Web based IPM system for Japanese pear diseases in Japan II. Forecasting models for scab infection associated with **weather retrieval system.** Kei TANAKA⁽¹⁾, Matthew LAURENSON⁽¹⁾, Koji SUGAHARA⁽¹⁾, Tohru OHTANI⁽²⁾, Tomonari WATANABE⁽¹⁾, and Seisaku UMEMOTO⁽³⁾

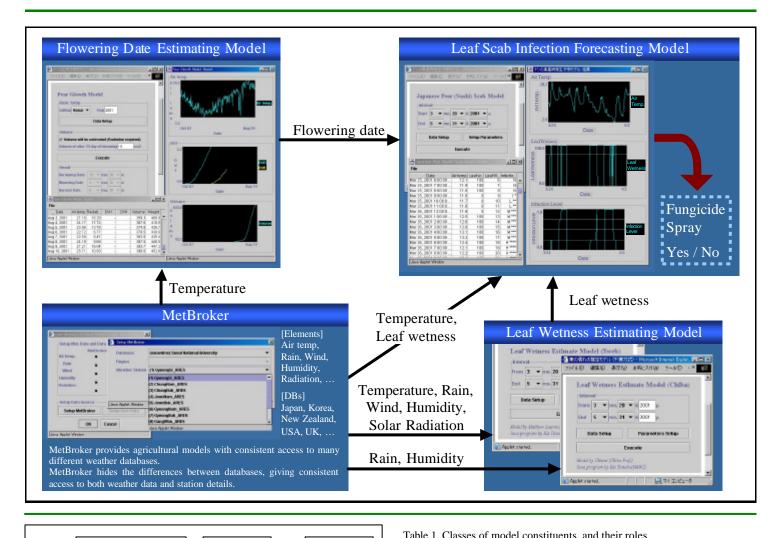
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INTRODUCTION

- 1 Two modek for decision making related to fungicide sprays against Japanese pear scab
 - 1.1 Flowering date estimating model: to time the first and most important fungicide application of the growing season 1.2 Leaf scab infection forecasting model
- 2 The models are written in Java, and can run on most computers' web browsers
- 3 MetBroker; middleware between DBs and models, is available as a weather data source



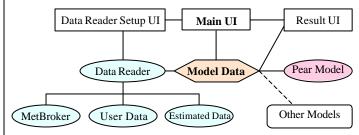


Fig2. Components of the model. Each name and color corresponds to Table 1.

Models: http://cse.naro.affrc.go.jp/ketanaka/model/

MetBroker: http://www.agmodel.net/MetBroker/

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Name	Role
Pear Model	Model Calculation
Model Data	Managing all data and parameters that a model treats.
Main UI (User Interface)	UI for performing the main operations.
Data Reader Setup UI	UI for data reader setup (eg. select DB)
Data Reader	Reading data according to a setup.
MetBroker	Reading data from MetBroker.
User Data	Reading user's original data.
Estimated Data	Estimating unavailable data using an estimating
	model and other data.
	eg. Rain, Humidity >> Leaf wetness
Result UI	UI that displays results as tables and charts.