The Delphi-Stat system is an ensemble of several statistical forecasting methods that treat each flu season as a unit. Its forecasts are a linear combination of the forecasts of each component, with a separate set of coefficients determined for each epi week, evaluation metric, and target. Components include an empirical Bayes procedure over weighted %ILI curves (Brooks LC, Farrow DC, Hyun S, Tibshirani RJ, Rosenfeld R. Flexible modeling of epidemics with an empirical Bayes framework. PLOS Comput Biol. 2015 Aug 28;11(8):e1004382), a basis regression approach, and an iterated kernel density estimation procedure for week-over-week changes. The system also incorporates a kernel density estimation procedure to forecast future updates to published weighted %ILI values.

Update 12/6/16:

Delphi-Stat's weighted ensemble now includes Delphi-Nowcast for 1 wk ahead point and distributional forecasts.

Delphi-Nowcast combines several proxies for flu activity, including digital surveillance data, Delphi-Epicast, and statistical forecasters, accounting for differences in resolution, availability, bias, noisiness, etc. (In contrast, other Delphi-Stat components are statistical forecasters that use solely FluView data.)