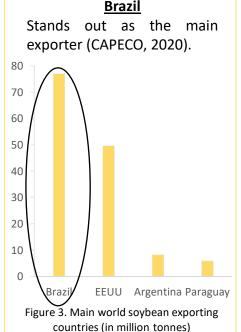
# The impact of soybean cultivation in the Amazon on climate change and the possible alternatives for animal feed.

# Samantha Burston Alonso 2020 June

### **GOALS**

- 1. To understand and expand on the factors involving the problems created by the use of soybeans in animal feed.
- 2. To Identify possible **initiatives** to combat these problems
- 3. To propose alternative leguminous crops that could be used to feed livestock in Spain and therefore not rely so much on the importation of soybeans.

#### It should be taken into account that...



#### Spain

Spain is the second largest importer of soybeans in Europe (2.3% of the world's imports), mostly destined for animal feed (MAPA, 2019).

## Why are soybeans used in animal feed?

They have great nutritional value and are especially used for their high protein content, which is about 40%. In addition, they are very cheap (Liu, 1999).

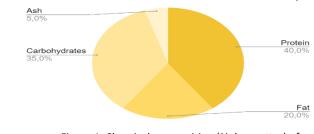
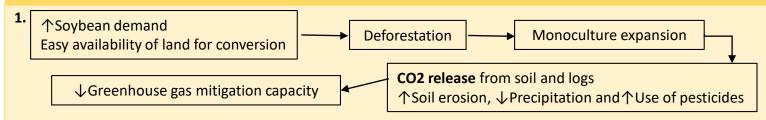


Figure 1. Chemical composition (% dry matter) of soybeans.

#### **CONCLUSIONS**



- **2.** (1) Main initiative  $\rightarrow$  The **Soybean moratorium** to not sell or finance soybeans from deforested areas of the Amazon.  $\rightarrow$  There's a lot of non-compliance so new laws are needed. (2) Europe  $\rightarrow$  support for sustainable small farms  $\rightarrow$  A reduction in the over-expansion of the culture. (3) Actions to **reduce meat consumption in Europe**  $\rightarrow$  Less imports of soybeans  $\rightarrow$  There is still a lack of awareness among the inhabitants. (4) Greenpeace advocates **no use of unauthorized products** (**pesticides**)  $\rightarrow$  Many countries do not comply.
- **3.** Lupin, beans and peas because of the good climatic conditions in Spain and their high protein content. As a novelty, the species *Vicia narbonensis* was cultivated in the past and could be recovered. Also, the species *Morus alba* although it is not a legume, has good nutritional value and is currently cultivated in other countries. Spain could look at this.