



# ACTION FACT SHEET for ADVISORS

## Sustainable animal feed

|                                   |   |
|-----------------------------------|---|
| <b>Goal</b>                       | Procurement of animal feed that does not contribute to the destruction of habitats.   |
| <b>Target group</b>               | Farmers or advisors managing cattle or other ruminants.   |
| <b>Description of the measure</b> | <p>Every year, the EU imports about 35 million tonnes of soy (<i>Glycine max</i>), corresponding to about 35 % of the global soy trade. These imports proceed mainly from South America: Brazil, Argentina, Paraguay, Uruguay and Bolivia produce over 50 % of the world soy in an area of about 55 to 60 million hectares. Overall, about 80 % of the soy produced in these countries is exported (Lambin et al., 2003; Nepstad et al., 2009; Teillard et al., 2016; Wassenaar et al., 2007).</p> <p>The worldwide demand for soy is driven mostly by animal production systems: about 75 % of the soy produced in the world is used as animal feed (WWF, 2016). This is not expected to change given that, despite a slowing growth rate, the global demand for food resulting from livestock production is expected to continue to increase, particularly in South Asia and Africa, after a period of rapid growth in Latin America (FAO, 2015).</p> <p>Soy production grew tremendously over the last four decades and is still increasing (Cattelan and Dall’Agnol, 2018). For instance, about 6 million hectares are already cultivated with soy in the Brazilian region of Mato Grosso but the country is still offering additional millions of hectares for the same purpose, mainly in the same region (Bragança and Cohn, 2019).</p> <p>Soy production has been one of the main drivers causing the loss of primary forests, areas of cerrado and unique wetlands in the Amazon, Pantanal and Mato Grosso regions. According to several NGOs, soybean cultivation has already led to the destruction of vast areas of the Amazonian and Pantanal rainforests and it is still driving further deforestation, even though since 2006 a memorandum on saving the tropical rainforests has helped to decrease some of the pressure (WWF, 2016).</p> <p>The European CAP regulations (EC, 2013) do not apply to South American agriculture. Therefore, the best practice is to prioritize the certified production of fodder in Europe. Importing from other biodiversity-certified sources is an alternative, but local production is preferable as it prevents Greenhouse Gas (GHG) emissions from transport.</p> <p>Choosing not to import soy products from sources outside of the European Union also makes it easier to avoid genetically modified (GMO) varieties. More than 90 % of the soy produced in South America consists of GMO varieties (Trase, 2018). Currently, the use of 17 GM soybean varieties, for food or animal feed production, is allowed in the European Union (EU, 2019). However, products containing GM products for human consumption require compliance with the EU’s labelling and traceability rules.</p> |
| <b>Suitable sites</b>             | <ul style="list-style-type: none"> <li>▪ Farms where cattle or other ruminants are kept and reared and which are not able to provide a full diet based on local pastures or locally produced fodder.</li> </ul>   |
| <b>How a good im-</b>             | <ul style="list-style-type: none"> <li>▪ Livestock are fed exclusively with pastures or locally produced fodder;</li> </ul>   |

|  |  |
|--|--|
| <p><b>Implementation looks like</b></p>  | <ul style="list-style-type: none"> <li>■ Any imported feed comes from biodiversity-friendly certified producers inside the European Union;</li> <li>■ Any imported feed coming from locations outside the European Union comes from biodiversity-friendly certified producers.</li> </ul>  |
| <p><b>Effects on biodiversity</b><br/>(ecosystems, species, soil biodiversity)</p> |  <p>Avoidance of deforestation and ecosystem destruction driven by animal feed demand.</p>  |
| <p><b>Other positive effects/benefits for the farmer</b></p>                       | <ul style="list-style-type: none"> <li>■ Livestock reared in pastures and fed primarily with grass species produce milk or meat with higher levels of omega-3 fatty acids; vitamins A, E, 82, and 89; carotenoids; and phenolics (Duru et al., 2017).</li> </ul>   |
| <p><b>References</b></p>   | <ul style="list-style-type: none"> <li>■ Bragança, A., Cohn, A.S., 2019. Predicting Intensification on the Brazilian Agricultural Frontier: Combining Evidence from Lab-In-The-Field Experiments and Household Surveys. <i>Land</i> 8, 21.<br/><a href="https://doi.org/https://doi.org/10.3390/land8010021">https://doi.org/https://doi.org/10.3390/land8010021</a></li> <li>■ Cattelan, A.J., Dall’Agnol, A., 2018. The rapid soybean growth in Brazil. <i>OCL - Oilseeds fats, Crop. Lipids</i> 25, D102.</li> <li>■ Duru, M., Bastien, D., Froidmont, E., Graulet, B., Gruffat, D., 2017. How products from grass-fed cattle contribute to nutrient intake and consumer health. <i>FOURRAGES</i> 230, 131–140.</li> <li>■ EC, 2013. REGULATION (EU) No 1307/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 December 2013 establishing rules for direct payments to farmers under support schemes within the framework of the common agricultural policy and repealing Council Regulation. <i>Off. J. Eur. Union L</i> 347, 608–670.</li> <li>■ EU, 2019. EU Register of authorised GMOs [WWW Document]. EU Regist. Genet. Modif. food Feed. URL<br/><a href="https://webgate.ec.europa.eu/dyna/gm_register/index_en.cfm">https://webgate.ec.europa.eu/dyna/gm_register/index_en.cfm</a></li> <li>■ FAO, 2015. The second report on the state of the world’s animal genetic resources for food and agriculture. FAO Commission on Genetic Resources for Food and Agriculture Assessments, Rome, Italy.</li> <li>■ Lambin, E.F., Geist, H.J., Lepers, E., 2003. Dynamics of land-use and land-cover change in tropical regions. <i>Annu. Rev. Environ. Resour.</i> 28, 205–241.</li> <li>■ Nepstad, D., Soares-Filho, B.S., Merry, F., Lima, A., Moutinho, P., Carter, J., Bowman, M., Cattaneo, A., Rodrigues, H., Schwartzman, S., McGrath, D.G., Stickler, C.M., Lubowski, R., Piris-Cabezas, P., Rivero, S., Alencar, A., Almeida, O., Stella, O., 2009. The end of deforestation in the Brazilian Amazon. <i>Science</i> (80-. ). 326, 1350–1351.</li> <li>■ Teillard, F., Anton, A., Dumont, B., Finn, J.A., Henry, B., Souza, D.M., Manzano, P., Milà i Canals, L., Phelps, C., Said, M., Vijn, S., White, S., 2016. A review of</li> </ul> |

indicators and methods to assess biodiversity – Application to livestock production at global scale. Livestock Environmental Assessment and Performance (LEAP) Partnership, Food and Agriculture Organization of the United Nations (FAO), Rome, Italy.

- Trase, 2018. Trase Yearbook 2018, Sustainability in forest-risk supply chains: Spotlight on Brazilian soy. Transparency for Sustainable Economies, Stockholm Environment Institute and Global Canopy.
- Wassenaar, T., Gerber, P., Verburg, P.H., Rosales, M., Ibrahim, M., Steinfeld, H., 2007. Projecting land use changes in the Neotropics: the geography of pasture expansion into forest. Glob. Environ. Chang. 17, 86–104.
- WWF, 2016. Soy scorecard - assessing the use of responsible soy for animal feed. WWF – World Wide Fund for Nature, Gland, Switzerland.

## Further information: [Knowledge pool](#)

This Action Fact Sheet belongs to the training package for advisors of standard organisations and companies and was developed within the project: “Biodiversity in Standards and Labels of for the Food Industry”. The main objective of the project is to improve the biodiversity performance of standards and sourcing requirements in the food industry by helping standard organisations to integrate efficient biodiversity criteria into their schemes and motivating food processing companies and retailers to include comprehensive biodiversity criteria into their sourcing guidelines.

Editor: “Biodiversity in Standards and Labels of for the Food Industry”; Instituto Superior Técnico (IST) / University of Lisbon

### European Project Team



### Supported by



[www.food-biodiversity.eu](http://www.food-biodiversity.eu)