



Appendix H2-1

A comparison of forecasting techniques applied to deposits

Season = 6 days (using all available data)

Forecasting method	Smoothing constants	Seasonality	Measures of forecast error		
			RSME	MAPE	MAD
Simple exponential smoothing	$\alpha = 0.0157$	Simple seasonal relatives	289 298	48.29%	200 066
Simple exponential smoothing	$\alpha = 0.0497$	Moving seasonal relatives	290 137	49.01%	202 102
FIT smoothing (trend = default)	$\alpha = 0.0312$ $\delta = 0.0235$	Simple seasonal relatives	289 489	49.62%	201 713
FIT smoothing (trend = regressed)	$\alpha = 0.0061$ $\delta = 0.0156$	Simple seasonal relatives	283 766	55.48%	208 743
FIT smoothing (trend = default)	$\alpha = 0.0312$ $\delta = 0.0157$	Moving seasonal relatives	289 984	49.21%	203 805
FIT smoothing (trend = regressed)	$\alpha = 0.0081$ $\delta = 0.0312$	Moving seasonal relatives	285 521	56.17%	211 154
Trend regressed exponential smoothing	$\alpha = 0.0053$	Simple seasonal relatives	283 879	55.62%	208 906
Trend regressed exponential smoothing	$\alpha = 0.0121$	Moving seasonal relatives	286 382	56.33%	211 465
Simple average	-	Simple seasonal relatives	284 526	54.49%	209 582
Simple average	-	Moving seasonal relatives	285 434	54.71%	209 800
Moving average	Step = 5	Simple seasonal relatives	299 207	47.91%	194 297
Moving average	Step = 5	Moving seasonal relatives	302 022	47.96%	195 476
Winter's method (trend = default)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Simple seasonal relatives	286 969	59.46%	217 488
Winter's method (trend = regressed)	$\alpha = 0$ $\delta = 0.05$ $\gamma = 0$	Simple seasonal relatives	281 227	52.10%	205 376
Winter's method (trend = default)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Moving seasonal relatives	288 010	59.49%	217 252
Winter's method (trend = regressed)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Moving seasonal relatives	282 251	52.26%	206 208



Appendix H2-2

**A comparison of forecasting techniques applied to deposits
Season = 24 days (using all available data)**

Forecasting method	Smoothing constants	Seasonality	Measures of forecast error		
			RSME	MAPE	MAD
Simple exponential smoothing	$\alpha = 0.1070$	Simple seasonal relatives	247 897	42.01%	171 837
Simple exponential smoothing	$\alpha = 0.0985$	Moving seasonal relatives	246 084	41.02%	171 956
FIT smoothing (trend = default)	$\alpha = 0.1035$ $\delta = 0.0042$	Simple seasonal relatives	248 250	42.17%	171 556
FIT smoothing (trend = regressed)	$\alpha = 0.0782$ $\delta = 3.052 \times 10^{-5}$	Simple seasonal relatives	246 275	42.67%	169 970
FIT smoothing (trend = default)	$\alpha = 0.0927$ $\delta = 0.0078$	Moving seasonal relatives	247 422	41.37%	171 419
FIT smoothing (trend = regressed)	$\alpha = 0.0703$ $\delta = 3.052 \times 10^{-5}$	Moving seasonal relatives	245 944	41.60%	168 784
Trend regressed exponential smoothing	$\alpha = 0.0782$	Simple seasonal relatives	246 355	42.63%	169 999
Trend regressed exponential smoothing	$\alpha = 0.0686$	Moving seasonal relatives	246 109	41.50%	169 800
Simple average	-	Simple seasonal relatives	239 617	47.38%	174 917
Simple average	-	Moving seasonal relatives	243 389	46.33%	172 069
Moving average	Step = 5	Simple seasonal relatives	259 097	43.96%	170 837
Moving average	Step = 5	Moving seasonal relatives	252 281	43.08%	172 429
Winter's method (trend = default)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Simple seasonal relatives	244 884	51.80%	177 029
Winter's method (trend = regressed)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Simple seasonal relatives	240 935	46.09%	172 659
Winter's method (trend = default)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Moving seasonal relatives	249 823	50.66%	176 412
Winter's method (trend = regressed)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Moving seasonal relatives	243 095	44.74%	171 061



Appendix H2-3

**A comparison of forecasting techniques applied to deposits
Season = 26 days (using all available data)**

Forecasting method	Smoothing constants	Seasonality	Measures of forecast error		
			RSME	MAPE	MAD
Simple exponential smoothing	$\alpha = 3.052 \times 10^{-5}$	Simple seasonal relatives	269 709	60.69%	198 165
Simple exponential smoothing	$\alpha = 3.052 \times 10^{-5}$	Moving seasonal relatives	310 031	64.49%	214 801
FIT smoothing (trend = default)	$\alpha = 3.052 \times 10^{-5}$ $\delta = 3.052 \times 10^{-5}$	Simple seasonal relatives	269 709	60.69%	198 165
FIT smoothing (trend = regressed)	$\alpha = 0.0176$ $\delta = 0.0312$	Simple seasonal relatives	274 652	61.87%	201 466
FIT smoothing (trend = default)	$\alpha = 0.0312$ $\delta = 3.052 \times 10^{-5}$	Moving seasonal relatives	310 754	59.77%	214 328
FIT smoothing (trend = regressed)	$\alpha = 0.0263$ $\delta = 0.0235$	Moving seasonal relatives	323 581	66.26%	220 620
Trend regressed exponential smoothing	$\alpha = 0.0386$	Simple seasonal relatives	279 056	62.24%	204 045
Trend regressed exponential smoothing	$\alpha = 0.0400$	Moving seasonal relatives	337 346	68.26%	227 668
Simple average	-	Simple seasonal relatives	268 642	58.08%	197 049
Simple average	-	Moving seasonal relatives	300 737	60.35%	210 346
Moving average	Step = 5	Simple seasonal relatives	306 489	61.13%	216 121
Moving average	Step = 5	Moving seasonal relatives	425 587	63.42%	256 960
Winter's method (trend = default)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Simple seasonal relatives	271 298	62.33%	199 408
Winter's method (trend = regressed)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Simple seasonal relatives	270 903	56.22%	195 660
Winter's method (trend = default)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Moving seasonal relatives	300 831	60.40%	210 397
Winter's method (trend = regressed)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Moving seasonal relatives	300 479	54.46%	204 932



Appendix H2-4

**A comparison of forecasting techniques applied to deposits
Season = 30 days (using all available data)**

Forecasting method	Smoothing constants	Seasonality	Measures of forecast error		
			RSME	MAPE	MAD
Simple exponential smoothing	$\alpha = 0.0530$	Simple seasonal relatives	284 331	43.81%	193 144
Simple exponential smoothing	$\alpha = 0.0341$	Moving seasonal relatives	308 166	47.91%	200 555
FIT smoothing (trend = default)	$\alpha = 0.0312$ $\delta = 0.0468$	Simple seasonal relatives	287 720	44.93%	196 366
FIT smoothing (trend = regressed)	$\alpha = 0.0053$ $\delta = 0.0156$	Simple seasonal relatives	289 100	50.83%	198 830
FIT smoothing (trend = default)	$\alpha = 0.0189$ $\delta = 0.0625$	Moving seasonal relatives	314 911	49.45%	203 407
FIT smoothing (trend = regressed)	$\alpha = 3.052 \times 10^{-5}$ $\delta = 3.052 \times 10^{-5}$	Moving seasonal relatives	356 194	60.94%	229 930
Trend regressed exponential smoothing	$\alpha = 0.0030$	Simple seasonal relatives	290 447	51.14%	199 954
Trend regressed exponential smoothing	$\alpha = 3.052 \times 10^{-5}$	Moving seasonal relatives	353 853	60.10%	227 430
Simple average	-	Simple seasonal relatives	271 597	49.18%	193 199
Simple average	-	Moving seasonal relatives	321 547	58.51%	207 582
Moving average	Step = 5	Simple seasonal relatives	322 968	47.09%	202 033
Moving average	Step = 5	Moving seasonal relatives	432 587	55.25%	239 110
Winter's method (trend = default)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Simple seasonal relatives	272 934	50.13%	194 179
Winter's method (trend = regressed)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Simple seasonal relatives	274 551	45.35%	192 724
Winter's method (trend = default)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Moving seasonal relatives	309 540	54.24%	200 702
Winter's method (trend = regressed)	$\alpha = 0$ $\delta = 0$ $\gamma = 0$	Moving seasonal relatives	307 072	49.69%	202 899