

# June 2011 Forecast Services Update

## Speedwell Weather



### Speedwell Numerical Forecast Services

Speedwell provides fully downscaled forecasts based upon the ECMWF (European Center for Medium Range Weather Forecasting) EPS and Operational model outputs. Speedwell forecasts can be viewed on the web using a range of plotting tools and overlays. We can also deliver the forecasts as data files containing the full 51 members by FTP for automated processing. Over 400 sites available with others available on request

#### 15-day Forecasts

- 15-day, multi-member ensemble forecast showing ensemble average and all 51 members
- Temperature Max/Min and rainfall
- Based upon ECMWF monthly model
- Fully downscaled station level forecast
- Issued 2x per day (00Z & 12Z model run),

#### Monthly Forecasts

- 30-day, multi-member ensemble forecast
- Based upon ECMWF monthly model
- Fully downscaled station level forecast
- Released 1x per week

**NEW** - We now offer two variants of the 15-day forecast:  
**Spread-Adjusted:** In this product all members are separately downscaled such that the ensemble spread relates to real-world outcomes. This addresses the artificial low uncertainty at the front end of the raw ECMWF product.

**Raw-Spread:** for use by meteorologists for whom the limitations of the raw model product are implicitly understood. In this variant the forecast is still downscaled but the spread of the raw ECMWF model members is preserved.

#### ZigZag Forecasts

- **FAST**...Real time graphical / text representation of change in the forecast from the previous model
- Presented on a station-by-station basis or group
- ECMWF focused
- Ultra fast delivery - fastest in the market (auto update)
- Available as specialty products: U.S. Power Regions, Hydro, Ag,...
- Intuitive web based interface - perfect for traders and meteorologists

**Delivery:** Speedwell forecasts can be viewed on the web using a range of plotting tools and overlays. We can also deliver the forecasts as data files containing the full 51 members to FTP for automated processing

**Web Tools:**

- Box and whiskers plot
- Smoothed climatology
- Choice of climatology
- Ensemble average
- Forecast change 12/24..
- Historical obs
- Individual members
- Previous year
- Probability distributions
- Unlimited overlay of different graph types
- User-configurable favorites

**Difference between model forecasts**  
 (above 0 = warmer, below 0 = cooler)

**Model name / date & time of release / comparison details**

