

Title (en)
FORECASTING NATIONAL CROP YIELD DURING THE GROWING SEASON

Title (de)
VORHERSAGE DES LANDESWEITEN ERNTEERTRAGS WÄHREND DER VEGETATIONSPERIODE

Title (fr)
PRÉVISION DE RENDEMENT NATIONAL DES CULTURES PENDANT LA SAISON DE CROISSANCE

Publication
EP 3278281 A1 20180207 (EN)

Application
EP 16714679 A 20160321

Priority
• US 201514675992 A 20150401
• US 2016023348 W 20160321

Abstract (en)
[origin: WO2016160384A1] A method for determining national crop yields during the growing season using regional agricultural data. A server computer system receives agricultural data records that represent covariate data values related to plants at specific geo-locations at a specific time. Agricultural data records are aggregated to create geo-specific time series that represents a specific geo-location at a specified time. An aggregated time series is created from a subset of the geo-specific time series. Then a covariate matrix is created from representative features from the aggregated time series for each specific geographic area. State specific crop yields are determined using a linear regression module to calculate the state specific crop yield for the specific year. A national crop yield is calculated using a distribution for a specific year from the sum of the state specific crop yields for the specific year nationally adjusted using a national yield adjustment module.

IPC 8 full level
G06Q 10/04 (2012.01); **G06Q 50/02** (2012.01)

CPC (source: EP)
G06Q 10/04 (2013.01); **G06Q 50/02** (2013.01)

Citation (search report)
See references of WO 2016160384A1

Cited by
US11222206B2; WO2020160642A1

Designated contracting state (EPC)
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US 2016023348 W 20160321; AR P210102553 A 20210914; BR 112017021043 A 20160321; CA 2981473 A 20160321; EP 16714679 A 20160321; EP 20162576 A 20160321