# Speedwell Weather



# **Company Introduction**

## Environmental Finance

Annual Market Rankings

Winners: 2007-2015

Best Advisory/Data Service

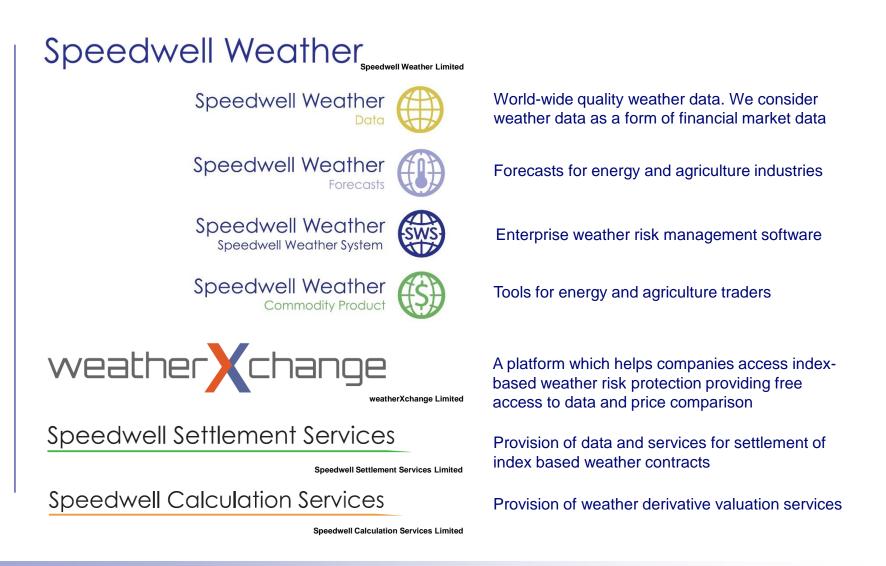


Best Global Weather Risk Management Advisory / Data Service Winner for 10 years

### www.speedwellweather.com

- Independent, company providing weather services since 1999 owned by its senior employees
- Offices in the United Kingdom and the United States
- Our origins lie in index-based weather risk management: emphasis on quality
- · Major provider of quality weather data and forecasts world-wide
- Major provider of software to the weather derivative industry for pricing and portfolio management: the Speedwell Weather System, SWS, since 2002
- Major provider of Settlement Data and Calculation Services for weather risk contracts
- Serving over 100 clients in insurance, weather derivatives, banking, energy and agriculture sectors world-wide
- weatherXchange Limited, FCA regulated subsidiary providing the weatherXchange<sup>®</sup> Platform which helps companies access index-based weather risk protection





# **Speedwell Weather Quality Weather Data**





Panama

We carry tens of thousands of historical weather data sets from around the world.

We quality-control thousands of data sets every day.

We are the major settlement agent for over-the-counter weather risk contracts around the world.

Speedwell SuperPack® makes available an unprecedented range of guality historical weather data and weather data feeds for a single annual fee.

### **Speedwell Cleaned Data**

Cleaned data is data that has been processed to fill missing values and correct erroneous observations. The end result is a data set that is ready to be used for analysis. We clean weather data from thousands of weather stations every day.

Speedwell's proprietary cleaning methodologies use a mixture of automated processing to flag possible errors followed by manual inspection.

### **Speedwell Recalibrated Data**

Recalibrated Data is an adjusted historic temperature time series which has been re-based to take into account discontinuities such as those arising from site moves or instrument changes. Recalibrated data is the best possible baseline for risk analysis and weather risk contract pricing

### **Speedwell Gridded Data**

Dozens of gridded data sets including proprietary wind speed data sets calibrated to required mast height.

Albania Greece Algeria Greenland Antarctica Guatemala Antiqua Honduras Argentina Hong Kong Armenia Hungary Aruba India Australia Indonesia Austria Iran Bangladesh Ireland Barbados Israel Belarus Italy Belgium Jamaica Belize Japan Benin Kazak. Bolivia Kenya Bosnia Korea S. Botswana Latvia Brazil Lebanon Bulgaria Liechtenst'n Burkina Faso Lithuania Canada Lux. Cape Verde Macedonia Chile Malaysia China Maldives Mali Columbia Croatia Malta Cyprus Mauritania Czech R. Mauritius Mexico Denmark Dominican Moldova Egypt Mongolia Estonia Montenegro Ethiopia Morocco Faroe Isles Netherlands Finland New Zeal. France Niger Georgia Nigeria Germany Norway Gibraltar Oman

Pakistan Paraguay Philippines Poland Portugal **Puerto Rico** Romania Russia Saudi Ar. Senegal Serbia Singapore Slovakia Slovenia S. Africa Spain Sri Lanka Syria Sweden Switz. Taiwan Tajikistan Tanzania Thailand Togo Trinidad Tunisia Turkey Turkmenist' UK Ukraine Uruguay USA Uzbekistan Vietnam Zambia Zimbabwe









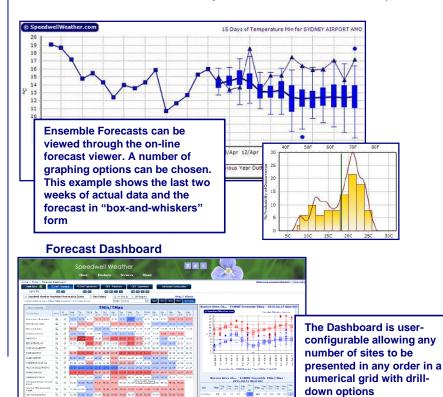
# **Speedwell Weather Forecast Products**



#### Speedwell Site-Specific Ensemble Forecasts

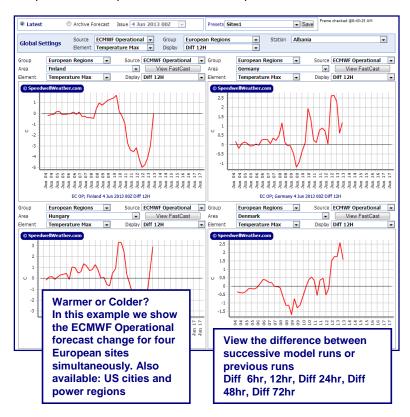
Downscaled site-specific ensemble forecasts for both single sites and weighted baskets are available for over 3,000 sites across the world covering 15-day and monthly periods.

The ensemble forecast is a fully downscaled **probabilistic** forecast which inherently captures information that is normally lost in a traditional deterministic forecast: the uncertainty of the forecast at each time step.



#### FastCast<sup>®</sup> Forecasts

Ultra-fast graphical representation of the change in forecast from the previous run. Updated as each time step becomes available.



#### WDD: U.S. Weighted Degree Days

Uses weather data and forecasts combined with regional population data to estimate the EIA natural gas storage and withdrawal statistics.



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|                |   |  |  |  |   |   | _   |   | 1111e   |  | La   | stest Runs (           | ECMWF Ensemble   | ECMWF Operationa  |   | S Ensemble<br>0012 022 01  |   | GFS Operat  |   | Com  | Notarty Thom   | me World   |                      |
|----------------|---|--|--|--|---|---|---|---|---|--|--|------------------------|--|---|---|--|---|---|---|--|--|--|----------------------|
| Pe             | edwell We   | ather  | -  |  |   |   | r Q   |   |   |  |  |                        | Showing => Down  |   |   |  |   |   |   |  | 100  |  | Name                 |
|                |   | unio   |  |  |   | Track 1   |   |   | A CONTRACT                                      |  |  |                        | serve and serve  |   |   |  |   |   |   | - 24   |  |  | Latitude<br>Longitud |
| me             | Products  | Services   | s Abo  | ut   |   |   |   | 1   | a gila  |  |  |                        | Monitor Type   |   |   | <ul> <li>Actual</li> </ul>   |   |   | Normai  | Percen Last 15   | tage   |  | 4.00                 |
|                |   |  |  | are and  |   |   |   |   | 1   |  | Commodity  | Region                 | Station  | Last 9<br>Days  | Days  | Last 30 Last<br>Days Da  | ys Days   | 7 Forecast<br>7 Days  | Forecast<br>All Days  | days<br>data + To  | ols Precip<br>Fcast  | Temp Fas<br>Fcast Cast   | st <sup>®</sup> Year |
| > T            | Fools > Commodity Prod  | duct   |  |  |   |   | Welcon  | ne speedwel   | badmin   [                                      | log out]   | Barley<br>Citrus   |                        | Argentina Corn Index   | 217.  | 183.3   | 108.9  | .2 54.6   | 7.6   | 25.7  | 115.0  | e 🕰  | 1944   | الارز                |
| edwe           | Il Commodity Product pro  | ovides latest his  | storical and for   | recast weathe  | er data for key   | crop regions wo   | orldwide. 12 u  | updates per da  | ay using ECM                                    | IWF  | Cocoa  |                        | Brazil Corn Index  | 311.0   | 253.6   | 114.7 8  | 1.0 38.3  | 31.6  | 51.8  | 145.4  |  | 7944   | الحبل                |
| GFS            | forecast models.  |  |  |  |   |   |   |   |   |  | Coffee   |                        | Bulgaria Corn Index  | 221.  | 145.3   | 63.6 5   | .7 0.0  | 5.3   | 10.0  | 54.1 🎽   |  | 1924   | J.F                  |
|                |   |  |  |  |   | Map Satellite   | (   | Getting Start   | ted Male  |  | Corn   | Argentina              | Canada Corn Index  | 221.0   | 127.7   | 56.4 2   | 1.6 11.2  | 2 10.5  | 19.1  | 42.7   | 2  | 1944   | الحبل ا              |
| ~              |   |  |  |  |   | Map Satenite  |   | Getting start   | ted Help.                                       |  |  | Brazil<br>Bulgaria     | China Corn Central Inde  | × 245.  | 150.6   | 25.8 5   | .1 1.1  | 0.5   | 2.2   | 7.3 🎽  |  | 1949   | 8                    |
| ~>             |   |  |  |  |   |   |   | Cattle  | Cattle  |  |  | Canada                 | China Corn North Index   | 127.  | 40.9  | 10.5 4   | .9 1.5  | 1.2   | 2.7   | 7.6  | 2  | 1944   | 3                    |
| Y              |   |  |  |  |   |   | Barley  |   | (Dairy)   | Citrus   |  | China                  | China Corn South Index   | 404.1   | 261.1   | 88.4 6   | 26.9  | 8.4   | 15.6  | 83.7   | 6  | 144  | <i>w</i>             |
|                |   |  |  |  |   | - 100   |   |   |   |  |  | Central<br>China North | France Corn Index  | 197.  | 141.2   | 87.6 3   | .9 37.0   | 22.1  | 35.9  | 75.9   | 2  | 2544   | 1                    |
| •              | as the  |  |  |  |   | and the   | Cocoa   | Coffee  | Corn  | Cotton   |  | China South            | Germany Corn Index   | 214.  | 126.7   | 72.7 1   | 5.0 12.0  | 8.8   | 18.6  | 34.6   | 2  | 1944   | فنز                  |
| +              |   |  |  |  |   | 1   |   |   |   |  |  | France                 | Hungary Corn Index   | 244.  | 175.3   | 81.7 3   | 2.4   | 7.7   | 15.7  | 25.0   |  | 7944   | الحبل ا              |
| i i            |   | 1 2  |  |  | Cash Victory  | Sec. 12   | Hogs  | Nuts and  | Oats P  | alm Oil  |  | Germany                | India Corn Index   | 380.  | 179.1   | 69.2 21  | 8.2 0.1   | 14.4  | 16.9  | 44.6   | 2  | 2524   | 1                    |
| 4 Res          |   | 1 105  | and a  |  | Level C   | 1. A B  |   | fruits  |   |  |  | Hungary<br>India       | Italy Corn Index   | 230.  | 152.4   | 87.6 4   | 5.8 46.7  | 43.8  | 60.9  | 110.1  | 6  | 1944   | ننز                  |
| 12             | 1 AS  | Star Press   | - ¥ .  | 1225   | A The second second   | 20 10 -   |   | Rapeseed  |   |  |  | Italy                  | Poland Corn Index  | 185.3   | 5 101.2   | 43.1 1   | .4 0.7  | 7.0   | 14.1  | 18.7   | e 🕰  | 1944   | ننز                  |
|                |   | ASIA   | the year's   | 1 30   |   |   | Potatoes  | / Canola  | Rice  | Rye  |  | Poland                 | Romania Corn Index   | 175.  | 5 120.8   | 56.1 3   | 1.5 0.0   | 6.0   | 11.9  | 27.6   | 2  | 1944   | j.                   |
|                |   | and see  |  |  | NOR   | Deft.   |   |   |   | $\equiv$   |  | Romania                | Russia Corn Index  | 97.7  | 76.8  | 42.5 1   | 0.1 5.1   | 2.2   | 6.2   | 16.6   |  | 7944   |                      |
|                | Atlantic  |  | 185  |  | AMERIC  | Atlantic  | Shipping<br>Ports   | Sorghum S   | Soybean   | Sugar<br>Beet  |  | Russia<br>Serbia       | Serbia Corn Index  | 211.0   | 148.5   | 57.0 1   |   | 6.5   | 13.4  | 14.9   | 2  | 25/4   |                      |
|                | Atlantic<br>Ocean   |  |  |  | No.   | Atlantic<br>Dcean   |   |   |   | beer   |  | Serbia<br>South Africa | South Africa Corn Inde   | 57.7  | 52.5  | 47.8 3   | .8 30.2   | 18.5  | 29.5  | 67.8   |  | 794  |                      |
|                |   |  |  |  |   |   |   |   |   |  |  |                        |  |   |   |  |   |   |   |  |  |  |                      |
|                | AFRICA  | F X 3  |  | EN   |   | (Days)  | Suparcane   | Supflower   |   | Wheat  |  | Spain                  | Spain Corn Index   | 165.3   | 5 148.2   | 96.8 3   | 5.1 35.1  | 19.4  | 36.1  | 72.7   | 2  | 1944   | ليتر                 |
|                | AFRICA  |  | di se  |  | ~   |   | Sugarcane   | Sunflower   |   | Wheat<br>Spring)   |  | Spain<br>Ukraine ,     | V Vkraine Corn Index   | 165.:   |   |  | 5.1 35.1<br>.1 0.0  |   | 36.1<br>7.1   | 72.7 🕌<br>9.4  |  | 1948<br>1948 (A)   |                      |
| -              | AFRICA  | Indian<br>Ocean  |  | Pacific<br>Ocean   |   | 2   |   |   |   |  |  |                        |  |   |   | 20.4 5   |   | 1.6   |   |  |  |  |                      |
| -              |   | indian<br>Ocean  |  | Pacific  | ~   | 9   | Sugarcane<br>Wheat<br>(Winter)  | Sunflower T   |   |  |  |                        | Ukraine Corn Index   | 98.3  | 64.8<br>6.8   | 20.4 5   | .1 0.0  | 1.6<br>0.1  | 7.1   | 0.4  |  |  |                      |
| -              |   | indian<br>Ocean  |  | Pacific<br>Ocean   |   | 8   | Wheat   | Wheat   |   |  |  |                        | Ukraine Corn Index     US Corn (Delta) Index   | 98.3  | 64.8<br>0.8<br>6.4  | 20.4 5<br>3.7 1<br>2.1 0   | .1 0.0  | 1.6<br>0.1<br>0.2   | 7.1<br>0.5  | 9.4 🖉  |  |  |                      |
| -              |   | Indian<br>Ocean  |  | Pacific<br>Ocean   |   | Report a map error  | Wheat   | Wheat   |   |  |  |                        | v Ukraine Corn Index<br>US Corn (Delta) Index<br>US Corn (East) Index  | 98.3<br>0.8<br>10.8   | 64.8<br>0.8<br>6.4<br>4.8   | 20.4     5       3.7     1       2.1     0       1.4     0   | .1 0.0<br>.1 0.6<br>.7 0.5  | 1.6<br>0.1<br>0.2<br>0.2  | 7.1<br>0.5<br>0.5   | 9.4 2<br>1.6 2<br>1.2 2  |  |  |                      |
| oogle          | <b>9</b> V  | Indian<br>Ocean  | 90   | Pacific  | Terms of Use  | 1   | Wheat   | Wheat   |   | Spring)  |  |                        | v Ukraine Corn Index<br>US Corn (Delta) Index<br>US Corn (East) Index<br>US Corn (West) Index  | 98.3<br>9.8<br>10.8<br>9.9  | 64.8<br>6.8<br>6.4<br>4.8<br>5.6  | 20.4     5       3.7     1       2.1     0       1.4     0       1.7     0   | .1 0.0<br>.1 0.6<br>.7 0.5<br>.2 0.1<br>.4 0.2  | 1.6<br>0.1<br>0.2<br>0.2<br>0.2   | 7.1  <br>0.5  <br>0.5  <br>0.4  | 0.4 ()<br>1.6 ()<br>1.2 ()<br>0.5 ()<br>0.8 ()   |  |  |                      |
| oogle          |   | Indian<br>Ocean  | Posted On 🔹  | 1  | Terms of Use  | 1   | Wheat   | Wheat   |   |  |  |                        | v Ukraine Corn Index<br>US Corn (Delta) Index<br>US Corn (East) Index<br>US Corn (West) Index<br>US Corn Index   | 98.3<br>9.8<br>10.8<br>9.0<br>10.5<br>10.5  | 64.8<br>6.8<br>6.4<br>4.8<br>5.6  | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0   | .1 0.0<br>.1 0.6<br>.7 0.5<br>.2 0.1<br>.4 0.2  | 1.6<br>0.1<br>0.2<br>0.2<br>0.2   | 7.1  <br>0.5  <br>0.4  <br>0.4  | 0.4 ()<br>1.6 ()<br>1.2 ()<br>0.5 ()<br>0.8 ()   |  | 1000           1000           1000           1000           1000           1000           1000           1000           1000 |                      |
| oogle          | Commodity<br>Wheat (Winter) -   | Index Type   | Posted On 🔹  | 1  | Terms of Use<br>Title<br>Australia  | Report a map error  | Wheat<br>(Winter)   | Wheat<br>Durum  |   | Details  |  |                        | Viraine Corn Index     Viraine Corn Index     Viraine Corn Index     Viraine Corn Index     Viraine Corn (West) Index     Uir Corn Index     Viraine Corn Index     Standard Deviation from  | 98.3<br>9.8<br>10.8<br>9.0<br>10.5<br>10.5  | 64.8<br>6.8<br>6.4<br>4.8<br>5.6  | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0   | .1 0.0<br>.1 0.6<br>.7 0.3<br>.2 0.1<br>.4 0.2<br>the mean d  | 1.6<br>0.1<br>0.2<br>0.2<br>0.2   | 7.1  <br>0.5  <br>0.4  <br>0.4  | 0.4 (2)<br>1.0 (2)<br>1.2 (2)<br>0.5 (2)<br>0.8 |  |  |                      |
| oogle          | Commodity   | 1  | Posted On 🔹  | Туре   | Terms of Use  | Report a map error  | Wheat<br>(Winter)   | Wheat<br>Durum  | Level   | Spring)  |  | Ukraine                | V Ukraine Corn Index<br>US Corn (Delta) Index<br>US Corn (East) Index<br>US Corn (West) Index<br>US Corn Index<br>Standard Deviation from  | 98.3<br>9.8<br>10.8<br>9.0<br>10.5<br>10.5  | 64.8<br>6.8<br>6.4<br>4.8<br>5.6  | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0   | .1 0.0<br>.1 0.6<br>.7 0.3<br>.2 0.1<br>.4 0.2<br>the mean d  | 1.6<br>0.1<br>0.2<br>0.2<br>0.2   | 7.1  <br>0.5  <br>0.4  <br>0.4  | 0.4 (2)<br>1.0 (2)<br>1.2 (2)<br>0.5 (2)<br>0.8 |  |  |                      |
| oogle          | Commodity<br>Wheat (Winter) -<br>Australia Was<br>Rapessed / Canola -   | Index Type Precipitation Mean  | Posted On •<br>17-Aug-15   | Type<br>Data Alert   | Terms of Use<br>Title<br>Australia<br>Winter<br>Wheat<br>Canada   | Report a map error Summary Conditions have  | Wheat<br>(Winter)   | Wheat<br>Durum  | Level   | Details  | Michael Paras and  | Ukraine                | Viraine Corn Index     Viraine Corn Index     Viraine Corn Index     Viraine Corn Index     Viraine Corn (West) Index     Uir Corn Index     Viraine Corn Index     Standard Deviation from  | 98.3<br>9.8<br>10.8<br>9.0<br>10.5<br>10.5  | 64.8<br>6.8<br>6.4<br>4.8<br>5.6  | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0   | .1 0.0<br>.1 0.6<br>.7 0.3<br>.2 0.1<br>.4 0.2<br>the mean d  | 1.6<br>0.1<br>0.2<br>0.2<br>0.2   | 7.1  <br>0.5  <br>0.4  <br>0.4  | 0.4 (2)<br>1.0 (2)<br>1.2 (2)<br>0.5 (2)<br>0.8 |  |  |                      |
| oogle          | Commodity<br>Wheat (Winter) -<br>Australia Weat   | Index Type<br>Precipitation  | Posted On •<br>17-Aug-15   | Туре   | Terms of Use<br>Title<br>Australia<br>Winter<br>Wheat   | Report a map error  | Wheat<br>(Winter)   | Wheat<br>Durum  | Level   | Details  |  | Ukraine                | V Ukraine Corn Index<br>US Corn (Delta) Index<br>US Corn (East) Index<br>US Corn (West) Index<br>US Corn Index<br>Standard Deviation from  | 98.3<br>9.8<br>10.8<br>9.0<br>10.5<br>10.5  | 64.8<br>6.8<br>6.4<br>4.8<br>5.6  | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0   | .1 0.0<br>.1 0.6<br>.7 0.3<br>.2 0.1<br>.4 0.2<br>the mean d  | 1.6<br>0.1<br>0.2<br>0.2<br>0.2   | 7.1  <br>0.5  <br>0.4  <br>0.4  | 0.4 (2)<br>1.0 (2)<br>1.2 (2)<br>0.5 (2)<br>0.8 |  |  |                      |
| rning          | Commodity<br>Wheat (Winter)<br>Australia Wase<br>Rapeseed / Canola -<br>Canola  | Index Type<br>Precipitation<br>Mean<br>Temperature   | Posted On +<br>17-Aug-15<br>17-Aug-15  | Type<br>Data Alert<br>Data Alert   | Terms of Use<br>Title<br>Australia<br>Winter<br>Wheat<br>Canada<br>Canola<br>Brazil   | Report a map error<br>Summary<br>Conditions have<br>Weekend frost ri  | turned drier a  | Wheat<br>Durum<br>again<br>areas  | Level<br>MED<br>MED                             | Details  |  | Ukraine                | V Ukraine Corn Index<br>US Corn (Delta) Index<br>US Corn (East) Index<br>US Corn (West) Index<br>US Corn Index<br>Standard Deviation from  | 98.3<br>9.8<br>10.8<br>9.0<br>10.5<br>10.5  | 64.8<br>6.8<br>6.4<br>4.8<br>5.6  | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0   | .1 0.0<br>.1 0.6<br>.7 0.3<br>.2 0.1<br>.4 0.2<br>the mean d  | 1.6<br>0.1<br>0.2<br>0.2<br>0.2   | 7.1  <br>0.5  <br>0.4  <br>0.4  | 0.4 (2)<br>1.0 (2)<br>1.2 (2)<br>0.5 (2)<br>0.8 |  |  |                      |
| rning          | Commodity<br>Wheat (Winter) -<br>Australia Was<br>Rapessed / Canola -   | Index Type Precipitation Mean  | Posted On +<br>17-Aug-15<br>17-Aug-15  | Type<br>Data Alert   | Terms of Use<br>Title<br>Australia<br>Winter<br>Wheat<br>Canada<br>Canola   | Report a map error Summary Conditions have  | turned drier a  | Wheat<br>Durum<br>again<br>areas  | Level<br>MED<br>MED                             | Details  | A  | Ukraine                | V Ukraine Corn Index<br>US Corn (Delta) Index<br>US Corn (East) Index<br>US Corn (West) Index<br>US Corn Index<br>Standard Deviation from  | 98.3<br>9.8<br>10.8<br>9.0<br>10.5<br>10.5  | 64.8<br>6.8<br>6.4<br>4.8<br>5.6  | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0   | .1 0.0<br>.1 0.6<br>.7 0.3<br>.2 0.1<br>.4 0.2<br>the mean d  | 1.6<br>0.1<br>0.2<br>0.2<br>0.2   | 7.1  <br>0.5  <br>0.4  <br>0.4  | 0.4 (2)<br>1.0 (2)<br>1.2 (2)<br>0.5 (2)<br>0.8 |  |  |                      |
| oogle<br>rning | Commodity<br>Wheat (Winter) -<br>Australia Viesa<br>Rapeseed / Canola -<br>Canada<br>Wheat (Winter) - Brazil  | Index Type<br>Precipitation<br>Mean<br>Temperature<br>Precipitation  | Posted On •<br>17-Aug-15<br>17-Aug-15<br>14-Aug-15   | Type<br>Data Alert<br>Data Alert<br>Data Alert   | Terms of Use<br>Title<br>Australia<br>Winter<br>Wheat<br>Canada<br>Canola<br>Brazil<br>Winter<br>Wheat  | Report a map error<br>Summary<br>Conditions have<br>Weekend frost ri<br>Mostly dry weath  | Whest<br>(Winter)   | Wheat<br>Durum<br>again<br>areas<br>p development   | Level<br>MED<br>MED                             | Details  | JA   | Ukraine                | V Ukraine Corn Index<br>US Corn (Delta) Index<br>US Corn (East) Index<br>US Corn (West) Index<br>US Corn Index<br>Standard Deviation from  | 98.3<br>9.8<br>10.8<br>9.0<br>10.5<br>10.5  | 64.8<br>6.8<br>6.4<br>4.8<br>5.6  | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0   | .1 0.0<br>.1 0.6<br>.7 0.3<br>.2 0.1<br>.4 0.2<br>the mean d  | 1.6<br>0.1<br>0.2<br>0.2<br>0.2   | 7.1  <br>0.5  <br>0.4  <br>0.4  | 0.4 (2)<br>1.0 (2)<br>1.2 (2)<br>0.5 (2)<br>0.8 |  |  |                      |
| oogle<br>rning | Commodity<br>Wheat (Winter)<br>Australia Wase<br>Rapeseed / Canola -<br>Canola  | Index Type<br>Precipitation<br>Mean<br>Temperature   | Posted On •<br>17-Aug-15<br>17-Aug-15<br>14-Aug-15   | Type<br>Data Alert<br>Data Alert   | Terms of Use<br>Title<br>Australia<br>Winter<br>Wheat<br>Canada<br>Canada<br>Brazil<br>Winter   | Report a map error<br>Summary<br>Conditions have<br>Weekend frost ri  | Whest<br>(Winter)   | Wheat<br>Durum<br>again<br>areas<br>p development   | Level<br>MED<br>MED<br>MED                      | Details  |  | Ukraine                | Ukrains Carn Index<br>Ukrains Carn   | 98.3<br>9.8<br>10.8<br>9.0<br>10.5<br>10.5  | 64.8<br>6.8<br>6.4<br>4.8<br>5.6  | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0   | .1 0.0<br>.1 0.6<br>.7 0.3<br>.2 0.1<br>.4 0.2<br>the mean d  | 1.6<br>0.1<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2   | 7.1 0.5 0.5 0.5 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4   | 0.4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |  |  |                      |
| oogle<br>rning | Commodity<br>Wheat (Winter) -<br>Australia Was<br>Rapessed / Canola -<br>Canada<br>Wheat (Winter) - Brazil<br>Sunflower - Russia<br>(South)   | Index Type<br>Precipitation<br>Mean<br>Temperature<br>Precipitation<br>Precipitation                                   | Posted On •<br>17-Aug-15<br>14-Aug-15<br>14-Aug-15   | Type<br>Data Alert<br>Data Alert<br>Data Alert<br>Forecast<br>Alert                      | Terms of Use<br>Title<br>Australia<br>Winter<br>Wheat<br>Canada<br>Canola<br>Brazil<br>Winter<br>Wheat<br>Russia<br>Sunflower   | Report a map error<br>Summary<br>Conditions have<br>Weekend frost ri<br>Mostly dry weath<br>Rain and cooler I<br>stress   | Wheat<br>(Winer)<br>turned drier a<br>isk in western<br>her favors crop<br>temperatures   | Wheat<br>Durum<br>again<br>areas<br>p development<br>may ease crop                                  | Level<br>MED<br>MED                             | Details<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constan   |  | Ukraine                | Microsoft Care Index<br>US Care (Care) Index<br>US Care (Care) Index<br>US Care (Care) Index<br>US Care (Vari) Index<br>US Care (Vari) Index<br>US Care (Vari) Index<br>US Care I | 99.3<br>99.3<br>99.5<br>90.0<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>1 | 64.8<br>6.8<br>6.4<br>4.8<br>3.6<br>vual to the c<br>< -0.2   | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0<br>diference from<br>to h   | 1         0.0           1         0.6           7         0.5           2         0.1           .4         0.2           the mean d         ormal           0         0   | 1.6     0.1     0.2     0.2     0.2     0.2     0.2     0.3     0.4     0.5   | 7.1<br>0.5<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4  | 0.4         2           1.0         2           0.5         2           0.5         2           0.6         2           0.5         2           0.6         2           0.7         2           0.8         2           0.9  | land, Jack State, Sa<br>La Persian (Prij<br>2014)  |  |                      |
| rning          | Commodity<br>Wheat (Winter) - Anaula<br>Rapessed / Canola -<br>Canada<br>Wheat (Winter) - Brazil<br>Sunflower - Russia  | Index Type<br>Precipitation<br>Mean<br>Temperature<br>Precipitation  | Posted On •<br>17-Aug-15<br>14-Aug-15<br>14-Aug-15   | Type<br>Data Alert<br>Data Alert<br>Data Alert<br>Forecast                               | Terms of Use Title Australia Winter Wheat Canada Canola Brazil Winter Wheat Russia  | Report a map error<br>Summary<br>Conditions have<br>Weekend frost ri<br>Mostly dry weath<br>Rain and cooler   | Wheat<br>(Winer)<br>turned drier a<br>isk in western<br>her favors crop<br>temperatures   | Wheat<br>Durum<br>again<br>areas<br>p development<br>may ease crop                                  | Level<br>MED<br>MED                             | Details  |  | Ukraine                | Microsoft Care Index<br>US Care (Care) Index<br>US Care (Care) Index<br>US Care (Care) Index<br>US Care (Vari) Index<br>US Care (Vari) Index<br>US Care (Vari) Index<br>US Care I | 99.3<br>99.3<br>99.5<br>90.0<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>10.5<br>1 | 64.8<br>6.8<br>6.4<br>4.8<br>5.6  | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0<br>diference from<br>to h   | 1         0.0           1         0.6           7         0.5           2         0.1           4         0.2           50         0.2           50         0.2           50         0.2           7         0.5           6         0.2           50         0.2           7         0.2           7         0.2           9         0.2           9         0.2           9         0.2           9         0.2           9         0.2           9         0.2           9         0.2           10         0.2           11         0.2           12         0.2           12         0.2   | 1.6           0.1           0.2   | 7.1<br>0.5<br>0.4<br>0.4<br>• standard d<br>• c   | (00m - speak<br>deviation)<br>> +1 σ   | Band Jacks Front Fra<br>and Providers Pro-<br>Pro-19<br>77-28  |  |                      |
| oogle<br>rning | Commodity<br>Minest (Winter) -<br>Substalia View<br>Racessed / Canola -<br>Canada<br>Wheat (Winter) - Brazil<br>Sunflower - Russia<br>(South)   | Index Type<br>Precipitation<br>Mean<br>Temperature<br>Precipitation<br>Precipitation                                   | Posted On •<br>17-Aug-15<br>14-Aug-15<br>14-Aug-15   | Type<br>Data Alert<br>Data Alert<br>Data Alert<br>Forecast<br>Alert<br>Data Alert        | Tema of Use<br>Title<br>Australia<br>Winter<br>Wheat<br>Canada<br>Brazil<br>Wheter<br>Wheat<br>Sunflower<br>UK Winter<br>Wheat  | Report a map error<br>Summary<br>Conditions have<br>Weekend frost ri<br>Mostly dry weath<br>Rain and cooler I<br>stress<br>Harvest kicks off                                    | Wheat<br>(Whiter)<br>turmed drier a<br>isk in western<br>her favors crop<br>temperatures<br>f across the re   | Wheat<br>Durum<br>again<br>areas<br>p development<br>may ease crop<br>egion                         | Level<br>MED<br>MED                             | Details<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constant<br>Constan   |  | Ukraine                | Virzia Can Index<br>US can (one) have<br>US can (one)   |   | 64.8<br>6.8<br>6.4<br>4.8<br>3.6<br>vual to the c<br>< -0.2   | 20.4 5<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0<br>sflerence from<br>σ π<br>π<br>π<br>π<br>π<br>π<br>π<br>π<br>π<br>π<br>π<br>π<br>π<br>π   | 1         0.0           1         0.6           7         0.5           2         0.1           4         0.2           50         0.2      < | 1.6     0.1     0.2 | 7.1<br>0.5<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4  | (0000 - speed<br>0.4<br>1.0<br>1.2<br>0.5<br>0.8<br>2<br>0.8<br>2<br>0.8<br>2<br>0.8<br>2<br>0.8<br>2<br>0.8<br>2<br>2<br>0.8<br>2<br>2<br>0.8<br>2<br>2<br>0.8<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2   | Beel (2/3 5/2/ /2<br>2017)   | *2 ×2 ×  |                      |
| oogle<br>rning | Commodity<br>Wheat (Winter) - Arazil<br>Bapessed / Canola -<br>Canada<br>Wheat (Winter) - Brazil<br>Sunflower - Russia<br>(South)<br>Wheat (Winter) - UK<br>Coffee - Brazil Arabica             | Index Type<br>Precipitation<br>Mean<br>Temperature<br>Precipitation<br>Precipitation                                   | Posted On •<br>17-Aug-15<br>17-Aug-15<br>14-Aug-15<br>14-Aug-15<br>14-Aug-15                           | Type<br>Data Alert<br>Data Alert<br>Data Alert<br>Forecast<br>Alert                      | Terms of Use<br>Title<br>Australia<br>Winter<br>Wheat<br>Canada<br>Canada<br>Canada<br>Brazil<br>Winter<br>Wheat<br>Russia<br>Sunflower<br>UK Winter  | Report a map error<br>Summary<br>Conditions have<br>Weekend frost ri<br>Mostly dry weath<br>Rain and cooler I<br>stress   | Wheat<br>(Whiter)<br>turmed drier a<br>isk in western<br>her favors crop<br>temperatures<br>f across the re   | Wheat<br>Durum<br>again<br>areas<br>p development<br>may ease crop<br>egion                         | Level<br>MED<br>MED                             | Details  |  |                        | Virzia Can Index<br>US can (one) have<br>US can (one)   |   | 64.8<br>6.8<br>6.4<br>4.8<br>3.6<br>0.8<br>6.4           0.8<br>5.6           0.8<br>5.6           0.8<br>5.6           0.8<br>5.6           0.8<br>5.6           0.8<br>5.6           0.8<br>5.6           0.8<br>6.7           0.8<br>7.6           0.8<br>7.6           0.8<br>7.6           0.8<br>7.6           0.8<br>7.6           0.8<br>7.6           0.8<br>7.6   | 20.4         5           3.7         1           2.1         0           1.4         0           1.7         0           difference         from           σ         n   | 1         0.0           1         0.6           7         0.5           2         0.1           4         0.2           the mean d         0.2           comal         0.2  | 1.0           0.1           0.2   | 2.1         0.5           0.5         0.4           0.4         0.4           0.5         0.4           0.5         0.4           0.5         0.4           0.5         0.4           0.5         0.4           0.5         0.4           0.5         0.4           0.5         0.4           0.5         0.4           0.5         0.5           0.5         0.5           0.5         0.5           0.5         0.5           0.5         0.5           0.5         0.5           0.5         0.5           0.5         0.5           0.5         0.5           0.5         0.5 | 0.4<br>3.6<br>3.2<br>0.5<br>2.2<br>0.5<br>2.2<br>0.5<br>2.2<br>2.2<br>2.2<br>2.2<br>2.2<br>2.2<br>2.2<br>2   | Test and the factor for<br>the factor of the<br>test and the<br>test and<br>test and test and tes |  |                      |
|                | Commodity<br>Minest (Winter) -<br>Substalia View<br>Racessed / Canola -<br>Canada<br>Wheat (Winter) - Brazil<br>Sunflower - Russia<br>(South)   | Index Type<br>Precipitation<br>Mean<br>Temperature<br>Precipitation<br>Precipitation<br>Precipitation                  | Posted On •<br>17-Aug-15<br>17-Aug-15<br>14-Aug-15<br>14-Aug-15<br>14-Aug-15                           | Type<br>Data Alert<br>Data Alert<br>Data Alert<br>Data Alert<br>Forecast<br>Forecast     | Terms of Use<br>Title<br>Australia<br>Winter<br>Wheat<br>Canada<br>Canada<br>Canada<br>Brazil<br>Winter<br>Wheat<br>UK Winter<br>Wheat<br>Brazil  | Report a map error<br>Summary<br>Conditions have<br>Weekend frost ri<br>Mostly dry weath<br>Rain and cooler I<br>stress<br>Harvest kicks off<br>Dryness aids har                | Wheat<br>(Whiter)<br>turmed drier a<br>isk in western<br>her favors crop<br>temperatures<br>f across the re   | Wheat<br>Durum<br>again<br>areas<br>p development<br>may ease crop<br>egion                         | Level<br>MED<br>MED<br>MED<br>MED<br>MED<br>MED | Details  | Speed of the set of  |                        |  |   | 64.8<br>6.8<br>6.4<br>4.8<br>3.6<br>0.8<br>6.4           0.8<br>5.6           0.8<br>5.6           0.8<br>5.6           0.8<br>5.6           0.8<br>5.6           0.8<br>5.6           0.8<br>5.6           0.8<br>6.7           0.8<br>7.6           0.8<br>7.6           0.8<br>7.6           0.8<br>7.6           0.8<br>7.6           0.8<br>7.6           0.8<br>7.6   | 20.4 3<br>3.7 1<br>2.1 0<br>1.4 0<br>1.7 0<br>fiference from<br>σ h  | 1         0.0           1         0.6           7         0.5           2         0.1           4         0.2           50         0.2      < | 1.0           0.1           0.2   | 7.1<br>0.5<br>0.5<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4<br>0.4   | (0000 - spend<br>0.4<br>1.0<br>1.2<br>0.5<br>0.8<br>2<br>0.8<br>2<br>0.8<br>2<br>0.8<br>2<br>0.8<br>2<br>0.8<br>2<br>2<br>0.8<br>2<br>2<br>0.8<br>2<br>2<br>0.8<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2   | Test and the factor for<br>the factor of the<br>test and the<br>test and<br>test and test and tes |  |                      |
| oogle          | Commodity<br>Wheat (Winter) - Arazil<br>Bapessed / Canola -<br>Canada<br>Wheat (Winter) - Brazil<br>Sunflower - Russia<br>(South)<br>Wheat (Winter) - UK<br>Coffee - Brazil Arabica             | Index Type<br>Precipitation<br>Mean<br>Temperature<br>Precipitation<br>Precipitation<br>Precipitation                  | Posted On •<br>17-Aug-15<br>17-Aug-15<br>14-Aug-15<br>14-Aug-15<br>14-Aug-15<br>14-Aug-15              | Type<br>Data Alert<br>Data Alert<br>Data Alert<br>Data Alert<br>Forecast<br>Forecast     | Terms of 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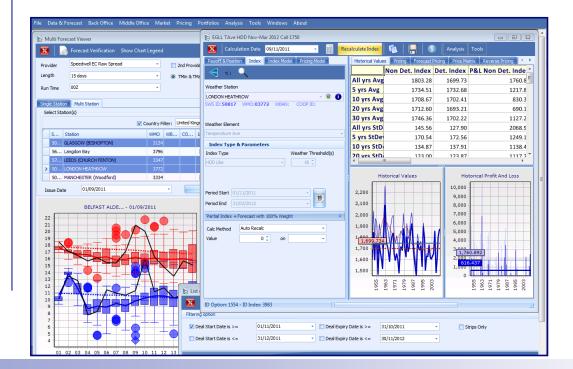
Speedwell Weather

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# **Speedwell Weather Enterprise Weather Risk Management Software**

The Speedwell Weather System (SWS) is the definitive enterprise weather derivative pricing and risk management system. The product of over fifteen years' of continuous development, SWS offers sophisticated pricing tools as well as portfolio management and full back and middle office functionality including regulatory reporting.

SWS functions as a central warehouse for weather data and forecasts, automatically downloading into its data base. SWS is used by banking, insurance, energy and investment fund clients in the USA and Europe.



SWS is an open system and is available as an internally installed application or can be hosted remotely.

- Weather risk contract pricing tools
- Gas-quanto pricing
- Portfolio management
- Back office trade flow management / settlement / Dodd Frank / EMIR regulatory reporting
- Automatic weather data and forecast importation into dedicated weather data base



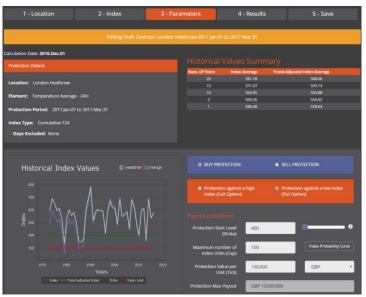


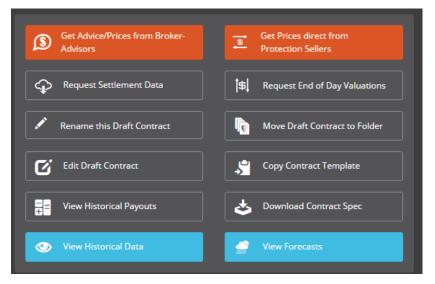


weatherXchange<sup>®</sup> is a platform which helps companies with weather risk access index-based weather risk protection. The weatherXchange platform provides unprecedented access to tools and services:

- Free access to the highest-quality weather data for thousands of sites, basket indexes, and gridded data
- Free structuring tools to help new hedgers through the process of designing a hedge
- Free price comparison though streamlined communications between market participants
- · Integrating access to Settlement Services
- Integrating access to independent middle-office Calculation Services
- Compliant with required regulations to address users based in the EU/UK/Switzerland, Australia, Bermuda, Brazil, Colombia and USA

weatherXchange Limited is regulated by the Financial Conduct Authority weatherXchange $^{\otimes}$ 





# **Speedwell Settlement Services**

Speedwell is the major provider of Settlement Data for index-based weather risk contracts world-wide. Even the highest quality weather data is subject to missing values, erroneous observations, delayed reporting, instrument failure, and the potential for observation tampering. Speedwell Settlement Services (SSS) ensures accurate and reliable observations for the settlement of weather risk contracts.

### Weather Station Installation

The installation of weather stations is sometimes required in order to provide advanced quality control of pre-existing weather stations or to establish an observation point in close proximity to a risk location (minimize "basis risk"). SSS has many years of experience in the data requirements necessary for cost-effective weather risk placement. Using the latest instrumentation and communications systems weather stations can be deployed on quick notice to meet the needs of weather risk market.

### **Notable Projects**

**World Bank: UTE Transaction:** \$450 million dollar hedge providing protection for UTE, a Uruguayan state-owned hydropower company. Speedwell 's role in this project included the installation of back-up weather stations across the region and provision of Settlement Data. Speedwell also acted as Calculation Agent and provided inperiod valuations for the counterparties.

**EPM, Colombia**: \$250 million dollar hedge based upon cumulative precipitation at two weather stations. Multi-year project. Speedwell's role in this project includes the installation of back-up weather station and performing in-depth quality control of observations as observed by the hedge counterparty.



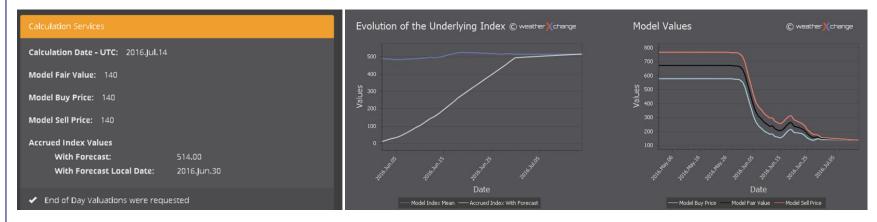
Speedwell Weather Station Installation: Chilean Andes

# **Speedwell Calculation Services**

Speedwell Calculation Services provides weather risk contract valuations and middle office metrics via the weatherXchange platform. End of day valuations, VaR and greeks can be provided.

Regulatory reporting requirements are satisfied with an exportable report

Optionally, full portfolio based valuations can also be provided



| Historical Va    | alues Sur           |                        |                      |                                |  |                    |                     |        |       | Export To Excel |
|------------------|---------------------|------------------------|----------------------|--------------------------------|--|--------------------|---------------------|--------|-------|-----------------|
| Calculation Date | Model Fair<br>Value | Model Index<br>Average | Model Index<br>StDev | Partial Index<br>With Forecast | Partial Index<br>Date With<br>Forecast | Model Buy<br>Price | Model Sell<br>Price | Delta  | Gamma | Vega            |
| 2016-Jun-30      |                     | 514.89                 |                      | 494.50                         | 2016-Jun-29                            |                    |                     | 10.00  |       | 0.00            |
|                  |                     | 516.84                 |                      | 476.00                         | 2016-Jun-28                            |                    |                     |        |       | 0.28            |
| 2016-Jun-28      |                     | 516.92                 | 9.65                 | 455.50                         | 2016-Jun-27                            |                    |                     | 159.42 |       | 1.23            |
| 2016-Jun-27      |                     | 516.45                 |                      | 434.50                         | 2016-Jun-26                            |                    | 180                 |        | 0.03  | 2.05            |
|                  |                     |                        |                      |                                |  |                    |                     |        |       |                 |



Model Values are estimated using many different models to reduce model sensitivity for a given trade. In particular, several detrending methods are used, several
forecasts are used, several history length are used, several stress-testing scenarios are used.

Please feel free to contact us for any additional information regarding the risk models.

T: +44 (0) 1582 465 551 E: marketing@speedwellweather.com Harpenden, UK | Charleston, SC, USA

www.speedwellweather .com



