

## Evaluating the Effects of Weather and Climate Change to Risks in Crop Production

**Authors :** Marcus Bellett-Travers

**Abstract :** Different modelling approaches have been used to determine or predict yield of crops in different geographies. Central to the methodologies are the presumption that it is the absolute yield of the crop in a given location that is of the highest priority to those requiring information on crop productivity. Most individuals, companies and organisations within the agri-food sector need to be able to balance the supply of crops with the demand for them. Different modelling approaches have been used to determine and predict crop yield. The growing need to ensure certainty of supply and stability of prices requires an approach that describes the risk in producing a crop. A review of current methodologies to evaluate the risk to food production from changes in the weather and climate is presented.

**Keywords :** crop production, risk, climate, modelling

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