



New Technologies Provide Farmers Weather and Crop Information

A-MAPS Environmental Inc. developed new and innovative software applications for providing real-time weather and climatology information at the level of the individual field to farming enterprises, agronomists, and suppliers of agricultural chemicals.

The applications can support: crop monitoring activities, decisions concerning irrigation, estimates of crop disease risk, the planning of crop protection strategies, decisions on when to harvest to maximize yields as well as the assessment of weather-related livestock issues such as transportation and animal health protection.

For farmers and agronomists, accurate knowledge of local weather crop status conditions - past, current and near future - is essential for protecting crops and optimizing conditions for growth. It is necessary for planning irrigation, assessing the risk of certain crop diseases, and promoting the most cost-effective schedules for fertilizer, herbicide and fungicide application. The information our tools provide can also support decisions concerning the best time to harvest to maximize yield. Real-time weather and climatology information at small spatial scales is also important for determining whether conditions are putting livestock at risk or are adverse for transportation. As standard weather reports (radio, TV, internet) are based on measurements taken at weather stations often tens of kilometres distant, agronomists often use their own small weather stations situated at locations/fields of interest. Such a solution is costly and inconvenient since it requires the purchase of the equipment, its periodic maintenance and calibration, and data processing.

A-MAPS offers an integrated, cost-effective solution: software applications (PC based, web and smartphone) which can provide the necessary weather and crop information in real-time to any individual farmer or agronomist, specific to the field or location of interest.

The key advantages of our solution include:

- The software application content can be customized and merged with other proprietary agronomy and farming applications;
- Since A-MAPS is able to generate data on local scales (within a few km) using earth observation satellite imagery, the information A-MAPS provides is much more accurate and detailed than the information provided by standard weather and climate information providers;
- Changing color (“greenness”) of the growing crop can be periodically monitored;
- The information relevant to a specific field is bundled in a single app avoiding the need for the user to switch between different websites, apps, and/or files dealing with climate, weather and crop information; and
- The software application calculates and reports the statistics needed for decision making.

Information:

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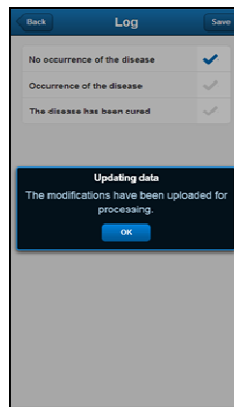
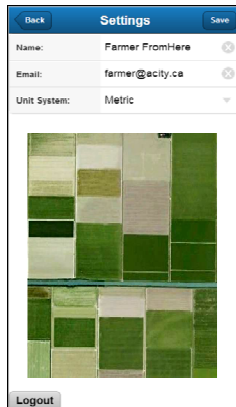
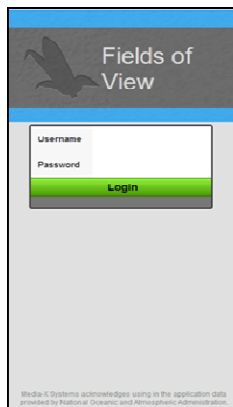
A-MAPS Environmental Inc.



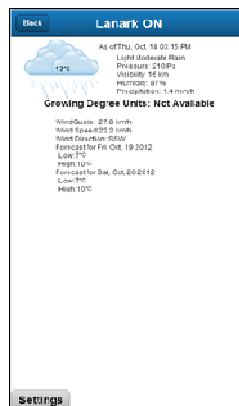
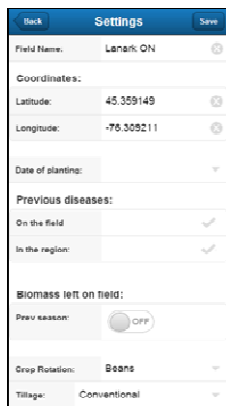
Examples

Examples of screenshots of a prototype smartphone app dealing with corn disease risk assessment.

The assessment is based on records of weather conditions during the growing season, field facts and correlation studies.

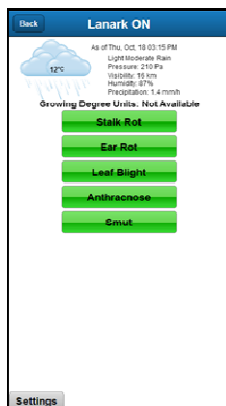


User Login, actual field imagery and crop disease history screens



Settings and local weather screens

User can input and change field settings including field identifications, geographical coordinates, crop, planting date and field history (tillage, biomass leftovers, previous disease occurrence, crop rotation). The information is sent to the profiles database.



Field disease risks and disease information screens

Risks of occurrence of five major corn diseases are indicated by means of colour bars. Green means low risk, while red refers to a high disease risk. By clicking the colour bar, the disease information screen pops up.