



Admitting Our Professional Bias

If prediction is the ultimate aim of all science, then we forecasters ought to award ourselves the palm for accomplishment, bravery or rashness....We [economists] are better than anything else in heaven and earth at forecasting aggregate business trends—better than gypsy tea-leaf readers, Wall Street soothsayers and chartist technicians, hunch-playing heads of mail-order chains, or all-powerful heads of state.

Paul Samuelson



What is Naïve Forecasting?

- Naive forecasting (NF) techniques are quantitative forecasting tools that use only the historical data of the variable being forecasted in the analysis. Therefore, all other influences that may impact on the variable are excluded from the analysis and the forecast.
- NF provides a convenient way to generate quick and easy forecasts for the short time horizon.
- Forecast is not affected by environment.
- The forecast will miss turning points.











Five- and Ten-Year Averages

- Length of periods used is arbitrary
- Equal weight placed on values at any point of the relevant 10-year period
- Beginning and ending points rule in 5-year linear growth
- Analyst abandons attempt to pick turning points











	FY01	FY02	FY03	FY04	FY05	FY06
DRI/GI	7.4%	0.1%	5.7%	5.5%	12.6%	12.0%
NF1 (elasticity)	na	na	na	na	na	na
NF2 (Ten-year avg. growth)	13.6%	12.5%	4.4%	5.6%	7.6%	8.5%
NF3 (5-year linear growth)	6.6%	3.5%	0.9%	1.3%	12.8%	12.3%

	FY01	FY02	FY03	FY04	FY05	FY06
CFG	2.7%	0.1%	2.2%	3.5%	8.1%	7.3%
NF1 (elasticity)	na	na	na	na	na	na
NF2 (Ten-year avg. growth)	9.7%	8.4%	0.0%	0.8%	2.4%	3.8%
NF3 (5-year linear growth.)	1.6%	2.2%	7.3%	8.8%	9.5%	10.3%

	FY01	FY02	FY03	FY04	FY05	FY0
CFG	2.4%	9.5%	4.4%	3.5%	6.0%	8.5%
NF1 (elasticity)	5.1%	12.9%	6.2%	6.3%	5.0%	7.9%
NF2 (Ten-year avg. growth)	0.9%	6.4%	8.9%	7.7%	3.6%	7.4%
NF3 (5-year linear growth.)	1.2%	7.2%	6.5%	4.9%	3.8%	8.1%

	FY01	FY02	FY03	FY04	FY05	FY0
CFG	1.9%	3.8%	0.7%	0.4%	0.5%	1.1%
NF1 (elasticity)	2.0%	3.7%	1.2%	1.8%	0.4%	1.0%
NF2 (Ten-year avg. growth)	0.9%	1.8%	2.0%	1.8%	1.8%	1.4%
NF3 (5-year linear growth.)	0.8%	1.9%	1.5%	1.2%	0.6%	1.8%

	Ellois					
	FY01	FY02	FY03	FY04	FY05	FY0
CFG	1.9%	3.8%	4.2%	4.2%	2.3%	2.3%
NF1 (elasticity)	2.0%	3.7%	3.9%	3.3%	2.1%	2.6%
NF2 (Ten-year avg. growth)	0.9%	1.8%	5.6%	5.2%	0.3%	0.6%
NF3 (5-year linear growth.)	0.8%	1.9%	5.4%	5.2%	2.5%	4.1%



	FY01-FY02	FY03-FY04	FY05-FY06			
CFG	5.9%	3.9%	7.3%			
NF1 (elasticity)	9.0%	6.3%	6.5%			
NF2 (Ten-year avg. growth)	3.6%	8.3%	5.5%			
NF3 (5-year linear growth)	4.2%	5.7%	6.1%			

	FY01-FY02	FY03-FY04	FY05-FY06
CFG	8.2%	1.6%	2.4%
NF1 (elasticity)	8.3%	4.3%	2.1%
NF2 (Ten-year avg. growth)	3.9%	5.5%	4.8%
NF3 (5-year linear growth)	3.9%	3.8%	3.7%

	FY01-FY02	FY03-FY04	FY05-FY06
CFG	6.4%	10.4%	6.2%
NF1 (elasticity)	7.0%	8.9%	6.4%
NF2 (Ten-year avg. growth)	3.6%	13.4%	1.2%
NF3 (5-year linear growth)	6.9%	13.1%	9.0%



Conclusions

- Results may not be robust over time
- All forecasts are easier if data are consistent and well-behaved
 - "Always look back. You may learn something from your residuals. Usually one's forecasts are not so good as one remembers them; the difference may be instructive."

– Paul Samuelson

Conclusions

"Every drop helps", the old farmer said, as he spat into the pond. One does the best one can on the most pressing problem that presents. And if, after you have done so, your next moves are down a trajectory of diminishing returns, then still it is optimal to follow the rule of doing the best that there is to do. Besides, at any time a Schumpeterian innovation or Darwinian mutation may occur to you, plucking the violin string of increasing return.

Paul Samuelson