

## Appendix B. Further Details of Theoretical and Empirical Results

Exact covariances of the estimators from group  $A^{(j)} = \{RV_{AC1}, RV\}$  starting from  $j$ th intradaily price and  $\overline{RV}$ ,  $RV_{TS}$  for integers  $H$  and  $k$  are:

$$\begin{aligned}
\text{Cov}\left(RV_{t+H,H}^{A^{(j)}}, RV_{t-k,1}^{A^{(j)}}\right) &= \sum_{i=1}^p \frac{a_i^2}{\lambda_i^2} \left(1 - e^{-\lambda_i \overline{M}h}\right)^2 \frac{1 - e^{-\lambda_i H}}{1 - e^{-\lambda_i}} e^{-\lambda_i(h+k)} \\
\text{Cov}\left(RV_{t+H,H}^{A^{(j)}}, \overline{RV}_{t-k,1}\right) &= \sum_{s=0}^{H-1} \text{Cov}\left(IV_{t+s+j'/M+\overline{M}h,\overline{M}h}, \frac{1}{m} \sum_{j=0}^{m-1} IV_{t-k-1+j/M+\overline{M}h,\overline{M}h}\right) \\
&= \frac{1}{m} \sum_{i=1}^p \frac{a_i^2}{\lambda_i^2} \left(1 - e^{-\lambda_i \overline{M}h}\right)^2 \frac{(1 - e^{-\lambda_i h})(1 - e^{-\lambda_i H})}{(1 - e^{\lambda_i/M})(1 - e^{-\lambda_i})} e^{-\lambda_i(k+j'/M)} \\
\text{Cov}\left(RV_{t+H,H}^{A^{(j)}}, RV_{t-k,1}^{TS}\right) &= \frac{M}{M - \overline{M}} \left(\text{Cov}\left(RV_{t+H,H}^{A^{(j)}}, \overline{RV}_{t-k,1}\right) - \frac{\overline{M}}{M} \text{Cov}\left(RV_{t+H,H}^{A^{(j)}}, IV_{t-k,1}\right)\right) \\
\text{Cov}\left(\overline{RV}_{t+H,H}, \overline{RV}_{t-k,1}\right) &= \sum_{s=0}^{H-1} \text{Cov}\left(\frac{1}{m} \sum_{j'=0}^{m-1} IV_{t+k+j'/M+\overline{M}h,\overline{M}h}, \frac{1}{m} \sum_{j=0}^{m-1} IV_{t-k-1+j/M+\overline{M}h,\overline{M}h}\right) \\
&= \frac{1}{m^2} \sum_{i=1}^p \frac{a_i^2}{\lambda_i^2} \left(1 - e^{-\lambda_i \overline{M}h}\right)^2 \frac{(1 - e^{-\lambda_i h})^2 (1 - e^{-\lambda_i H})}{(1 - e^{\lambda_i/M})^2 (1 - e^{-\lambda_i})} e^{-\lambda_i k} \\
\text{Cov}\left(\overline{RV}_{t+H,H}, RV_{t-k,1}^{TS}\right) &= \frac{M}{M - \overline{M}} \left(\text{Cov}\left(\overline{RV}_{t+H,H}, \overline{RV}_{t-k,1}\right) - \frac{\overline{M}}{M} \text{Cov}\left(\overline{RV}_{t+H,H}, IV_{t-k,1}\right)\right) \\
\text{Cov}\left(RV_{t+H,H}^{TS}, RV_{t-k,1}^{TS}\right) &= \frac{M}{M - \overline{M}} \left(\text{Cov}\left(\overline{RV}_{t+H,H}, RV_{t-k,1}^{TS}\right) - \frac{\overline{M}}{M} \text{Cov}\left(IV_{t+H,H}, RV_{t-k,1}^{TS}\right)\right)
\end{aligned} \tag{0.1}$$

As  $1/M, 1/\overline{M}, \overline{M}/M \downarrow 0$ ,  $\overline{M}h = \overline{M}m/M = \overline{M}(M+1)/((\overline{M}+1)M) \uparrow 1$ ,  $(1 - e^{-\lambda_i h})/(1 - e^{-\lambda_i/M}) \rightarrow m$  and  $\text{Cov}(RV_{t+H,H}^S, RV_{t-k,1}^T) \rightarrow \text{Cov}(IV_{t+H,H}, IV_{t-k,1})$ ,  $S, T \in \{A_j \cup B\}$  with

$$\text{Cov}(IV_{t+H,H}, IV_{t-k,1}) = \sum_{i=1}^p \frac{a_i^2}{\lambda_i^2} \left(1 - e^{-\lambda_i}\right) \left(1 - e^{-\lambda_i H}\right) e^{-\lambda_i k}$$

To summarize the findings, we present all covariances in the following table. For convenience we define four terms:  $V_E^i = \frac{a_i^2}{\lambda_i^2} (1 - e^{-\lambda_i H})^2$ ,  $A_i = \frac{1 - e^{-\lambda_i \overline{M}h}}{1 - e^{-\lambda_i}}$ ,  $C_{IV}^i = \frac{a_i^2}{\lambda_i^2} (1 - e^{-\lambda_i})(1 - e^{-\lambda_i H}) e^{-\lambda_i k}$  and  $B_i = \frac{1 - e^{-\lambda_i h}}{(1 - e^{-\lambda_i/M})m}$ . The values associated with the individual eigenvalues of the covariances of the form  $\text{Cov}(RV_{t+H,H}, RV_{t-k,1})$  can be represented as:

	$\text{Var}(E(\cdot   S_\tau))$	$\text{Cov}(\cdot, IV_{t-k,1})$	$\text{Cov}(\cdot, RV_{t-k,1}^{A^{(j)}})$	$\text{Cov}(\cdot, \overline{RV}_{t-k,1})$	$\text{Cov}(\cdot, RV_{t-k,1}^{TS})$
$IV_{t+H,H}$	$V_E^i$	$C_{IV}^i$	$C_{IV}^i A_i e^{-\lambda_i(m-1-j)/M}$	$C_{IV}^i A_i B_i$	$\frac{M\{1,3\} - \overline{M}\{1,1\}}{M - \overline{M}}$
$RV_{t+H,H}^{A^{(j)}}$	$V_E^i A_i^2 e^{-\lambda_i \frac{2j}{M}}$	$C_{IV}^i A_i e^{-\lambda_i \frac{j}{M}}$	$C_{IV}^i A_i^2 e^{-\lambda_i \frac{m-1}{M}}$	$C_{IV}^i A_i^2 B_i e^{-\lambda_i \frac{j}{M}}$	$\frac{M\{2,3\} - \overline{M}\{2,1\}}{M - \overline{M}}$
$\overline{RV}_{t+H,H}$	$V_E^i A_i^2 B_i^2$	$C_{IV}^i A_i B_i$	$C_{IV}^i A_i^2 B_i e^{-\lambda_i \frac{m-1-j}{M}}$	$C_{IV}^i A_i^2 B_i^2$	$\frac{M\{3,3\} - \overline{M}\{3,1\}}{M - \overline{M}}$
$RV_{t+H,H}^{TS}$	$V_E^i \left(\frac{MA_i B_i - \overline{M}}{M - \overline{M}}\right)^2$	$\frac{M\{3,1\} - \overline{M}\{1,1\}}{M - \overline{M}}$	$\frac{M\{3,2\} - \overline{M}\{1,2\}}{M - \overline{M}}$	$\frac{M\{3,3\} - \overline{M}\{1,3\}}{M - \overline{M}}$	$\frac{M\{3,4\} - \overline{M}\{1,4\}}{M - \overline{M}}$

Term  $\{1,1\}$  corresponds to  $C_{IV}^i$ ,  $\{1,3\}$  corresponds to  $C_{IV}^i A_i B_i$ , etc. Using this table, we can construct the covariances of interest by summing up the terms in the table from 1 to  $p$ . For example,  $\text{Cov}\left(RV_{t+H,H}^{A^{(j)}}, IV_{t-k,1}\right) = \sum_{i=1}^p C_{IV}^i A_i e^{-\lambda_i \frac{j}{M}}$ , and  $\text{Cov}\left(\overline{RV}_{t+H,H}, RV_{t-k,1}^{TS}\right) = \sum_{i=1}^p C_{IV}^i A_i B_i \frac{MA_i B_i - \overline{M}}{M - \overline{M}}$ .

Table B-1: Theoretical  $R^2$  Comparison of MIDAS approach for the M1 – M3 models, Infeasible IV regression.

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
LHS: $IV, \sigma^2 = 0.0000, \kappa = 1.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.799	0.686	0.822	0.817	<b>0.874</b>	0.822	0.776	0.834	0.830	<b>0.874</b>	0.822	0.776	0.834	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.856	0.827	0.861	0.832	<b>0.874</b>	0.856	0.836	0.861	0.839	<b>0.874</b>	0.856	0.836	0.861	0.839
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	<b>0.866</b>	0.856	<b>0.867</b>	0.783	<b>0.874</b>	<b>0.866</b>	0.856	<b>0.868</b>	0.814	<b>0.874</b>	<b>0.866</b>	0.856	<b>0.868</b>	0.814
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.346	0.240	0.375	0.372	<b>0.460</b>	0.390	0.327	0.407	0.406	<b>0.460</b>	0.390	0.328	0.407	0.406
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.422	0.381	0.429	0.415	<b>0.460</b>	0.439	0.411	0.445	0.434	<b>0.460</b>	0.439	0.411	0.445	0.434
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	<b>0.437</b>	0.422	<b>0.440</b>	0.396	<b>0.460</b>	<b>0.452</b>	0.439	<b>0.454</b>	0.421	<b>0.460</b>	<b>0.452</b>	0.439	<b>0.454</b>	0.421
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.875	0.775	0.894	0.888	<b>0.936</b>	0.900	0.869	0.908	0.905	<b>0.936</b>	0.900	0.869	0.908	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.922	0.898	<b>0.926</b>	0.895	<b>0.936</b>	0.923	0.910	<b>0.926</b>	0.908	<b>0.936</b>	0.923	0.910	<b>0.926</b>	0.908
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	<b>0.930</b>	0.922	<b>0.932</b>	0.841	<b>0.936</b>	<b>0.930</b>	0.923	<b>0.932</b>	0.888	<b>0.936</b>	<b>0.930</b>	0.923	<b>0.932</b>	0.888
LHS: $IV, \sigma^2 = 0.0050, \kappa = 1.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.663	0.572	0.822	0.816	<b>0.874</b>	0.768	0.736	0.833	0.830	<b>0.874</b>	0.768	0.736	0.833	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.574	0.521	0.854	0.823	<b>0.874</b>	0.737	0.718	0.854	0.834	<b>0.874</b>	0.737	0.718	0.854	0.834
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.395	0.340	0.819	0.721	<b>0.874</b>	0.668	0.642	0.832	0.789	<b>0.874</b>	0.668	0.642	0.832	0.789
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.177	0.136	0.374	0.371	<b>0.460</b>	0.284	0.251	0.407	0.405	<b>0.460</b>	0.285	0.252	0.407	0.405
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.110	0.090	0.409	0.390	<b>0.460</b>	0.225	0.202	0.430	0.417	<b>0.460</b>	0.226	0.204	0.430	0.417
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.053	0.041	0.321	0.259	<b>0.460</b>	0.146	0.125	0.376	0.339	<b>0.460</b>	0.149	0.128	0.376	0.340
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.748	0.661	0.893	0.887	<b>0.936</b>	0.862	0.840	0.908	0.905	<b>0.936</b>	0.862	0.840	0.908	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.648	0.593	0.920	0.887	<b>0.936</b>	0.837	0.822	0.921	0.905	<b>0.936</b>	0.837	0.823	0.921	0.905
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.455	0.393	0.885	0.782	<b>0.936</b>	0.782	0.761	0.904	0.871	<b>0.936</b>	0.784	0.763	0.904	0.871
LHS: $IV, \sigma^2 = 0.0100, \kappa = 1.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.519	0.442	0.821	0.815	<b>0.874</b>	0.717	0.688	0.833	0.830	<b>0.874</b>	0.717	0.688	0.833	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.321	0.270	0.837	0.802	<b>0.874</b>	0.632	0.602	0.842	0.823	<b>0.874</b>	0.632	0.603	0.842	0.823
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.159	0.126	0.709	0.591	<b>0.874</b>	0.507	0.464	0.785	0.743	<b>0.874</b>	0.514	0.475	0.785	0.743
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.096	0.075	0.371	0.368	<b>0.460</b>	0.209	0.183	0.405	0.403	<b>0.460</b>	0.210	0.184	0.405	0.403
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.039	0.030	0.367	0.339	<b>0.460</b>	0.119	0.100	0.403	0.386	<b>0.460</b>	0.122	0.103	0.403	0.386
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.015	0.012	0.183	0.131	<b>0.460</b>	0.057	0.046	0.290	0.246	<b>0.460</b>	0.060	0.048	0.290	0.247
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.600	0.521	0.893	0.886	<b>0.936</b>	0.824	0.803	0.907	0.905	<b>0.936</b>	0.824	0.803	0.907	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.375	0.317	0.904	0.867	<b>0.936</b>	0.753	0.728	0.913	0.897	<b>0.936</b>	0.757	0.734	0.913	0.897
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.188	0.150	0.778	0.653	<b>0.936</b>	0.637	0.593	0.870	0.838	<b>0.936</b>	0.659	0.626	0.870	0.838
LHS: $IV, \sigma^2 = 0.0150, \kappa = 1.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.399	0.334	0.819	0.813	<b>0.874</b>	0.669	0.639	0.832	0.829	<b>0.874</b>	0.670	0.639	0.832	0.829
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.189	0.152	0.813	0.771	<b>0.874</b>	0.539	0.500	0.828	0.809	<b>0.874</b>	0.543	0.507	0.828	0.809
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.080	0.062	0.582	0.456	<b>0.874</b>	0.378	0.330	0.740	0.693	<b>0.874</b>	0.399	0.356	0.740	0.693

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
$M2^5_{min}$	<b>0.586</b>	<b>0.445</b>	0.058	0.045	0.368	0.364	<b>0.460</b>	0.156	0.133	0.403	0.401	<b>0.460</b>	0.158	0.136	0.403	0.401
$M2^1_{min}$	<b>0.586</b>	<b>0.445</b>	0.019	0.015	0.316	0.280	<b>0.460</b>	0.069	0.056	0.372	0.351	<b>0.460</b>	0.072	0.058	0.373	0.352
$M2^{20}_{sec}$	<b>0.586</b>	<b>0.445</b>	0.007	0.005	0.108	0.072	<b>0.460</b>	0.029	0.022	0.223	0.178	<b>0.460</b>	0.031	0.024	0.224	0.180
$M3^5_{min}$	<b>0.945</b>	<b>0.934</b>	0.470	0.399	0.891	0.885	<b>0.936</b>	0.787	0.763	0.907	0.904	<b>0.936</b>	0.788	0.765	0.907	0.904
$M3^1_{min}$	<b>0.945</b>	<b>0.934</b>	0.224	0.181	0.880	0.837	<b>0.936</b>	0.669	0.630	0.902	0.887	<b>0.936</b>	0.685	0.654	0.902	0.887
$M3^{20}_{sec}$	<b>0.945</b>	<b>0.934</b>	0.096	0.074	0.649	0.513	<b>0.936</b>	0.498	0.442	0.837	0.800	<b>0.936</b>	0.556	0.514	0.837	0.801
LHS: $IV, \sigma^2 = 0.0200, \kappa = 1.5$																
$M1^5_{min}$	<b>0.891</b>	<b>0.871</b>	0.308	0.253	0.818	0.811	<b>0.874</b>	0.624	0.591	0.831	0.828	<b>0.874</b>	0.625	0.592	0.831	0.828
$M1^1_{min}$	<b>0.891</b>	<b>0.871</b>	0.121	0.095	0.781	0.732	<b>0.874</b>	0.456	0.411	0.814	0.793	<b>0.874</b>	0.468	0.428	0.814	0.793
$M1^{20}_{sec}$	<b>0.891</b>	<b>0.871</b>	0.048	0.036	0.466	0.346	<b>0.874</b>	0.282	0.237	0.697	0.645	<b>0.874</b>	0.313	0.271	0.697	0.645
$M2^5_{min}$	<b>0.586</b>	<b>0.445</b>	0.038	0.030	0.364	0.359	<b>0.460</b>	0.118	0.099	0.401	0.398	<b>0.460</b>	0.121	0.102	0.401	0.398
$M2^1_{min}$	<b>0.586</b>	<b>0.445</b>	0.011	0.009	0.264	0.225	<b>0.460</b>	0.044	0.035	0.342	0.318	<b>0.460</b>	0.047	0.037	0.343	0.319
$M2^{20}_{sec}$	<b>0.586</b>	<b>0.445</b>	0.004	0.003	0.068	0.044	<b>0.460</b>	0.017	0.013	0.172	0.131	<b>0.460</b>	0.018	0.014	0.175	0.133
$M3^5_{min}$	<b>0.945</b>	<b>0.934</b>	0.367	0.305	0.890	0.883	<b>0.936</b>	0.750	0.721	0.906	0.903	<b>0.936</b>	0.754	0.728	0.906	0.903
$M3^1_{min}$	<b>0.945</b>	<b>0.934</b>	0.145	0.114	0.850	0.798	<b>0.936</b>	0.586	0.536	0.891	0.876	<b>0.936</b>	0.620	0.584	0.891	0.876
$M3^{20}_{sec}$	<b>0.945</b>	<b>0.934</b>	0.057	0.044	0.527	0.396	<b>0.936</b>	0.384	0.328	0.804	0.762	<b>0.936</b>	0.469	0.422	0.805	0.764
LHS: $IV, \sigma^2 = 0.0250, \kappa = 1.5$																
$M1^5_{min}$	<b>0.891</b>	<b>0.871</b>	0.241	0.195	0.816	0.809	<b>0.874</b>	0.582	0.545	0.830	0.826	<b>0.874</b>	0.584	0.549	0.830	0.826
$M1^1_{min}$	<b>0.891</b>	<b>0.871</b>	0.083	0.065	0.745	0.687	<b>0.874</b>	0.385	0.337	0.798	0.777	<b>0.874</b>	0.404	0.363	0.798	0.777
$M1^{20}_{sec}$	<b>0.891</b>	<b>0.871</b>	0.031	0.024	0.371	0.264	<b>0.874</b>	0.213	0.174	0.657	0.598	<b>0.874</b>	0.248	0.210	0.657	0.600
$M2^5_{min}$	<b>0.586</b>	<b>0.445</b>	0.027	0.021	0.360	0.353	<b>0.460</b>	0.091	0.075	0.398	0.394	<b>0.460</b>	0.095	0.078	0.398	0.394
$M2^1_{min}$	<b>0.586</b>	<b>0.445</b>	0.007	0.006	0.219	0.180	<b>0.460</b>	0.030	0.023	0.314	0.287	<b>0.460</b>	0.032	0.025	0.315	0.288
$M2^{20}_{sec}$	<b>0.586</b>	<b>0.445</b>	0.003	0.002	0.047	0.030	<b>0.460</b>	0.011	0.009	0.135	0.098	<b>0.460</b>	0.012	0.009	0.138	0.101
$M3^5_{min}$	<b>0.945</b>	<b>0.934</b>	0.289	0.236	0.888	0.880	<b>0.936</b>	0.712	0.678	0.905	0.902	<b>0.936</b>	0.721	0.692	0.905	0.902
$M3^1_{min}$	<b>0.945</b>	<b>0.934</b>	0.100	0.077	0.814	0.754	<b>0.936</b>	0.507	0.452	0.880	0.864	<b>0.936</b>	0.562	0.521	0.880	0.864
$M3^{20}_{sec}$	<b>0.945</b>	<b>0.934</b>	0.038	0.029	0.425	0.306	<b>0.936</b>	0.297	0.246	0.772	0.722	<b>0.936</b>	0.395	0.347	0.774	0.729
LHS: $IV, \sigma^2 = 0.0300, \kappa = 1.5$																
$M1^5_{min}$	<b>0.891</b>	<b>0.871</b>	0.192	0.154	0.813	0.806	<b>0.874</b>	0.541	0.501	0.829	0.825	<b>0.874</b>	0.546	0.508	0.829	0.825
$M1^1_{min}$	<b>0.891</b>	<b>0.871</b>	0.060	0.046	0.704	0.640	<b>0.874</b>	0.324	0.277	0.783	0.760	<b>0.874</b>	0.351	0.309	0.783	0.760
$M1^{20}_{sec}$	<b>0.891</b>	<b>0.871</b>	0.022	0.017	0.297	0.205	<b>0.874</b>	0.164	0.132	0.619	0.554	<b>0.874</b>	0.200	0.166	0.619	0.557
$M2^5_{min}$	<b>0.586</b>	<b>0.445</b>	0.020	0.015	0.354	0.346	<b>0.460</b>	0.072	0.058	0.395	0.390	<b>0.460</b>	0.075	0.061	0.395	0.390
$M2^1_{min}$	<b>0.586</b>	<b>0.445</b>	0.005	0.004	0.181	0.145	<b>0.460</b>	0.022	0.017	0.288	0.259	<b>0.460</b>	0.023	0.018	0.289	0.260
$M2^{20}_{sec}$	<b>0.586</b>	<b>0.445</b>	0.002	0.001	0.034	0.021	<b>0.460</b>	0.008	0.006	0.107	0.075	<b>0.460</b>	0.009	0.007	0.110	0.078
$M3^5_{min}$	<b>0.945</b>	<b>0.934</b>	0.231	0.186	0.886	0.877	<b>0.936</b>	0.675	0.635	0.904	0.901	<b>0.936</b>	0.689	0.658	0.904	0.901
$M3^1_{min}$	<b>0.945</b>	<b>0.934</b>	0.072	0.056	0.774	0.707	<b>0.936</b>	0.436	0.379	0.869	0.852	<b>0.936</b>	0.509	0.465	0.869	0.852
$M3^{20}_{sec}$	<b>0.945</b>	<b>0.934</b>	0.026	0.020	0.344	0.239	<b>0.936</b>	0.233	0.189	0.740	0.681	<b>0.936</b>	0.334	0.286	0.745	0.694

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
LHS: $IV, \sigma^2 = 0.0050, \kappa = 2.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.652	0.572	0.822	0.816	<b>0.874</b>	0.764	0.736	0.833	0.830	<b>0.874</b>	0.764	0.736	0.833	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.533	0.521	0.852	0.823	<b>0.874</b>	0.722	0.718	0.853	0.834	<b>0.874</b>	0.722	0.718	0.853	0.834
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.341	0.340	0.805	0.721	<b>0.874</b>	0.642	0.642	0.825	0.789	<b>0.874</b>	0.643	0.642	0.825	0.789
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.167	0.136	0.373	0.371	<b>0.460</b>	0.277	0.251	0.406	0.405	<b>0.460</b>	0.277	0.252	0.407	0.405
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.093	0.090	0.405	0.390	<b>0.460</b>	0.205	0.202	0.427	0.417	<b>0.460</b>	0.207	0.204	0.427	0.417
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.042	0.041	0.297	0.259	<b>0.460</b>	0.125	0.125	0.362	0.339	<b>0.460</b>	0.128	0.128	0.362	0.340
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.735	0.661	0.893	0.887	<b>0.936</b>	0.859	0.840	0.908	0.905	<b>0.936</b>	0.859	0.840	0.908	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.604	0.593	0.918	0.887	<b>0.936</b>	0.825	0.822	0.920	0.905	<b>0.936</b>	0.826	0.823	0.920	0.905
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.395	0.393	0.872	0.782	<b>0.936</b>	0.761	0.761	0.899	0.871	<b>0.936</b>	0.764	0.763	0.899	0.871
LHS: $IV, \sigma^2 = 0.0100, \kappa = 2.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.492	0.442	0.820	0.815	<b>0.874</b>	0.707	0.688	0.833	0.830	<b>0.874</b>	0.707	0.688	0.833	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.274	0.270	0.831	0.802	<b>0.874</b>	0.604	0.602	0.839	0.823	<b>0.874</b>	0.606	0.603	0.839	0.823
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.127	0.126	0.671	0.591	<b>0.874</b>	0.465	0.464	0.771	0.743	<b>0.874</b>	0.476	0.475	0.771	0.743
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.085	0.075	0.371	0.368	<b>0.460</b>	0.196	0.182	0.405	0.403	<b>0.460</b>	0.197	0.184	0.405	0.403
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.031	0.030	0.353	0.339	<b>0.460</b>	0.101	0.100	0.394	0.386	<b>0.460</b>	0.104	0.103	0.394	0.386
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.012	0.012	0.155	0.131	<b>0.460</b>	0.046	0.046	0.267	0.246	<b>0.460</b>	0.048	0.048	0.268	0.247
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.570	0.521	0.892	0.886	<b>0.936</b>	0.816	0.803	0.907	0.905	<b>0.936</b>	0.816	0.803	0.907	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.321	0.317	0.898	0.867	<b>0.936</b>	0.729	0.727	0.910	0.897	<b>0.936</b>	0.735	0.734	0.910	0.897
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.150	0.150	0.740	0.653	<b>0.936</b>	0.594	0.593	0.860	0.838	<b>0.936</b>	0.626	0.626	0.860	0.838
LHS: $IV, \sigma^2 = 0.0150, \kappa = 2.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.364	0.334	0.819	0.813	<b>0.874</b>	0.653	0.638	0.832	0.829	<b>0.874</b>	0.654	0.639	0.832	0.829
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.154	0.152	0.800	0.771	<b>0.874</b>	0.501	0.500	0.822	0.809	<b>0.874</b>	0.509	0.507	0.822	0.809
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.062	0.062	0.527	0.456	<b>0.874</b>	0.330	0.330	0.720	0.693	<b>0.874</b>	0.357	0.356	0.720	0.693
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.049	0.045	0.367	0.364	<b>0.460</b>	0.140	0.133	0.402	0.401	<b>0.460</b>	0.143	0.136	0.403	0.401
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.015	0.015	0.292	0.280	<b>0.460</b>	0.056	0.056	0.359	0.351	<b>0.460</b>	0.059	0.058	0.359	0.352
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.005	0.005	0.087	0.072	<b>0.460</b>	0.022	0.022	0.198	0.178	<b>0.460</b>	0.024	0.024	0.200	0.180
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.429	0.399	0.891	0.885	<b>0.936</b>	0.774	0.763	0.906	0.904	<b>0.936</b>	0.776	0.765	0.906	0.904
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.183	0.181	0.867	0.837	<b>0.936</b>	0.632	0.630	0.897	0.887	<b>0.936</b>	0.656	0.654	0.897	0.887
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.074	0.074	0.591	0.513	<b>0.936</b>	0.443	0.442	0.822	0.800	<b>0.936</b>	0.514	0.514	0.822	0.801
LHS: $IV, \sigma^2 = 0.0200, \kappa = 2.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.272	0.253	0.817	0.811	<b>0.874</b>	0.603	0.591	0.831	0.828	<b>0.874</b>	0.604	0.592	0.831	0.828
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.096	0.095	0.760	0.732	<b>0.874</b>	0.413	0.411	0.805	0.793	<b>0.874</b>	0.429	0.428	0.805	0.793
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.036	0.036	0.405	0.346	<b>0.874</b>	0.237	0.237	0.672	0.645	<b>0.874</b>	0.271	0.271	0.673	0.645
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.032	0.030	0.362	0.359	<b>0.460</b>	0.103	0.099	0.399	0.398	<b>0.460</b>	0.106	0.102	0.400	0.398
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.009	0.009	0.237	0.225	<b>0.460</b>	0.035	0.035	0.325	0.318	<b>0.460</b>	0.037	0.037	0.326	0.319
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.003	0.003	0.054	0.044	<b>0.460</b>	0.013	0.013	0.148	0.131	<b>0.460</b>	0.014	0.014	0.151	0.133

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.324	0.305	0.889	0.883	<b>0.936</b>	0.731	0.721	0.906	0.903	<b>0.936</b>	0.737	0.728	0.906	0.903
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.115	0.114	0.829	0.798	<b>0.936</b>	0.538	0.536	0.885	0.876	<b>0.936</b>	0.585	0.584	0.885	0.876
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.044	0.044	0.462	0.396	<b>0.936</b>	0.328	0.328	0.785	0.762	<b>0.936</b>	0.422	0.422	0.786	0.764
LHS: $IV, \sigma^2 = 0.0250, \kappa = 2.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.207	0.195	0.814	0.809	<b>0.874</b>	0.555	0.545	0.829	0.826	<b>0.874</b>	0.559	0.549	0.829	0.826
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.065	0.065	0.715	0.687	<b>0.874</b>	0.339	0.337	0.787	0.777	<b>0.874</b>	0.364	0.362	0.787	0.777
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.024	0.024	0.313	0.264	<b>0.874</b>	0.174	0.174	0.627	0.598	<b>0.874</b>	0.210	0.210	0.628	0.600
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.022	0.021	0.356	0.353	<b>0.460</b>	0.078	0.075	0.396	0.394	<b>0.460</b>	0.081	0.078	0.396	0.394
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.006	0.006	0.190	0.180	<b>0.460</b>	0.024	0.023	0.294	0.287	<b>0.460</b>	0.025	0.025	0.295	0.288
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.002	0.002	0.036	0.030	<b>0.460</b>	0.009	0.009	0.113	0.098	<b>0.460</b>	0.009	0.009	0.116	0.101
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.249	0.236	0.886	0.880	<b>0.936</b>	0.687	0.678	0.905	0.902	<b>0.936</b>	0.700	0.692	0.905	0.902
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.078	0.077	0.784	0.754	<b>0.936</b>	0.453	0.452	0.872	0.864	<b>0.936</b>	0.522	0.521	0.872	0.864
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.029	0.029	0.361	0.306	<b>0.936</b>	0.246	0.246	0.748	0.722	<b>0.936</b>	0.347	0.347	0.752	0.729
LHS: $IV, \sigma^2 = 0.0300, \kappa = 2.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.162	0.153	0.811	0.806	<b>0.874</b>	0.510	0.501	0.828	0.825	<b>0.874</b>	0.517	0.508	0.828	0.825
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.047	0.046	0.667	0.640	<b>0.874</b>	0.279	0.277	0.770	0.760	<b>0.874</b>	0.310	0.309	0.770	0.760
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.017	0.017	0.245	0.205	<b>0.874</b>	0.132	0.132	0.585	0.554	<b>0.874</b>	0.166	0.166	0.587	0.557
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.016	0.015	0.349	0.346	<b>0.460</b>	0.060	0.058	0.392	0.390	<b>0.460</b>	0.063	0.061	0.392	0.390
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.004	0.004	0.154	0.145	<b>0.460</b>	0.017	0.017	0.266	0.259	<b>0.460</b>	0.018	0.018	0.267	0.260
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.001	0.001	0.026	0.021	<b>0.460</b>	0.006	0.006	0.088	0.075	<b>0.460</b>	0.007	0.007	0.091	0.078
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.195	0.186	0.883	0.877	<b>0.936</b>	0.644	0.635	0.903	0.901	<b>0.936</b>	0.665	0.658	0.903	0.901
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.056	0.056	0.736	0.706	<b>0.936</b>	0.381	0.379	0.859	0.852	<b>0.936</b>	0.466	0.465	0.859	0.852
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.020	0.020	0.285	0.239	<b>0.936</b>	0.189	0.189	0.710	0.681	<b>0.936</b>	0.287	0.286	0.719	0.694

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
LHS: $IV, \sigma^2 = 0.0050, \kappa = 2.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.640	0.572	0.822	0.816	<b>0.874</b>	0.760	0.736	0.833	0.830	<b>0.874</b>	0.760	0.736	0.833	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.498	0.521	0.850	0.823	<b>0.874</b>	0.709	0.718	0.852	0.834	<b>0.874</b>	0.709	0.718	0.852	0.834
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.300	0.340	0.793	0.721	<b>0.874</b>	0.620	0.642	0.819	0.789	<b>0.874</b>	0.621	0.642	0.819	0.789
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.158	0.136	0.373	0.371	<b>0.460</b>	0.270	0.251	0.406	0.405	<b>0.460</b>	0.270	0.252	0.406	0.405
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.080	0.090	0.400	0.390	<b>0.460</b>	0.190	0.202	0.424	0.417	<b>0.460</b>	0.191	0.204	0.424	0.417
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.034	0.041	0.277	0.259	<b>0.460</b>	0.109	0.125	0.350	0.339	<b>0.460</b>	0.112	0.128	0.350	0.340
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.724	0.661	0.893	0.887	<b>0.936</b>	0.856	0.840	0.908	0.905	<b>0.936</b>	0.856	0.840	0.908	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.566	0.593	0.916	0.887	<b>0.936</b>	0.815	0.822	0.919	0.905	<b>0.936</b>	0.816	0.823	0.919	0.905
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.349	0.393	0.860	0.782	<b>0.936</b>	0.743	0.761	0.895	0.871	<b>0.936</b>	0.747	0.763	0.895	0.871
LHS: $IV, \sigma^2 = 0.0100, \kappa = 2.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.467	0.442	0.820	0.815	<b>0.874</b>	0.698	0.688	0.832	0.830	<b>0.874</b>	0.698	0.688	0.832	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.239	0.270	0.825	0.802	<b>0.874</b>	0.580	0.602	0.835	0.823	<b>0.874</b>	0.583	0.603	0.835	0.823
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.105	0.126	0.637	0.591	<b>0.874</b>	0.430	0.464	0.759	0.743	<b>0.874</b>	0.445	0.475	0.759	0.743
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.076	0.075	0.370	0.368	<b>0.460</b>	0.184	0.182	0.404	0.403	<b>0.460</b>	0.186	0.184	0.405	0.403
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.025	0.030	0.340	0.339	<b>0.460</b>	0.087	0.100	0.386	0.386	<b>0.460</b>	0.090	0.103	0.386	0.386
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.009	0.012	0.134	0.131	<b>0.460</b>	0.038	0.046	0.249	0.246	<b>0.460</b>	0.040	0.048	0.250	0.247
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.542	0.521	0.892	0.886	<b>0.936</b>	0.809	0.803	0.907	0.905	<b>0.936</b>	0.809	0.803	0.907	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.281	0.317	0.892	0.867	<b>0.936</b>	0.708	0.727	0.907	0.897	<b>0.936</b>	0.717	0.734	0.907	0.897
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.125	0.150	0.705	0.653	<b>0.936</b>	0.556	0.593	0.851	0.838	<b>0.936</b>	0.598	0.626	0.851	0.838
LHS: $IV, \sigma^2 = 0.0150, \kappa = 2.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.335	0.334	0.818	0.813	<b>0.874</b>	0.639	0.638	0.831	0.829	<b>0.874</b>	0.639	0.639	0.831	0.829
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.130	0.152	0.787	0.771	<b>0.874</b>	0.470	0.499	0.816	0.809	<b>0.874</b>	0.480	0.507	0.816	0.809
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.051	0.062	0.481	0.456	<b>0.874</b>	0.294	0.330	0.703	0.693	<b>0.874</b>	0.324	0.356	0.703	0.693
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.043	0.045	0.366	0.364	<b>0.460</b>	0.128	0.133	0.402	0.401	<b>0.460</b>	0.131	0.135	0.402	0.401
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.012	0.015	0.273	0.280	<b>0.460</b>	0.047	0.056	0.347	0.351	<b>0.460</b>	0.050	0.058	0.348	0.352
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.004	0.005	0.072	0.072	<b>0.460</b>	0.018	0.022	0.179	0.178	<b>0.460</b>	0.020	0.024	0.181	0.180
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.395	0.398	0.890	0.885	<b>0.936</b>	0.761	0.763	0.906	0.904	<b>0.936</b>	0.764	0.765	0.906	0.904
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.155	0.181	0.855	0.837	<b>0.936</b>	0.599	0.630	0.893	0.887	<b>0.936</b>	0.631	0.654	0.893	0.887
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.061	0.074	0.543	0.513	<b>0.936</b>	0.398	0.442	0.809	0.800	<b>0.936</b>	0.480	0.514	0.809	0.801
LHS: $IV, \sigma^2 = 0.0200, \kappa = 2.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.244	0.253	0.816	0.811	<b>0.874</b>	0.584	0.590	0.830	0.828	<b>0.874</b>	0.586	0.592	0.830	0.828
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.080	0.095	0.740	0.732	<b>0.874</b>	0.377	0.411	0.797	0.793	<b>0.874</b>	0.398	0.428	0.797	0.793
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.030	0.036	0.359	0.346	<b>0.874</b>	0.205	0.237	0.651	0.645	<b>0.874</b>	0.240	0.271	0.651	0.645
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.027	0.030	0.360	0.359	<b>0.460</b>	0.092	0.098	0.398	0.398	<b>0.460</b>	0.095	0.102	0.398	0.398
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.007	0.009	0.214	0.225	<b>0.460</b>	0.029	0.035	0.311	0.318	<b>0.460</b>	0.031	0.037	0.311	0.318
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.002	0.003	0.044	0.044	<b>0.460</b>	0.011	0.013	0.130	0.131	<b>0.460</b>	0.011	0.014	0.133	0.133

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.291	0.304	0.888	0.883	<b>0.936</b>	0.713	0.721	0.905	0.903	<b>0.936</b>	0.721	0.728	0.905	0.903
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.095	0.114	0.809	0.798	<b>0.936</b>	0.498	0.536	0.879	0.876	<b>0.936</b>	0.555	0.584	0.879	0.876
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.035	0.044	0.412	0.396	<b>0.936</b>	0.286	0.328	0.768	0.762	<b>0.936</b>	0.385	0.422	0.770	0.764
LHS: $IV, \sigma^2 = 0.0250, \kappa = 2.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.182	0.195	0.813	0.809	<b>0.874</b>	0.532	0.544	0.828	0.826	<b>0.874</b>	0.537	0.548	0.828	0.826
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.053	0.064	0.688	0.687	<b>0.874</b>	0.303	0.337	0.777	0.777	<b>0.874</b>	0.332	0.362	0.777	0.777
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.019	0.024	0.271	0.264	<b>0.874</b>	0.147	0.174	0.602	0.598	<b>0.874</b>	0.183	0.210	0.604	0.600
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.019	0.021	0.352	0.353	<b>0.460</b>	0.068	0.075	0.394	0.394	<b>0.460</b>	0.071	0.078	0.394	0.394
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.005	0.006	0.168	0.180	<b>0.460</b>	0.019	0.023	0.278	0.287	<b>0.460</b>	0.021	0.025	0.278	0.288
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.002	0.002	0.029	0.030	<b>0.460</b>	0.007	0.009	0.097	0.098	<b>0.460</b>	0.007	0.009	0.101	0.101
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.219	0.236	0.885	0.880	<b>0.936</b>	0.665	0.678	0.904	0.902	<b>0.936</b>	0.681	0.692	0.904	0.902
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.064	0.077	0.757	0.754	<b>0.936</b>	0.410	0.452	0.864	0.864	<b>0.936</b>	0.489	0.521	0.865	0.864
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.023	0.029	0.314	0.306	<b>0.936</b>	0.210	0.246	0.726	0.722	<b>0.936</b>	0.310	0.347	0.732	0.729
LHS: $IV, \sigma^2 = 0.0300, \kappa = 2.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.140	0.153	0.809	0.806	<b>0.874</b>	0.484	0.501	0.827	0.825	<b>0.874</b>	0.493	0.508	0.827	0.825
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.038	0.046	0.633	0.640	<b>0.874</b>	0.244	0.277	0.758	0.760	<b>0.874</b>	0.278	0.309	0.758	0.760
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.013	0.017	0.208	0.205	<b>0.874</b>	0.110	0.132	0.556	0.554	<b>0.874</b>	0.142	0.166	0.560	0.557
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.013	0.015	0.344	0.346	<b>0.460</b>	0.052	0.058	0.389	0.390	<b>0.460</b>	0.055	0.061	0.389	0.390
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.003	0.004	0.133	0.145	<b>0.460</b>	0.014	0.017	0.248	0.259	<b>0.460</b>	0.015	0.018	0.249	0.260
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.001	0.001	0.021	0.021	<b>0.460</b>	0.005	0.006	0.075	0.075	<b>0.460</b>	0.005	0.007	0.078	0.078
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.169	0.186	0.881	0.877	<b>0.936</b>	0.616	0.635	0.903	0.901	<b>0.936</b>	0.643	0.658	0.903	0.901
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.046	0.056	0.701	0.706	<b>0.936</b>	0.338	0.379	0.850	0.852	<b>0.936</b>	0.431	0.465	0.850	0.852
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.016	0.020	0.244	0.239	<b>0.936</b>	0.159	0.189	0.684	0.681	<b>0.936</b>	0.251	0.286	0.697	0.694

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
LHS: $IV, \sigma^2 = 0.0050, \kappa = 3.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.630	0.572	0.821	0.816	<b>0.874</b>	0.756	0.736	0.833	0.830	<b>0.874</b>	0.756	0.736	0.833	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.467	0.521	0.849	0.823	<b>0.874</b>	0.698	0.718	0.851	0.834	<b>0.874</b>	0.698	0.718	0.851	0.834
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.268	0.340	0.780	0.721	<b>0.874</b>	0.601	0.642	0.813	0.789	<b>0.874</b>	0.602	0.642	0.813	0.789
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.150	0.136	0.373	0.371	<b>0.460</b>	0.263	0.251	0.406	0.405	<b>0.460</b>	0.264	0.252	0.406	0.405
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.071	0.090	0.396	0.390	<b>0.460</b>	0.176	0.202	0.421	0.417	<b>0.460</b>	0.178	0.204	0.421	0.417
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.029	0.041	0.259	0.259	<b>0.460</b>	0.097	0.125	0.339	0.339	<b>0.460</b>	0.100	0.128	0.339	0.340
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.712	0.661	0.893	0.887	<b>0.936</b>	0.853	0.840	0.908	0.905	<b>0.936</b>	0.853	0.840	0.908	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.533	0.593	0.915	0.887	<b>0.936</b>	0.806	0.822	0.918	0.905	<b>0.936</b>	0.807	0.823	0.919	0.905
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.313	0.393	0.848	0.782	<b>0.936</b>	0.725	0.761	0.891	0.871	<b>0.936</b>	0.732	0.763	0.891	0.871
LHS: $IV, \sigma^2 = 0.0100, \kappa = 3.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.445	0.442	0.820	0.815	<b>0.874</b>	0.689	0.688	0.832	0.830	<b>0.874</b>	0.689	0.688	0.832	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.212	0.270	0.819	0.802	<b>0.874</b>	0.559	0.602	0.832	0.823	<b>0.874</b>	0.563	0.603	0.832	0.823
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.090	0.126	0.606	0.591	<b>0.874</b>	0.400	0.464	0.748	0.743	<b>0.874</b>	0.418	0.475	0.748	0.743
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.069	0.075	0.370	0.368	<b>0.460</b>	0.173	0.182	0.404	0.403	<b>0.460</b>	0.176	0.184	0.404	0.403
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.022	0.030	0.327	0.339	<b>0.460</b>	0.077	0.100	0.379	0.386	<b>0.460</b>	0.080	0.103	0.379	0.386
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.008	0.012	0.118	0.131	<b>0.460</b>	0.032	0.046	0.234	0.246	<b>0.460</b>	0.035	0.048	0.235	0.247
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.517	0.521	0.892	0.886	<b>0.936</b>	0.801	0.802	0.907	0.905	<b>0.936</b>	0.802	0.803	0.907	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.250	0.317	0.886	0.867	<b>0.936</b>	0.688	0.727	0.905	0.897	<b>0.936</b>	0.700	0.734	0.905	0.897
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.107	0.150	0.673	0.653	<b>0.936</b>	0.523	0.593	0.843	0.838	<b>0.936</b>	0.574	0.626	0.843	0.838
LHS: $IV, \sigma^2 = 0.0150, \kappa = 3.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.310	0.334	0.818	0.813	<b>0.874</b>	0.625	0.638	0.831	0.829	<b>0.874</b>	0.626	0.639	0.831	0.829
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.112	0.152	0.775	0.771	<b>0.874</b>	0.442	0.499	0.811	0.809	<b>0.874</b>	0.456	0.507	0.811	0.809
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.043	0.062	0.443	0.456	<b>0.874</b>	0.264	0.330	0.688	0.693	<b>0.874</b>	0.297	0.356	0.688	0.693
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.038	0.045	0.364	0.364	<b>0.460</b>	0.117	0.133	0.401	0.401	<b>0.460</b>	0.120	0.135	0.401	0.401
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.010	0.015	0.255	0.280	<b>0.460</b>	0.041	0.056	0.337	0.351	<b>0.460</b>	0.043	0.058	0.337	0.352
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.004	0.005	0.062	0.072	<b>0.460</b>	0.015	0.022	0.163	0.178	<b>0.460</b>	0.017	0.024	0.165	0.180
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.366	0.398	0.890	0.885	<b>0.936</b>	0.750	0.762	0.906	0.904	<b>0.936</b>	0.753	0.765	0.906	0.904
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.134	0.181	0.843	0.837	<b>0.936</b>	0.570	0.630	0.889	0.887	<b>0.936</b>	0.609	0.654	0.889	0.887
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.051	0.074	0.502	0.513	<b>0.936</b>	0.362	0.442	0.797	0.800	<b>0.936</b>	0.451	0.514	0.798	0.801
LHS: $IV, \sigma^2 = 0.0200, \kappa = 3.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.220	0.253	0.815	0.811	<b>0.874</b>	0.566	0.590	0.830	0.828	<b>0.874</b>	0.569	0.592	0.830	0.828
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.068	0.095	0.721	0.732	<b>0.874</b>	0.347	0.411	0.789	0.793	<b>0.874</b>	0.372	0.428	0.789	0.793
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.025	0.036	0.322	0.346	<b>0.874</b>	0.180	0.237	0.632	0.645	<b>0.874</b>	0.216	0.271	0.633	0.645
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.024	0.030	0.357	0.359	<b>0.460</b>	0.082	0.098	0.397	0.398	<b>0.460</b>	0.086	0.101	0.397	0.398
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.006	0.009	0.195	0.225	<b>0.460</b>	0.025	0.035	0.298	0.318	<b>0.460</b>	0.026	0.037	0.299	0.318
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.002	0.003	0.038	0.044	<b>0.460</b>	0.009	0.013	0.116	0.131	<b>0.460</b>	0.010	0.014	0.119	0.133

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.263	0.304	0.887	0.883	<b>0.936</b>	0.697	0.721	0.905	0.903	<b>0.936</b>	0.708	0.728	0.905	0.903
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.082	0.114	0.790	0.798	<b>0.936</b>	0.463	0.536	0.873	0.876	<b>0.936</b>	0.530	0.584	0.873	0.876
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.030	0.044	0.371	0.396	<b>0.936</b>	0.254	0.327	0.752	0.762	<b>0.936</b>	0.355	0.422	0.755	0.764
LHS: $IV, \sigma^2 = 0.0250, \kappa = 3.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.162	0.195	0.811	0.809	<b>0.874</b>	0.511	0.544	0.828	0.826	<b>0.874</b>	0.518	0.548	0.828	0.826
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.045	0.064	0.662	0.687	<b>0.874</b>	0.274	0.337	0.768	0.777	<b>0.874</b>	0.305	0.362	0.768	0.777
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.016	0.024	0.238	0.264	<b>0.874</b>	0.128	0.174	0.580	0.598	<b>0.874</b>	0.162	0.210	0.582	0.600
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.016	0.021	0.349	0.353	<b>0.460</b>	0.060	0.075	0.392	0.394	<b>0.460</b>	0.063	0.078	0.392	0.394
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.004	0.006	0.150	0.180	<b>0.460</b>	0.016	0.023	0.264	0.287	<b>0.460</b>	0.018	0.025	0.264	0.288
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.001	0.002	0.025	0.030	<b>0.460</b>	0.006	0.009	0.086	0.098	<b>0.460</b>	0.006	0.009	0.089	0.101
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.195	0.235	0.883	0.880	<b>0.936</b>	0.644	0.678	0.903	0.902	<b>0.936</b>	0.665	0.692	0.903	0.902
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.054	0.077	0.731	0.754	<b>0.936</b>	0.374	0.451	0.858	0.864	<b>0.936</b>	0.461	0.521	0.858	0.864
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.019	0.029	0.278	0.306	<b>0.936</b>	0.183	0.246	0.706	0.722	<b>0.936</b>	0.280	0.347	0.715	0.729
LHS: $IV, \sigma^2 = 0.0300, \kappa = 3.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.123	0.153	0.807	0.806	<b>0.874</b>	0.460	0.500	0.826	0.825	<b>0.874</b>	0.471	0.508	0.826	0.825
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.032	0.046	0.603	0.640	<b>0.874</b>	0.218	0.277	0.747	0.760	<b>0.874</b>	0.253	0.309	0.747	0.760
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.011	0.017	0.181	0.205	<b>0.874</b>	0.094	0.132	0.531	0.553	<b>0.874</b>	0.124	0.166	0.536	0.557
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.012	0.015	0.340	0.346	<b>0.460</b>	0.045	0.058	0.386	0.390	<b>0.460</b>	0.048	0.061	0.386	0.390
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.003	0.004	0.117	0.145	<b>0.460</b>	0.012	0.017	0.233	0.259	<b>0.460</b>	0.013	0.018	0.234	0.260
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.001	0.001	0.018	0.021	<b>0.460</b>	0.004	0.006	0.065	0.075	<b>0.460</b>	0.004	0.007	0.068	0.078
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.148	0.185	0.879	0.877	<b>0.936</b>	0.591	0.634	0.902	0.901	<b>0.936</b>	0.624	0.657	0.902	0.901
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.039	0.056	0.670	0.706	<b>0.936</b>	0.303	0.379	0.842	0.852	<b>0.936</b>	0.401	0.465	0.842	0.852
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.014	0.020	0.213	0.239	<b>0.936</b>	0.137	0.189	0.660	0.681	<b>0.936</b>	0.224	0.286	0.677	0.694

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
LHS: $IV, \sigma^2 = 0.0050, \kappa = 3.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.619	0.572	0.821	0.816	<b>0.874</b>	0.753	0.736	0.833	0.830	<b>0.874</b>	0.753	0.736	0.833	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.439	0.520	0.847	0.823	<b>0.874</b>	0.687	0.718	0.849	0.834	<b>0.874</b>	0.687	0.718	0.849	0.834
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.242	0.340	0.768	0.721	<b>0.874</b>	0.583	0.641	0.808	0.789	<b>0.874</b>	0.585	0.642	0.808	0.789
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.143	0.136	0.373	0.371	<b>0.460</b>	0.257	0.251	0.406	0.405	<b>0.460</b>	0.258	0.252	0.406	0.405
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.063	0.090	0.392	0.390	<b>0.460</b>	0.165	0.202	0.418	0.417	<b>0.460</b>	0.167	0.204	0.418	0.417
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.026	0.041	0.243	0.259	<b>0.460</b>	0.088	0.125	0.330	0.339	<b>0.460</b>	0.091	0.128	0.330	0.340
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.701	0.661	0.893	0.887	<b>0.936</b>	0.850	0.840	0.908	0.905	<b>0.936</b>	0.850	0.840	0.908	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.503	0.593	0.913	0.887	<b>0.936</b>	0.797	0.822	0.918	0.905	<b>0.936</b>	0.798	0.823	0.918	0.905
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.283	0.393	0.836	0.782	<b>0.936</b>	0.709	0.761	0.887	0.871	<b>0.936</b>	0.718	0.763	0.887	0.871
LHS: $IV, \sigma^2 = 0.0100, \kappa = 3.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.425	0.442	0.820	0.815	<b>0.874</b>	0.680	0.688	0.832	0.830	<b>0.874</b>	0.680	0.688	0.832	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.190	0.270	0.813	0.802	<b>0.874</b>	0.540	0.602	0.829	0.823	<b>0.874</b>	0.545	0.603	0.829	0.823
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.079	0.126	0.578	0.591	<b>0.874</b>	0.375	0.464	0.739	0.743	<b>0.874</b>	0.396	0.475	0.739	0.743
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.063	0.075	0.369	0.368	<b>0.460</b>	0.164	0.182	0.404	0.403	<b>0.460</b>	0.167	0.184	0.404	0.403
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.019	0.030	0.316	0.339	<b>0.460</b>	0.069	0.100	0.372	0.386	<b>0.460</b>	0.072	0.103	0.373	0.386
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.007	0.012	0.106	0.131	<b>0.460</b>	0.028	0.046	0.221	0.246	<b>0.460</b>	0.030	0.048	0.222	0.247
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.494	0.521	0.892	0.886	<b>0.936</b>	0.795	0.802	0.907	0.905	<b>0.936</b>	0.796	0.803	0.907	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.225	0.317	0.880	0.867	<b>0.936</b>	0.670	0.727	0.902	0.897	<b>0.936</b>	0.685	0.734	0.902	0.897
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.094	0.150	0.644	0.653	<b>0.936</b>	0.494	0.593	0.836	0.838	<b>0.936</b>	0.553	0.626	0.836	0.838
LHS: $IV, \sigma^2 = 0.0150, \kappa = 3.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.288	0.333	0.817	0.813	<b>0.874</b>	0.613	0.638	0.831	0.829	<b>0.874</b>	0.614	0.639	0.831	0.829
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.099	0.152	0.763	0.771	<b>0.874</b>	0.418	0.499	0.806	0.809	<b>0.874</b>	0.434	0.507	0.806	0.809
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.037	0.062	0.410	0.456	<b>0.874</b>	0.240	0.330	0.674	0.693	<b>0.874</b>	0.275	0.356	0.675	0.693
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.034	0.045	0.363	0.364	<b>0.460</b>	0.109	0.133	0.400	0.401	<b>0.460</b>	0.112	0.135	0.400	0.401
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.009	0.015	0.240	0.279	<b>0.460</b>	0.036	0.056	0.327	0.351	<b>0.460</b>	0.038	0.058	0.328	0.352
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.003	0.005	0.055	0.072	<b>0.460</b>	0.013	0.022	0.150	0.178	<b>0.460</b>	0.014	0.024	0.153	0.180
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.341	0.398	0.889	0.885	<b>0.936</b>	0.739	0.762	0.906	0.904	<b>0.936</b>	0.744	0.765	0.906	0.904
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.118	0.181	0.831	0.837	<b>0.936</b>	0.544	0.630	0.886	0.887	<b>0.936</b>	0.589	0.654	0.886	0.887
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.045	0.074	0.467	0.513	<b>0.936</b>	0.332	0.442	0.786	0.800	<b>0.936</b>	0.426	0.514	0.788	0.801
LHS: $IV, \sigma^2 = 0.0200, \kappa = 3.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.201	0.253	0.814	0.811	<b>0.874</b>	0.550	0.590	0.829	0.828	<b>0.874</b>	0.554	0.592	0.829	0.828
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.059	0.095	0.703	0.732	<b>0.874</b>	0.322	0.411	0.783	0.793	<b>0.874</b>	0.349	0.428	0.783	0.793
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.021	0.036	0.292	0.346	<b>0.874</b>	0.161	0.237	0.615	0.645	<b>0.874</b>	0.196	0.271	0.616	0.645
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.021	0.030	0.355	0.359	<b>0.460</b>	0.075	0.098	0.395	0.398	<b>0.460</b>	0.078	0.101	0.395	0.398
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.005	0.009	0.180	0.225	<b>0.460</b>	0.021	0.035	0.287	0.318	<b>0.460</b>	0.023	0.037	0.287	0.318
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.002	0.003	0.033	0.044	<b>0.460</b>	0.008	0.013	0.105	0.131	<b>0.460</b>	0.008	0.014	0.108	0.133

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.241	0.304	0.886	0.883	<b>0.936</b>	0.682	0.721	0.904	0.903	<b>0.936</b>	0.695	0.728	0.904	0.903
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.071	0.114	0.772	0.798	<b>0.936</b>	0.433	0.536	0.869	0.876	<b>0.936</b>	0.507	0.584	0.869	0.876
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.026	0.044	0.338	0.396	<b>0.936</b>	0.228	0.327	0.737	0.762	<b>0.936</b>	0.329	0.422	0.742	0.764
LHS: $IV, \sigma^2 = 0.0250, \kappa = 3.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.146	0.195	0.810	0.809	<b>0.874</b>	0.492	0.544	0.827	0.826	<b>0.874</b>	0.500	0.548	0.827	0.826
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.039	0.064	0.639	0.687	<b>0.874</b>	0.250	0.337	0.760	0.777	<b>0.874</b>	0.283	0.362	0.760	0.777
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.014	0.024	0.213	0.264	<b>0.874</b>	0.113	0.174	0.560	0.598	<b>0.874</b>	0.145	0.210	0.563	0.600
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.014	0.021	0.346	0.353	<b>0.460</b>	0.054	0.075	0.390	0.394	<b>0.460</b>	0.057	0.078	0.390	0.394
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.003	0.006	0.136	0.180	<b>0.460</b>	0.014	0.023	0.251	0.287	<b>0.460</b>	0.015	0.025	0.252	0.288
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.001	0.002	0.021	0.030	<b>0.460</b>	0.005	0.009	0.076	0.098	<b>0.460</b>	0.005	0.009	0.080	0.101
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.176	0.235	0.882	0.880	<b>0.936</b>	0.624	0.678	0.903	0.902	<b>0.936</b>	0.649	0.692	0.903	0.902
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.047	0.077	0.707	0.754	<b>0.936</b>	0.344	0.451	0.852	0.864	<b>0.936</b>	0.436	0.521	0.852	0.864
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.017	0.029	0.249	0.306	<b>0.936</b>	0.163	0.246	0.688	0.722	<b>0.936</b>	0.256	0.347	0.700	0.729
LHS: $IV, \sigma^2 = 0.0300, \kappa = 3.5$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.110	0.153	0.805	0.806	<b>0.874</b>	0.439	0.500	0.825	0.825	<b>0.874</b>	0.452	0.508	0.825	0.825
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.028	0.046	0.575	0.640	<b>0.874</b>	0.196	0.277	0.737	0.760	<b>0.874</b>	0.232	0.309	0.737	0.760
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.010	0.017	0.160	0.205	<b>0.874</b>	0.083	0.131	0.509	0.553	<b>0.874</b>	0.110	0.165	0.516	0.557
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.010	0.015	0.335	0.346	<b>0.460</b>	0.040	0.058	0.384	0.390	<b>0.460</b>	0.043	0.061	0.384	0.390
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.002	0.004	0.105	0.145	<b>0.460</b>	0.010	0.017	0.220	0.259	<b>0.460</b>	0.011	0.018	0.221	0.260
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.001	0.001	0.015	0.021	<b>0.460</b>	0.003	0.006	0.057	0.075	<b>0.460</b>	0.004	0.007	0.060	0.078
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.133	0.185	0.877	0.877	<b>0.936</b>	0.568	0.634	0.901	0.901	<b>0.936</b>	0.607	0.657	0.901	0.901
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.034	0.056	0.642	0.706	<b>0.936</b>	0.275	0.379	0.835	0.852	<b>0.936</b>	0.375	0.465	0.835	0.852
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.012	0.020	0.189	0.239	<b>0.936</b>	0.121	0.189	0.638	0.681	<b>0.936</b>	0.202	0.286	0.660	0.694

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
LHS: $IV, \sigma^2 = 0.0050, \kappa = 4.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.609	0.572	0.821	0.816	<b>0.874</b>	0.749	0.736	0.833	0.830	<b>0.874</b>	0.749	0.736	0.833	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.415	0.520	0.846	0.823	<b>0.874</b>	0.676	0.718	0.848	0.834	<b>0.874</b>	0.677	0.718	0.848	0.834
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.221	0.340	0.757	0.721	<b>0.874</b>	0.567	0.641	0.803	0.789	<b>0.874</b>	0.570	0.642	0.803	0.789
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.136	0.136	0.373	0.371	<b>0.460</b>	0.251	0.251	0.406	0.405	<b>0.460</b>	0.252	0.252	0.406	0.405
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.057	0.090	0.387	0.390	<b>0.460</b>	0.155	0.202	0.415	0.417	<b>0.460</b>	0.157	0.204	0.415	0.417
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.023	0.041	0.229	0.259	<b>0.460</b>	0.080	0.125	0.321	0.339	<b>0.460</b>	0.083	0.128	0.321	0.340
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.690	0.661	0.893	0.887	<b>0.936</b>	0.847	0.840	0.907	0.905	<b>0.936</b>	0.847	0.840	0.907	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.477	0.593	0.912	0.887	<b>0.936</b>	0.789	0.822	0.917	0.905	<b>0.936</b>	0.790	0.823	0.917	0.905
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.259	0.393	0.825	0.782	<b>0.936</b>	0.694	0.761	0.883	0.871	<b>0.936</b>	0.705	0.763	0.883	0.871
LHS: $IV, \sigma^2 = 0.0100, \kappa = 4.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.406	0.442	0.819	0.815	<b>0.874</b>	0.672	0.687	0.832	0.830	<b>0.874</b>	0.673	0.688	0.832	0.830
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.173	0.270	0.807	0.802	<b>0.874</b>	0.523	0.602	0.826	0.823	<b>0.874</b>	0.528	0.603	0.826	0.823
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.070	0.126	0.553	0.591	<b>0.874</b>	0.352	0.464	0.730	0.743	<b>0.874</b>	0.376	0.475	0.730	0.743
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.058	0.075	0.368	0.368	<b>0.460</b>	0.156	0.182	0.403	0.403	<b>0.460</b>	0.159	0.184	0.403	0.403
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.017	0.030	0.305	0.339	<b>0.460</b>	0.063	0.100	0.366	0.386	<b>0.460</b>	0.066	0.103	0.366	0.386
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.006	0.012	0.096	0.131	<b>0.460</b>	0.025	0.046	0.209	0.246	<b>0.460</b>	0.027	0.048	0.210	0.247
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.473	0.520	0.891	0.886	<b>0.936</b>	0.788	0.802	0.907	0.905	<b>0.936</b>	0.789	0.803	0.907	0.905
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.205	0.317	0.875	0.867	<b>0.936</b>	0.653	0.727	0.900	0.897	<b>0.936</b>	0.672	0.734	0.900	0.897
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.084	0.150	0.618	0.653	<b>0.936</b>	0.468	0.593	0.829	0.838	<b>0.936</b>	0.533	0.626	0.829	0.838
LHS: $IV, \sigma^2 = 0.0150, \kappa = 4.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.269	0.333	0.817	0.813	<b>0.874</b>	0.601	0.638	0.831	0.829	<b>0.874</b>	0.603	0.639	0.831	0.829
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.089	0.152	0.752	0.771	<b>0.874</b>	0.397	0.499	0.801	0.809	<b>0.874</b>	0.415	0.507	0.801	0.809
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.033	0.062	0.382	0.456	<b>0.874</b>	0.220	0.330	0.662	0.693	<b>0.874</b>	0.256	0.356	0.662	0.693
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.031	0.045	0.362	0.364	<b>0.460</b>	0.101	0.133	0.399	0.401	<b>0.460</b>	0.104	0.135	0.399	0.401
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.008	0.015	0.226	0.279	<b>0.460</b>	0.032	0.056	0.319	0.351	<b>0.460</b>	0.034	0.058	0.319	0.352
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.003	0.005	0.049	0.072	<b>0.460</b>	0.012	0.022	0.139	0.178	<b>0.460</b>	0.013	0.024	0.142	0.180
$M3^{5min}$	<b>0.945</b>	<b>0.934</b>	0.319	0.398	0.889	0.885	<b>0.936</b>	0.728	0.762	0.906	0.904	<b>0.936</b>	0.734	0.765	0.906	0.904
$M3^{1min}$	<b>0.945</b>	<b>0.934</b>	0.106	0.181	0.820	0.837	<b>0.936</b>	0.520	0.630	0.882	0.887	<b>0.936</b>	0.572	0.654	0.882	0.887
$M3^{20sec}$	<b>0.945</b>	<b>0.934</b>	0.039	0.074	0.437	0.513	<b>0.936</b>	0.307	0.442	0.776	0.800	<b>0.936</b>	0.404	0.514	0.778	0.801
LHS: $IV, \sigma^2 = 0.0200, \kappa = 4.0$																
$M1^{5min}$	<b>0.891</b>	<b>0.871</b>	0.185	0.253	0.813	0.811	<b>0.874</b>	0.535	0.590	0.829	0.828	<b>0.874</b>	0.540	0.592	0.829	0.828
$M1^{1min}$	<b>0.891</b>	<b>0.871</b>	0.053	0.095	0.686	0.732	<b>0.874</b>	0.300	0.411	0.776	0.793	<b>0.874</b>	0.330	0.428	0.776	0.793
$M1^{20sec}$	<b>0.891</b>	<b>0.871</b>	0.019	0.036	0.267	0.346	<b>0.874</b>	0.145	0.237	0.600	0.645	<b>0.874</b>	0.180	0.271	0.601	0.645
$M2^{5min}$	<b>0.586</b>	<b>0.445</b>	0.019	0.030	0.353	0.359	<b>0.460</b>	0.069	0.098	0.394	0.398	<b>0.460</b>	0.072	0.101	0.394	0.398
$M2^{1min}$	<b>0.586</b>	<b>0.445</b>	0.004	0.009	0.166	0.225	<b>0.460</b>	0.019	0.035	0.277	0.318	<b>0.460</b>	0.020	0.037	0.277	0.318
$M2^{20sec}$	<b>0.586</b>	<b>0.445</b>	0.002	0.003	0.029	0.044	<b>0.460</b>	0.007	0.013	0.096	0.130	<b>0.460</b>	0.007	0.014	0.099	0.133

	$R_{best}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 1 Lag	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 15 Lags	$R_{av}^2$	$R_{TS}^2$	$R_{iv}^2$	$R_{pl}^2$	$R_{AC1}^2$ 50 Lags	$R_{av}^2$	$R_{TS}^2$
$M3^5_{min}$	<b>0.945</b>	<b>0.934</b>	0.222	0.304	0.885	0.883	<b>0.936</b>	0.667	0.720	0.904	0.903	<b>0.936</b>	0.683	0.728	0.904	0.903
$M3^1_{min}$	<b>0.945</b>	<b>0.934</b>	0.063	0.114	0.755	0.798	<b>0.936</b>	0.407	0.536	0.864	0.876	<b>0.936</b>	0.487	0.584	0.864	0.876
$M3^{20}_{sec}$	<b>0.945</b>	<b>0.934</b>	0.023	0.044	0.310	0.395	<b>0.936</b>	0.207	0.327	0.724	0.762	<b>0.936</b>	0.307	0.422	0.730	0.764
LHS: $IV, \sigma^2 = 0.0250, \kappa = 4.0$																
$M1^5_{min}$	<b>0.891</b>	<b>0.871</b>	0.133	0.195	0.808	0.809	<b>0.874</b>	0.474	0.544	0.826	0.826	<b>0.874</b>	0.484	0.548	0.826	0.826
$M1^1_{min}$	<b>0.891</b>	<b>0.871</b>	0.035	0.064	0.617	0.687	<b>0.874</b>	0.230	0.337	0.752	0.777	<b>0.874</b>	0.265	0.362	0.752	0.777
$M1^{20}_{sec}$	<b>0.891</b>	<b>0.871</b>	0.012	0.024	0.193	0.264	<b>0.874</b>	0.101	0.174	0.542	0.598	<b>0.874</b>	0.131	0.210	0.546	0.600
$M2^5_{min}$	<b>0.586</b>	<b>0.445</b>	0.013	0.021	0.342	0.353	<b>0.460</b>	0.049	0.075	0.388	0.394	<b>0.460</b>	0.052	0.078	0.388	0.394
$M2^1_{min}$	<b>0.586</b>	<b>0.445</b>	0.003	0.006	0.124	0.180	<b>0.460</b>	0.013	0.023	0.240	0.287	<b>0.460</b>	0.014	0.025	0.241	0.288
$M2^{20}_{sec}$	<b>0.586</b>	<b>0.445</b>	0.001	0.002	0.019	0.030	<b>0.460</b>	0.004	0.009	0.069	0.098	<b>0.460</b>	0.005	0.009	0.072	0.101
$M3^5_{min}$	<b>0.945</b>	<b>0.934</b>	0.160	0.235	0.881	0.880	<b>0.936</b>	0.606	0.677	0.902	0.902	<b>0.936</b>	0.636	0.691	0.902	0.902
$M3^1_{min}$	<b>0.945</b>	<b>0.934</b>	0.042	0.077	0.685	0.754	<b>0.936</b>	0.319	0.451	0.846	0.864	<b>0.936</b>	0.414	0.521	0.846	0.864
$M3^{20}_{sec}$	<b>0.945</b>	<b>0.934</b>	0.015	0.029	0.226	0.306	<b>0.936</b>	0.146	0.246	0.670	0.722	<b>0.936</b>	0.236	0.347	0.686	0.728
LHS: $IV, \sigma^2 = 0.0300, \kappa = 4.0$																
$M1^5_{min}$	<b>0.891</b>	<b>0.871</b>	0.100	0.153	0.803	0.805	<b>0.874</b>	0.419	0.500	0.824	0.825	<b>0.874</b>	0.435	0.507	0.824	0.825
$M1^1_{min}$	<b>0.891</b>	<b>0.871</b>	0.025	0.046	0.550	0.640	<b>0.874</b>	0.179	0.277	0.728	0.760	<b>0.874</b>	0.215	0.309	0.728	0.760
$M1^{20}_{sec}$	<b>0.891</b>	<b>0.871</b>	0.009	0.017	0.144	0.205	<b>0.874</b>	0.074	0.131	0.489	0.553	<b>0.874</b>	0.099	0.165	0.497	0.557
$M2^5_{min}$	<b>0.586</b>	<b>0.445</b>	0.009	0.015	0.331	0.346	<b>0.460</b>	0.036	0.058	0.381	0.390	<b>0.460</b>	0.039	0.061	0.381	0.390
$M2^1_{min}$	<b>0.586</b>	<b>0.445</b>	0.002	0.004	0.095	0.145	<b>0.460</b>	0.009	0.017	0.208	0.259	<b>0.460</b>	0.010	0.018	0.210	0.260
$M2^{20}_{sec}$	<b>0.586</b>	<b>0.445</b>	0.001	0.001	0.013	0.021	<b>0.460</b>	0.003	0.006	0.051	0.075	<b>0.460</b>	0.003	0.007	0.054	0.078
$M3^5_{min}$	<b>0.945</b>	<b>0.934</b>	0.120	0.185	0.875	0.877	<b>0.936</b>	0.547	0.634	0.900	0.901	<b>0.936</b>	0.591	0.657	0.900	0.901
$M3^1_{min}$	<b>0.945</b>	<b>0.934</b>	0.030	0.056	0.615	0.706	<b>0.936</b>	0.252	0.379	0.828	0.851	<b>0.936</b>	0.353	0.465	0.828	0.852
$M3^{20}_{sec}$	<b>0.945</b>	<b>0.934</b>	0.010	0.020	0.169	0.239	<b>0.936</b>	0.108	0.189	0.617	0.681	<b>0.936</b>	0.184	0.286	0.644	0.694

**Table B-2:  $R^2$  Comparison of MIDAS Models for the Individual DJIA Stocks, Three-Year Subsample**

Each entry in the table corresponds to the  $R^2$  for the different models (Section 2) and the different return sampling frequencies. The regressions are run on a weekly (5 days) data sampling scheme. The names of the variables are consistent with the section describing realized volatility estimators. To preserve the table format,  $RV_{NWAC}$  is replaced by  $RV_{NW}$ . Every column in the panel corresponds to the explanatory power of the different left-hand side variables for the same right-hand side variable. The first panel contains results for the regressions constructed exclusively using one-minutes returns, the second contains results for the five-minutes returns.

	$RV$	$RV_{AC1}$	$RV_{NW}$	$RV_{TS}$	$RV_{TSd}$	$\overline{RV}$	$RV$	$RV_{AC1}$	$RV_{NW}$	$RV_{TS}$	$RV_{TSd}$	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: AA												
$RV$	<b>0.757</b>	0.640	<b>0.764</b>	<b>0.759</b>	0.716	<b>0.760</b>	0.622	0.579	0.630	<b>0.655</b>	0.613	<b>0.656</b>
$RV_{AC1}$	0.645	<b>0.668</b>	0.604	0.648	<b>0.672</b>	0.646	0.536	0.516	<b>0.566</b>	<b>0.572</b>	0.538	<b>0.573</b>
$RV_{TS}$	<b>0.765</b>	0.649	<b>0.771</b>	<b>0.767</b>	0.725	<b>0.768</b>	0.614	0.573	0.623	<b>0.653</b>	0.613	<b>0.654</b>
$RV_{TSd}$	<b>0.724</b>	0.684	0.700	<b>0.726</b>	<b>0.724</b>	<b>0.726</b>	0.560	0.529	0.551	<b>0.602</b>	0.571	<b>0.603</b>
$\overline{RV}$	<b>0.765</b>	0.646	<b>0.773</b>	<b>0.767</b>	0.723	<b>0.769</b>	0.615	0.573	0.625	<b>0.653</b>	0.613	<b>0.654</b>
Stock: AXP												
$RV$	<b>0.708</b>	0.679	<b>0.707</b>	<b>0.707</b>	0.696	<b>0.707</b>	0.605	0.563	0.610	0.609	0.588	0.609
$RV_{AC1}$	<b>0.658</b>	<b>0.657</b>	0.646	<b>0.657</b>	<b>0.656</b>	<b>0.656</b>	<b>0.563</b>	0.516	0.560	<b>0.566</b>	0.548	<b>0.567</b>
$RV_{TS}$	<b>0.707</b>	0.679	<b>0.705</b>	<b>0.706</b>	0.695	<b>0.706</b>	0.627	0.583	0.628	<b>0.630</b>	0.609	<b>0.631</b>
$RV_{TSd}$	<b>0.690</b>	0.672	0.678	<b>0.688</b>	<b>0.687</b>	<b>0.688</b>	<b>0.597</b>	0.555	0.585	<b>0.600</b>	0.584	<b>0.600</b>
$\overline{RV}$	<b>0.708</b>	0.679	<b>0.707</b>	<b>0.707</b>	0.696	<b>0.707</b>	0.628	0.583	0.629	<b>0.631</b>	0.609	<b>0.631</b>
Stock: BA												
$RV$	<b>0.685</b>	0.635	0.674	<b>0.685</b>	0.675	<b>0.685</b>	<b>0.623</b>	0.515	0.552	0.608	0.572	0.608
$RV_{AC1}$	0.593	<b>0.626</b>	0.559	0.599	<b>0.620</b>	0.597	<b>0.494</b>	0.426	0.394	0.480	0.473	0.480
$RV_{TS}$	<b>0.686</b>	0.641	0.674	<b>0.688</b>	<b>0.680</b>	<b>0.688</b>	<b>0.615</b>	0.504	0.534	0.599	0.566	0.599
$RV_{TSd}$	0.656	0.646	0.627	0.660	<b>0.671</b>	0.659	<b>0.568</b>	0.481	0.454	0.553	0.540	0.553
$\overline{RV}$	<b>0.688</b>	0.640	0.676	<b>0.689</b>	<b>0.680</b>	<b>0.689</b>	<b>0.615</b>	0.504	0.535	0.599	0.566	0.600
Stock: C												
$RV$	0.563	0.560	0.550	0.556	0.554	0.556	0.568	0.487	0.462	0.535	0.553	0.535
$RV_{AC1}$	0.521	0.532	0.501	0.512	0.515	0.512	<b>0.499</b>	0.424	0.379	0.462	0.487	0.462
$RV_{TS}$	0.571	0.566	0.557	0.563	0.561	0.564	<b>0.578</b>	0.495	0.471	0.545	0.564	0.545
$RV_{TSd}$	0.551	0.553	0.528	0.543	0.548	0.542	<b>0.547</b>	0.470	0.429	0.514	0.537	0.514
$\overline{RV}$	0.574	0.568	0.561	0.566	0.563	0.566	<b>0.579</b>	0.496	0.473	0.546	0.565	0.546
Stock: CAT												
$RV$	<b>0.815</b>	0.722	<b>0.815</b>	<b>0.816</b>	0.789	<b>0.817</b>	<b>0.681</b>	0.646	0.620	<b>0.682</b>	0.664	<b>0.683</b>
$RV_{AC1}$	0.663	<b>0.700</b>	0.620	0.667	<b>0.694</b>	0.665	<b>0.580</b>	0.569	0.505	<b>0.581</b>	<b>0.578</b>	<b>0.581</b>
$RV_{TS}$	<b>0.813</b>	0.722	<b>0.811</b>	<b>0.813</b>	0.787	<b>0.814</b>	<b>0.675</b>	0.642	0.618	<b>0.676</b>	0.656	<b>0.676</b>
$RV_{TSd}$	<b>0.762</b>	0.729	0.738	<b>0.765</b>	<b>0.766</b>	<b>0.764</b>	<b>0.611</b>	0.591	0.528	<b>0.612</b>	<b>0.607</b>	<b>0.612</b>
$\overline{RV}$	<b>0.814</b>	0.721	<b>0.813</b>	<b>0.815</b>	0.788	<b>0.816</b>	<b>0.676</b>	0.643	0.620	<b>0.676</b>	0.656	<b>0.677</b>

Three-Year Subsample (cont.)

	<i>RV</i>	<i>RV</i> <sub>AC1</sub>	<i>RV</i> <sub>NW</sub>	<i>RV</i> <sub>TS</sub>	<i>RV</i> <sub>TSd</sub>	$\overline{RV}$	<i>RV</i>	<i>RV</i> <sub>AC1</sub>	<i>RV</i> <sub>NW</sub>	<i>RV</i> <sub>TS</sub>	<i>RV</i> <sub>TSd</sub>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: DD												
<i>RV</i>	<b>0.852</b>	0.758	<b>0.848</b>	<b>0.856</b>	0.809	<b>0.856</b>	<b>0.765</b>	0.690	0.676	0.759	0.727	<b>0.760</b>
<i>RV</i> <sub>AC1</sub>	0.725	<b>0.781</b>	0.663	0.729	0.763	0.725	<b>0.693</b>	0.620	0.581	0.683	0.663	0.683
<i>RV</i> <sub>TS</sub>	<b>0.847</b>	0.754	<b>0.844</b>	<b>0.852</b>	0.805	<b>0.852</b>	<b>0.775</b>	0.691	0.681	<b>0.773</b>	0.742	<b>0.773</b>
<i>RV</i> <sub>TSd</sub>	0.796	0.794	0.750	<b>0.800</b>	<b>0.807</b>	<b>0.798</b>	<b>0.728</b>	0.653	0.601	<b>0.730</b>	0.713	<b>0.730</b>
$\overline{RV}$	<b>0.848</b>	0.750	<b>0.847</b>	<b>0.852</b>	0.803	<b>0.853</b>	<b>0.775</b>	0.692	0.683	<b>0.773</b>	0.742	<b>0.773</b>
Stock: DIS												
<i>RV</i>	<b>0.785</b>	0.732	<b>0.781</b>	<b>0.787</b>	0.758	<b>0.788</b>	0.672	0.637	<b>0.690</b>	<b>0.693</b>	0.642	<b>0.694</b>
<i>RV</i> <sub>AC1</sub>	0.698	<b>0.729</b>	0.669	0.699	0.704	0.699	0.567	0.577	<b>0.594</b>	<b>0.586</b>	0.544	<b>0.587</b>
<i>RV</i> <sub>TS</sub>	<b>0.784</b>	0.733	<b>0.778</b>	<b>0.784</b>	0.755	<b>0.785</b>	0.660	0.628	<b>0.679</b>	<b>0.683</b>	0.633	<b>0.684</b>
<i>RV</i> <sub>TSd</sub>	<b>0.752</b>	<b>0.747</b>	0.724	<b>0.754</b>	<b>0.757</b>	<b>0.754</b>	0.609	0.599	0.618	<b>0.633</b>	0.592	<b>0.634</b>
$\overline{RV}$	<b>0.785</b>	0.733	<b>0.780</b>	<b>0.785</b>	0.755	<b>0.786</b>	0.661	0.628	<b>0.681</b>	<b>0.684</b>	0.633	<b>0.685</b>
Stock: EK												
<i>RV</i>	<b>0.566</b>	0.539	<b>0.569</b>	<b>0.566</b>	0.548	<b>0.567</b>	<b>0.491</b>	0.462	0.467	<b>0.492</b>	0.474	<b>0.492</b>
<i>RV</i> <sub>AC1</sub>	0.503	<b>0.529</b>	0.487	0.507	0.512	0.507	<b>0.362</b>	0.343	0.342	<b>0.357</b>	0.347	<b>0.357</b>
<i>RV</i> <sub>TS</sub>	<b>0.550</b>	0.526	<b>0.551</b>	<b>0.551</b>	0.535	<b>0.551</b>	<b>0.482</b>	0.448	0.458	<b>0.481</b>	0.464	<b>0.481</b>
<i>RV</i> <sub>TSd</sub>	<b>0.528</b>	<b>0.532</b>	0.516	<b>0.530</b>	<b>0.528</b>	<b>0.530</b>	<b>0.447</b>	0.421	0.410	<b>0.441</b>	0.429	<b>0.441</b>
$\overline{RV}$	<b>0.550</b>	0.525	<b>0.552</b>	<b>0.551</b>	0.534	<b>0.551</b>	<b>0.482</b>	0.448	0.459	<b>0.481</b>	0.464	<b>0.481</b>
Stock: GE												
<i>RV</i>	<b>0.726</b>	0.657	<b>0.727</b>	<b>0.730</b>	0.695	<b>0.731</b>	0.601	0.548	0.598	0.619	0.598	0.619
<i>RV</i> <sub>AC1</sub>	0.623	0.624	0.594	<b>0.635</b>	<b>0.644</b>	0.633	0.504	0.469	0.490	0.522	0.509	0.522
<i>RV</i> <sub>TS</sub>	<b>0.716</b>	0.653	<b>0.714</b>	<b>0.721</b>	0.690	<b>0.722</b>	0.590	0.537	0.581	0.609	0.590	0.609
<i>RV</i> <sub>TSd</sub>	0.665	0.643	0.630	<b>0.675</b>	<b>0.683</b>	0.672	0.563	0.513	0.532	<b>0.586</b>	0.571	<b>0.586</b>
$\overline{RV}$	<b>0.719</b>	0.652	<b>0.721</b>	<b>0.724</b>	0.689	<b>0.726</b>	0.592	0.538	0.584	0.610	0.590	0.610
Stock: GM												
<i>RV</i>	<b>0.731</b>	0.691	<b>0.735</b>	<b>0.730</b>	0.719	<b>0.730</b>	0.600	0.615	0.621	0.610	0.596	0.610
<i>RV</i> <sub>AC1</sub>	<b>0.638</b>	0.619	<b>0.641</b>	<b>0.638</b>	0.629	<b>0.638</b>	0.541	0.560	0.548	0.553	0.543	0.553
<i>RV</i> <sub>TS</sub>	<b>0.729</b>	0.688	<b>0.733</b>	<b>0.727</b>	0.716	<b>0.728</b>	0.607	0.625	0.625	0.617	0.604	0.617
<i>RV</i> <sub>TSd</sub>	<b>0.703</b>	0.665	<b>0.705</b>	<b>0.702</b>	0.694	<b>0.702</b>	0.565	0.588	0.571	0.577	0.570	0.577
$\overline{RV}$	<b>0.730</b>	0.690	<b>0.734</b>	<b>0.728</b>	0.718	<b>0.729</b>	0.607	0.625	0.626	0.618	0.605	0.618

Table continued on next page ...

Three-Year Subsample (cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: HD												
<i>RV</i>	<b>0.774</b>	0.732	<b>0.765</b>	<b>0.768</b>	0.737	<b>0.769</b>	0.701	0.640	0.674	0.693	0.677	0.694
<i>RV<sub>AC1</sub></i>	<b>0.707</b>	<b>0.712</b>	0.668	<b>0.704</b>	<b>0.707</b>	<b>0.702</b>	0.614	0.563	0.584	0.600	0.589	0.601
<i>RV<sub>TS</sub></i>	<b>0.773</b>	0.735	0.760	<b>0.767</b>	0.739	<b>0.768</b>	0.692	0.629	0.661	0.685	0.671	0.686
<i>RV<sub>TSd</sub></i>	<b>0.737</b>	<b>0.730</b>	0.697	<b>0.733</b>	<b>0.737</b>	<b>0.732</b>	<b>0.663</b>	0.604	0.621	0.658	0.647	0.658
$\overline{RV}$	<b>0.775</b>	0.733	0.765	<b>0.768</b>	0.738	<b>0.769</b>	0.692	0.630	0.663	0.686	0.672	0.686
Stock: HON												
<i>RV</i>	<b>0.513</b>	0.474	<b>0.511</b>	<b>0.508</b>	0.492	<b>0.509</b>	0.427	0.443	0.429	0.449	0.441	0.449
<i>RV<sub>AC1</sub></i>	<b>0.468</b>	<b>0.466</b>	0.444	<b>0.462</b>	<b>0.466</b>	<b>0.461</b>	0.396	0.411	0.391	0.418	0.413	0.418
<i>RV<sub>TS</sub></i>	<b>0.518</b>	0.480	<b>0.515</b>	<b>0.513</b>	0.498	<b>0.513</b>	0.447	0.462	0.444	0.471	0.464	0.471
<i>RV<sub>TSd</sub></i>	<b>0.480</b>	0.461	0.465	<b>0.475</b>	<b>0.472</b>	<b>0.475</b>	0.422	0.443	0.408	0.447	0.444	0.447
$\overline{RV}$	<b>0.520</b>	0.481	<b>0.517</b>	<b>0.515</b>	0.499	<b>0.515</b>	0.447	0.463	0.445	0.472	0.464	0.472
Stock: HPQ												
<i>RV</i>	0.615	0.583	0.636	0.627	0.608	0.628	0.537	0.445	0.553	0.526	0.508	0.527
<i>RV<sub>AC1</sub></i>	0.556	0.537	0.565	0.567	0.560	0.567	0.453	0.403	0.450	0.444	0.434	0.444
<i>RV<sub>TS</sub></i>	0.628	0.596	0.647	0.639	0.620	0.639	0.538	0.443	0.562	0.529	0.508	0.529
<i>RV<sub>TSd</sub></i>	0.590	0.565	0.601	0.601	0.591	0.601	0.495	0.409	0.513	0.486	0.468	0.487
$\overline{RV}$	0.630	0.597	0.649	0.640	0.621	0.641	0.538	0.443	0.563	0.529	0.508	0.530
Stock: IBM												
<i>RV</i>	0.728	0.729	0.727	0.726	0.721	0.727	0.615	0.594	0.634	0.630	0.622	0.631
<i>RV<sub>AC1</sub></i>	0.666	<b>0.680</b>	0.661	0.663	0.660	0.663	0.546	0.527	0.561	0.558	0.551	0.558
<i>RV<sub>TS</sub></i>	0.731	0.731	0.729	0.729	0.724	0.729	0.627	0.609	0.642	0.643	0.635	0.643
<i>RV<sub>TSd</sub></i>	0.708	0.713	0.703	0.706	0.704	0.706	0.591	0.575	0.603	0.606	0.600	0.607
$\overline{RV}$	0.732	0.733	0.731	0.730	0.726	0.731	0.628	0.610	0.643	0.644	0.636	0.644
Stock: INTC												
<i>RV</i>	0.751	0.723	0.747	0.741	0.731	0.752	0.716	0.710	0.669	0.716	0.715	0.718
<i>RV<sub>AC1</sub></i>	0.664	<b>0.697</b>	0.643	0.654	0.658	0.668	0.689	0.687	0.633	0.688	0.688	<b>0.691</b>
<i>RV<sub>TS</sub></i>	0.737	0.712	0.721	0.737	0.730	0.736	0.711	0.704	0.662	0.710	0.710	0.712
<i>RV<sub>TSd</sub></i>	0.718	0.709	0.693	0.720	0.719	0.717	0.707	0.702	0.653	0.707	0.707	0.708
$\overline{RV}$	0.755	0.728	0.751	0.742	0.733	0.756	0.714	0.708	0.668	0.714	0.713	0.716

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Three-Year Subsample (cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: IP												
<i>RV</i>	<b>0.797</b>	0.728	<b>0.804</b>	<b>0.800</b>	0.779	<b>0.801</b>	0.726	<b>0.755</b>	0.724	<b>0.748</b>	0.745	<b>0.749</b>
<i>RV<sub>AC1</sub></i>	0.710	0.705	0.692	0.715	<b>0.726</b>	0.714	0.663	<b>0.697</b>	0.674	0.673	0.669	0.673
<i>RV<sub>TS</sub></i>	<b>0.805</b>	0.735	<b>0.810</b>	<b>0.808</b>	0.787	<b>0.808</b>	0.719	<b>0.740</b>	0.717	<b>0.735</b>	0.729	<b>0.735</b>
<i>RV<sub>TSd</sub></i>	<b>0.767</b>	0.732	0.759	<b>0.771</b>	<b>0.768</b>	<b>0.770</b>	0.677	<b>0.706</b>	0.660	0.691	0.690	0.691
$\overline{RV}$	<b>0.806</b>	0.734	<b>0.812</b>	<b>0.809</b>	0.787	<b>0.809</b>	0.719	<b>0.740</b>	0.719	<b>0.736</b>	0.729	<b>0.736</b>
Stock: JNJ												
<i>RV</i>	<b>0.802</b>	0.748	<b>0.795</b>	<b>0.793</b>	0.772	<b>0.794</b>	<b>0.721</b>	0.658	<b>0.712</b>	<b>0.719</b>	0.692	<b>0.719</b>
<i>RV<sub>AC1</sub></i>	<b>0.768</b>	0.753	0.749	<b>0.764</b>	<b>0.758</b>	<b>0.764</b>	<b>0.673</b>	0.624	0.651	<b>0.674</b>	0.651	<b>0.674</b>
<i>RV<sub>TS</sub></i>	<b>0.806</b>	0.754	<b>0.799</b>	<b>0.797</b>	0.778	<b>0.799</b>	<b>0.728</b>	0.661	<b>0.725</b>	<b>0.728</b>	0.698	<b>0.728</b>
<i>RV<sub>TSd</sub></i>	<b>0.797</b>	0.764	0.774	<b>0.790</b>	0.784	<b>0.790</b>	<b>0.703</b>	0.645	0.675	<b>0.705</b>	0.682	<b>0.705</b>
$\overline{RV}$	<b>0.807</b>	0.753	<b>0.800</b>	<b>0.797</b>	0.777	<b>0.799</b>	<b>0.728</b>	0.661	<b>0.726</b>	<b>0.728</b>	0.698	<b>0.728</b>
Stock: JPM												
<i>RV</i>	0.476	0.443	<b>0.524</b>	0.503	0.478	0.504	0.321	0.213	<b>0.469</b>	0.391	0.356	0.391
<i>RV<sub>AC1</sub></i>	0.461	0.443	<b>0.505</b>	0.491	0.471	0.491	0.215	0.141	<b>0.356</b>	0.283	0.256	0.284
<i>RV<sub>TS</sub></i>	0.474	0.442	<b>0.522</b>	0.501	0.476	0.503	0.314	0.212	<b>0.459</b>	0.382	0.348	0.383
<i>RV<sub>TSd</sub></i>	0.471	0.445	<b>0.517</b>	0.499	0.477	0.500	0.275	0.178	<b>0.416</b>	0.345	0.314	0.345
$\overline{RV}$	0.476	0.444	<b>0.524</b>	0.503	0.478	0.504	0.314	0.212	<b>0.459</b>	0.383	0.349	0.383
Stock: KO												
<i>RV</i>	<b>0.815</b>	0.728	<b>0.807</b>	<b>0.809</b>	0.766	<b>0.811</b>	0.728	0.721	0.695	<b>0.746</b>	0.736	<b>0.746</b>
<i>RV<sub>AC1</sub></i>	0.717	<b>0.730</b>	0.667	0.715	<b>0.728</b>	0.714	0.648	<b>0.660</b>	0.647	<b>0.662</b>	<b>0.654</b>	<b>0.663</b>
<i>RV<sub>TS</sub></i>	<b>0.815</b>	0.733	0.804	<b>0.809</b>	0.770	<b>0.811</b>	0.726	0.721	0.691	<b>0.743</b>	0.733	<b>0.743</b>
<i>RV<sub>TSd</sub></i>	<b>0.776</b>	0.758	0.730	<b>0.774</b>	<b>0.777</b>	<b>0.773</b>	0.685	0.692	0.634	<b>0.702</b>	<b>0.702</b>	<b>0.702</b>
$\overline{RV}$	<b>0.816</b>	0.730	<b>0.807</b>	<b>0.810</b>	0.768	<b>0.812</b>	0.726	0.721	0.692	<b>0.743</b>	0.733	<b>0.743</b>
Stock: MCD												
<i>RV</i>	0.688	0.481	<b>0.722</b>	0.707	0.628	0.709	0.484	0.319	0.451	0.464	0.413	0.465
<i>RV<sub>AC1</sub></i>	0.459	0.474	0.443	0.496	<b>0.527</b>	0.494	0.338	0.270	0.295	0.334	0.300	0.334
<i>RV<sub>TS</sub></i>	0.686	0.489	<b>0.716</b>	0.704	0.630	<b>0.706</b>	0.483	0.328	0.456	0.466	0.412	0.467
<i>RV<sub>TSd</sub></i>	0.589	0.515	0.590	0.620	0.610	0.620	0.410	0.275	0.336	0.397	0.363	0.397
$\overline{RV}$	0.689	0.487	<b>0.720</b>	0.707	0.630	0.709	0.484	0.329	0.460	0.467	0.412	0.468

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Three-Year Subsample (cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: MMM												
<i>RV</i>	<b>0.715</b>	<b>0.707</b>	<b>0.708</b>	<b>0.714</b>	<b>0.715</b>	<b>0.714</b>	<b>0.664</b>	0.644	0.641	<b>0.659</b>	0.650	<b>0.659</b>
<i>RV<sub>AC1</sub></i>	<b>0.690</b>	<b>0.699</b>	0.678	0.687	<b>0.692</b>	0.687	<b>0.584</b>	<b>0.578</b>	0.551	<b>0.576</b>	<b>0.576</b>	<b>0.576</b>
<i>RV<sub>TS</sub></i>	<b>0.719</b>	<b>0.711</b>	<b>0.711</b>	<b>0.718</b>	<b>0.719</b>	<b>0.717</b>	<b>0.664</b>	0.642	0.644	<b>0.663</b>	0.652	<b>0.663</b>
<i>RV<sub>TSd</sub></i>	<b>0.711</b>	<b>0.706</b>	0.701	<b>0.709</b>	<b>0.713</b>	<b>0.709</b>	<b>0.618</b>	0.603	0.589	<b>0.614</b>	0.606	<b>0.614</b>
$\overline{RV}$	<b>0.719</b>	<b>0.711</b>	<b>0.712</b>	<b>0.718</b>	<b>0.720</b>	<b>0.718</b>	<b>0.665</b>	0.642	0.644	<b>0.663</b>	0.652	<b>0.663</b>
Stock: MO												
<i>RV</i>	0.686	0.493	<b>0.717</b>	0.681	0.580	0.684	0.409	0.419	<b>0.464</b>	0.421	0.393	0.423
<i>RV<sub>AC1</sub></i>	0.425	0.343	0.423	0.418	0.374	0.420	0.267	0.267	0.328	0.270	0.251	0.271
<i>RV<sub>TS</sub></i>	0.672	0.489	<b>0.701</b>	0.667	0.572	0.671	0.405	0.409	<b>0.478</b>	0.414	0.384	0.416
<i>RV<sub>TSd</sub></i>	0.536	0.419	0.546	0.532	0.472	0.535	0.339	0.345	0.387	0.349	0.327	0.351
$\overline{RV}$	0.677	0.490	<b>0.707</b>	0.672	0.575	0.676	0.407	0.411	<b>0.482</b>	0.416	0.386	0.418
Stock: MRK												
<i>RV</i>	<b>0.626</b>	0.589	<b>0.622</b>	<b>0.620</b>	0.605	<b>0.621</b>	0.528	0.469	<b>0.571</b>	0.539	0.512	0.540
<i>RV<sub>AC1</sub></i>	<b>0.620</b>	0.598	0.602	<b>0.613</b>	<b>0.610</b>	<b>0.613</b>	0.472	0.420	<b>0.518</b>	0.479	0.455	0.479
<i>RV<sub>TS</sub></i>	<b>0.625</b>	0.587	<b>0.619</b>	<b>0.619</b>	0.605	<b>0.619</b>	0.554	0.484	<b>0.601</b>	0.565	0.535	0.566
<i>RV<sub>TSd</sub></i>	<b>0.614</b>	0.591	0.592	<b>0.607</b>	<b>0.608</b>	<b>0.607</b>	0.541	0.458	<b>0.580</b>	0.553	0.527	0.553
$\overline{RV}$	<b>0.625</b>	0.587	<b>0.621</b>	<b>0.619</b>	0.604	<b>0.620</b>	0.554	0.485	<b>0.602</b>	0.565	0.535	0.566
Stock: MSFT												
<i>RV</i>	<b>0.735</b>	0.701	<b>0.737</b>	0.719	0.705	0.727	<b>0.666</b>	0.624	<b>0.664</b>	<b>0.659</b>	<b>0.658</b>	<b>0.660</b>
<i>RV<sub>AC1</sub></i>	<b>0.677</b>	<b>0.672</b>	<b>0.680</b>	0.655	0.647	<b>0.672</b>	<b>0.650</b>	0.626	0.622	0.633	0.633	0.636
<i>RV<sub>TS</sub></i>	<b>0.725</b>	0.688	<b>0.720</b>	0.714	0.702	0.715	<b>0.685</b>	0.645	<b>0.678</b>	<b>0.678</b>	<b>0.677</b>	<b>0.679</b>
<i>RV<sub>TSd</sub></i>	<b>0.713</b>	0.683	<b>0.704</b>	<b>0.704</b>	0.695	<b>0.704</b>	<b>0.682</b>	0.643	<b>0.672</b>	<b>0.675</b>	<b>0.674</b>	<b>0.677</b>
$\overline{RV}$	<b>0.733</b>	0.705	<b>0.738</b>	0.716	0.703	0.727	<b>0.687</b>	0.648	<b>0.680</b>	<b>0.680</b>	<b>0.679</b>	<b>0.682</b>
Stock: PG												
<i>RV</i>	0.802	0.739	<b>0.818</b>	0.807	0.771	<b>0.808</b>	<b>0.683</b>	0.636	<b>0.688</b>	0.667	0.641	0.667
<i>RV<sub>AC1</sub></i>	<b>0.702</b>	0.691	0.694	<b>0.709</b>	<b>0.701</b>	<b>0.709</b>	<b>0.607</b>	0.569	<b>0.603</b>	0.585	0.564	0.586
<i>RV<sub>TS</sub></i>	0.800	0.737	<b>0.815</b>	0.805	0.770	<b>0.806</b>	<b>0.692</b>	0.645	<b>0.695</b>	0.675	0.648	0.675
<i>RV<sub>TSd</sub></i>	<b>0.755</b>	0.721	<b>0.753</b>	<b>0.762</b>	0.747	<b>0.762</b>	<b>0.638</b>	0.591	0.623	0.616	0.592	0.617
$\overline{RV}$	0.802	0.738	<b>0.818</b>	0.807	0.770	<b>0.808</b>	<b>0.693</b>	0.646	<b>0.697</b>	0.676	0.648	0.676

Table continued on next page ...

Three-Year Subsample (end)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: SBC												
<i>RV</i>	<b>0.817</b>	0.798	<b>0.808</b>	<b>0.817</b>	0.807	<b>0.817</b>	0.719	0.672	0.684	<b>0.732</b>	0.720	<b>0.732</b>
<i>RV<sub>AC1</sub></i>	0.752	<b>0.778</b>	0.719	0.752	0.764	0.751	<b>0.667</b>	0.632	0.603	<b>0.674</b>	<b>0.674</b>	<b>0.674</b>
<i>RV<sub>TS</sub></i>	<b>0.818</b>	0.800	0.807	<b>0.818</b>	<b>0.809</b>	<b>0.818</b>	0.738	0.693	0.698	<b>0.750</b>	0.739	<b>0.750</b>
<i>RV<sub>TSd</sub></i>	<b>0.796</b>	<b>0.802</b>	0.768	<b>0.797</b>	<b>0.806</b>	<b>0.796</b>	0.691	0.658	0.628	<b>0.703</b>	<b>0.702</b>	<b>0.703</b>
$\overline{RV}$	<b>0.819</b>	0.800	0.809	<b>0.818</b>	0.808	<b>0.818</b>	0.738	0.693	0.699	<b>0.751</b>	0.739	<b>0.751</b>
Stock: T												
<i>RV</i>	0.727	0.557	<b>0.743</b>	0.724	0.601	0.731	0.543	0.447	0.509	0.539	0.499	0.541
<i>RV<sub>AC1</sub></i>	0.518	0.544	0.450	0.530	<b>0.566</b>	0.522	0.458	0.399	0.350	<b>0.461</b>	0.447	0.460
<i>RV<sub>TS</sub></i>	<b>0.719</b>	0.570	<b>0.723</b>	<b>0.719</b>	0.613	<b>0.723</b>	0.543	0.446	0.494	0.542	0.505	0.543
<i>RV<sub>TSd</sub></i>	0.577	0.578	0.511	0.589	<b>0.608</b>	0.582	0.495	0.411	0.412	0.499	0.476	0.499
$\overline{RV}$	0.725	0.561	<b>0.737</b>	0.723	0.605	<b>0.729</b>	0.545	0.447	0.502	0.543	0.505	0.544
Stock: UTX												
<i>RV</i>	0.521	0.528	0.518	0.520	0.520	0.520	0.510	0.512	0.480	0.518	0.530	0.518
<i>RV<sub>AC1</sub></i>	0.498	<b>0.517</b>	0.491	0.497	0.501	0.497	0.434	0.444	0.398	0.442	0.459	0.442
<i>RV<sub>TS</sub></i>	0.517	0.525	0.514	0.517	0.517	0.517	0.506	0.503	0.478	0.513	0.522	0.513
<i>RV<sub>TSd</sub></i>	0.506	0.517	0.501	0.506	0.508	0.506	0.477	0.478	0.442	0.482	0.495	0.482
$\overline{RV}$	0.518	0.525	0.515	0.517	0.517	0.517	0.506	0.503	0.478	0.513	0.522	0.513
Stock: WMT												
<i>RV</i>	<b>0.784</b>	0.759	<b>0.785</b>	<b>0.784</b>	0.754	<b>0.785</b>	<b>0.686</b>	0.678	0.675	<b>0.686</b>	0.680	<b>0.686</b>
<i>RV<sub>AC1</sub></i>	0.707	<b>0.717</b>	0.688	<b>0.711</b>	0.704	<b>0.709</b>	0.602	<b>0.613</b>	<b>0.608</b>	0.598	0.595	0.598
<i>RV<sub>TS</sub></i>	<b>0.783</b>	0.761	<b>0.781</b>	<b>0.784</b>	0.756	<b>0.785</b>	<b>0.696</b>	<b>0.689</b>	0.682	<b>0.696</b>	<b>0.691</b>	<b>0.697</b>
<i>RV<sub>TSd</sub></i>	<b>0.738</b>	<b>0.746</b>	0.710	<b>0.742</b>	<b>0.743</b>	<b>0.740</b>	<b>0.652</b>	<b>0.651</b>	0.631	<b>0.651</b>	<b>0.650</b>	<b>0.652</b>
$\overline{RV}$	<b>0.785</b>	0.760	<b>0.786</b>	<b>0.786</b>	0.756	<b>0.787</b>	<b>0.697</b>	<b>0.690</b>	0.684	<b>0.697</b>	<b>0.692</b>	<b>0.698</b>
Stock: XOM												
<i>RV</i>	<b>0.771</b>	0.698	<b>0.770</b>	<b>0.768</b>	0.756	<b>0.768</b>	<b>0.659</b>	0.564	0.630	0.638	0.602	0.638
<i>RV<sub>AC1</sub></i>	<b>0.689</b>	0.666	<b>0.680</b>	<b>0.685</b>	<b>0.681</b>	<b>0.686</b>	<b>0.580</b>	0.522	0.512	0.562	0.547	0.563
<i>RV<sub>TS</sub></i>	<b>0.775</b>	0.704	<b>0.774</b>	<b>0.773</b>	0.761	<b>0.773</b>	<b>0.664</b>	0.566	0.632	0.643	0.607	0.643
<i>RV<sub>TSd</sub></i>	<b>0.764</b>	0.703	<b>0.756</b>	<b>0.761</b>	<b>0.756</b>	<b>0.761</b>	<b>0.608</b>	0.539	0.554	0.590	0.568	0.590
$\overline{RV}$	<b>0.776</b>	0.704	<b>0.775</b>	<b>0.773</b>	0.761	<b>0.773</b>	<b>0.664</b>	0.567	0.633	0.643	0.607	0.644

**Table B-3:  $R^2$  Comparison of MIDAS Models for the Individual DJIA Stocks, Full Sample**

Each entry in the table corresponds to the  $R^2$  for the different models (Section 2) and the different return sampling frequencies. The regressions are run on a weekly (5 days) data sampling scheme. The names of the variables are consistent with the section describing realized volatility estimators. To preserve the table format,  $RV_{NWAC}$  is replaced by  $RV_{NW}$ . Every column in the panel corresponds to the explanatory power of the different left-hand side variables for the same right-hand side variable. The first panel contains results for the regressions constructed exclusively using one-minutes returns, the second contains results for the five-minutes returns.

	$RV$	$RV_{AC1}$	$RV_{NW}$	$RV_{TS}$	$RV_{TSd}$	$\overline{RV}$	$RV$	$RV_{AC1}$	$RV_{NW}$	$RV_{TS}$	$RV_{TSd}$	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: AA												
$RV$	<b>0.721</b>	0.576	<b>0.720</b>	<b>0.729</b>	0.682	<b>0.730</b>	0.577	0.536	0.549	<b>0.615</b>	0.567	<b>0.616</b>
$RV_{AC1}$	0.548	<b>0.623</b>	0.484	0.560	<b>0.619</b>	0.557	0.507	0.480	0.465	<b>0.541</b>	0.507	<b>0.541</b>
$RV_{TS}$	<b>0.722</b>	0.580	0.721	<b>0.731</b>	0.684	<b>0.731</b>	0.572	0.520	0.533	<b>0.612</b>	0.561	<b>0.612</b>
$RV_{TSd}$	0.649	0.621	0.608	0.660	<b>0.674</b>	0.658	0.524	0.496	0.456	<b>0.571</b>	0.533	<b>0.571</b>
$\overline{RV}$	<b>0.724</b>	0.577	<b>0.725</b>	<b>0.732</b>	0.683	<b>0.733</b>	0.573	0.521	0.536	<b>0.612</b>	0.562	<b>0.613</b>
Stock: AXP												
$RV$	<b>0.524</b>	0.504	0.516	<b>0.522</b>	0.515	<b>0.523</b>	0.465	0.441	0.456	<b>0.488</b>	0.473	<b>0.488</b>
$RV_{AC1}$	0.486	<b>0.506</b>	0.459	0.484	0.494	0.483	0.401	0.378	0.387	<b>0.422</b>	0.410	<b>0.422</b>
$RV_{TS}$	<b>0.528</b>	0.509	<b>0.519</b>	<b>0.526</b>	<b>0.519</b>	<b>0.526</b>	0.476	0.452	0.463	<b>0.501</b>	0.487	<b>0.501</b>
$RV_{TSd}$	<b>0.510</b>	<b>0.512</b>	0.487	<b>0.508</b>	<b>0.515</b>	<b>0.508</b>	0.462	0.447	0.436	<b>0.487</b>	<b>0.478</b>	<b>0.487</b>
$\overline{RV}$	<b>0.529</b>	0.509	<b>0.521</b>	<b>0.527</b>	<b>0.519</b>	<b>0.527</b>	0.476	0.452	0.464	<b>0.501</b>	0.487	<b>0.501</b>
Stock: BA												
$RV$	<b>0.590</b>	0.526	<b>0.580</b>	<b>0.588</b>	0.574	<b>0.589</b>	<b>0.500</b>	0.397	0.468	<b>0.495</b>	0.440	<b>0.495</b>
$RV_{AC1}$	0.508	<b>0.533</b>	0.467	0.511	<b>0.534</b>	0.509	<b>0.365</b>	0.294	0.303	0.349	0.323	0.350
$RV_{TS}$	<b>0.587</b>	0.530	0.574	<b>0.586</b>	0.575	<b>0.586</b>	<b>0.493</b>	0.381	0.447	<b>0.483</b>	0.432	<b>0.483</b>
$RV_{TSd}$	0.556	0.541	0.523	0.558	<b>0.569</b>	0.556	<b>0.465</b>	0.369	0.386	0.453	0.420	0.453
$\overline{RV}$	<b>0.589</b>	0.529	0.577	<b>0.587</b>	0.575	<b>0.587</b>	<b>0.493</b>	0.381	0.448	<b>0.483</b>	0.432	<b>0.484</b>
Stock: C												
$RV$	0.396	0.405	0.370	0.386	0.392	0.385	0.438	0.362	0.293	0.398	0.428	0.398
$RV_{AC1}$	0.363	0.385	0.331	0.352	0.363	0.351	0.390	0.318	0.243	0.348	0.381	0.348
$RV_{TS}$	0.404	0.410	0.377	0.393	0.399	0.392	0.451	0.372	0.305	0.412	0.442	0.412
$RV_{TSd}$	0.393	0.406	0.358	0.382	0.395	0.381	0.426	0.352	0.273	0.387	0.421	0.387
$\overline{RV}$	0.406	0.411	0.380	0.395	0.400	0.394	0.451	0.372	0.306	0.412	0.442	0.412
Stock: CAT												
$RV$	<b>0.749</b>	0.593	<b>0.748</b>	<b>0.747</b>	0.706	<b>0.748</b>	<b>0.568</b>	0.530	0.488	<b>0.568</b>	0.551	<b>0.569</b>
$RV_{AC1}$	0.537	<b>0.577</b>	0.485	0.538	<b>0.578</b>	0.536	<b>0.456</b>	<b>0.449</b>	0.359	<b>0.455</b>	<b>0.457</b>	<b>0.455</b>
$RV_{TS}$	<b>0.745</b>	0.592	<b>0.742</b>	<b>0.743</b>	0.703	<b>0.744</b>	<b>0.558</b>	0.522	0.485	<b>0.558</b>	0.538	<b>0.558</b>
$RV_{TSd}$	<b>0.675</b>	0.611	0.642	<b>0.675</b>	<b>0.675</b>	<b>0.674</b>	<b>0.490</b>	0.472	0.396	<b>0.490</b>	<b>0.489</b>	<b>0.490</b>
$\overline{RV}$	<b>0.747</b>	0.590	<b>0.746</b>	<b>0.745</b>	0.704	<b>0.746</b>	<b>0.559</b>	0.523	0.487	<b>0.558</b>	0.539	<b>0.559</b>

Full Sample (Cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: DD												
<i>RV</i>	<b>0.763</b>	0.613	<b>0.762</b>	<b>0.768</b>	0.693	<b>0.769</b>	<b>0.623</b>	0.521	0.514	<b>0.620</b>	0.583	<b>0.620</b>
<i>RV<sub>AC1</sub></i>	0.578	<b>0.656</b>	0.502	0.581	0.631	0.576	0.541	0.445	0.408	0.531	0.512	0.531
<i>RV<sub>TS</sub></i>	<b>0.755</b>	0.606	<b>0.757</b>	<b>0.761</b>	0.685	<b>0.762</b>	<b>0.647</b>	0.536	0.529	<b>0.649</b>	0.616	<b>0.649</b>
<i>RV<sub>TSd</sub></i>	0.680	0.674	0.622	<b>0.684</b>	<b>0.693</b>	0.681	<b>0.590</b>	0.494	0.430	<b>0.598</b>	0.582	<b>0.597</b>
$\overline{RV}$	<b>0.756</b>	0.600	<b>0.762</b>	<b>0.762</b>	0.682	<b>0.764</b>	<b>0.647</b>	0.536	0.532	<b>0.649</b>	0.615	<b>0.650</b>
Stock: DIS												
<i>RV</i>	<b>0.700</b>	0.647	0.686	<b>0.702</b>	0.672	<b>0.703</b>	0.571	0.505	0.578	<b>0.593</b>	0.529	<b>0.594</b>
<i>RV<sub>AC1</sub></i>	0.615	<b>0.666</b>	0.564	0.615	0.634	0.614	0.470	0.455	<b>0.499</b>	0.484	0.428	0.485
<i>RV<sub>TS</sub></i>	<b>0.702</b>	0.650	0.683	<b>0.700</b>	0.671	<b>0.701</b>	0.565	0.500	0.576	<b>0.589</b>	0.525	<b>0.590</b>
<i>RV<sub>TSd</sub></i>	0.675	<b>0.685</b>	0.628	0.677	<b>0.688</b>	0.676	0.520	0.478	0.521	<b>0.541</b>	0.488	<b>0.542</b>
$\overline{RV}$	<b>0.703</b>	0.649	0.685	<b>0.701</b>	0.671	<b>0.702</b>	0.566	0.500	0.578	<b>0.590</b>	0.525	<b>0.591</b>
Stock: EK												
<i>RV</i>	<b>0.565</b>	0.547	0.553	<b>0.562</b>	0.552	<b>0.563</b>	<b>0.506</b>	0.495	0.444	0.502	0.484	0.502
<i>RV<sub>AC1</sub></i>	0.503	<b>0.544</b>	0.467	0.503	0.520	0.502	0.371	0.358	0.321	0.359	0.347	0.359
<i>RV<sub>TS</sub></i>	<b>0.542</b>	0.528	0.528	<b>0.539</b>	0.532	<b>0.540</b>	<b>0.494</b>	0.474	0.433	0.487	0.470	0.487
<i>RV<sub>TSd</sub></i>	0.527	<b>0.545</b>	0.498	0.526	0.535	0.526	<b>0.457</b>	0.441	0.381	0.441	0.430	0.441
$\overline{RV}$	<b>0.542</b>	0.527	0.529	<b>0.539</b>	0.531	<b>0.539</b>	<b>0.494</b>	0.474	0.434	0.487	0.470	0.487
Stock: GE												
<i>RV</i>	0.538	0.463	0.534	<b>0.550</b>	0.523	<b>0.551</b>	0.422	0.363	0.397	<b>0.454</b>	0.439	<b>0.454</b>
<i>RV<sub>AC1</sub></i>	0.426	0.447	0.385	0.448	<b>0.480</b>	0.444	0.312	0.283	0.276	<b>0.343</b>	<b>0.338</b>	<b>0.343</b>
<i>RV<sub>TS</sub></i>	0.524	0.456	0.516	<b>0.537</b>	0.517	<b>0.538</b>	0.406	0.346	0.376	<b>0.440</b>	0.427	<b>0.440</b>
<i>RV<sub>TSd</sub></i>	0.473	0.460	0.427	0.493	<b>0.521</b>	0.488	0.386	0.333	0.331	<b>0.424</b>	<b>0.416</b>	<b>0.424</b>
$\overline{RV}$	0.529	0.454	0.526	<b>0.541</b>	0.514	<b>0.542</b>	0.407	0.346	0.379	<b>0.441</b>	0.427	<b>0.441</b>
Stock: GM												
<i>RV</i>	0.660	0.606	0.664	0.657	0.644	0.657	0.504	0.522	0.544	0.512	0.494	0.513
<i>RV<sub>AC1</sub></i>	0.560	0.524	0.564	0.560	0.550	0.560	0.443	0.466	0.468	0.454	0.439	0.454
<i>RV<sub>TS</sub></i>	0.656	0.602	0.661	0.653	0.641	0.654	0.509	0.530	0.547	0.518	0.500	0.518
<i>RV<sub>TSd</sub></i>	0.628	0.578	0.630	0.626	0.616	0.626	0.463	0.489	0.491	0.473	0.461	0.473
$\overline{RV}$	0.657	0.603	0.662	0.655	0.642	0.655	0.509	0.531	0.548	0.518	0.500	0.519

Table continued on next page ...

Full Sample (Cont.)

	<i>RV</i>	<i>RV</i> <sub>AC1</sub>	<i>RV</i> <sub>NW</sub>	<i>RV</i> <sub>TS</sub>	<i>RV</i> <sub>TSd</sub>	$\overline{RV}$	<i>RV</i>	<i>RV</i> <sub>AC1</sub>	<i>RV</i> <sub>NW</sub>	<i>RV</i> <sub>TS</sub>	<i>RV</i> <sub>TSd</sub>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: HD												
<i>RV</i>	<b>0.664</b>	0.618	0.643	<b>0.655</b>	0.623	<b>0.656</b>	0.588	0.514	0.533	0.578	0.564	0.578
<i>RV</i> <sub>AC1</sub>	0.587	<b>0.600</b>	0.527	0.583	<b>0.597</b>	0.580	0.483	0.427	0.428	0.467	0.459	0.467
<i>RV</i> <sub>TS</sub>	<b>0.663</b>	0.622	0.638	<b>0.654</b>	0.627	<b>0.655</b>	0.578	0.503	0.521	0.570	0.558	0.570
<i>RV</i> <sub>TSd</sub>	<b>0.624</b>	<b>0.625</b>	0.562	0.620	<b>0.634</b>	0.617	0.548	0.479	0.479	0.542	0.533	0.542
$\overline{RV}$	<b>0.665</b>	0.620	0.644	<b>0.656</b>	0.625	<b>0.657</b>	0.578	0.504	0.523	0.570	0.558	0.570
Stock: HON												
<i>RV</i>	<b>0.338</b>	0.311	0.321	0.327	0.321	0.327	0.278	<b>0.318</b>	0.224	0.307	0.309	0.307
<i>RV</i> <sub>AC1</sub>	<b>0.319</b>	<b>0.325</b>	0.238	0.306	<b>0.320</b>	0.305	0.253	<b>0.287</b>	0.199	<b>0.281</b>	<b>0.285</b>	<b>0.281</b>
<i>RV</i> <sub>TS</sub>	<b>0.348</b>	0.319	0.329	0.335	0.330	0.336	0.304	<b>0.344</b>	0.245	<b>0.335</b>	<b>0.338</b>	<b>0.335</b>
<i>RV</i> <sub>TSd</sub>	<b>0.316</b>	<b>0.307</b>	0.285	0.304	<b>0.310</b>	0.303	0.290	<b>0.332</b>	0.227	0.320	<b>0.326</b>	0.320
$\overline{RV}$	<b>0.349</b>	0.319	0.331	0.337	0.330	0.337	0.304	<b>0.344</b>	0.246	<b>0.335</b>	<b>0.339</b>	<b>0.335</b>
Stock: HPQ												
<i>RV</i>	0.535	0.501	0.561	0.553	0.532	0.555	0.443	0.322	0.476	0.453	0.424	0.453
<i>RV</i> <sub>AC1</sub>	0.479	0.473	0.484	0.495	0.495	0.496	0.352	0.279	0.371	0.361	0.342	0.361
<i>RV</i> <sub>TS</sub>	0.538	0.506	0.561	0.554	0.535	0.556	0.455	0.330	0.497	0.466	0.435	0.467
<i>RV</i> <sub>TSd</sub>	0.500	0.484	0.509	0.516	0.511	0.517	0.422	0.309	0.458	0.435	0.406	0.436
$\overline{RV}$	0.540	0.507	0.565	0.557	0.536	0.559	0.456	0.331	0.499	0.467	0.435	0.468
Stock: IBM												
<i>RV</i>	0.578	0.589	0.572	0.576	0.574	0.576	0.457	0.437	0.471	0.478	0.471	0.478
<i>RV</i> <sub>AC1</sub>	0.510	<b>0.536</b>	0.499	0.505	0.506	0.506	0.388	0.370	0.396	0.403	0.398	0.403
<i>RV</i> <sub>TS</sub>	0.582	0.594	0.575	0.580	0.580	0.580	0.472	0.454	0.480	0.493	0.487	0.493
<i>RV</i> <sub>TSd</sub>	0.559	0.576	0.548	0.557	0.559	0.557	0.435	0.420	0.440	0.456	0.451	0.456
$\overline{RV}$	0.584	0.595	0.577	0.582	0.581	0.582	0.472	0.455	0.481	0.494	0.488	0.494
Stock: INTC												
<i>RV</i>	0.605	0.556	0.613	0.585	0.565	0.607	0.544	0.536	0.499	0.543	0.542	0.546
<i>RV</i> <sub>AC1</sub>	0.474	<b>0.513</b>	0.463	0.455	0.453	0.479	0.511	0.511	0.456	0.509	0.509	<b>0.513</b>
<i>RV</i> <sub>TS</sub>	0.579	0.532	0.572	0.574	0.557	0.578	0.536	0.528	0.490	0.535	0.533	0.538
<i>RV</i> <sub>TSd</sub>	0.547	0.523	0.530	0.545	0.535	0.546	0.531	0.524	0.478	0.529	0.528	0.532
$\overline{RV}$	0.609	0.562	<b>0.619</b>	0.587	0.567	0.611	0.542	0.535	0.500	0.540	0.539	0.544

Table continued on next page ...

Full Sample (Cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: IP												
<i>RV</i>	0.686	0.587	<b>0.698</b>	<b>0.691</b>	0.660	<b>0.692</b>	0.609	<b>0.664</b>	0.599	0.639	0.643	0.639
<i>RV<sub>AC1</sub></i>	0.572	0.568	0.549	0.577	<b>0.592</b>	0.576	0.535	<b>0.588</b>	0.543	0.547	0.547	0.548
<i>RV<sub>TS</sub></i>	0.696	0.597	<b>0.707</b>	<b>0.701</b>	0.671	<b>0.702</b>	0.592	<b>0.636</b>	0.583	0.614	0.614	0.615
<i>RV<sub>TSd</sub></i>	<b>0.642</b>	0.594	0.634	<b>0.647</b>	<b>0.643</b>	<b>0.647</b>	0.547	<b>0.597</b>	0.518	0.564	0.570	0.565
$\overline{RV}$	0.698	0.596	<b>0.710</b>	<b>0.703</b>	0.671	<b>0.704</b>	0.593	<b>0.637</b>	0.585	0.615	0.614	0.615
Stock: JNJ												
<i>RV</i>	<b>0.772</b>	0.730	0.757	0.762	0.748	<b>0.763</b>	<b>0.730</b>	0.660	0.702	<b>0.724</b>	0.692	<b>0.724</b>
<i>RV<sub>AC1</sub></i>	<b>0.772</b>	0.756	0.739	<b>0.763</b>	<b>0.764</b>	<b>0.763</b>	<b>0.705</b>	0.650	0.664	<b>0.698</b>	0.677	<b>0.699</b>
<i>RV<sub>TS</sub></i>	<b>0.780</b>	0.739	0.764	0.770	0.757	<b>0.770</b>	<b>0.740</b>	0.661	0.719	<b>0.736</b>	0.700	<b>0.737</b>
<i>RV<sub>TSd</sub></i>	<b>0.779</b>	0.757	0.749	<b>0.771</b>	<b>0.771</b>	<b>0.771</b>	<b>0.723</b>	0.652	0.680	<b>0.720</b>	0.693	<b>0.720</b>
$\overline{RV}$	<b>0.780</b>	0.737	0.764	0.770	0.756	<b>0.771</b>	<b>0.740</b>	0.661	0.720	<b>0.736</b>	0.700	<b>0.737</b>
Stock: JPM												
<i>RV</i>	0.336	0.297	<b>0.393</b>	0.367	0.337	0.368	0.189	0.174	<b>0.349</b>	0.266	0.236	0.266
<i>RV<sub>AC1</sub></i>	0.320	0.298	<b>0.373</b>	0.354	0.332	0.355	0.121	0.122	<b>0.269</b>	0.192	0.167	0.193
<i>RV<sub>TS</sub></i>	0.334	0.296	<b>0.390</b>	0.365	0.335	0.366	0.184	0.170	<b>0.342</b>	0.260	0.230	0.260
<i>RV<sub>TSd</sub></i>	0.329	0.298	<b>0.382</b>	0.360	0.334	0.361	0.162	0.155	<b>0.313</b>	0.237	0.210	0.237
$\overline{RV}$	0.335	0.297	<b>0.392</b>	0.366	0.337	0.368	0.185	0.171	<b>0.342</b>	0.260	0.231	0.261
Stock: KO												
<i>RV</i>	<b>0.739</b>	0.623	0.727	0.728	0.669	0.731	0.651	0.644	0.597	<b>0.671</b>	<b>0.667</b>	<b>0.672</b>
<i>RV<sub>AC1</sub></i>	0.622	<b>0.649</b>	0.554	0.619	<b>0.641</b>	0.617	0.558	<b>0.575</b>	0.553	<b>0.574</b>	<b>0.568</b>	<b>0.575</b>
<i>RV<sub>TS</sub></i>	0.740	0.632	0.722	0.729	0.676	0.732	0.647	0.642	0.590	<b>0.665</b>	<b>0.661</b>	<b>0.666</b>
<i>RV<sub>TSd</sub></i>	<b>0.690</b>	0.678	0.624	<b>0.686</b>	<b>0.695</b>	0.684	0.605	0.615	0.534	<b>0.624</b>	<b>0.630</b>	<b>0.624</b>
$\overline{RV}$	0.741	0.627	0.727	0.730	0.673	0.733	0.647	0.642	0.592	<b>0.665</b>	<b>0.660</b>	<b>0.666</b>
Stock: MCD												
<i>RV</i>	0.554	0.357	<b>0.602</b>	0.584	0.486	0.587	<b>0.423</b>	0.213	0.308	0.396	0.369	0.396
<i>RV<sub>AC1</sub></i>	0.310	0.396	0.289	0.362	<b>0.420</b>	0.359	0.287	0.168	0.198	0.280	0.260	0.280
<i>RV<sub>TS</sub></i>	0.548	0.362	<b>0.590</b>	0.578	0.488	<b>0.581</b>	<b>0.416</b>	0.218	0.310	0.393	0.363	0.394
<i>RV<sub>TSd</sub></i>	0.431	0.410	0.430	0.478	0.484	0.476	<b>0.356</b>	0.192	0.216	0.340	0.325	0.340
$\overline{RV}$	0.552	0.359	<b>0.596</b>	0.582	0.487	0.584	<b>0.417</b>	0.218	0.314	0.394	0.364	0.395

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Full Sample (Cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: MMM												
<i>RV</i>	<b>0.585</b>	0.577	0.571	<b>0.582</b>	<b>0.588</b>	<b>0.582</b>	<b>0.529</b>	0.506	0.492	<b>0.521</b>	0.515	<b>0.521</b>
<i>RV<sub>AC1</sub></i>	<b>0.560</b>	<b>0.569</b>	0.539	0.554	<b>0.564</b>	0.554	<b>0.439</b>	<b>0.435</b>	0.393	0.427	<b>0.432</b>	0.427
<i>RV<sub>TS</sub></i>	<b>0.591</b>	0.583	0.576	<b>0.588</b>	<b>0.594</b>	<b>0.587</b>	<b>0.531</b>	0.507	0.497	<b>0.528</b>	0.520	<b>0.528</b>
<i>RV<sub>TSd</sub></i>	<b>0.584</b>	<b>0.580</b>	0.567	<b>0.581</b>	<b>0.589</b>	<b>0.581</b>	<b>0.481</b>	0.467	0.440	<b>0.475</b>	<b>0.471</b>	<b>0.475</b>
$\overline{RV}$	<b>0.591</b>	0.583	0.576	<b>0.588</b>	<b>0.594</b>	<b>0.588</b>	<b>0.531</b>	0.507	0.497	<b>0.528</b>	0.520	<b>0.528</b>
Stock: MO												
<i>RV</i>	0.669	0.451	<b>0.705</b>	0.667	0.562	0.671	0.379	0.358	<b>0.447</b>	0.370	0.340	0.372
<i>RV<sub>AC1</sub></i>	0.377	0.277	0.389	0.372	0.317	0.374	0.246	0.224	<b>0.311</b>	0.235	0.214	0.237
<i>RV<sub>TS</sub></i>	0.662	0.450	<b>0.697</b>	0.660	0.558	0.663	0.375	0.347	<b>0.453</b>	0.363	0.331	0.365
<i>RV<sub>TSd</sub></i>	0.503	0.361	<b>0.528</b>	0.500	0.432	0.502	0.293	0.274	<b>0.352</b>	0.282	0.262	0.284
$\overline{RV}$	0.668	0.452	<b>0.703</b>	0.665	0.561	0.669	0.378	0.350	<b>0.457</b>	0.366	0.333	0.368
Stock: MRK												
<i>RV</i>	<b>0.563</b>	0.525	0.553	0.555	0.544	0.556	0.468	0.385	<b>0.509</b>	0.477	0.450	0.477
<i>RV<sub>AC1</sub></i>	<b>0.569</b>	0.545	0.544	<b>0.561</b>	<b>0.563</b>	<b>0.560</b>	0.409	0.335	<b>0.453</b>	0.414	0.390	0.415
<i>RV<sub>TS</sub></i>	<b>0.561</b>	0.522	0.550	0.553	0.544	0.554	0.498	0.398	<b>0.540</b>	0.505	0.475	0.505
<i>RV<sub>TSd</sub></i>	<b>0.558</b>	0.535	0.529	<b>0.550</b>	<b>0.555</b>	<b>0.549</b>	0.485	0.387	<b>0.522</b>	0.496	0.470	0.496
$\overline{RV}$	<b>0.561</b>	0.522	0.552	0.553	0.543	0.554	0.498	0.399	<b>0.541</b>	0.505	0.475	0.505
Stock: MSFT												
<i>RV</i>	<b>0.615</b>	0.572	<b>0.622</b>	0.594	0.574	0.605	<b>0.530</b>	0.484	<b>0.529</b>	<b>0.523</b>	<b>0.521</b>	<b>0.525</b>
<i>RV<sub>AC1</sub></i>	<b>0.544</b>	<b>0.542</b>	<b>0.551</b>	0.517	0.505	0.539	<b>0.520</b>	0.496	0.481	0.499	0.499	0.503
<i>RV<sub>TS</sub></i>	<b>0.603</b>	0.555	<b>0.598</b>	0.588	0.571	0.589	<b>0.557</b>	0.513	0.547	<b>0.550</b>	<b>0.549</b>	<b>0.552</b>
<i>RV<sub>TSd</sub></i>	<b>0.587</b>	0.549	0.577	0.574	0.562	0.575	<b>0.554</b>	0.511	0.540	<b>0.547</b>	<b>0.546</b>	<b>0.549</b>
$\overline{RV}$	<b>0.612</b>	0.576	<b>0.621</b>	0.589	0.570	0.604	<b>0.560</b>	0.517	0.549	<b>0.552</b>	<b>0.551</b>	<b>0.555</b>
Stock: PG												
<i>RV</i>	0.704	0.614	<b>0.727</b>	0.710	0.658	0.712	<b>0.560</b>	0.509	<b>0.557</b>	0.536	0.507	0.537
<i>RV<sub>AC1</sub></i>	0.571	0.562	0.558	<b>0.581</b>	<b>0.575</b>	<b>0.581</b>	<b>0.490</b>	0.451	<b>0.480</b>	0.461	0.438	0.462
<i>RV<sub>TS</sub></i>	0.699	0.611	<b>0.722</b>	0.706	0.656	0.708	<b>0.572</b>	0.522	<b>0.567</b>	0.547	0.517	0.548
<i>RV<sub>TSd</sub></i>	0.639	0.599	0.636	<b>0.649</b>	0.629	<b>0.649</b>	<b>0.516</b>	0.466	0.489	0.487	0.460	0.487
$\overline{RV}$	0.702	0.611	<b>0.725</b>	0.708	0.656	0.710	<b>0.573</b>	0.523	<b>0.569</b>	0.548	0.518	0.549

Table continued on next page ...

Full Sample (End)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: SBC												
<i>RV</i>	<b>0.784</b>	0.759	0.767	<b>0.783</b>	<b>0.775</b>	<b>0.783</b>	0.655	0.594	0.609	<b>0.676</b>	0.660	<b>0.676</b>
<i>RV<sub>AC1</sub></i>	0.710	<b>0.743</b>	0.661	0.708	0.730	0.707	0.602	0.560	0.521	<b>0.617</b>	<b>0.617</b>	<b>0.617</b>
<i>RV<sub>TS</sub></i>	<b>0.784</b>	0.761	0.765	<b>0.782</b>	<b>0.776</b>	<b>0.782</b>	0.682	0.622	0.629	<b>0.702</b>	0.686	<b>0.702</b>
<i>RV<sub>TSd</sub></i>	0.764	<b>0.772</b>	0.724	0.764	<b>0.778</b>	0.763	0.625	0.581	0.543	<b>0.646</b>	<b>0.643</b>	<b>0.646</b>
$\overline{RV}$	<b>0.784</b>	0.759	0.766	<b>0.782</b>	<b>0.775</b>	<b>0.782</b>	0.682	0.622	0.630	<b>0.702</b>	0.686	<b>0.702</b>
Stock: T												
<i>RV</i>	0.640	0.416	<b>0.669</b>	0.636	0.470	0.646	<b>0.445</b>	0.335	0.398	0.437	0.398	0.438
<i>RV<sub>AC1</sub></i>	0.388	0.433	0.318	0.403	<b>0.455</b>	0.394	<b>0.377</b>	0.322	0.240	<b>0.379</b>	<b>0.372</b>	<b>0.378</b>
<i>RV<sub>TS</sub></i>	0.627	0.430	<b>0.639</b>	0.625	0.483	<b>0.632</b>	<b>0.439</b>	0.328	0.373	0.434	0.401	<b>0.435</b>
<i>RV<sub>TSd</sub></i>	0.449	0.460	0.376	0.464	<b>0.494</b>	0.455	<b>0.396</b>	0.312	0.290	<b>0.398</b>	0.382	<b>0.398</b>
$\overline{RV}$	0.634	0.417	<b>0.657</b>	0.630	0.471	0.639	<b>0.441</b>	0.328	0.382	0.435	0.401	<b>0.437</b>
Stock: UTX												
<i>RV</i>	0.363	0.370	0.357	0.361	0.363	0.361	0.361	0.381	0.322	0.370	0.391	0.370
<i>RV<sub>AC1</sub></i>	0.337	0.355	0.326	0.335	0.341	0.335	0.293	0.316	0.250	0.301	0.324	0.301
<i>RV<sub>TS</sub></i>	0.359	0.366	0.353	0.357	0.359	0.357	0.353	0.367	0.316	0.361	0.380	0.361
<i>RV<sub>TSd</sub></i>	0.350	0.361	0.342	0.348	0.352	0.348	0.326	0.343	0.283	0.332	0.353	0.332
$\overline{RV}$	0.359	0.366	0.353	0.358	0.359	0.357	0.353	0.367	0.316	0.361	0.380	0.361
Stock: WMT												
<i>RV</i>	<b>0.648</b>	0.616	<b>0.650</b>	<b>0.649</b>	0.606	<b>0.651</b>	<b>0.534</b>	<b>0.535</b>	0.511	<b>0.536</b>	<b>0.535</b>	<b>0.537</b>
<i>RV<sub>AC1</sub></i>	0.547	<b>0.569</b>	0.520	0.553	0.547	0.551	0.444	<b>0.467</b>	0.448	0.440	0.441	0.441
<i>RV<sub>TS</sub></i>	<b>0.646</b>	0.619	<b>0.645</b>	<b>0.648</b>	0.610	<b>0.649</b>	<b>0.549</b>	<b>0.551</b>	0.523	<b>0.552</b>	<b>0.551</b>	<b>0.553</b>
<i>RV<sub>TSd</sub></i>	0.586	<b>0.604</b>	0.544	0.592	<b>0.597</b>	0.589	<b>0.504</b>	<b>0.513</b>	0.471	<b>0.506</b>	<b>0.509</b>	<b>0.506</b>
$\overline{RV}$	<b>0.650</b>	0.618	<b>0.652</b>	<b>0.652</b>	0.609	<b>0.653</b>	<b>0.550</b>	<b>0.552</b>	0.525	<b>0.553</b>	<b>0.551</b>	<b>0.553</b>
Stock: XOM												
<i>RV</i>	<b>0.805</b>	0.751	<b>0.797</b>	<b>0.800</b>	0.792	<b>0.800</b>	0.681	0.630	0.672	<b>0.713</b>	0.681	<b>0.713</b>
<i>RV<sub>AC1</sub></i>	0.727	<b>0.749</b>	0.710	0.730	0.737	0.730	0.648	0.635	0.570	<b>0.673</b>	0.660	<b>0.673</b>
<i>RV<sub>TS</sub></i>	<b>0.809</b>	0.759	<b>0.801</b>	<b>0.805</b>	0.798	<b>0.805</b>	0.712	0.647	0.692	<b>0.740</b>	0.706	<b>0.740</b>
<i>RV<sub>TSd</sub></i>	<b>0.787</b>	0.750	0.772	<b>0.784</b>	<b>0.784</b>	<b>0.784</b>	0.681	0.644	0.626	<b>0.712</b>	0.692	<b>0.712</b>
$\overline{RV}$	<b>0.810</b>	0.759	<b>0.802</b>	<b>0.806</b>	0.799	<b>0.806</b>	0.713	0.647	0.693	<b>0.740</b>	0.706	<b>0.740</b>

**Table B-4:  $R^2$  Comparison of MIDAS Models for the Individual DJIA Stocks, Two-Year Out-of-Sample (2003–2004)**

Each entry in the table corresponds to the  $R^2$  for the different models (Section 2) and the different return sampling frequencies. The regressions are run on a weekly (5 days) data sampling scheme. The names of the variables are consistent with the section describing realized volatility estimators. To preserve the table format,  $RV_{NWAC}$  is replaced by  $RV_{NW}$ . Every column in the panel corresponds to the explanatory power of the different left-hand side variables for the same right-hand side variable. The first panel contains results for the regressions constructed exclusively using one-minutes returns, the second contains results for the five-minutes returns.

	$RV$	$RV_{AC1}$	$RV_{NW}$	$RV_{TS}$	$RV_{TSd}$	$\overline{RV}$	$RV$	$RV_{AC1}$	$RV_{NW}$	$RV_{TS}$	$RV_{TSd}$	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: AA												
$RV$	0.538	0.468	<b>0.555</b>	0.521	0.478	0.524	<b>0.436</b>	0.299	0.404	0.386	0.376	0.386
$RV_{AC1}$	<b>0.448</b>	0.393	<b>0.447</b>	0.430	0.390	0.433	<b>0.199</b>	0.151	<b>0.203</b>	0.145	0.165	0.146
$RV_{TS}$	0.552	0.471	<b>0.569</b>	0.535	0.488	0.538	<b>0.414</b>	0.295	0.396	<b>0.358</b>	0.356	0.358
$RV_{TSd}$	<b>0.534</b>	0.473	<b>0.538</b>	0.522	0.487	0.524	<b>0.321</b>	0.218	0.280	0.250	0.270	0.251
$\overline{RV}$	0.551	0.470	<b>0.569</b>	0.534	0.486	0.536	<b>0.414</b>	0.295	0.397	0.358	0.357	0.359
Stock: AXP												
$RV$	0.791	0.714	0.774	0.791	<b>0.795</b>	0.791	0.675	0.616	<b>0.747</b>	0.724	0.665	0.724
$RV_{AC1}$	0.746	0.720	0.727	0.754	<b>0.766</b>	0.753	0.635	0.610	0.685	0.690	0.649	0.690
$RV_{TS}$	0.790	0.715	0.774	0.792	<b>0.795</b>	0.792	0.695	0.634	<b>0.764</b>	0.738	0.679	0.739
$RV_{TSd}$	0.767	0.705	0.747	0.774	<b>0.784</b>	0.774	0.682	0.654	0.723	<b>0.740</b>	0.697	<b>0.740</b>
$\overline{RV}$	0.791	0.715	0.775	0.792	<b>0.795</b>	0.792	0.695	0.634	<b>0.764</b>	0.738	0.678	0.739
Stock: BA												
$RV$	<b>0.790</b>	0.674	0.777	<b>0.788</b>	0.776	<b>0.788</b>	0.644	0.410	<b>0.688</b>	0.650	0.502	0.652
$RV_{AC1}$	0.712	0.711	0.682	0.712	<b>0.727</b>	0.712	0.450	0.356	0.354	0.463	0.412	0.464
$RV_{TS}$	<b>0.796</b>	0.686	0.781	<b>0.795</b>	0.786	<b>0.795</b>	0.650	0.412	0.673	0.656	0.511	0.657
$RV_{TSd}$	<b>0.787</b>	0.708	0.756	<b>0.786</b>	<b>0.794</b>	<b>0.785</b>	0.573	0.418	0.466	0.583	0.504	0.583
$\overline{RV}$	<b>0.796</b>	0.685	0.783	<b>0.795</b>	0.785	<b>0.795</b>	0.650	0.413	0.675	0.656	0.511	0.657
Stock: C												
$RV$	0.710	0.658	0.721	0.718	0.710	0.720	0.560	0.493	<b>0.670</b>	0.581	0.541	0.581
$RV_{AC1}$	0.676	0.631	0.681	0.683	0.679	0.684	0.492	0.437	<b>0.607</b>	0.515	0.480	0.516
$RV_{TS}$	0.701	0.650	0.712	0.710	0.703	0.711	0.572	0.503	<b>0.680</b>	0.591	0.552	0.592
$RV_{TSd}$	0.691	0.643	0.696	0.699	0.697	0.700	0.552	0.488	<b>0.656</b>	0.571	0.534	0.572
$\overline{RV}$	0.701	0.649	0.712	0.709	0.702	0.711	0.573	0.503	<b>0.681</b>	0.591	0.552	0.592
Stock: CAT												
$RV$	<b>0.614</b>	0.572	<b>0.624</b>	<b>0.622</b>	0.599	<b>0.623</b>	0.452	0.383	0.469	0.456	0.402	0.456
$RV_{AC1}$	0.542	<b>0.551</b>	0.516	<b>0.549</b>	<b>0.555</b>	<b>0.549</b>	0.199	0.091	0.305	0.250	0.191	0.249
$RV_{TS}$	<b>0.616</b>	0.573	<b>0.625</b>	<b>0.625</b>	0.604	<b>0.626</b>	0.447	0.369	<b>0.482</b>	0.451	0.393	0.452
$RV_{TSd}$	0.610	0.590	0.596	<b>0.620</b>	<b>0.621</b>	<b>0.620</b>	0.339	0.129	0.392	0.382	0.350	0.382
$\overline{RV}$	<b>0.616</b>	0.572	<b>0.625</b>	<b>0.624</b>	0.602	<b>0.625</b>	0.447	0.369	<b>0.483</b>	0.452	0.393	0.452

Two-years out-of-sample (Cont.)

	<i>RV</i>	<i>RV</i> <sub>AC1</sub>	<i>RV</i> <sub>NW</sub>	<i>RV</i> <sub>TS</sub>	<i>RV</i> <sub>TSd</sub>	$\overline{RV}$	<i>RV</i>	<i>RV</i> <sub>AC1</sub>	<i>RV</i> <sub>NW</sub>	<i>RV</i> <sub>TS</sub>	<i>RV</i> <sub>TSd</sub>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: DD												
<i>RV</i>	<b>0.682</b>	0.616	0.672	<b>0.683</b>	<b>0.679</b>	<b>0.683</b>	0.561	0.475	0.558	0.574	0.509	0.575
<i>RV</i> <sub>AC1</sub>	0.612	0.600	0.530	0.616	<b>0.638</b>	0.614	0.408	0.364	0.395	0.419	0.387	0.419
<i>RV</i> <sub>TS</sub>	<b>0.678</b>	0.610	0.664	<b>0.678</b>	<b>0.674</b>	<b>0.678</b>	0.568	0.461	0.568	0.582	0.509	0.582
<i>RV</i> <sub>TSd</sub>	0.652	0.608	0.599	<b>0.669</b>	<b>0.666</b>	<b>0.667</b>	0.520	0.444	0.492	0.551	0.485	0.552
$\overline{RV}$	<b>0.679</b>	0.610	0.667	<b>0.679</b>	<b>0.674</b>	<b>0.679</b>	0.568	0.462	0.570	0.582	0.509	0.582
Stock: DIS												
<i>RV</i>	0.732	0.654	<b>0.753</b>	<b>0.746</b>	0.721	<b>0.748</b>	0.583	0.432	<b>0.653</b>	0.577	0.476	0.579
<i>RV</i> <sub>AC1</sub>	0.617	0.653	<b>0.688</b>	0.663	0.654	0.667	0.434	0.366	0.438	0.506	0.444	0.508
<i>RV</i> <sub>TS</sub>	0.717	0.646	<b>0.741</b>	<b>0.734</b>	0.710	<b>0.736</b>	0.601	0.463	<b>0.667</b>	0.611	0.508	0.613
<i>RV</i> <sub>TSd</sub>	0.703	0.659	<b>0.729</b>	<b>0.725</b>	0.708	<b>0.727</b>	0.525	0.429	0.539	<b>0.565</b>	0.483	<b>0.566</b>
$\overline{RV}$	0.718	0.646	<b>0.742</b>	<b>0.735</b>	0.710	<b>0.736</b>	0.602	0.463	<b>0.668</b>	0.612	0.508	0.613
Stock: EK												
<i>RV</i>	0.286	0.200	0.303	0.277	0.255	0.277	0.138	0.130	<b>0.212</b>	0.154	0.127	0.154
<i>RV</i> <sub>AC1</sub>	0.248	0.183	0.261	0.238	0.217	0.238	-0.047	-0.236	<b>0.003</b>	-0.096	-0.114	-0.096
<i>RV</i> <sub>TS</sub>	0.298	0.210	0.316	0.289	0.266	0.289	0.114	0.103	<b>0.187</b>	0.127	0.100	0.128
<i>RV</i> <sub>TSd</sub>	0.297	0.212	0.311	0.288	0.265	0.288	0.074	-0.239	<b>0.109</b>	-0.028	-0.061	-0.027
$\overline{RV}$	0.298	0.210	0.316	0.289	0.266	0.289	0.114	0.103	<b>0.187</b>	0.128	0.100	0.128
Stock: GE												
<i>RV</i>	<b>0.724</b>	0.629	<b>0.728</b>	<b>0.726</b>	0.688	<b>0.728</b>	0.584	0.408	<b>0.633</b>	0.574	0.522	0.575
<i>RV</i> <sub>AC1</sub>	<b>0.662</b>	0.634	0.618	<b>0.668</b>	<b>0.660</b>	<b>0.667</b>	0.532	0.373	0.553	0.525	0.482	0.526
<i>RV</i> <sub>TS</sub>	<b>0.720</b>	0.631	<b>0.721</b>	<b>0.723</b>	0.688	<b>0.724</b>	0.598	0.423	<b>0.637</b>	0.589	0.538	0.591
<i>RV</i> <sub>TSd</sub>	<b>0.705</b>	0.653	0.683	<b>0.711</b>	0.698	<b>0.710</b>	0.597	0.432	0.610	0.586	0.541	0.587
$\overline{RV}$	<b>0.722</b>	0.630	<b>0.726</b>	<b>0.725</b>	0.687	<b>0.727</b>	0.598	0.423	<b>0.639</b>	0.589	0.537	0.591
Stock: GM												
<i>RV</i>	<b>0.747</b>	0.678	<b>0.751</b>	<b>0.751</b>	<b>0.745</b>	<b>0.751</b>	0.543	0.523	<b>0.564</b>	<b>0.560</b>	0.510	<b>0.560</b>
<i>RV</i> <sub>AC1</sub>	<b>0.606</b>	0.570	0.590	<b>0.598</b>	<b>0.602</b>	<b>0.599</b>	0.420	0.410	<b>0.457</b>	0.440	0.395	0.441
<i>RV</i> <sub>TS</sub>	<b>0.737</b>	0.670	<b>0.740</b>	<b>0.741</b>	<b>0.735</b>	<b>0.741</b>	0.554	0.540	<b>0.577</b>	0.563	0.514	0.564
<i>RV</i> <sub>TSd</sub>	<b>0.712</b>	0.647	<b>0.711</b>	<b>0.714</b>	<b>0.711</b>	<b>0.715</b>	0.467	0.466	<b>0.469</b>	<b>0.477</b>	0.436	<b>0.478</b>
$\overline{RV}$	<b>0.738</b>	0.671	<b>0.741</b>	<b>0.742</b>	<b>0.736</b>	<b>0.742</b>	0.555	0.541	<b>0.578</b>	0.564	0.515	0.565

Table continued on next page ...

Two-years out-of-sample (Cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: HD												
<i>RV</i>	<b>0.648</b>	0.500	<b>0.646</b>	0.619	0.580	0.623	0.355	0.178	<b>0.390</b>	<b>0.384</b>	0.345	<b>0.385</b>
<i>RV<sub>AC1</sub></i>	<b>0.463</b>	0.418	<b>0.453</b>	0.414	0.410	0.420	0.191	0.002	0.220	<b>0.235</b>	0.208	<b>0.236</b>
<i>RV<sub>TS</sub></i>	<b>0.639</b>	0.492	<b>0.639</b>	0.610	0.572	0.614	0.356	0.183	<b>0.394</b>	<b>0.392</b>	0.352	<b>0.393</b>
<i>RV<sub>TSd</sub></i>	<b>0.596</b>	0.476	<b>0.593</b>	0.563	0.537	0.567	0.260	0.100	0.223	<b>0.308</b>	0.289	<b>0.309</b>
$\overline{RV}$	<b>0.640</b>	0.491	<b>0.641</b>	0.611	0.572	0.616	0.358	0.185	<b>0.398</b>	<b>0.394</b>	0.353	<b>0.395</b>
Stock: HON												
<i>RV</i>	0.445	0.380	0.454	0.443	0.421	0.444	0.384	0.355	0.370	0.372	0.356	0.373
<i>RV<sub>AC1</sub></i>	0.400	0.391	0.385	0.402	0.406	0.401	0.325	0.301	0.328	0.313	0.296	0.313
<i>RV<sub>TS</sub></i>	0.453	0.393	0.460	0.452	0.432	0.453	0.385	0.355	0.377	0.374	0.355	0.374
<i>RV<sub>TSd</sub></i>	0.426	0.394	0.419	0.427	0.421	0.426	0.344	0.321	0.328	0.335	0.322	0.335
$\overline{RV}$	0.454	0.392	0.461	0.453	0.432	0.454	0.385	0.355	0.378	0.374	0.355	0.374
Stock: HPQ												
<i>RV</i>	<b>0.681</b>	<b>0.687</b>	0.665	<b>0.685</b>	<b>0.688</b>	<b>0.684</b>	<b>0.596</b>	0.564	0.549	<b>0.603</b>	<b>0.593</b>	<b>0.602</b>
<i>RV<sub>AC1</sub></i>	0.605	<b>0.639</b>	0.576	0.616	<b>0.637</b>	0.613	0.442	0.427	0.406	0.456	0.450	0.455
<i>RV<sub>TS</sub></i>	0.669	<b>0.682</b>	0.649	<b>0.674</b>	<b>0.681</b>	<b>0.672</b>	0.608	0.584	0.569	<b>0.621</b>	<b>0.613</b>	<b>0.620</b>
<i>RV<sub>TSd</sub></i>	0.632	<b>0.659</b>	0.606	0.642	<b>0.660</b>	0.639	0.578	0.554	0.535	<b>0.591</b>	<b>0.584</b>	<b>0.591</b>
$\overline{RV}$	0.672	<b>0.684</b>	0.654	<b>0.676</b>	<b>0.682</b>	<b>0.675</b>	0.609	0.585	0.571	<b>0.622</b>	<b>0.614</b>	<b>0.621</b>
Stock: IBM												
<i>RV</i>	<b>0.706</b>	0.700	0.699	<b>0.709</b>	<b>0.712</b>	<b>0.709</b>	0.608	0.594	0.619	0.641	0.620	0.642
<i>RV<sub>AC1</sub></i>	<b>0.653</b>	<b>0.658</b>	0.633	<b>0.654</b>	<b>0.662</b>	<b>0.654</b>	0.587	0.597	0.617	0.620	0.597	0.620
<i>RV<sub>TS</sub></i>	<b>0.714</b>	0.706	0.708	<b>0.716</b>	<b>0.719</b>	<b>0.717</b>	0.644	0.623	0.660	0.674	0.648	0.674
<i>RV<sub>TSd</sub></i>	<b>0.697</b>	0.692	0.687	<b>0.698</b>	<b>0.703</b>	<b>0.698</b>	0.625	0.610	0.628	0.654	0.631	0.654
$\overline{RV}$	<b>0.715</b>	0.706	0.709	<b>0.717</b>	<b>0.720</b>	<b>0.717</b>	0.644	0.624	0.661	0.675	0.649	0.675
Stock: INTC												
<i>RV</i>	<b>0.614</b>	0.577	<b>0.621</b>	0.604	0.597	0.611	0.498	0.479	<b>0.531</b>	0.501	0.498	0.502
<i>RV<sub>AC1</sub></i>	<b>0.552</b>	<b>0.546</b>	<b>0.552</b>	<b>0.547</b>	<b>0.545</b>	<b>0.552</b>	0.415	0.376	<b>0.448</b>	0.408	0.405	0.409
<i>RV<sub>TS</sub></i>	<b>0.603</b>	0.572	<b>0.605</b>	<b>0.595</b>	0.589	<b>0.600</b>	0.519	0.498	<b>0.547</b>	0.517	0.514	0.518
<i>RV<sub>TSd</sub></i>	<b>0.573</b>	0.549	<b>0.567</b>	<b>0.567</b>	<b>0.567</b>	<b>0.570</b>	0.509	0.490	<b>0.534</b>	0.508	0.506	0.509
$\overline{RV}$	<b>0.616</b>	0.582	<b>0.624</b>	0.605	0.597	0.612	0.522	0.500	<b>0.552</b>	0.519	0.517	0.521

Table continued on next page ...

Two-years out-of-sample (Cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: IP												
<i>RV</i>	0.712	0.724	0.695	0.723	<b>0.731</b>	0.723	0.620	0.540	0.591	0.647	0.611	0.647
<i>RV<sub>AC1</sub></i>	0.619	<b>0.685</b>	0.577	0.632	0.671	0.631	0.467	0.427	0.422	0.482	0.474	0.482
<i>RV<sub>TS</sub></i>	0.715	0.728	0.697	0.726	<b>0.736</b>	0.726	0.635	0.551	0.600	0.661	0.623	0.661
<i>RV<sub>TSd</sub></i>	0.676	<b>0.717</b>	0.643	0.689	<b>0.716</b>	0.688	0.587	0.525	0.538	0.610	0.584	0.610
$\overline{RV}$	0.717	0.729	0.699	0.728	<b>0.737</b>	0.728	0.636	0.552	0.601	0.662	0.623	0.662
Stock: JNJ												
<i>RV</i>	0.758	0.646	<b>0.770</b>	0.755	0.733	0.757	0.540	0.409	0.598	0.540	0.459	0.541
<i>RV<sub>AC1</sub></i>	0.685	0.639	0.671	0.678	0.682	0.678	0.329	0.230	0.326	0.318	0.261	0.318
<i>RV<sub>TS</sub></i>	0.762	0.651	0.772	0.759	0.738	0.760	0.552	0.418	0.602	0.548	0.466	0.548
<i>RV<sub>TSd</sub></i>	0.763	0.669	0.767	0.759	0.746	0.760	0.460	0.348	0.415	0.454	0.397	0.454
$\overline{RV}$	0.761	0.650	<b>0.772</b>	0.758	0.737	0.759	0.552	0.418	0.604	0.548	0.467	0.549
Stock: JPM												
<i>RV</i>	0.643	0.610	0.650	0.654	0.655	0.654	0.470	0.338	0.546	0.464	0.407	0.464
<i>RV<sub>AC1</sub></i>	0.564	0.543	0.568	0.574	0.577	0.574	0.435	0.318	0.479	0.424	0.377	0.424
<i>RV<sub>TS</sub></i>	0.636	0.602	0.643	0.647	0.648	0.647	0.477	0.344	0.549	0.471	0.414	0.471
<i>RV<sub>TSd</sub></i>	0.603	0.575	0.608	0.613	0.616	0.614	0.440	0.319	0.498	0.434	0.383	0.434
$\overline{RV}$	0.638	0.603	0.645	0.648	0.650	0.649	0.478	0.344	0.551	0.472	0.415	0.472
Stock: KO												
<i>RV</i>	0.563	<b>0.604</b>	0.560	0.558	0.554	0.559	0.356	<b>0.452</b>	0.425	0.309	0.245	0.309
<i>RV<sub>AC1</sub></i>	0.430	0.419	0.444	0.424	0.411	0.427	0.250	<b>0.405</b>	0.335	0.204	0.141	0.205
<i>RV<sub>TS</sub></i>	0.565	<b>0.608</b>	0.561	0.562	0.559	0.563	0.348	<b>0.458</b>	0.410	0.296	0.235	0.297
<i>RV<sub>TSd</sub></i>	0.532	<b>0.597</b>	0.526	0.534	0.533	0.534	0.226	<b>0.419</b>	0.313	0.185	0.128	0.186
$\overline{RV}$	0.566	<b>0.608</b>	0.562	0.563	0.560	0.563	0.349	<b>0.458</b>	0.411	0.297	0.236	0.298
Stock: MCD												
<i>RV</i>	0.680	0.490	<b>0.704</b>	0.676	0.622	0.678	0.373	0.290	0.360	0.373	0.316	0.374
<i>RV<sub>AC1</sub></i>	0.476	0.438	0.437	0.475	0.482	0.474	0.307	0.268	0.231	0.306	0.283	0.306
<i>RV<sub>TS</sub></i>	0.683	0.494	<b>0.703</b>	0.679	0.627	0.681	0.386	0.302	0.387	0.392	0.332	0.394
<i>RV<sub>TSd</sub></i>	0.612	0.501	0.601	0.611	0.588	0.611	0.317	0.264	0.274	0.321	0.289	0.322
$\overline{RV}$	0.687	0.494	<b>0.708</b>	0.683	0.629	0.685	0.388	0.303	0.390	0.394	0.333	0.395

Table continued on next page ...

Two-years out-of-sample (Cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: MMM												
<i>RV</i>	0.392	0.300	0.406	0.414	0.412	0.414	0.198	0.162	0.217	0.227	0.172	0.227
<i>RV<sub>AC1</sub></i>	0.184	<b>0.243</b>	0.183	0.217	<b>0.237</b>	0.217	0.181	0.166	0.170	0.205	0.171	0.205
<i>RV<sub>TS</sub></i>	0.384	0.290	0.398	0.408	0.406	0.407	0.151	0.169	0.214	0.212	0.124	0.212
<i>RV<sub>TSd</sub></i>	0.358	0.286	0.364	0.383	0.390	0.383	0.011	0.144	0.122	0.120	0.063	0.120
$\overline{RV}$	0.384	0.290	0.399	0.408	0.406	0.408	0.152	0.170	0.215	0.212	0.124	0.213
Stock: MO												
<i>RV</i>	0.366	0.328	0.403	0.369	0.328	0.372	0.252	0.277	0.304	0.281	0.270	0.282
<i>RV<sub>AC1</sub></i>	0.310	0.302	0.323	0.316	0.302	0.317	0.080	0.115	0.122	0.112	0.114	0.112
<i>RV<sub>TS</sub></i>	0.360	0.324	0.398	0.366	0.326	0.368	0.247	0.281	0.320	0.283	0.273	0.284
<i>RV<sub>TSd</sub></i>	0.360	0.337	0.390	0.371	0.344	0.372	0.240	0.263	0.295	0.267	0.259	0.268
$\overline{RV}$	0.361	0.324	0.399	0.366	0.326	0.369	0.247	0.281	0.321	0.284	0.274	0.284
Stock: MRK												
<i>RV</i>	0.498	0.450	0.500	0.504	0.505	0.504	0.338	0.316	0.388	0.354	0.320	0.355
<i>RV<sub>AC1</sub></i>	0.414	0.394	0.415	0.418	0.425	0.418	0.323	0.324	0.360	0.341	0.314	0.341
<i>RV<sub>TS</sub></i>	0.492	0.442	0.494	0.499	0.500	0.499	0.371	0.355	0.436	0.399	0.360	0.399
<i>RV<sub>TSd</sub></i>	0.483	0.435	0.483	0.491	0.495	0.491	0.358	0.358	0.395	0.383	0.353	0.383
$\overline{RV}$	0.492	0.442	0.494	0.499	0.499	0.499	0.371	0.355	0.437	0.399	0.360	0.399
Stock: MSFT												
<i>RV</i>	0.638	0.629	0.612	0.641	<b>0.660</b>	0.639	0.547	0.540	0.545	0.567	0.572	0.566
<i>RV<sub>AC1</sub></i>	0.574	0.577	0.550	0.578	<b>0.601</b>	0.579	0.509	0.497	0.506	<b>0.525</b>	<b>0.530</b>	<b>0.525</b>
<i>RV<sub>TS</sub></i>	0.632	0.623	0.603	0.637	<b>0.658</b>	0.633	0.557	0.552	0.557	0.578	0.583	0.578
<i>RV<sub>TSd</sub></i>	0.605	0.599	0.571	0.611	<b>0.637</b>	0.605	0.550	0.545	0.546	0.570	0.575	0.569
$\overline{RV}$	0.643	0.637	0.618	0.646	<b>0.666</b>	0.645	0.559	0.554	0.560	0.581	0.586	0.580
Stock: PG												
<i>RV</i>	0.577	0.568	0.544	0.575	<b>0.600</b>	0.575	0.472	0.386	0.394	<b>0.508</b>	0.430	<b>0.509</b>
<i>RV<sub>AC1</sub></i>	0.494	<b>0.580</b>	0.452	0.483	0.513	0.484	0.313	0.307	0.107	<b>0.369</b>	0.345	<b>0.369</b>
<i>RV<sub>TS</sub></i>	0.579	0.567	0.546	0.578	<b>0.603</b>	0.578	0.474	0.380	0.385	<b>0.515</b>	0.431	<b>0.515</b>
<i>RV<sub>TSd</sub></i>	0.571	0.573	0.529	0.571	<b>0.603</b>	0.570	0.413	0.378	0.237	<b>0.468</b>	0.431	<b>0.468</b>
$\overline{RV}$	0.579	0.566	0.546	0.578	<b>0.602</b>	0.578	0.475	0.380	0.385	<b>0.515</b>	0.431	<b>0.515</b>

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Two-years out-of-sample (End)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: SBC												
<i>RV</i>	<b>0.838</b>	0.804	<b>0.833</b>	<b>0.838</b>	<b>0.833</b>	<b>0.838</b>	0.743	0.697	<b>0.768</b>	0.751	0.725	0.752
<i>RV<sub>AC1</sub></i>	<b>0.792</b>	0.770	0.775	<b>0.788</b>	<b>0.793</b>	<b>0.788</b>	0.611	0.613	<b>0.629</b>	0.605	0.587	0.605
<i>RV<sub>TS</sub></i>	<b>0.836</b>	0.802	<b>0.828</b>	<b>0.835</b>	<b>0.830</b>	<b>0.835</b>	0.746	0.703	<b>0.756</b>	<b>0.752</b>	0.729	<b>0.753</b>
<i>RV<sub>TSd</sub></i>	<b>0.824</b>	0.798	0.798	<b>0.821</b>	<b>0.823</b>	<b>0.820</b>	<b>0.702</b>	0.681	<b>0.703</b>	<b>0.703</b>	0.688	<b>0.703</b>
$\overline{RV}$	<b>0.836</b>	0.802	<b>0.829</b>	<b>0.836</b>	<b>0.830</b>	<b>0.835</b>	0.746	0.703	<b>0.757</b>	<b>0.753</b>	0.730	<b>0.753</b>
Stock: T												
<i>RV</i>	<b>0.488</b>	0.464	0.461	<b>0.485</b>	<b>0.487</b>	<b>0.485</b>	0.307	0.287	0.081	0.314	0.299	0.313
<i>RV<sub>AC1</sub></i>	0.314	0.364	0.115	0.329	<b>0.377</b>	0.311	0.226	0.207	0.084	0.233	0.221	0.233
<i>RV<sub>TS</sub></i>	<b>0.501</b>	0.475	0.463	<b>0.499</b>	<b>0.499</b>	<b>0.498</b>	0.340	0.319	0.113	0.346	0.329	0.346
<i>RV<sub>TSd</sub></i>	0.418	0.445	0.150	0.425	<b>0.463</b>	0.417	0.296	0.279	0.115	0.302	0.288	0.302
$\overline{RV}$	<b>0.500</b>	0.474	0.469	<b>0.497</b>	<b>0.497</b>	<b>0.497</b>	0.341	0.320	0.111	0.347	0.329	0.347
Stock: UTX												
<i>RV</i>	0.528	0.515	0.508	0.544	<b>0.563</b>	0.543	0.422	0.355	0.437	0.446	0.399	0.446
<i>RV<sub>AC1</sub></i>	0.481	0.451	0.458	0.490	<b>0.504</b>	0.489	0.380	0.293	0.371	0.394	0.367	0.394
<i>RV<sub>TS</sub></i>	0.526	0.514	0.507	0.543	<b>0.562</b>	0.542	0.418	0.344	0.450	0.436	0.382	0.437
<i>RV<sub>TSd</sub></i>	0.514	0.506	0.493	0.531	<b>0.553</b>	0.530	0.390	0.311	0.394	0.402	0.361	0.402
$\overline{RV}$	0.526	0.514	0.507	0.543	<b>0.562</b>	0.542	0.419	0.344	0.451	0.437	0.382	0.437
Stock: WMT												
<i>RV</i>	<b>0.654</b>	0.614	<b>0.651</b>	<b>0.656</b>	<b>0.652</b>	<b>0.656</b>	0.513	0.494	<b>0.580</b>	0.525	0.475	0.525
<i>RV<sub>AC1</sub></i>	<b>0.622</b>	0.597	<b>0.615</b>	<b>0.623</b>	<b>0.624</b>	<b>0.623</b>	0.418	0.407	<b>0.457</b>	0.431	0.389	0.431
<i>RV<sub>TS</sub></i>	<b>0.654</b>	0.612	<b>0.650</b>	<b>0.657</b>	<b>0.652</b>	<b>0.656</b>	0.527	0.506	<b>0.588</b>	0.540	0.489	0.540
<i>RV<sub>TSd</sub></i>	<b>0.655</b>	0.620	0.640	<b>0.658</b>	<b>0.659</b>	<b>0.657</b>	0.472	0.466	<b>0.515</b>	0.487	0.448	0.487
$\overline{RV}$	<b>0.654</b>	0.612	<b>0.651</b>	<b>0.656</b>	<b>0.651</b>	<b>0.656</b>	0.527	0.506	<b>0.588</b>	0.540	0.489	0.540
Stock: XOM												
<i>RV</i>	<b>0.775</b>	0.711	<b>0.775</b>	<b>0.772</b>	0.758	<b>0.772</b>	0.565	0.464	<b>0.627</b>	0.586	0.521	0.587
<i>RV<sub>AC1</sub></i>	<b>0.665</b>	0.643	0.646	<b>0.659</b>	<b>0.662</b>	<b>0.659</b>	0.428	0.363	0.457	0.457	0.405	0.457
<i>RV<sub>TS</sub></i>	<b>0.778</b>	0.712	<b>0.779</b>	<b>0.775</b>	0.761	<b>0.776</b>	0.562	0.462	<b>0.625</b>	0.583	0.516	0.584
<i>RV<sub>TSd</sub></i>	<b>0.756</b>	0.709	<b>0.746</b>	<b>0.753</b>	<b>0.748</b>	<b>0.753</b>	0.498	0.416	0.525	0.525	0.472	0.526
$\overline{RV}$	<b>0.779</b>	0.713	<b>0.780</b>	<b>0.776</b>	0.762	<b>0.777</b>	0.563	0.463	<b>0.627</b>	0.584	0.517	0.585

**Table B-5:  $R^2$  Comparison of MIDAS Models for the Individual DJIA Stocks, One-Year Out-of-Sample (2002)**

Each entry in the table corresponds to the  $R^2$  for the different models (Section 2) and the different return sampling frequencies. The regressions are run on a weekly (5 days) data sampling scheme. The names of the variables are consistent with the section describing realized volatility estimators. To preserve the table format,  $RV_{NWAC}$  is replaced by  $RV_{NW}$ . Every column in the panel corresponds to the explanatory power of the different left-hand side variables for the same right-hand side variable. The first panel contains results for the regressions constructed exclusively using one-minutes returns, the second contains results for the five-minutes returns.

	$RV$	$RV_{AC1}$	$RV_{NW}$	$RV_{TS}$	$RV_{TSd}$	$\overline{RV}$	$RV$	$RV_{AC1}$	$RV_{NW}$	$RV_{TS}$	$RV_{TSd}$	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: AA												
$RV$	0.692	0.551	0.653	<b>0.706</b>	0.642	<b>0.706</b>	0.691	0.618	0.537	<b>0.738</b>	0.700	<b>0.738</b>
$RV_{AC1}$	0.515	<b>0.698</b>	0.411	0.534	0.652	0.528	0.591	0.539	0.476	<b>0.629</b>	0.596	<b>0.630</b>
$RV_{TS}$	0.693	0.564	0.650	<b>0.706</b>	0.651	<b>0.706</b>	0.641	0.563	0.488	<b>0.694</b>	0.652	<b>0.694</b>
$RV_{TSd}$	0.611	<b>0.696</b>	0.517	0.630	<b>0.703</b>	<b>0.625</b>	0.603	0.549	0.442	<b>0.669</b>	0.633	<b>0.669</b>
$\overline{RV}$	0.694	0.552	0.654	<b>0.707</b>	0.643	<b>0.707</b>	0.642	0.564	0.491	<b>0.695</b>	0.653	<b>0.695</b>
Stock: AXP												
$RV$	<b>0.632</b>	0.587	0.609	<b>0.626</b>	<b>0.625</b>	<b>0.626</b>	0.578	0.529	0.592	<b>0.610</b>	0.585	<b>0.610</b>
$RV_{AC1}$	<b>0.638</b>	0.629	0.594	0.629	<b>0.642</b>	0.628	0.542	0.495	0.554	<b>0.570</b>	0.549	<b>0.571</b>
$RV_{TS}$	<b>0.636</b>	0.594	0.610	<b>0.629</b>	<b>0.628</b>	<b>0.629</b>	0.587	0.538	0.596	<b>0.621</b>	0.596	<b>0.621</b>
$RV_{TSd}$	<b>0.617</b>	0.591	0.573	0.610	<b>0.623</b>	0.609	0.583	0.543	0.580	<b>0.617</b>	0.597	<b>0.617</b>
$\overline{RV}$	<b>0.638</b>	0.595	0.613	<b>0.630</b>	0.583	<b>0.630</b>	0.587	0.538	0.596	<b>0.621</b>	0.596	<b>0.621</b>
Stock: BA												
$RV$	0.582	0.528	0.538	0.580	0.595	0.579	<b>0.591</b>	0.369	0.561	0.575	0.486	0.575
$RV_{AC1}$	0.591	0.606	0.527	0.588	<b>0.625</b>	0.585	0.409	0.352	0.391	<b>0.420</b>	0.378	<b>0.420</b>
$RV_{TS}$	0.576	0.527	0.528	0.575	0.593	0.573	0.567	0.341	0.547	0.565	0.470	0.566
$RV_{TSd}$	0.544	0.519	0.480	0.542	0.578	0.540	<b>0.559</b>	0.401	0.486	<b>0.558</b>	0.504	<b>0.558</b>
$\overline{RV}$	0.578	0.528	0.531	0.577	0.594	0.575	0.567	0.341	0.548	0.565	0.473	0.566
Stock: C												
$RV$	0.274	0.278	0.270	0.278	0.281	0.277	0.242	0.214	0.190	0.228	0.227	0.228
$RV_{AC1}$	0.234	0.238	0.229	0.235	0.237	0.235	0.236	0.200	0.153	0.213	0.224	0.212
$RV_{TS}$	0.281	0.282	0.277	0.285	0.288	0.284	0.263	0.230	0.206	0.247	0.246	0.247
$RV_{TSd}$	0.270	0.269	0.257	0.271	0.277	0.270	0.252	0.219	0.180	0.233	0.240	0.232
$\overline{RV}$	0.282	0.284	0.279	0.286	0.289	0.286	0.263	0.230	0.206	0.247	0.246	0.247
Stock: CAT												
$RV$	<b>0.732</b>	0.500	0.689	<b>0.729</b>	0.665	<b>0.729</b>	0.650	0.618	0.475	<b>0.661</b>	<b>0.660</b>	<b>0.661</b>
$RV_{AC1}$	0.549	<b>0.672</b>	0.431	0.546	0.635	0.541	0.577	0.562	0.426	<b>0.584</b>	<b>0.593</b>	<b>0.584</b>
$RV_{TS}$	<b>0.739</b>	0.504	0.697	<b>0.736</b>	0.672	<b>0.736</b>	<b>0.644</b>	0.610	0.475	<b>0.653</b>	<b>0.649</b>	<b>0.654</b>
$RV_{TSd}$	0.685	0.679	0.581	0.681	<b>0.722</b>	0.678	0.605	0.576	0.423	<b>0.616</b>	<b>0.621</b>	<b>0.616</b>
$\overline{RV}$	<b>0.739</b>	0.491	0.700	<b>0.736</b>	0.666	<b>0.736</b>	<b>0.644</b>	0.610	0.476	<b>0.654</b>	<b>0.649</b>	<b>0.654</b>

One-years out-of-sample (Cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: DD												
<i>RV</i>	<b>0.753</b>	0.678	0.705	<b>0.753</b>	0.675	<b>0.752</b>	<b>0.641</b>	0.456	0.531	<b>0.633</b>	0.592	<b>0.633</b>
<i>RV<sub>AC1</sub></i>	0.553	<b>0.674</b>	0.470	0.554	0.613	0.548	<b>0.680</b>	0.469	0.562	0.676	0.640	0.677
<i>RV<sub>TS</sub></i>	<b>0.724</b>	0.660	0.681	<b>0.725</b>	0.650	<b>0.724</b>	<b>0.660</b>	0.468	0.528	<b>0.669</b>	0.637	<b>0.669</b>
<i>RV<sub>TSd</sub></i>	0.639	<b>0.723</b>	0.543	0.643	0.681	0.637	0.618	0.414	0.471	<b>0.647</b>	0.619	<b>0.646</b>
$\overline{RV}$	<b>0.724</b>	0.650	0.686	<b>0.725</b>	0.642	<b>0.725</b>	<b>0.661</b>	0.470	0.531	<b>0.670</b>	0.637	<b>0.670</b>
Stock: DIS												
<i>RV</i>	0.697	0.669	0.670	<b>0.721</b>	0.680	<b>0.722</b>	0.598	0.494	0.527	<b>0.671</b>	0.659	<b>0.672</b>
<i>RV<sub>AC1</sub></i>	0.434	<b>0.702</b>	0.387	0.650	0.688	<b>0.649</b>	0.303	0.508	<b>0.542</b>	0.376	0.478	0.376
<i>RV<sub>TS</sub></i>	0.699	0.673	0.663	<b>0.720</b>	0.680	<b>0.721</b>	0.558	0.467	0.523	<b>0.644</b>	<b>0.640</b>	<b>0.645</b>
<i>RV<sub>TSd</sub></i>	0.629	0.696	0.527	0.671	<b>0.725</b>	0.670	0.453	0.445	0.523	0.548	0.582	0.548
$\overline{RV}$	0.700	0.672	0.665	<b>0.720</b>	0.681	<b>0.721</b>	0.559	0.467	0.523	<b>0.645</b>	<b>0.641</b>	<b>0.646</b>
Stock: EK												
<i>RV</i>	<b>0.465</b>	0.445	<b>0.472</b>	0.445	0.408	0.447	0.286	0.329	0.335	0.350	0.292	0.350
<i>RV<sub>AC1</sub></i>	0.418	<b>0.433</b>	0.401	0.402	0.385	0.402	0.262	0.288	0.299	<b>0.311</b>	0.265	<b>0.312</b>
<i>RV<sub>TS</sub></i>	<b>0.455</b>	0.438	<b>0.458</b>	0.436	0.402	0.437	0.380	0.391	0.392	<b>0.421</b>	0.371	<b>0.421</b>
<i>RV<sub>TSd</sub></i>	<b>0.442</b>	<b>0.443</b>	<b>0.433</b>	0.424	0.400	0.425	0.369	0.367	0.350	<b>0.396</b>	0.358	<b>0.396</b>
$\overline{RV}$	<b>0.454</b>	0.436	<b>0.459</b>	0.435	0.401	0.437	0.380	0.391	0.393	<b>0.421</b>	0.372	<b>0.421</b>
Stock: GE												
<i>RV</i>	0.554	0.452	0.552	0.583	0.570	0.584	0.441	0.316	0.458	0.494	0.461	0.494
<i>RV<sub>AC1</sub></i>	0.498	0.491	0.422	0.524	<b>0.574</b>	0.519	0.372	0.271	0.368	0.416	0.389	0.416
<i>RV<sub>TS</sub></i>	0.552	0.449	0.539	0.578	0.572	0.578	0.414	0.308	0.417	0.475	0.444	0.475
<i>RV<sub>TSd</sub></i>	0.491	0.411	0.412	0.514	<b>0.553</b>	0.508	0.422	0.306	0.369	<b>0.470</b>	0.444	<b>0.470</b>
$\overline{RV}$	0.555	0.451	0.549	<b>0.582</b>	0.572	<b>0.582</b>	0.415	0.309	0.420	0.476	0.444	0.476
Stock: GM												
<i>RV</i>	0.743	0.646	0.735	0.731	0.721	0.732	0.633	0.670	0.697	0.651	0.617	0.652
<i>RV<sub>AC1</sub></i>	<b>0.715</b>	0.645	0.705	0.705	0.696	0.705	0.562	0.602	0.631	0.584	0.554	0.584
<i>RV<sub>TS</sub></i>	0.748	0.653	0.741	0.737	0.726	0.738	0.624	0.664	0.693	0.642	0.608	0.642
<i>RV<sub>TSd</sub></i>	0.726	0.629	0.714	0.714	0.706	0.714	0.602	0.648	0.658	0.623	0.599	0.623
$\overline{RV}$	0.749	0.654	0.742	0.738	0.727	0.739	0.624	0.664	0.694	0.642	0.608	0.642

Table continued on next page ...

One-years out-of-sample (Cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: HD												
<i>RV</i>	<b>0.791</b>	0.722	0.752	0.780	0.755	0.780	0.715	0.595	0.691	0.702	0.673	0.702
<i>RV<sub>AC1</sub></i>	<b>0.732</b>	0.716	0.649	0.724	<b>0.741</b>	0.721	0.695	0.609	0.688	0.682	0.659	0.683
<i>RV<sub>TS</sub></i>	<b>0.783</b>	0.718	0.738	0.773	0.752	0.772	0.698	0.577	0.671	0.690	0.663	0.690
<i>RV<sub>TSd</sub></i>	0.729	0.702	0.641	0.722	<b>0.742</b>	0.718	0.685	0.571	0.650	0.681	0.657	0.681
$\overline{RV}$	<b>0.787</b>	0.718	0.745	0.776	0.751	0.775	0.699	0.577	0.673	0.690	0.664	0.691
Stock: HON												
<i>RV</i>	0.121	0.062	0.054	0.086	0.118	0.087	0.030	<b>0.229</b>	-0.051	0.021	0.051	0.021
<i>RV<sub>AC1</sub></i>	0.065	0.024	-0.004	0.036	0.085	0.037	0.039	<b>0.238</b>	-0.134	-0.004	0.046	-0.005
<i>RV<sub>TS</sub></i>	0.133	0.074	0.065	0.100	0.134	0.101	0.042	<b>0.232</b>	-0.077	0.035	0.066	0.035
<i>RV<sub>TSd</sub></i>	0.132	0.081	0.064	0.100	0.138	0.101	-0.010	<b>0.207</b>	-0.176	-0.038	0.004	-0.038
$\overline{RV}$	0.133	0.073	0.065	0.099	0.133	0.100	0.042	<b>0.232</b>	-0.076	0.036	0.066	0.036
Stock: HPQ												
<i>RV</i>	0.564	0.511	0.588	0.579	0.553	0.582	0.530	0.354	<b>0.601</b>	0.550	0.504	0.551
<i>RV<sub>AC1</sub></i>	0.548	0.510	0.554	0.562	0.550	<b>0.564</b>	0.509	0.392	<b>0.557</b>	0.533	0.498	0.534
<i>RV<sub>TS</sub></i>	0.566	0.512	0.591	0.580	0.551	0.583	0.501	0.333	<b>0.586</b>	0.521	0.475	0.522
<i>RV<sub>TSd</sub></i>	0.545	0.509	0.550	0.559	0.550	0.561	0.498	0.329	<b>0.579</b>	0.522	0.474	0.523
$\overline{RV}$	0.567	0.511	0.593	0.581	0.550	0.583	0.501	0.333	<b>0.587</b>	0.521	0.475	0.522
Stock: IBM												
<i>RV</i>	0.579	<b>0.592</b>	0.581	0.582	0.579	<b>0.582</b>	0.500	0.518	0.485	<b>0.531</b>	<b>0.526</b>	<b>0.531</b>
<i>RV<sub>AC1</sub></i>	0.502	<b>0.569</b>	0.489	0.503	0.513	0.504	0.383	<b>0.413</b>	0.339	<b>0.406</b>	<b>0.407</b>	<b>0.406</b>
<i>RV<sub>TS</sub></i>	0.584	<b>0.598</b>	0.585	0.587	0.585	0.588	0.489	0.511	0.454	<b>0.524</b>	<b>0.524</b>	<b>0.524</b>
<i>RV<sub>TSd</sub></i>	0.578	<b>0.601</b>	0.575	0.581	0.583	0.582	0.449	<b>0.480</b>	0.393	<b>0.484</b>	<b>0.490</b>	<b>0.484</b>
$\overline{RV}$	0.583	<b>0.598</b>	0.584	0.587	0.585	0.587	0.490	0.511	0.454	<b>0.524</b>	<b>0.524</b>	<b>0.524</b>
Stock: INTC												
<i>RV</i>	<b>0.653</b>	0.626	0.625	0.630	0.632	0.641	0.572	0.574	0.423	0.580	0.582	0.580
<i>RV<sub>AC1</sub></i>	0.474	<b>0.564</b>	0.429	0.415	0.444	0.472	0.429	<b>0.521</b>	0.132	0.429	0.443	0.439
<i>RV<sub>TS</sub></i>	0.625	0.562	0.587	<b>0.631</b>	0.622	0.609	0.568	0.579	0.413	0.578	0.581	0.578
<i>RV<sub>TSd</sub></i>	0.618	0.581	0.571	0.619	0.618	0.604	0.557	<b>0.576</b>	0.384	0.567	0.571	0.568
$\overline{RV}$	<b>0.650</b>	0.628	0.624	0.619	0.625	0.638	0.568	<b>0.586</b>	0.402	0.578	0.582	0.580

Table continued on next page ...

One-years out-of-sample (Cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: IP												
<i>RV</i>	0.429	-0.074	<b>0.528</b>	0.464	0.276	0.469	0.496	0.505	0.526	<b>0.559</b>	0.492	<b>0.561</b>
<i>RV<sub>AC1</sub></i>	0.534	0.497	0.500	0.552	<b>0.569</b>	0.550	0.397	0.416	<b>0.479</b>	0.435	0.371	0.437
<i>RV<sub>TS</sub></i>	0.442	-0.067	<b>0.532</b>	0.472	0.287	0.477	0.440	0.460	<b>0.490</b>	<b>0.498</b>	0.444	<b>0.499</b>
<i>RV<sub>TSd</sub></i>	0.505	0.308	<b>0.528</b>	<b>0.537</b>	0.484	<b>0.538</b>	0.435	0.463	0.415	<b>0.490</b>	0.463	<b>0.491</b>
$\overline{RV}$	0.437	-0.089	<b>0.532</b>	0.467	0.274	0.472	0.439	0.458	<b>0.491</b>	<b>0.496</b>	0.441	<b>0.498</b>
Stock: JNJ												
<i>RV</i>	<b>0.797</b>	0.740	0.753	<b>0.790</b>	0.750	<b>0.791</b>	<b>0.770</b>	0.673	0.639	<b>0.766</b>	0.730	<b>0.766</b>
<i>RV<sub>AC1</sub></i>	0.707	<b>0.773</b>	0.619	0.720	<b>0.767</b>	0.717	<b>0.744</b>	0.672	0.623	<b>0.741</b>	0.725	<b>0.741</b>
<i>RV<sub>TS</sub></i>	<b>0.800</b>	0.753	0.753	<b>0.796</b>	0.763	<b>0.796</b>	<b>0.758</b>	0.651	0.627	<b>0.757</b>	0.717	<b>0.757</b>
<i>RV<sub>TSd</sub></i>	0.743	<b>0.783</b>	0.667	0.757	0.772	0.753	<b>0.723</b>	0.626	0.565	<b>0.722</b>	0.692	<b>0.722</b>
$\overline{RV}$	<b>0.801</b>	0.749	0.757	<b>0.796</b>	0.759	<b>0.796</b>	<b>0.759</b>	0.652	0.629	<b>0.757</b>	0.717	<b>0.757</b>
Stock: JPM												
<i>RV</i>	0.153	0.124	0.186	0.167	0.150	0.169	0.067	-0.015	<b>0.175</b>	0.098	0.061	0.098
<i>RV<sub>AC1</sub></i>	0.171	0.149	0.203	0.187	0.172	0.189	0.040	-0.012	<b>0.113</b>	0.066	0.042	0.067
<i>RV<sub>TS</sub></i>	0.153	0.125	0.185	0.166	0.150	0.168	0.073	-0.000	<b>0.175</b>	0.105	0.070	0.105
<i>RV<sub>TSd</sub></i>	0.157	0.132	0.189	0.171	0.155	0.173	0.067	0.003	<b>0.155</b>	0.097	0.068	0.098
$\overline{RV}$	0.153	0.125	0.185	0.166	0.150	0.168	0.073	-0.000	<b>0.175</b>	0.105	0.070	0.105
Stock: KO												
<i>RV</i>	0.697	0.512	0.652	0.681	0.555	0.684	0.675	0.658	0.541	<b>0.691</b>	<b>0.685</b>	<b>0.692</b>
<i>RV<sub>AC1</sub></i>	0.608	<b>0.677</b>	0.488	0.608	0.666	0.603	0.621	<b>0.680</b>	0.579	0.629	0.624	0.631
<i>RV<sub>TS</sub></i>	0.705	0.545	0.648	0.689	0.586	0.691	0.679	0.657	0.541	<b>0.695</b>	0.685	<b>0.695</b>
<i>RV<sub>TSd</sub></i>	0.669	0.704	0.545	0.670	<b>0.717</b>	0.665	0.658	0.660	0.500	<b>0.672</b>	<b>0.680</b>	<b>0.672</b>
$\overline{RV}$	0.702	0.527	0.651	0.685	0.569	0.687	0.678	0.657	0.542	<b>0.694</b>	0.684	<b>0.695</b>
Stock: MCD												
<i>RV</i>	0.477	0.341	0.530	0.531	0.384	0.535	<b>0.431</b>	0.208	-0.093	0.406	0.388	0.406
<i>RV<sub>AC1</sub></i>	0.259	0.398	-0.091	0.320	<b>0.430</b>	0.315	0.405	0.213	-0.068	0.391	0.373	0.391
<i>RV<sub>TS</sub></i>	0.471	0.349	0.513	0.523	0.394	0.526	<b>0.454</b>	0.225	-0.046	0.431	0.407	0.431
<i>RV<sub>TSd</sub></i>	0.381	0.427	0.355	0.441	<b>0.490</b>	0.438	<b>0.372</b>	0.134	-0.115	0.356	0.343	0.356
$\overline{RV}$	0.471	0.341	0.518	0.523	0.382	0.527	<b>0.456</b>	0.226	-0.044	0.433	0.409	0.433

Table continued on next page ...

One-years out-of-sample (Cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: MMM												
<i>RV</i>	<b>0.620</b>	0.606	<b>0.622</b>	<b>0.625</b>	<b>0.625</b>	<b>0.625</b>	<b>0.484</b>	0.425	0.412	0.469	0.453	0.469
<i>RV<sub>AC1</sub></i>	0.547	<b>0.589</b>	0.536	0.548	0.555	0.548	<b>0.306</b>	0.258	0.200	0.279	0.276	0.279
<i>RV<sub>TS</sub></i>	<b>0.627</b>	0.616	<b>0.628</b>	<b>0.632</b>	<b>0.632</b>	<b>0.632</b>	<b>0.496</b>	0.436	0.446	<b>0.492</b>	0.472	<b>0.492</b>
<i>RV<sub>TSd</sub></i>	<b>0.630</b>	0.625	<b>0.629</b>	<b>0.635</b>	<b>0.636</b>	<b>0.634</b>	<b>0.416</b>	0.361	0.332	0.403	0.390	0.403
$\overline{RV}$	<b>0.627</b>	0.616	<b>0.628</b>	<b>0.632</b>	<b>0.632</b>	<b>0.632</b>	<b>0.496</b>	0.437	0.447	<b>0.493</b>	0.473	<b>0.493</b>
Stock: MO												
<i>RV</i>	0.301	-0.101	-0.347	<b>0.306</b>	0.064	<b>0.312</b>	<b>0.238</b>	0.196	-0.037	0.221	0.203	0.223
<i>RV<sub>AC1</sub></i>	0.092	0.293	0.114	0.019	0.305	0.036	0.180	0.172	-0.026	0.165	0.157	0.166
<i>RV<sub>TS</sub></i>	-0.108	-0.339	-0.308	<b>0.308</b>	0.062	<b>0.315</b>	<b>0.282</b>	0.238	0.030	0.266	0.251	0.268
<i>RV<sub>TSd</sub></i>	-0.039	0.281	0.025	0.325	0.317	0.324	0.266	0.245	0.046	0.251	0.245	0.252
$\overline{RV}$	0.297	-0.147	-0.376	<b>0.302</b>	0.034	<b>0.309</b>	<b>0.281</b>	0.235	0.026	0.265	0.249	0.267
Stock: MRK												
<i>RV</i>	0.345	0.378	0.318	0.350	0.347	0.350	0.305	0.355	<b>0.600</b>	0.361	0.351	0.361
<i>RV<sub>AC1</sub></i>	0.356	0.404	<b>0.572</b>	0.375	0.374	0.374	0.280	0.360	0.290	0.313	0.316	0.313
<i>RV<sub>TS</sub></i>	0.351	0.384	0.321	0.357	0.355	0.355	0.298	0.347	0.375	0.344	0.335	0.343
<i>RV<sub>TSd</sub></i>	0.298	0.358	0.249	0.308	0.342	0.304	0.289	0.378	<b>0.623</b>	0.356	0.339	0.356
$\overline{RV}$	0.354	0.386	0.328	0.360	0.355	0.359	0.298	0.348	0.366	0.344	0.336	0.344
Stock: MSFT												
<i>RV</i>	<b>0.594</b>	0.555	0.581	0.576	0.568	0.577	0.488	0.493	0.459	0.523	0.525	0.526
<i>RV<sub>AC1</sub></i>	0.511	<b>0.527</b>	<b>0.525</b>	0.465	0.468	0.510	0.344	<b>0.487</b>	0.186	0.369	0.384	0.387
<i>RV<sub>TS</sub></i>	<b>0.580</b>	0.526	0.559	0.568	0.557	0.557	0.493	0.497	0.468	<b>0.534</b>	<b>0.536</b>	<b>0.537</b>
<i>RV<sub>TSd</sub></i>	<b>0.587</b>	0.539	0.571	0.570	0.562	0.567	0.486	0.497	0.455	<b>0.528</b>	<b>0.530</b>	<b>0.531</b>
$\overline{RV}$	<b>0.586</b>	0.564	<b>0.581</b>	0.560	0.558	<b>0.576</b>	0.489	0.500	0.457	<b>0.531</b>	<b>0.534</b>	<b>0.535</b>
Stock: PG												
<i>RV</i>	0.595	0.109	<b>0.659</b>	0.601	0.366	0.608	<b>0.551</b>	0.470	0.510	0.538	0.459	0.539
<i>RV<sub>AC1</sub></i>	0.575	0.596	0.510	0.596	<b>0.610</b>	0.594	<b>0.485</b>	0.417	0.433	0.471	0.404	0.472
<i>RV<sub>TS</sub></i>	0.617	0.170	<b>0.671</b>	0.626	0.413	0.632	<b>0.547</b>	0.462	0.529	0.533	0.448	0.535
<i>RV<sub>TSd</sub></i>	0.653	0.509	0.619	<b>0.673</b>	0.622	<b>0.672</b>	<b>0.556</b>	0.478	0.460	0.533	0.468	0.534
$\overline{RV}$	0.612	0.145	<b>0.672</b>	0.620	0.396	0.626	<b>0.545</b>	0.459	0.530	0.531	0.446	0.533

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One-years out-of-sample (Cont.)

	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$	<i>RV</i>	<i>RV<sub>AC1</sub></i>	<i>RV<sub>NW</sub></i>	<i>RV<sub>TS</sub></i>	<i>RV<sub>TSd</sub></i>	$\overline{RV}$
	One-minute returns						Five-minute returns					
Stock: SBC												
<i>RV</i>	0.702	0.599	0.591	0.705	<b>0.720</b>	0.702	0.554	0.407	0.491	<b>0.597</b>	0.525	<b>0.597</b>
<i>RV<sub>AC1</sub></i>	0.565	0.613	0.329	0.577	<b>0.668</b>	0.566	0.544	0.480	0.505	<b>0.563</b>	<b>0.567</b>	<b>0.562</b>
<i>RV<sub>TS</sub></i>	0.694	0.588	0.574	0.697	<b>0.716</b>	0.694	0.567	0.417	0.474	<b>0.607</b>	0.533	<b>0.607</b>
<i>RV<sub>TSd</sub></i>	0.521	0.512	0.292	0.537	<b>0.651</b>	0.526	0.561	0.454	0.456	<b>0.592</b>	0.562	<b>0.592</b>
$\overline{RV}$	0.699	0.591	0.587	0.702	<b>0.717</b>	0.699	0.567	0.418	0.477	<b>0.607</b>	0.534	<b>0.607</b>
Stock: T												
<i>RV</i>	0.486	0.290	<b>0.523</b>	0.485	0.213	0.502	0.418	0.298	0.282	0.406	0.393	0.406
<i>RV<sub>AC1</sub></i>	0.323	0.417	0.216	0.348	<b>0.436</b>	0.334	<b>0.356</b>	0.295	-0.028	<b>0.357</b>	<b>0.362</b>	<b>0.356</b>
<i>RV<sub>TS</sub></i>	0.501	0.362	0.499	<b>0.507</b>	0.308	<b>0.516</b>	0.405	0.274	0.271	0.397	0.384	0.397
<i>RV<sub>TSd</sub></i>	0.361	0.450	0.244	0.389	<b>0.480</b>	0.374	<b>0.362</b>	0.253	0.205	0.358	0.353	0.358
$\overline{RV}$	0.495	0.318	<b>0.518</b>	0.495	0.245	<b>0.510</b>	0.406	0.273	0.278	0.397	0.384	0.398
Stock: UTX												
<i>RV</i>	<b>0.488</b>	0.451	<b>0.481</b>	<b>0.484</b>	<b>0.483</b>	<b>0.484</b>	<b>0.442</b>	0.358	0.385	0.429	0.423	0.429
<i>RV<sub>AC1</sub></i>	<b>0.454</b>	<b>0.449</b>	0.442	<b>0.451</b>	<b>0.456</b>	<b>0.451</b>	<b>0.327</b>	0.279	0.221	0.308	<b>0.325</b>	0.308
<i>RV<sub>TS</sub></i>	<b>0.493</b>	0.452	<b>0.488</b>	<b>0.490</b>	<b>0.487</b>	<b>0.489</b>	<b>0.454</b>	0.369	0.402	0.442	0.433	0.442
<i>RV<sub>TSd</sub></i>	<b>0.489</b>	0.454	<b>0.480</b>	<b>0.485</b>	<b>0.486</b>	<b>0.485</b>	<b>0.401</b>	0.331	0.310	0.382	<b>0.391</b>	0.382
$\overline{RV}$	<b>0.494</b>	0.452	<b>0.488</b>	<b>0.490</b>	<b>0.487</b>	<b>0.490</b>	<b>0.454</b>	0.369	0.403	0.442	0.433	0.442
Stock: WMT												
<i>RV</i>	<b>0.579</b>	<b>0.578</b>	0.548	<b>0.578</b>	0.532	<b>0.578</b>	0.428	0.407	0.351	0.424	0.421	0.424
<i>RV<sub>AC1</sub></i>	0.481	<b>0.534</b>	0.408	0.485	0.487	0.480	0.306	<b>0.337</b>	0.271	0.288	0.297	0.289
<i>RV<sub>TS</sub></i>	<b>0.582</b>	<b>0.585</b>	0.546	<b>0.581</b>	0.543	<b>0.580</b>	0.468	0.451	0.390	0.467	0.465	0.467
<i>RV<sub>TSd</sub></i>	0.540	0.588	0.451	0.546	0.577	0.540	0.402	0.402	0.325	0.400	0.404	0.400
$\overline{RV}$	<b>0.583</b>	<b>0.581</b>	0.553	<b>0.582</b>	0.536	<b>0.582</b>	0.468	0.452	0.392	0.467	0.465	0.467
Stock: XOM												
<i>RV</i>	<b>0.781</b>	0.644	0.768	<b>0.772</b>	0.761	<b>0.771</b>	0.642	0.563	<b>0.723</b>	<b>0.729</b>	0.681	<b>0.730</b>
<i>RV<sub>AC1</sub></i>	0.712	<b>0.746</b>	<b>0.749</b>	0.718	0.683	0.720	0.655	0.728	0.620	0.787	<b>0.808</b>	0.786
<i>RV<sub>TS</sub></i>	<b>0.793</b>	0.661	0.777	<b>0.786</b>	0.778	<b>0.785</b>	0.710	0.582	0.747	<b>0.774</b>	0.714	<b>0.774</b>
<i>RV<sub>TSd</sub></i>	<b>0.764</b>	0.639	0.735	<b>0.757</b>	0.754	<b>0.755</b>	0.682	0.650	0.682	<b>0.780</b>	0.763	<b>0.780</b>
$\overline{RV}$	<b>0.795</b>	0.664	0.780	<b>0.787</b>	0.779	<b>0.787</b>	0.710	0.581	0.747	<b>0.774</b>	0.714	<b>0.774</b>