

ExtendWeather Seasonal Forecast for the Agriculture Sector



The agricultural sector needs accurate, reliable and timely weather and climate information for daily tactical decisions and long-term planning. Seasonal climate forecast are increasingly important tools for decisions in cropping, pasturing, and dairying with increases in climate variability and extremes.

Featured Seasonal Forecast Products

ExtendWeather is dedicated to the delivery of practical forecast indicators to the agricultural sector beyond industry standard precipitation and temperature anomalies:

- Degree days
- Pasture Growth Index
- Crop growth index
- Drought indices
- Soil Moisture

Applications

Weather forecasts support operational decision making on the timing of cultivating, irrigating, spraying and harvesting. Seasonal forecasts support strategic decisions regarding crop cultivar selection and intended acreage/hectares for planting.

Sub-seasonal weather forecasts present a specific opportunity to bridge the gap in these two time frames. Viable forecast information beyond the traditional 10 day window can extend the time horizon for agricultural commodity price analysis and forecasting, and so support farmers' decisions about production, storage and marketing, as well as logistical decisions in dealing with regional shortfalls and excess product availability.

For commodities with futures markets, sub-seasonal weather forecasts can support hedging strategies.



Futures, forward contracts and hedging are a prevalent practice with agricultural commodities. A sub-seasonal decision support system has the potential to help users better navigate what is often a volatile agricultural commodity marketplace and reign in risk exposure faced by agricultural producers and suppliers. It also has the potential to help various participants in the agriculture cycle more intelligently join in the appropriate risk management markets via the extension of reliable outlooks beyond the current limited time scales.

Indicators for Agriculture Risks

Drought index forecasts probabilities of unusual and extreme events in temperature and precipitation; while the drought/wet index forecasts the onset of drier than usual and

Modelling and Data Provision

ExtendWeather scientists can provide modelling and tool development services to answer clients' particular operational and planning questions.

We can also deliver data packages that are customized to seamlessly integrate with clients' models or for facilitate speedy ingestion for new information for timely analysis.



ExtendWeather Seasonal Forecast

Innovative sciences, customized so-



Seasonal Forecasts – Our monthly forecasts and 10 day (or biweekly) advisories keep you abreast of the latest model guidance and potential changes to the forecast.

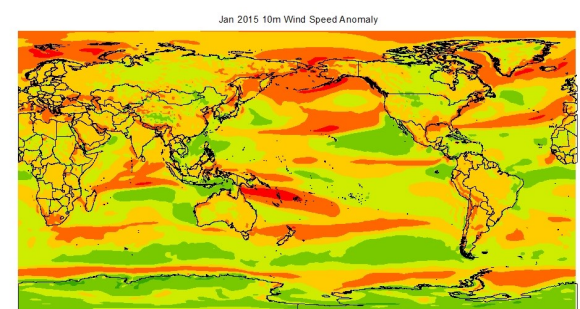
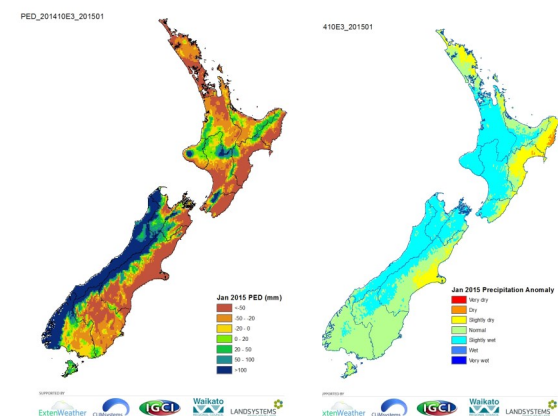
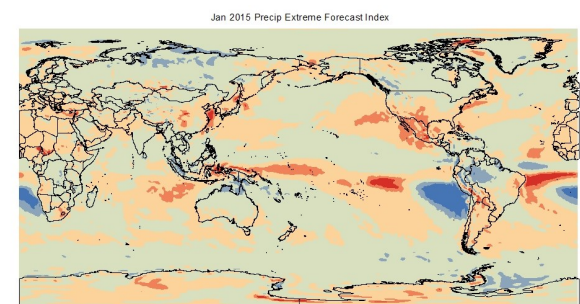
Intelligence –The Seasonal Forecast leverages the valuable (and not widely distributed) data from the second version of the NCEP (National Centre for Climate Predictions) Climate Forecast System (CFSv2). It provides a probabilistic forecast of up to nine months with customized practical indicators for the agricultural sector. This forecast also discusses teleconnection indexes and other global circulation phenomenon such as El Niño/La Niña.

Practical and Comprehensive – ExtendWeather provides detailed one to nine month customized forecast indicators beside traditional temperature and precipitation forecasts. Including wind and solar radiation and derived products such as drought and wet period onsets, extreme forecast index (EFI), and potential evapotranspiration index (PED).

Proprietary Models – ExtendWeather has developed different approaches and models, considers ENSO, sea level pressure anomalies and temperature trend and applies a scientifically robust downscaling technique. This distinct model approach enables us to provide the most accurate seasonal forecast in the industry.

About ExtendWeather

ExtendWeather is a brand of CLIMsystems Ltd. With the support from local council, industries, and international institutes and experts, ExtendWeather is able to provide a public website for general seasonal climate forecast products and a subscription service for digital provision of forecast data along with customized services and solutions to agricultural industry clients.



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