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Managing Director Pessl Instruments

TURNING INFORMATION INTO PROFITS.



Pessl Instruments Over Time











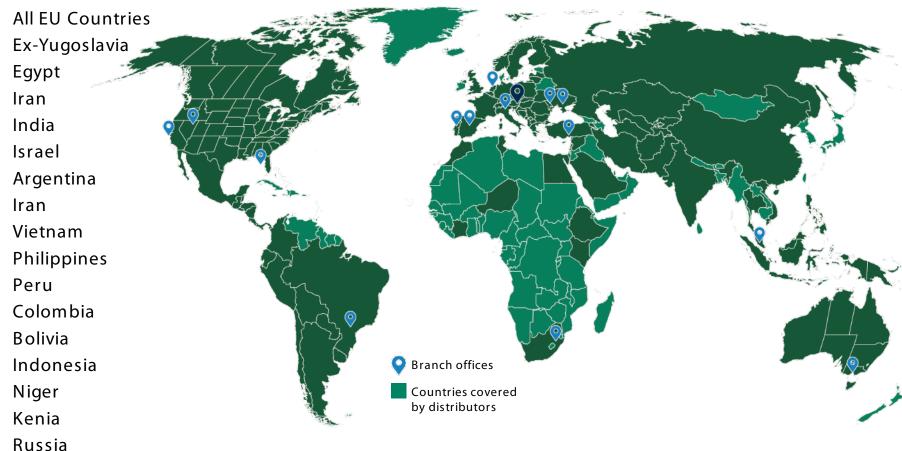


Experienced, Global, Successful!

REPRESENTATIONS DEALERS & AFTER-SALES SERVICE POINTS:

HEADQUARTERS:

Weiz, Austria



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AQUAGR

AGRIPRECISION (Morocco)

GEO PROSPECTORS
(Austria)

> 45.000 stations up & running

> 220.000 sensors connected

> 85 countries installed

> 105 people employed

Holistic solutions for smart agriculture



Pessi Instruments DSS Solutions

- In field Monitoring (Weather)
- Weather Forecast Modelling
- Disease Forecast Modelling
- Crop Monitor
- Insect Monitor
- Soil Moisture Monitor
- Soil Analyses
- Fertility Monitor
- Storage / Tank Monitoring
- GPS Work Tracking on machines

Active Alert/Automation

- Accident Warning System
- Frost warning systems
- Automation in Irrigation

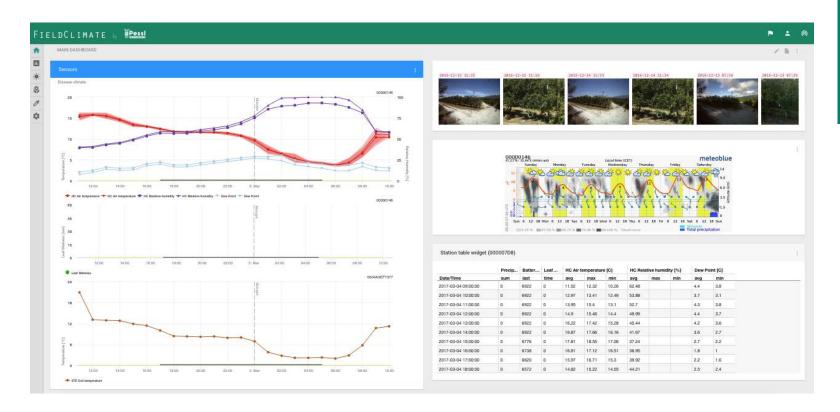
FieldClimate

We are experts in Climate monitoring for more than 30 years.



Hyper Localised Climate Monitoring





40 years of Weather data history licence available for any place.

CLIMATE CHANGE MANAGEMENT – LATE FROST PROTECTION









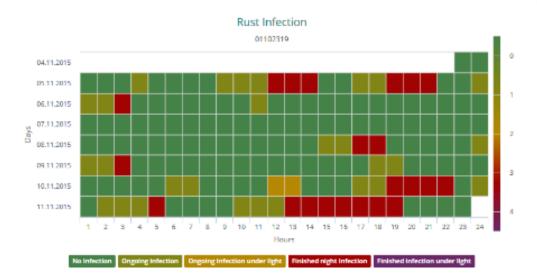
Critical temperature (T_c) values (°C) for grapevines			
		?	?
Grape (1)	New growth:		-1.1
	Woody vine:	-20.6	_
	French hybrids	-22.2	-23.3
	American		-27.8
		10% kill	90% kill
Grapes (cv. Concord) ⁽²⁾	First swell	-10.6	-19.4
	Late swell	-6.1	-12.2
	Bud burst	-3.9	-8.9
	First leaf	-2.8	-6.1
	Second leaf	-2.2	-5.6
	Third leaf	-2.2	-3.3
	Fourth leaf	-2.2	-2.8

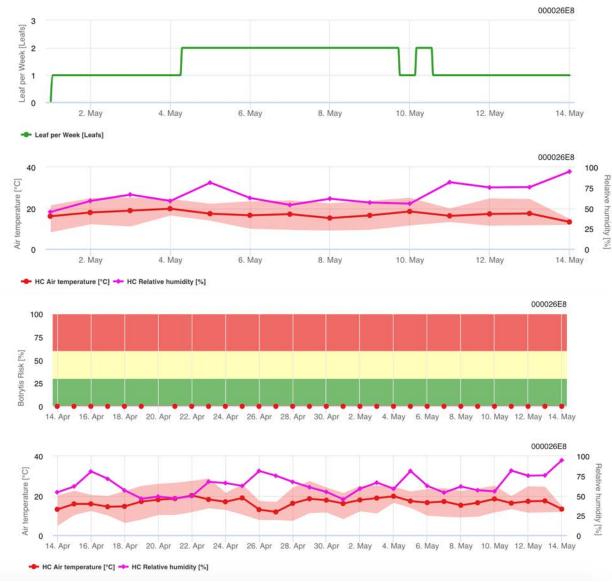




CROP HEALTH MANAGEMENT – DISEASE RISK MANAGEMENT





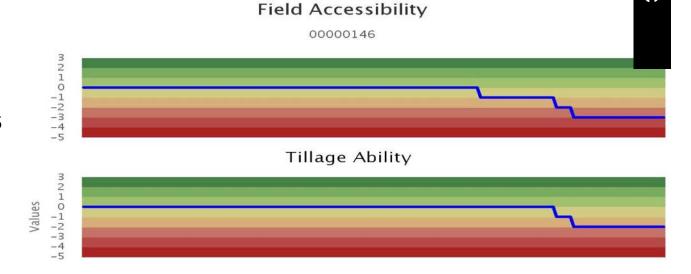


WHEN TO APPLY FERTILIZER:

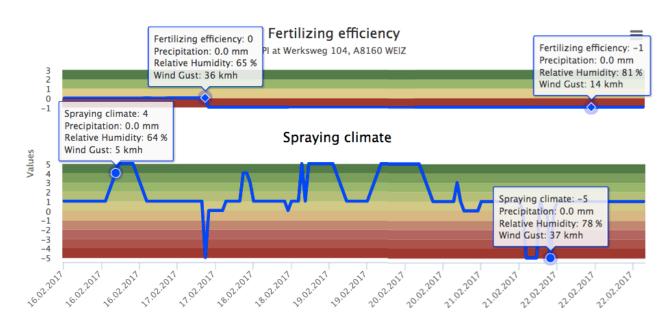
- Optimal is when after spreading follows 40 mm of rain, also 25 mm is good
- Bad is when no rain follows we can help with irrigation system
- With no rain fertilizer is not being diluted and the uptake to the plant isn't possible

WHEN TO SPRAY:

- If after a spray a rain follows (from 5 mm on), we can loose all the active compound to the ground
- Spraying should not be done if wind speed is more then 10 m/sec
- If after a spray there is a perdio of high RH more than 70 %, it takes longer to dry out the applied spray uptake to the plant is better



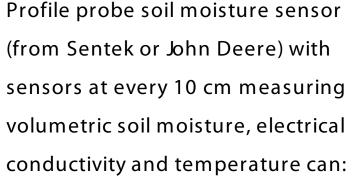
GISTIC



WATER MANAGEMENT - IRRIGATION/INPUT MONITORING



The weather station with temperature, humidity, rainfall, global radiation and wind speed is used to calculate the potential evapotranspiration (ET_0).

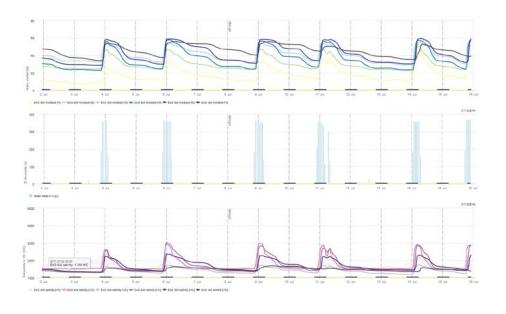


- Increase water use efficiency
- Improve fruit qulity
- Improve yield

A Holistic Solution for Irrigation Management





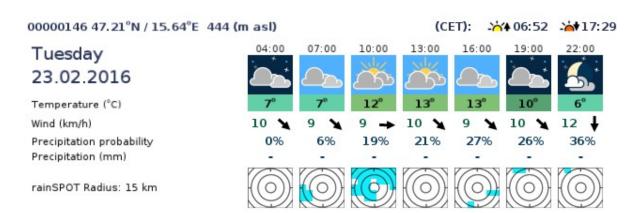


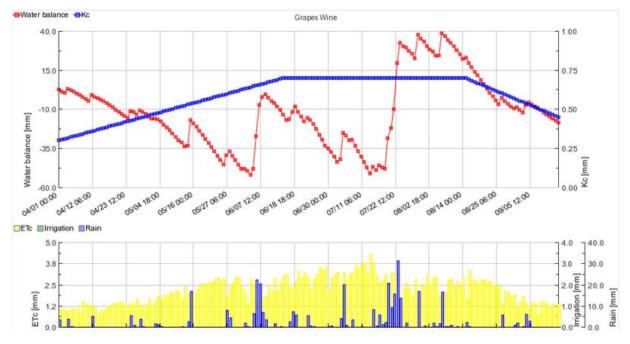
OPTIMAL WATER BALANCE









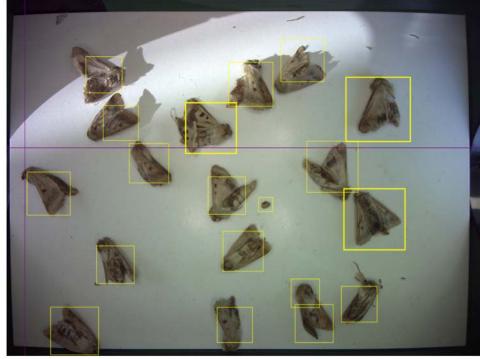


INSECT MANAGEMENT

Solutions based on automatic recognizion:

- Detection/Identification of insects
- Counting the insects and following growth of population
- Supporting decission when to start with spraying – alarm at certain treshold
- Monitoring distribution of insects at your fields















CROP MONITORING

The field camera shows the field conditions, growth of the crop, attacks of the birds and weather in the own fields remotely. It combines the documentation and permanent observation, weather data and other important data.



TURNING INFORMATION INTO PROFITS.



