# Market View Report International Finance

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## Contents

Executive Summary	<b>2</b>
Market View	2
AUD/USD	2
	3
EUR/USD	5
GBP/USD	6
Target Portfolio	7
Proposed Target Strategies	8
Appendix	9
AUD/USD Quantitative Analysis	9
USD/JPY Quantitative Analysis	12
EUR/USD Quantitative Analysis	
GBP/USD Quantitative Analysis	21
References	24

### **Executive Summary**

The report comprehensively analyses four key currency pairs: AUD/USD, USD/JPY, EUR/USD, and GBP/USD. We utilise the Fundamental approach for quantitative forecasting; qualitative data, such as inflation trends and public sentiment, further substantiate the report. The analysis indicates that the Australian Dollar and Japanese Yen are less likely to appreciate against the U.S. Dollar. In contrast, the Euro and British pound are poised for growth. Accordingly, the report advises an investment strategy favouring the Euro and British Pound while recommending the liquidation of the Australian Dollar and Japanese Yen assets.

### Market View

### AUD/USD

Our analysis of various forecasting models—Random Walk (Appendix 1), Fundamental (Appendix 2), and Technical (Appendix 3)—reveals that the Fundamental approach is the most reliable for predicting trading rates, with the lowest standard deviation of approximately 0.33. Our latest forecast suggests the Australian dollar will not appreciate against the US dollar, predicting a max charge of \$0.769 by September 2023.

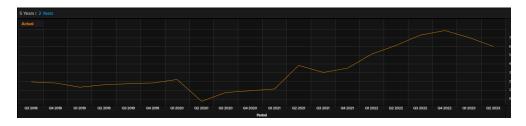


Figure 1: Australian Historical Inflation Rate

We also assessed inflation trends. Australia's inflation peaked at 7.8% in Q4 of FY2022 but still falls within the Reserve Bank of Australia's 2-3% target range.

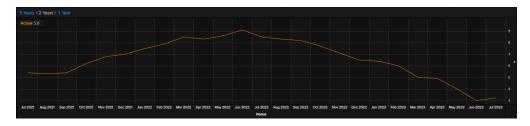


Figure 2: American Historical Inflation Rate

Conversely, the US experienced a higher peak inflation of around 9% in Q4 of FY2021 but recovered more quickly, dropping to 3% in Q1 of FY2023. Australia's rate remains high at 6%, and forecasts indicate a slower recovery than the US.

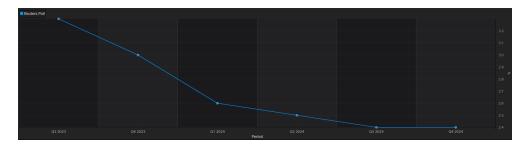


Figure 3: American Forecasted Inflation Rate

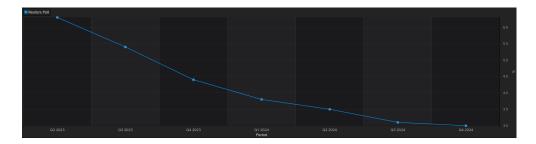


Figure 4: Australian Forecasted Inflation Rate

High inflation tends to devalue a currency, reducing its purchasing power. Based on the higher and more prolonged inflation rates in Australia compared to the US, we expect the USD to continue appreciating against the AUD in the long run.

#### USD/JPY

After thoroughly analysing forecasting models—Random Walk (Appendix 4), Fundamental (Appendix 5), and Technical (Appendix 6)—we found the Fundamental approach to be the most reliable for predicting trading rates, with the lowest standard deviation of 2.44. Our latest projection suggests the Japanese Yen is unlikely to appreciate against the US dollar in the short term.

Recent developments highlight Yen's nine-month low against the dollar, prompting Japan's Finance Minister to monitor market activities closely. Despite this, Japan's 3.4% inflation rate closely mirrors the US rate, and long-term forecasts show a decline to 1.8% by Q3 2024, potentially bolstering the Yen's future strength.

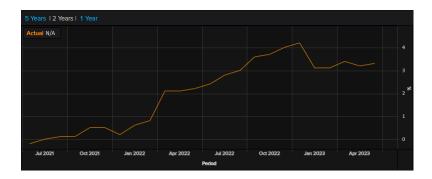


Figure 5: Japan Historical Inflation Rate

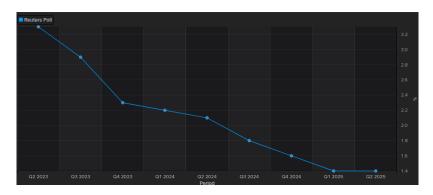


Figure 6: Japan Forecasted Inflation Rate

Japan's GDP growth aligns with OECD expectations, suggesting a possible economic rebound.

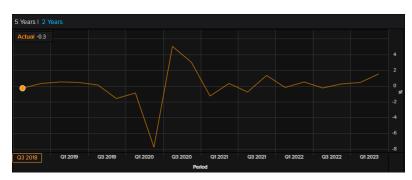


Figure 7: Japan GDP

Given contrasting public sentiments and the US's looming inflation and a potential recession, the Yen shows signs of future appreciation. However, for the

next month, the USD is expected to outperform the JPY.

#### EUR/USD

Our exhaustive evaluation of various forecasting models, such as Random Walk (Appendix 7), Fundamental (Appendix 8), and Technical (Appendix 9), indicates that the Fundamental approach is the most robust for predicting trading session rates, with the lowest standard deviation of 1.952. Our latest forecast suggests that the Euro will likely appreciate against the US dollar soon.

A recent CNBC article corroborates this, reporting that the European Central Bank warns of sustained higher inflation in the Eurozone, which could indicate a looming recession. Current Eurozone GDP growth lags behind the U.S., at 2.3% compared to 2.6%, implying weaker demand for Eurozone products.

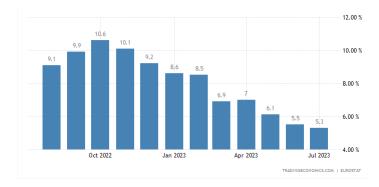


Figure 8: Euro zone Inflation Rate

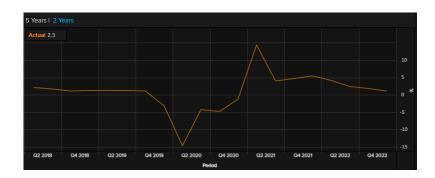


Figure 9: Euro zone GDP

However, the combination of persistently high inflation rates and positive public sentiment towards the Eurozone's swifter economic recovery is applying upward pressure on the value of the EUR relative to the USD. Given these factors, we concur with the article's forecast, anticipating the Euro to appreciate against the US dollar during our trading session.

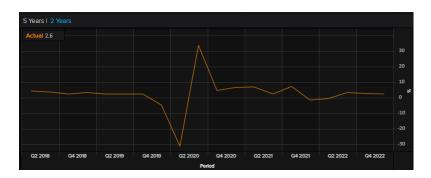


Figure 10: United States of America GDP

### GBP/USD

Our in-depth analysis of forecasting models—Random Walk (Appendix 10), Fundamental (Appendix 11), and Technical (Appendix 12)—indicates that the Fundamental approach is the most reliable for predicting trading session rates. It reports the lowest standard deviation of 2.396, contrasting with the other models' higher figures. Our latest forecast predicts the British Pound will appreciate against the US dollar, expecting a maximum charge of \$1.25 by September 2023. A recent article by Christopher Lewis on August 18, 2023, supports this, noting the Pound's consecutive weeks of outperforming the dollar. Despite currency market volatility, the Pound exhibits a stable upward trend, buoyed by positive public sentiment and indicators like a 5% rise in UK business investment this quarter. This bullish trend makes it an opportune moment for traders to leverage the Pound's strength to buy more USD.

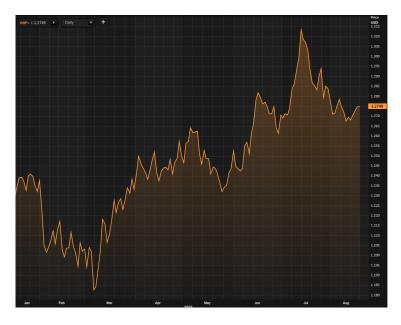


Figure 11: GBP/USD Currency rate

Given the empirical and qualitative evidence, we forecast continued appreciation of the GBP against the USD in our investment timeframe.

## Target Portfolio

Based on our analysis, the U.S. Dollar is projected to gain strength against both the Australian Dollar (AUD) and the Japanese Yen (JPY). Given this forecast, we recommend structuring our target investment portfolio to favour the Euro (EUR) and the British Pound (GBP). Specifically, the British Pound is expected to appreciate notably against the U.S. Dollar, offering a significant opportunity for profit maximization.

Investing in the Euro and British Pound is strategically advantageous because these currencies currently exhibit higher purchasing power in the foreign exchange market. By converting our assets from USD to EUR and GBP, we stand to benefit from their projected strength.

We advise against acquiring AUD and JPY, given our anticipation that the U.S. Dollar will appreciate against these currencies. Consequently, it would be prudent to liquidate existing holdings in AUD and JPY to capitalize on the predicted currency movements.

### **Proposed Target Strategies**

To achieve our target portfolio, we plan to liquidate our holdings in the Australian Dollar (AUD) and the Japanese Yen (JPY), converting these assets into U.S. Dollars (USD). These conversions will be executed through substantial transactions, each amounting to USD 10,000,000. While conducting trades of this magnitude carries a high level of risk and volatility, the robustness of our analysis gives us confidence that, when executed with precision, these moves will optimize our profit potential.

Upon securing a large pool of U.S. Dollars, we will invest in the Euro (EUR) and the British Pound (GBP). Transactions will also be capped at USD 10,000,000 but with a heavier allocation toward GBP. Our analysis indicates that the British Pound offers a more significant profit margin than the Euro. This investment strategy will continue either until the trading session concludes or until we have exhausted our supply of U.S. Dollars for trading.

# Appendix

# AUD/USD Quantitative Analysis Appendix 1- Random Walk

Forecet	Random ' Error (%)	
Forecast 0.6411	-4.59821	Error squared 21.14357462
0.672	0.810081	0.65623124
0.6666	2.553846	6.522130178
0.0000	-1.61949	2.622762356
0.6607	-1.01949	1.361401993
0.6685	-0.63912	0.408474496
0.6728	-4.62149	21.35818232
0.7054	3.537355	12.5128808
0.6813	0.397878	0.15830689
0.6786	6.080975	36.97826251
0.6397	-0.0781	0.006099703
0.6402	-6.38982	40.82983891
0.6839	-2.09019	4.368907911
0.6985	1.217215	1.481612104
0.6901	-3.792	14.37924708
0.7173	1.557412	2.425531716
0.7063	-5.57487	31.07913438
0.748	3.001928	9.011570778
0.7262	2.802945	7.856497911
0.7064	-2.69972	7.288512473
	1.923347	3.699263315
0.726 0.7123	-5.29185	28.003671
0.7123	4.08248	16.66664241
0.7321	-1.21668	1.480305499
0.7226	-0.39488	0.155930352
0.7344	-2.05388	4.218427306
0.7498	-3.05146	9.311414728
0.7734	0.233281	0.054420255
0.7716	1.579779	2.495701155
0.7596	-1.41467	2.00127933
0.7705	0.824392	0.679621379
0.7642	-0.67585	0.456774997
0.7694	4.751532	22.57705306
0.7345	4.540279	20.61413307
0.7026	-1.88521	3.554022636
0.7161	-2.90169	8.419833381
0.7375	3.262391	10.64319821
0.7142	3.477253	12.09128822
0.6902	3.540354	12.5341067
0.6666	2.396313	5.742317739
0.651	6.112469	37.36228263
0.6135	-5.74589	33.01525541
0.6509	-2.72007	7.398790261
0.6691	-4.70019	22.09174053
0.7021	3.799527	14.43640472
0.6764	-1.87146	3.502376769
0.6893	2.133649	4.552459888
0.6749	0.192993	0.037246249
0.6736	-1.57802	2.490161471
0.6844	-2.50712	6.285663266
0.702	1.181897	1.396880046
0.6938	-1.56073	2.435867043
0.7048	-0.64844	0.420468335
0.7094	-0.04044	0.420408333
0.7094	-2.44774	5.991454481
0.7004	3.163569	10.00817072
0.7272		
0.7272	-3.63636	
0.7049	-3.63636 3.421462	13.2231405 11.70640152
0.7049 0.7315	3.421462	11.70640152
0.7049		

## Appendix 2- Fundamental Approach

Spot Price   Rate Change   AU Interest   Usinterest   Change Forecast   Rate Forecast   Fror (%)   Error Squared   0.641					Fundamental A	nnroach			
0.6411	Spot Price	Rate Change	AU Interest				Rate Forecast	Error (%)	Error Squared
0.672 (4.819840998)         1.5         1.95 (0.44)         0.187119757         0.62364195 (0.18712)         20.88884517           0.656 (-) 2.49024902         1.5         2.2         -0.69 (0.21374398)         0.686864 (0.31299)         0.097983774           0.6667 (1.646153846)         1.5         2.2         -0.69 (0.31291332)         0.686864 (0.31299)         0.097983774           0.6728 (0.643231114)         1.5         2.4         -0.7         0.399841149 (0.57190313)         0.3998141 (0.18987944)           0.6734 (0.44522117)         1.5         2.44         -0.9         0.399841149 (0.5799013)         0.3998141 (0.18987948)           0.6831 (0.3468081)         1.5         2.42         -0.91 (0.403976854)         0.078249651 (0.4037181)         0.18981793           0.6837 (0.5786)         0.383963019         1.5         2.38         -0.98 (0.39570744)         0.681285279 (0.395705)         0.15812798           0.6838 (0.6422173)         1.1         2.0         -0.88 (0.39386049)         0.93716973 (0.392740)         0.93716973 (0.392740)         0.937169734 (0.392740)         0.93716973 (0.392740)         0.93716973 (0.392740)         0.93716973 (0.392740)         0.93716973 (0.392740)         0.93716973 (0.392740)         0.93716973 (0.392740)         0.93716973 (0.392740)         0.93716973 (0.392740)         0.93716973 (0.392740)         0									
		4.819840898			-0.41	0.197191575	0.642364195	0.197192	0.038884517
0.6697   1.646153846	0.6666	-0.80357143	1.5	2.19	-0.45	0.213734398	0.673436295	0.213734	0.045682393
0.6628 1.180566066 1.5 2.4 -0.79 0.34967076976 0.65296531 0.346077 0.119769273   0.7054 3.445422117 1.5 2.41 -0.9 0.399841149 0.675490131 0.399841 0.159872944   0.6613 -3.41650128 1.5 2.42 -0.91 0.403976854 0.705249653 0.403977   0.6736 -0.39630119 1.5 2.39 -0.92 0.40811250 0.684809471 0.4081133 0.16555561   0.6397 5.73239022 1.5 2.38 -0.98 0.395705443 0.681285257 0.395705 0.165652798   0.6402 0.076161638 1.25 2.4 -0.88 0.391507973 0.642204872 0.39157 0.15382527   0.6620 0.076161638 1.25 2.4 -0.88 0.391507973 0.642204872 0.39157 0.1538252   0.6839 6.823991878 1 2.13 -1.15 0.503233788 0.643421703 0.503234 0.253244245   0.6985 2.134815031 1 2.04 -1.13 0.44962277 0.701697321 0.457741 0.20952648   0.7173 3.94145776 0.75 1.55 -0.8 0.358484039 0.718971406 0.355444 0.12851044   0.7063 -1.5352851 0.75 1.55 -0.8 0.358484039 0.7089113 0.5358444 0.128510445   0.7064 -2.72562162 0.75 0.65 -0.83 0.358484039 0.70881373 0.358444 0.12851045   0.7062 -1.26461937 0.25 0.05 0.1 -0.01372409 0.70633015 0.358444 0.12851045   0.7063 -1.253225075 0.25 0.05 0.1 -0.01372409 0.706303015 0.358444 0.12851045   0.7064 -2.72562162 0.75 0.65 0.2 -0.055086465 0.72560072 0.05509 0.003034519   0.7762 7.72652163 0.75 0.65 0.2 -0.055086465 0.72560072 0.05509 0.003034519   0.7726 7.72652163 0.75 0.05 0.1 -0.01372409 0.706303015 0.033444 0.01485612   0.7726 7.72652164 0.75 0.05 0.1 -0.01372409 0.706303015 0.033444 0.0034564   0.7726 7.72652165 0.75 0.05 0.1 -0.01372409 0.706303015 0.033444 0.0034564   0.7726 7.72652165 0.75 0.05 0.1 -0.01372409 0.706303015 0.033444 0.0034564   0.7726 7.72652163 0.75 0.05 0.0 0.01 0.01372409 0.00303419   0.7726 7.72652163 0.75 0.05 0.0 0.01 0.01372409 0.00303419   0.7726 7.72652163 0.05 0.05 0.0 0.00334519   0.7726 7.72652163 0.05 0.05 0.0 0.00334519   0.7727 7.72652165 0.05 0.0 0.00334519   0.7728 7.72652165 0.05 0.0 0.00334519   0.7728 7.72652165 0.05 0.0 0.00334519   0.7728 7.72652165 0.05 0.0 0.00334519   0.7728 7.72652165 0.003450 0.0034519   0.7728 7.7265216 0.003450 0.0034519   0.7729 7.726521649 0.003450 0.00	0.65	-2.49024902	1.5	2.2	-0.69	0.312991332	0.6686864	0.312991	0.097963574
0.6728   0.643231114   1.5   2.4	0.6607	1.646153846	1.5	2.27	-0.7	0.317127037	0.652061326	0.317127	0.100569558
0.7054   4.94422117	0.6685	1.180566066	1.5	2.4	-0.77	0.346076976	0.662986531	0.346077	0.119769273
0.6813   -3.41550128	0.6728	0.643231114	1.5	2.4	-0.9	0.399841149	0.671172938	0.399841	0.159872944
0.6786   -0.39600119	0.7054	4.845422117	1.5	2.41	-0.9	0.399841149	0.675490131	0.399841	0.159872944
0.6402   0.078161638	0.6813	-3.41650128	1.5	2.42	-0.91	0.403976854	0.708249653	0.403977	0.163197299
0.6820 0.078161638 1.25	0.6786	-0.39630119	1.5	2.39	-0.92	0.40811256	0.684080471	0.408113	0.166555861
0.6893   0.825991878	0.6397	-5.73239022	1.5	2.38	-0.89	0.395705443	0.681285257	0.395705	0.156582798
0.6985   2.134815031	0.6402	0.078161638	1.25	2.4	-0.88	0.391569737	0.642204872	0.39157	0.153326859
0.6901   1.20257695	0.6839	6.825991878	1	2.13	-1.15	0.503233788	0.643421703	0.503234	0.253244245
0.7173	0.6985	2.134815031	1	2.04	-1.13	0.494962377	0.687285048	0.494962	0.244987754
0.7062         1.53352851         0.75         1.55         -0.8         0.358484093         0.718971406         0.3584440         1.218510845           0.7462         2-2.9144385         0.75         1.58         -0.8         0.358484093         0.750681616         0.358484         0.128510845           0.7064         2.272652162         0.75         0.65         -0.83         0.37089121         0.738831937         0.05         0.05         0.1         -0.013729409         0.706393015         -0.01373         0.000018497           0.7123         1.88705234         0.25         0.05         0.2         -0.055086465         0.725600072         -0.05509         0.003034519           0.7226         3.23235075         0.25         0.09         0.17         -0.042679348         0.71977090         -0.0368         0.003034519           0.7341         0.39844566         0.25         0.09         0.15         -0.034407937         0.73148306         0.09441         0.001485612           0.7734         3.147506002         0.25         0.09         0.16         -0.038543642         0.74911         0.03854         0.001485612           0.7716         0.223273856         0.1         0.09         0.16         -0.038543642         0.7	0.6901	-1.20257695	1	1.83	-1.04	0.457741027	0.701697321	0.457741	0.209526848
0.748         5.904006796         0.75         1.55         -0.8         0.358484093         0.7088131973         0.358484         0.128510845           0.7064         2.72525162         0.75         0.65         -0.83         0.37590121         0.72883412         0.3759058           0.726         2.774631937         0.25         0.05         0.1         -0.013729409         0.70604323412         0.055006405         0.7256000072         -0.055006405         0.725600072         -0.055006405         0.7256000072         -0.05500         0.003043419         0.7256         0.057971         -0.055006405         0.717907619         -0.0550         0.003043419         0.7252         0.0579         0.003043419         0.0170         -0.042679348         0.751779009         -0.04268         0.00170719         -0.0550         0.003043419         0.0170         -0.042679348         0.751779009         -0.04268         0.001821527         0.7344         0.038543042         0.77377909         -0.042683         0.018416         0.038543642         0.77314416935         0.03854         0.001821527         0.038543642         0.77311416935         0.03854         0.001485612         0.77344         0.0457506002         0.25         0.09         0.16         -0.038543642         0.77311903         0.03854         0.001	0.7173	3.94145776	0.75	1.55	-0.83	0.37089121	0.69265952	0.370891	0.137560289
0.7262	0.7063	-1.53352851	0.75	1.55	-0.8	0.358484093	0.719871406	0.358484	0.128510845
0.7064   -2.72652162   0.75   0.65   -0.83   0.37089121   0.728893412   0.370891   0.137560289   0.726   2.774631937   0.25   0.05   0.05   0.1   -0.013729409   0.706303015   -0.01373   0.0000188497   0.7213   1.88705234   0.25   0.08   0.2   -0.055086465   0.711907619   -0.05509   0.003034519   0.7226   -3.92285075   0.25   0.09   0.17   -0.042679348   0.751779009   -0.04268   0.001821527   0.7315   1.231663438   0.25   0.1   0.16   -0.038843642   0.732231444   0.038845   0.01485612   0.7344   0.39644566   0.25   0.09   0.15   -0.034407937   0.731248306   -0.03441   0.001183906   0.7349   2.096949891   0.25   0.09   0.16   -0.0388543642   0.743116935   -0.03854   0.01485612   0.7746   -0.23273856   0.1   0.09   0.16   -0.0388543642   0.745111   0.03854   0.01485612   0.7756   -1.55520995   0.1   0.09   0.16   -0.0388543642   0.773101903   -0.03854   0.001485612   0.7795   -1.55520995   0.1   0.09   0.10   0.023491941   0.771781264   0.023492   0.000551871   0.7705   -1.45600208   0.1   0.09   0.01   0.023491941   0.771781264   0.023492   0.000551871   0.7642   0.81765088   0.1   0.07   0.02   0.019356236   0.77064914   0.019355   0.00031665   0.76464   0.68450144   0.1   0.07   0.03   0.01522053   0.769517107   0.015211   0.000231665   0.7026   -4.34309054   0.1   0.06   0.03   0.01522053   0.769517107   0.015211   0.000231665   0.7026   -4.34309054   0.1   0.06   0.03   0.01522053   0.769517107   0.015211   0.00031665   0.7026   -4.34309054   0.1   0.08   0.04   0.011084825   0.734581418   0.011085   0.000374664   0.05   0.05   0.000374664   0.05   0.000374664   0.0003   0.000374664	0.748	5.904006796	0.75	1.55	-0.8	0.358484093	0.708831973	0.358484	0.128510845
0.726         2.774631937         0.25         0.05         0.1         -0.013729409         0.706303015         -0.01373         0.000188497           0.7123         -1.88705234         0.25         0.05         0.2         -0.055086465         0.7151075059         0.003034519           0.7226         -3.92235075         0.25         0.09         0.17         -0.042679348         0.75177909         -0.04268         0.001821527           0.7341         0.39644566         0.25         0.09         0.15         -0.034407937         0.731243306         -0.03854         1.00183906           0.7498         2.096949891         0.25         0.09         0.16         -0.038543642         0.734116935         -0.03854         0.01185012           0.7774         3.147506002         0.25         0.09         0.16         -0.038543642         0.734116935         -0.03854         0.01485612           0.7796         1.55520995         0.1         0.09         0.16         -0.038543642         0.734116935         -0.03854         0.01485612           0.7795         1.434965771         0.1         0.08         0.01         0.023491941         0.7737191264         0.023492         0.000551871           0.7642         -0.81765088	0.7262	-2.9144385	0.75	1.58	-0.8	0.358484093	0.750681461	0.358484	0.128510845
0.7123         -1.88705234         0.25         0.05         0.2         -0.055086465         0.725600072         -0.05509         0.03034519           0.7221         5.887533434         0.25         0.09         0.17         -0.046797348         0.7177909         -0.04268         0.0018275           0.7315         1.231663438         0.25         0.1         0.16         -0.038543642         0.722321484         -0.03854         0.001485612           0.7494         0.39644566         0.25         0.09         0.16         -0.038543642         0.724116995         -0.03854         0.01485612           0.7734         3.147506002         0.25         0.09         0.16         -0.038543642         0.749511         -0.03854         0.01485612           0.7716         -0.23273856         0.1         0.09         0.16         -0.038543642         0.7317181264         0.0343492         0.001485612           0.7750         -1.55520995         0.1         0.09         0.1         0.03491941         0.7571781264         0.23492         0.000551871           0.7604         -0.81765088         0.1         0.07         0.02         0.019352033         0.764316315         0.1534492         0.000374664           0.7616	0.7064	-2.72652162	0.75	0.65	-0.83	0.37089121	0.728893412	0.370891	0.137560289
0.7521         5.887533343         0.25         0.08         0.2         -0.055086465         0.711907619         -0.05509         0.03034519           0.7226         -3.92235075         0.25         0.09         0.17         -0.042679348         0.751779009         -0.0468         0.001821527           0.7314         0.39644566         0.25         0.09         0.15         -0.034407937         0.731248306         -0.03441         0.001485612           0.7344         0.39644566         0.25         0.09         0.16         -0.038543642         0.734116935         -0.03854         0.001485612           0.7734         3.147506002         0.25         0.09         0.16         -0.038543642         0.731161935         -0.03854         0.001485612           0.7756         -0.523273856         0.1         0.09         0.01         0.023491941         0.77511266         0.02349194         0.77511266         0.02349194         0.77511266         0.023492         0.000551871           0.7705         1.434965771         0.1         0.08         0.01         0.023491941         0.7759445         0.02349249         0.000551871           0.7642         0.81765088         0.1         0.07         0.03         0.01522053         0.769317107	0.726	2.774631937	0.25	0.05	0.1	-0.013729409	0.706303015	-0.01373	0.000188497
0.7226         -3.92235075         0.25         0.09         0.17         -0.042679348         0.751779009         -0.04268         0.001825127           0.7314         0.33644368         0.25         0.1         0.16         -0.038543642         0.72321484         -0.03841         0.001183906           0.7498         2.096949891         0.25         0.09         0.16         -0.038543642         0.73416935         -0.03854         0.01485612           0.7776         -0.23273856         0.1         0.09         0.16         -0.038543642         0.749911         -0.03854         0.01485612           0.7796         -0.52373856         0.1         0.09         0.01         0.023491941         0.7778101903         -0.03854         0.00485612           0.7796         -0.55520995         0.1         0.09         0.01         0.023491941         0.75978445         0.023492         0.000551871           0.7602         0.860450144         0.1         0.07         0.02         0.019356236         0.77064914         0.019350105201         0.000231665           0.7026         -4.34909054         0.1         0.06         0.03         0.0152053         0.769517107         0.015221         0.000231665           0.7026 <td< td=""><td>0.7123</td><td>-1.88705234</td><td>0.25</td><td>0.05</td><td>0.2</td><td>-0.055086465</td><td>0.725600072</td><td>-0.05509</td><td>0.003034519</td></td<>	0.7123	-1.88705234	0.25	0.05	0.2	-0.055086465	0.725600072	-0.05509	0.003034519
0.7315         1.231663438         0.25         0.1         0.16         -0.038543642         0.72321484         -0.03854         0.001485612           0.7344         0.39644566         0.25         0.09         0.15         -0.034407937         0.731248306         -0.03183064         0.01485612           0.7734         3.147506002         0.25         0.09         0.16         -0.038543642         0.734116355         -0.03854         0.001485612           0.7716         -0.23273856         0.1         0.09         0.16         -0.038543642         0.773101903         -0.03854         0.001485612           0.7596         -1.55520995         0.1         0.09         0.01         0.023491941         0.779718126         0.023492         0.000551871           0.7764         -0.81765088         0.1         0.07         0.02         0.019356236         0.77649141         0.019366         0.0034464         0.1         0.07         0.02         0.019356236         0.7764316315         0.01522105         0.00034664         0.769416315         0.0152210         0.00034664         0.769416315         0.012521         0.00034664         0.769416315         0.012521         0.00034664         0.01522053         0.769416315         0.01255         0.00034664 <td< td=""><td>0.7521</td><td>5.587533343</td><td>0.25</td><td>0.08</td><td>0.2</td><td>-0.055086465</td><td>0.711907619</td><td>-0.05509</td><td>0.003034519</td></td<>	0.7521	5.587533343	0.25	0.08	0.2	-0.055086465	0.711907619	-0.05509	0.003034519
0.7344         0.39644566         0.25         0.09         0.15         -0.034407937         0.731248306         -0.03141         0.001183906           0.7498         2.096949891         0.25         0.09         0.16         -0.038543642         0.743116935         -0.03854         0.001485612           0.7716         -0.23273856         0.1         0.09         0.16         -0.038543642         0.749511         -0.03854         0.001485612           0.7596         -1.55520995         0.1         0.09         0.01         0.023491941         0.75778445         0.023492         0.000551871           0.7642         -0.81765088         0.1         0.07         0.02         0.019356236         0.77064914         0.019356236         0.7604914         0.019356236         0.7604914         0.019356236         0.7604914         0.019356236         0.7604914         0.01         0.07         0.03         0.01522053         0.76951710         0.015221         0.000231665           0.7345         -4.53600208         0.1         0.06         0.03         0.01522053         0.76951707         0.15221         0.00231665           0.7345         -4.53600208         0.1         0.06         0.03         0.01522053         0.76951707         0.015221	0.7226	-3.92235075	0.25	0.09	0.17	-0.042679348	0.751779009	-0.04268	0.001821527
0.7498         2.096949891         0.25         0.09         0.16         -0.038543642         0.734116935         -0.03854         0.001485612           0.7774         3.147506002         0.25         0.09         0.16         -0.038543642         0.749511         -0.03854         0.001485612           0.7750         1.23273856         0.1         0.09         0.16         -0.038543642         0.749511         -0.03854         0.001485612           0.7596         -1.55520995         0.1         0.09         0.01         0.023491941         0.77978445         0.023492         0.000551871           0.7604         0.680450144         0.1         0.07         0.02         0.019356236         0.77064914         0.0152051         0.000231665           0.7694         0.680450144         0.1         0.07         0.03         0.0152053         0.7695170         0.015221         0.000231665           0.7026         -4.34309054         0.1         0.08         0.04         0.011084825         0.734518148         0.011085         0.0007374664           0.7375         2.98840944         0.1         0.1         0.02         0.019356236         0.702735997         0.019356         0.000736566           0.7121         -3.1593	0.7315	1.231663438	0.25	0.1	0.16	-0.038543642	0.722321484	-0.03854	0.001485612
0.7734         3.147506002         0.25         0.09         0.16         -0.038543642         0.749511         -0.03854         0.001485612           0.7716         -0.23273856         0.1         0.09         0.16         -0.038543642         0.773101903         -0.03854         0.001485612           0.7705         -1.55520995         0.1         0.09         0.01         0.023491941         0.759718445         0.023492         0.000551871           0.7642         -0.81765088         0.1         0.07         0.02         0.019356236         0.77064914         0.019356         0.000374664           0.7694         0.680450144         0.1         0.07         0.03         0.01522053         0.764316315         0.015221         0.00231665           0.7345         -4.53600208         0.1         0.06         0.03         0.01522053         0.764316315         0.015221         0.00231665           0.7345         -4.53600208         0.1         0.08         0.04         0.011084825         0.73451418         0.01108         0.00         0.027627677         0.716297842         0.027628287         0.07345644         0.73757         2.98840944         0.1         0.09         0.027627647         0.716297842         0.02763287         0.0079356	0.7344	0.39644566	0.25	0.09	0.15	-0.034407937	0.731248306	-0.03441	0.001183906
0.7716         -0.23273856         0.1         0.09         0.16         -0.038543642         0.773101903         -0.03854         0.001485612           0.7596         -1.55520995         0.1         0.09         0.01         0.023491941         0.771781264         0.023492         0.000551871           0.7642         -0.81765088         0.1         0.07         0.02         0.019356236         0.7706914         0.019356236         0.7706914         0.019356236         0.760914         0.019356236         0.0760914         0.019356236         0.0760914         0.019356236         0.0760914         0.019356236         0.0760914         0.019356236         0.0760914         0.019356236         0.0760914         0.00221665         0.00231665         0.076026         0.010418         0.010418         0.010418         0.010418         0.010418         0.010418         0.010418         0.010418         0.010418         0.010418         0.010418         0.010418         0.010418         0.010418         0.010418         0.020763597         0.019356236         0.002735997         0.019356230         0.010418         0.020763283         0.00274664         0.010418         0.020763283         0.00274664         0.010418         0.020746294         0.010418         0.020746294         0.010418         0.020746294	0.7498	2.096949891	0.25	0.09	0.16	-0.038543642	0.734116935	-0.03854	0.001485612
0.7596         -1.55520995         0.1         0.09         0.01         0.023491941         0.771781264         0.023492         0.000551871           0.7705         1.434965771         0.1         0.08         0.01         0.023491941         0.759778445         0.023492         0.000551871           0.7694         0.680450144         0.1         0.07         0.03         0.01522053         0.7604914         0.10         0.003         0.01522053         0.769517107         0.015221         0.000231665           0.7345         4.53600208         0.1         0.06         0.03         0.01522053         0.769517107         0.015221         0.000231665           0.7026         4.34309054         0.1         0.08         0.04         0.011084825         0.734581418         0.011085         0.00017866           0.7161         1.921434671         0.1         0.1         0.02         0.019356236         0.70275897         0.019356         0.0007374664           0.7375         2.98840944         0.1         0.09         0         0.027627647         0.716297842         0.027628         0.000736666           0.7142         3.15932203         0.1         0.08         0.02         0.019356236         0.74338242         0.0193562	0.7734	3.147506002	0.25	0.09	0.16	-0.038543642	0.749511	-0.03854	0.001485612
0.7705         1.434965771         0.1         0.08         0.01         0.023491941         0.759778445         0.023492         0.000551871           0.7642         -0.81765088         0.1         0.07         0.02         0.019356236         0.77064914         0.019356         0.000374664           0.7649         0.680450144         0.1         0.06         0.03         0.01522053         0.769517107         0.015221         0.000231665           0.7026         -4.34309054         0.1         0.08         0.04         0.011084825         0.73451418         0.011085         0.000212873           0.7161         1.921434671         0.1         0.1         0.02         0.019356236         0.702735997         0.019356236         0.00073589         0.000763287           0.7375         2.98840944         0.1         0.08         0.01         0.023491941         0.73767233         0.020551871           0.6902         -3.36040325         0.1         0.08         0.02         0.019356236         0.741338242         0.019356236         0.690333597         0.00374664           0.6515         -3.4023402         0.1         0.08         0.02         0.019356236         0.65103939         0.00374664           0.6613 <t< td=""><td>0.7716</td><td>-0.23273856</td><td>0.1</td><td>0.09</td><td>0.16</td><td>-0.038543642</td><td>0.773101903</td><td>-0.03854</td><td>0.001485612</td></t<>	0.7716	-0.23273856	0.1	0.09	0.16	-0.038543642	0.773101903	-0.03854	0.001485612
0.7642         -0.81765088         0.1         0.07         0.02         0.019356236         0.77064914         0.019356         0.000374664           0.7694         0.680450144         0.1         0.07         0.03         0.01522053         0.764316315         0.015221         0.000231665           0.7026         -4.34309054         0.1         0.06         0.03         0.01522053         0.769517107         0.015221         0.000231665           0.7161         1.921434671         0.1         0.1         0.02         0.019356236         0.702735997         0.019356         0.000734664           0.7375         2.98840944         0.1         0.09         0         0.027627647         0.716297842         0.027628         0.00075387           0.6902         -3.36040325         0.1         0.08         0.02         0.019356236         0.714338242         0.019356         0.000374664           0.6666         -3.41929875         0.1         0.08         0.02         0.019356236         0.660729029         0.019356         0.000374664           0.6135         -5.76036866         0.1         0.08         0.02         0.019356236         0.651102599         0.019356         0.000374664           0.6509         6.096169	0.7596	-1.55520995	0.1	0.09	0.01	0.023491941	0.771781264	0.023492	0.000551871
0.7694         0.680450144         0.1         0.07         0.03         0.01522053         0.764316315         0.015221         0.000231665           0.7345         -4.53600208         0.1         0.06         0.03         0.01522053         0.769517107         0.015221         0.000231665           0.7026         -4.34309054         0.1         0.08         0.04         0.011084825         0.734581418         0.011085         0.000122873           0.7375         2.98840944         0.1         0.09         0         0.027627647         0.716297842         0.025492         0.000763287           0.742         -3.15932203         0.1         0.08         0.01         0.023491941         0.737673253         0.023492         0.000571666           0.6666         -3.41929875         0.1         0.08         0.02         0.019356236         0.6606729029         0.019356         0.000374664           0.6515         -2.34023402         0.1         0.08         0.02         0.019356236         0.666729029         0.019356         0.000374664           0.6591         6.096169519         0.1         0.08         0.02         0.019356236         0.666729029         0.019356         0.000374664           0.6691         2.796	0.7705	1.434965771	0.1	0.08	0.01	0.023491941	0.759778445	0.023492	0.000551871
0.7345         -4.53600208         0.1         0.06         0.03         0.01522053         0.769517107         0.015221         0.0002316655           0.7026         -4.34309054         0.1         0.08         0.04         0.011084825         0.734581418         0.011085         0.000122873           0.7161         1.921434671         0.1         0.1         0.02         0.019356236         0.702735997         0.019356         0.000737464           0.7142         -3.15932203         0.1         0.08         0.01         0.023491941         0.737673253         0.023492         0.000571871           0.6902         -3.36040325         0.1         0.08         0.02         0.019356236         0.744338242         0.019356         0.000374664           0.661         -2.34023402         0.1         0.08         0.02         0.019356236         0.6690333597         0.009374664           0.651         -2.34023402         0.1         0.08         0.02         0.019356236         0.651126009         0.019356         0.000374664           0.6599         6.096169519         0.1         0.08         0.02         0.019356236         0.651126009         0.019356         0.000374664           0.6591         1.931998207 <t< td=""><td>0.7642</td><td>-0.81765088</td><td>0.1</td><td>0.07</td><td>0.02</td><td>0.019356236</td><td>0.77064914</td><td>0.019356</td><td>0.000374664</td></t<>	0.7642	-0.81765088	0.1	0.07	0.02	0.019356236	0.77064914	0.019356	0.000374664
0.7026         -4.34309054         0.1         0.08         0.04         0.011084825         0.734581418         0.011085         0.000122873           0.7161         1.921434671         0.1         0.1         0.02         0.019356236         0.702735979         0.019355         0.000374564           0.7375         2.98840944         0.1         0.09         0         0.027627647         0.716297842         0.027628         0.000735287           0.7142         -3.15932203         0.1         0.08         0.01         0.023491941         0.73767353         0.023492         0.000571871           0.6902         -3.36040325         0.1         0.08         0.02         0.019356236         0.71438242         0.019356         0.000374664           0.6551         -2.34023402         0.1         0.08         0.02         0.019356236         0.661729029         0.019356         0.000374664           0.6509         6.096169519         0.1         0.08         0.02         0.019356236         0.6130579         0.19356236         0.6102599         0.019356         0.000374664           0.6691         2.796128438         0.1         0.2         0.02         0.019356236         0.61305777         0.68985707         0.04758889	0.7694	0.680450144	0.1	0.07	0.03	0.01522053	0.764316315	0.015221	0.000231665
0.7161         1.921434671         0.1         0.1         0.02         0.019356236         0.70273597         0.019356         0.000374664           0.7375         2.98840944         0.1         0.09         0         0.027627647         0.716297842         0.0276288         0.000765288         0.000765288           0.6902         -3.36040325         0.1         0.08         0.02         0.019356236         0.714338242         0.019356         0.000374664           0.6666         -3.41929875         0.1         0.08         0.02         0.019356236         0.690333597         0.019356         0.000374664           0.6151         -5.76036866         0.1         0.08         0.02         0.019356236         0.66179029         0.019356         0.000374664           0.6151         -5.76036866         0.1         0.08         0.02         0.019356236         0.661729029         0.19356         0.000374664           0.6509         6.096169519         0.1         0.08         0.02         0.019356236         0.65102599         0.019356         0.000374664           0.6691         2.796128438         0.1         0.2         0.02         0.019356236         0.65102599         0.019356236         0.65102599         0.019356236	0.7345	-4.53600208	0.1	0.06	0.03	0.01522053	0.769517107	0.015221	0.000231665
0.7375         2.98840944         0.1         0.09         0         0.027627647         0.716297842         0.027628         0.000763287           0.7142         -3.15932203         0.1         0.08         0.01         0.023491941         0.737673253         0.023492         0.000551871           0.6966         -3.41929875         0.1         0.08         0.02         0.019356236         0.690333597         0.019356         0.000374664           0.651         -2.34023402         0.1         0.08         0.02         0.019356236         0.666729029         0.019356         0.000374664           0.6135         -5.76036866         0.1         0.08         0.02         0.019356236         0.651126009         0.019356         0.000374664           0.6591         2.796128438         0.1         0.2         0.02         0.019356236         0.651126009         0.019356         0.000374664           0.67021         4.931998207         0.1         0.33         -0.1         0.068984703         0.669561577         0.068985         0.004758889           0.6764         -3.66044723         0.1         0.77         -0.23         0.122748875         0.70296182         0.122749         0.015067286           0.6893         1.09	0.7026	-4.34309054	0.1	0.08	0.04	0.011084825	0.734581418	0.011085	0.000122873
0.7142         -3.15932203         0.1         0.08         0.01         0.023491944         0.737673253         0.02492         0.000551871           0.6902         -3.36040325         0.1         0.08         0.02         0.019356236         0.714338242         0.019355         0.000374664           0.666         -3.41929875         0.1         0.08         0.02         0.019356236         0.690333597         0.019356         0.000374664           0.6515         -2.34023402         0.1         0.08         0.02         0.019356236         0.661126009         0.019356         0.000374664           0.6509         6.096169519         0.1         0.08         0.02         0.019356236         0.651126009         0.019356         0.000374664           0.6691         2.796128438         0.1         0.2         0.02         0.019356236         0.65102599         0.019356         0.000374664           0.6764         4.931998207         0.1         0.33         -0.1         0.068984703         0.669512797         0.068985         0.004758889           0.6764         3.66044723         0.1         0.77         -0.23         0.122748875         0.70296182         0.122749         0.015067286           0.6893         1.90	0.7161	1.921434671	0.1	0.1	0.02	0.019356236	0.702735997	0.019356	0.000374664
0.6902         -3.36040325         0.1         0.08         0.02         0.019356236         0.714338242         0.019356         0.000374664           0.6666         -3.41929875         0.1         0.08         0.02         0.019356236         0.690333597         0.019355         0.000374664           0.6155         -2.34023402         0.1         0.08         0.02         0.019356236         0.661720029         0.019356         0.000374664           0.6509         6.096169519         0.1         0.08         0.02         0.019356236         0.613168751         0.019356         0.000374664           0.6691         2.796128438         0.1         0.2         0.02         0.019356236         0.65102599         0.019356         0.000374664           0.6701         4.31998207         0.1         0.33         -0.1         0.068984703         0.669561577         0.068985         0.004758889           0.6744         -3.66044723         0.1         0.77         -0.23         0.122748875         0.70296182         0.122749         0.015067286           0.6893         1.907155529         0.35         1.21         -0.67         0.30471992         0.678461126         0.30472         0.09285423           0.6749         -2.	0.7375	2.98840944	0.1	0.09	0	0.027627647	0.716297842	0.027628	0.000763287
0.6666         -3.41929875         0.1         0.08         0.02         0.019356236         0.690333597         0.019356         0.000374664           0.651         -2.34023402         0.1         0.08         0.02         0.019356236         0.666729029         0.019355         0.000374664           0.6535         -5.76036866         0.1         0.08         0.02         0.019356236         0.651126009         0.019356         0.000374664           0.6691         2.796128438         0.1         0.2         0.02         0.019356236         0.65102599         0.019356         0.000374664           0.7021         4.931998207         0.1         0.33         -0.1         0.068984703         0.669561157         0.019356236         0.65102599         0.019356         0.000374664           0.6764         -3.66044723         0.1         0.77         -0.23         0.122748875         0.70296182         0.12274895         0.015067286           0.6784         -3.66044723         0.35         1.21         -0.67         0.30471992         0.678461126         0.30472         0.09285423           0.6749         -2.08907587         0.85         1.68         -0.86         0.383298326         0.691942075         0.383298         0.146917607 <td>0.7142</td> <td>-3.15932203</td> <td>0.1</td> <td>0.08</td> <td>0.01</td> <td>0.023491941</td> <td>0.737673253</td> <td>0.023492</td> <td>0.000551871</td>	0.7142	-3.15932203	0.1	0.08	0.01	0.023491941	0.737673253	0.023492	0.000551871
0.651         -2.34023402         0.1         0.08         0.02         0.019356236         0.666729029         0.019356         0.000374664           0.6135         -5.76036866         0.1         0.08         0.02         0.019356236         0.651126009         0.019355         0.000374664           0.6591         2.796128438         0.1         0.2         0.02         0.019356236         0.651126099         0.019356         0.000374664           0.7021         4,931998207         0.1         0.33         -0.1         0.068984703         0.669561577         0.068985         0.004758889           0.6764         -3.66044723         0.1         0.77         -0.23         0.122748875         0.70296182         0.122749         0.015067286           0.67893         1.907155529         0.35         1.21         -0.67         0.30471992         0.678461126         0.30472         0.09285423           0.6789         -0.89807587         0.85         1.68         -0.88         0.383298326         0.691942075         0.383298         0.146917607           0.6736         -0.19262113         1.35         2.33         -0.83         0.37089121         0.677403145         0.370891         0.137560289           0.6844 <t< td=""><td>0.6902</td><td>-3.36040325</td><td>0.1</td><td>0.08</td><td>0.02</td><td>0.019356236</td><td>0.714338242</td><td>0.019356</td><td>0.000374664</td></t<>	0.6902	-3.36040325	0.1	0.08	0.02	0.019356236	0.714338242	0.019356	0.000374664
0.6135         -5.76036866         0.1         0.08         0.02         0.019356236         0.651126009         0.019356         0.000374664           0.6509         6.096169519         0.1         0.08         0.02         0.019356236         0.613618751         0.019355         0.000374664           0.6691         2.796128438         0.1         0.2         0.02         0.019356236         0.65102599         0.019355         0.000374664           0.6764         -3.66044723         0.1         0.77         -0.23         0.122748875         0.70296182         0.122749         0.015067286           0.6893         1.907155529         0.35         1.21         -0.67         0.30471992         0.678461126         0.30472         0.09285432           0.6794         -2.08907587         0.85         1.68         -0.86         0.383298326         0.691942075         0.383298         0.14971607         0.6736         0.19262113         1.35         2.33         -0.81         0.67403145         0.30472         0.09285432         0.67403145         0.30472         0.09285432         0.67403145         0.338298         0.14971607         0.6736         0.432926793         0.676516195         0.432927         0.18745608         0.7048         0.6919477514	0.6666	-3.41929875	0.1	0.08	0.02	0.019356236	0.690333597	0.019356	0.000374664
0.6509         6.096169519         0.1         0.08         0.02         0.019356236         0.613618751         0.019356         0.000374664           0.6691         2.796128438         0.1         0.2         0.02         0.019356236         0.65102599         0.019356         0.000374664           0.7021         4.931998207         0.1         0.33         -0.1         0.068984703         0.669561577         0.068985         0.004758889           0.6764         -3.66044723         0.1         0.77         -0.23         0.12274887         0.70296182         0.122749         0.015067286           0.6893         1.907155529         0.35         1.21         -0.67         0.30471992         0.678461126         0.30472         0.09285423           0.6749         -0.8997587         0.85         1.68         -0.86         0.383298322         0.691942075         0.383298         0.146917607           0.6736         -0.19262113         1.35         2.33         -0.83         0.37089121         0.6776516195         0.432927         0.18745608           0.6844         1.603325416         1.85         2.56         -0.98         0.432926793         0.665616195         0.432927         0.18745608           0.6938	0.651	-2.34023402	0.1	0.08	0.02	0.019356236	0.666729029	0.019356	0.000374664
0.6691         2.796128438         0.1         0.2         0.02         0.019356236         0.65102599         0.019356         0.000374664           0.7021         4.931998207         0.1         0.33         -0.1         0.068984703         0.669561577         0.068985         0.004758883           0.6764         -3.66044723         0.1         0.77         -0.23         0.122748875         0.70296182         0.122749         0.015067286           0.6893         1.907155529         0.35         1.21         -0.67         0.30471992         0.678461126         0.30472         0.09285423           0.6749         -2.08907587         0.85         1.68         -0.86         0.383298326         0.691942075         0.383298         0.146917607           0.6736         -0.19262113         1.35         2.33         -0.83         0.3708912         0.677403145         0.370891         0.137560288           0.6844         1.603325416         1.85         2.56         -0.98         0.432926793         0.676516195         0.4329272         0.187425608           0.702         2.571595558         2.35         3.08         -0.73         0.329534154         0.70431333         0.3232263         0.108592759           0.7048	0.6135	-5.76036866	0.1	0.08	0.02	0.019356236	0.651126009	0.019356	0.000374664
0.7021         4,931998207         0.1         0.33         -0.1         0.068984703         0.669561577         0.068985         0.004758889           0.6764         -3,66044723         0.1         0.77         -0.23         0.122748875         0.70296182         0.122749         0.015067286           0.6789         1-077155529         0.35         1.21         -0.67         0.30471992         0.678461126         0.30472         0.09285423           0.6736         -0.19262113         1.35         2.33         -0.83         0.37089121         0.677403145         0.370891         0.137560289           0.6844         1.603325416         1.85         2.56         -0.98         0.432926793         0.676516195         0.432927         0.137260289           0.702         2.571595558         2.35         3.08         -0.71         0.321626743         0.686598722         0.212263         0.10320975           0.6938         +.1.16809117         2.6         3.78         -0.73         0.329534154         0.704333         0.29559187           0.7040         1.585471317         2.85         4.1         -1.18         0.515640905         0.69737517         0.515641         0.265885543           0.7094         0.652667423	0.6509	6.096169519	0.1	0.08	0.02	0.019356236	0.613618751	0.019356	0.000374664
0.6764         -3.66044723         0.1         0.77         -0.23         0.122748875         0.70296182         0.122749         0.015067286           0.6893         1.907155529         0.35         1.21         -0.67         0.30471992         0.678461126         0.30472         0.9285423           0.6736         -0.48907587         0.85         1.68         -0.86         0.383298326         0.691942075         0.383298         0.146917607           0.6736         -0.19262113         1.35         2.33         -0.83         0.37089121         0.677403145         0.370891         0.187425608           0.6844         1.603325416         1.85         2.56         -0.98         0.432926793         0.676516195         0.432927         0.187425608           0.702         2.57159558         2.35         3.08         -0.71         0.321262743         0.686598722         0.321263         0.10320975           0.6938         -1.16809117         2.6         3.78         -0.73         0.329534154         0.7043133         0.329534         0.108592759           0.7048         1.585471317         2.85         4.1         -1.18         0.515640905         0.693777517         0.515641         0.2658554           0.7094 <td< td=""><td>0.6691</td><td>2.796128438</td><td>0.1</td><td>0.2</td><td>0.02</td><td>0.019356236</td><td>0.65102599</td><td>0.019356</td><td>0.000374664</td></td<>	0.6691	2.796128438	0.1	0.2	0.02	0.019356236	0.65102599	0.019356	0.000374664
0.6893         1.907155529         0.35         1.21         -0.67         0.30471992         0.678461126         0.30472         0.09285423           0.6749         -2.08907587         0.85         1.68         -0.86         0.383298326         0.691942075         0.383298328         0.166917607           0.6740         -1.9262113         1.35         2.33         -0.83         0.37089121         0.677403145         0.370891         0.137560289           0.6844         1.603325416         1.85         2.56         -0.98         0.432926793         0.67651615         0.422927         0.187425608           0.702         2.571599558         2.35         3.08         -0.71         0.321262743         0.686598722         0.321263         0.10320975           0.6938         -1.16809117         2.6         3.78         -0.73         0.329534154         0.70431333         0.29534         0.108592759           0.7048         1.585471317         2.85         4.1         -1.18         0.515640905         0.69377777         0.515641         0.265885543           0.7094         0.652667423         3.1         4.33         -1.25         0.544590844         0.708638276         0.544591         0.2967638534           0.7272	0.7021	4.931998207	0.1	0.33	-0.1	0.068984703	0.669561577	0.068985	0.004758889
0.6749         -2.08907587         0.85         1.68         -0.86         0.383298326         0.691942075         0.383298         0.146917607           0.6736         -0.19262113         1.35         2.33         -0.83         0.37089121         0.677403145         0.370891         0.317560288           0.6844         1.603325416         1.85         2.56         -0.98         0.432926793         0.676516195         0.432927         0.187425608           0.702         2.571599558         2.35         3.08         -0.71         0.321262743         0.686598722         0.31263         0.10320975           0.6938         -1.16809117         2.6         3.78         -0.73         0.329534154         0.70431333         0.3295341         0.108592759           0.7048         1.585471317         2.85         4.1         -1.18         0.515640905         0.697377517         0.515641         0.265885543           0.7094         0.652667423         3.1         4.33         -1.25         0.54459084         0.708638276         0.544591         0.287638534           0.7272         2.509162673         3.35         4.65         -1.47         0.635576366         0.713908779         0.63557636         0.731310639         0.565269         0.3195				0.77	-0.23				0.015067286
0.6736         -0.19262113         1.35         2.33         -0.83         0.37089121         0.677403145         0.370891         0.137560289           0.6844         1.603325416         1.85         2.56         -0.98         0.432926793         0.676516195         0.432927         0.187425608           0.702         2.571595558         2.35         3.08         -0.71         0.321262743         0.686598722         0.212263         0.10320975           0.6938         +1.16809117         2.6         3.78         -0.73         0.329534154         0.7043133         0.29539154         0.70490737757         0.515641         0.265885543           0.7094         0.652667423         3.1         4.33         -1.25         0.544590844         0.708638276         0.544591         0.286579187           0.7072         2.509162673         3.35         4.65         -1.47         0.535576366         0.71320465         0.536519         0.287638534           0.7049         -3.06555666         3.6         4.83         -1.3         0.565269372         0.731110639         0.55556         0.403957318           0.7315         3.773584906         3.6         5.06         -1.23         0.536319433         0.790880516         0.5363149         0.39877	0.6893	1.907155529		1.21	-0.67	0.30471992			0.09285423
0.6844         1.603325416         1.85         2.56         -0.98         0.432926793         0.676516195         0.432927         0.187425608           0.702         2.571595558         2.35         3.08         -0.71         0.321262743         0.686598722         0.312163         0.10320975           0.6938         -1.16809117         2.6         3.78         -0.73         0.329534154         0.70431333         0.329534         0.108592759           0.7048         1.585471317         2.85         4.1         -1.18         0.515640905         0.693777517         0.515641         0.265885543           0.7094         0.652667423         3.1         4.33         -1.25         0.544590844         0.708638276         0.544591         0.29679187           0.7072         2.509162673         3.35         4.65         -1.47         0.635576366         0.71320465         0.53651943         0.71320465         0.5365576         0.403957318           0.7049         -3.06655666         3.6         4.83         -1.3         0.5565269372         0.731130639         0.565269         0.31952463           0.7315         3.773584906         3.6         5.06         -1.23         0.536319433         0.71098680516         0.536141         0.39871	0.6749	-2.08907587	0.85	1.68	-0.86	0.383298326			0.146917607
0.702         2.571595558         2.35         3.08         -0.71         0.321262743         0.686598722         0.321263         0.10320975           0.6938         -1.16809117         2.6         3.78         -0.73         0.329534154         0.70431333         0.3295344         0.108592759           0.7048         1.585471317         2.85         4.1         -1.18         0.515640908         0.697377517         0.51546491         0.2665885543           0.7094         0         3.1         4.33         -1.25         0.544590844         0.708638276         0.544591         0.2967579187           0.7024         0         3.1         4.57         -1.23         0.536119433         0.713908779         0.635576         0.403957318           0.7049         -3.06655666         3.6         4.83         -1.3         0.5652699372         0.731310639         0.565269         0.319529463           0.7315         3.77384906         3.6         5.06         -1.23         0.536319433         0.708680516         0.53631943         0.78680516         0.3631441         0.398717308           0.7028         2.191432207         4.1         5.25         -1.23         0.536319433         0.71093387         0.53631943         0.71093387									
0.6938         -1.16809117         2.6         3.78         -0.73         0.329534154         0.70431333         0.329534         0.108592759           0.7048         1.585471317         2.85         4.1         -1.18         0.515640905         0.697377517         0.515641         0.265885543           0.7094         0.6362676423         3.1         4.33         -1.25         0.544590844         0.708638276         0.545991         0.287638534           0.7072         2.509162673         3.35         4.65         -1.47         0.635576366         0.713908779         0.635576         0.403957318           0.7049         -3.06655666         3.6         4.83         -1.3         0.565269372         0.731310639         0.556269         0.319529463           0.7315         3.773584906         3.6         5.06         -1.23         0.536319433         0.708680516         0.5363194         0.287638534           0.7073         -3.30827068         3.85         5.08         -1.46         0.631440661         0.736118988         0.631441         0.398717308           0.7228         2.191432207         4.1         5.25         -1.23         0.536319433         0.71093387         0.556319         0.287638534           0.719									0.187425608
0.7048         1.585471317         2.85         4.1         -1.18         0.515640905         0.697377517         0.515641         0.26588543           0.7094         0.652667423         3.1         4.33         -1.25         0.544590844         0.708638276         0.544591         0.296579187           0.7072         2.509162673         3.35         4.65         -1.47         0.635576366         0.713908779         0.6355760         0.403957318           0.7049         -3.06555666         3.6         4.83         -1.3         0.565269372         0.731310639         0.556269         0.319529463           0.7315         3.773584906         3.6         5.06         -1.23         0.536319433         0.708680516         0.536314         0.398773708           0.7073         -3.30827068         3.85         5.08         -1.46         0.631440661         0.736118988         0.631440         0.398717308           0.719         -0.52573326         4.1         5.5         -1.15         0.503233788         0.726437374         0.503234         0.253244245									0.10320975
0.7094         0.652667423         3.1         4.33         -1.25         0.544590844         0.708638276         0.544591         0.296579187           0.7094         0         3.1         4.57         -1.23         0.536319433         0.71320465         0.536319         0.287638534           0.7049         -3.06655666         3.6         4.83         -1.3         0.565269372         0.731310639         0.555269         0.319529463           0.7315         3.773584906         3.6         5.06         -1.23         0.536319433         0.706880516         0.536319         0.287638534           0.7073         -3.30827068         3.85         5.08         -1.46         0.631440661         0.736118988         0.631440         0.2987638534           0.719         -0.52573326         4.1         5.5         -1.15         0.503233788         0.726437374         0.503234         0.253244245									
0.7094         0         3.1         4.57         -1.23         0.536319433         0.71320465         0.536319         0.287638534           0.7272         2.509162673         3.35         4.65         -1.47         0.635576366         0.713908779         0.635576         0.403957318           0.7049         -3.06655666         3.6         4.83         -1.3         0.556269372         0.731310639         0.5563699         0.319529468           0.7073         -3.73584906         3.6         5.06         -1.23         0.536319433         0.708680516         0.5363199         0.287638534           0.7073         -3.0827068         3.85         5.08         -1.46         0.631440661         0.736118988         0.631441         0.398717308           0.7228         2.191432207         4.1         5.25         -1.23         0.536319433         0.71093387         0.536319         0.287638534           0.719         -0.52573326         4.1         5.5         -1.15         0.503233788         0.726437374         0.503234         0.253244245			2.85	4.1	-1.18	0.515640905			
0.7272         2.509162673         3.35         4.65         -1.47         0.635576366         0.713908779         0.635576         0.403957318           0.7049         -3.06655666         3.6         4.83         -1.3         0.565269372         0.731310639         0.565269         0.319529463           0.7315         3.773584906         3.6         5.06         -1.23         0.536319433         0.708680516         0.53631431         0.398717308           0.7073         -3.30827068         3.85         5.08         -1.46         0.631440661         0.736118988         0.631441         0.398717308           0.7228         2.191432207         4.1         5.25         -1.23         0.536319433         0.711093387         0.53631943         0.287638534           0.719         -0.52573326         4.1         5.5         -1.15         0.503233788         0.726437374         0.503234         0.253244245									
0.7049         -3.06655666         3.6         4.83         -1.3         0.565269372         0.731310639         0.565269         0.319529463           0.7315         3.773584906         3.6         5.06         -1.23         0.536319433         0.708680516         0.53631943         0.736818988         0.6361441         0.398717308           0.7228         2.191432207         4.1         5.25         -1.23         0.536319433         0.711093387         0.53631943         0.287638534           0.719         -0.52573326         4.1         5.5         -1.15         0.503233788         0.726437374         0.503234         0.253244245		_							
0.7315         3.773584906         3.6         5.06         -1.23         0.536319433         0.708680516         0.536319         0.287638534           0.7073         -3.30827068         3.85         5.08         -1.46         0.631440661         0.736118988         0.631441         0.398717308           0.7228         2.191432207         4.1         5.25         -1.23         0.536319433         0.711093387         0.536319         0.287638534           0.719         -0.52573326         4.1         5.5         -1.15         0.503233788         0.726437374         0.503234         0.253244245									
0.7073         -3.30827068         3.85         5.08         -1.46         0.631440661         0.736118988         0.631441         0.398717308           0.7228         2.191432207         4.1         5.25         -1.23         0.536319433         0.711093387         0.536319         0.287638534           0.719         -0.52573326         4.1         5.5         -1.15         0.503233788         0.726437374         0.503234         0.253244245									0.319529463
0.7228         2.191432207         4.1         5.25         -1.23         0.536319433         0.711093387         0.536319         0.287638534           0.719         -0.52573326         4.1         5.5         -1.15         0.503233788         0.726437374         0.503234         0.253244245									
0.719 -0.52573326 4.1 5.5 -1.15 0.503233788 0.726437374 0.503234 0.253244245									
deviation 0.32529763	0.719	-0.52573326	4.1	5.5	-1.15	0.503233788	0.726437374		
								deviation	0.32529763

Regressi	on Statistics							
Multiple R	0.071359941							
R Square	0.005092241							
Adjusted R	-0.01206134							
Standard E	3.137853366							
Observatio	60							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	1	2.92293686	2.92293686	0.296861683	0.587945567			
Residual	58	571.075177	9.84612375					
Total	59	573.998114						
	Coefficients	tandard Erro	t Stat	P-value	Lower 95%	Upper 95%	ower 95.0!	Upper 95.0%
Intercept	0.027627647	0.56084777	0.04926051	0.960880936	-1.095031144	1.150286437	-1.09503	1.150286437
X Variable 1	-0.41357056	0.75905377	-0.5448501	0.587945567	-1.932981758	1.105840643	-1.93298	1.105840643

Appendix 3- Technical Approach

0.726         0.70429         -2.99036         8.94224172           0.7123         0.7115         -0.11231         0.01261403           0.7521         0.71832         -4.49142         20.172886           0.7226         0.72073         -0.25879         0.06697107           0.7315         0.72487         -0.90636         0.82148265           0.7344         0.72658         -1.06481         1.1338305           0.7734         0.73093         -2.51667         633363348           0.7716         0.73307         -4.55329         18.951150           0.7796         0.7433         -2.14192         4.5878075           0.7705         0.7478         2.94873         8.695035           0.7642         0.75297         -1.46951         2.15946140           0.7694         0.7547         -1.91058         3.65031466           0.7345         0.75589         2.912185         8.4808224           0.7026         0.7537         7.173356         51.4570378           0.7161         0.75117         4.897361         23.9841418           0.7345         0.75478         4.68678         2.84522565           0.7142         0.74022         4.175301         17.4331387 </th <th></th> <th>Technical App</th> <th>roach</th> <th></th>		Technical App	roach	
0.672 0.6666 0.655 0.66607 0.6685 0.6607 0.6685 0.6728 0.7054 0.6813 0.6786 0.6697 0.66813 0.66987 0.66938 0.66937 0.66956 0.66039 0.66939 0.66930 0.6985 0.67296 0.6985 0.67296 0.6985 0.67296 0.6901 0.6759 0.7173 0.68078 0.50913 0.7173 0.68078 0.50913 0.7173 0.68078 0.7173 0.68078 0.7173 0.68078 0.7260 0.7262 0.7262 0.7064 0.69566 0.75296 0.7062 0.7064 0.69566 0.75297 0.7123 0.7114 0.7314 0.7315 0.7347 0.7340 0.7340 0.7349 0.7303 0.7341 0.7340 0.7341 0.7341 0.7342 0.7408 0.75297 0.74081 0.75297 0.74082 0.75297 0.74082 0.75297 0.74082 0.75297 0.74082 0.75297 0.74142 0.75297 0.75298 0.75298 0.75298 0.75298 0.75298 0.75298 0.75298 0.75298 0.75298 0.75298 0.75298 0.75298 0.75298 0.75298 0.75299 0.75298 0.75299 0.75298 0.75299 0.	Exchange Rate	Moving Average	Error (%)	Error Squared
0.66666 0.65 0.6607 0.66685 0.6728 0.7054 0.66813 0.6786 0.6697 0.66985 0.6397 0.66986 0.66381 0.6397 0.66986 0.66381 0.66811 0.230882 0.33063633 0.66811 0.6985 0.66996 0.66910 0.6796 0.66911 0.6797 0.68078 0.6901 0.7173 0.68078 0.68413 0.7266 0.68413 0.7266 0.7262 0.6928 0.7262 0.7262 0.7262 0.7263 0.7263 0.7264 0.7315 0.7265 0.7265 0.7266 0.7267 0.7268 0.7267 0.7268 0.7268 0.7269 0.7269 0.7260 0.7261 0.7261 0.7262 0.7263 0.7262 0.7263 0.7263 0.7264 0.7265 0.7265 0.7267 0.7268 0.7267 0.72726 0.7273 0.7287 0.7287 0.7287 0.7315 0.72487 0.7268 0.7344 0.7347 0.7347 0.7344 0.7347 0.7348 0.7349 0.7349 0.7393 0.7794 0.7796 0.7340 0.7341 0.7596 0.7433 0.7498 0.7597 0.7694 0.7597 0.7695 0.7358 0.66763 0.7113 0.7598 0.66676 0.72658 0.9797 0.66666 0.72658 0.9797 0.6691 0.6666 0.72658 0.9797 0.6691 0.66817 0.6691 0.66817 0.6692 0.75388 0.66931 0.67249 0.66931 0.66941 0.66817 0.66941 0.66964 0.75471 0.76941 0.76941 0.76941 0.76941 0.76941 0.76942 0.7597 0.76996 0.73588 0.618371 0.76909 0.73588 0.618371 0.76909 0.73588 0.618371 0.7694 0.7694 0.7597 0.7694 0.7694 0.7597 0.7693 0.7694 0.7694 0.7597 0.7694 0.7694 0.7597 0.7694 0.7694 0.7597 0.7695 0.7694 0.7694 0.7597 0.7695 0.7694	0.6411			
0.655 0.6607 0.6685 0.6728 0.7054 0.6813 0.6786 0.6697 0.6695 0.66786 0.6697 0.66937 0.66956 0.66938 0.66937 0.66936 0.66939 0.66911 0.23082 0.66931 0.6985 0.67296 0.6985 0.67296 0.6985 0.67296 0.6901 0.6759 0.7173 0.68078 0.7048 0.68839 0.68319 0.7048 0.68839 0.7048 0.68839 0.7049 0.7049 0.7049 0.7040 0.7040 0.7040 0.7040 0.7040 0.7040 0.7041 0.7041 0.7041 0.7041 0.7041 0.7042 0.7043 0.7044 0.70450 0.70450 0.70450 0.70460 0.70470 0.70470 0.7048 0.7049	0.672			
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0.6813         0.66786         0.6697         -1.31152         1.72009448           0.6397         0.66956         4.667813         21.7884785           0.6402         0.66638         4.089347         16.7227595           0.6839         0.66811         -2.30882         5.33063636           0.69985         0.67699         -3.65641         13.3693091           0.7173         0.68078         5.09131         25.9214848           0.7063         0.68413         -3.13889         9.85264814           0.7064         0.69366         -1.52039         2.31157070           0.7064         0.69566         -1.52039         2.31157070           0.7266         0.70429         2.99036         8.94224172           0.72123         0.7115         -0.11231         0.01261403           0.7226         0.72073         -0.25879         0.06697107           0.7315         0.71832         -4.49142         20.1728896           0.7226         0.72073         -0.25879         0.06697107           0.7315         0.72478         -0.90636         0.82148265           0.7344         0.7268         -1.06481         1.1338303           0.7349         0.7303         -2				
0.6786         0.6697         -1.31152         1.72009448           0.6397         0.66956         4.667813         21.7848788           0.6402         0.66638         4.667813         21.7848788           0.6839         0.66811         -2.30882         5.33636363           0.6985         0.6796         -3.65641         13.3693091           0.7173         0.68078         5.09131         25.9214848           0.7063         0.68413         -3.13889         9.85264814           0.7064         0.68839         7.96925         63.508966           0.7262         0.69288         -4.58827         21.052004           0.7064         0.69566         -1.52039         2.3115707           0.7262         0.70429         -2.99036         8.94224172           0.7123         0.7115         -0.1231         0.01261403           0.7521         0.71832         -4.49142         20.172889           0.7226         0.72073         -0.25879         0.6669710           0.7315         0.72487         -0.90636         0.82148265           0.7344         0.72689         1.06481         1.338303           0.7349         0.73099         -2.51667         6.33363348				
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0.6839         0.66811         -2.30882         5.33063636           0.6985         0.67296         -3.65641         13.3693091           0.6901         0.6759         -2.05767         4.23401735           0.7173         0.68078         -5.09131         25.9214848           0.7063         0.68413         -3.13889         9.85264814           0.7262         0.69288         -4.58827         2.10522004           0.7064         0.69566         -1.52039         2.31157070           0.726         0.70429         -2.99036         8.94224172           0.7123         0.7115         -0.11231         0.01261403           0.7226         0.72073         -0.25879         0.06697107           0.7212         0.7118         -0.11231         0.01261403           0.7226         0.72073         -0.25879         0.06697107           0.7315         0.72487         -0.90636         0.82148265           0.7344         0.72658         -1.06481         1.1338036           0.7344         0.73347         -5.16292         26.6557118           0.7734         0.73347         -5.16292         26.6557118           0.7795         0.7478         -2.94873         8.				
0.6985         0.67269         -3.65641         13.3693091           0.6901         0.6799         -2.05767         4.23401733           0.7717         0.68078         -5.09131         25.921484           0.7063         0.68413         -3.13889         9.85264814           0.748         0.68839         -7.96925         63.5089668           0.7262         0.69288         -4.58827         2.1052200           0.7064         0.6956         -1.52039         2.3115707           0.7123         0.7115         0.01261403           0.77221         0.71832         -4.49142         20.172886           0.77226         0.72073         -0.25879         0.06697107           0.77215         0.71832         -4.9142         20.172886           0.7315         0.72487         -0.90636         0.82148265           0.7344         0.72658         -1.06481         1.1338303           0.7498         0.73093         -2.51667         6.33363348           0.77916         0.73431         -2.43129         2.6557118           0.7596         0.73432         -2.14192         4.8787057           0.7642         0.75297         -1.46951         2.15946140      <				
0.6901         0.6759         -2.05767         4.23401735           0.7173         0.68078         -5.09131         25.9214848           0.7063         0.68413         -3.13889         9.85264814           0.748         0.68839         -7.96925         63.5089668           0.7262         0.69288         -4.58827         21.0522004           0.7026         0.70429         -2.99036         8.94224172           0.7123         0.7115         -0.11231         0.01261403           0.7226         0.72073         -0.25879         0.06697107           0.7226         0.72073         -0.25879         0.06697107           0.7315         0.72487         -0.90636         0.82148265           0.7344         0.72658         -1.06481         1.1338305           0.7734         0.73347         -5.16292         2.6557118           0.7734         0.73347         -5.16292         2.6557118           0.7796         0.74383         -2.14192         4.8878075           0.7707         0.74778         -2.94873         8.6950356           0.7642         0.75297         -1.46951         2.15946144           0.7694         0.7547         -1.91058         3.650				
0.7173         0.68078         -5.09131         25.9214848           0.7063         0.68413         -3.13889         9.85264814           0.7262         0.69288         -4.5827         21.052206           0.7064         0.69566         -1.52039         2.3115707           0.726         0.70429         -2.99036         8.94224172           0.7223         0.7115         -0.11231         0.01261403           0.7521         0.71832         -4.49142         20.172889           0.7226         0.72073         -0.25879         0.06697107           0.7315         0.72487         0.90636         0.82148266           0.7344         0.72658         -1.06481         1.1338305           0.7734         0.73039         -2.51667         6.33363348           0.7734         0.73347         -5.16292         26.6557118           0.7596         0.74333         -2.14192         4.58780757           0.7642         0.75297         -1.46951         2.15946144           0.7694         0.7547         -1.91058         3.6503468           0.7345         0.75589         2.912185         8.48082244           0.7026         0.7537         7.173356         51.4570				
0.7063         0.68413         -3.13889         9.85264814           0.748         0.68839         -7.96925         63.508966           0.7262         0.69288         -4.58827         21.0522004           0.7064         0.69566         -1.52039         2.3115707           0.726         0.70429         -2.99036         8.94224172           0.7123         0.7115         -0.11231         0.01261403           0.7521         0.71832         -4.49142         20.1728898           0.7226         0.72073         -0.25879         0.06697107           0.7315         0.72487         -0.90636         0.8214826           0.7344         0.72658         -1.06481         1.133803           0.7344         0.72658         -1.06481         1.133803           0.7734         0.73347         -5.16292         26.6557118           0.7716         0.73437         -5.16292         26.6557118           0.7795         0.74778         -2.94873         8.6950356           0.7642         0.75297         -1.46951         2.15946140           0.7645         0.75478         -2.94873         8.6950356           0.7345         0.75589         -2.912185         8.48082				
0.748         0.68839         -7.96925         63.5089668           0.7262         0.69288         -4.58827         21.0522004           0.7064         0.69566         -1.52039         2.3115707           0.726         0.70429         -2.99036         8.94224172           0.7123         0.7115         -0.11231         0.01261403           0.7226         0.72073         -0.25879         0.06697107           0.7315         0.72487         -0.90636         0.82148265           0.73444         0.72658         -1.06481         1.1338305           0.7798         0.73093         -2.51667         6.33363348           0.7794         0.73301         -4.35329         18.9511500           0.7596         0.74381         -2.94873         8.6950356           0.7705         0.74778         -2.94873         8.6950356           0.7504         0.75297         -1.46951         2.15946144           0.7694         0.7527         -1.4918         2.848082244           0.7026         0.7537         -173356         51.4570376           0.7041         0.7547         -1.91058         3.65031468           0.7348         0.75297         -1.46911         2.1546				
0.7262         0.69288         -4.58827         21.0522004           0.7064         0.69566         -1.52039         2.3115707           0.726         0.70429         -2.99036         8.9422417           0.7123         0.7115         -0.11231         0.01261403           0.7521         0.71832         -4.9142         20.1728896           0.7226         0.72073         -0.25879         0.06697107           0.7315         0.72487         -0.90636         0.82148265           0.7344         0.72658         -1.06481         1.1338305           0.7734         0.73034         -5.16292         26.6557118           0.7734         0.73347         -5.16292         26.6557118           0.7796         0.74333         -2.14192         4.5878075           0.7707         0.74778         -2.94873         8.695035           0.7642         0.75297         -1.46951         2.15946144           0.7694         0.7547         -1.91058         3.65031468           0.7345         0.75589         2.912185         8.48082244           0.7026         0.753         7.173356         51.4570378           0.77141         0.74402         4.175301         1.74331				
0.7064 0.69566 -1.52039 2.31157076 0.726 0.70429 -2.99036 8.94224172 0.7123 0.7115 -0.11231 0.01261403 0.7521 0.71832 -4.49142 20.1728896 0.7226 0.72073 -0.25879 0.06697107 0.7315 0.72487 -0.90636 0.82148265 0.7344 0.72658 -1.06481 1.1338303 0.7498 0.73093 -2.51667 6.33363348 0.7734 0.73347 -5.16292 26.6557118 0.7716 0.73801 -4.35329 18.9511500 0.7596 0.74333 -2.14192 4.58780757 0.7705 0.74778 -2.94873 8.6950356 0.7642 0.75297 -1.46951 2.15946144 0.7694 0.7547 -1.91058 3.655031468 0.7345 0.75589 2.912185 8.48082244 0.7026 0.753 7.173356 51.4570378 0.7161 0.75117 4.897361 23.9841418 0.6902 0.73588 6.618371 43.8028411 0.6666 0.72658 8.9979 80.962200 0.6551 0.71463 9.774194 9.534859 0.6135 0.69956 14.02771 196.77664 0.6509 0.68771 5.655247 31.981813 0.6609 0.6817 1.803916 3.2541118 0.6902 0.7358 6.618371 43.8028411 0.7021 0.68112 -2.98818 8.92920968 0.6694 0.6674 -1.01841 1.0371559 0.6644 0.6675 0.10881 0.01229462 0.6736 0.66674 -1.01841 1.0371559 0.6844 0.66852 -2.32028 5.3837017 0.7024 0.6736 -0.66674 -1.01841 1.0371559 0.6938 0.68704 -2.51986 6.34971352 0.7049 0.6984 -0.96311 0.92757248 0.7049 0.6984 -0.96311 0.92757248 0.7049 0.6984 -0.96311 0.92757248 0.7049 0.6984 -0.96311 0.92757248 0.7049 0.6984 -0.96311 0.92757248 0.7049 0.6984 -0.96311 0.92757248 0.7049 0.6984 -0.96311 0.92757248 0.7049 0.6984 -0.96311 0.92757248 0.7049 0.6984 -0.96311 0.92757248 0.7049 0.6984 -0.9649 1.553837 6.67640327 0.70749 0.6984 -0.91644 0.8398660 0.7315 0.7047 0.20403 0.0057768 0.7073 0.70747 0.02403 0.0057768 0.7073 0.70747 0.02403 0.00057768 0.7072 0.70749 0.02403 0.00057768 0.7019 0.71301 -0.8331 0.69405815				
0.726         0.70429         -2.99036         8.94224172           0.7123         0.7115         -0.11231         0.01261403           0.7521         0.71832         -4.49142         20.172886           0.7226         0.72073         -0.25879         0.66697107           0.7315         0.72487         -0.90636         0.82148265           0.7344         0.72658         -1.06481         1.1338303           0.7734         0.73093         -2.51667         6.33363348           0.7716         0.73301         -4.35329         18.951150           0.7596         0.7433         -2.14192         4.5878075           0.7705         0.74778         -2.94873         8.6950356           0.7642         0.75297         -1.46951         2.15946140           0.7694         0.7547         -1.91058         3.65031466           0.7345         0.75589         2.912185         8.48082246           0.7026         0.7537         7.173356         5.1.4570378           0.7161         0.75117         4.897361         23.9841418           0.6902         0.73588         6.618371         43.802841           0.6666         0.72658         8.9979         80.96220				2.311570703
0.7123         0.7115         -0.11231         0.01261403           0.7521         0.71832         -4.49142         20.1728896           0.7226         0.72073         -0.25879         0.06697107           0.7315         0.72487         -0.90636         0.82148265           0.7344         0.72658         -1.06481         1.1338305           0.7734         0.73093         -2.51667         6.33363348           0.7736         0.73801         -4.35329         18.951150           0.7596         0.74333         -2.14192         4.85878075           0.7642         0.75297         -1.46951         2.1594614           0.7694         0.7547         -1.91058         3.65031468           0.7345         0.755297         -1.46951         2.1594614           0.7694         0.7547         -1.91058         3.65031468           0.7026         0.7537         7.17335         5.1457935         5.145793           0.7161         0.75117         4.897361         23.9841418           0.7375         0.74940         1.68678         2.8452256           0.7142         0.74402         4.175301         17.4331387           0.6666         0.72658         8.9979<				
0.7521         0.71832         -4.49142         20.1728896           0.7226         0.72073         -0.25879         0.06697107           0.7315         0.72487         -0.90636         0.82148265           0.7344         0.72658         -1.06481         1.1338305           0.7734         0.73307         -5.16292         2.6.6557118           0.7736         0.73801         -4.35329         18.9511500           0.7596         0.74333         -2.14192         4.58780757           0.7642         0.75297         -1.46951         2.15946144           0.7694         0.7547         -1.91058         3.65031468           0.7345         0.75589         2.912185         8.48082244           0.7026         0.753         7.173356         51.4570378           0.7161         0.75117         4.897361         32.9844148           0.7375         0.74994         1.68678         2.4852256           0.7142         0.74402         4.175301         17.4331387           0.6902         0.73588         6.618371         43.802841           0.6515         0.71463         9.774194         9.534859           0.6516         0.7268         8.9979         80.9620				0.012614037
0.7226         0.72073         -0.25879         0.06697107           0.7315         0.72487         -0.90636         0.82148265           0.7344         0.72658         -1.06481         1.1338365           0.7734         0.73093         -2.51667         6.33363348           0.7734         0.73347         -5.16292         26.6557118           0.7795         0.74333         -2.14192         4.58780757           0.7705         0.74778         -2.94873         8.6950356           0.7642         0.75297         -1.46951         2.1594614           0.7694         0.7547         -1.91058         3.65031468           0.7345         0.75589         2.912185         8.48082244           0.7026         0.753         7.173356         51.4570378           0.7161         0.75117         4.897361         23.9841418           0.7375         0.74994         1.68678         2.84522562           0.7142         0.74002         4.175301         17.433138           0.66902         0.73588         6.618371         43.8028411           0.6513         0.69956         1.402771         196.77664           0.6599         0.68771         5.655247         31.9			-4.49142	20.17288966
0.7344 0.72658 -1.06481 1.1338305 0.7498 0.73093 -2.51667 6.33363348 0.7734 0.73347 -5.16292 26.6557118 0.7716 0.73801 -4.35329 18.9511500 0.7596 0.74333 -2.14192 4.58780757 0.7705 0.74778 -2.94873 8.6950356 0.7604 0.7527 -1.46951 2.15946140 0.7694 0.7547 -1.91058 3.65031468 0.7345 0.75589 2.912185 8.48082240 0.7026 0.753 7.173356 51.4570378 0.7016 0.75117 4.897361 23.9841418 0.7375 0.74994 1.68678 2.84522562 0.7142 0.74402 4.175301 17.4331387 0.6902 0.73588 6.618371 43.802841 0.6666 0.72658 8.9979 80.9622006 0.651 0.71463 9.774194 95.534859 0.6635 0.69956 14.02771 196.77664 0.6509 0.68771 5.655247 31.981813 0.66091 0.68117 1.803916 3.2541118 0.7021 0.68112 -2.98818 8.29220968 0.6654 0.6764 0.67715 0.110881 0.01229462 0.6736 0.66674 -0.0831 0.922757248 0.6736 0.66684 -0.96311 0.922757248 0.6736 0.66684 -0.96311 0.92757248 0.6736 0.66684 -0.96311 0.92757248 0.6736 0.68674 -1.01841 1.03715597 0.6844 0.66852 -2.32028 5.3837017 0.702 0.67362 -4.04274 15.3437066 0.6938 0.68165 -1.75123 0.666789 0.7094 0.69107 -2.58387 6.7540327 0.7094 0.69107 -2.58387 6.67540327 0.7094 0.69107 -2.58387 6.67540327 0.7094 0.69107 -2.58387 6.67540327 0.7094 0.69107 -2.58387 6.67540327 0.7094 0.69107 -2.58387 6.67540327 0.7079 0.69884 -0.91644 0.83986602 0.7315 0.7047 0.024035 0.00057768				0.066971079
0.7498         0.73093         -2.51667         6.33363348           0.7734         0.73307         -5.16292         2.6.6557118           0.7716         0.73801         -4.35329         18.9511500           0.7596         0.74333         -2.14192         4.58780757           0.7705         0.74778         -2.94873         8.6950356           0.7642         0.75297         -1.46951         2.15946144           0.7694         0.7547         -1.91058         8.690356           0.7345         0.75589         2.912185         8.48082246           0.7026         0.753         7.173356         51.4570378           0.7161         0.75117         4.897361         23.9841418           0.6375         0.74492         1.175301         17.4331387           0.6902         0.73588         6.618371         43.802841           0.6515         0.71463         9.774194         95.534859           0.6515         0.71463         9.774194         95.534859           0.6509         0.68717         5.655247         31.981818           0.6690         0.6817         5.655247         31.981818           0.6704         0.6741         1.037159         3.254111	0.7315	0.72487	-0.90636	0.821482651
0.7734         0.73347         -5.16292         26.6557118           0.7716         0.73801         -4.35329         18.9511500           0.7796         0.74333         -2.14192         4.85878075           0.7705         0.7478         -2.94873         8.6950356           0.7642         0.75297         -1.46951         2.15946140           0.7694         0.7547         -1.91058         3.65031466           0.7026         0.7537         -1.73356         51.4570378           0.7161         0.75117         4.897361         23.9841418           0.7375         0.74994         1.68678         2.8452256           0.7142         0.74002         4.175301         17.4333187           0.66902         0.73588         6.618371         43.802841           0.6505         0.71463         9.774194         95.534595           0.6513         0.69956         1.402771         196.77664           0.6509         0.68717         1.803916         3.2541118           0.7021         0.68117         1.803916         3.2541118           0.7021         0.68117         1.10881         0.01229462           0.6764         0.67715         0.110881         0.01229	0.7344	0.72658	-1.06481	1.13383059
0.7716         0.73801         -4.35329         18.9511500           0.7596         0.74381         -2.14192         4.85878075           0.7505         0.74778         -2.94873         8.6950356           0.7642         0.75297         -1.46951         2.15946144           0.7694         0.7547         -1.91058         3.65031468           0.7026         0.753         7.173356         51.4570378           0.7161         0.75117         4.897361         23.9841418           0.7375         0.74902         1.68678         2.84522562           0.7142         0.74402         4.175301         17.4331387           0.66902         0.73588         6.618371         43.8028411           0.6666         0.72658         8.9979         80.9622006           0.6511         0.71436         9.774194         9.5548595           0.6509         0.68717         1.655247         31.981813           0.6691         0.68117         1.803916         3.2541118           0.7021         0.68112         -2.98818         8.9920966           0.6764         0.67715         0.110881         0.01229462           0.6691         0.68117         1.10881         0.01229	0.7498	0.73093	-2.51667	6.333633487
0.7596         0.74333         -2.14192         4.58780757           0.7705         0.74778         -2.94873         8.6950352           0.7642         0.75297         -1.46951         2.15946140           0.7694         0.7547         -1.91058         3.65031468           0.7345         0.75589         2.912185         8.48082240           0.7026         0.7537         7.173356         51.4570378           0.7161         0.75117         4.897361         23.9841418           0.67375         0.74994         1.68678         2.84522562           0.7142         0.74402         4.175301         17.4331387           0.6902         0.73588         6.618371         43.802841           0.6666         0.72658         8.9979         80.9622006           0.6513         0.76463         9.774194         9.5534859           0.6509         0.68717         1.803916         3.2541118           0.06590         0.68717         1.803916         3.2541118           0.07021         0.68112         2.98818         8.92220968           0.6764         0.67735         2.10881         0.922292966           0.6749         0.6684         -0.96311         0.927	0.7734	0.73347	-5.16292	26.65571184
0.7705         0.74778         -2.94873         8.6950356           0.7642         0.75297         -1.46951         2.15946140           0.7694         0.7547         -1.91058         3.65031468           0.7345         0.75589         2.912185         8.48082244           0.7026         0.7537         7.173356         51.4570378           0.7161         0.75117         4.897361         23.9841418           0.67375         0.74994         1.68678         2.84522562           0.7142         0.74402         4.175301         17.4331387           0.6902         0.73588         6.618371         43.8028411           0.6566         0.72658         8.9979         80.962200           0.6515         0.71463         9.774194         95.534859           0.6135         0.66956         14.02771         196.77664           0.6509         0.68717         1.803916         3.2541118           0.7021         0.68112         -2.98818         3.92920968           0.6764         0.67715         0.110881         0.01229462           0.6749         0.6664         -0.96311         0.022757248           0.6736         0.66674         -1.01841         1.037	0.7716	0.73801	-4.35329	18.95115003
0.7642 0.75297 -1.46951 2.15946140 0.7694 0.7547 -1.91058 3.65031465 0.7045 0.75589 2.912185 8.48082246 0.7026 0.753 7.173356 51.4570378 0.7161 0.75117 4.897361 23.9841418 0.7375 0.74994 1.68678 2.8452256 0.7142 0.7402 4.175301 17.433138 0.6902 0.73588 6.618371 43.8028411 0.6666 0.72658 8.9979 80.9622006 0.651 0.71463 9.774194 95.5348595 0.6135 0.69956 14.02771 196.77664 0.6509 0.68717 5.655247 31.981813 0.6091 0.68117 1.803916 3.2541118 0.7021 0.68112 -2.98818 8.99220068 0.6764 0.67715 0.110881 0.01229462 0.6938 0.67233 -2.46192 6.06103968 0.6749 0.6684 -0.96311 0.92757248 0.6736 0.66674 -1.01841 1.03715597 0.6844 0.66852 -2.32028 5.38370177 0.702 0.67362 -4.04274 16.3437066 0.6938 0.68165 -1.75123 3.0667894 0.7049 0.6910 -2.51986 6.34971352 0.7049 0.6910 -2.51986 6.34971352 0.7049 0.6910 -2.51986 6.34971352 0.7049 0.6984 -0.91644 0.38386602 0.7049 0.6984 -0.91644 0.38386602 0.7049 0.6984 -0.91644 0.38386602 0.7049 0.6984 -0.91644 0.38386602 0.7049 0.6984 -0.91644 0.38386602 0.7049 0.6984 -0.91644 0.38386602 0.7049 0.6984 -0.91644 0.38386602 0.7049 0.6984 -0.91644 0.38386602 0.7049 0.6984 -0.91644 0.38386602 0.7049 0.6984 -0.91644 0.38386602 0.7073 0.70707 0.024035 0.00057768 0.7019 0.71301 -0.8331 0.69405815	0.7596	0.74333	-2.14192	4.587807571
0.7694         0.7547         -1.91058         3.65031468           0.7345         0.75589         2.912185         8.48082244           0.7026         0.7537         7.173356         5.14570378           0.7161         0.75117         4.897361         23.9841418           0.7375         0.74494         1.68678         2.84522562           0.7142         0.74402         4.175301         17.4331381           0.6690         0.73588         6.618371         13.8028411           0.6515         0.71463         9.774194         95.5348595           0.6515         0.74163         9.774194         95.5348595           0.6509         0.68771         5.655247         196.77664           0.6691         0.68112         -2.98818         8.92920968           0.6764         0.6715         0.110881         0.0122946           0.6764         0.67715         0.10881         0.0122946           0.6764         0.67715         0.10881         0.0122946           0.6749         0.6684         -096311         0.92757248           0.6938         0.68105         -1.75123         3.066789           0.7048         0.68704         -2.51986         6.34971352	0.7705	0.74778	-2.94873	8.69503567
0.7345 0.75589 2.912185 8.48082240 0.7026 0.753 7.173356 51.4570378 0.7161 0.7517 4.897361 23.9841418 0.7375 0.74994 1.68678 2.84522562 0.7142 0.74402 4.175301 17.4331387 0.6902 0.73588 6.618371 43.8028411 0.6666 0.72658 8.9979 80.9622006 0.651 0.71463 9.774194 95.5348592 0.6651 0.71463 9.774194 95.5348592 0.6650 0.68771 5.655247 31.981812 0.7021 0.68117 1.803916 3.2541118 0.7021 0.68112 -2.98318 8.92920968 0.6674 0.6775 0.110881 0.01229462 0.6764 0.67715 0.110881 0.01229462 0.6736 0.66674 -1.01841 1.03715597 0.6844 0.66852 -2.32028 5.38370177 0.702 0.67362 -4.04274 13.347506 0.6938 0.6815 -1.75123 3.0667894 0.7048 0.68704 -2.51986 6.34971352 0.7094 0.69107 -2.58387 6.67640327 0.7094 0.69107 -2.58387 6.67640327 0.7094 0.69107 -2.58387 6.67640327 0.7094 0.69107 -2.58387 6.67640327 0.7094 0.69107 -2.58387 6.67640327 0.7094 0.69107 -2.58387 6.67640327 0.7094 0.69107 -2.48097 0.15521131 0.7272 0.69868 -4.16992 17.3840376 0.7049 0.69844 -0.91644 0.83986602 0.7315 0.7047 0.024035 14.0304775 0.7728 0.77147 0.024035 0.00057768	0.7642	0.75297	-1.46951	2.159461402
0.7026 0.753 7.173356 51.4570378 0.7161 0.75117 4.897361 23.9841418 0.7375 0.74994 1.68678 2.84522562 0.7142 0.74402 4.175301 17.4331387 0.6902 0.73588 6.618371 43.8028411 0.66666 0.72658 8.9979 80.962200 0.651 0.71463 9.774194 95.5348595 0.6135 0.69956 1.402771 196.77664 0.6509 0.68771 5.655247 31.981813 0.7021 0.68112 2.298818 8.92920968 0.6694 0.67715 0.110881 0.01229462 0.6693 0.67233 2.46192 6.06103968 0.6749 0.6684 0.96311 0.92757248 0.6736 0.66674 -1.01841 1.03715597 0.6844 0.66852 -2.32028 5.38370177 0.702 0.67362 -4.04274 16.3437066 0.6938 0.68165 -1.75123 3.0667894 0.7048 0.68704 2.51986 6.34971352 0.7049 0.6910 -2.58387 6.67640327 0.7049 0.6910 -2.58387 6.67640327 0.7049 0.6984 -2.40097 6.15521131 0.7272 0.69888 -2.48097 6.15521131 0.7272 0.69888 -4.16942 17.3840376 0.7049 0.69844 -3.74573 14.0304775 0.7070 0.70707 0.024035 0.00057768 0.7019 0.71301 -0.8331 0.69405815				3.650314685
0.7161 0.75117 4.897361 23.9841418 0.7375 0.74994 1.68678 2.84522562 0.7142 0.74402 4.175301 17.4331387 0.6902 0.73588 6.618371 43.8028413 0.66966 0.72658 8.9979 80.9622006 0.651 0.71463 9.774194 95.5345595 0.6135 0.69956 14.07711 19.677664 0.6509 0.68717 5.655247 31.981813 0.7021 0.68112 -2.98818 8.99290966 0.6764 0.67715 0.110881 0.01229462 0.6893 0.67233 -2.46192 6.06103968 0.6749 0.6684 -0.96311 0.92757248 0.6736 0.66674 -1.01841 1.037527524 0.6736 0.66674 -1.01841 1.03752754 0.702 0.67362 -4.04274 16.3437066 0.6938 0.68165 -1.75123 3.066784 0.7049 0.6916 -2.51986 6.34971352 0.7049 0.6916 -2.48097 6.15521131 0.7272 0.69688 -4.16942 17.38403766 0.7315 0.7041 -3.74573 14.0304775 0.7073 0.70749 0.02403 17.38986602 0.7315 0.7041 -3.74573 14.0304775 0.7073 0.70749 0.02403 1.55995 2.52699144 0.7190 0.71301 -0.8331 0.69405815				8.480822406
0.7375         0.74994         1.68678         2.84522562           0.7142         0.74402         4.175301         1.7.4331387           0.6690         0.73588         6.618371         43.8028411           0.6666         0.72658         8.9979         80.9622006           0.651         0.71463         9.774194         95.5348595           0.6520         0.68771         5.655247         1196.77664           0.6691         0.68112         -2.98818         8.92920968           0.6764         0.67715         0.110881         0.01229462           0.66393         0.6723         -2.46192         6.06103968           0.6749         0.6684         -0.96311         0.92757244           0.6336         0.66674         -1.01841         1.03715597           0.6938         0.68105         -1.75123         3.066789           0.7044         0.68904         -2.51986         6.34971352           0.7094         0.69107         -2.58387         6.67640327           0.7094         0.69108         -2.48097         6.15521131           0.7272         0.69688         -0.91644         0.83986602           0.7073         0.70747         0.024035         0.				51.45703782
0.7142 0.74402 4.175301 17.4331387 0.6902 0.73588 6.618371 43.8028411 0.6666 0.72658 8.9979 80.9620006 0.651 0.71463 9.774194 95.5348592 0.6635 0.69956 14.02771 196.77664 0.6509 0.68771 5.655247 31.981813 0.7021 0.68112 -2.98318 8.92920968 0.6764 0.67715 0.110881 0.01229462 0.6693 0.67233 -2.46192 6.06103936 0.6749 0.6684 -0.96311 0.92757248 0.6736 0.66674 -1.01841 1.03715597 0.6844 0.66852 -2.32028 5.38370177 0.702 0.67362 -4.04274 15.3437066 0.6938 0.68165 -1.75123 3.0667894 0.7048 0.68704 -2.51986 6.34971352 0.7094 0.69107 -2.58387 6.67640327 0.7094 0.69107 -2.58387 6.67640327 0.7094 0.69107 -2.5487 6.67540327 0.7094 0.69107 -2.5487 6.67540327 0.7094 0.69107 -2.5487 6.67540327 0.7094 0.69107 -2.5487 6.67540327 0.7094 0.69107 -2.5487 6.67540327 0.7094 0.69107 -2.5487 6.67540327 0.7094 0.69107 -2.5487 6.67540327 0.7094 0.69107 -2.5487 6.67540327 0.7094 0.69107 -2.5487 6.67540327 0.7094 0.69107 -2.5487 6.67540327 0.7079 0.69844 -0.91644 0.83986602 0.7315 0.7041 -3.74573 14.0304775 0.7722 0.77074 0.024035 0.00057768 0.71131 1.158965 2.55699144 0.7110 0.71301 -0.8331 0.69405815				
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0.6666         0.72658         8.9979         80.9622006           0.651         0.71463         9.774194         95.5348592           0.6135         0.69956         14.02771         196.7764           0.6509         0.68771         5.655247         31.981813           0.6691         0.68117         1.803916         3.2541118           0.6764         0.6711         2.98818         8.9920968           0.6793         0.67233         -2.46192         6.06103968           0.6749         0.6684         -0.96311         0.92757246           0.6364         0.66674         -1.01841         1.03715597           0.6702         0.67362         -4.04274         16.3437066           0.6938         0.68155         -1.75123         3.0667849           0.7049         0.68974         -2.51986         6.34971352           0.7049         0.69107         -2.58387         6.67640327           0.7094         0.69107         -2.58387         6.67640327           0.7049         0.69844         -0.91644         0.338986602           0.7315         0.7041         -3.74573         14.0304775           0.70728         0.70737         0.70747         0.024035				
0.651         0.71463         9.774194         95.5348595           0.6135         0.69956         14.02771         196.77664           0.6509         0.68771         5.655247         31.981813           0.6691         0.68112         1.803916         3.2541118           0.07021         0.68112         -2.98818         8.92920968           0.6764         0.67715         0.110881         0.01229462           0.6749         0.6684         -0.96311         0.92757248           0.6736         0.66674         -1.01841         1.03715597           0.702         0.67362         -4.04274         16.3437066           0.6938         0.68165         -1.75123         3.0667894           0.7048         0.68704         -2.51986         6.34971352           0.7094         0.69107         -2.48097         6.15521131           0.7272         0.69688         -4.16942         17.3840376           0.7049         0.69444         -0.91644         0.83986602           0.7073         0.70747         0.024035         14.0304775           0.7228         0.71131         -1.58965         2.52699144           0.7190         0.71301         -0.8331         0.6				
0.6135 0.69956 14.02771 196.77664 0.6509 0.68771 5.655247 31.981813 0.6691 0.68117 1.803916 3.2541118 0.7021 0.68112 -2.98818 8.92920968 0.66764 0.67715 0.110881 0.01229462 0.6893 0.67233 -2.46192 6.06103968 0.6749 0.6664 -0.96311 0.92757248 0.6736 0.66674 -1.01841 1.03715593 0.6844 0.66852 -2.32028 5.38370177 0.702 0.67362 -4.04274 16.3437066 0.6938 0.68165 -1.75123 3.0667394 0.7048 0.68704 -2.51986 6.34971352 0.7094 0.69107 -2.58387 6.67640327 0.7094 0.69107 -2.58387 6.67640327 0.7094 0.6984 -4.0964 1.75123 3.0667394 0.7019 0.69844 -0.91644 0.83986602 0.7315 0.7047 0.02403 0.00057768 0.7722 0.7724 0.02403 0.00057768 0.7725 0.7727 0.02403 0.00057768 0.7727 0.7728 0.71131 1.158965 2.52699144 0.7119 0.71301 -0.8331 0.69405815				
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0.6749         0.6684         -0.96311         0.92757248           0.6736         0.66674         -1.01841         1.03715597           0.6844         0.66852         -2.32028         5.38370177           0.702         0.67362         -4.04274         16.3437066           0.6938         0.68165         -1.75123         3.0667894           0.7048         0.68107         -2.51986         6.34971352           0.7094         0.69107         -2.48097         6.15521131           0.7272         0.69688         -4.16942         17.3840376           0.7049         0.69844         -0.91644         0.83986602           0.7315         0.7041         -3.74573         14.0304775           0.7728         0.71131         -1.58965         2.52699142           0.719         0.71301         -0.8331         0.69405815				6.061039686
0.6736 0.66674 -1.01841 1.03715597 0.6844 0.66852 -2.32028 5.38370177 0.702 0.67362 -4.04274 16.3437066 0.6938 0.68165 -1.75123 3.0667894 0.7048 0.68704 -2.51986 6.34971352 0.7094 0.69107 -2.58387 6.67640327 0.7094 0.6918 -2.48097 6.15521131 0.7272 0.69568 -4.16942 17.3840376 0.7049 0.69844 -0.91644 0.83986602 0.7315 0.7041 -3.74573 14.0304775 0.7073 0.70747 0.024035 0.00057768 0.7113 1.158965 2.55699144 0.7119 0.71301 -0.8331 0.69405815				0.927572484
0.6844         0.66852         -2.32028         5.38370177           0.702         0.67362         -4.04274         16.3437066           0.6938         0.68165         -1.75123         3.0667894           0.7048         0.68704         -2.51986         6.34971352           0.7094         0.69107         -2.58387         6.67640327           0.7094         0.6918         -2.48097         6.15521131           0.7272         0.69688         -4.16942         17.3840376           0.7049         0.69844         -0.91644         0.83886602           0.7315         0.7074         0.024035         0.00057768           0.7073         0.70747         0.024035         0.00057768           0.7128         0.71131         -1.58965         2.52699142           0.719         0.71301         -0.8331         0.69405815				1.037155977
0.702         0.67362         -4.04274         16.3437066           0.6938         0.68165         -1.75123         3.0667894           0.7048         0.68704         -2.51986         6.34971352           0.7094         0.69107         -2.58387         6.67640327           0.7094         0.6918         -2.48097         6.15521131           0.7272         0.69688         -4.16942         17.3840376           0.7049         0.69844         -0.91644         0.83986602           0.7315         0.7041         -3.74573         14.0304776           0.7073         0.70747         0.024035         0.00057768           0.7128         0.71131         -1.58965         2.52699142           0.719         0.71301         -0.8331         0.69405815				5.383701774
0.6938         0.68165         -1.75123         3.0667894           0.7048         0.68704         -2.51986         6.34971352           0.7094         0.69107         -2.58387         6.67640327           0.7094         0.6918         -2.48097         6.15521131           0.7272         0.69688         -4.16942         17.3840376           0.7049         0.69844         -0.91644         0.83986602           0.7315         0.7041         -3.74573         14.0304775           0.7073         0.70747         0.024035         0.00057768           0.7128         0.71131         -1.58965         2.52699142           0.719         0.71301         -0.8331         0.69405815	0.702	0.67362		16.34370663
0.7048         0.68704         -2.51986         6.34971352           0.7094         0.69107         -2.58387         6.67640327           0.7094         0.6918         -2.48097         6.15521131           0.7272         0.69688         -4.16942         17.3840376           0.7049         0.69844         -0.91644         0.83986602           0.7315         0.7041         -3.74573         14.0304775           0.7073         0.70747         0.024035         0.00057768           0.7128         0.71131         -1.58965         2.52699142           0.719         0.71301         -0.8331         0.69405815				3.06678948
0.7094         0.6918         -2.48097         6.15521131           0.7272         0.69688         -4.16942         17.3840376           0.7049         0.69844         -0.91644         0.83986602           0.7315         0.7041         -3.74573         14.0304775           0.7073         0.70747         0.024035         0.00057768           0.7228         0.71131         -1.58965         2.52699142           0.719         0.71301         -0.8331         0.69405815	0.7048	0.68704		6.349713526
0.7094         0.6918         -2.48097         6.15521131           0.7272         0.69688         -4.16942         17.3840376           0.7049         0.69844         -0.91644         0.83986602           0.7315         0.7041         -3.74573         14.0304775           0.7073         0.70747         0.024035         0.00057768           0.7228         0.71131         -1.58965         2.52699142           0.719         0.71301         -0.8331         0.69405815	0.7094	0.69107	-2.58387	6.676403277
0.7049 0.69844 -0.91644 0.83986602 0.7315 0.7041 -3.74573 14.0304775 0.7073 0.70747 0.024035 0.00057768 0.7128 0.71131 -1.89965 2.52699145 0.719 0.71301 -0.8331 0.69405815	0.7094	0.6918		6.155211316
0.7315         0.7041         -3.74573         14.0304775           0.7073         0.70747         0.024035         0.00057768           0.7228         0.71131         -1.58965         2.52699143           0.719         0.71301         -0.8331         0.69405815	0.7272	0.69688	-4.16942	17.38403763
0.7073         0.70747         0.024035         0.00057768           0.7228         0.71131         -1.58965         2.52699143           0.719         0.71301         -0.8331         0.69405815	0.7049	0.69844	-0.91644	0.839866028
0.7228         0.71131         -1.58965         2.52699143           0.719         0.71301         -0.8331         0.69405815	0.7315	0.7041	-3.74573	14.03047792
0.719 0.71301 -0.8331 0.69405815	0.7073	0.70747	0.024035	0.000577684
	0.7228	0.71131	-1.58965	2.526991433
deviation 4.25379232	0.719	0.71301		0.694058159
uchation 1/255/5/252			deviation	4.253792325

USD/JPY Quantitative Analysis Appendix 4- Random Walk

0.009485 - 0.51043 0.26053517 0.009483 - 0.84496 0.7139512 0.009584 - 0.24579 0.06041408 0.009584 - 1.03058 1.06229221 0.009587 1.446345 2.09191368 0.009587 1.446345 2.09191368 0.009589 1.675911 2.80667680 0.009392 4.004734 16.0378911 0.00903 1.41505 2.00237402 0.00916 0.281209 0.70970767 0.00918 0.35743 0.12775915 0.0090897 2.13289 1.72367660 0.00918 0.35743 0.12775915 0.009872 2.7426457 0.008972 2.747075 6.10464233 0.008755 -0.83612 0.69910022 0.00829 1.624535 2.63911374 0.008768 0.03552 0.00126880 0.008685 -0.05384 0.0028987 0.008689 5.79934 0.35768342 0.00711 0.72949 0.53215310 0.007768 5.476526 2.99901488 0.007518 0.75202 0.50857204 0.007496 4.414316 19.4861893 0.00719 3.868023 19.481930 0.00752 -7.64975 \$8.5186477 0.00728 -4.54939 2.06969272 0.007627 -0.76272 0.55173923 0.007627 -0.76272 0.55173923 0.007532 2.72550 7.41748072 0.007332 2.009735 4.0390344 0.007332 2.72550 7.41748072 0.007332 2.009735 4.0390344 0.007383 2.72550 7.41748072 0.007332 2.009735 4.0390344 0.000738 3.156327 1.377147383		Random 1	Walk
0.00845 - 0.71291         0.5082397           0.009090         2.50952         2.5985657           0.008789 - 0.82437         0.67957845           0.008817 - 3.3475         0.11205530           0.009122 - 0.71513         0.51140961           0.00817 - 3.33475         1.1205530           0.00817 - 0.33941         0.15120961           0.00918 - 0.33941         0.15120961           0.00919 - 0.85362         0.72866603           0.00918 - 0.85362         0.7286603           0.00928 - 0.413415         0.17091164           0.00919 - 0.85302         0.7286603           0.00928 - 0.03794         0.001439           0.00928 - 0.03794         0.014397           0.00928 - 0.03794         0.014397           0.00928 - 0.03794         0.014397           0.00927 - 0.0351         0.49493316           0.00913 - 0.0755         0.02840           0.00928 - 0.62791         0.3942758           0.00939 - 0.14145         0.020089           0.00930 - 0.14145         0.020089           0.00931 - 0.14159         0.02172639           0.00948 - 0.25191         0.0861408           0.00948 - 0.25479         0.0604108           0.00954 - 0.24579         0.06041408	Forecast		
0.009009         2.509952         6.29985657           0.008789         0.282437         0.67957884           0.008892         0.50157         0.51557274           0.008127         -3.33475         11.1205530           0.009127         2.319792         5.38143567           0.008979         -0.33941         0.11520017           0.008976         -1.88862         3.56687802           0.009979         -0.33941         0.11520017           0.009979         -0.35862         0.72866603           0.009187         -2.15871         4.66002358           0.009189         -1.45815         0.17091164           0.009293         1.495309         2.23594977           0.009244         -0.03794         0.0014397           0.009255         1.326642         1.75997933           0.009216         -0.32815         0.1097250           0.009237         -0.10957         0.02885419           0.009248         -0.62791         0.3942758           0.009329         -0.62791         0.3942758           0.009320         -0.81154         0.14527815           0.009248         -0.62791         0.0383014           0.009259         -0.62791         <			
0.008789 - 0.82437 0 6.7957845         0.008862 0.50157 0.25157274           0.008817 - 3.33475 11.1205530         0.009122 - 0.71513 0.51140961           0.009127 - 0.37941 0.11520017         0.009012 0.370296 0.13711937           0.00801 0.370296 0.13711937         0.008976 - 0.18862 0.7286603           0.009149 - 0.85562 0.7286603         0.00928 0.13711937           0.00919 - 0.85562 0.7286603         0.00928 0.13711937           0.00919 - 1.45509 0.23594977         0.00919 0.03794 0.0014397           0.00929 1.495309 0.23594977         0.00924 0.03794 0.0014397           0.00921 0.33125 0.10972503         0.009137 0.70351 0.49493316           0.00921 0.03312 0.10972503         0.009210 0.33125 0.10972503           0.009238 0.16897 0.0285419         0.000268 0.14416 0.02000881           0.009329 0.14145 0.02000881         0.009238 0.0583154 0.145236           0.009439 0.147399 0.0017263         0.009449 0.147399 0.017263           0.009440 0.147399 0.0017263         0.009489 0.147399 0.0017263           0.009581 - 1.0366 0.009381 1.03668         0.009584 1.05951 1.280667680           0.009582 1.05950 0.009381 1.05067680         0.009581 1.05951 0.00937867           0.009581 1.05951 0.009380 0.009381 1.05067680         0.009581 1.05951 0.00937861           0.009582 1.05050 0.009381 0.009381 0.009381 0.009381 0.009381 0.009381 0.009381 0.009381 0.009381 0.009381 0.009381 0.009381 0.009381 0.009381 0.009			
0.008862         0.50157         0.25157274           0.008817         3.33475         1.1205530           0.009122         0.71513         0.51140961           0.009187         2.319792         5.38143567           0.008979         0.33941         0.1520017           0.009149         0.85362         0.72866633           0.009149         0.85362         0.7286663           0.009393         1.495309         2.23594977           0.009254         0.03794         0.0014397           0.009253         1.326642         1.75997933           0.009204         -0.03794         0.0014397           0.009235         1.326642         1.75997933           0.009204         -0.03125         0.10972503           0.009218         -0.15897         0.0285419           0.009200         -0.33125         0.10972503           0.009218         0.31514         0.4527815           0.009300         -0.14145         0.0200891           0.009319         0.31154         0.14527815           0.00943         -0.5191         3.96784182           0.00943         -0.5191         3.065324           0.00943         -0.5193         0.6605321			
0.008817         -3.33475         11.1205530           0.009187         2.319792         5.38143567           0.009187         2.319792         5.38143567           0.008979         -0.33941         0.11520017           0.008979         -1.83862         3.5668780           0.009187         -1.88862         3.5668780           0.009149         -0.85362         0.72866603           0.009193         -1.495309         2.23994977           0.00924         -0.03794         -0.0014397           0.009153         1.326642         1.75997933           0.009137         -0.70351         0.49493316           0.009248         -0.62791         0.3942758           0.009320         -0.18397         0.02885419           0.009248         -0.62791         0.3942758           0.009319         -3.81154         0.14527815           0.009248         -0.62199         0.0200891           0.009319         -3.81154         0.14527815           0.009439         -1.49194         -3.96784182           0.009440         -1.47599         0.02172639           0.009459         -1.67591         2.8066760           0.009489         -1.44545			
0.001222         -0.71513         0.51140961           0.009187         2.319722         5.38143567           0.008979         -0.38941         0.11520017           0.00801         0.370296         0.18711937           0.008976         -0.88862         0.75886603           0.009149         -0.85562         0.72866603           0.00928         0.413415         0.17091164           0.009393         1.495509         2.23594977           0.009254         -0.03794         0.0014397           0.009258         1.305642         1.759913           0.009137         -0.03512         0.0997380           0.009137         -0.01897         0.028540           0.009228         -0.62791         0.3942758           0.009329         -0.14145         0.02000881           0.009319         -0.14897         0.028540           0.009320         -0.14145         0.0200881           0.009430         -0.147399         0.0217361           0.009440         -0.147399         0.0227402           0.009540         -0.24579         0.06041408           0.009540         -0.24579         0.06041408           0.009581         -0.3566         0.02			
0.009187         2.319792         5.38143567           0.008079         0.33029         0.1370290           0.009218         0.370296         0.13711937           0.009219         0.1352037         3.56687602           0.009149         0.413415         0.17091164           0.009199         2.15871         4.66002358           0.009328         1.035092         2.23594977           0.009254         0.03794         0.0014397           0.009129         1.070531         0.4949316           0.009120         -0.03512         0.1097250           0.009212         -0.16897         0.02885419           0.009218         -0.31125         0.1097250           0.009329         -0.14145         0.0200081           0.009319         0.381154         0.02000891           0.009319         0.381154         0.02000891           0.009319         0.381154         0.0200891           0.009324         0.51990         0.0330049           0.00949         0.14145         0.0200891           0.00949         0.14149         0.7139512           0.00949         0.14149         0.7139512           0.00949         0.14149         0.7139512 <td></td> <td></td> <td></td>			
0.008979         -0.33941         0.11520017           0.008976         1.83862         3.56687802           0.009149         -0.85362         0.72866603           0.009149         -0.85362         0.72866603           0.009192         -2.15871         4.66002358           0.009393         1.495309         2.3594977           0.00924         -0.03794         -0.0014397           0.009273         -0.70351         0.49493316           0.009210         -0.33125         0.1097250           0.009221         -0.53125         0.109207           0.009232         0.16987         0.02885419           0.009326         -0.62791         0.3942758           0.009327         0.16987         0.02885419           0.009328         -0.52190         0.920284           0.009319         0.381154         0.14527815           0.00948         0.147399         0.02172639           0.00949         0.147399         0.02172639           0.00949         0.147399         0.02172639           0.00948         0.147399         0.02172639           0.00948         0.1484345         0.091318           0.009549         1.675911         2.806676			
0.00901         0.370296         0.13711937           0.008976         -1.88862         3.56687802           0.009149         -0.85362         0.728266603           0.009391         -1.5871         4.6600238           0.009392         1.45309         2.32594977           0.009328         4.03642         1.75997933           0.009127         -0.03794         0.004387           0.009218         -0.3642         1.75997933           0.009212         -0.14145         0.02008811           0.009213         -0.62791         0.3942758           0.009324         -0.2719         0.3494758           0.009319         0.31154         0.14527815           0.009328         -0.21596         0.0330049           0.009429         1.23159         0.06330049           0.009430         -0.5193         0.26053517           0.009430         -0.410399         0.01272639           0.009430         -0.44039         0.02127639           0.009481         -0.440394         0.06253517           0.009582         -0.24579         0.060418           0.009583         -0.4579         0.06418           0.009594         -0.45791         0.60418 </td <td></td> <td></td> <td></td>			
0.008976         -1.88862         3.56687802           0.009149         -0.85562         0.7286603           0.009128         0.413415         0.17091164           0.009199         -2.15871         4.66002358           0.009393         1.4953036         2.3594977           0.009258         0.03794         0.001937           0.009137         -0.03125         0.19972503           0.009213         -0.38125         0.10972503           0.009213         -0.16897         0.02885419           0.009248         -0.62791         0.384278           0.009306         -0.14145         0.0200089           0.009318         -0.14159         0.06330049           0.00943         -0.15199         0.0578418           0.00943         -0.147399         0.02172639           0.00943         -0.147399         0.02172639           0.00943         -0.147399         0.02172639           0.00943         -0.147399         0.02172639           0.00943         -0.147399         0.02172639           0.00958         -0.24579         0.06041408           0.00958         -0.24579         0.0614108           0.00958         -1.46545         2.09			
0.009149         0.55362         0.72866603           0.009128         0.413415         0.17091164           0.00919         2.15871         4.66002358           0.009393         1.495309         2.23594977           0.009254         1.326642         1.75997933           0.009137         0.70351         0.49493316           0.009201         -0.31255         0.1097250           0.009323         0.16987         0.02885419           0.009304         0.62791         0.3942758           0.009305         -0.811545         0.02000891           0.009319         0.381154         0.14527815           0.009240         0.251596         0.6330049           0.009419         0.147399         0.0217263           0.009439         0.147399         0.0217263           0.009439         0.147399         0.0217263           0.009489         0.147399         0.0217263           0.009587         1.465454         2.09191368           0.009587         1.465454         2.09191368           0.009587         1.675911         2.8067680           0.00918         1.573821         1.62268387           0.00918         1.573822         1.6226			
0.009228         0.413415         0.17091164           0.009391         2.15871         4.6600238           0.009391         4.95309         2.3259497           0.009254         0.03794         0.0014397           0.009127         0.70351         0.49493316           0.009201         -0.33125         0.19972503           0.009212         -0.6387         0.02885419           0.009328         -0.62791         0.3942758           0.009309         0.31154         0.16200881           0.009319         0.381154         0.16330049           0.009428         0.25199         0.06330049           0.009430         0.31159         0.16330049           0.009430         0.51990         0.739512           0.009430         0.51990         0.739512           0.009430         0.51990         0.739512           0.009580         0.245799         0.060140           0.009581         0.404734         16.0378911           0.009582         0.245799         0.060140           0.009140         1.508067         2.27426457           0.009141         1.508067         2.27426457           0.009152         0.21079         0.060140			
0.00919         -2.15871         4.66002358           0.009393         1.495309         2.23594977           0.009254         -0.03794         0.0014397           0.009218         1.326642         1.75997933           0.009210         -0.33125         0.10972503           0.009212         -0.16897         0.02885419           0.009248         -0.6217         0.0384278           0.009329         -0.14145         0.00000891           0.009249         0.21199         0.95784182           0.009240         0.21599         0.06330049           0.009430         -1.47399         0.02172639           0.009431         -0.84696         0.7139512           0.009542         -1.44504         0.060041408           0.009543         -0.45790         0.06041408           0.009549         1.445045         2.09191368           0.009580         1.405045         2.09191368           0.009581         1.456045         2.09191368           0.009582         1.445045         2.09191368           0.009583         1.41504         2.0237402           0.009184         1.58067         2.27426457           0.009589         1.41505         2			
0.009393         1.495300         2.23594977           0.009254         -0.3794         0.001437           0.009258         1.326642         1.75997933           0.009137         -0.70351         0.49493316           0.009232         -0.16897         0.02885419           0.009323         -0.16897         0.02885419           0.009348         -0.62791         0.3942758           0.009349         0.831154         0.14527815           0.009240         0.251596         0.6330049           0.009449         0.147399         0.02172639           0.009483         -0.14049         0.7139512           0.009484         0.24579         0.06041408           0.009485         -0.14049         0.07127639           0.009489         1.47599         0.02172639           0.009549         1.675911         2.8066768           0.009589         1.675911         2.8066768           0.009599         1.675911         2.8066768           0.00918         1.27322         1.0229221           0.00918         1.273221         1.6078931           0.00918         1.27126475         1.0464233           0.008271         6.705752         1.04642			
0.009254         0.03794         0.014397           0.009155         1.36642         1.75997933           0.009127         0.70351         0.49493316           0.009201         -0.33125         0.10972503           0.009212         -0.52971         0.3942758           0.009328         -0.62791         0.3942758           0.009319         0.381154         0.14527015           0.009329         0.251596         0.6330049           0.009429         0.21599         0.022638           0.009430         -0.514799         0.02172639           0.009430         -0.54799         0.0614108           0.009564         -0.91396         0.052520           0.009585         -0.3086         0.0522921           0.009580         1.03086         1.0622921           0.009581         -0.9139         0.0237402           0.009592         -0.24579         0.06041408           0.009581         -0.515911         2.80675911           0.009592         -0.21590         0.093786           0.009130         -0.51209         0.093786           0.009131         -0.53029         0.90797867           0.009132         -0.53129         0.09797867 <td></td> <td></td> <td></td>			
0.009258         1.326642         1.75997933           0.009137         -0.03312         0.169937         0.02885419           0.009201         -0.33125         0.10972503         0.002885419           0.009248         -0.62791         0.0384278         0.02885419           0.009306         -0.14145         0.00200891         0.06330049           0.009249         0.215959         0.06330049         0.0172639           0.009430         -0.147399         0.02172639         0.00172639           0.009430         -0.84969         0.7139512         0.00172639           0.009581         -0.45799         0.06041408         0.002924           0.009582         -1.445345         2.09191368         0.00237402           0.009583         -1.415045         2.00237402         0.0018         1.0029241           0.009584         -1.45504         2.079707867         0.00237402         0.0018         1.60378911         0.00237402         0.001936         0.0237402         0.001936         0.0237402         0.0001936         0.127367660         0.0037867867         0.0037867         0.0037867         0.0037867         0.0037867         0.0037867         0.0037867         0.0037867         0.0037867         0.0037867         0.00464233			
0.00137         -0.70351         0.49493316           0.009213         -0.19325         0.1097250           0.009232         -0.16987         0.02885419           0.009248         -0.62791         0.3942758           0.009309         -0.81145         0.14527815           0.009240         0.831154         0.14527815           0.009240         0.251596         0.6330049           0.009439         0.147399         0.02172639           0.009439         0.147399         0.02172639           0.009439         0.147399         0.02172639           0.009489         0.24579         0.06041408           0.009549         1.675911         2.80667680           0.009589         1.675911         2.80667680           0.009589         1.675911         2.80667680           0.009591         1.675911         2.80667680           0.00918         1.575911         2.80667680           0.00918         1.575911         2.80667680           0.00918         1.51289         1.72367660           0.00918         1.51289         1.22654867           0.008592         1.61263887         0.6291318           0.008681         0.39362         0.			
0.009201         0.33125         0.10972503           0.009248         0.0285419         0.0285419           0.009248         0.62791         0.3942758           0.009305         0.14145         0.02000891           0.009324         0.251596         0.66330049           0.009451         -159194         3.96784182           0.009449         0.147399         0.02172639           0.009564         -0.24579         0.0604108           0.009568         -0.24579         0.0604108           0.009578         1.03068         1.0622921           0.009589         1.41505         2.00237402           0.009591         1.657911         2.0866768           0.009592         1.602792         2.00237402           0.009599         -1.51209         0.07907867           0.00910         2.37344         1.7256766           0.00913         1.508067         2.27426457           0.00913         1.508067         2.27426457           0.00918         0.35734         0.1277591           0.00918         0.35734         0.1277591           0.00859         1.53128         1.6228387           0.00859         1.624535         2.6991134			
0.009323         0.16987         0.02885419           0.009248         -0.62791         0.3942758           0.009306         -0.14145         0.00000891           0.009249         0.215956         0.06330049           0.009261         1.959194         3.96784182           0.009430         0.2172639         0.02172639           0.009435         -0.51043         0.26055317           0.009438         -0.84966         0.7139512           0.009588         -0.24579         0.06041408           0.009589         -1.445045         2.09191368           0.009589         1.445045         2.09191368           0.009589         1.415045         2.0237402           0.009180         1.415045         2.02037402           0.009181         1.580677         2.27426457           0.009182         1.501209         0.07907867           0.009183         1.53228         0.127367660           0.009185         2.470757         6.10464233           0.008572         2.470757         6.10464233           0.008581         0.035842         0.00126880           0.008582         0.053842         0.00126880           0.008688         0.035842			
0.009248         0.62791         0.3942758           0.009309         -0.14145         0.02000881           0.009319         3.81154         0.14527815           0.009240         0.251596         0.06330049           0.009449         0.147399         0.02172639           0.009435         -0.51043         0.26053517           0.009549         -0.24579         0.06041408           0.009589         1.03068         1.06229221           0.009589         1.675911         2.80867680           0.009592         1.675911         2.80867680           0.009593         1.675911         2.0086780           0.009594         1.675911         2.80867680           0.009599         1.91209         0.00937867           0.00910         0.281200         0.00970867           0.00913         0.15120         0.00970867           0.00914         0.357434         0.12775915           0.008592         1.012891         1.2263867           0.008755         -0.35820         0.001680           0.008688         0.03582         0.012816           0.008689         0.59949         4.35768342           0.007711         0.72249         0.5321531			
0.009300         -0.14145         0.02000891           0.009314         0.251596         0.66330049           0.009240         0.251596         0.66330049           0.009435         -0.51939         3.96784182           0.009435         -0.51043         0.26053517           0.009548         -0.84496         0.7139512           0.009548         -0.84496         0.7139512           0.009549         1.03068         1.06229221           0.009589         1.446345         2.09191368           0.009590         1.675911         2.0866768           0.009392         2.0024702         2.00237402           0.009180         3.632392         -0.09707867           0.009181         0.58109         -0.7907867           0.009182         2.4726457         -0.064243           0.009180         3.57343         1.2725666           0.009181         3.53343         1.2725756           0.008525         -0.83121         0.6991002           0.008529         1.624535         2.69911374           0.008529         1.625352         2.6991134           0.008681         3.0533392         -0.0028897           0.008682         3.095344 <td< td=""><td></td><td></td><td></td></td<>			
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0.009134         1.508067         2.27426457           0.009189         3.57434         0.12775915           0.009089         2.375434         0.12775915           0.000875         2.470757         6.10462233           0.008575         0.83612         0.69910022           0.008685         0.05582         6.69910022           0.008685         0.05582         0.00126880           0.008685         0.05384         0.0028989           0.008619         5.79934         3.5823392           0.007711         -7.2294         0.52215310           0.007785         5.476326         2.99901488           0.007496         4.414316         19.4861893           0.007197         3.858023         19.615990           0.007519         3.764975         58.5186477           0.00752         3.764975         58.5186477           0.00752         3.764975         58.5186477           0.00752         3.764975         58.5186477           0.00753         3.764975         58.5186477           0.00753         2.76272         0.58173923           0.00753         2.76272         0.58173923           0.007532         2.76272         0.58173923			2.002374029
0.008999         -1.31289         1.72367660           0.009081         0.375742         0.12775912           0.009085         1.273828         1.62263887           0.008972         2.470757         6.10464233           0.008292         1.645453         2.63911374           0.008688         0.03562         0.00126880           0.008689         7.9994         3.623392           0.008213         5.599749         42.3768342           0.007765         5.476326         29.9901498           0.007765         5.476326         29.9901498           0.007769         4.414316         19.461599           0.007197         3.688023         1.4961399           0.00723         7.64975         58.5186477           0.00726         4.45493         2.0695720           0.00727         3.74473043         2.962406           0.00758         4.54939         2.0695720           0.00758         4.54939         2.0695720           0.00758         2.74509         2.9863606           0.00758         2.74509         2.9863606           0.00758         2.74509         7.41748072           0.007582         2.723505         7.41748072			
0.00918 0.357434 0.12775915 0.00908 1.273828 1.6226887 0.008572 2.470757 6.10464233 0.008755 -0.83612 0.69910022 0.008829 1.624535 2.63911374 0.006888 0.03562 0.00126880 0.008685 -0.05384 0.00289897 0.008689 5.79934 33.623392 0.00719 5.509749 42.3768342 0.007711 -0.72949 0.53215310 0.007768 5.476326 29.9901498 0.007369 5.476326 19.4961893 0.007199 3.868023 14.9615990 0.0076912 2.801273 7.84713043 0.0076912 -7.64975 58.5186477 0.00728 -4.54939 20.6969272 0.007687 -0.76272 0.58173923 0.007684 4.794409 22.9865366 0.007334 2.62417 6.88626628 0.007334 2.72350 7.41748072 0.007332 2.009735 4.0390341 0.007188 3.710994 13.77147387			
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0.008972         2.470757         6.10464233           0.008755         -0.83612         0.69910022           0.008829         1.624535         2.63911374           0.008688         0.03562         0.00126880           0.008689         5.99749         42.3768342           0.008591         5.79934         3.5623392           0.00711         -0.72949         0.53215310           0.007768         5.476326         29.9901498           0.007365         -1.75202         3.06957204           0.007179         3.688023         1.961899           0.00728         4.54938         2.6969272           0.00728         4.54939         2.06959272           0.00758         4.754939         2.06959272           0.00758         4.754939         2.06959272           0.007582         2.723505         7.41748072           0.007334         2.62417         6.8862628           0.007332         2.097355         4.0990341           0.007338         2.723505         7.41748072           0.007383         3.710494         3.7714733           0.007583         3.7809494         3.2781494           0.007583         3.7809494         3.780949			
0.008755 - 0.83612			1.622638879
0.008829 1.624535 2.63911374 0.006888 0.03584 0.00226889 0.008689 5.79934 33.6323392 0.008213 6.509749 42.3768342 0.007712 1-07.2949 0.53215310 0.007716 5.476526 29.9901498 0.007365 5.476526 29.9901498 0.007369 4.41316 19.4861893 0.007179 3.886023 14.9615990 0.007187 3.886023 14.9615990 0.007187 3.886023 14.9615990 0.007187 3.886023 14.9615990 0.00728 4.54939 20.6969272 0.00728 4.54939 20.6969272 0.00728 4.54939 20.6969272 0.007384 2.62417 6.88626628 0.007334 2.62417 6.88626628 0.007333 2.009735 4.03903341 0.007333 2.009735 4.03903341 0.007188 3.7710994 13.7714738 0.007683 1.36322 1.85837813			
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0.008685 -0.05384 0.00289897 0.008689 5.79934 3.58233392 0.008213 6.509749 42.3768342 0.007711 -0.72949 0.53215310 0.007768 5.476326 29.9901488 0.007365 -1.75202 3.06957204 0.007496 4.414316 19.4661893 0.00719 3.868023 14.9615990 0.006912 2.801273 7.84713043 0.006723 -7.64975 58.5186477 0.00723 -7.64975 58.5186477 0.00728 -4.54939 20.6969272 0.007682 7.076272 0.58173923 0.007684 -2.62417 6.88626628 0.007334 -2.62417 6.88626628 0.007332 2.099735 4.0390341 0.007188 3.710994 13.7714733			
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0.00213 6.509749 42.3768342 0.007711 -0.72949 0.53215310 0.007765 5.476326 29.9901498 0.007365 -1.75202 3.06957204 0.007496 4.414316 19.4861893 0.007179 3.868023 1 49.61893 0.006912 2.801273 7.84713043 0.006723 -7.64975 55.5186477 0.00728 4.54939 2.069692 0.007627 -0.76272 0.58173923 0.007684 4.79440 2.29863606 0.007384 -2.62417 6.88626628 0.007532 2.723505 7.41748072 0.007533 2.009735 4.03903341 0.007188 3.710994 13.7147433 0.00693 -1.36322 1.85837813	0.008685	-0.05384	0.002898977
0.007711 -0.72949 0.53215310 0.007768 5.476326 29.9901488 0.007355 1.75202 3.69557204 0.007496 4.414316 19.4861893 0.007179 3.888023 19.9115990 0.006912 2.001273 7.84713048 0.00723 -7.64975 58.5186477 0.00728 -4.54939 20.6969272 0.007627 -0.76272 0.56173923 0.007684 4.794409 22.9863606 0.007334 -2.62417 6.88626628 0.007384 2.723505 7.41748072 0.007382 2.723505 7.41748072 0.007383 2.009735 4.0390341 0.007188 3.710994 13.7714733			33.63233923
0.007768 5.476326 29.9901498 0.007365 -1.75202 3.06957204 0.007369 4.414361 19.4681893 0.007179 3.858023 14.9615990 0.006921 2.801273 7.84713043 0.006723 -7.64775 5.85.186477 0.00728 4.54999 20.6969272 0.007680 4.79409 22.9685606 0.007384 2.65417 6.88626628 0.007532 2.723505 7.41748072 0.007332 2.090735 4.0990341 0.007183 3.710994 13.7174733 0.00693 1.36322 1.85837813	0.008213	6.509749	42.37683421
0.007365 -1.75202 3.06957204 0.007496 4.414316 19.4861893 0.007179 3.886023 1 49.615990 0.006912 2.801273 7.84713043 0.006723 4.764975 58.5186477 0.00728 4.54939 20.699272 0.007627 -0.76272 0.58173923 0.007686 4.794409 2.9865806 0.007334 -2.62417 6.88626628 0.007532 2.723505 7.41748072 0.007383 2.009735 4.0390341 0.007189 3.71094 13.7714733 0.00693 -1.6522 1.85837813	0.007711		0.532153103
0.007496 4.414316 19.4861893 0.007179 3.888023 14.9615990 0.006912 2.801273 7.84713048 0.006723 -7.64975 58.5186477 0.00728 -4.54939 20.6969272 0.007627 -0.76272 0.58173923 0.007684 -4.794409 22.9863606 0.007334 -2.62417 6.88626628 0.007532 2.723505 7.41748072 0.007332 2.009735 4.0390341 0.007188 3.71094 13.7714733 0.007188 3.71094 13.7714733	0.007768	5.476326	29.99014985
0.007179 3.868023 14.9615990 0.006921 2.801273 7.84713043 0.006723 -7.64975 58.5186477 0.00728 4.54939 20.6969272 0.007627 -0.76272 0.58173923 0.007686 4.794409 22.9865606 0.007334 -2.62417 6.88626628 0.007532 2.723505 7.41748072 0.007332 2.009735 4.0990341 0.007183 7.710994 13.7714733 0.00693 1.36322 1.85837813	0.007365	-1.75202	3.069572043
0.006912 2.801273 7.84713043 0.006723 -7.64975 55.5186477 0.00728 4.54939 20.6969272 0.007384 -7.94409 22.9865060 0.007384 -2.62417 6.88626628 0.007532 2.723505 7.41748072 0.007332 2.009735 4.0390341 0.007183 3.71094 13.7714733 0.00693 -1.6522 1.85837813	0.007496	4.414316	19.48618934
0.00728 -7.64975 \$5.5186477 0.00728 -4.54939 20.6969272 0.007627 -0.76272 0.58173923 0.007686 4.794409 22.9863606 0.007384 -2.62417 6.88626628 0.007382 2.72350 7.41748072 0.007382 3.70394 4.0390341 0.007188 3.71094 13.7714733 0.00693 -1.56522 1.58537813	0.007179	3.868023	14.96159909
0.00728 -4.54939 20.6969272 0.007627 -0.76272 0.58173923 0.007686 4.794409 22.9863606 0.007334 -2.62417 6.88626628 0.007532 2.723505 7.41748072 0.007332 2.009735 4.0390341 0.007188 3.710994 13.7714733 0.00693 -1.36322 1.85837813	0.006912	2.801273	7.847130438
0.00728 -4.54939 20.6969272 0.007627 -0.76272 0.58173923 0.007686 4.794409 22.9863606 0.007334 -2.62417 6.88626628 0.007532 2.723505 7.41748072 0.007332 2.009735 4.0390341 0.007188 3.710994 13.7714733 0.00693 -1.36322 1.85837813	0.006723	-7.64975	58.51864773
0.007686         4.794409         22.9863606           0.007334         2.62417         6.88626628           0.007532         2.723505         7.41748072           0.007332         2.009735         4.0390341           0.007188         3.710994         13.7714733           0.00693         -1.36322         1.85837813			20.69692727
0.007334     -2.62417     6.88626628       0.007532     2.723505     7.41748072       0.007332     2.009735     4.0390341       0.007188     3.710994     13.7714733       0.00693     -1.36322     1.85837813	0.007627	-0.76272	0.581739239
0.007334     -2.62417     6.88626628       0.007532     2.723505     7.41748072       0.007332     2.009735     4.0390341       0.007188     3.710994     13.7714733       0.00693     -1.36322     1.85837813	0.007686	4.794409	22.98636062
0.007532         2.723505         7.41748072           0.007332         2.009735         4.0390341           0.007188         3.710994         13.7714733           0.00693         -1.36322         1.85837813			6.886266282
0.007332 2.009735 4.0390341 0.007188 3.710994 13.7714733 0.00693 -1.36322 1.85837813			7.417480726
0.007188 3.710994 13.7714733 0.00693 -1.36322 1.85837813			4.03903413
0.00693 -1.36322 1.85837813			13.77147335
			1.858378136
Deviation 2.49		Deviation	2.491

Appendix 5- Fundamental Approach

	D 1 01			undamental Ap				
Spot Price	Rate Change	JP Interest		IR differential	Change Forecast	Rate Forecast	Error (%)	Error Squared
0.0089449		-0.1	1.91					
	0.718028246	-0.1	1.95	-2.01	-0.325299205	0.008915846		1.07306699
	-2.448495459	-0.1	2.19	-2.05	-0.319347625	0.008980401		4.76369217
0.0088616	0.831217758	-0.1	2.2	-2.29	-0.283638145	0.008763654	-1.10567	1.22249601
	-0.499067105	-0.1	2.27	-2.3	-0.28215025	0.008836631		0.04752611
0.0091216	3.44979121	-0.1	2.4	-2.37	-0.271734985	0.008793449		12.9414495
	0.720280022	-0.1	2.4	-2.5	-0.25239235	0.009098569		0.93260837
0.008979	-2.267197883	-0.1	2.41	-2.5	-0.25239235	0.009164104	2.061545	4.24996710
0.0090096	0.340567435	-0.1	2.42	-2.51	-0.250904455	0.008956469	-0.58946	0.3474682
0.0089763	-0.368930203	-0.1	2.39	-2.52	-0.24941656	0.008987106	0.119956	0.01438948
0.0091491	1.924973415	-0.1	2.38	-2.49	-0.253880245	0.008953549	-2.1377	4.56977598
0.0092279	0.860968769	-0.1	2.4	-2.48	-0.25536814	0.009125767	-1.10681	1.22502315
0.0091899	-0.411712532	-0.1	2.13	-2.5	-0.25239235	0.009204611	0.159979	0.02559322
0.0093927	2.206337172	-0.1	2.04	-2.23	-0.292565515	0.009163023	-2.44496	5.977822828
0.0092543	-1.473279179	-0.1	1.83	-2.14	-0.30595657	0.009363932	1.184778	1.40369817
0.0092578	0.037957915	-0.1	1.55	-1.93	-0.337202365	0.009223084	-0.37502	0.140638448
0.0091366	-1.309272763	-0.1	1.55	-1.65	-0.378863425	0.009222728	0.942753	0.88878235
0.0092013	0.708499264	-0.1	1.55	-1.65	-0.378863425	0.009101977	-1.07971	1.16578001
0.0092319	0.332348597	-0.1	1.58	-1.65	-0.378863425	0.009166465	-0.70886	0.502477039
0.0092476		-0.1	0.65	-1.68	-0.37439974	0.009197341		0.29553246
0.009306		-0.1	0.05	-0.75	-0.512773975	0.009200195		1.293833696
0.0093192	0.141653231	-0.1	0.05	-0.15	-0.602047675	0.009250021	-0.74265	0.551527419
	-0.379706455	-0.1	0.08	-0.15	-0.602047675	0.009263124	-0.22319	0.04981318
	-0.250964483	-0.1	0.09	-0.18	-0.59758399	0.009228366	-0.34749	0.12075040
0.0094488	2.032429087	-0.1	0.1	-0.19	-0.596096095	0.009205344	-2.57617	6.63663345
	-0.147181812	-0.1	0.09	-0.2	-0 5946082	0.009392576		0.20078096
0.0094833		-0.1	0.09	-0.19	-0.596096095	0.009378612	-1.10348	1.21766795
0.0094633	0.852156706	-0.1	0.09	-0.19	-0.596096095	0.009378012	-1.43602	2.06214108
0.0095876		-0.1	0.09	-0.19	-0.596096095	0.009507059	-0.84042	0.706311999
0.0095870	1.041409161	-0.1	0.09	-0.19	-0.596096095	0.009530484		2.62643475
	-1 425724053	-0.1	0.09	-0.19	-0.596096095	0.009530484		0.708336413
0.0000	-1.648286921	-0.1	0.08	-0.19	-0.596096095	0.009629733	OIG INGE!	1.14129004
	-3.850530115	-0.1	0.07	-0.17	-0.599071885	0.0093357	3.38167	11.4356951
0.0091599		-0.1	0.06	-0.17	-0.599071885	0.008976226		4.0226213
	-0.280420731	-0.1	0.08	-0.16	-0.60055978	0.009104931	-0.32104	0.103066238
	-1.485661735	-0.1	0.1	-0.18	-0.59758399	0.009079671		0.812649149
0.0091183	1.330354725	-0.1	0.09	-0.2	-0.5946082	0.008945045	-1.89969	3.60882325
	-0.356161086	-0.1	0.08	-0.19	-0.596096095	0.00906391	-0.24079	0.05798108
	-1.257806142	-0.1	0.08	-0.18	-0.59758399	0.009031493		0.44706908
	-2.411182959	-0.1	0.08	-0.18	-0.59758399	0.008917894		3.45368252
	0.843172086	-0.1	0.08	-0.18	-0.59758399	0.008702868		2.041211109
	-1.598565674	-0.1	0.08	-0.18	-0.59758399	0.008776248		1.03478328
	-0.035607588	-0.1	0.08	-0.18	-0.59758399	0.008635954		0.31604250
	0.053871152	-0.1	0.2	-0.18	-0.59758399	0.008632879	-0.6511	0.4239369
	-5.481451563	-0.1	0.33	-0.3	-0.57972925	0.008639081	5.18599	26.8944905
0.0077112	-6.111881041	-0.1	0.77	-0.43	-0.560386615	0.008167122	5.912883	34.9621828
0.0077678	0.734848884	-0.1	1.21	-0.87	-0.494919235	0.007673006	-1.2208	1.49034557
0.0073645	-5.191995684	-0.1	1.68	-1.31	-0.429451855	0.007734476	5.023356	25.2341082
0.0074959	1.783262524	-0.1	2.33	-1.78	-0.35952079	0.007338053	-2.10524	4.43204107
0.007179	-4.227692675	-0.1	2.56	-2.43	-0.262807615	0.007476159	4.139908	17.138835
0.0069116	-3.723978309	-0.1	3.08	-2.66	-0.22858603	0.007162547	3.630595	13.1812189
0.0067233	-2.724939995	-0.1	3.78	-3.18	-0.15121549	0.006901163	2.645822	7.00037169
0.0072802	8.283408074	-0.1	4.1	-3.88	-0.04706284	0.006720112	-7.69321	59.1854934
0.0076272	4.766221457	-0.1	4.33	-4.2	0.0005498	0.007280233	-4.54886	20.6921526
0.0076858		-0.1	4.57	-4.43	0.034771385	0.007629835	-0.72821	0.53029292
	-4.575062106	-0.1	4.65	-4.67	0.070480865	0.007691221		23.7000461
	2.694888071	-0.1	4.83	-4.75	0.082384025	0.0073340216	-2 54395	6 47166892
	-2.651297015	-0.1	5.06	-4.93	0.109166135	0.007540044		8.04087977
	-1.970140246	-0.1	5.08	-5.16	0.14338772	0.007340044		4.64835442
	-3 578206564	-0.1	5.08	-5.18	0.14536772	0.007342644		14 92113
0.0060305		-U.1	J.25	-5.10	0.14030331	0.00/150198	0.002/09	14.521130
	1.382059341	-0.1	5.5	-5.35	0.171657725	0.006942384	-1 1939	1.425400058

SUMMARY	OUTPUT							
Regression:	Statistics							
Multiple R	0.09732004							
R Square	0.00947119							
Adjusted R	-0.0076069							
Standard Er	2.47045107							
Observation	60							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	1	3.38468247	3.38468247	0.55458155	0.4594586			
Residual	58	353.981452	6.10312848					
Total	59	357.366135						
	Coefficients	Standard Err	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.	Upper 95.0%
Intercept	-0.6243661	0.46558355	-1.3410399	0.1851358	-1.5563328	0.30760064	-1.55633	0.30760064
X Variable 1	-0.1487895	0.19979723	-0.7447023	0.4594586	-0.5487271	0.25114814	-0.54873	0.25114814

## Appendix 6- Technical Approach

	Technical	Approach	
Exchange	Moving Average		Error Squared
0.008945	zimginerage		22. oquared
0.009009			
0.003003			
0.008862			
0.008817			
0.008817			
0.009122			
0.009187			
0.008979			
		0.07550	
0.008976	0.008969554	-0.07558	0.01
0.009149	0.008989972	-1.7396	3.03
0.009228	0.009011845	-2.34134	5.48
0.00919	0.009051978	-1.5009	2.25
0.009393	0.009105082	-3.06183	9.37
0.009254	0.00914877	-1.14022	1.30
0.009258	0.009162391	-1.0306	1.06
0.009137	0.009157321	0.226875	0.05
0.009201	0.009179554	-0.23661	0.06
0.009232	0.009201786	-0.32625	0.11
0.009248	0.009228914	-0.20221	0.04
0.009306	0.009244606	-0.66024	0.44
0.009319	0.009253739	-0.70276	0.49
0.009284	0.009263132	-0.2231	0.05
0.009261	0.00924992	-0.11474	0.01
0.009449	0.009269367	-1.89859	3.60
0.009435	0.009287072	-1.56633	2.45
0.009483	0.009321738	-1.70321	2.90
0.009564	0.009358013	-2.15449	4.64
0.009588	0.009393586	-2.02396	4.10
0.009687	0.009437572	-2.57972	6.65
0.009549	0.009461904	-0.91588	0.84
0.009392	0.009469178		0.68
0.00903	0.009443826	4.579035	20.97
0.00916	0.009433765	2.989356	8.94
0.009134	0.009402315	2.93466	8.61
0.008999	0.009358685	4.002126	16.02
0.009118	0.009322185	2.236405	5.00
0.009086	0.009274357	2.075427	4.31
0.003000	0.009212744	2.688931	7.23
0.008755	0.009119515	4.161277	17.32
0.008829	0.009047479	2.474464	6.12
0.008688	0.009047479		11.08
0.008685	0.008942515	2.967695	
0.008689	0.008942515	2.37081	8.81 5.62
0.008889	0.008893467	7.186137	51.64
0.008213	0.008803356	12.49418	156.10
0.007711	0.008539575	9.935065	98.71
0.007365	0.008367449	13.61824	185.46
0.007496	0.008219884		93.30
0.007179	0.008062261	12.30408	151.39
0.006912	0.007870522	13.87386	192.48
0.006723	0.007674062	14.1417	199.99
0.00728	0.007533604		12.12
0.007627	0.007427377	-2.61967	6.86
0.007686	0.007374642	-4.04853	16.39
0.007334	0.007336943	0.03775	0.00
0.007532	0.007313341	-2.90077	8.41
0.007332	0.007310101	-0.30045	0.09
0.007188	0.007279283	1.274483	1.62
0.00693	0.007254436	4.674256	21.85
0.007026	0.007265902	3.410496	11.63
		Deviation	5.15

## EUR/USD Quantitative Analysis Appendix 7- Random Walk

	Random Wa	
Forecast	Error (%)	Error squared
1.168962	0.572827763	0.328131646
1.162304	0.155709149	0.024245339
1.160497	2.572857411	6.619595255
1.131388	-0.045233678	0.002046086
1.1319	-1.524675381	2.324635018
1.149425	0.379274148	0.143848879
1.145082	0.688236148	0.473668995
1.137255	1.328287954	1.764348888
1.122347	0.045996233	0.002115653
1.121831	0.163839871	0.026843503
1.119996	-1.440383539	2.07470474
1.136364	2.631807114	6.926408685
1.107224	0.547039593	0.299252316
1.1012	1.035123743	1.071481164
1.089918	-2.303042907	5.304006629
1.115611	1.243386483	1.546009947
1.10191	-1.797817096	3.232146309
1.122083	1.124179779	1.26378017
1.109609	0.616607228	0.380204473
1.102809	-0.000634739	4.02893E-0
1.102816	0.76210055	0.580797249
1.094475	-1.527904363	2.33449174
1.111457	-1.060293688	1.12422270
1.123368	-4.637771954	21.5089287
1.178001	-1.333008352	1.776911267
1.193916	1.837468248	3.37628956
1.172374	0.383080743	0.146750856
1.1679	-2.16732997	4.697319198
1.193773	-1.931511519	3.73073675
1.217285	0.412609927	0.170246952
1.212283	0.264082905	0.069739783
1.20909	3.085778206	9.522027134
1.172897	-2.429250835	5.901259621
1.202099	-1.741613168	3.033216429
1.223406	3.194335727	10.2037807
1.185536	-0.103137955	0.010637438
1.18676	0.471133047	0.22196634
1.181195	2.054049477	4.21911925
1.157421	0.12846732	0.016503852
1.155936	2.024089963	4.09694017
1.133003	-0.397704846	0.15816914
1.137527	1.301346319	1.69350224
1.122914	0.12911671	0.01667112
1.121466	1.285182201	1.65169329
1.107236	4.988100092	24.8811425
1.05463	-1.749656003	3.061296129
1.073411	2.447392934	5.98973217
1.047768	2.639335831	6.96609363
1.020825	1.685418441	2.84063532
1.003905	2.38830052	5.70397937
0.980488	-0.823664239	0.678422778
0.988631	-5.170473893	26.73380028
1.042535	-2.825288998	7.98225792
1.072846	-1.219874873	1.48809470
1.086095	2.681589175	7.19092050
1.057731	-2.709914431	7.343636223
1.087193	-1.26220267	1.59315558
1.101091	2.951981218	8.7141931
1.069519	-2.04273224	4.17275500
	0.704700570	0.500055046
1.091822	-0.721703573	0.520856048

Appendix 8- Fundamental Approach

				Fundamental A				
	Rate Change			IR differential	Change Forecast	Rate Forecast	Error (%)	Error Squared
1.168962		0	1.91					
1.162304	-0.56956514	0	1.95	-1.95	-0.137905785	1.167349934		0.188470607
1.160497	-0.15546707	0	2.19	-2.19	-0.153458817	1.160520342		4.04566E-06
1.131388	-2.50832187 0.045254148	0	2.2	-2.2 -2.27	-0.15410686 -0.158643161	1.158708595	-0.20381	5.831189498 0.04153651
1.1319	1.54828165	0	2.27	-2.27	-0.158643161	1.13000896	-1.6892	2.853382656
1.145423	-0.37784109	0	2.4	-2.4	-0.16706772	1.147504682		0.044763043
1.137255	-0.68353183	0	2.41	-2.41	-0.167715763	1.143161517		0.26974115
1.122347	-1.31087575	0	2.42	-2.42	-0.168363806	1.135340274		1.340241023
1.121831	-0.04597509	0	2.39	-2.39	-0.166419677	1.120479194	-0.1205	0.014520248
1.119996	-0.16357187	0	2.38	-2.38	-0.165771634	1.119971322	-0.0022	4.85481E-06
1.136364	1.461433791	0	2.4	-2.4	-0.16706772	1.118124848	-1.60504	2.576168948
1.107224	-2.56431918	0	2.13	-2.13	-0.149570559	1.134664334	2.4783	6.141971616
1.1012	-0.54406335	0	2.04	-2.04	-0.143738172	1.105632496	0.402515	0.162018419
1.089918	-1.02451871	0	1.83	-1.83	-0.130129269	1.099767016	0.903647	0.81657876
1.115611	2.357333304	0	1.55	-1.55	-0.111984065	1.088697466	-2.41245	5.819905017
1.10191	-1.22811625	0	1.55	-1.55	-0.111984065	1.114361693	1.13001	1.276922654
1.122083	1.830730277	0	1.55	-1.55	-0.111984065	1.100676036	-1.90779	3.63965464
1.109609	-1.11168247	0	1.58	-1.58	-0.113928194	1.120804631		1.01802213
1.102809	-0.61282848	0	0.65	-0.65	-0.053660195	1.109013582		
1.102816	0.000634743	0	0.05	-0.05	-0.014777615	1.102646031	-0.01541	0.000237538
1.094475	-0.75633651	0	0.05	-0.05	-0.014777615	1.10265303	0.74721	0.558323255
1.111457	1.551611503	0	0.08	-0.08	-0.016721744	1.094291985	-1.54437	2.385080597
1.123368	1.071656393 4.863321725	0	0.09	-0.09	-0.017369787 -0.01801783	1.111263942 1.123165593	-1.07748 -4.65495	1.160961652 21.66859822
	1.351017529	0	0.09	-0.1	-0.01801783	1.177796384	-1.35015	1.822895838
1.172374	-1.80431454	0	0.09	-0.09	-0.017369787	1.193708619		3.311596689
1.172374	-0.38161883	0	0.09	-0.09	-0.017369787	1.172170361		0.133695839
	2.215343779	0	0.09	-0.09	-0.017369787	1.167697138	-2.18432	4.771268262
1.217285	1.969553676	0	0.09	-0.09	-0.017369787	1.193565644	-1.94855	3.796830762
1.212283	-0.41091445	0	0.08	-0.08	-0.016721744	1.217081449	0.395819	0.156672829
1.20909	-0.26338734	0	0.07	-0.07	-0.016073701	1.212088141	0.247967	0.061487512
1.172897	-2.99340827	0	0.07	-0.07	-0.016073701	1.208895654	3.069209	9.420040852
1.202099	2.489732688	0	0.06	-0.06	-0.015425658	1.172716073	-2.4443	5.974611121
1.223406	1.772482965	0	0.08	-0.08	-0.016721744	1.201897988	-1.75804	3.090717596
1.185536	-3.09545646	0	0.1	-0.1	-0.01801783	1.223185569	3.175742	10.08533945
1.18676	0.10324444	0	0.09	-0.09	-0.017369787	1.185330075	-0.12049	0.014517799
1.181195	-0.46892379	0	0.08	-0.08	-0.016721744	1.186561553	0.454333	0.20641804
1.157421	-2.01270747	0	0.08	-0.08	-0.016721744	1.180997484		4.149304877
1.155936	-0.12830249	0	0.08	-0.08	-0.016721744	1.157227459		0.012482273
1.133003	-1.98393337	0	0.08	-0.08	-0.016721744	1.155742707	2.00703	4.02816844
	0.399292853	0	0.08	-0.08	-0.016721744	1.132813542	-0.41436	0.171694281
1.122914 1.121466	-1.28462885 -0.12895021	0	0.08	-0.08	-0.016721744	1.137336786		1.649701256 0.010938403
1.121466	-0.12895021	0	0.2	-0.2 -0.33	-0.02449826 -0.032922819	1.122638906		1.567094032
1.107236	-1.26887485 -4.75110997	0	0.33	-0.33	-0.032922819	1.121096782		24.2418257
1.03463	1.780814124	0	1.21	-0.77	-0.081438711	1.053681354		3.3783645
1.047768	-2.38892652	0	1.68	-1.21	-0.120408624	1.072118521		5.401150014
1.020825	-2.5714662	0.5	2.33	-1.83	-0.120408024	1.046404547		6.278893386
1.003905	-1.65748292	0.5	2.56	-2.06	-0.145034258	1.019344454	1.53794	2.365258671
0.980488	-2.33259123	1.25	3.08	-1.83	-0.130129269	1.002598626		5.085310815
0.988631	0.83050481	2	3.78	-1.78	-0.126889054	0.979243868	-0.94951	0.901565733
	5.452388201	2	4.1	-2.1	-0.14762643	0.987171519	-5.31047	28.20106334
1.072846	2.907432364	2.5	4.33	-1.83	-0.130129269	1.041178357	-2.95174	8.712779292
1.086095	1.234939591	3	4.57	-1.57	-0.113280151	1.071630678	-1.33177	1.773619717
1.057731	-2.61155792	3	4.65	-1.65	-0.118464495	1.084808363	2.559948	6.553333503
1.087193	2.785396287	3.5	4.83	-1.33	-0.097727119	1.05669731	-2.80499	7.867987013
1.101091	1.278337885	3.5	5.06	-1.56	-0.112632108	1.085968472	-1.37341	1.886263632
1.069519	-2.86733794	3.75	5.08	-1.33	-0.097727119	1.100014935	2.851369	8.130306386
	2.085329947	4	5.25	-1.25	-0.092542775	1.068529237	-2.13338	4.551329912
1.099759	0.726949997	4.25	5.5	-1.25	-0.092542775	1.090811598	-0.81358	0.661909917
							Deviation	1.952

SUMMARY	OUTPUT							
Regression	Statistics							
Multiple R	0.03031861							
R Square	0.00091922							
Adjusted R	-0.0163063							
Standard E	1.99311925							
Observatio	60							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	1	0.2119886	0.21198856	0.05336369	0.81812324			
Residual	58	230.40641	3.97252436					
Total	59	230.6184						
	Coefficients	Standard Er	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.	Upper 95.0%
Intercept	-0.0115374	0.4007109	-0.0287924	0.97712897	-0.8136474	0.79057252	-0.81365	0.79057252
X Variable 1	0.0648043	0.280531	0.23100583	0.81812324	-0.4967396	0.6263482	-0.49674	0.6263482

## Appendix 9- Technical Approach

	Technical App	roach	
Exchange Rate	Moving Average	Error (%)	Error Squared
1.168962			
1.162304			
1.160497			
1.131388			
1.1319			
1.149425			
1.145082			
1.137255 1.122347			
1.121831	1.1430991	1 005000	3.594202265
1.119996	1.1382025	1.625586	2.642530373
1.136364	1.1352025	-0.06648	0.004420119
1.107224	1.1302812	2.082433	4.336527967
1.1012	1.1272624	2.366727	5.601397671
1.089918	1.1230642	3.041165	9.248681909
1.115611	1.1196828		0.133213212
1.10191	1.1153656	1.221116	1.491124437
1.122083	1.1138484	-0.73387	0.538561186
1.109609	1.1125746		0.071430749
1.102809	1.1106724	0.713034	0.508417081
1.102816	1.1089544	0.556611	0.309816293
1.094475	1.1047655	0.940222	0.884018314
1.111457	1.1051888	-0.56396	0.318053632
1.123368	1.1074056	-1.42094	2.019074213
1.178001	1.1162139	-5.24508	27.51086879
1.193916	1.1240444	-5.8523	34.24946816
1.172374	1.1310908	-3.52133	12.39979057
1.1679	1.1356725	-2.75944	7.614509227
1.193773	1.1440889	-4.16194	17.32173341
1.217285	1.1555365	-5.07264	25.73168838
1.212283	1.1664832	-3.77798	14.27312709
1.20909	1.1779447	-2.57593	6.635410236
1.172897	1.1840887		0.910484107
1.202099	1.1919618	-0.84329	0.711140738
1.223406 1.185536	1.1965023 1.1956643	-2.19908 0.854322	4.835961235 0.72986682
1.185536	1.1956643		0.72986682
1.181195	1.1971029	1.459319	2.129611187
1.157421	1.1947972		10.42815732
1.155936	1.1886623		8.015419108
1.133003	1.1807343	4.212813	17.7477951
1.137527	1.173578		10.04410408
1.122914	1.1685797	4.066714	16.53816215
1.121466	1.1605164	3.482085	12.12491634
1.107236	1.1488994		14.15888391
1.05463	1.1358088		59.24954399
1.073411	1.1244739	4.757069	22.62970377
1.047768	1.1111312	6.047446	36.5715985
1.020825	1.0974716	7.5083	56.37456378
1.003905	1.0822685	7.805868	60.93157656
0.980488	1.067017	8.825095	77.88230632
0.988631	1.0521274	6.422659	41.25055136
1.042535	1.0440895	0.149108	0.022233107
1.072846	1.0392275	-3.13358	9.819330809
1.086095	1.0371134	-4.50988	20.33903324
1.057731	1.0374235	-1.91991	3.686060492
1.087193	1.0388017	-4.45103	19.81167904
1.101091	1.044134	-5.17278	26.75763881
1.069519	1.0490034	-1.91821	3.679522283
1.091822	1.0577951	-3.11652	9.712724887
1.099759	1.0697222	-2.73122	7.459543933
		Deviation	3.754

# GBP/USD Quantitative Analysis Appendix 10- Random Walk

	Random	
Forecast	Error (%)	Error squared
1.311837	1.206919	1.456653548
1.296193	-0.59496	0.3539786
1.303951	2.146329	4.606726234
1.276552	0.019118	0.000365484
1.276308	0.100861	0.010172942
1.275022	-2.73875	7.500768929
1.310925	-1.17332	1.376686769
1.326489	1.866401	3.483454452
1.302185	-0.14455	0.020893967
1.30407	3.178013	10.0997658
1.263903	-0.431	0.185760868
1.269374	4.435171	19.67074505
1.215466	-0.0352	0.001239071
1.215894	-1.07123	1.147523352
1.22906	-5.00842	25.08423747
1.293862	0.074406	0.005536308
1.2929	-2.45209	6.01274505
1.3254	0.352149	0.124008684
1.320749	2.99844	8.990644248
1.2823	3.314891	10.98850144
1.241157	-1.34663	1.813425509
1.258099	1.90857	3.642638573
1.234537	-0.34943	0.122103047
1.238866	-5.32883	28.39641606
1.308599	-2.08798	4.359673885
1.336505	3.458833	11.9635256
1.291823	-0.21458	0.046046074
1.294601	-2.93344	8.605060275
1.333725	-2.5767	6.639374232
1.369	-0.05891	0.00347079
1.369807	-1.99031	3.961319589
1.397624	1.359879	1.849270034
1.378873	-0.22627	0.05119643
1.382	-2.86472	8.206607398
1.422758	2.892472	8.366392733
1.382762	-0.59231	0.350827898
1.391001	1.136494	1.291619021
1.37537	2.108815	4.447100715
1.346965	-1.58398	2.508981708
1.368644	2.937064	8.626346111
1.329593	-1.65623	2.743102427
1.351985	0.574142	0.329638913
1.344267	0.147882	0.02186923
1.342282	2.107367	4.440994379
1.314579	4.539169	20.60405176
1.257499	-0.27526	0.075770424
1.26097	3.698361	13.67787665
1.215998	-0.06443	0.004151515
1.215556	4.92313	24.23721149
	3.989329	
1.159689		15.91474801
1.1152	-2.78804	7.773191931
1.147184	-4.99936	24.99362388
1.207554	-0.19382	0.037565352
1.209899	-1.69689	2.879421715
1.230784	2.297825	5.279997535
1.203138	-2.54836	6.494116992
1.2346	-1.6913	2.860489786
1.25584	0.90675	0.822195204
1.244555	-2.06523	4.265193532
1.2708	-0.96657	0.934249243
	Deviation	2.397

## Appendix 11- Fundamental Approach

				undamental Ap				
Spot Price	Rate Change	UK Interest	US Interest	IR differential	Change Forecast	Rate Forecast	Error (%)	Error Squared
1.311837		0.5	1.91					
1.296193	-1.19	0.75	1.95	-1.41	0.053613853	1.312540326	1.26118	1.590574892
1.303951	0.60	0.75	2.19	-1.2	0.03807946	1.296686583	-0.55711	0.31036944
1.276552	-2.10	0.75	2.2	-1.44	0.055833052	1.304679036	2.20336	4.854795114
1.276308	-0.02	0.75	2.27	-1.45	0.056572785	1.277274181	0.075701	0.00573067
1.275022	-0.10	0.75	2.4	-1.52	0.061750916	1.277096132	0.162674	0.02646289
1.310925	2.82	0.75	2.4	-1.65	0.071367445	1.275931951	-2.66934	7.12537765
1.326489	1.19	0.75	2.41	-1.65	0.071367445	1.311860574	-1.10279	1.21615214
1.302185	-1.83	0.75	2.42	-1.66	0.072107178	1.327445494	1.939854	3.76303532
1.30407	0.14	0.75	2.39	-1.67	0.072846911	1.303133602	-0.07181	0.00515607
1.263903	-3.08	0.75	2.38	-1.64	0.070627712	1.304991035	3.250885	10.5682541
1.269374	0.43	0.75	2.4	-1.63	0.069887979	1.264786316	-0.36141	0.13061941
1.215466	-4.25	0.75	2.13	-1.65	0.071367445	1.27027992	4.509704	20.3374308
1.215894	0.04	0.75	2.04	-1.38	0.051394654	1.216090685	0.016176	0.00026166
1.22906	1.08	0.75	1.83	-1.29	0.044737057	1.216437955	-1.02697	1.05466192
1.293862	5.27	0.75	1.55	-1.08	0.029202664	1.229418918	-4.98068	24.8071392
1.2929	-0.07	0.75	1.55	-0.8	0.00849014	1.293971851	0.082903	0.00687287
1.3254	2.51	0.75	1.55	-0.8	0.00849014	1.293009769	-2.44381	5.97219744
1.320749	-0.35	0.75	1.58	-0.8	0.00849014	1.325512528	0.360669	0.13008191
1.2823	-2.91	0.75	0.65	-0.83	0.010709339	1.320890443	3.009471	9.05691422
1.241157	-3.21	0.1	0.05	0.1	-0.05808583	1.281555165	3.25488	10.594240
1.258099	1.37	0.1	0.05	0.05	-0.054387165	1.24048197	-1.40029	1.96081110
1.234537	-1.87	0.1	0.08	0.05	-0.054387165	1.257414756	1.853145	3.4341448
1.238866	0.35	0.1	0.09	0.02	-0.052167966	1.233892967	-0.40142	0.16113652
1.308599	5.63	0.1	0.1	0.01	-0.051428233	1.238228873	-5.37752	28.917683
1.336505	2.13	0.1	0.09	0	-0.0506885	1.307935691	-2.13761	4.56939080
1.291823	-3.34	0.1	0.09	0.01	-0.051428233	1.335817659		11.5982879
1.294601	0.22	0.1	0.09	0.01	-0.051428233	1.291158638	-0.2659	0.07070353
1.333725	3.02	0.1	0.09	0.01	-0.051428233	1.29393521	-2.98336	8.90042447
1.369	2.64	0.1	0.09	0.01	-0.051428233	1.333039089	-2.6268	6.90008560
1.369807	0.06	0.1	0.08	0.01	-0.051428233	1.368295947	-0.11031	0.01216859
1.397624	2.03	0.1	0.07	0.02	-0.052167966	1.3690924	-2.04144	4.16746122
1.378873	-1.34	0.1	0.07	0.03	-0.052907699	1.396884549		1.70629299
1.382	0.23	0.1	0.06	0.03	-0.052907699	1.37814347	-0.27905	0.07787128
1.422758	2.95	0.1	0.08	0.04	-0.053647432	1.381258592	-2.91683	8.50788713
1.382762	-2.81	0.1	0.1	0.02	-0.052167966	1.422015776	2.838795	8.05875605
1.391001	0.60	0.1	0.09	0	-0.0506885	1.382061099	-0.6427	0.4130575
1.37537	-1.12	0.1	0.08	0.01	-0.051428233	1.390285633	1.084481	1.17610005
1.346965	-2.07	0.1	0.08	0.02	-0.052167966	1.374652497		4.22527310
1.368644	1.61	0.1	0.08	0.02	-0.052167966	1.346262316		2.67426557
1.329593	-2.85	0.1	0.08	0.02	-0.052167966	1.367930006		8.3137881
1.351985	1.68	0.25	0.08	0.02	-0.052167966	1.328899378		2.91567692
1.344267	-0.57	0.25	0.08	0.17	-0.063263961	1.351129681		0.26062526
1.342282	-0.15	0.5	0.2	0.17	-0.063263961	1.343416563		0.0071444
1.314579	-2.06	0.75	0.33	0.3	-0.07288049	1.341303738	2.03295	4.13288710
1.257499	-4.34	0.75	0.77	0.42	-0.081757286	1.313504236	4.4537	19.8354457
1.26097	0.28	1	1.21	-0.02	-0.049209034	1.256880197	-0.32434	0.10519504
1.215998	-3.57	1.25	1.68	-0.02	-0.035154107	1.260526717		13.409563
1.216782	0.06	1.25	2.33	-0.43	-0.018879981	1.21576842	-0.0833	0.00693890
1.159689	-4.69	1.75	2.56	-0.45	0.029202664	1.217137333		24.5398431
1.1152	-3.84	2.25	3.08	-0.81	0.009229873	1.159796038		15.9914199
1.1132	2.87	2.25	3.78	-0.83	0.010709339	1.115319431	-2.77763	7.71524900
1.207554	5.26	2.23	4.1	-0.65	0.010709339	1.113313431	-4.94	24.4035588
1.207554	0.19	3.5	4.1	-1.55	0.03068213	1.147900883	-0.1632	0.02663266
1.209899	1.73	3.5	4.33	-0.83	0.03068213	1.207924503	-0.1632	2.84380422
1.203138	-2.25	4 25	4.65	-1.07	0.028462931	1.231134317		5.41465665
1.2346	2.61	4.25	4.83	-0.65	-0.002605855	1.203106648	-2.5509	6.50706627
1.25584	1.72	4.25	5.06	-0.58	-0.007783986	1.234503899	-1.69895	2.88643310
1.244555	-0.90	4.5	5.08	-0.81	0.009229873	1.255955912		0.83917209
1.2708	2.11	5	5.25	-0.58	-0.007783986	1.244458124	-2.07286	4.29673915
1.283203	0.98	5.25	5.5	-0.25	-0.032195175	1.270390864	-0.99845	0.99690176

SUMMARY	OUTPUT							
Regression	Statistics							
Multiple R	0.02049333							
R Square	0.00041998							
Adjusted R	-0.0168142							
Standard E	2.43776184							
Observatio	60							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	1	0.14481655	0.14481655	0.02436888	0.87649205			
Residual	58	344.675602	5.94268279					
Total	59	344.820418						
	Coefficients	Standard Erro	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.	Upper 95.0%
Intercept	-0.0506885	0.41762424	-0.1213735	0.9038147	-0.8866543	0.78527722	-0.88665	0.78527722
X Variable :	-0.0739733	0.47386779	-0.1561054	0.87649205	-1.0225227	0.87457613	-1.02252	0.87457613

Appendix 12- Technical Approach

	Technical A		1
	Moving Average	Error (%)	Error Squared
1.311837			
1.296193			
1.303951			
1.276552 1.276308			
1.275022			
1.310925			
1.326489			
1.302185			
1.30407	1.2983532	-0.43838	0.19217823
1.263903	1.2935598	2.346446	5.505808316
1.269374	1.2908779	1.694055	2.86982402
1.215466	1.2820294	5.476369	29.99061451
1.215400	1.2759636	4.940365	24.40720502
1.22906	1.2712388		11.77720596
1.22360	1.2731228	-1.60289	2.569260165
1.2929	1.2713203	-1.66909	2.785870566
1.3254	1.2712114	-4.08847	16.71559843
1.320749	1.2730678	-3.61016	13.03328141
1.2823	1.2708908	-0.88974	0.791646146
1.241157	1.2686162	2.212387	4.894657622
1.258099	1.2674887	0.74634	0.557023863
1.234537	1.2693958	2.823633	7.972906004
1.238866	1.271693	2.649762	7.021238443
1.308599	1.2796469	-2.21245	4.894935484
1.336505	1.2839112	-3.93517	15.48559602
1.291823	1.2838035	-0.62079	0.385379455
1.294601	1.2807236	-1.07194	1.149064313
1.333725	1.2820212	-3.87665	15.02838603
1.369	1.2906912	-5.72015	32.72007131
1.369807	1.3035562	-4.83651	23.39179188
1.397624	1.3175087	-5.73225	32.85868864
1.378873	1.3319423	-3.40355	11.58418618
1.382	1.3462557	-2.58642	6.689559283
1.422758	1.3576716	-4.57466	20.92755198
1.382762	1.3622973	-1.47999	2.190361982
1.391001	1.3722151	-1.35053	1.823934037
1.37537	1.380292	0.357867	0.128069031
1.346965	1.381616	2.572524	6.617880534
1.368644	1.3815804	0.945198	0.893399851
1.329593	1.377559	3.60757	13.01456229
1.351985	1.3729951	1.554019	2.414974184
1.344267	1.3695345	1.879649	3.533080021
1.342282	1.3655627	1.734412	3.008184965
1.314579	1.3547448	3.055412	9.335540391
1.257499	1.3422185	6.737143	45.38908953
1.26097	1.3292154	5.412135	29.29120637
1.215998	1.3132782	8.00003	64.00047369
1.216782	1.3002599	6.860547	47.06710401
1.159689	1.2793644	10.31961	106.4943820
1.1152	1.2579251	12.79816	163.7929440
1.147184	1.237445	7.868049	61.9061961
1.207554	1.2237737	1.343186	1.8041494
1.209899	1.2105354	0.052599	0.002766
1.230784	1.2021559	-2.32601	5.41030025
1.203138	1.1967198	-0.53346	0.28457425
1.2346	1.1940828	-3.28181	10.77026292
1.25584	1.198067	-4.60035	21.16319410
1.244555	1.2008443	-3.51215	12.3352323
1.2708	1.2119554	-4.63052	21.44168037
1.283203	1.2287557	-4.24308	18.00370814
			4.270463815

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