SPRAY CONDITIONS DECISION SUPPORT

Description:

Iteris' Spray Window Decision Support API meets the growing demand for minimizing drift, over-spraying and crop damage, while improving the results of crop protection product applications. The Spray Window API includes 10 environmental conditions most critical for spray applications:

- Wind Direction
- Wind Speed
- Inversion Risk
- Rain-free Hours
- 24-Hour Precipitation Amounts
- Leaf Canopy Wetness
- Temperature
- Humidity
- Field Soil Conditions
- Delta T

Endpoints include:

Leaf Canopy Wetness:

Provides an estimate of vegetation canopy wetness for a user-specified period of up to 240 hours in length for any period in the previous complete year to 10 days into the future. This endpoint may be used to estimate pressures for moisture-related crop diseases that can impact plant growth or crop yield.

Hourly Spray Conditions:

Provides hourly historical and forecast environmental elements to be considered when making spray decisions, including inversion risk, temperature, humidity, wind speed, wind direction, precipitation and leaf canopy wetness.

Spray Window:

The Spray Window endpoint provides periods of acceptable spraying conditions tailored to a particular field and set of chemical product application parameters, while using Iteris' proprietary eMPower weather and soil forecasts. This endpoint accepts thresholds for maximum wind speed and hours before the next potential rain. In return, the endpoint provides a rating of good, marginal or poor for each hour. A spray window is then one or more periods of good conditions for spraying. Forecasted spray windows enables planning of operations to coincide with these suitable windows of spraying.