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Patent Search

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Abstract:

Embodiments generate digital plans for agricultural fields. In an embodiment, a model receives digital inputs including stress risk data, product maturity data, field lo planting date data, and/or harvest date data. The model mathematically correlates sets of digital inputs with threshold data associated with the stress risk data. The r used to generate stress risk prediction data for a set of product maturity and field location combinations. In a digital plan, product maturity data or planting date data data data or field location data can be adjusted based on the stress risk prediction data. A digital plan can be transmitted to a field manager computing device. An ag apparatus can be moved in response to a digital plan.

Complete Specification

Description:Embodiments generate digital plans for agricultural fields. In an embodiment, a model receives digital inputs including stress risk data, product maturity field location data, planting date data, and/or harvest date data. The model mathematically correlates sets of digital inputs with threshold data associated with the risk data. The model is used to generate stress risk prediction data for a set of product maturity and field location combinations. In a digital plan, product maturity planting date data or harvest date data or field location data can be adjusted based on the stress risk prediction data. A digital plan can be transmitted to a field material computing device. An agricultural apparatus can be moved in response to a digital plan., C, C, C, Claims:1. A computer-implemented method for generating an improved digital plan for agricultural fields associated with a grower operation during a growing season, the method comprising:

receiving, by a predictive model, a set of digital inputs relating to a digital plan; wherein the set of digital inputs comprises, for products to be planted in the agricultifields, stress risk data and at least one of product maturity data, field location data, planting date data, harvest date data;

wherein the predictive model has been trained to mathematically correlate sets of digital inputs with predictive threshold data that is associated with the stress risk using the predictive model, generating, as digital output in response to the set of digital inputs, stress risk prediction data for a set of product maturity and field loca combinations;

wherein the stress risk prediction data indicates a mathematical likelihood of actual harvest data matching desired harvest data on a particular date during the grov season; wherein the actual harvest data includes product moisture measured at harvest resulting from planting of a product in accordance with the digital plan; wherein the desired harvest data indicates moisture associated with a desired product yield;

2. The method of claim 1. wherein the stress risk prediction data indicates a prediction of any one or more of yield. harvest moisture, field readiness for planting

View Application Status



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