XG + select λ by msMAPE

Data Set: Labour
Base Forecast Method: xg
Best L1 Lambda: 31.6227766016838
Best L2 Lambda: 10000

level1:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	0.9479355	135.7864	116.1991	0.6172507	0.009390358
L1	0.9102403	130.8823	111.6538	0.5927052	0.009015392
L2	0.8565214	124.6215	105.1324	0.5579815	0.008477626
MinT	4.3837216	616.0741	539.7980	2.8821079	0.042735128
Bottom-Up	0.9102403	130.8823	111.6538	0.5927052	0.009015392
OLS	0.9158414	135.1538	112.8668	0.5977193	0.009055904

level2:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.474929	33.67673	20.12153	0.7774041	0.001636383
L1	1.484873	33.35617	20.05477	0.7822685	0.001631846
L2	1.480162	32.65205	19.71545	0.7734616	0.001602702
MinT	8.116020	107.54511	75.05653	4.1024544	0.005957659
Bottom-Up	1.484873	33.35617	20.05477	0.7822685	0.001631846
OLS	2.708283	32.87737	22.04824	1.3363981	0.001782303

level3:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.726231	18.87514	11.27230	0.8367995	0.0009179120
L1	1.767061	19.11264	11.44973	0.8570663	0.0009330971
L2	1.751791	18.76472	11.30372	0.8480570	0.0009202895
MinT	8.303146	56.36157	38.53457	3.7989419	0.0030602334
Bottom-Up	1.767061	19.11264	11.44973	0.8570663	0.0009330971
OLS	2.880892	18.50400	12.23948	1.2953890	0.0009909257

level4:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	3.604640	15.71633	9.236361	1.055784	0.0007554998
L1	3.537393	15.15379	9.013141	1.036662	0.0007379048
L2	3.564433	15.06269	8.989570	1.037531	0.0007353443
MinT	11.803082	33.11218	21.534982	3.015051	0.0017136648
Bottom-Up	3.537393	15.15379	9.013141	1.036662	0.0007379048
OLS	5.247278	15.13079	9.537792	1.316040	0.0007768283

overall:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	2.731852	27.34353	13.21214	0.9475501	0.001076211
L1	2.706294	26.72021	13.04751	0.9427561	0.001063380
L2	2.715585	26.01153	12.83126	0.9388700	0.001044823
MinT	10.172997	99.19974	42.91093	3.3853760	0.003406972
Bottom-Up	2.706294	26.72021	13.04751	0.9427561	0.001063380
OLS	4.150689	27.06860	13.86480	1.3004984	0.001123292

XG + select λ by RMSE

Data Set: Labour
Base Forecast Method: xg
Best L1 Lambda: 31.6227766016838
Best L2 Lambda: 10000

level1:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	0.9479355	135.7864	116.1991	0.6172507	0.009390358
L1	0.9102403	130.8823	111.6538	0.5927052	0.009015392
L2	0.8565214	124.6215	105.1324	0.5579815	0.008477626
MinT	4.3837216	616.0741	539.7980	2.8821079	0.042735128
Bottom-Up	0.9102403	130.8823	111.6538	0.5927052	0.009015392
OLS	0.9158414	135.1538	112.8668	0.5977193	0.009055904

level2:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.474929	33.67673	20.12153	0.7774041	0.001636383
L1	1.484873	33.35617	20.05477	0.7822685	0.001631846
L2	1.480162	32.65205	19.71545	0.7734616	0.001602702
MinT	8.116020	107.54511	75.05653	4.1024544	0.005957659
Bottom-Up	1.484873	33.35617	20.05477	0.7822685	0.001631846
OLS	2.708283	32.87737	22.04824	1.3363981	0.001782303

level3:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.726231	18.87514	11.27230	0.8367995	0.0009179120
L1	1.767061	19.11264	11.44973	0.8570663	0.0009330971
L2	1.751791	18.76472	11.30372	0.8480570	0.0009202895
MinT	8.303146	56.36157	38.53457	3.7989419	0.0030602334
Bottom-Up	1.767061	19.11264	11.44973	0.8570663	0.0009330971
OLS	2.880892	18.50400	12.23948	1.2953890	0.0009909257

level4:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	3.604640	15.71633	9.236361	1.055784	0.0007554998
L1	3.537393	15.15379	9.013141	1.036662	0.0007379048
L2	3.564433	15.06269	8.989570	1.037531	0.0007353443
MinT	11.803082	33.11218	21.534982	3.015051	0.0017136648
Bottom-Up	3.537393	15.15379	9.013141	1.036662	0.0007379048
OLS	5.247278	15.13079	9.537792	1.316040	0.0007768283

overall:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	2.731852	27.34353	13.21214	0.9475501	0.001076211
L1	2.706294	26.72021	13.04751	0.9427561	0.001063380
L2	2.715585	26.01153	12.83126	0.9388700	0.001044823
MinT	10.172997	99.19974	42.91093	3.3853760	0.003406972
Bottom-Up	2.706294	26.72021	13.04751	0.9427561	0.001063380
OLS	4.150689	27.06860	13.86480	1.3004984	0.001123292

XG + select λ by MASE

Data Set: Labour
Base Forecast Method: xg
Best L1 Lambda: 31.6227766016838
Best L2 Lambda: 10000

level1:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	0.9479355	135.7864	116.1991	0.6172507	0.009390358
L1	0.9102403	130.8823	111.6538	0.5927052	0.009015392
L2	0.8565214	124.6215	105.1324	0.5579815	0.008477626
MinT	4.3837216	616.0741	539.7980	2.8821079	0.042735128
Bottom-Up	0.9102403	130.8823	111.6538	0.5927052	0.009015392
OLS	0.9158414	135.1538	112.8668	0.5977193	0.009055904

level2:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.474929	33.67673	20.12153	0.7774041	0.001636383
L1	1.484873	33.35617	20.05477	0.7822685	0.001631846
L2	1.480162	32.65205	19.71545	0.7734616	0.001602702
MinT	8.116020	107.54511	75.05653	4.1024544	0.005957659
Bottom-Up	1.484873	33.35617	20.05477	0.7822685	0.001631846
OLS	2.708283	32.87737	22.04824	1.3363981	0.001782303

level3:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.726231	18.87514	11.27230	0.8367995	0.0009179120
L1	1.767061	19.11264	11.44973	0.8570663	0.0009330971
L2	1.751791	18.76472	11.30372	0.8480570	0.0009202895
MinT	8.303146	56.36157	38.53457	3.7989419	0.0030602334
Bottom-Up	1.767061	19.11264	11.44973	0.8570663	0.0009330971
OLS	2.880892	18.50400	12.23948	1.2953890	0.0009909257

level4:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	3.604640	15.71633	9.236361	1.055784	0.0007554998
L1	3.537393	15.15379	9.013141	1.036662	0.0007379048
L2	3.564433	15.06269	8.989570	1.037531	0.0007353443
MinT	11.803082	33.11218	21.534982	3.015051	0.0017136648
Bottom-Up	3.537393	15.15379	9.013141	1.036662	0.0007379048
OLS	5.247278	15.13079	9.537792	1.316040	0.0007768283

overall:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	2.731852	27.34353	13.21214	0.9475501	0.001076211
L1	2.706294	26.72021	13.04751	0.9427561	0.001063380
L2	2.715585	26.01153	12.83126	0.9388700	0.001044823
MinT	10.172997	99.19974	42.91093	3.3853760	0.003406972
Bottom-Up	2.706294	26.72021	13.04751	0.9427561	0.001063380
OLS	4.150689	27.06860	13.86480	1.3004984	0.001123292

XG + select λ by SMAPE

Data Set: Labour
Base Forecast Method: xg
Best L1 Lambda: 31.6227766016838
Best L2 Lambda: 31622.7766016838

level1:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	0.9479355	135.7864	116.1991	0.6172507	0.009390358
L1	0.9102403	130.8823	111.6538	0.5927052	0.009015392
L2	0.8837598	127.7861	108.4522	0.5756031	0.008750605
MinT	4.3837216	616.0741	539.7980	2.8821079	0.042735128
Bottom-Up	0.9102403	130.8823	111.6538	0.5927052	0.009015392
OLS	0.9158414	135.1538	112.8668	0.5977193	0.009055904

level2:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.474929	33.67673	20.12153	0.7774041	0.001636383
L1	1.484873	33.35617	20.05477	0.7822685	0.001631846
L2	1.463832	33.00729	19.85453	0.7705929	0.001614831
MinT	8.116020	107.54511	75.05653	4.1024544	0.005957659
Bottom-Up	1.484873	33.35617	20.05477	0.7822685	0.001631846
OLS	2.708283	32.87737	22.04824	1.3363981	0.001782303

level3:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.726231	18.87514	11.27230	0.8367995	0.0009179120
L1	1.767061	19.11264	11.44973	0.8570663	0.0009330971
L2	1.744729	18.94496	11.36004	0.8471761	0.0009254002
MinT	8.303146	56.36157	38.53457	3.7989419	0.0030602334
Bottom-Up	1.767061	19.11264	11.44973	0.8570663	0.0009330971
OLS	2.880892	18.50400	12.23948	1.2953890	0.0009909257

level4:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	3.604640	15.71633	9.236361	1.055784	0.0007554998
L1	3.537393	15.15379	9.013141	1.036662	0.0007379048
L2	3.523677	15.10719	8.994002	1.033564	0.0007360684
MinT	11.803082	33.11218	21.534982	3.015051	0.0017136648
Bottom-Up	3.537393	15.15379	9.013141	1.036662	0.0007379048
OLS	5.247278	15.13079	9.537792	1.316040	0.0007768283

overall:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	2.731852	27.34353	13.21214	0.9475501	0.001076211
L1	2.706294	26.72021	13.04751	0.9427561	0.001063380
L2	2.688908	26.36521	12.92732	0.9363018	0.001053155
MinT	10.172997	99.19974	42.91093	3.3853760	0.003406972
Bottom-Up	2.706294	26.72021	13.04751	0.9427561	0.001063380
OLS	4.150689	27.06860	13.86480	1.3004984	0.001123292

Ets + select λ by RMSE

Data Set: Labour
Base Forecast Method: ets
Best L1 Lambda: 1.25892541179417
Best L2 Lambda: 3162.27766016838

level1:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	0.7366896	108.2487	90.19259	0.4794640	0.007273129
L1	0.7428002	108.7809	91.18820	0.4839110	0.007337669
L2	0.7216017	106.3074	88.49724	0.4699350	0.007126558
MinT	0.8526916	123.4278	103.89027	0.5539339	0.008424025
Bottom-Up	0.7428002	108.7809	91.18820	0.4839110	0.007337669
OLS	0.7199930	106.3327	88.12128	0.4686253	0.007108752

level2:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.337990	26.08806	16.19408	0.6951245	0.001312544
L1	1.270172	26.48862	16.15987	0.6626358	0.001310588
L2	1.293678	26.30754	16.09528	0.6725603	0.001305253
MinT	1.452039	30.03909	18.59099	0.7660198	0.001510727
Bottom-Up	1.270172	26.48862	16.15987	0.6626358	0.001310588
OLS	1.593667	26.16201	16.59923	0.8094704	0.001344616

level3:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.581466	15.31469	9.483413	0.7560126	0.0007694529
L1	1.502242	15.19703	9.297672	0.7221990	0.0007552628
L2	1.523440	15.12654	9.267032	0.7296058	0.0007526741
MinT	1.676546	16.89684	10.388789	0.8076287	0.0008454768
Bottom-Up	1.502242	15.19703	9.297672	0.7221990	0.0007552628
OLS	1.791454	15.04743	9.444505	0.8356072	0.0007660311

level4:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	3.382912	13.37720	8.213321	0.9816725	0.0006697470
L1	3.262113	12.64463	7.819606	0.9377768	0.0006392155
L2	3.267991	12.63030	7.814887	0.9397886	0.0006386680
MinT	3.528958	13.46368	8.353572	1.0137920	0.0006832112
Bottom-Up	3.262113	12.64463	7.819606	0.9377768	0.0006392155
OLS	3.603293	12.65035	7.911854	0.9971485	0.0006456700

overall:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	2.543811	22.31090	11.12818	0.8693014	0.0009038005
L1	2.444345	22.04076	10.86767	0.8306849	0.0008835345
L2	2.456522	21.81659	10.80015	0.8350411	0.0008780482
MinT	2.670533	24.69363	12.03777	0.9130789	0.0009807057
Bottom-Up	2.444345	22.04076	10.86767	0.8306849	0.0008835345
OLS	2.762070	21.90559	10.96854	0.9161905	0.0008909406

ETS + select λ by msMAPE

Data Set: Labour
Base Forecast Method: ets
Best L1 Lambda: 1.25892541179417
Best L2 Lambda: 3162.27766016838

level1:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	0.7366896	108.2487	90.19259	0.4794640	0.007273129
L1	0.7428002	108.7809	91.18820	0.4839110	0.007337669
L2	0.7216017	106.3074	88.49724	0.4699350	0.007126558
MinT	0.8526916	123.4278	103.89027	0.5539339	0.008424025
Bottom-Up	0.7428002	108.7809	91.18820	0.4839110	0.007337669
OLS	0.7199930	106.3327	88.12128	0.4686253	0.007108752

level2:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.337990	26.08806	16.19408	0.6951245	0.001312544
L1	1.270172	26.48862	16.15987	0.6626358	0.001310588
L2	1.293678	26.30754	16.09528	0.6725603	0.001305253
MinT	1.452039	30.03909	18.59099	0.7660198	0.001510727
Bottom-Up	1.270172	26.48862	16.15987	0.6626358	0.001310588
OLS	1.593667	26.16201	16.59923	0.8094704	0.001344616

level3:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.581466	15.31469	9.483413	0.7560126	0.0007694529
L1	1.502242	15.19703	9.297672	0.7221990	0.0007552628
L2	1.523440	15.12654	9.267032	0.7296058	0.0007526741
MinT	1.676546	16.89684	10.388789	0.8076287	0.0008454768
Bottom-Up	1.502242	15.19703	9.297672	0.7221990	0.0007552628
OLS	1.791454	15.04743	9.444505	0.8356072	0.0007660311

level4:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	3.382912	13.37720	8.213321	0.9816725	0.0006697470
L1	3.262113	12.64463	7.819606	0.9377768	0.0006392155
L2	3.267991	12.63030	7.814887	0.9397886	0.0006386680
MinT	3.528958	13.46368	8.353572	1.0137920	0.0006832112
Bottom-Up	3.262113	12.64463	7.819606	0.9377768	0.0006392155
OLS	3.603293	12.65035	7.911854	0.9971485	0.0006456700

overall:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	2.543811	22.31090	11.12818	0.8693014	0.0009038005
L1	2.444345	22.04076	10.86767	0.8306849	0.0008835345
L2	2.456522	21.81659	10.80015	0.8350411	0.0008780482
MinT	2.670533	24.69363	12.03777	0.9130789	0.0009807057
Bottom-Up	2.444345	22.04076	10.86767	0.8306849	0.0008835345
OLS	2.762070	21.90559	10.96854	0.9161905	0.0008909406

ETS + select λ by MASE

Data Set: Labour
Base Forecast Method: ets
Best L1 Lambda: 1.25892541179417
Best L2 Lambda: 10000

level1:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	0.7366896	108.2487	90.19259	0.4794640	0.007273129
L1	0.7428002	108.7809	91.18820	0.4839110	0.007337669
L2	0.7329763	107.6002	89.94427	0.4774403	0.007239848
MinT	0.8526916	123.4278	103.89027	0.5539339	0.008424025
Bottom-Up	0.7428002	108.7809	91.18820	0.4839110	0.007337669
OLS	0.7199930	106.3327	88.12128	0.4686253	0.007108752

level2:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.337990	26.08806	16.19408	0.6951245	0.001312544
L1	1.270172	26.48862	16.15987	0.6626358	0.001310588
L2	1.275069	26.40674	16.11884	0.6644881	0.001307231
MinT	1.452039	30.03909	18.59099	0.7660198	0.001510727
Bottom-Up	1.270172	26.48862	16.15987	0.6626358	0.001310588
OLS	1.593667	26.16201	16.59923	0.8094704	0.001344616

level3:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.581466	15.31469	9.483413	0.7560126	0.0007694529
L1	1.502242	15.19703	9.297672	0.7221990	0.0007552628
L2	1.506798	15.16471	9.278785	0.7235351	0.0007536949
MinT	1.676546	16.89684	10.388789	0.8076287	0.0008454768
Bottom-Up	1.502242	15.19703	9.297672	0.7221990	0.0007552628
OLS	1.791454	15.04743	9.444505	0.8356072	0.0007660311

level4:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	3.382912	13.37720	8.213321	0.9816725	0.0006697470
L1	3.262113	12.64463	7.819606	0.9377768	0.0006392155
L2	3.258190	12.63766	7.815575	0.9376551	0.0006388223
MinT	3.528958	13.46368	8.353572	1.0137920	0.0006832112
Bottom-Up	3.262113	12.64463	7.819606	0.9377768	0.0006392155
OLS	3.603293	12.65035	7.911854	0.9971485	0.0006456700

overall:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	2.543811	22.31090	11.12818	0.8693014	0.0009038005
L1	2.444345	22.04076	10.86767	0.8306849	0.0008835345
L2	2.443936	21.93212	10.83253	0.8311381	0.0008806864
MinT	2.670533	24.69363	12.03777	0.9130789	0.0009807057
Bottom-Up	2.444345	22.04076	10.86767	0.8306849	0.0008835345
OLS	2.762070	21.90559	10.96854	0.9161905	0.0008909406

ETS + select λ by SMAPE

Data Set: Labour
Base Forecast Method: ets
Best L1 Lambda: 1.25892541179417
Best L2 Lambda: 31622.7766016838

level1:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	0.7366896	108.2487	90.19259	0.4794640	0.007273129
L1	0.7428002	108.7809	91.18820	0.4839110	0.007337669
L2	0.7393094	108.3709	90.74719	0.4816133	0.007302913
MinT	0.8526916	123.4278	103.89027	0.5539339	0.008424025
Bottom-Up	0.7428002	108.7809	91.18820	0.4839110	0.007337669
OLS	0.7199930	106.3327	88.12128	0.4686253	0.007108752

level2:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.337990	26.08806	16.19408	0.6951245	0.001312544
L1	1.270172	26.48862	16.15987	0.6626358	0.001310588
L2	1.270607	26.46033	16.14271	0.6626429	0.001309192
MinT	1.452039	30.03909	18.59099	0.7660198	0.001510727
Bottom-Up	1.270172	26.48862	16.15987	0.6626358	0.001310588
OLS	1.593667	26.16201	16.59923	0.8094704	0.001344616

level3:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.581466	15.31469	9.483413	0.7560126	0.0007694529
L1	1.502242	15.19703	9.297672	0.7221990	0.0007552628
L2	1.502756	15.18582	9.290154	0.7222490	0.0007546431
MinT	1.676546	16.89684	10.388789	0.8076287	0.0008454768
Bottom-Up	1.502242	15.19703	9.297672	0.7221990	0.0007552628
OLS	1.791454	15.04743	9.444505	0.8356072	0.0007660311

level4:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	3.382912	13.37720	8.213321	0.9816725	0.0006697470
L1	3.262113	12.64463	7.819606	0.9377768	0.0006392155
L2	3.259301	12.64216	7.817864	0.9375147	0.0006390535
MinT	3.528958	13.46368	8.353572	1.0137920	0.0006832112
Bottom-Up	3.262113	12.64463	7.819606	0.9377768	0.0006392155
OLS	3.603293	12.65035	7.911854	0.9971485	0.0006456700

overall:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	2.543811	22.31090	11.12818	0.8693014	0.0009038005
L1	2.444345	22.04076	10.86767	0.8306849	0.0008835345
L2	2.442910	22.00260	10.85444	0.8305125	0.0008824640
MinT	2.670533	24.69363	12.03777	0.9130789	0.0009807057
Bottom-Up	2.444345	22.04076	10.86767	0.8306849	0.0008835345
OLS	2.762070	21.90559	10.96854	0.9161905	0.0008909406

ARIMA + select λ by all 4 methods
Data Set: Labour
Base Forecast Method: arima
Best L1 Lambda: 0.3
Best L2 Lambda: 12000
level1:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	0.6868634	102.1016	84.16711	0.4471413	0.006776232
L1	0.6808237	101.3879	83.43065	0.4432843	0.006719197
L2	0.6728127	100.1063	82.63547	0.4383800	0.006644390
MinT	0.7194580	106.7141	88.07828	0.4683653	0.007102385
Bottom-Up	0.6833140	101.5307	83.94149	0.4452751	0.006749633
OLS	0.6851555	101.6946	83.96335	0.4461286	0.006761504

level2:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.289001	25.57961	15.77884	0.6738338	0.001278388
L1	1.277525	25.46170	15.69750	0.6686530	0.001271962
L2	1.270268	25.44914	15.64708	0.6641488	0.001268488
MinT	1.461402	26.44309	16.55472	0.7557199	0.001342763
Bottom-Up	1.269369	25.53866	15.69873	0.6638679	0.001272994
OLS	1.445760	25.64177	16.05264	0.7449586	0.001300491

level3:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	1.544316	14.94746	9.265750	0.7449085	0.0007515991
L1	1.543133	14.95073	9.242817	0.7452516	0.0007497159
L2	1.541279	15.10894	9.289999	0.7442257	0.0007544260
MinT	1.715888	15.43079	9.684655	0.8169268	0.0007865005
Bottom-Up	1.541354	15.14583	9.306890	0.7443240	0.0007559896
OLS	1.685619	14.95408	9.388000	0.8002121	0.0007615292

level4:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	3.267957	12.67247	7.933397	0.9505420	0.0006470452
L1	3.257568	12.74633	7.936549	0.9484934	0.0006476994
L2	3.250841	12.79270	7.914734	0.9457806	0.0006468442
MinT	3.438562	12.90493	8.066495	0.9868379	0.0006585694
Bottom-Up	3.253194	12.80141	7.918393	0.9459228	0.0006473298
OLS	3.445519	12.76321	7.988944	0.9800800	0.0006518496

level5:

	SMAPE	RMSE	MAE	MASE	msMAPE
Hollyman	2.461097	21.39320	10.74594	0.8451525	0.0008725328
L1	2.453216	21.34723	10.71693	0.8433039	0.0008704689
L2	2.447760	21.28557	10.69690	0.8407748	0.0008695109
MinT	2.629805	22.08794	11.11576	0.8976099	0.0009035565
Bottom-Up	2.449160	21.40587	10.73386	0.8409637	0.0008727012
OLS	2.622417	21.44932	10.84629	0.8872237	0.0008808612