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MyFields Mobile Abstract

The MyFields Mobile app for Android and iOS is designed to provide a solution for farmers to manage their fields on the go. Most farmers currently use paper and pen to keep track of information related to their crops and fields; this app will provide a mobile interface for a farmer to bring that management into the digital age. The app includes functionality for creating a field, displaying and editing an existing field’s information, and providing a working list of fields for the user. It also provides functionality for synchronizing that user’s field information with a web server that will store that data securely in the cloud.

Beyond field management, the app also includes functionality for farmers to take pest samples from their fields. This provides an easy way for farmers to associate a particular pest with their field to keep track of it; beyond that, however, the app will also provide a determination of whether a field’s population of a particular pest is above acceptable levels. At the end of taking a sample, based on the data collected by the farmer, the app will output a determination to treat the field for that particular type of pest (usually by spraying insecticide). These samples are associated with a particular field and will therefore track not only the current pest levels of the field, but also the field’s history of pests.