

With and without Optimal G

For h=1

```
## Joining, by = c("F.method", "R.method", "Forecast.Horizon")
```

With Optimal G						
R.method	Log Score		Energy Score		Variogram Score	
	E.LS	SD.LS	E.ES	SD.ES	E.VS	SD.VS
Base	NA	NA	12.32	4.85	5.00	4.40
Bottom up	12.60	1.47	14.08	5.80	5.26	4.79
MinT.Sam	11.62	1.44	11.04	4.76	4.43	4.15
MinT.Shr	11.63	1.44	11.06	4.77	4.44	4.16
OLS	11.90	1.47	11.71	4.98	4.78	4.47
Optimal	11.93	1.43	12.94	6.42	6.00	6.42
WLS	11.76	1.46	11.39	4.91	4.65	4.35

```
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```

Without Optimal G						
R.method	Log Score		Energy Score		Variogram Score	
	E.LS	SD.LS	E.ES	SD.ES	E.VS	SD.VS
Base	NA	NA	13.18	5.18	5.67	4.24
Bottom up	13.07	1.49	14.64	6.26	4.67	3.93
MinT.Sam	12.32	1.46	11.81	4.89	4.57	3.77
MinT.Shr	12.33	1.45	11.81	4.91	4.56	3.77
OLS	12.50	1.49	12.45	5.27	4.65	3.76
WLS	12.38	1.47	12.01	5.03	4.59	3.72

For h=2

```
## Joining, by = c("F.method", "R.method", "Forecast.Horizon")
```

With Optimal G						
R.method	Log Score		Energy Score		Variogram Score	
	E.LS	SD.LS	E.ES	SD.ES	E.VS	SD.VS
Base	NA	NA	15.76	6.79	6.17	5.40
Bottom up	13.71	2.37	17.43	8.37	6.56	6.04
MinT.Sam	14.06	4.03	14.41	6.52	5.53	5.06
MinT.Shr	14.07	4.03	14.41	6.50	5.51	5.03
OLS	13.92	3.49	15.09	6.93	5.93	5.51
Optimal	13.31	2.83	15.04	7.91	6.32	8.06
WLS	14.09	3.91	14.76	6.69	5.76	5.35

```
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```

Without Optimal G						
R.method	Log Score		Energy Score		Variogram Score	
	E.LS	SD.LS	E.ES	SD.ES	E.VS	SD.VS
Base	NA	NA	18.48	8.32	7.36	6.34
Bottom up	14.52	2.81	20.32	11.16	5.24	5.20
MinT.Sam	14.61	3.67	16.12	7.49	5.09	4.79
MinT.Shr	14.56	3.63	16.10	7.48	5.08	4.81
OLS	14.57	3.49	17.18	8.41	5.26	4.92
WLS	14.59	3.62	16.46	7.78	5.15	4.79

For h=3

```
## Joining, by = c("F.method", "R.method", "Forecast.Horizon")
```

With Optimal G						
R.method	Log Score		Energy Score		Variogram Score	
	E.LS	SD.LS	E.ES	SD.ES	E.VS	SD.VS
Base	NA	NA	19.58	9.54	7.76	7.02
Bottom up	15.08	3.65	21.09	11.33	8.26	7.86
MinT.Sam	17.65	8.59	18.22	9.26	6.98	6.66
MinT.Shr	17.66	8.59	18.23	9.24	6.97	6.67
OLS	16.70	6.73	18.89	9.76	7.51	7.23
Optimal	14.43	4.04	17.91	9.41	7.71	7.97
WLS	17.46	8.08	18.59	9.45	7.30	7.03

```
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```

Without Optimal G						
R.method	Log Score		Energy Score		Variogram Score	
	E.LS	SD.LS	E.ES	SD.ES	E.VS	SD.VS
Base	NA	NA	26.16	13.60	9.53	8.78
Bottom up	16.75	5.22	27.80	17.82	6.07	6.62
MinT.Sam	19.16	9.04	22.85	12.48	5.83	6.12
MinT.Shr	19.03	8.94	22.78	12.46	5.80	6.11
OLS	18.50	7.97	24.35	13.83	6.18	6.45
WLS	18.95	8.74	23.38	12.93	5.97	6.21