

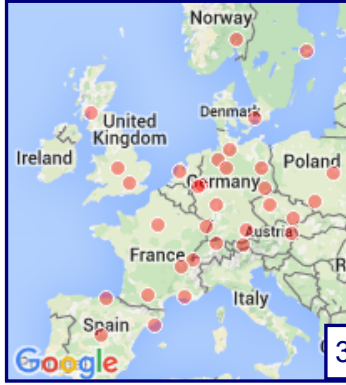


Speedwell-Market

Facilitating Trading of Energy Related Weather Risk Contracts

The Speedwell-Market platform provides **free** weather data and tools to facilitate the trading of standard energy-market HDD, CDD and Cumulative Average Temperature (CAT) structures for monthly and seasonal periods covering sites in Europe, North America and Australia.

Contracts based on HDD, CDD and Cumulative Average Temperature for monthly and seasonal structures are available.



32 European Sites



28 Sites in USA and Canada



2 Sites in Australia

For each site the following tools are provided:

- Access to **SWSConnect** web-based futures and options pricing tool.
- Access to the **Speedwell-Market Futures Dashboard** forecast impact, and forecast change impact.
- Access to model-based prices and volatility data to assist any requirements for bi-lateral margining.
- Speedwell-Market **Data Feed Notifications** alerting to any gross errors detected

SWSConnect Premium+

SWSConnect pricing tool

Results

Available to Premium Subscribers only

Expected P&L: **1,563,627.34**

Buy Price: 1,528,950.89 Derived from the Fair Price by subtracting 20% of the payoff StDev.

Fair Price: 1,563,627.34 Estimated value of the contract based on numerical integration with chosen distribution and detrending methods.

Sell Price: 1,598,303.78 Derived from the Fair price by adding 20% of the payoff StDev.

Burn Summary
Atlanta-Hartsfield International Airport; Temp Ave; CDD; From 01/Sep/2015 To 31/Oct/2015; Call

Num. Of Years	Index Avg	Index StDev	Profit Avg	Non Det. Index Avg	Non Det. Index StDev	Non Det. Profit Avg
1	352.57	0.00	1,762,840.35	356.64	0.00	1,783,206.08
5	315.27	24.38	1,576,361.59	318.20	24.69	1,590,977.36
10	318.24	26.60	1,591,188.92	320.20	26.25	1,600,980.80
20	313.38	24.37	1,566,889.71	311.78	25.08	1,558,886.70
30	314.03	26.61	1,570,165.91	309.59	25.81	1,547,951.29
40	313.97	33.49	1,569,829.98	307.14	30.65	1,535,700.00
85	312.73	34.68	1,563,627.34	303.81	32.09	1,519,025.60

Available to Premium Subscribers only

Accrued Index including Chosen Forecast		Greeks	
Value	262.76	Date	08-Oct-15
		Delta	5,000.00
		Gamma	0.00
		Vega	0.00
		Theta	0.00
		Rho	-15.42

Probability of Loss	%	VaR	Empirical VaR	Return on Empirical VaR
Pay off StDev	173,382.22	97.5%	0.00	0.00
Worst Case	1,237,475.09	99%	0.00	0.00
Best Case	2,223,954.18		0.00	0.00

Speedwell-Market: Futures Dashboard

Market Forecast: Pricing Date: 2015.09.16 - Forecast Issue Date: 2015.09.16 - Tim

Previous Forecast: Pricing Date: 2015.09.14 - Forecast Issue Date: 2015.09.14 - Tim

Location Filter: USA

Format Option: Red/Blue means Warmer/Colder | Red/Blue means Index value higher/lower | 5 Threshold

Summary Display | Full Display | Download | Preferences

Note: In column "Contract" letters mean the following S - Seasonal; C - Current Month; N - Next Month; P - Prev Month

#	Station Name	ICAO	Index Type	Index Start Date	Index End Date	Contract Filter	Partial Index Value	Partial Index Change	Partial Index End Date	Speedwell Forward (inc forecast)	Index Mean (exc forecast)	Index Mean Change (exc forecast)	Forecast Change for Day 1-5	Forecast Change for Day 5-10	Forecast Change for Day 10-15	Forecast Impact	Speedwell Forward Change (inc forecast)	Forecast Impact On StDev	Last Avail. CME Close	CME Close
	Chicago O'Hare Inter	KORD	CDD	01/Oct/15	31/Oct/15	N	0.0	0.0		17.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0		17	15/Sep/11
	Cincinnati-Northern I	KCVG	CDD	01/May/15	30/Sep/15	S	1,049.5	1.5	15/Sep/15	1,073.1	1,095.2	-6.3	11.1	-14.7	10.3	-22.1	0.4	-32.7	1,091	15/Sep/11
	Cincinnati-Northern I	KCVG	CDD	01/Sep/15	30/Sep/15	C	128.5	1.5	15/Sep/15	152.1	174.2	-6.3	11.1	-14.7	10.3	-22.1	0.4	-32.7	169	15/Sep/11
	Cincinnati-Northern I	KCVG	CDD	01/Oct/15	30/Oct/15	N	0.0	0.0		23.5	23.5	0.0	0.0	0.0	0.0	0.0	0.0		24	15/Sep/11
	Cincinnati-Northern I	KCVG	CDD	01/Oct/15	31/Oct/15	N	0.0	0.0		23.5	23.5	0.0	0.0	0.0	0.0	0.0	0.0		24	15/Sep/11
	Colorado Springs Mu	KCOS	CDD	01/May/15	30/Sep/15	S	566.5	13.0	15/Sep/15	582.7	581.0	11.5	-10.1	-7.1	2.0	1.7	10.5	-13.9	539	05/Jun/11
	Colorado Springs Mu	KCOS	CDD	01/Sep/15	30/Sep/15	C	71.0	13.0	15/Sep/15	87.2	85.5	11.5	-10.1	-7.1	2.0	1.7	10.5	-13.9	49	05/Jun/11
	Colorado Springs Mu	KCOS	CDD	01/Oct/15	30/Oct/15	N	0.0	0.0		1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0			
	Colorado Springs Mu	KCOS	CDD	01/Oct/15	31/Oct/15	N	0.0	0.0		1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0		1	05/Jun/11
	Dallas-Fort Worth Int	KDFW	CDD	01/May/15	30/Sep/15	S	2,362.0	28.5	15/Sep/15	2,397.7	2,558.5	1.6	9.1	-7.7	1.0	39.2	3.9	-39.0	2,576	15/Sep/11
	Dallas-Fort Worth Int	KDFW	CDD	01/Sep/15	30/Sep/15	C	282.5	28.5	15/Sep/15	518.2	479.0	1.5	9.1	-7.7	1.0	39.2	3.9	-39.0	496	15/Sep/11
	Dallas-Fort Worth Int	KDFW	CDD	01/Oct/15	30/Oct/15	N	0.0	0.0		165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0			
	Dallas-Fort Worth Int	KDFW	CDD	01/Oct/15	31/Oct/15	N	0.0	0.0		166.4	166.4	0.0	0.0	0.0	0.0	0.0	0.0		166	15/Sep/11
	Des Moines Internat	KDSM	CDD	01/May/15	30/Sep/15	S	1,075.0	19.0	15/Sep/15	1,123.4	1,110.5	15.9	-22.9	2.9	7.4	12.9	3.3	-17.6	1,127	15/Sep/11
	Des Moines Internat	KDSM	CDD	01/Sep/15	30/Sep/15	C	158.5	19.0	15/Sep/15	206.9	194.0	15.9	-22.9	2.9	7.4	12.9	3.3	-17.6	210	15/Sep/11

Speedwell-Market Dashboard with valuation and forecast-impact metrics



Data

For each reference site the following datasets are available **for no charge**

- **Cleaned Historical Data** - 20 years of daily maximum and minimum temperature.
- **Settlement Data** - based on cleaned daily maximum and minimum temperature available on request by FTP.
- **Settlement Certificates** - showing final settlement values for each contract type for each month for each reference site.

As a chargeable option:

- **Recalibrated Data** which adjusts historic observations for discontinuities such that the time series is in-line with current reporting conditions and Real Time Monitor

Documentation

For each site the following definitions and specifications are available on-line:

- **Settlement Data Specification**

Data delivery schedule and quality control methods used for the production of Settlement Data.

- **Contract Definitions**

Contract specifications detailing data sources and calculations.

- **Reference site metadata**

Weather station identification and reporting conventions for each market.

WMO No	WBAN	ICAO	Station Name	Country	DATE	HDD (H8c)	CDD	CAT	M1 - Mean	M1 - Vol	M4 - Mean 10Yrs	M4 - Vol 10Yrs
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.01	9.2	0.0	8.8	0.0	329.65	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.02	8.9	0.0	17.9	4.8	2,316.97	15.26	15.49
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.03	5.9	0.0	30	0.0	451.15	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.04	2.9	0.0	45.1	0.0	637.85	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.05	1.5	0.0	61.6	0.0	707.30	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.06	5.8	0.0	73.9	4.8	463.93	15.49	15.49
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.07	6.1	0.0	85.7	0.0	391.85	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.08	4.4	0.0	99.3	0.0	391.85	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.09	6.2	0.0	111.1	5.3	2,492.52	15.74	15.74
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.10	6.3	0.0	122.8	0.0	476.45	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.11	0.0	0.4	141.2	0.0	595.25	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.12	3.7	0.0	155.5	0.0	595.25	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.13	6.2	0.0	167.3	0.0	606.40	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.14	6.4	0.0	178.9	5.3	417.87	15.74	15.74
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.15	8.0	0.0	188.9	0.0	408.10	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.16	7.3	0.0	199.6	3.9	2,496.91	12.65	12.65
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.17	6.4	0.0	211.2	0.0	504.45	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.18	7.3	0.0	221.9	0.0	581.40	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.19	7.3	0.0	232.6	0.0	1,143.35	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.20	7.7	0.0	242.9	0.0	561.85	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.21	7.3	0.0	253.6	0.0	561.85	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.22	2.3	0.0	269.3	0.0	561.85	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.23	7.1	0.0	280.2	0.0	561.85	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.24	7.2	0.0	291	3.9	441.01	12.65	12.65
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.25	6.0	0.0	303	0.0	373.95	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.26	6.3	0.0	314.7	4.0	2,393.62	12.91	12.91
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.27	5.3	0.0	327.4	0.0	456.65	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.28	6.1	0.0	339.3	0.0	561.85	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.29	6.5	0.0	350.8	0.0	561.85	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.30	6.4	0.0	362.4	0.0	561.85	0.00	0.00
6240	EHAM	AMSTERDAM	SCHIPHOL	NLD	2015.05.31	5.8	0.0	374.6	0.0	1,140.85	0.00	0.00
MONTHLY TOTALS						183.8	0.4	374.6				

Country	Town	WMO	WBAN	ICAO	Speedwell ID	State / County
Australia	Bankstown Airport AWS	94765	YSBK	AUS_066137		New South Wales (NSW)
Australia	Brisbane Airport	94578	YBBN	AUS_040842		Queensland (QLD)
Austria	Innsbruck Airport	11120	LOWI	16914		Tyrol
Austria	Vienna Schwechat-Airport	11036	LOWW	19068		Niederosterreich
Canada	Edmonton International Airport	71123		CAN_3012216		Alberta
Canada	Montreal International Airport	71627		CAN_7025251		Quebec
Canada	Vancouver International Airport	71892		CAN_1108395		British Columbia
Czech Republic	Brno Turany	11723	LKTB	16922		Jihomoravsky
Czech Republic	Prague Ruzyně	11518	LKPR	16920		Stredocesky
Denmark	Copenhagen Kastrup	06180	EKCH	19032		Staden Kopenhagen

About Speedwell Weather Limited

Speedwell Weather provides quality weather data, weather forecasts, software, and weather-risk consultancy. With offices in the UK and the USA we serve clients in sectors including weather-risk, energy and agriculture world-wide. We are the dominant provider of Settlement Data for parametric weather risk contracts.

Worldwide weather data

Speedwell carries an archive of many tens of thousands of quality weather data sets world-wide. Historical data and feeds are available via web download, by Speedwell API or by FTP. Our data sets are available for individual sites, for any requested pack of sites, or, for users looking for unlimited access through SuperPack[®]. SuperPack makes available an unprecedented range of quality historical weather data and weather data feeds on-demand for a single annual fee.

Contacts

For more information about SpeedWell-Market or other data and forecast services please see www.SpeedwellWeather.com or contact:

info@SpeedwellWeather.com

Telephone:

Europe: +44 (0) 1582 465 551

USA: +1 843 737 4843

Address UK: *Mardall House, Vaughan Rd, Harpenden, Herts, AL5 4HU*

Address USA: *418 King Street, Charleston, SC 29403*

**Environmental
Finance 2015**
Annual Market Rankings
Winner

Best Global Weather Risk Management
Advisory / Data Service Winner for the 8th
consecutive year