



Manage your site data whenever, wherever.

Use this powerful tool as a central point for viewing and evaluating real-time data instantaneously for better decisions. SpecConnect can help improve yield and quality, conserve resources, increase profits and decrease risk by viewing current weather conditions and factors.

- Configure your network from your computer, smart phone, or tablet
- Easy and simple to navigate
- 100% customizable dashboard
- Supports multiple user logins
- Send customized alerts via text message or email
- Download your data for offline analysis
- Create custom reports and charts for full analyses of your data
- Map view allows you to see all station locations and current conditions
- Optional plant disease and insect models



SpecConnect Reporting Features

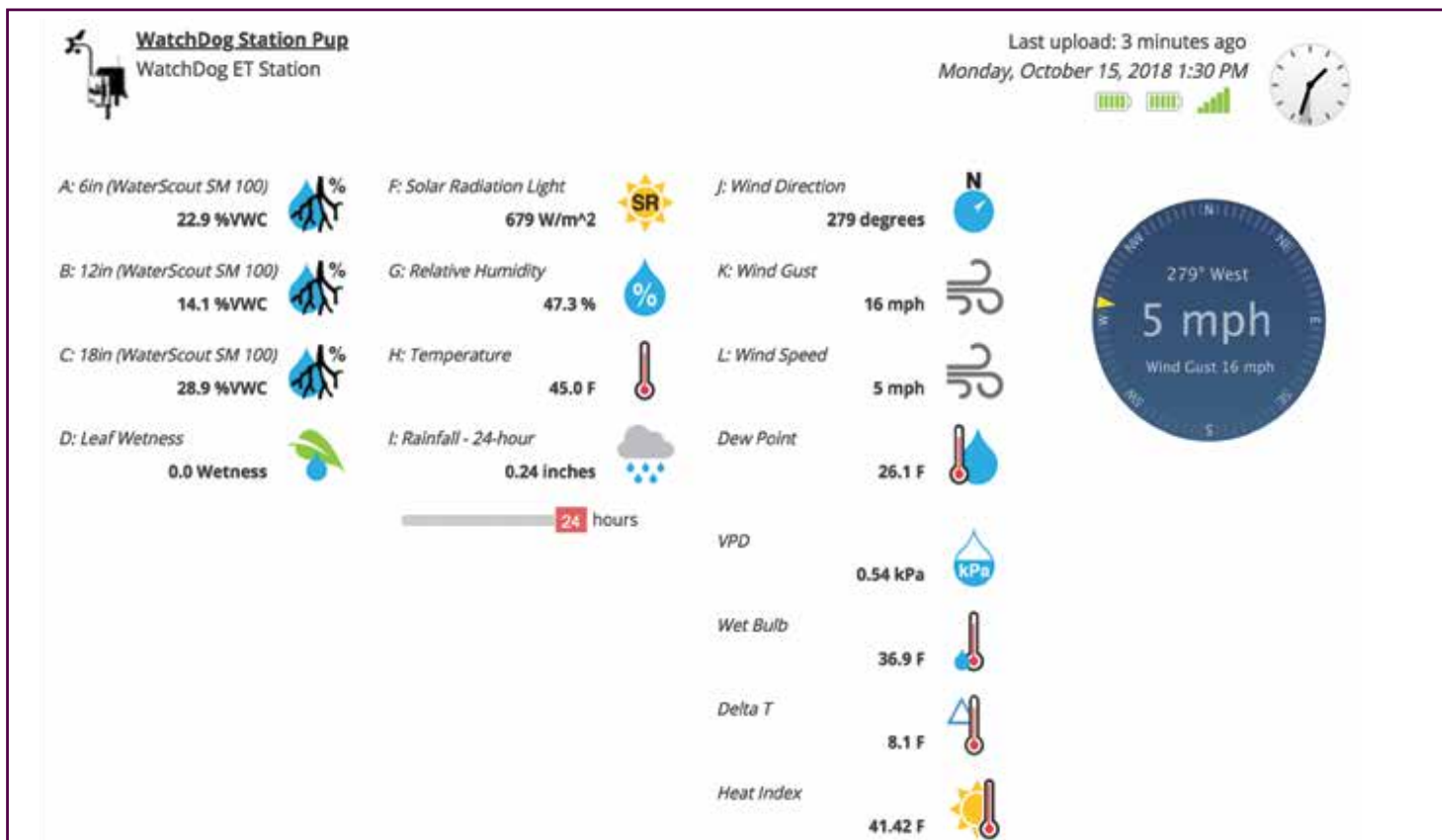
- Daily/Hourly
- Multi Station/Sensor
- Equipment Inventory & Activity
- Rainfall and Soil Moisture (product specific)
- And More!

SpecConnect Compatible Items

- WatchDog® Retriever & Pups
- WatchDog® 2000 Series Weather Stations
- WatchDog® 2000 Series Mini Station
- FieldScout® TDR350/150
- FieldScout® TruFirm® Turf Firmness Meter

Current Conditions At Your Fingertips

Example WatchDog Station Pup dashboard



Daily Report

- Track the key growing factors of temperature, humidity, and rainfall
- Generate formal reports for permanent records
- Flexible date selection for reports you need: week, month or growing season

Daily Report

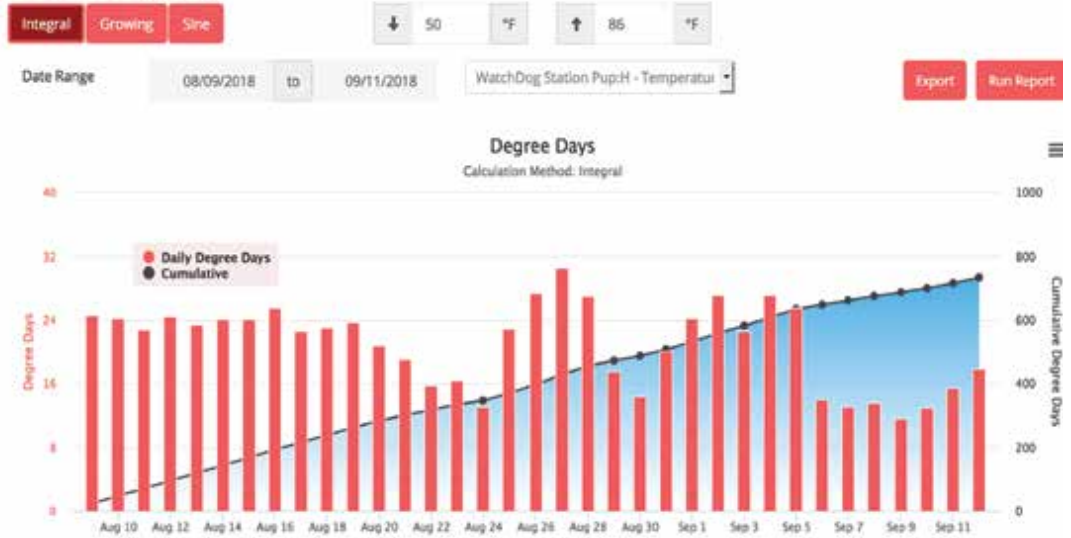
Date Range: 08/09/2018 to 09/11/2018 WatchDog Station Pup Export Run Report

Date	Temp High	Time @ Temp High	Temp Low	Time @ Temp Low	Temp Avg.	RH High	RH Low	RH Avg.	Daily Rainfall	Rainfall Cumulative
2018-09-11	80.80	4:30:00 pm	51.60	6:00:00 am	68.37	100.00	38.40	73.03	0.00	8.42
2018-09-10	77.50	3:30:00 pm	51.70	6:30:00 am	63.29	99.50	42.70	76.58	0.00	8.42
2018-09-09	70.70	2:00:00 pm	53.50	11:30:00 pm	61.90	93.40	44.10	68.47	0.00	8.42
2018-09-08	69.20	2:30:00 pm	58.90	12:30:00 am	63.75	89.50	59.00	70.17	0.00	8.42
2018-09-07	67.00	1:00:00 pm	59.40	11:30:00 pm	63.19	93.70	70.20	65.91	0.31	8.42
2018-09-06	68.70	12:00:00 am	59.90	11:00:00 pm	64.31	98.70	85.20	87.71	0.88	8.11
2018-09-05	87.90	1:30:00 pm	68.70	6:00:00 am	75.59	97.90	50.80	80.13	0.13	7.43
2018-09-04	90.50	2:30:00 pm	68.30	5:30:00 am	78.80	100.00	42.80	73.41	0.00	7.30
2018-09-03	83.40	1:30:00 pm	68.60	3:30:00 am	72.96	99.50	64.80	91.55	3.22	7.30
2018-09-02	88.70	3:00:00 pm	68.30	6:30:00 am	79.57	96.00	49.30	71.94	0.02	4.08
2018-09-01	88.00	4:30:00 pm	69.10	12:30:00 am	74.72	99.70	88.30	87.72	0.32	4.06
2018-08-31	84.70	4:30:00 pm	55.90	1:30:00 am	70.43	96.30	56.30	77.47	0.00	3.74

Degree Days Report

- Track plant growth stage through the growing season
- Use degree-days for pest management decisions, not the calendar
- Time the application of pesticide spray more effectively with degree day information
- Aids growers and researchers in tracking the development of plants and pests
- Project the growth and development of plants and insects during the growing season

Degree Days Report



Disease Models

- Monitor disease pressure based on field-tested and validated algorithms along with data collected by sensors on your field
- Reduce the number of pesticide applications when disease risk is low
- Models available for Apple/Pear, Grape, Cherry, Potato, Tomato, Nut, and Turf diseases

Disease Model Instance: Apple Scab

Model: Apple Scab Equipment: Watchdog Dates: 7/1/2018 to 7/19/2018 Export

Timestamp	Spore Mature Percent	Cornell Risk	Mills Risk	Calli Risk	Degree Day Sums	Mean Wet Temperature	Low Temperature	High Temperature	Degree Days	Leaf Wetness Hours
2018-07-01	1	None	None	None	46		63.80	64.90	45.85	.00
2018-07-02	2	Infected	None	None	89	70.27	66.40	64.60	43.48	6.92
2018-07-03	4	Infected	Medium	Infected	135	68.55	65.40	64.10	45.71	9.56
2018-07-04	7	Infected	Heavy	Infected	177	68.50	66.30	62.50	42.12	8.50
2018-07-05	10	Infected	Heavy	Infected	217	68.95	65.30	66.70	40.31	18.00
2018-07-06	17	Infected	Heavy	Infected	258	69.52	63.30	63.40	40.72	8.75
2018-07-07	22	None	None	None	292		65.00	79.90	33.72	.00
2018-07-08	27	None	None	None	324		48.60	81.60	31.83	.00
2018-07-09	34	None	None	None	361		51.00	60.20	37.40	.00
2018-07-10	42	None	None	None	403		57.50	68.70	42.04	.00

Rainfall Report

- Monitor rainfall throughout the growing season
- See the monthly rainfalls superimposed on the cumulative total in one place
- Click on Monthly bars to see daily rain events

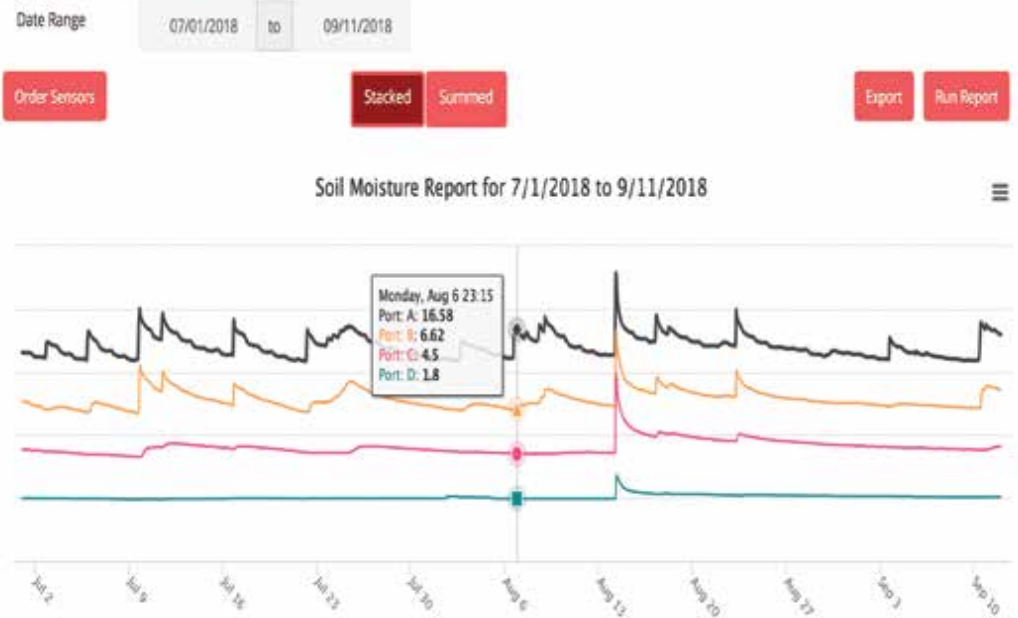
Rainfall Report



Soil Moisture Graph Report

- Maintain optimal levels of soilwater content in the root zone
- Avoid flushing nutrients beyond the bottom of the root zone
- Anticipate water stress by estimating water deficit
- Set the desired moisture thresholds based on your field needs and improve your irrigation efficiency

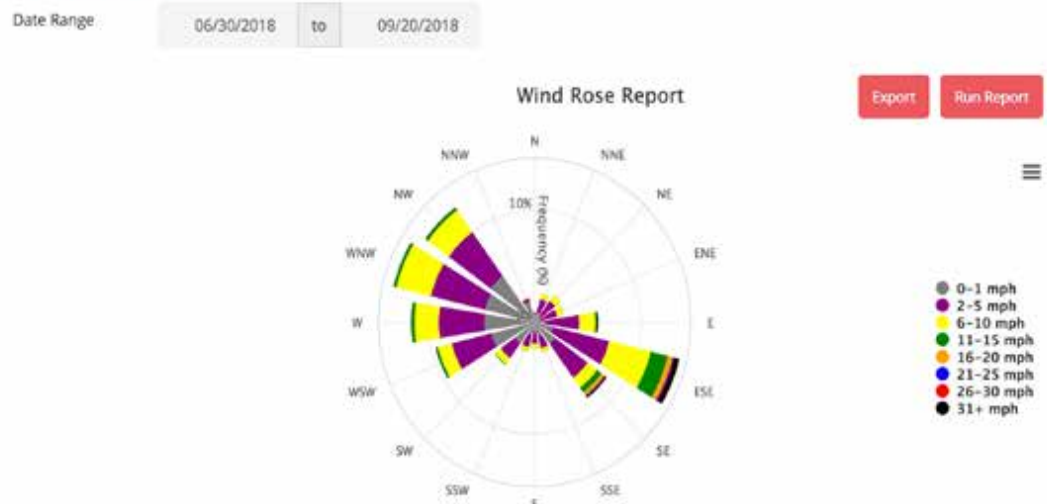
Soil Moisture Graph Report



Wind Rose Report

- Analyze and display distributions of wind speeds and directions at your locations
- Protect your plants from wind damage and adjust the direction of planting
- Anticipate soil erosion or deposition caused by intense and heavy wind
- Manage pesticide drift risk

Wind Rose Report





- Web Portal connection requires a WatchDog Retriever & Pup network or any 2000 Series Weather Station to collect and log data, and DataScout Modem to send data to the internet
- FieldScout subscriptions require a TDR or TruFirm Meter and the free FieldScout Mobile App
- For more information about the FieldScout Mobile App (see page 33)

Pro WatchDog Subscriptions

- 3030 SpecConnect Pro 1-yr Subscription - WiFi [or user-supplied SIM card and data plan]
- 3000 SpecConnect Initial Set Up Fee

Additional Devices and Services

- 3046 Additional WatchDog Device - Low-Cellular (1-yr) (15-60 minute, interval mean sensor values only)
- 3055 Additional WatchDog Device - WiFi (1-yr) [or user-supplied SIM card and data plan] Needed per Pup or Station
- 3040 Additional Login (1-yr) Limit of three users per subscription
- 3070 Alerts Function (1-yr) Up to 4 phone numbers and emails Needed per Pup or station
- 3065 API Service - (one-time-charge)

Pro FieldScout Subscriptions

- 3035A SpecConnect FieldScout Pro (1-yr) 1-3 devices
- 3035B SpecConnect FieldScout Pro (1-yr) 4-7 devices
- 3035C SpecConnect FieldScout Pro (1-yr) 8+ devices

SpecConnect WATCHDOG SUBSCRIPTION FEATURES

Customizable Dashboard	✓
Current Conditions	✓
Basic Wind Speed/Direction & Temp Gauges	✓
Advanced Wind Rose	✓
Data Storage	✓
Mapping	✓
Calibration Adjustment	✓
Disease Models (additional fee)	✓
Reports	
Basic Reporting	✓
Custom Reporting	✓
Evapotranspiration (ET) Reports	✓
Degree Days Reports	✓
Daily Light Integral (DLI) Reports	✓
Chill Hours/Units/Portions Reports	✓
Other	
Alerts (additional fee)	✓
API Service (additional fee)	✓

Disease & Insect Forecast Model Packages

1-YEAR SUBSCRIPTIONS

Be proactive in your management of diseases and insects by adding forecast models to your SpecConnect subscription

- Each package uses field-tested and validated algorithms along with your data to forecast the potential for the appearance of your crop's most notorious enemies
- Save money by spraying only when necessary
- Quickly produce the documentation needed to support your IPM decisions
- 1-year subscriptions

3095APP SpecConnect Apple/Pear Alert Package

Required Sensors: Leaf wetness and temperature
Models Included: Apple Scab (Modified Mills, Cornell, UC Davis California) Fire Blight (Maryblyt, Cougarblight) Sooty Blotch/Flyspeck Insect Models

3095CHP SpecConnect Cherry Alert Package

Required Sensors: Leaf wetness and temperature
Models Included: Leaf Spot Insect Models

3095GAP SpecConnect Grape Alert Package

Required Sensors: Leaf wetness, relative humidity, and temperature
Models Included: Powdery Mildew (Thomas-Gubler) Black Rot (Spotts) Downey Mildew Botrytis Phomopsis Cane Leaf Spot Insect Models

3095POP SpecConnect Potato Alert Package

Required Sensors: Temperature, relative humidity, and rain
Models Included: Early Blight Late Blight (BliteCast) Insect Models

3095TOP SpecConnect Tomato Alert Package

Required Sensors: Leaf wetness and temperature
Models Included: Tomcast Insect Models

3095TUP SpecConnect Turf Alert Package

Required Sensors: Air and soil temperature, relative humidity, and rain
Models Included: Brown Patch (Schumann) Pythium (Nutter, Schein) Dollar Spot (Hall, Mills/Rockwell) Insect Models

3095NUP SpecConnect Nut Alert Package

Required Sensors: Temperature, leaf wetness, relative humidity, rain
Models Included: Almond Alternaria Leaf Spot Almond Anthracnose Pecan Scab Pistachio Panicle and Shoot Blight Walnut Blight Insect Models