

MH – Competition: Forecasting Competition on Transportation Data

Michèle HIBON

INSEAD
France

Michele.hibon@insead.edu

Peg YOUNG

US Bureau of
Transportation Statistics

Peg.young@dot.gov

Miriam SCAGLIONE

HEVs-Institut Economie & Tourisme
Switzerland

Miriam.Scaglione@hevs.ch

❖ Description of the data

Categories	Number of Series	Identification
Yearly	37	Y001 to Y037
Quarterly	42	Q001 to Q042
Monthly	161	M001 to M161
Weekly	42	W001 to W042
Daily	40	D001 to D040
Hourly	46	H001 to H046
TOTAL	368	

1) **Data** (file: MHcomp.xls)

- a) each category on a different sheet
- b) one series per column
- c) for each series:
 - Series identification
 - Number of observations (N)
 - For Hourly series only: number of hours per day
 - Starting Date
 - Ending Date
 - N observations, one per cell

- 2) **Description** (file: MHdescrComp.xls)
- a) each category on a separate sheet
 - b) one series per row
 - c) for each series:
 - Series identification
 - Number of observations (N),
 - For Hourly series only: range of hours
 - Starting Date
 - Ending Date
 - Brief description
- 3) **Seasonal Indices** (file: MHseasind.xls)
- a) each category on a separate sheet
 - b) one series per row
 - c) for each series:
 - Series identification
 - 4 indices (equal to 1 if not seasonal) for quarterly series
 - 12 indices (equal to 1 if not seasonal) for monthly series

❖ The Competition

The data is available on the forecasting principle website
 Or by e-mail: michele.hibon@insead.edu

The rules of the competition are:

1) Format

- Number of forecasts to be calculated:

Categories	Number of Forecasts
Yearly	6
Quarterly	8
Monthly	12
Weekly	26
Daily	14
Hourly	48

- 95% prediction interval

The results should be displayed on Excel files: each category of data on a different sheet, one series per row.

In addition to the quantitative results, the competitors should:

- Give a description of their method
- Briefly describe the conditions under which their methods will produce better results, and give reasons for these expectations.
- **In case you cannot get some of the data sets to work with your forecasting methods, you can use instead just a subset of the data, by ignoring one or more categories of series.**
If you choose to work with only a subset of data, we'll need to know why you chose these categories of series and didn't choose the others.

2) **Schedule**

Deadline for submission: **28 February 2007**
to michele.hibon@insead.edu

3) **Guidelines**

- One entrance per competitor.
- The competitors should certify that they didn't try to retrieve the original data.
- No advertising will be permitted, based upon the results, as it is an academic competition.