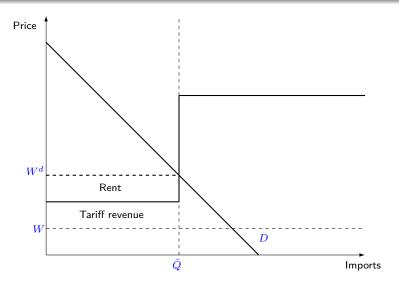
## Tariff-rate quota (with import tariff in percentage)



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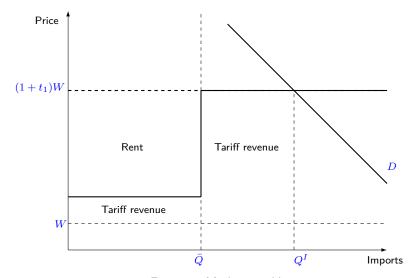


Figure 1: Market equilibrium

#### Dispute settlement I

- The WTO is not an enforcement organization. It cannot tell countries what to do and it cannot penalize countries for not meeting their obligations.
- For the WTO to work, it requires good behavior by the member countries.
- Disputes occur and the WTO provides for a dispute resolution system.
- Countries must first try to resolve a dispute by themselves.
- If countries cannot solve their disgreements by themselves, a dispute resolution panel made of trade experts is formed to hear the arguments of all parties.
- The panel makes a decision and if a party is found not to meet its obligations then it is expected to take action to bring its policies into compliance.
- For example, Canada and Mexico have challenged US Country Of Origin Labeling (COOL) policy as it applies to livestock claiming that it violates the national treatment clause.

#### Dispute settlement II

- Canada and Mexico have repeatedly won but the U.S. did not bring its policies into compliance.
- ▶ The arbitrator at the WTO authorized in December 2015 Canada and Mexico to retaliate by over \$1 billion.
- The same month, the US Congress repealed COOL for red meat and avoided retaliation.

## Anti-dumping duties and countervailing duties I

- Dispute settlement at the WTO is a very long process.
- In some cases, a country will prefer to take immediate actions against a country failing to meet its obligation under the WTO agreement.
  - ► A country will do this to protect domestic industries that might be impacted the action of other countries.
- The most-favored-nation treatment generally applies but the WTO
  agreement allows for the imposition of tariffs on products coming from
  a country in certain circumstances.
- Antidumping and countervailing duties can be imposed if US a business petitions the US International Trade Commission about dumping or foreign subsidies.

## Anti-dumping duties and countervailing duties II

- **Antidumping duty**: A country can impose import duties on a product from a country that is sold at an unfairly low price.
  - ▶ The Department of Commerce conducts an investigation where it compares the price received for exporting their product to the price they receive for sale of their product into their home country.
  - ▶ If the export price is lower than the domestic price, then the Department of Commerce concludes that there is dumping and recommends duties to cover the difference in the two prices.
  - Duties are imposed by the US Customs and Border Protection if the U.S. International Trade Commission finds that there is material injury to firms in the United States.
  - ► There is no point in imposing duties without injury as consumers benefit from purchasing goods at a lower price.

# Anti-dumping duties and countervailing duties III

- Countervailing duty: A country can impose import duties on a product from a country that subsidizes the production or sale of that product:
  - ► The subsidy must be against the spirit of the WTO agreement and more than *de minimis*.
  - ▶ The Department of Commerce conducts an investigation to determine whether a foreign government subsidizes a product that is imported in the United States and make a recommendation about whether to impose duties to cover the value of the subsidy.
  - Duties are imposed by US Customs and Border Protection if the International Trade Commission finds that there is material injury to firms in the United States.
  - ▶ Again, there is no point in imposing duties without injury as consumers benefit from purchasing goods at a lower price.

#### Safeguard measures

- The other case where a country can impose import duties on a good coming from a specific country is the case of safeguard measures.
- Safeguard measures are meant to be temporary to protect a domestic industry against surge in imports that can possibility cause serious injury to the domestic industry.
  - ► For example, suppose that Mexico gets a huge crop of tomatoes and starts shipping very large quantities of tomatoes to the United States.
  - ▶ This surge in imports causes the price of US tomatoes to drop.
  - Because the US tomatoe price is low, some tomatoe farmers may go out of business.
  - Under the safeguard measure, an import duty on Mexican tomatoes could be imposed to limit imports of Mexican tomatoes to temporarily protect the US tomatoe industry.
  - ▶ Note that this is, however, at the cost of consumers who would benefit from less expensive tomatoes.

## Sanitary and Phytosanitary agreement

- The Sanitary and Phytosanitary (SPS) agreement prevents countries from adopting and enforcing arbitrary technical measures that limit trade.
- Countries have the right to impose sanitary and phytosanitary measures necessary for the protection of human, animal or plant life or health.
- However, those measures cannot discriminate between countries.
- A country cannot impose a standard on imports that is stricter than what it imposes on domestic products.
- Sanitary and phytosanitary measures must have a scientific basis.
- One controversy is the use of the precautionary principle by some countries (see Cartagena Protocol on biosafety).

## Sanitary and Phytosanitary agreement

- One of the most famous trade dispute is regarding the use of hormones in cattle farming.
- In 1988, the EU banned the imports of meat from Canada and the United States because of the use of hormones in cattle farming in those countries.
- A long dispute began at the WTO in 1996 regarding the legality of that ban.
- Canada and the United States won and then imposed retaliatory measures against the EU.
- An agreement was reached in 2012.

# Doha Development Round of negotiations

- WTO members began negotiation in the Doha Development Round in 2001.
- Negotiations are still ongoing, but progress is very slow.
- The objectives of the Doha Round were to further liberalize trade with a particular emphasis on measures that favor the development of least-developed nations.
- Agriculture has been the major road block in the negotiations.

#### Regional trade agreements

- Countries can enter into agreements to further facilitate trade. See regional trade agreements on the WTO website.
- These agreements are also referred to as preferential trade agreements.
- For example, the United States, Canada and Mexico are members of the North American Free Trade Agreement (NAFTA), which might be renamed the USMCA.
- The US is part of many other regional trade agreements. See the WTO database.
- President Trump dropped out of the Trans-Pacific Partnership (TPP) but seems to have some regrets about it.

# North American Free Trade Agreement (NAFTA)

- The United States, Canada and Mexico recently agreed to a new trade agreement but it is not signed yet (as of November 2018).
- The United States and Canada agreed to Canada-U.S. Free Trade Agreement (CUSTA) in 1989.
- NAFTA superseded the CUSTA with the addition of Mexico in 1994.
- Under NAFTA, trade for most goods between the three countries can move free of tariffs.
- Labor mobility is restricted under NAFTA.
- The consensus amongst economists is that NAFTA has been good for the economies of the three countries.
- You can find the text of the agreement at https://www.nafta-sec-alena.org/

## NAFTA and agriculture I

- Agriculture is a special case and NAFTA includes three separate agreements between country pairs.
- Agricultural trade volumes between the United States and Canada and between the United States and Mexico are large. Agricultural trade volumes are small between Mexico and Canada.
  - ► Here is a short paper I wrote about NAFTA and trade volumes.
  - Note that trade data do not allow to observe all lowa exports to Canada or Mexico because they transit through other states.
  - ► For example, a unit-train full of corn from lowa will transit through Texas and the export will be recorded out of Texas.
- The agricultural agreements protect certain sectors and these protections are specifically written into the agreements:
  - Canada protects goods under supply management products (dairy, eggs and poultry);
  - ► The agricultural agreement between the United States and Mexico says a lot about sugar. Sugar has been a subject of contention between the two countries until recently.

## NAFTA and agriculture II

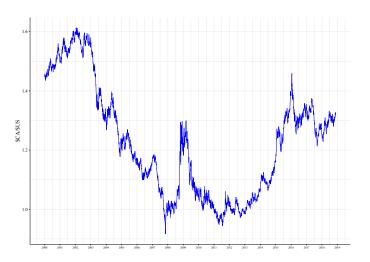
- The agreement contributed to uniformized sanitary and phytosanitary measures in the three countries.
  - ▶ This eliminates many technical trade barriers and facilitate the flow of goods between the countries.
  - ► For example, meat inspection done in Canada meets USDA standard and thus can be exported in the United States without further inspection.
  - ► The agreement also facilitates the movement of animals between the three countries

# New NAFTA (USMCA)

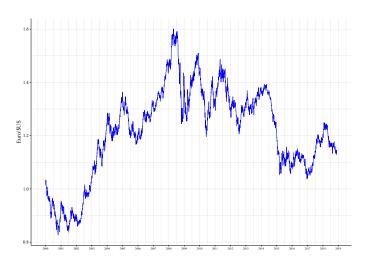
- Apparently the recently signed NAFTA deal will be called USMCA.
- Overall, the new agreement is very similar to the old agreement, although modernized.
- Regarding agriculture, the most important changes are:
  - ► The United States gained additional access (roughly 3.6%) to the Canadian dairy market.
    - Note that the United States would have gained a similar access under the TPP.
  - ► The United States also gained additional access to the Canadian poultry and egg markets.
  - ► The United States conceded market access to Canada for dairy, peanut products, sugar and sugar products.
- Little seems to have changed in the agreement between the United States and Mexico.

#### Exchange rate

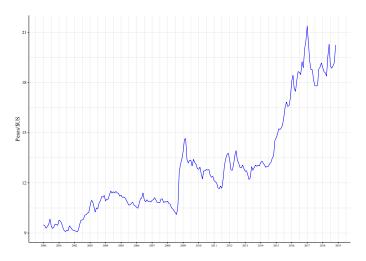
- The exchange rate matters when trading commodities.
- For example, if US 1.00 = CA 1.30, it means that it costs 1.30 Canadian dollar to buy one US dollar.
- Variations in exchange rates will affect trade volumes.
- Possible to buy futures for the exchange rate and hence hedge.



## Euro-US exchange rate



# Mexico-US exchange rate

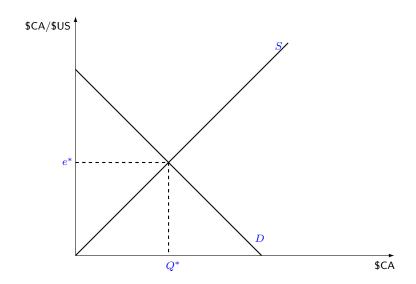


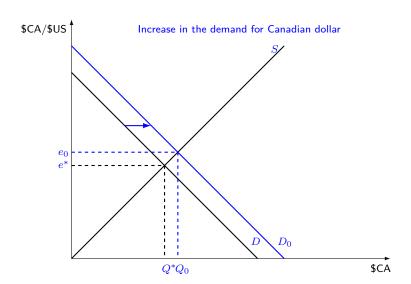
## China-US exchange rate

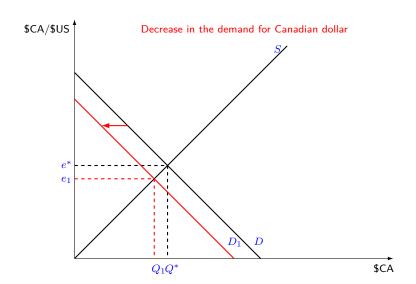


# What determines an exchange rate?

- The exchange rate is determined by market forces.
- The intersection of the demand and supply for a currency determines its exchange rate relative to another currency.
- For example, Canada is an oil exporter. If the price of oil increases, the demand for \$CA increases because oil buyers must use \$CA to purchase Canadian oil, thus causing the value of \$CA to increase relative to \$US.







#### Who trades currencies?

- Those that demand US dollars are:
  - Buyers of US commodities (e.g. firms that import goods from the United States);
  - ► Tourists:
  - Speculators, hedgers.
- Those that supply US dollars are:
  - US importers;
  - US government;
  - US tourists visiting other countries;
  - Speculators, hedgers.

#### Currency value and trade

- Changes in currency values affect relative prices across countries.
- If the value of Canadian dollar falls, that means it becomes relatively cheaper for Americans to import products from Canada.
- This means that the depreciation of a country's currency can boost its exports.
- This is why China has been accused to manipulating the value of its currency.

#### Currency value and trade

- Most exchange rates move freely.
- A few countries have been manipulating their currency.
- China has been manipulating the value of the Renminbi for quite some time in an effort to favor its exports.
- China has let its currency move more freely in recent years.
- Many countries oppose China's currency policy and some have suggested that this may bring WTO complaints, but there is no apparent role for the WTO to play in this issue. Perhaps the IMF?
- It does appear that China has been devaluating the value of its currency to offset the value of recent import tariffs imposed by the United States starting in 2018.
  - See graph of China-US exchange rate.

# Exchange rate and agricultural markets

- Of course the exchange rate impacts agricultural markets.
- The demand for US agricultural commodities increases if the US dollar depreciates.
- The demand for US agricultural commodities decreases if the US dollar appreciates.
- US will import more from country which currency depreciates.
- US will import less from country which currency appreciates.

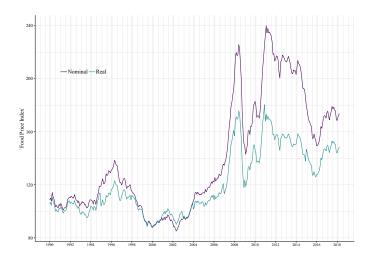
# Exchange rate and agricultural markets

- Changes in a currency values usually respond to countries relative economic strength.
- As agriculture is a small share of most economies, agriculture has a marginal effect on exchange rates.
- Appreciation of a country's currency may boost its demand for a US commodity, thus increasing the price of that commodity in the United States.

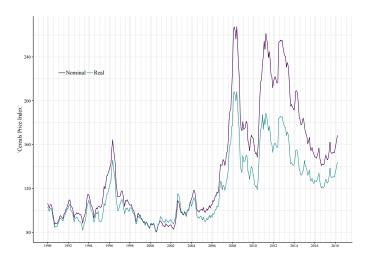
#### Trends in global agricultural markets

- Agricultural prices were relatively stable between 1990 and 2007.
- Then, in 2007, the price of food practically doubled and became more volatile.
- Several competing explanations of the price boom:
  - Speculation (not credible);
  - ▶ Ethanol policy in the United States (may have contributed);
  - ► Contemporaneous supply and demand surprises that coincide with low inventories and macroeconomic shocks (see Carter, Rausser and Smith, 2011).
- Note that there was also a price boom of agricultural commodity prices in the 1970s.

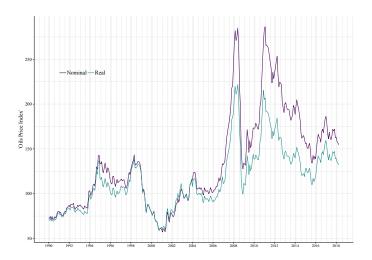
#### FAO World Food Price Index



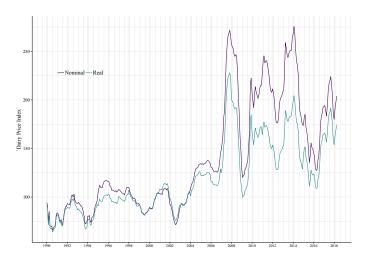
#### FAO World Cereals Price Index



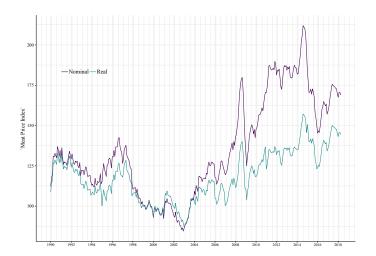
#### FAO World Oils Price Index



#### FAO World Dairy Price Index



#### FAO World Meat Price Index



# Some thoughts about the US-China trade war I

- The Trump administration has decided to start a trade war with China.
  - ▶ If you have not been following, the United States began imposing tariffs on Chinese imports with the stated goal of reducing the trade deficit with China.
- There are several issues to address with China regarding trade and this CRS report covers them in detail.
- China has a poor track of protecting intellectual property rights.
  - Counterfeiting of US brands is common (even for ag. products).
- China has forced technology transfer:
  - ► For example, a US firm trying to establish itself in China might have to give its technology to the Chinese government.
- Subsidized loan to Chinese firms:
  - ▶ Such loan helps chinese firms compete on the international market.

#### Some thoughts about the US-China trade war II

- State-own firms:
  - ▶ It is sometimes unclear whether a firm is private or own by the Chinese government.
  - A state-own enterprise may not behave competitively but rather try to achieve the goals of its government.
- Currency policy:
  - There is a lack of transparency about how China controls the value of its currency.
  - ▶ It does seem that China has been exerting less control over the value of its currency.

#### Some thoughts about the US-China trade war III

- Trade deficit is not a reason to start a trade war:
  - If you purchase groceries from a store, you have a trade deficit with that store.
  - ▶ Is that a problem?
  - ▶ The store sells you goods that otherwise you would have to purchase at a higher price or incur a higher cost to obtain these goods (e.g. by driving to a store further away).
  - ▶ In return for the goods, the store obtains some money from you.
  - Both you and the store gain from the exchange.
  - The same is true in trade.

#### Some thoughts about the US-China trade war IV

- Many of the policies implemented by the President increase the trade deficit:
  - ► Giving tax breaks increases consumer spending and hence the demand for foreign products, which increases the trade deficit.
  - Increased consumer spending can create inflation, which the Federal Reserve will try to control by increasing the interest rates, which will cause an increase in the value of the US dollar, and hence increasing the US import demand.
  - ► See a discussion in this New York Times point of view.

#### Some thoughts about the US-China trade war V

- China is not going to let itself be bullied by the United States and it will find ways to minimize the impact of US tariffs.
- China has many assets that will help it deal with US tariffs:
  - China is the second largest economy and trades with many other countries.
  - ► The Chinese economy has been growing at a fast pace and a trade war with the US will not have a huge impact on that growth.
  - China is not a democracy and thus does not have to think about the next elections.
  - China can control the value of its currency. The graph above shows that the Renminbi has lost value with respect to the US dollar since the imposition of tariffs.
- China is the most populous country with many smart people to find how to best deal with the tariffs.

## Some thoughts about the US-China trade war VI

- The trade war is very costly to China but also to the United States:
- US tariffs cause an increase in the price of goods in the United States. Tariffs are in fact taxes.
- agricultural commodities such as soybeans and hogs.

Tariff retaliation by China has caused declines in prices for US

- To compensate farmers, the federal will be spending billion of dollars.
- Even if the trade war ends soon, it may take time for US exports to China to recover:
  - Business relationships have been broken because of the tariffs;
  - Chinese buyers have established relationships with sellers in other countries.

#### Conclusions

- International markets are becoming more and more important;
- Increase in income, especially in developing countries, drives new demands for agricultural commodities, especially for *luxury* food products (e.g. meat);
- Under the Trump administration, it is not clear what could happened with US trade.
  - ▶ Hopefully, Trump never pulls out of the WTO.

#### References I

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