



GAYORI
AGRICULTURAL
Feeding the world

Alfalfa Production

AGROTHINKERS
AGROINNOVATORS
AGROSENSITIVE
AGRODREAMERS
AGROUNLIMITED





WHAT WE DO?



GAYORI has developed a successful business model as a producer and supplier of feed for livestock enterprises.

It also has a livestock farm with cattle production and fattening.



We produce Alfalfa, oats and malt barley, in order to be one of the most important suppliers of food for dairy and meat cattle in our territory.



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OUR PRODUCT



ALFALFA

Alfalfa is cultivated as an important forage crop in many countries around the world. It is used for grazing, hay, and silage, as well as a green manure and cover crop.

The word alfalfa is a Spanish modification of the Arabic dialect al-fasfasa

History

Alfalfa (*Medicago sativa* L.) is one of the most important perennial forage species in the world and the most frequently used for dairy cattle in arid, semiarid and temperate regions of Mexico.

The importance of alfalfa is due to its nutritional value, and its utilization as green forage, hay, silage and pellets.

Global production is centered in USA, Argentina, Canada and China. In Mexico, the States of Jalisco, Hidalgo, Guanajuato and Baja California are the states with largest sown surface. Chihuahua, Coahuila, Durango, are also increasing their alfalfa production. However, domestic production is insufficient, and about 80-85% of alfalfa needs is imported from USA and other countries.





OUR PRODUCT



ALFALFA



Alfalfa is widely grown throughout the world as forage for cattle, and is most often harvested as hay, but can also be made into silage, grazed, or fed as greenchop. Alfalfa usually has the highest feeding value of all common hay crops.

Its primary use is as feed for high-producing dairy cows, because of its high protein content and highly digestible fiber, and secondarily for beef cattle, horses, sheep, and goats.

Humans also eat alfalfa sprouts in salads and sandwiches. Dehydrated alfalfa leaf is commercially available as a dietary supplement in several forms, such as tablets, powders and tea. Fresh alfalfa can cause bloating in livestock, so care must be taken with livestock grazing on alfalfa because of this hazard.

Alfalfa is the 3rd. most valuable grain product in the agricultural sector in the world.





MEN AT WORK



TRUCK FLEET #GAYORI_Force



OUR PRODUCT

Mexico's alfalfa offered by GAYORI is cut and harvested 6 times a year, but it can be harvested up to 7 times per year, especially in mild winter years.

GAYORI's alfalfa production output is around 3000 tonnes per month.

Mexico's alfalfa could be exported to North American, European, Asian and Middle Eastern markets. Over the years, Mexico has signed phytosanitary protocols with numerous countries to certify its alfalfa destined to foreign markets.

Gayori's Alfalfa represents +/- 5% change in animal productivity (milk, meat) due to forage quality.

Gayori's Alfalfa quality category is SUPREME, the best of the world.





SUSTAINABILITY



**Honey bee
(Apis mellifera),
a pollinator on alfalfa flower**

Gayori's cultivation and harvesting of alfalfa is been done in the most sustainable way.

Being a crop that uses large volumes of water, Gayori has developed a unique process in order to better use of the resource.

When used as feed for dairy cattle, alfalfa is often made into haylage by a process known as ensiling. Rather than being dried to make dry hay, the alfalfa is chopped finely and fermented in silos, trenches, or bags, where the oxygen supply can be limited to promote fermentation.

The anaerobic fermentation of alfalfa allows it to retain high nutrient levels similar to those of fresh forage, and is also more palatable to dairy cattle than dry hay.

Specific nutrients and functional properties that produce a result in the animal:

- + Energy (carbohydrates, oils, fiber)
- + Protein (metabolizable protein)
- + Minerals

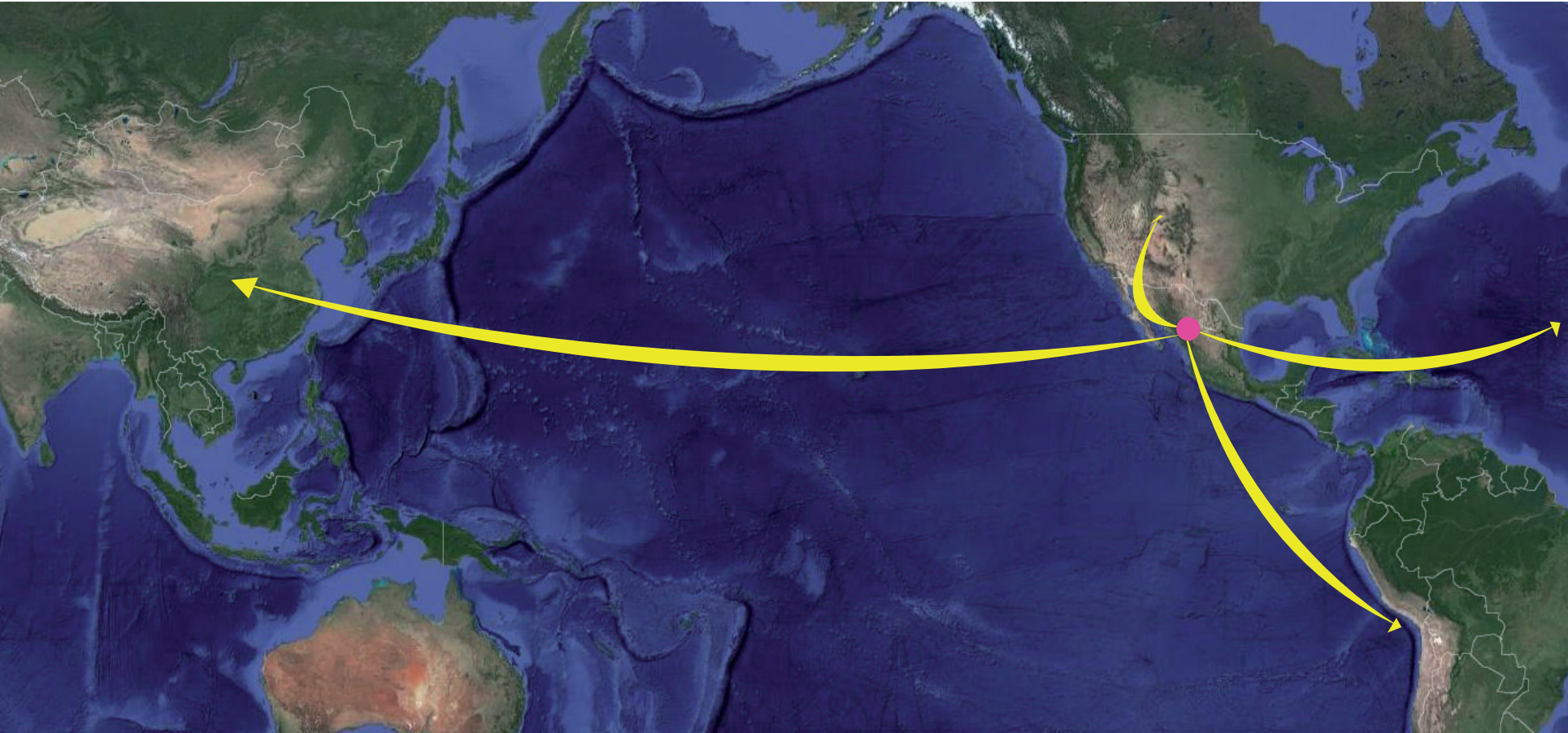


Long distance Transport

In the past 20 years, exports have gone from a minor to a major component of production all over the world.



CONNECTIONS



During that time, Mexico has significantly increased alfalfa production.

NORTH AMERICA • SOUTH AMERICA • ASIA • MIDDLE EAST • EUROPE

#FEEDINGTHEWORLD





How does Gayori's alfalfa quality translate to markets?

- * Alfalfa offered by Gayori complies with the highest quality requirements (RFV, TDN, RFQ)
- * However, the role of forages in diets is genuinely complex
- * We MUST increasingly understand the value of digestibility, protein, and the functional nature of the fiber itself

Key Measurements

- * NDF (Neutral Detergent Fiber)
- * NDFD 30 (NDF Digestibility)
- * CP (Crude Protein)
- * Ash (non-energy minerals)





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