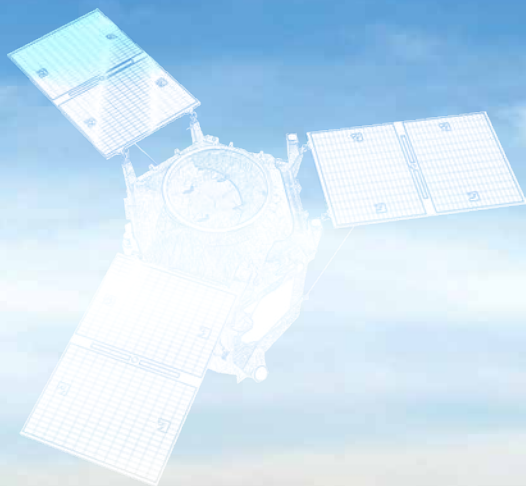


Grassland Production Index

The reference index for
grassland insurance



AIRBUS

The background of the entire page is a lush, green field of purple coneflowers. In the foreground, several purple flowers with dark brown centers are in focus. A monarch butterfly with orange and black wings is perched on one of the flowers in the lower center. The background is a soft-focus green field with more flowers and foliage.

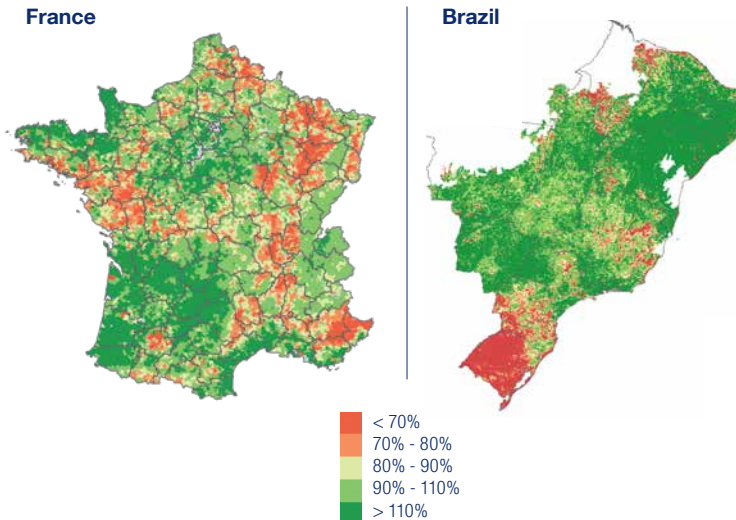
What is Grassland Production Index (GPI)?

Launched by Airbus in 2016, Grassland Production Index (GPI) is based on continuous satellite imagery observation of prairies to measure production variations.

Released annually at the end of October in the northern hemisphere and at the end of June in the southern hemisphere, the index enables insurers to observe prairie production variations and trigger compensation when necessary.

How is it constructed?

- 1 A **continuously updated** image bank from **two satellite constellations**.
- 2 Using **24+ years** of satellite data history.
- 3 Incorporation of **topographic data** (altitude, slope, exposure) and **meteorological information**.
- 4 Estimation of annual prairie production using **Airbus' unique image processing and agronomic modeling expertise**.
- 5 Measurement of **production variations at the local level** by comparing annual production to the five-year Olympic average or on another average defined by country regulations.



- Example on a one-month production loss map -

A Trustworthy Index

Because fair compensation is crucial in the event of climatic uncertainty in prairies, GPI is built on a rigorous scientific approach validated by competent authorities.

Seven years of research and development.

Two theses and numerous experiments involving French independent laboratories, insurance companies, and farmers were necessary to develop GPI.

Annual accreditation – French specific case

Each year in November, Airbus submits GPI to an independent Expert French Committee under the auspices of the Ministry of Agriculture and the Ministry of Budget to validate its use for insurance products to be marketed in the following year.

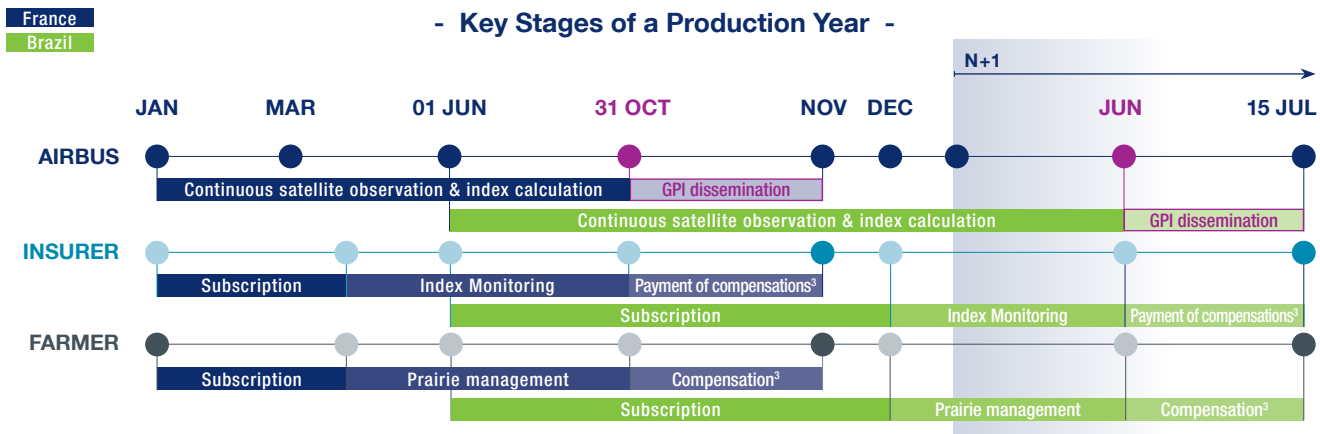
¹ Agronomy institutes, Purpan School of Engineering, and the University of Paris Dauphine.

² CNES, Météo France, INRAE, ISFA Lyon



"In 2016, my prairie production dropped by 30% due to drought. With my prairie insurance, I was quickly compensated for my production losses. Without it, I would have been in dire straits."

François A.,
Aveyron, France cattle farmer



³ Compensation in case of loss revealed by the index. The compensation period may vary according to the contractual conditions of your prairie insurance.



The Benefits of GPI

(Grassland Production Index)

- **Reliable:** The estimation of production deficit is based 100% on objective and scientific observational data.
- **Fair and Equitable:** The calculation is consistent everywhere and for everyone.
- **Simple and Quick:** By eliminating the need for on-site expertise, the compensation process is expedited, and the reporting procedures are simplified.
- **Secure:** Regardless of the overall production result, GPI allows the insurer to determine the compensation amount based on the insured capital.



About Airbus Defence and Space

Airbus Defence and Space is a division of the Airbus Group and is the leading European company in the space and defense industry. With expertise in agronomy and geospatial technology, it offers a wide range of innovative solutions for smart and responsible agriculture.

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Learn more about
the Grassland
Production Index



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