

Article

# A Maximal Tail Dependence-based Clustering Procedure for Financial Time Series and Its Applications in Portfolio Selection

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## 1 Appendix 1001 Portfolios constructed using all combination of 4 currencies out of 14 currencies

Portfolio	Currency 1	Currency 2	Currency 3	Currency 4	Mean return	Accumulative return
1	AUD (0.0000)	BRL (0.0218)	CAD (0.0217)	CNY (0.9566)	-0.0285%	-5.8756%
2	AUD (0.0653)	BRL (0.0280)	CAD (0.5903)	GBP (0.3164)	-0.1232%	-25.3817%
3	AUD (0.0000)	BRL (0.0000)	CAD (0.5079)	INR (0.4921)	-0.1103%	-22.7136%
4	AUD (0.0000)	BRL (0.0000)	CAD (0.5500)	IDR (0.4500)	-0.1403%	-28.9106%
5	AUD (0.0572)	BRL (0.0137)	CAD (0.6000)	JPY (0.3290)	-0.1285%	-26.4745%
6	AUD (0.0000)	BRL (0.0000)	CAD (0.5240)	KRW (0.4760)	-0.0625%	-12.8653%
7	AUD (0.0426)	BRL (0.0000)	CAD (0.7259)	MXN (0.2316)	-0.1371%	-28.2418%
8	AUD (0.1238)	BRL (0.0204)	CAD (0.8558)	RUB (0.0000)	-0.1334%	-27.4771%
9	AUD (0.1238)	BRL (0.0204)	CAD (0.8558)	ZAR (0.0000)	-0.1334%	-27.4771%
10	AUD (0.0427)	BRL (0.0000)	CAD (0.7669)	TRY (0.1905)	-0.1503%	-30.9556%
11	AUD (0.0663)	BRL (0.0016)	CAD (0.5395)	EUR (0.3926)	-0.1018%	-20.9615%
12	AUD (0.0000)	BRL (0.0238)	CNY (0.9528)	GBP (0.0234)	-0.0284%	-5.8427%
13	AUD (0.0000)	BRL (0.0188)	CNY (0.9369)	INR (0.0444)	-0.0286%	-5.8916%
14	AUD (0.0000)	BRL (0.0208)	CNY (0.9540)	IDR (0.0252)	-0.0293%	-6.0331%
15	AUD (0.0000)	BRL (0.0220)	CNY (0.9177)	JPY (0.0603)	-0.0321%	-6.6162%
16	AUD (0.0000)	BRL (0.0264)	CNY (0.9736)	KRW (0.0000)	-0.0271%	-5.5828%
17	AUD (0.0000)	BRL (0.0264)	CNY (0.9736)	MXN (0.0000)	-0.0271%	-5.5828%
18	AUD (0.0000)	BRL (0.0264)	CNY (0.9736)	RUB (0.0000)	-0.0271%	-5.5828%
19	AUD (0.0000)	BRL (0.0264)	CNY (0.9736)	ZAR (0.0000)	-0.0271%	-5.5828%
20	AUD (0.0000)	BRL (0.0264)	CNY (0.9736)	TRY (0.0000)	-0.0271%	-5.5828%

21	AUD (0.0000)	BRL (0.0166)	CNY (0.9228)	EUR (0.0606)	-0.0272%	-5.6042%
22	AUD (0.1439)	BRL (0.0000)	GBP (0.3275)	INR (0.5286)	-0.1001%	-20.6209%
23	AUD (0.1167)	BRL (0.0000)	GBP (0.3789)	IDR (0.5044)	-0.1309%	-26.9685%
24	AUD (0.2138)	BRL (0.0508)	GBP (0.3800)	JPY (0.3554)	-0.1214%	-25.0024%
25	AUD (0.1216)	BRL (0.0018)	GBP (0.3380)	KRW (0.5386)	-0.0444%	-9.1544%
26	AUD (0.1733)	BRL (0.0306)	GBP (0.4533)	MXN (0.3428)	-0.1301%	-26.8060%
27	AUD (0.3793)	BRL (0.0736)	GBP (0.5323)	RUB (0.0148)	-0.1274%	-26.2379%
28	AUD (0.3876)	BRL (0.0776)	GBP (0.5348)	ZAR (0.0000)	-0.1247%	-25.6922%
29	AUD (0.2613)	BRL (0.0225)	GBP (0.4784)	TRY (0.2378)	-0.1446%	-29.7894%
30	AUD (0.2701)	BRL (0.0389)	GBP (0.2775)	EUR (0.4135)	-0.0972%	-20.0281%
31	AUD (0.1900)	BRL (0.0000)	INR (0.4522)	IDR (0.3578)	-0.1225%	-25.2255%
32	AUD (0.1911)	BRL (0.0000)	INR (0.5062)	JPY (0.3027)	-0.1089%	-22.4360%
33	AUD (0.0966)	BRL (0.0000)	INR (0.4802)	KRW (0.4232)	-0.0519%	-10.6887%
34	AUD (0.2535)	BRL (0.0000)	INR (0.6113)	MXN (0.1352)	-0.1125%	-23.1692%
35	AUD (0.3254)	BRL (0.0000)	INR (0.6746)	RUB (0.0000)	-0.1070%	-22.0419%
36	AUD (0.3254)	BRL (0.0000)	INR (0.6746)	ZAR (0.0000)	-0.1070%	-22.0419%
37	AUD (0.2943)	BRL (0.0000)	INR (0.6432)	TRY (0.0625)	-0.1143%	-23.5559%
38	AUD (0.1161)	BRL (0.0000)	INR (0.4973)	EUR (0.3866)	-0.0827%	-17.0409%
39	AUD (0.2358)	BRL (0.0000)	IDR (0.4551)	JPY (0.3091)	-0.1402%	-28.8748%
40	AUD (0.0931)	BRL (0.0000)	IDR (0.4363)	KRW (0.4705)	-0.0744%	-15.3312%
41	AUD (0.1873)	BRL (0.0000)	IDR (0.5470)	MXN (0.2657)	-0.1524%	-31.4029%
42	AUD (0.3607)	BRL (0.0000)	IDR (0.6393)	RUB (0.0000)	-0.1492%	-30.7339%
43	AUD (0.3607)	BRL (0.0000)	IDR (0.6393)	ZAR (0.0000)	-0.1492%	-30.7339%
44	AUD (0.2949)	BRL (0.0000)	IDR (0.5848)	TRY (0.1203)	-0.1596%	-32.8751%
45	AUD (0.1392)	BRL (0.0000)	IDR (0.4532)	EUR (0.4077)	-0.1118%	-23.0328%
46	AUD (0.2004)	BRL (0.0000)	JPY (0.3049)	KRW (0.4947)	-0.0591%	-12.1792%
47	AUD (0.1158)	BRL (0.0000)	JPY (0.4366)	MXN (0.4476)	-0.1396%	-28.7510%
48	AUD (0.4407)	BRL (0.0529)	JPY (0.4640)	RUB (0.0424)	-0.1441%	-29.6939%
49	AUD (0.4379)	BRL (0.0536)	JPY (0.4630)	ZAR (0.0456)	-0.1401%	-28.8577%
50	AUD (0.3266)	BRL (0.0094)	JPY (0.4224)	TRY (0.2415)	-0.1555%	-32.0419%
51	AUD (0.2913)	BRL (0.0307)	JPY (0.2928)	EUR (0.3852)	-0.1047%	-21.5646%
52	AUD (0.0939)	BRL (0.0000)	KRW (0.6269)	MXN (0.2792)	-0.0501%	-10.3264%
53	AUD (0.2420)	BRL (0.0000)	KRW (0.7379)	RUB (0.0201)	-0.0324%	-6.6845%
54	AUD (0.2570)	BRL (0.0000)	KRW (0.7430)	ZAR (0.0000)	-0.0278%	-5.7226%
55	AUD (0.1617)	BRL (0.0000)	KRW (0.6628)	TRY (0.1754)	-0.0561%	-11.5649%
56	AUD (0.1009)	BRL (0.0000)	KRW (0.4942)	EUR (0.4049)	-0.0310%	-6.3844%
57	AUD (0.4542)	BRL (0.0354)	MXN (0.5104)	RUB (0.0000)	-0.1533%	-31.5863%
58	AUD (0.4542)	BRL (0.0354)	MXN (0.5104)	ZAR (0.0000)	-0.1533%	-31.5863%
59	AUD (0.3821)	BRL (0.0000)	MXN (0.4002)	TRY (0.2177)	-0.1687%	-34.7463%
60	AUD (0.1162)	BRL (0.0000)	MXN (0.3551)	EUR (0.5288)	-0.1022%	-21.0451%
61	AUD (0.8251)	BRL (0.0913)	RUB (0.0371)	ZAR (0.0465)	-0.1609%	-33.1437%
62	AUD (0.6000)	BRL (0.0186)	RUB (0.0113)	TRY (0.3701)	-0.1798%	-37.0465%
63	AUD (0.3484)	BRL (0.0248)	RUB (0.0261)	EUR (0.6007)	-0.0972%	-20.0312%
64	AUD (0.6053)	BRL (0.0209)	ZAR (0.0000)	TRY (0.3738)	-0.1782%	-36.7047%

65	AUD (0.3585)	BRL (0.0296)	ZAR (0.0095)	EUR (0.6024)	-0.0933%	-19.2150%
66	AUD (0.2461)	BRL (0.0000)	TRY (0.2095)	EUR (0.5444)	-0.1143%	-23.5387%
67	AUD (0.0000)	CAD (0.0311)	CNY (0.9487)	GBP (0.0202)	-0.0268%	-5.5130%
68	AUD (0.0000)	CAD (0.0304)	CNY (0.9185)	INR (0.0511)	-0.0286%	-5.8954%
69	AUD (0.0000)	CAD (0.0321)	CNY (0.9332)	IDR (0.0346)	-0.0299%	-6.1540%
70	AUD (0.0000)	CAD (0.0300)	CNY (0.9093)	JPY (0.0608)	-0.0310%	-6.3935%
71	AUD (0.0000)	CAD (0.0418)	CNY (0.9581)	KRW (0.0001)	-0.0264%	-5.4331%
72	AUD (0.0000)	CAD (0.0418)	CNY (0.9582)	MXN (0.0000)	-0.0264%	-5.4349%
73	AUD (0.0000)	CAD (0.0418)	CNY (0.9582)	RUB (0.0000)	-0.0264%	-5.4349%
74	AUD (0.0000)	CAD (0.0418)	CNY (0.9582)	ZAR (0.0000)	-0.0264%	-5.4349%
75	AUD (0.0000)	CAD (0.0418)	CNY (0.9582)	TRY (0.0000)	-0.0264%	-5.4349%
76	AUD (0.0000)	CAD (0.0077)	CNY (0.9261)	EUR (0.0661)	-0.0249%	-5.1342%
77	AUD (0.0000)	CAD (0.3502)	GBP (0.2074)	INR (0.4424)	-0.1056%	-21.7560%
78	AUD (0.0000)	CAD (0.3224)	GBP (0.2629)	IDR (0.4148)	-0.1311%	-27.0096%
79	AUD (0.0296)	CAD (0.4193)	GBP (0.2510)	JPY (0.3001)	-0.1192%	-24.5542%
80	AUD (0.0000)	CAD (0.3749)	GBP (0.2241)	KRW (0.4010)	-0.0659%	-13.5809%
81	AUD (0.0000)	CAD (0.4794)	GBP (0.3061)	MXN (0.2145)	-0.1263%	-26.0129%
82	AUD (0.0833)	CAD (0.6018)	GBP (0.3149)	RUB (0.0000)	-0.1210%	-24.9164%
83	AUD (0.0833)	CAD (0.6018)	GBP (0.3149)	ZAR (0.0000)	-0.1210%	-24.9164%
84	AUD (0.0048)	CAD (0.5322)	GBP (0.2983)	TRY (0.1648)	-0.1376%	-28.3424%
85	AUD (0.0537)	CAD (0.4694)	GBP (0.1730)	EUR (0.3039)	-0.1025%	-21.1173%
86	AUD (0.0000)	CAD (0.3929)	INR (0.3503)	IDR (0.2568)	-0.1219%	-25.1012%
87	AUD (0.0000)	CAD (0.3640)	INR (0.3970)	JPY (0.2390)	-0.1116%	-22.9847%
88	AUD (0.0000)	CAD (0.3507)	INR (0.3956)	KRW (0.2537)	-0.0781%	-16.0945%
89	AUD (0.0000)	CAD (0.5079)	INR (0.4921)	MXN (0.0000)	-0.1103%	-22.7136%
90	AUD (0.0000)	CAD (0.5079)	INR (0.4921)	RUB (0.0000)	-0.1103%	-22.7136%
91	AUD (0.0000)	CAD (0.5079)	INR (0.4921)	ZAR (0.0000)	-0.1103%	-22.7136%
92	AUD (0.0000)	CAD (0.5079)	INR (0.4921)	TRY (0.0000)	-0.1103%	-22.7136%
93	AUD (0.0000)	CAD (0.3085)	INR (0.4223)	EUR (0.2692)	-0.0930%	-19.1630%
94	AUD (0.0000)	CAD (0.4155)	IDR (0.3421)	JPY (0.2424)	-0.1353%	-27.8780%
95	AUD (0.0000)	CAD (0.3556)	IDR (0.3465)	KRW (0.2979)	-0.0957%	-19.7126%
96	AUD (0.0000)	CAD (0.4773)	IDR (0.4239)	MXN (0.0987)	-0.1425%	-29.3638%
97	AUD (0.0000)	CAD (0.5500)	IDR (0.4500)	RUB (0.0000)	-0.1403%	-28.9106%
98	AUD (0.0000)	CAD (0.5500)	IDR (0.4500)	ZAR (0.0000)	-0.1403%	-28.9106%
99	AUD (0.0000)	CAD (0.5271)	IDR (0.4319)	TRY (0.0410)	-0.1442%	-29.7006%
100	AUD (0.0000)	CAD (0.3390)	IDR (0.3769)	EUR (0.2841)	-0.1175%	-24.2088%
101	AUD (0.0000)	CAD (0.4307)	JPY (0.2528)	KRW (0.3165)	-0.0824%	-16.9845%
102	AUD (0.0000)	CAD (0.3751)	JPY (0.3468)	MXN (0.2782)	-0.1343%	-27.6577%
103	AUD (0.0659)	CAD (0.6047)	JPY (0.3294)	RUB (0.0000)	-0.1274%	-26.2401%
104	AUD (0.0659)	CAD (0.6047)	JPY (0.3294)	ZAR (0.0000)	-0.1274%	-26.2401%
105	AUD (0.0000)	CAD (0.5406)	JPY (0.3157)	TRY (0.1437)	-0.1416%	-29.1678%
106	AUD (0.0413)	CAD (0.4742)	JPY (0.2565)	EUR (0.2281)	-0.1109%	-22.8370%
107	AUD (0.0000)	CAD (0.4399)	KRW (0.4372)	MXN (0.1229)	-0.0715%	-14.7190%
108	AUD (0.0000)	CAD (0.5240)	KRW (0.4760)	RUB (0.0000)	-0.0625%	-12.8653%

109	AUD (0.0000)	CAD (0.5240)	KRW (0.4760)	ZAR (0.0000)	-0.0625%	-12.8653%
110	AUD (0.0000)	CAD (0.4729)	KRW (0.4355)	TRY (0.0915)	-0.0777%	-16.0033%
111	AUD (0.0000)	CAD (0.3348)	KRW (0.3718)	EUR (0.2934)	-0.0554%	-11.4137%
112	AUD (0.0426)	CAD (0.7259)	MXN (0.2316)	RUB (0.0000)	-0.1371%	-28.2418%
113	AUD (0.0426)	CAD (0.7259)	MXN (0.2316)	ZAR (0.0000)	-0.1371%	-28.2418%
114	AUD (0.0001)	CAD (0.6940)	MXN (0.1652)	TRY (0.1407)	-0.1493%	-30.7489%
115	AUD (0.0000)	CAD (0.3782)	MXN (0.2291)	EUR (0.3927)	-0.1073%	-22.0965%
116	AUD (0.1367)	CAD (0.8633)	RUB (0.0000)	ZAR (0.0000)	-0.1317%	-27.1313%
117	AUD (0.0427)	CAD (0.7669)	RUB (0.0000)	TRY (0.1905)	-0.1503%	-30.9556%
118	AUD (0.0673)	CAD (0.5399)	RUB (0.0000)	EUR (0.3928)	-0.1016%	-20.9308%
119	AUD (0.0427)	CAD (0.7669)	ZAR (0.0000)	TRY (0.1905)	-0.1503%	-30.9556%
120	AUD (0.0673)	CAD (0.5399)	ZAR (0.0000)	EUR (0.3928)	-0.1016%	-20.9308%
121	AUD (0.0007)	CAD (0.4868)	TRY (0.1434)	EUR (0.3691)	-0.1174%	-24.1826%
122	AUD (0.0000)	CNY (0.9200)	GBP (0.0260)	INR (0.0541)	-0.0275%	-5.6677%
123	AUD (0.0000)	CNY (0.9282)	GBP (0.0303)	IDR (0.0416)	-0.0296%	-6.1004%
124	AUD (0.0000)	CNY (0.9091)	GBP (0.0282)	JPY (0.0627)	-0.0301%	-6.2074%
125	AUD (0.0073)	CNY (0.9608)	GBP (0.0273)	KRW (0.0046)	-0.0247%	-5.0815%
126	AUD (0.0090)	CNY (0.9632)	GBP (0.0277)	MXN (0.0000)	-0.0251%	-5.1624%
127	AUD (0.0090)	CNY (0.9632)	GBP (0.0277)	RUB (0.0000)	-0.0251%	-5.1624%
128	AUD (0.0090)	CNY (0.9632)	GBP (0.0277)	ZAR (0.0000)	-0.0251%	-5.1624%
129	AUD (0.0090)	CNY (0.9632)	GBP (0.0277)	TRY (0.0000)	-0.0251%	-5.1624%
130	AUD (0.0000)	CNY (0.9310)	GBP (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
131	AUD (0.0000)	CNY (0.9260)	INR (0.0478)	IDR (0.0262)	-0.0285%	-5.8797%
132	AUD (0.0000)	CNY (0.8841)	INR (0.0539)	JPY (0.0620)	-0.0316%	-6.5051%
133	AUD (0.0045)	CNY (0.9397)	INR (0.0558)	KRW (0.0000)	-0.0262%	-5.3969%
134	AUD (0.0045)	CNY (0.9397)	INR (0.0558)	MXN (0.0000)	-0.0262%	-5.3969%
135	AUD (0.0045)	CNY (0.9397)	INR (0.0558)	RUB (0.0000)	-0.0262%	-5.3969%
136	AUD (0.0045)	CNY (0.9397)	INR (0.0558)	ZAR (0.0000)	-0.0262%	-5.3969%
137	AUD (0.0045)	CNY (0.9397)	INR (0.0558)	TRY (0.0000)	-0.0262%	-5.3969%
138	AUD (0.0000)	CNY (0.8885)	INR (0.0480)	EUR (0.0635)	-0.0273%	-5.6167%
139	AUD (0.0000)	CNY (0.9072)	IDR (0.0322)	JPY (0.0606)	-0.0320%	-6.5924%
140	AUD (0.0058)	CNY (0.9516)	IDR (0.0391)	KRW (0.0036)	-0.0276%	-5.6778%
141	AUD (0.0071)	CNY (0.9534)	IDR (0.0394)	MXN (0.0000)	-0.0279%	-5.7458%
142	AUD (0.0071)	CNY (0.9534)	IDR (0.0394)	RUB (0.0000)	-0.0279%	-5.7458%
143	AUD (0.0071)	CNY (0.9534)	IDR (0.0394)	ZAR (0.0000)	-0.0279%	-5.7458%
144	AUD (0.0071)	CNY (0.9534)	IDR (0.0394)	TRY (0.0000)	-0.0279%	-5.7458%
145	AUD (0.0000)	CNY (0.9050)	IDR (0.0307)	EUR (0.0643)	-0.0281%	-5.7784%
146	AUD (0.0085)	CNY (0.9290)	JPY (0.0626)	KRW (0.0000)	-0.0290%	-5.9725%
147	AUD (0.0023)	CNY (0.9221)	JPY (0.0647)	MXN (0.0109)	-0.0299%	-6.1674%
148	AUD (0.0085)	CNY (0.9290)	JPY (0.0626)	RUB (0.0000)	-0.0290%	-5.9725%
149	AUD (0.0085)	CNY (0.9290)	JPY (0.0626)	ZAR (0.0000)	-0.0290%	-5.9725%
150	AUD (0.0085)	CNY (0.9290)	JPY (0.0626)	TRY (0.0000)	-0.0290%	-5.9725%
151	AUD (0.0000)	CNY (0.9024)	JPY (0.0501)	EUR (0.0476)	-0.0284%	-5.8410%
152	AUD (0.0143)	CNY (0.9762)	KRW (0.0094)	MXN (0.0000)	-0.0233%	-4.7940%

153	AUD (0.0143)	CNY (0.9762)	KRW (0.0094)	RUB (0.0000)	-0.0233%	-4.7940%
154	AUD (0.0143)	CNY (0.9762)	KRW (0.0094)	ZAR (0.0000)	-0.0233%	-4.7940%
155	AUD (0.0143)	CNY (0.9762)	KRW (0.0094)	TRY (0.0000)	-0.0233%	-4.7940%
156	AUD (0.0000)	CNY (0.9310)	KRW (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
157	AUD (0.0182)	CNY (0.9818)	MXN (0.0000)	RUB (0.0000)	-0.0240%	-4.9542%
158	AUD (0.0182)	CNY (0.9818)	MXN (0.0000)	ZAR (0.0000)	-0.0240%	-4.9542%
159	AUD (0.0182)	CNY (0.9818)	MXN (0.0000)	TRY (0.0000)	-0.0240%	-4.9542%
160	AUD (0.0000)	CNY (0.9310)	MXN (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
161	AUD (0.0182)	CNY (0.9818)	RUB (0.0000)	ZAR (0.0000)	-0.0240%	-4.9542%
162	AUD (0.0182)	CNY (0.9818)	RUB (0.0000)	TRY (0.0000)	-0.0240%	-4.9542%
163	AUD (0.0000)	CNY (0.9310)	RUB (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
164	AUD (0.0182)	CNY (0.9818)	ZAR (0.0000)	TRY (0.0000)	-0.0240%	-4.9542%
165	AUD (0.0000)	CNY (0.9310)	ZAR (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
166	AUD (0.0000)	CNY (0.9310)	TRY (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
167	AUD (0.0386)	GBP (0.2995)	INR (0.3426)	IDR (0.3193)	-0.1145%	-23.5841%
168	AUD (0.0673)	GBP (0.2592)	INR (0.4157)	JPY (0.2578)	-0.1032%	-21.2529%
169	AUD (0.0163)	GBP (0.2541)	INR (0.4184)	KRW (0.3112)	-0.0611%	-12.5901%
170	AUD (0.0979)	GBP (0.3204)	INR (0.4879)	MXN (0.0937)	-0.1040%	-21.4331%
171	AUD (0.1439)	GBP (0.3275)	INR (0.5286)	RUB (0.0000)	-0.1001%	-20.6209%
172	AUD (0.1439)	GBP (0.3275)	INR (0.5286)	ZAR (0.0000)	-0.1001%	-20.6209%
173	AUD (0.1274)	GBP (0.3250)	INR (0.5117)	TRY (0.0359)	-0.1044%	-21.5022%
174	AUD (0.0763)	GBP (0.1742)	INR (0.4677)	EUR (0.2819)	-0.0856%	-17.6402%
175	AUD (0.0622)	GBP (0.3097)	IDR (0.3829)	JPY (0.2452)	-0.1271%	-26.1820%
176	AUD (0.0000)	GBP (0.2906)	IDR (0.3956)	KRW (0.3138)	-0.0853%	-17.5629%
177	AUD (0.0179)	GBP (0.3507)	IDR (0.4521)	MXN (0.1793)	-0.1345%	-27.7003%
178	AUD (0.1167)	GBP (0.3789)	IDR (0.5044)	RUB (0.0000)	-0.1309%	-26.9685%
179	AUD (0.1167)	GBP (0.3789)	IDR (0.5044)	ZAR (0.0000)	-0.1309%	-26.9685%
180	AUD (0.0875)	GBP (0.3708)	IDR (0.4788)	TRY (0.0629)	-0.1367%	-28.1685%
181	AUD (0.0689)	GBP (0.2424)	IDR (0.4390)	EUR (0.2497)	-0.1146%	-23.6080%
182	AUD (0.0913)	GBP (0.2910)	JPY (0.2700)	KRW (0.3478)	-0.0697%	-14.3485%
183	AUD (0.0000)	GBP (0.2944)	JPY (0.3577)	MXN (0.3480)	-0.1267%	-26.1001%
184	AUD (0.2332)	GBP (0.3772)	JPY (0.3608)	RUB (0.0288)	-0.1230%	-25.3346%
185	AUD (0.2530)	GBP (0.3824)	JPY (0.3598)	ZAR (0.0048)	-0.1176%	-24.2325%
186	AUD (0.1410)	GBP (0.3483)	JPY (0.3357)	TRY (0.1750)	-0.1352%	-27.8575%
187	AUD (0.2199)	GBP (0.2895)	JPY (0.3009)	EUR (0.1897)	-0.1062%	-21.8784%
188	AUD (0.0008)	GBP (0.3101)	KRW (0.4615)	MXN (0.2276)	-0.0611%	-12.5769%
189	AUD (0.1156)	GBP (0.3365)	KRW (0.5375)	RUB (0.0103)	-0.0465%	-9.5796%
190	AUD (0.1228)	GBP (0.3379)	KRW (0.5394)	ZAR (0.0000)	-0.0442%	-9.1006%
191	AUD (0.0531)	GBP (0.3220)	KRW (0.4850)	TRY (0.1398)	-0.0660%	-13.5985%
192	AUD (0.0687)	GBP (0.1829)	KRW (0.4485)	EUR (0.2999)	-0.0390%	-8.0412%
193	AUD (0.1930)	GBP (0.4538)	MXN (0.3532)	RUB (0.0000)	-0.1279%	-26.3450%
194	AUD (0.1930)	GBP (0.4538)	MXN (0.3532)	ZAR (0.0000)	-0.1279%	-26.3450%
195	AUD (0.1417)	GBP (0.4348)	MXN (0.2790)	TRY (0.1445)	-0.1407%	-28.9908%
196	AUD (0.0752)	GBP (0.2154)	MXN (0.3182)	EUR (0.3912)	-0.1039%	-21.4127%

197	AUD (0.4382)	GBP (0.5382)	RUB (0.0237)	ZAR (0.0000)	-0.1231%	-25.3573%
198	AUD (0.2746)	GBP (0.4783)	RUB (0.0000)	TRY (0.2470)	-0.1437%	-29.6040%
199	AUD (0.2844)	GBP (0.2713)	RUB (0.0212)	EUR (0.4230)	-0.0977%	-20.1327%
200	AUD (0.2746)	GBP (0.4783)	ZAR (0.0000)	TRY (0.2470)	-0.1437%	-29.6039%
201	AUD (0.3012)	GBP (0.2750)	ZAR (0.0000)	EUR (0.4238)	-0.0934%	-19.2415%
202	AUD (0.1773)	GBP (0.2542)	TRY (0.1904)	EUR (0.3781)	-0.1157%	-23.8263%
203	AUD (0.1157)	INR (0.3744)	IDR (0.2533)	JPY (0.2566)	-0.1196%	-24.6296%
204	AUD (0.0371)	INR (0.3465)	IDR (0.2773)	KRW (0.3391)	-0.0748%	-15.4119%
205	AUD (0.1415)	INR (0.4121)	IDR (0.3488)	MXN (0.0976)	-0.1260%	-25.9598%
206	AUD (0.1900)	INR (0.4522)	IDR (0.3578)	RUB (0.0000)	-0.1225%	-25.2255%
207	AUD (0.1900)	INR (0.4522)	IDR (0.3578)	ZAR (0.0000)	-0.1225%	-25.2255%
208	AUD (0.1900)	INR (0.4522)	IDR (0.3578)	TRY (0.0000)	-0.1225%	-25.2255%
209	AUD (0.0460)	INR (0.3580)	IDR (0.2654)	EUR (0.3306)	-0.0977%	-20.1276%
210	AUD (0.0728)	INR (0.4165)	JPY (0.2427)	KRW (0.2680)	-0.0736%	-15.1699%
211	AUD (0.0655)	INR (0.3922)	JPY (0.3240)	MXN (0.2183)	-0.1179%	-24.2843%
212	AUD (0.1848)	INR (0.5029)	JPY (0.3036)	RUB (0.0087)	-0.1107%	-22.8141%
213	AUD (0.1911)	INR (0.5062)	JPY (0.3027)	ZAR (0.0000)	-0.1089%	-22.4360%
214	AUD (0.1701)	INR (0.4853)	JPY (0.3012)	TRY (0.0434)	-0.1140%	-23.4854%
215	AUD (0.0941)	INR (0.4411)	JPY (0.2079)	EUR (0.2570)	-0.0922%	-18.9890%
216	AUD (0.0613)	INR (0.4490)	KRW (0.4115)	MXN (0.0782)	-0.0566%	-11.6562%
217	AUD (0.0966)	INR (0.4802)	KRW (0.4232)	RUB (0.0000)	-0.0519%	-10.6887%
218	AUD (0.0966)	INR (0.4802)	KRW (0.4232)	ZAR (0.0000)	-0.0519%	-10.6887%
219	AUD (0.0903)	INR (0.4737)	KRW (0.4205)	TRY (0.0155)	-0.0541%	-11.1386%
220	AUD (0.0028)	INR (0.4010)	KRW (0.2845)	EUR (0.3117)	-0.0504%	-10.3791%
221	AUD (0.2535)	INR (0.6113)	MXN (0.1352)	RUB (0.0000)	-0.1125%	-23.1692%
222	AUD (0.2535)	INR (0.6113)	MXN (0.1352)	ZAR (0.0000)	-0.1125%	-23.1692%
223	AUD (0.2432)	INR (0.6001)	MXN (0.1237)	TRY (0.0330)	-0.1159%	-23.8736%
224	AUD (0.0534)	INR (0.4421)	MXN (0.1208)	EUR (0.3837)	-0.0878%	-18.0858%
225	AUD (0.3254)	INR (0.6746)	RUB (0.0000)	ZAR (0.0000)	-0.1070%	-22.0419%
226	AUD (0.2943)	INR (0.6432)	RUB (0.0000)	TRY (0.0625)	-0.1143%	-23.5559%
227	AUD (0.1161)	INR (0.4973)	RUB (0.0000)	EUR (0.3866)	-0.0827%	-17.0409%
228	AUD (0.2943)	INR (0.6432)	ZAR (0.0000)	TRY (0.0625)	-0.1143%	-23.5559%
229	AUD (0.1161)	INR (0.4973)	ZAR (0.0000)	EUR (0.3866)	-0.0827%	-17.0409%
230	AUD (0.1088)	INR (0.4898)	TRY (0.0167)	EUR (0.3848)	-0.0848%	-17.4682%
231	AUD (0.0792)	IDR (0.3583)	JPY (0.2332)	KRW (0.3294)	-0.0900%	-18.5499%
232	AUD (0.0273)	IDR (0.3370)	JPY (0.3277)	MXN (0.3080)	-0.1434%	-29.5388%
233	AUD (0.2350)	IDR (0.4545)	JPY (0.3093)	RUB (0.0011)	-0.1404%	-28.9177%
234	AUD (0.2358)	IDR (0.4551)	JPY (0.3091)	ZAR (0.0000)	-0.1402%	-28.8748%
235	AUD (0.1836)	IDR (0.4130)	JPY (0.3049)	TRY (0.0985)	-0.1488%	-30.6529%
236	AUD (0.1235)	IDR (0.3877)	JPY (0.2040)	EUR (0.2849)	-0.1171%	-24.1252%
237	AUD (0.0077)	IDR (0.3969)	KRW (0.4238)	MXN (0.1716)	-0.0839%	-17.2917%
238	AUD (0.0931)	IDR (0.4363)	KRW (0.4705)	RUB (0.0000)	-0.0744%	-15.3312%
239	AUD (0.0931)	IDR (0.4363)	KRW (0.4705)	ZAR (0.0000)	-0.0744%	-15.3312%
240	AUD (0.0717)	IDR (0.4181)	KRW (0.4582)	TRY (0.0519)	-0.0809%	-16.6606%

241	AUD (0.0024)	IDR (0.3535)	KRW (0.3282)	EUR (0.3158)	-0.0681%	-14.0232%
242	AUD (0.1873)	IDR (0.5470)	MXN (0.2657)	RUB (0.0000)	-0.1524%	-31.4029%
243	AUD (0.1873)	IDR (0.5470)	MXN (0.2657)	ZAR (0.0000)	-0.1524%	-31.4029%
244	AUD (0.1762)	IDR (0.5346)	MXN (0.2488)	TRY (0.0404)	-0.1557%	-32.0802%
245	AUD (0.0078)	IDR (0.3866)	MXN (0.2183)	EUR (0.3873)	-0.1163%	-23.9667%
246	AUD (0.3607)	IDR (0.6393)	RUB (0.0000)	ZAR (0.0000)	-0.1492%	-30.7339%
247	AUD (0.2949)	IDR (0.5848)	RUB (0.0000)	TRY (0.1203)	-0.1596%	-32.8751%
248	AUD (0.1392)	IDR (0.4532)	RUB (0.0000)	EUR (0.4077)	-0.1118%	-23.0328%
249	AUD (0.2949)	IDR (0.5848)	ZAR (0.0000)	TRY (0.1203)	-0.1596%	-32.8751%
250	AUD (0.1392)	IDR (0.4532)	ZAR (0.0000)	EUR (0.4077)	-0.1118%	-23.0328%
251	AUD (0.1091)	IDR (0.4283)	TRY (0.0639)	EUR (0.3987)	-0.1181%	-24.3386%
252	AUD (0.0000)	JPY (0.3341)	KRW (0.3300)	MXN (0.3359)	-0.0892%	-18.3746%
253	AUD (0.1788)	JPY (0.3073)	KRW (0.4855)	RUB (0.0284)	-0.0660%	-13.5871%
254	AUD (0.2004)	JPY (0.3049)	KRW (0.4947)	ZAR (0.0000)	-0.0591%	-12.1792%
255	AUD (0.1199)	JPY (0.2962)	KRW (0.4327)	TRY (0.1513)	-0.0827%	-17.0322%
256	AUD (0.1060)	JPY (0.2054)	KRW (0.3959)	EUR (0.2926)	-0.0512%	-10.5495%
257	AUD (0.1158)	JPY (0.4366)	MXN (0.4476)	RUB (0.0000)	-0.1396%	-28.7510%
258	AUD (0.1158)	JPY (0.4366)	MXN (0.4476)	ZAR (0.0000)	-0.1396%	-28.7510%
259	AUD (0.0917)	JPY (0.4247)	MXN (0.4059)	TRY (0.0777)	-0.1463%	-30.1299%
260	AUD (0.0210)	JPY (0.3090)	MXN (0.3765)	EUR (0.2935)	-0.1159%	-23.8672%
261	AUD (0.4414)	JPY (0.4674)	RUB (0.0433)	ZAR (0.0479)	-0.1444%	-29.7421%
262	AUD (0.3171)	JPY (0.4241)	RUB (0.0237)	TRY (0.2351)	-0.1588%	-32.7056%
263	AUD (0.2850)	JPY (0.2954)	RUB (0.0349)	EUR (0.3847)	-0.1090%	-22.4574%
264	AUD (0.3320)	JPY (0.4227)	ZAR (0.0000)	TRY (0.2453)	-0.1551%	-31.9606%
265	AUD (0.2904)	JPY (0.2938)	ZAR (0.0284)	EUR (0.3874)	-0.1046%	-21.5479%
266	AUD (0.1937)	JPY (0.2785)	TRY (0.1825)	EUR (0.3453)	-0.1227%	-25.2786%
267	AUD (0.0939)	KRW (0.6269)	MXN (0.2792)	RUB (0.0000)	-0.0501%	-10.3264%
268	AUD (0.0939)	KRW (0.6269)	MXN (0.2792)	ZAR (0.0000)	-0.0501%	-10.3264%
269	AUD (0.0668)	KRW (0.6007)	MXN (0.2339)	TRY (0.0985)	-0.0624%	-12.8623%
270	AUD (0.0000)	KRW (0.3918)	MXN (0.2288)	EUR (0.3794)	-0.0526%	-10.8453%
271	AUD (0.2420)	KRW (0.7379)	RUB (0.0201)	ZAR (0.0000)	-0.0324%	-6.6845%
272	AUD (0.1593)	KRW (0.6625)	RUB (0.0046)	TRY (0.1736)	-0.0569%	-11.7244%
273	AUD (0.0903)	KRW (0.4911)	RUB (0.0147)	EUR (0.4039)	-0.0344%	-7.0872%
274	AUD (0.1617)	KRW (0.6628)	ZAR (0.0000)	TRY (0.1754)	-0.0561%	-11.5649%
275	AUD (0.1009)	KRW (0.4942)	ZAR (0.0000)	EUR (0.4049)	-0.0310%	-6.3844%
276	AUD (0.0439)	KRW (0.4521)	TRY (0.1190)	EUR (0.3850)	-0.0501%	-10.3148%
277	AUD (0.4773)	MXN (0.5227)	RUB (0.0000)	ZAR (0.0000)	-0.1508%	-31.0591%
278	AUD (0.3821)	MXN (0.4002)	RUB (0.0000)	TRY (0.2177)	-0.1687%	-34.7463%
279	AUD (0.1162)	MXN (0.3551)	RUB (0.0000)	EUR (0.5288)	-0.1022%	-21.0451%
280	AUD (0.3821)	MXN (0.4002)	ZAR (0.0000)	TRY (0.2177)	-0.1687%	-34.7463%
281	AUD (0.1162)	MXN (0.3551)	ZAR (0.0000)	EUR (0.5288)	-0.1022%	-21.0451%
282	AUD (0.0880)	MXN (0.3084)	TRY (0.0935)	EUR (0.5101)	-0.1116%	-22.9831%
283	AUD (0.6101)	RUB (0.0128)	ZAR (0.0000)	TRY (0.3771)	-0.1793%	-36.9413%
284	AUD (0.3584)	RUB (0.0279)	ZAR (0.0090)	EUR (0.6047)	-0.0961%	-19.8015%

285	AUD (0.2409)	RUB (0.0090)	TRY (0.2059)	EUR (0.5442)	-0.1157%	-23.8328%
286	AUD (0.2461)	ZAR (0.0000)	TRY (0.2095)	EUR (0.5444)	-0.1143%	-23.5387%
287	BRL (0.0218)	CAD (0.0109)	CNY (0.9470)	GBP (0.0203)	-0.0289%	-5.9549%
288	BRL (0.0151)	CAD (0.0182)	CNY (0.9236)	INR (0.0431)	-0.0298%	-6.1286%
289	BRL (0.0169)	CAD (0.0195)	CNY (0.9398)	IDR (0.0237)	-0.0304%	-6.2703%
290	BRL (0.0195)	CAD (0.0122)	CNY (0.9089)	JPY (0.0595)	-0.0329%	-6.7676%
291	BRL (0.0218)	CAD (0.0217)	CNY (0.9566)	KRW (0.0000)	-0.0285%	-5.8756%
292	BRL (0.0218)	CAD (0.0217)	CNY (0.9566)	MXN (0.0000)	-0.0285%	-5.8756%
293	BRL (0.0218)	CAD (0.0217)	CNY (0.9566)	RUB (0.0000)	-0.0285%	-5.8756%
294	BRL (0.0218)	CAD (0.0217)	CNY (0.9566)	ZAR (0.0000)	-0.0285%	-5.8756%
295	BRL (0.0218)	CAD (0.0217)	CNY (0.9566)	TRY (0.0000)	-0.0285%	-5.8756%
296	BRL (0.0166)	CAD (0.0000)	CNY (0.9228)	EUR (0.0606)	-0.0272%	-5.6042%
297	BRL (0.0000)	CAD (0.3502)	GBP (0.2074)	INR (0.4424)	-0.1056%	-21.7560%
298	BRL (0.0000)	CAD (0.3224)	GBP (0.2629)	IDR (0.4148)	-0.1311%	-27.0096%
299	BRL (0.0233)	CAD (0.4226)	GBP (0.2537)	JPY (0.3003)	-0.1208%	-24.8926%
300	BRL (0.0000)	CAD (0.3749)	GBP (0.2241)	KRW (0.4010)	-0.0659%	-13.5809%
301	BRL (0.0071)	CAD (0.4752)	GBP (0.3063)	MXN (0.2114)	-0.1268%	-26.1268%
302	BRL (0.0394)	CAD (0.6372)	GBP (0.3234)	RUB (0.0000)	-0.1232%	-25.3795%
303	BRL (0.0394)	CAD (0.6372)	GBP (0.3234)	ZAR (0.0000)	-0.1232%	-25.3795%
304	BRL (0.0000)	CAD (0.5355)	GBP (0.2986)	TRY (0.1659)	-0.1376%	-28.3519%
305	BRL (0.0183)	CAD (0.4990)	GBP (0.1784)	EUR (0.3044)	-0.1033%	-21.2760%
306	BRL (0.0000)	CAD (0.3929)	INR (0.3503)	IDR (0.2568)	-0.1219%	-25.1012%
307	BRL (0.0000)	CAD (0.3640)	INR (0.3970)	JPY (0.2390)	-0.1116%	-22.9847%
308	BRL (0.0000)	CAD (0.3507)	INR (0.3956)	KRW (0.2537)	-0.0781%	-16.0945%
309	BRL (0.0000)	CAD (0.5079)	INR (0.4921)	MXN (0.0000)	-0.1103%	-22.7136%
310	BRL (0.0000)	CAD (0.5079)	INR (0.4921)	RUB (0.0000)	-0.1103%	-22.7136%
311	BRL (0.0000)	CAD (0.5079)	INR (0.4921)	ZAR (0.0000)	-0.1103%	-22.7136%
312	BRL (0.0000)	CAD (0.5079)	INR (0.4921)	TRY (0.0000)	-0.1103%	-22.7136%
313	BRL (0.0000)	CAD (0.3085)	INR (0.4223)	EUR (0.2692)	-0.0930%	-19.1630%
314	BRL (0.0000)	CAD (0.4155)	IDR (0.3421)	JPY (0.2424)	-0.1353%	-27.8780%
315	BRL (0.0000)	CAD (0.3556)	IDR (0.3465)	KRW (0.2979)	-0.0957%	-19.7126%
316	BRL (0.0000)	CAD (0.4773)	IDR (0.4239)	MXN (0.0987)	-0.1425%	-29.3638%
317	BRL (0.0000)	CAD (0.5500)	IDR (0.4500)	RUB (0.0000)	-0.1403%	-28.9106%
318	BRL (0.0000)	CAD (0.5500)	IDR (0.4500)	ZAR (0.0000)	-0.1403%	-28.9106%
319	BRL (0.0000)	CAD (0.5271)	IDR (0.4319)	TRY (0.0410)	-0.1442%	-29.7006%
320	BRL (0.0000)	CAD (0.3390)	IDR (0.3769)	EUR (0.2841)	-0.1175%	-24.2088%
321	BRL (0.0000)	CAD (0.4307)	JPY (0.2528)	KRW (0.3165)	-0.0824%	-16.9845%
322	BRL (0.0000)	CAD (0.3751)	JPY (0.3468)	MXN (0.2782)	-0.1343%	-27.6577%
323	BRL (0.0236)	CAD (0.6437)	JPY (0.3327)	RUB (0.0000)	-0.1287%	-26.5023%
324	BRL (0.0236)	CAD (0.6437)	JPY (0.3327)	ZAR (0.0000)	-0.1287%	-26.5023%
325	BRL (0.0000)	CAD (0.5406)	JPY (0.3157)	TRY (0.1437)	-0.1416%	-29.1678%
326	BRL (0.0108)	CAD (0.5008)	JPY (0.2582)	EUR (0.2301)	-0.1112%	-22.8980%
327	BRL (0.0000)	CAD (0.4399)	KRW (0.4372)	MXN (0.1229)	-0.0715%	-14.7190%
328	BRL (0.0000)	CAD (0.5240)	KRW (0.4760)	RUB (0.0000)	-0.0625%	-12.8653%



329	BRL (0.0000)	CAD (0.5240)	KRW (0.4760)	ZAR (0.0000)	-0.0625%	-12.8653%
330	BRL (0.0000)	CAD (0.4729)	KRW (0.4355)	TRY (0.0915)	-0.0777%	-16.0033%
331	BRL (0.0000)	CAD (0.3348)	KRW (0.3718)	EUR (0.2934)	-0.0554%	-11.4137%
332	BRL (0.0048)	CAD (0.7523)	MXN (0.2429)	RUB (0.0000)	-0.1373%	-28.2884%
333	BRL (0.0048)	CAD (0.7523)	MXN (0.2429)	ZAR (0.0000)	-0.1373%	-28.2884%
334	BRL (0.0000)	CAD (0.6941)	MXN (0.1652)	TRY (0.1407)	-0.1493%	-30.7491%
335	BRL (0.0000)	CAD (0.3782)	MXN (0.2291)	EUR (0.3927)	-0.1073%	-22.0965%
336	BRL (0.0420)	CAD (0.9580)	RUB (0.0000)	ZAR (0.0000)	-0.1338%	-27.5627%
337	BRL (0.0000)	CAD (0.7991)	RUB (0.0000)	TRY (0.2009)	-0.1508%	-31.0698%
338	BRL (0.0128)	CAD (0.5883)	RUB (0.0000)	EUR (0.3989)	-0.1015%	-20.9028%
339	BRL (0.0000)	CAD (0.7991)	ZAR (0.0000)	TRY (0.2009)	-0.1508%	-31.0698%
340	BRL (0.0128)	CAD (0.5883)	ZAR (0.0000)	EUR (0.3989)	-0.1015%	-20.9028%
341	BRL (0.0000)	CAD (0.4873)	TRY (0.1435)	EUR (0.3692)	-0.1174%	-24.1835%
342	BRL (0.0165)	CNY (0.9187)	GBP (0.0217)	INR (0.0430)	-0.0297%	-6.1233%
343	BRL (0.0175)	CNY (0.9302)	GBP (0.0249)	IDR (0.0273)	-0.0308%	-6.3475%
344	BRL (0.0196)	CNY (0.8984)	GBP (0.0221)	JPY (0.0599)	-0.0333%	-6.8559%
345	BRL (0.0238)	CNY (0.9528)	GBP (0.0234)	KRW (0.0000)	-0.0284%	-5.8427%
346	BRL (0.0238)	CNY (0.9528)	GBP (0.0234)	MXN (0.0000)	-0.0284%	-5.8427%
347	BRL (0.0238)	CNY (0.9528)	GBP (0.0234)	RUB (0.0000)	-0.0284%	-5.8427%
348	BRL (0.0238)	CNY (0.9528)	GBP (0.0234)	ZAR (0.0000)	-0.0284%	-5.8427%
349	BRL (0.0238)	CNY (0.9528)	GBP (0.0234)	TRY (0.0000)	-0.0284%	-5.8427%
350	BRL (0.0166)	CNY (0.9228)	GBP (0.0000)	EUR (0.0606)	-0.0272%	-5.6042%
351	BRL (0.0159)	CNY (0.9280)	INR (0.0406)	IDR (0.0155)	-0.0298%	-6.1423%
352	BRL (0.0145)	CNY (0.8816)	INR (0.0438)	JPY (0.0601)	-0.0336%	-6.9182%
353	BRL (0.0188)	CNY (0.9369)	INR (0.0444)	KRW (0.0000)	-0.0286%	-5.8916%
354	BRL (0.0188)	CNY (0.9369)	INR (0.0444)	MXN (0.0000)	-0.0286%	-5.8916%
355	BRL (0.0188)	CNY (0.9369)	INR (0.0444)	RUB (0.0000)	-0.0286%	-5.8916%
356	BRL (0.0188)	CNY (0.9369)	INR (0.0444)	ZAR (0.0000)	-0.0286%	-5.8916%
357	BRL (0.0188)	CNY (0.9369)	INR (0.0444)	TRY (0.0000)	-0.0286%	-5.8916%
358	BRL (0.0096)	CNY (0.8892)	INR (0.0419)	EUR (0.0593)	-0.0286%	-5.8954%
359	BRL (0.0182)	CNY (0.9051)	IDR (0.0175)	JPY (0.0592)	-0.0335%	-6.9108%
360	BRL (0.0208)	CNY (0.9540)	IDR (0.0252)	KRW (0.0000)	-0.0293%	-6.0331%
361	BRL (0.0208)	CNY (0.9540)	IDR (0.0252)	MXN (0.0000)	-0.0293%	-6.0331%
362	BRL (0.0208)	CNY (0.9540)	IDR (0.0252)	RUB (0.0000)	-0.0293%	-6.0331%
363	BRL (0.0208)	CNY (0.9540)	IDR (0.0252)	ZAR (0.0000)	-0.0293%	-6.0331%
364	BRL (0.0208)	CNY (0.9540)	IDR (0.0252)	TRY (0.0000)	-0.0293%	-6.0331%
365	BRL (0.0119)	CNY (0.9067)	IDR (0.0217)	EUR (0.0596)	-0.0291%	-5.9918%
366	BRL (0.0220)	CNY (0.9177)	JPY (0.0603)	KRW (0.0000)	-0.0321%	-6.6162%
367	BRL (0.0220)	CNY (0.9177)	JPY (0.0603)	MXN (0.0000)	-0.0321%	-6.6162%
368	BRL (0.0220)	CNY (0.9177)	JPY (0.0603)	RUB (0.0000)	-0.0321%	-6.6162%
369	BRL (0.0220)	CNY (0.9177)	JPY (0.0603)	ZAR (0.0000)	-0.0321%	-6.6162%
370	BRL (0.0220)	CNY (0.9177)	JPY (0.0603)	TRY (0.0000)	-0.0321%	-6.6162%
371	BRL (0.0164)	CNY (0.8944)	JPY (0.0499)	EUR (0.0392)	-0.0313%	-6.4531%
372	BRL (0.0264)	CNY (0.9736)	KRW (0.0000)	MXN (0.0000)	-0.0271%	-5.5828%

373	BRL (0.0264)	CNY (0.9736)	KRW (0.0000)	RUB (0.0000)	-0.0271%	-5.5828%
374	BRL (0.0264)	CNY (0.9736)	KRW (0.0000)	ZAR (0.0000)	-0.0271%	-5.5828%
375	BRL (0.0264)	CNY (0.9736)	KRW (0.0000)	TRY (0.0000)	-0.0271%	-5.5828%
376	BRL (0.0166)	CNY (0.9228)	KRW (0.0000)	EUR (0.0606)	-0.0272%	-5.6042%
377	BRL (0.0264)	CNY (0.9736)	MXN (0.0000)	RUB (0.0000)	-0.0271%	-5.5828%
378	BRL (0.0264)	CNY (0.9736)	MXN (0.0000)	ZAR (0.0000)	-0.0271%	-5.5828%
379	BRL (0.0264)	CNY (0.9736)	MXN (0.0000)	TRY (0.0000)	-0.0271%	-5.5828%
380	BRL (0.0166)	CNY (0.9228)	MXN (0.0000)	EUR (0.0606)	-0.0272%	-5.6042%
381	BRL (0.0264)	CNY (0.9736)	RUB (0.0000)	ZAR (0.0000)	-0.0271%	-5.5828%
382	BRL (0.0264)	CNY (0.9736)	RUB (0.0000)	TRY (0.0000)	-0.0271%	-5.5828%
383	BRL (0.0166)	CNY (0.9228)	RUB (0.0000)	EUR (0.0606)	-0.0272%	-5.6042%
384	BRL (0.0264)	CNY (0.9736)	ZAR (0.0000)	TRY (0.0000)	-0.0271%	-5.5828%
385	BRL (0.0166)	CNY (0.9228)	ZAR (0.0000)	EUR (0.0606)	-0.0272%	-5.6042%
386	BRL (0.0166)	CNY (0.9228)	TRY (0.0000)	EUR (0.0606)	-0.0272%	-5.6042%
387	BRL (0.0000)	GBP (0.3139)	INR (0.3529)	IDR (0.3331)	-0.1134%	-23.3698%
388	BRL (0.0079)	GBP (0.2840)	INR (0.4404)	JPY (0.2677)	-0.1012%	-20.8384%
389	BRL (0.0000)	GBP (0.2578)	INR (0.4220)	KRW (0.3202)	-0.0594%	-12.2324%
390	BRL (0.0029)	GBP (0.3497)	INR (0.5036)	MXN (0.1438)	-0.1029%	-21.2053%
391	BRL (0.0286)	GBP (0.3842)	INR (0.5835)	RUB (0.0038)	-0.0976%	-20.1144%
392	BRL (0.0299)	GBP (0.3852)	INR (0.5849)	ZAR (0.0000)	-0.0969%	-19.9627%
393	BRL (0.0098)	GBP (0.3689)	INR (0.5428)	TRY (0.0785)	-0.1054%	-21.7202%
394	BRL (0.0000)	GBP (0.1941)	INR (0.5008)	EUR (0.3051)	-0.0810%	-16.6835%
395	BRL (0.0000)	GBP (0.3357)	IDR (0.4115)	JPY (0.2528)	-0.1261%	-25.9696%
396	BRL (0.0000)	GBP (0.2906)	IDR (0.3956)	KRW (0.3138)	-0.0853%	-17.5629%
397	BRL (0.0000)	GBP (0.3555)	IDR (0.4567)	MXN (0.1878)	-0.1344%	-27.6942%
398	BRL (0.0000)	GBP (0.4332)	IDR (0.5668)	RUB (0.0000)	-0.1292%	-26.6057%
399	BRL (0.0000)	GBP (0.4332)	IDR (0.5668)	ZAR (0.0000)	-0.1292%	-26.6057%
400	BRL (0.0000)	GBP (0.4011)	IDR (0.5058)	TRY (0.0932)	-0.1384%	-28.5172%
401	BRL (0.0000)	GBP (0.2637)	IDR (0.4697)	EUR (0.2665)	-0.1125%	-23.1773%
402	BRL (0.0270)	GBP (0.3130)	JPY (0.2753)	KRW (0.3846)	-0.0650%	-13.3820%
403	BRL (0.0015)	GBP (0.2942)	JPY (0.3574)	MXN (0.3470)	-0.1268%	-26.1237%
404	BRL (0.1009)	GBP (0.4576)	JPY (0.3986)	RUB (0.0429)	-0.1291%	-26.5996%
405	BRL (0.0957)	GBP (0.4518)	JPY (0.3955)	ZAR (0.0571)	-0.1258%	-25.9201%
406	BRL (0.0411)	GBP (0.3926)	JPY (0.3549)	TRY (0.2115)	-0.1393%	-28.7055%
407	BRL (0.0962)	GBP (0.3580)	JPY (0.3292)	EUR (0.2165)	-0.1077%	-22.1808%
408	BRL (0.0000)	GBP (0.3103)	KRW (0.4618)	MXN (0.2280)	-0.0610%	-12.5664%
409	BRL (0.0205)	GBP (0.3646)	KRW (0.5960)	RUB (0.0190)	-0.0395%	-8.1395%
410	BRL (0.0276)	GBP (0.3700)	KRW (0.6023)	ZAR (0.0000)	-0.0352%	-7.2468%
411	BRL (0.0000)	GBP (0.3332)	KRW (0.5109)	TRY (0.1559)	-0.0630%	-12.9745%
412	BRL (0.0009)	GBP (0.1949)	KRW (0.4909)	EUR (0.3133)	-0.0309%	-6.3580%
413	BRL (0.0655)	GBP (0.5072)	MXN (0.4273)	RUB (0.0000)	-0.1318%	-27.1490%
414	BRL (0.0655)	GBP (0.5072)	MXN (0.4273)	ZAR (0.0000)	-0.1318%	-27.1490%
415	BRL (0.0294)	GBP (0.4733)	MXN (0.3323)	TRY (0.1650)	-0.1440%	-29.6681%
416	BRL (0.0105)	GBP (0.2281)	MXN (0.3537)	EUR (0.4076)	-0.1033%	-21.2860%

417	BRL (0.1634)	GBP (0.7033)	RUB (0.0409)	ZAR (0.0924)	-0.1400%	-28.8434%
418	BRL (0.0777)	GBP (0.5817)	RUB (0.0145)	TRY (0.3261)	-0.1552%	-31.9648%
419	BRL (0.1061)	GBP (0.3570)	RUB (0.0421)	EUR (0.4949)	-0.1000%	-20.5935%
420	BRL (0.0820)	GBP (0.5855)	ZAR (0.0000)	TRY (0.3325)	-0.1531%	-31.5423%
421	BRL (0.0941)	GBP (0.3453)	ZAR (0.0708)	EUR (0.4898)	-0.0982%	-20.2223%
422	BRL (0.0340)	GBP (0.3007)	TRY (0.2482)	EUR (0.4172)	-0.1181%	-24.3314%
423	BRL (0.0000)	INR (0.4231)	IDR (0.3000)	JPY (0.2769)	-0.1170%	-24.1081%
424	BRL (0.0000)	INR (0.3530)	IDR (0.2856)	KRW (0.3614)	-0.0711%	-14.6508%
425	BRL (0.0000)	INR (0.4300)	IDR (0.3926)	MXN (0.1774)	-0.1268%	-26.1209%
426	BRL (0.0000)	INR (0.5470)	IDR (0.4530)	RUB (0.0000)	-0.1185%	-24.4048%
427	BRL (0.0000)	INR (0.5325)	IDR (0.4394)	ZAR (0.0281)	-0.1216%	-25.0475%
428	BRL (0.0000)	INR (0.5074)	IDR (0.4225)	TRY (0.0702)	-0.1266%	-26.0857%
429	BRL (0.0000)	INR (0.3720)	IDR (0.2797)	EUR (0.3483)	-0.0956%	-19.6892%
430	BRL (0.0000)	INR (0.4372)	JPY (0.2465)	KRW (0.3164)	-0.0650%	-13.3893%
431	BRL (0.0000)	INR (0.4005)	JPY (0.3398)	MXN (0.2597)	-0.1177%	-24.2555%
432	BRL (0.0318)	INR (0.5898)	JPY (0.3476)	RUB (0.0308)	-0.1119%	-23.0528%
433	BRL (0.0225)	INR (0.5820)	JPY (0.3428)	ZAR (0.0528)	-0.1105%	-22.7531%
434	BRL (0.0142)	INR (0.5403)	JPY (0.3352)	TRY (0.1103)	-0.1175%	-24.2113%
435	BRL (0.0000)	INR (0.4868)	JPY (0.2147)	EUR (0.2985)	-0.0860%	-17.7186%
436	BRL (0.0000)	INR (0.4529)	KRW (0.4419)	MXN (0.1053)	-0.0521%	-10.7368%
437	BRL (0.0000)	INR (0.5069)	KRW (0.4887)	RUB (0.0045)	-0.0412%	-8.4965%
438	BRL (0.0000)	INR (0.5090)	KRW (0.4910)	ZAR (0.0000)	-0.0399%	-8.2225%
439	BRL (0.0000)	INR (0.4862)	KRW (0.4715)	TRY (0.0423)	-0.0480%	-9.8830%
440	BRL (0.0000)	INR (0.4016)	KRW (0.2860)	EUR (0.3124)	-0.0501%	-10.3117%
441	BRL (0.0297)	INR (0.6843)	MXN (0.2861)	RUB (0.0000)	-0.1133%	-23.3479%
442	BRL (0.0297)	INR (0.6843)	MXN (0.2861)	ZAR (0.0000)	-0.1133%	-23.3479%
443	BRL (0.0121)	INR (0.6504)	MXN (0.2447)	TRY (0.0927)	-0.1216%	-25.0410%
444	BRL (0.0000)	INR (0.4488)	MXN (0.1492)	EUR (0.4020)	-0.0863%	-17.7786%
445	BRL (0.0488)	INR (0.8419)	RUB (0.0223)	ZAR (0.0870)	-0.1140%	-23.4925%
446	BRL (0.0366)	INR (0.7690)	RUB (0.0186)	TRY (0.1758)	-0.1245%	-25.6462%
447	BRL (0.0000)	INR (0.5492)	RUB (0.0109)	EUR (0.4399)	-0.0775%	-15.9578%
448	BRL (0.0285)	INR (0.7638)	ZAR (0.0461)	TRY (0.1616)	-0.1234%	-25.4111%
449	BRL (0.0000)	INR (0.5544)	ZAR (0.0033)	EUR (0.4423)	-0.0752%	-15.4874%
450	BRL (0.0000)	INR (0.5186)	TRY (0.0560)	EUR (0.4253)	-0.0833%	-17.1690%
451	BRL (0.0000)	IDR (0.3822)	JPY (0.2357)	KRW (0.3821)	-0.0821%	-16.9130%
452	BRL (0.0000)	IDR (0.3428)	JPY (0.3331)	MXN (0.3241)	-0.1436%	-29.5784%
453	BRL (0.0324)	IDR (0.5689)	JPY (0.3688)	RUB (0.0298)	-0.1483%	-30.5464%
454	BRL (0.0036)	IDR (0.5464)	JPY (0.3560)	ZAR (0.0941)	-0.1487%	-30.6314%
455	BRL (0.0000)	IDR (0.4800)	JPY (0.3393)	TRY (0.1807)	-0.1562%	-32.1794%
456	BRL (0.0000)	IDR (0.4482)	JPY (0.2107)	EUR (0.3411)	-0.1127%	-23.2179%
457	BRL (0.0000)	IDR (0.3980)	KRW (0.4272)	MXN (0.1748)	-0.0835%	-17.1990%
458	BRL (0.0000)	IDR (0.4655)	KRW (0.5345)	RUB (0.0000)	-0.0649%	-13.3611%
459	BRL (0.0000)	IDR (0.4655)	KRW (0.5345)	ZAR (0.0000)	-0.0649%	-13.3611%
460	BRL (0.0000)	IDR (0.4308)	KRW (0.4968)	TRY (0.0724)	-0.0769%	-15.8441%

461	BRL (0.0000)	IDR (0.3541)	KRW (0.3295)	EUR (0.3164)	-0.0678%	-13.9727%
462	BRL (0.0000)	IDR (0.6173)	MXN (0.3827)	RUB (0.0000)	-0.1550%	-31.9377%
463	BRL (0.0000)	IDR (0.6173)	MXN (0.3827)	ZAR (0.0000)	-0.1550%	-31.9377%
464	BRL (0.0000)	IDR (0.5849)	MXN (0.3361)	TRY (0.0790)	-0.1612%	-33.1989%
465	BRL (0.0000)	IDR (0.3882)	MXN (0.2222)	EUR (0.3896)	-0.1162%	-23.9418%
466	BRL (0.0134)	IDR (0.8380)	RUB (0.0061)	ZAR (0.1424)	-0.1662%	-34.2321%
467	BRL (0.0000)	IDR (0.7331)	RUB (0.0013)	TRY (0.2656)	-0.1746%	-35.9769%
468	BRL (0.0000)	IDR (0.5213)	RUB (0.0038)	EUR (0.4749)	-0.1074%	-22.1295%
469	BRL (0.0000)	IDR (0.7151)	ZAR (0.0530)	TRY (0.2319)	-0.1758%	-36.2236%
470	BRL (0.0000)	IDR (0.5119)	ZAR (0.0213)	EUR (0.4669)	-0.1092%	-22.4900%
471	BRL (0.0000)	IDR (0.4591)	TRY (0.1034)	EUR (0.4375)	-0.1187%	-24.4535%
472	BRL (0.0000)	JPY (0.3341)	KRW (0.3300)	MXN (0.3359)	-0.0892%	-18.3746%
473	BRL (0.0272)	JPY (0.3252)	KRW (0.6017)	RUB (0.0459)	-0.0531%	-10.9409%
474	BRL (0.0357)	JPY (0.3256)	KRW (0.6097)	ZAR (0.0290)	-0.0462%	-9.5273%
475	BRL (0.0000)	JPY (0.3039)	KRW (0.5038)	TRY (0.1923)	-0.0753%	-15.5032%
476	BRL (0.0085)	JPY (0.2045)	KRW (0.4633)	EUR (0.3237)	-0.0388%	-7.9907%
477	BRL (0.0210)	JPY (0.4642)	MXN (0.5148)	RUB (0.0000)	-0.1416%	-29.1777%
478	BRL (0.0210)	JPY (0.4642)	MXN (0.5148)	ZAR (0.0000)	-0.1416%	-29.1777%
479	BRL (0.0016)	JPY (0.4455)	MXN (0.4557)	TRY (0.0973)	-0.1485%	-30.5883%
480	BRL (0.0000)	JPY (0.3121)	MXN (0.3889)	EUR (0.2990)	-0.1155%	-23.7944%
481	BRL (0.1281)	JPY (0.5950)	RUB (0.0727)	ZAR (0.2042)	-0.1710%	-35.2268%
482	BRL (0.0750)	JPY (0.5099)	RUB (0.0520)	TRY (0.3632)	-0.1798%	-37.0312%
483	BRL (0.0980)	JPY (0.3374)	RUB (0.0639)	EUR (0.5007)	-0.1112%	-22.9065%
484	BRL (0.0645)	JPY (0.5038)	ZAR (0.0885)	TRY (0.3433)	-0.1751%	-36.0718%
485	BRL (0.0723)	JPY (0.3298)	ZAR (0.1211)	EUR (0.4768)	-0.1099%	-22.6345%
486	BRL (0.0320)	JPY (0.2990)	TRY (0.2557)	EUR (0.4134)	-0.1255%	-25.8526%
487	BRL (0.0000)	KRW (0.6765)	MXN (0.3235)	RUB (0.0000)	-0.0432%	-8.8936%
488	BRL (0.0000)	KRW (0.6765)	MXN (0.3235)	ZAR (0.0000)	-0.0432%	-8.8936%
489	BRL (0.0000)	KRW (0.6311)	MXN (0.2584)	TRY (0.1104)	-0.0592%	-12.1982%
490	BRL (0.0000)	KRW (0.3918)	MXN (0.2288)	EUR (0.3794)	-0.0526%	-10.8453%
491	BRL (0.0326)	KRW (0.9229)	RUB (0.0445)	ZAR (0.0000)	-0.0111%	-2.2932%
492	BRL (0.0000)	KRW (0.7606)	RUB (0.0171)	TRY (0.2223)	-0.0486%	-10.0149%
493	BRL (0.0000)	KRW (0.5466)	RUB (0.0244)	EUR (0.4290)	-0.0255%	-5.2585%
494	BRL (0.0000)	KRW (0.7679)	ZAR (0.0000)	TRY (0.2321)	-0.0451%	-9.2893%
495	BRL (0.0000)	KRW (0.5640)	ZAR (0.0000)	EUR (0.4360)	-0.0175%	-3.6091%
496	BRL (0.0000)	KRW (0.4736)	TRY (0.1320)	EUR (0.3945)	-0.0471%	-9.7070%
497	BRL (0.1505)	MXN (0.8492)	RUB (0.0000)	ZAR (0.0002)	-0.1677%	-34.5468%
498	BRL (0.0708)	MXN (0.6141)	RUB (0.0000)	TRY (0.3151)	-0.1865%	-38.4108%
499	BRL (0.0079)	MXN (0.4209)	RUB (0.0000)	EUR (0.5713)	-0.1001%	-20.6259%
500	BRL (0.0708)	MXN (0.6141)	ZAR (0.0000)	TRY (0.3151)	-0.1865%	-38.4108%
501	BRL (0.0079)	MXN (0.4209)	ZAR (0.0000)	EUR (0.5713)	-0.1001%	-20.6259%
502	BRL (0.0000)	MXN (0.3495)	TRY (0.1118)	EUR (0.5387)	-0.1114%	-22.9476%
503	BRL (0.1394)	RUB (0.0529)	ZAR (0.1666)	TRY (0.6411)	-0.2368%	-48.7809%
504	BRL (0.0793)	RUB (0.0476)	ZAR (0.1213)	EUR (0.7518)	-0.1033%	-21.2772%

505	BRL (0.0302)	RUB (0.0288)	TRY (0.2943)	EUR (0.6467)	-0.1210%	-24.9303%
506	BRL (0.0302)	ZAR (0.0305)	TRY (0.2935)	EUR (0.6458)	-0.1182%	-24.3437%
507	CAD (0.0202)	CNY (0.9098)	GBP (0.0193)	INR (0.0507)	-0.0290%	-5.9661%
508	CAD (0.0188)	CNY (0.9202)	GBP (0.0238)	IDR (0.0373)	-0.0306%	-6.3009%
509	CAD (0.0182)	CNY (0.8986)	GBP (0.0220)	JPY (0.0612)	-0.0315%	-6.4848%
510	CAD (0.0311)	CNY (0.9487)	GBP (0.0202)	KRW (0.0000)	-0.0268%	-5.5130%
511	CAD (0.0311)	CNY (0.9487)	GBP (0.0202)	MXN (0.0000)	-0.0268%	-5.5130%
512	CAD (0.0311)	CNY (0.9487)	GBP (0.0202)	RUB (0.0000)	-0.0268%	-5.5130%
513	CAD (0.0311)	CNY (0.9487)	GBP (0.0202)	ZAR (0.0000)	-0.0268%	-5.5130%
514	CAD (0.0311)	CNY (0.9487)	GBP (0.0202)	TRY (0.0000)	-0.0268%	-5.5130%
515	CAD (0.0077)	CNY (0.9261)	GBP (0.0000)	EUR (0.0661)	-0.0249%	-5.1342%
516	CAD (0.0260)	CNY (0.9087)	INR (0.0441)	IDR (0.0212)	-0.0305%	-6.2735%
517	CAD (0.0188)	CNY (0.8709)	INR (0.0500)	JPY (0.0603)	-0.0332%	-6.8367%
518	CAD (0.0304)	CNY (0.9185)	INR (0.0511)	KRW (0.0000)	-0.0286%	-5.8954%
519	CAD (0.0304)	CNY (0.9185)	INR (0.0511)	MXN (0.0000)	-0.0286%	-5.8954%
520	CAD (0.0304)	CNY (0.9185)	INR (0.0511)	RUB (0.0000)	-0.0286%	-5.8954%
521	CAD (0.0304)	CNY (0.9185)	INR (0.0511)	ZAR (0.0000)	-0.0286%	-5.8954%
522	CAD (0.0304)	CNY (0.9185)	INR (0.0511)	TRY (0.0000)	-0.0286%	-5.8954%
523	CAD (0.0000)	CNY (0.8885)	INR (0.0480)	EUR (0.0635)	-0.0273%	-5.6167%
524	CAD (0.0227)	CNY (0.8913)	IDR (0.0271)	JPY (0.0589)	-0.0336%	-6.9266%
525	CAD (0.0321)	CNY (0.9332)	IDR (0.0346)	KRW (0.0000)	-0.0299%	-6.1540%
526	CAD (0.0321)	CNY (0.9332)	IDR (0.0346)	MXN (0.0000)	-0.0299%	-6.1540%
527	CAD (0.0321)	CNY (0.9332)	IDR (0.0346)	RUB (0.0000)	-0.0299%	-6.1540%
528	CAD (0.0321)	CNY (0.9332)	IDR (0.0346)	ZAR (0.0000)	-0.0299%	-6.1540%
529	CAD (0.0321)	CNY (0.9332)	IDR (0.0346)	TRY (0.0000)	-0.0299%	-6.1540%
530	CAD (0.0001)	CNY (0.9050)	IDR (0.0307)	EUR (0.0642)	-0.0281%	-5.7798%
531	CAD (0.0300)	CNY (0.9093)	JPY (0.0608)	KRW (0.0000)	-0.0310%	-6.3935%
532	CAD (0.0300)	CNY (0.9093)	JPY (0.0608)	MXN (0.0000)	-0.0310%	-6.3935%
533	CAD (0.0300)	CNY (0.9093)	JPY (0.0608)	RUB (0.0000)	-0.0310%	-6.3935%
534	CAD (0.0300)	CNY (0.9093)	JPY (0.0608)	ZAR (0.0000)	-0.0310%	-6.3935%
535	CAD (0.0300)	CNY (0.9093)	JPY (0.0608)	TRY (0.0000)	-0.0310%	-6.3935%
536	CAD (0.0093)	CNY (0.8965)	JPY (0.0502)	EUR (0.0440)	-0.0293%	-6.0269%
537	CAD (0.0418)	CNY (0.9581)	KRW (0.0001)	MXN (0.0000)	-0.0264%	-5.4331%
538	CAD (0.0418)	CNY (0.9581)	KRW (0.0001)	RUB (0.0000)	-0.0264%	-5.4331%
539	CAD (0.0418)	CNY (0.9581)	KRW (0.0001)	ZAR (0.0000)	-0.0264%	-5.4331%
540	CAD (0.0418)	CNY (0.9581)	KRW (0.0001)	TRY (0.0000)	-0.0264%	-5.4331%
541	CAD (0.0077)	CNY (0.9261)	KRW (0.0000)	EUR (0.0661)	-0.0249%	-5.1342%
542	CAD (0.0418)	CNY (0.9582)	MXN (0.0000)	RUB (0.0000)	-0.0264%	-5.4349%
543	CAD (0.0418)	CNY (0.9582)	MXN (0.0000)	ZAR (0.0000)	-0.0264%	-5.4349%
544	CAD (0.0418)	CNY (0.9582)	MXN (0.0000)	TRY (0.0000)	-0.0264%	-5.4349%
545	CAD (0.0077)	CNY (0.9261)	MXN (0.0000)	EUR (0.0661)	-0.0249%	-5.1342%
546	CAD (0.0418)	CNY (0.9582)	RUB (0.0000)	ZAR (0.0000)	-0.0264%	-5.4349%
547	CAD (0.0418)	CNY (0.9582)	RUB (0.0000)	TRY (0.0000)	-0.0264%	-5.4349%
548	CAD (0.0077)	CNY (0.9261)	RUB (0.0000)	EUR (0.0661)	-0.0249%	-5.1342%

549	CAD (0.0418)	CNY (0.9582)	ZAR (0.0000)	TRY (0.0000)	-0.0264%	-5.4349%
550	CAD (0.0077)	CNY (0.9261)	ZAR (0.0000)	EUR (0.0661)	-0.0249%	-5.1342%
551	CAD (0.0077)	CNY (0.9261)	TRY (0.0000)	EUR (0.0661)	-0.0249%	-5.1342%
552	CAD (0.2358)	GBP (0.2068)	INR (0.3011)	IDR (0.2563)	-0.1172%	-24.1409%
553	CAD (0.2379)	GBP (0.1766)	INR (0.3601)	JPY (0.2253)	-0.1075%	-22.1536%
554	CAD (0.2458)	GBP (0.1741)	INR (0.3708)	KRW (0.2094)	-0.0798%	-16.4476%
555	CAD (0.3502)	GBP (0.2074)	INR (0.4424)	MXN (0.0000)	-0.1056%	-21.7560%
556	CAD (0.3502)	GBP (0.2074)	INR (0.4424)	RUB (0.0000)	-0.1056%	-21.7560%
557	CAD (0.3502)	GBP (0.2074)	INR (0.4424)	ZAR (0.0000)	-0.1056%	-21.7560%
558	CAD (0.3502)	GBP (0.2074)	INR (0.4424)	TRY (0.0000)	-0.1056%	-21.7560%
559	CAD (0.2630)	GBP (0.1142)	INR (0.4094)	EUR (0.2134)	-0.0940%	-19.3714%
560	CAD (0.2332)	GBP (0.2255)	IDR (0.3224)	JPY (0.2188)	-0.1279%	-26.3471%
561	CAD (0.2137)	GBP (0.2168)	IDR (0.3418)	KRW (0.2277)	-0.0986%	-20.3130%
562	CAD (0.2642)	GBP (0.2590)	IDR (0.3932)	MXN (0.0835)	-0.1331%	-27.4207%
563	CAD (0.3224)	GBP (0.2629)	IDR (0.4148)	RUB (0.0000)	-0.1311%	-27.0096%
564	CAD (0.3224)	GBP (0.2629)	IDR (0.4148)	ZAR (0.0000)	-0.1311%	-27.0096%
565	CAD (0.3128)	GBP (0.2611)	IDR (0.4062)	TRY (0.0199)	-0.1330%	-27.4060%
566	CAD (0.2546)	GBP (0.1770)	IDR (0.3770)	EUR (0.1913)	-0.1188%	-24.4639%
567	CAD (0.2987)	GBP (0.2041)	JPY (0.2427)	KRW (0.2545)	-0.0848%	-17.4719%
568	CAD (0.2020)	GBP (0.2293)	JPY (0.3163)	MXN (0.2524)	-0.1265%	-26.0605%
569	CAD (0.4442)	GBP (0.2538)	JPY (0.3020)	RUB (0.0000)	-0.1187%	-24.4552%
570	CAD (0.4442)	GBP (0.2538)	JPY (0.3020)	ZAR (0.0000)	-0.1187%	-24.4552%
571	CAD (0.3526)	GBP (0.2384)	JPY (0.2882)	TRY (0.1207)	-0.1319%	-27.1632%
572	CAD (0.4078)	GBP (0.2054)	JPY (0.2699)	EUR (0.1169)	-0.1119%	-23.0508%
573	CAD (0.2923)	GBP (0.2234)	KRW (0.3628)	MXN (0.1214)	-0.0748%	-15.4098%
574	CAD (0.3749)	GBP (0.2241)	KRW (0.4010)	RUB (0.0000)	-0.0659%	-13.5809%
575	CAD (0.3749)	GBP (0.2241)	KRW (0.4010)	ZAR (0.0000)	-0.0659%	-13.5809%
576	CAD (0.3311)	GBP (0.2201)	KRW (0.3654)	TRY (0.0833)	-0.0797%	-16.4247%
577	CAD (0.2901)	GBP (0.1247)	KRW (0.3511)	EUR (0.2341)	-0.0588%	-12.1054%
578	CAD (0.4794)	GBP (0.3061)	MXN (0.2145)	RUB (0.0000)	-0.1263%	-26.0129%
579	CAD (0.4794)	GBP (0.3061)	MXN (0.2145)	ZAR (0.0000)	-0.1263%	-26.0129%
580	CAD (0.4421)	GBP (0.2943)	MXN (0.1529)	TRY (0.1107)	-0.1364%	-28.0947%
581	CAD (0.3151)	GBP (0.1575)	MXN (0.2167)	EUR (0.3107)	-0.1080%	-22.2430%
582	CAD (0.6758)	GBP (0.3242)	RUB (0.0000)	ZAR (0.0000)	-0.1196%	-24.6415%
583	CAD (0.5355)	GBP (0.2986)	RUB (0.0000)	TRY (0.1659)	-0.1376%	-28.3519%
584	CAD (0.5146)	GBP (0.1766)	RUB (0.0000)	EUR (0.3088)	-0.1014%	-20.8805%
585	CAD (0.5355)	GBP (0.2986)	ZAR (0.0000)	TRY (0.1659)	-0.1376%	-28.3519%
586	CAD (0.5146)	GBP (0.1766)	ZAR (0.0000)	EUR (0.3088)	-0.1014%	-20.8805%
587	CAD (0.4121)	GBP (0.1680)	TRY (0.1373)	EUR (0.2826)	-0.1178%	-24.2698%
588	CAD (0.2967)	INR (0.3042)	IDR (0.1885)	JPY (0.2106)	-0.1199%	-24.7050%
589	CAD (0.2881)	INR (0.2969)	IDR (0.2177)	KRW (0.1973)	-0.0951%	-19.5918%
590	CAD (0.3929)	INR (0.3503)	IDR (0.2568)	MXN (0.0000)	-0.1219%	-25.1012%
591	CAD (0.3929)	INR (0.3503)	IDR (0.2568)	RUB (0.0000)	-0.1219%	-25.1012%
592	CAD (0.3929)	INR (0.3503)	IDR (0.2568)	ZAR (0.0000)	-0.1219%	-25.1012%

593	CAD (0.3929)	INR (0.3503)	IDR (0.2568)	TRY (0.0000)	-0.1219%	-25.1012%
594	CAD (0.2352)	INR (0.3105)	IDR (0.2179)	EUR (0.2364)	-0.1050%	-21.6218%
595	CAD (0.2910)	INR (0.3529)	JPY (0.2126)	KRW (0.1435)	-0.0933%	-19.2101%
596	CAD (0.3105)	INR (0.3605)	JPY (0.2512)	MXN (0.0777)	-0.1151%	-23.7135%
597	CAD (0.3640)	INR (0.3970)	JPY (0.2390)	RUB (0.0000)	-0.1116%	-22.9847%
598	CAD (0.3640)	INR (0.3970)	JPY (0.2390)	ZAR (0.0000)	-0.1116%	-22.9847%
599	CAD (0.3640)	INR (0.3970)	JPY (0.2390)	TRY (0.0000)	-0.1116%	-22.9847%
600	CAD (0.2749)	INR (0.3745)	JPY (0.1927)	EUR (0.1579)	-0.1012%	-20.8487%
601	CAD (0.3507)	INR (0.3956)	KRW (0.2537)	MXN (0.0000)	-0.0781%	-16.0945%
602	CAD (0.3507)	INR (0.3956)	KRW (0.2537)	RUB (0.0000)	-0.0781%	-16.0945%
603	CAD (0.3507)	INR (0.3956)	KRW (0.2537)	ZAR (0.0000)	-0.0781%	-16.0945%
604	CAD (0.3507)	INR (0.3956)	KRW (0.2537)	TRY (0.0000)	-0.0781%	-16.0945%
605	CAD (0.2163)	INR (0.3588)	KRW (0.1915)	EUR (0.2335)	-0.0711%	-14.6387%
606	CAD (0.5079)	INR (0.4921)	MXN (0.0000)	RUB (0.0000)	-0.1103%	-22.7136%
607	CAD (0.5079)	INR (0.4921)	MXN (0.0000)	ZAR (0.0000)	-0.1103%	-22.7136%
608	CAD (0.5079)	INR (0.4921)	MXN (0.0000)	TRY (0.0000)	-0.1103%	-22.7136%
609	CAD (0.2999)	INR (0.4168)	MXN (0.0129)	EUR (0.2704)	-0.0935%	-19.2649%
610	CAD (0.5079)	INR (0.4921)	RUB (0.0000)	ZAR (0.0000)	-0.1103%	-22.7136%
611	CAD (0.5079)	INR (0.4921)	RUB (0.0000)	TRY (0.0000)	-0.1103%	-22.7136%
612	CAD (0.3085)	INR (0.4223)	RUB (0.0000)	EUR (0.2692)	-0.0930%	-19.1630%
613	CAD (0.5079)	INR (0.4921)	ZAR (0.0000)	TRY (0.0000)	-0.1103%	-22.7136%
614	CAD (0.3085)	INR (0.4223)	ZAR (0.0000)	EUR (0.2692)	-0.0930%	-19.1630%
615	CAD (0.3085)	INR (0.4223)	TRY (0.0000)	EUR (0.2692)	-0.0930%	-19.1630%
616	CAD (0.3073)	IDR (0.2900)	JPY (0.2055)	KRW (0.1972)	-0.1065%	-21.9452%
617	CAD (0.2769)	IDR (0.2869)	JPY (0.2648)	MXN (0.1714)	-0.1387%	-28.5689%
618	CAD (0.4155)	IDR (0.3421)	JPY (0.2424)	RUB (0.0000)	-0.1353%	-27.8780%
619	CAD (0.4155)	IDR (0.3421)	JPY (0.2424)	ZAR (0.0000)	-0.1353%	-27.8780%
620	CAD (0.3955)	IDR (0.3264)	JPY (0.2419)	TRY (0.0362)	-0.1387%	-28.5779%
621	CAD (0.3128)	IDR (0.3197)	JPY (0.1903)	EUR (0.1772)	-0.1222%	-25.1667%
622	CAD (0.3269)	IDR (0.3374)	KRW (0.2873)	MXN (0.0484)	-0.0984%	-20.2630%
623	CAD (0.3556)	IDR (0.3465)	KRW (0.2979)	RUB (0.0000)	-0.0957%	-19.7126%
624	CAD (0.3556)	IDR (0.3465)	KRW (0.2979)	ZAR (0.0000)	-0.0957%	-19.7126%
625	CAD (0.3556)	IDR (0.3465)	KRW (0.2979)	TRY (0.0000)	-0.0957%	-19.7126%
626	CAD (0.2211)	IDR (0.3077)	KRW (0.2333)	EUR (0.2379)	-0.0863%	-17.7696%
627	CAD (0.4773)	IDR (0.4239)	MXN (0.0987)	RUB (0.0000)	-0.1425%	-29.3638%
628	CAD (0.4773)	IDR (0.4239)	MXN (0.0987)	ZAR (0.0000)	-0.1425%	-29.3638%
629	CAD (0.4748)	IDR (0.4203)	MXN (0.0936)	TRY (0.0112)	-0.1435%	-29.5555%
630	CAD (0.2509)	IDR (0.3453)	MXN (0.1141)	EUR (0.2896)	-0.1196%	-24.6410%
631	CAD (0.5500)	IDR (0.4500)	RUB (0.0000)	ZAR (0.0000)	-0.1403%	-28.9106%
632	CAD (0.5271)	IDR (0.4319)	RUB (0.0000)	TRY (0.0410)	-0.1442%	-29.7006%
633	CAD (0.3390)	IDR (0.3769)	RUB (0.0000)	EUR (0.2841)	-0.1175%	-24.2088%
634	CAD (0.5271)	IDR (0.4319)	ZAR (0.0000)	TRY (0.0410)	-0.1442%	-29.7006%
635	CAD (0.3390)	IDR (0.3769)	ZAR (0.0000)	EUR (0.2841)	-0.1175%	-24.2088%
636	CAD (0.3289)	IDR (0.3683)	TRY (0.0207)	EUR (0.2821)	-0.1196%	-24.6398%

637	CAD (0.2772)	JPY (0.2840)	KRW (0.2312)	MXN (0.2076)	-0.1001%	-20.6242%
638	CAD (0.4307)	JPY (0.2528)	KRW (0.3165)	RUB (0.0000)	-0.0824%	-16.9845%
639	CAD (0.4307)	JPY (0.2528)	KRW (0.3165)	ZAR (0.0000)	-0.0824%	-16.9845%
640	CAD (0.3839)	JPY (0.2511)	KRW (0.2799)	TRY (0.0851)	-0.0965%	-19.8743%
641	CAD (0.3289)	JPY (0.1997)	KRW (0.2831)	EUR (0.1884)	-0.0737%	-15.1870%
642	CAD (0.3751)	JPY (0.3468)	MXN (0.2782)	RUB (0.0000)	-0.1343%	-27.6577%
643	CAD (0.3751)	JPY (0.3468)	MXN (0.2782)	ZAR (0.0000)	-0.1343%	-27.6577%
644	CAD (0.3624)	JPY (0.3392)	MXN (0.2501)	TRY (0.0483)	-0.1385%	-28.5405%
645	CAD (0.2499)	JPY (0.2773)	MXN (0.2630)	EUR (0.2098)	-0.1189%	-24.5024%
646	CAD (0.6656)	JPY (0.3344)	RUB (0.0000)	ZAR (0.0000)	-0.1265%	-26.0598%
647	CAD (0.5406)	JPY (0.3157)	RUB (0.0000)	TRY (0.1437)	-0.1416%	-29.1678%
648	CAD (0.5096)	JPY (0.2584)	RUB (0.0000)	EUR (0.2321)	-0.1100%	-22.6657%
649	CAD (0.5406)	JPY (0.3157)	ZAR (0.0000)	TRY (0.1437)	-0.1416%	-29.1678%
650	CAD (0.5096)	JPY (0.2584)	ZAR (0.0000)	EUR (0.2321)	-0.1100%	-22.6657%
651	CAD (0.4172)	JPY (0.2494)	TRY (0.1230)	EUR (0.2104)	-0.1245%	-25.6425%
652	CAD (0.4399)	KRW (0.4372)	MXN (0.1229)	RUB (0.0000)	-0.0715%	-14.7190%
653	CAD (0.4399)	KRW (0.4372)	MXN (0.1229)	ZAR (0.0000)	-0.0715%	-14.7190%
654	CAD (0.4260)	KRW (0.4194)	MXN (0.0929)	TRY (0.0618)	-0.0795%	-16.3829%
655	CAD (0.2319)	KRW (0.3237)	MXN (0.1424)	EUR (0.3020)	-0.0656%	-13.5179%
656	CAD (0.5240)	KRW (0.4760)	RUB (0.0000)	ZAR (0.0000)	-0.0625%	-12.8653%
657	CAD (0.4729)	KRW (0.4355)	RUB (0.0000)	TRY (0.0915)	-0.0777%	-16.0033%
658	CAD (0.3348)	KRW (0.3718)	RUB (0.0000)	EUR (0.2934)	-0.0554%	-11.4137%
659	CAD (0.4729)	KRW (0.4355)	ZAR (0.0000)	TRY (0.0915)	-0.0777%	-16.0033%
660	CAD (0.3348)	KRW (0.3718)	ZAR (0.0000)	EUR (0.2934)	-0.0554%	-11.4137%
661	CAD (0.3005)	KRW (0.3434)	TRY (0.0702)	EUR (0.2859)	-0.0673%	-13.8578%
662	CAD (0.7550)	MXN (0.2450)	RUB (0.0000)	ZAR (0.0000)	-0.1369%	-28.2106%
663	CAD (0.6941)	MXN (0.1652)	RUB (0.0000)	TRY (0.1407)	-0.1493%	-30.7491%
664	CAD (0.3782)	MXN (0.2291)	RUB (0.0000)	EUR (0.3927)	-0.1073%	-22.0965%
665	CAD (0.6941)	MXN (0.1652)	ZAR (0.0000)	TRY (0.1407)	-0.1493%	-30.7491%
666	CAD (0.3782)	MXN (0.2291)	ZAR (0.0000)	EUR (0.3927)	-0.1073%	-22.0965%
667	CAD (0.3606)	MXN (0.1879)	TRY (0.0737)	EUR (0.3778)	-0.1148%	-23.6586%
668	CAD (0.7991)	RUB (0.0000)	ZAR (0.0000)	TRY (0.2009)	-0.1508%	-31.0698%
669	CAD (0.5987)	RUB (0.0000)	ZAR (0.0000)	EUR (0.4013)	-0.1001%	-20.6273%
670	CAD (0.4873)	RUB (0.0000)	TRY (0.1435)	EUR (0.3692)	-0.1174%	-24.1835%
671	CAD (0.4873)	ZAR (0.0000)	TRY (0.1435)	EUR (0.3692)	-0.1174%	-24.1835%
672	CNY (0.9027)	GBP (0.0264)	INR (0.0440)	IDR (0.0269)	-0.0304%	-6.2592%
673	CNY (0.8643)	GBP (0.0236)	INR (0.0508)	JPY (0.0613)	-0.0331%	-6.8180%
674	CNY (0.9200)	GBP (0.0260)	INR (0.0541)	KRW (0.0000)	-0.0275%	-5.6677%
675	CNY (0.9200)	GBP (0.0260)	INR (0.0541)	MXN (0.0000)	-0.0275%	-5.6677%
676	CNY (0.9200)	GBP (0.0260)	INR (0.0541)	RUB (0.0000)	-0.0275%	-5.6677%
677	CNY (0.9200)	GBP (0.0260)	INR (0.0541)	ZAR (0.0000)	-0.0275%	-5.6677%
678	CNY (0.9200)	GBP (0.0260)	INR (0.0541)	TRY (0.0000)	-0.0275%	-5.6677%
679	CNY (0.8885)	GBP (0.0000)	INR (0.0480)	EUR (0.0635)	-0.0273%	-5.6167%
680	CNY (0.8807)	GBP (0.0278)	IDR (0.0317)	JPY (0.0597)	-0.0340%	-6.9977%



681	CNY (0.9282)	GBP (0.0303)	IDR (0.0416)	KRW (0.0000)	-0.0296%	-6.1004%
682	CNY (0.9282)	GBP (0.0303)	IDR (0.0416)	MXN (0.0000)	-0.0296%	-6.1004%
683	CNY (0.9282)	GBP (0.0303)	IDR (0.0416)	RUB (0.0000)	-0.0296%	-6.1004%
684	CNY (0.9282)	GBP (0.0303)	IDR (0.0416)	ZAR (0.0000)	-0.0296%	-6.1004%
685	CNY (0.9282)	GBP (0.0303)	IDR (0.0416)	TRY (0.0000)	-0.0296%	-6.1004%
686	CNY (0.9050)	GBP (0.0000)	IDR (0.0307)	EUR (0.0643)	-0.0281%	-5.7784%
687	CNY (0.9091)	GBP (0.0282)	JPY (0.0627)	KRW (0.0000)	-0.0301%	-6.2074%
688	CNY (0.9029)	GBP (0.0269)	JPY (0.0636)	MXN (0.0066)	-0.0310%	-6.3900%
689	CNY (0.9091)	GBP (0.0282)	JPY (0.0627)	RUB (0.0000)	-0.0301%	-6.2074%
690	CNY (0.9091)	GBP (0.0282)	JPY (0.0627)	ZAR (0.0000)	-0.0301%	-6.2074%
691	CNY (0.9091)	GBP (0.0282)	JPY (0.0627)	TRY (0.0000)	-0.0301%	-6.2074%
692	CNY (0.8982)	GBP (0.0078)	JPY (0.0512)	EUR (0.0428)	-0.0289%	-5.9524%
693	CNY (0.9621)	GBP (0.0289)	KRW (0.0089)	MXN (0.0000)	-0.0238%	-4.8943%
694	CNY (0.9621)	GBP (0.0289)	KRW (0.0089)	RUB (0.0000)	-0.0238%	-4.8943%
695	CNY (0.9621)	GBP (0.0289)	KRW (0.0089)	ZAR (0.0000)	-0.0238%	-4.8943%
696	CNY (0.9621)	GBP (0.0289)	KRW (0.0089)	TRY (0.0000)	-0.0238%	-4.8943%
697	CNY (0.9310)	GBP (0.0000)	KRW (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
698	CNY (0.9690)	GBP (0.0310)	MXN (0.0000)	RUB (0.0000)	-0.0242%	-4.9888%
699	CNY (0.9690)	GBP (0.0310)	MXN (0.0000)	ZAR (0.0000)	-0.0242%	-4.9888%
700	CNY (0.9690)	GBP (0.0310)	MXN (0.0000)	TRY (0.0000)	-0.0242%	-4.9888%
701	CNY (0.9310)	GBP (0.0000)	MXN (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
702	CNY (0.9690)	GBP (0.0310)	RUB (0.0000)	ZAR (0.0000)	-0.0242%	-4.9888%
703	CNY (0.9690)	GBP (0.0310)	RUB (0.0000)	TRY (0.0000)	-0.0242%	-4.9888%
704	CNY (0.9310)	GBP (0.0000)	RUB (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
705	CNY (0.9690)	GBP (0.0310)	ZAR (0.0000)	TRY (0.0000)	-0.0242%	-4.9888%
706	CNY (0.9310)	GBP (0.0000)	ZAR (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
707	CNY (0.9310)	GBP (0.0000)	TRY (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
708	CNY (0.8753)	INR (0.0480)	IDR (0.0161)	JPY (0.0606)	-0.0332%	-6.8295%
709	CNY (0.9260)	INR (0.0478)	IDR (0.0262)	KRW (0.0000)	-0.0285%	-5.8797%
710	CNY (0.9260)	INR (0.0478)	IDR (0.0262)	MXN (0.0000)	-0.0285%	-5.8797%
711	CNY (0.9260)	INR (0.0478)	IDR (0.0262)	RUB (0.0000)	-0.0285%	-5.8797%
712	CNY (0.9260)	INR (0.0478)	IDR (0.0262)	ZAR (0.0000)	-0.0285%	-5.8797%
713	CNY (0.9260)	INR (0.0478)	IDR (0.0262)	TRY (0.0000)	-0.0285%	-5.8797%
714	CNY (0.8794)	INR (0.0420)	IDR (0.0171)	EUR (0.0615)	-0.0290%	-5.9791%
715	CNY (0.8841)	INR (0.0539)	JPY (0.0620)	KRW (0.0000)	-0.0316%	-6.5051%
716	CNY (0.8841)	INR (0.0539)	JPY (0.0620)	MXN (0.0000)	-0.0316%	-6.5051%
717	CNY (0.8841)	INR (0.0539)	JPY (0.0620)	RUB (0.0000)	-0.0316%	-6.5051%
718	CNY (0.8841)	INR (0.0539)	JPY (0.0620)	ZAR (0.0000)	-0.0316%	-6.5051%
719	CNY (0.8841)	INR (0.0539)	JPY (0.0620)	TRY (0.0000)	-0.0316%	-6.5051%
720	CNY (0.8596)	INR (0.0483)	JPY (0.0502)	EUR (0.0419)	-0.0315%	-6.4815%
721	CNY (0.9408)	INR (0.0569)	KRW (0.0024)	MXN (0.0000)	-0.0256%	-5.2831%
722	CNY (0.9408)	INR (0.0569)	KRW (0.0024)	RUB (0.0000)	-0.0256%	-5.2831%
723	CNY (0.9408)	INR (0.0569)	KRW (0.0024)	ZAR (0.0000)	-0.0256%	-5.2831%
724	CNY (0.9408)	INR (0.0569)	KRW (0.0024)	TRY (0.0000)	-0.0256%	-5.2831%

725	CNY (0.8885)	INR (0.0480)	KRW (0.0000)	EUR (0.0635)	-0.0273%	-5.6167%
726	CNY (0.9425)	INR (0.0575)	MXN (0.0000)	RUB (0.0000)	-0.0258%	-5.3088%
727	CNY (0.9425)	INR (0.0575)	MXN (0.0000)	ZAR (0.0000)	-0.0258%	-5.3088%
728	CNY (0.9425)	INR (0.0575)	MXN (0.0000)	TRY (0.0000)	-0.0258%	-5.3088%
729	CNY (0.8885)	INR (0.0480)	MXN (0.0000)	EUR (0.0635)	-0.0273%	-5.6167%
730	CNY (0.9425)	INR (0.0575)	RUB (0.0000)	ZAR (0.0000)	-0.0258%	-5.3088%
731	CNY (0.9425)	INR (0.0575)	RUB (0.0000)	TRY (0.0000)	-0.0258%	-5.3088%
732	CNY (0.8885)	INR (0.0480)	RUB (0.0000)	EUR (0.0635)	-0.0273%	-5.6167%
733	CNY (0.9425)	INR (0.0575)	ZAR (0.0000)	TRY (0.0000)	-0.0258%	-5.3088%
734	CNY (0.8885)	INR (0.0480)	ZAR (0.0000)	EUR (0.0635)	-0.0273%	-5.6167%
735	CNY (0.8885)	INR (0.0480)	TRY (0.0000)	EUR (0.0635)	-0.0273%	-5.6167%
736	CNY (0.9072)	IDR (0.0322)	JPY (0.0606)	KRW (0.0000)	-0.0320%	-6.5924%
737	CNY (0.9036)	IDR (0.0308)	JPY (0.0613)	MXN (0.0044)	-0.0325%	-6.6899%
738	CNY (0.9072)	IDR (0.0322)	JPY (0.0606)	RUB (0.0000)	-0.0320%	-6.5924%
739	CNY (0.9072)	IDR (0.0322)	JPY (0.0606)	ZAR (0.0000)	-0.0320%	-6.5924%
740	CNY (0.9072)	IDR (0.0322)	JPY (0.0606)	TRY (0.0000)	-0.0320%	-6.5924%
741	CNY (0.8810)	IDR (0.0263)	JPY (0.0486)	EUR (0.0441)	-0.0315%	-6.4964%
742	CNY (0.9525)	IDR (0.0405)	KRW (0.0070)	MXN (0.0000)	-0.0269%	-5.5476%
743	CNY (0.9525)	IDR (0.0405)	KRW (0.0070)	RUB (0.0000)	-0.0269%	-5.5476%
744	CNY (0.9525)	IDR (0.0405)	KRW (0.0070)	ZAR (0.0000)	-0.0269%	-5.5476%
745	CNY (0.9525)	IDR (0.0405)	KRW (0.0070)	TRY (0.0000)	-0.0269%	-5.5476%
746	CNY (0.9050)	IDR (0.0307)	KRW (0.0000)	EUR (0.0643)	-0.0281%	-5.7784%
747	CNY (0.9577)	IDR (0.0423)	MXN (0.0000)	RUB (0.0000)	-0.0274%	-5.6449%
748	CNY (0.9577)	IDR (0.0423)	MXN (0.0000)	ZAR (0.0000)	-0.0274%	-5.6449%
749	CNY (0.9577)	IDR (0.0423)	MXN (0.0000)	TRY (0.0000)	-0.0274%	-5.6449%
750	CNY (0.9050)	IDR (0.0307)	MXN (0.0000)	EUR (0.0643)	-0.0281%	-5.7784%
751	CNY (0.9577)	IDR (0.0423)	RUB (0.0000)	ZAR (0.0000)	-0.0274%	-5.6449%
752	CNY (0.9577)	IDR (0.0423)	RUB (0.0000)	TRY (0.0000)	-0.0274%	-5.6449%
753	CNY (0.9050)	IDR (0.0307)	RUB (0.0000)	EUR (0.0643)	-0.0281%	-5.7784%
754	CNY (0.9577)	IDR (0.0423)	ZAR (0.0000)	TRY (0.0000)	-0.0274%	-5.6449%
755	CNY (0.9050)	IDR (0.0307)	ZAR (0.0000)	EUR (0.0643)	-0.0281%	-5.7784%
756	CNY (0.9050)	IDR (0.0307)	TRY (0.0000)	EUR (0.0643)	-0.0281%	-5.7784%
757	CNY (0.9225)	JPY (0.0652)	KRW (0.0000)	MXN (0.0123)	-0.0299%	-6.1598%
758	CNY (0.9364)	JPY (0.0636)	KRW (0.0000)	RUB (0.0000)	-0.0281%	-5.7831%
759	CNY (0.9364)	JPY (0.0636)	KRW (0.0000)	ZAR (0.0000)	-0.0281%	-5.7831%
760	CNY (0.9356)	JPY (0.0636)	KRW (0.0000)	TRY (0.0008)	-0.0282%	-5.8186%
761	CNY (0.9024)	JPY (0.0501)	KRW (0.0000)	EUR (0.0476)	-0.0284%	-5.8410%
762	CNY (0.9225)	JPY (0.0652)	MXN (0.0123)	RUB (0.0000)	-0.0299%	-6.1598%
763	CNY (0.9225)	JPY (0.0652)	MXN (0.0123)	ZAR (0.0000)	-0.0299%	-6.1598%
764	CNY (0.9225)	JPY (0.0652)	MXN (0.0123)	TRY (0.0000)	-0.0299%	-6.1598%
765	CNY (0.8995)	JPY (0.0507)	MXN (0.0031)	EUR (0.0468)	-0.0288%	-5.9339%
766	CNY (0.9364)	JPY (0.0636)	RUB (0.0000)	ZAR (0.0000)	-0.0281%	-5.7831%
767	CNY (0.9356)	JPY (0.0636)	RUB (0.0000)	TRY (0.0008)	-0.0282%	-5.8186%
768	CNY (0.9024)	JPY (0.0501)	RUB (0.0000)	EUR (0.0476)	-0.0284%	-5.8410%

769	CNY (0.9356)	JPY (0.0636)	ZAR (0.0000)	TRY (0.0008)	-0.0282%	-5.8186%
770	CNY (0.9024)	JPY (0.0501)	ZAR (0.0000)	EUR (0.0476)	-0.0284%	-5.8410%
771	CNY (0.9024)	JPY (0.0501)	TRY (0.0000)	EUR (0.0476)	-0.0284%	-5.8410%
772	CNY (0.9809)	KRW (0.0191)	MXN (0.0000)	RUB (0.0000)	-0.0212%	-4.3702%
773	CNY (0.9809)	KRW (0.0191)	MXN (0.0000)	ZAR (0.0000)	-0.0212%	-4.3702%
774	CNY (0.9809)	KRW (0.0191)	MXN (0.0000)	TRY (0.0000)	-0.0212%	-4.3702%
775	CNY (0.9310)	KRW (0.0000)	MXN (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
776	CNY (0.9809)	KRW (0.0191)	RUB (0.0000)	ZAR (0.0000)	-0.0212%	-4.3702%
777	CNY (0.9809)	KRW (0.0191)	RUB (0.0000)	TRY (0.0000)	-0.0212%	-4.3702%
778	CNY (0.9310)	KRW (0.0000)	RUB (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
779	CNY (0.9809)	KRW (0.0191)	ZAR (0.0000)	TRY (0.0000)	-0.0212%	-4.3702%
780	CNY (0.9310)	KRW (0.0000)	ZAR (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
781	CNY (0.9310)	KRW (0.0000)	TRY (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
782	CNY (0.9978)	MXN (0.0000)	RUB (0.0000)	ZAR (0.0022)	-0.0223%	-4.5967%
783	CNY (0.9953)	MXN (0.0000)	RUB (0.0000)	TRY (0.0047)	-0.0228%	-4.7062%
784	CNY (0.9310)	MXN (0.0000)	RUB (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
785	CNY (0.9953)	MXN (0.0000)	ZAR (0.0003)	TRY (0.0045)	-0.0229%	-4.7100%
786	CNY (0.9310)	MXN (0.0000)	ZAR (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
787	CNY (0.9310)	MXN (0.0000)	TRY (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
788	CNY (0.9953)	RUB (0.0000)	ZAR (0.0003)	TRY (0.0045)	-0.0229%	-4.7100%
789	CNY (0.9310)	RUB (0.0000)	ZAR (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
790	CNY (0.9310)	RUB (0.0000)	TRY (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
791	CNY (0.9310)	ZAR (0.0000)	TRY (0.0000)	EUR (0.0690)	-0.0242%	-4.9823%
792	GBP (0.2498)	INR (0.2958)	IDR (0.2381)	JPY (0.2163)	-0.1133%	-23.3495%
793	GBP (0.2406)	INR (0.2843)	IDR (0.2627)	KRW (0.2124)	-0.0868%	-17.8787%
794	GBP (0.2976)	INR (0.3185)	IDR (0.3164)	MXN (0.0675)	-0.1169%	-24.0766%
795	GBP (0.3139)	INR (0.3529)	IDR (0.3331)	RUB (0.0000)	-0.1134%	-23.3698%
796	GBP (0.3139)	INR (0.3529)	IDR (0.3331)	ZAR (0.0000)	-0.1134%	-23.3698%
797	GBP (0.3139)	INR (0.3529)	IDR (0.3331)	TRY (0.0000)	-0.1134%	-23.3698%
798	GBP (0.1856)	INR (0.3228)	IDR (0.2737)	EUR (0.2179)	-0.1012%	-20.8430%
799	GBP (0.2265)	INR (0.3675)	JPY (0.2231)	KRW (0.1829)	-0.0797%	-16.4224%
800	GBP (0.2350)	INR (0.3292)	JPY (0.2737)	MXN (0.1621)	-0.1110%	-22.8666%
801	GBP (0.2822)	INR (0.4393)	JPY (0.2687)	RUB (0.0098)	-0.1025%	-21.1232%
802	GBP (0.2859)	INR (0.4455)	JPY (0.2686)	ZAR (0.0000)	-0.1002%	-20.6341%
803	GBP (0.2749)	INR (0.4157)	JPY (0.2643)	TRY (0.0452)	-0.1064%	-21.9262%
804	GBP (0.2113)	INR (0.4232)	JPY (0.2245)	EUR (0.1411)	-0.0934%	-19.2425%
805	GBP (0.2497)	INR (0.3946)	KRW (0.2992)	MXN (0.0565)	-0.0653%	-13.4556%
806	GBP (0.2578)	INR (0.4220)	KRW (0.3202)	RUB (0.0000)	-0.0594%	-12.2324%
807	GBP (0.2578)	INR (0.4220)	KRW (0.3202)	ZAR (0.0000)	-0.0594%	-12.2324%
808	GBP (0.2565)	INR (0.4166)	KRW (0.3161)	TRY (0.0108)	-0.0613%	-12.6353%
809	GBP (0.1362)	INR (0.3831)	KRW (0.2482)	EUR (0.2326)	-0.0577%	-11.8959%
810	GBP (0.3500)	INR (0.5046)	MXN (0.1453)	RUB (0.0000)	-0.1027%	-21.1491%
811	GBP (0.3500)	INR (0.5046)	MXN (0.1453)	ZAR (0.0000)	-0.1027%	-21.1491%
812	GBP (0.3453)	INR (0.4914)	MXN (0.1276)	TRY (0.0357)	-0.1065%	-21.9477%

813	GBP (0.1684)	INR (0.4247)	MXN (0.1157)	EUR (0.2912)	-0.0892%	-18.3703%
814	GBP (0.3905)	INR (0.6007)	RUB (0.0088)	ZAR (0.0000)	-0.0952%	-19.6126%
815	GBP (0.3702)	INR (0.5459)	RUB (0.0000)	TRY (0.0838)	-0.1049%	-21.6161%
816	GBP (0.1935)	INR (0.4995)	RUB (0.0023)	EUR (0.3047)	-0.0816%	-16.8006%
817	GBP (0.3702)	INR (0.5459)	ZAR (0.0000)	TRY (0.0838)	-0.1049%	-21.6161%
818	GBP (0.1941)	INR (0.5008)	ZAR (0.0000)	EUR (0.3051)	-0.0810%	-16.6835%
819	GBP (0.1892)	INR (0.4761)	TRY (0.0387)	EUR (0.2959)	-0.0868%	-17.8873%
820	GBP (0.2616)	IDR (0.3295)	JPY (0.2066)	KRW (0.2023)	-0.0983%	-20.2562%
821	GBP (0.2508)	IDR (0.2909)	JPY (0.2585)	MXN (0.1997)	-0.1316%	-27.1123%
822	GBP (0.3357)	IDR (0.4115)	JPY (0.2528)	RUB (0.0000)	-0.1261%	-25.9696%
823	GBP (0.3357)	IDR (0.4115)	JPY (0.2528)	ZAR (0.0000)	-0.1261%	-25.9696%
824	GBP (0.3141)	IDR (0.3699)	JPY (0.2477)	TRY (0.0682)	-0.1329%	-27.3816%
825	GBP (0.2729)	IDR (0.3891)	JPY (0.2183)	EUR (0.1196)	-0.1190%	-24.5178%
826	GBP (0.2687)	IDR (0.3598)	KRW (0.2651)	MXN (0.1064)	-0.0951%	-19.5818%
827	GBP (0.2906)	IDR (0.3956)	KRW (0.3138)	RUB (0.0000)	-0.0853%	-17.5629%
828	GBP (0.2906)	IDR (0.3956)	KRW (0.3138)	ZAR (0.0000)	-0.0853%	-17.5629%
829	GBP (0.2867)	IDR (0.3852)	KRW (0.3044)	TRY (0.0237)	-0.0889%	-18.3201%
830	GBP (0.1858)	IDR (0.3500)	KRW (0.2632)	EUR (0.2011)	-0.0798%	-16.4358%
831	GBP (0.3555)	IDR (0.4567)	MXN (0.1878)	RUB (0.0000)	-0.1344%	-27.6942%
832	GBP (0.3555)	IDR (0.4567)	MXN (0.1878)	ZAR (0.0000)	-0.1344%	-27.6942%
833	GBP (0.3538)	IDR (0.4523)	MXN (0.1814)	TRY (0.0125)	-0.1355%	-27.9133%
834	GBP (0.2072)	IDR (0.3788)	MXN (0.1676)	EUR (0.2463)	-0.1185%	-24.4090%
835	GBP (0.4332)	IDR (0.5668)	RUB (0.0000)	ZAR (0.0000)	-0.1292%	-26.6057%
836	GBP (0.4011)	IDR (0.5058)	RUB (0.0000)	TRY (0.0932)	-0.1384%	-28.5172%
837	GBP (0.2637)	IDR (0.4697)	RUB (0.0000)	EUR (0.2665)	-0.1125%	-23.1773%
838	GBP (0.4011)	IDR (0.5058)	ZAR (0.0000)	TRY (0.0932)	-0.1384%	-28.5172%
839	GBP (0.2637)	IDR (0.4697)	ZAR (0.0000)	EUR (0.2665)	-0.1125%	-23.1773%
840	GBP (0.2497)	IDR (0.4324)	TRY (0.0640)	EUR (0.2540)	-0.1197%	-24.6520%
841	GBP (0.2404)	JPY (0.2940)	KRW (0.2052)	MXN (0.2604)	-0.0975%	-20.0831%
842	GBP (0.3068)	JPY (0.2770)	KRW (0.3889)	RUB (0.0273)	-0.0677%	-13.9455%
843	GBP (0.3161)	JPY (0.2754)	KRW (0.4085)	ZAR (0.0000)	-0.0590%	-12.1609%
844	GBP (0.2842)	JPY (0.2655)	KRW (0.3180)	TRY (0.1323)	-0.0867%	-17.8627%
845	GBP (0.2297)	JPY (0.2255)	KRW (0.3746)	EUR (0.1702)	-0.0545%	-11.2202%
846	GBP (0.2944)	JPY (0.3577)	MXN (0.3480)	RUB (0.0000)	-0.1267%	-26.1001%
847	GBP (0.2944)	JPY (0.3577)	MXN (0.3480)	ZAR (0.0000)	-0.1267%	-26.1001%
848	GBP (0.2876)	JPY (0.3484)	MXN (0.3150)	TRY (0.0491)	-0.1312%	-27.0210%
849	GBP (0.2231)	JPY (0.3102)	MXN (0.3251)	EUR (0.1416)	-0.1183%	-24.3679%
850	GBP (0.4540)	JPY (0.4117)	RUB (0.0477)	ZAR (0.0866)	-0.1297%	-26.7269%
851	GBP (0.3925)	JPY (0.3602)	RUB (0.0244)	TRY (0.2230)	-0.1418%	-29.2063%
852	GBP (0.3551)	JPY (0.3394)	RUB (0.0576)	EUR (0.2479)	-0.1085%	-22.3441%
853	GBP (0.4008)	JPY (0.3603)	ZAR (0.0000)	TRY (0.2390)	-0.1382%	-28.4620%
854	GBP (0.3372)	JPY (0.3320)	ZAR (0.0925)	EUR (0.2383)	-0.1074%	-22.1178%
855	GBP (0.3033)	JPY (0.3009)	TRY (0.2116)	EUR (0.1842)	-0.1254%	-25.8239%
856	GBP (0.3103)	KRW (0.4618)	MXN (0.2280)	RUB (0.0000)	-0.0610%	-12.5664%

857	GBP (0.3103)	KRW (0.4618)	MXN (0.2280)	ZAR (0.0000)	-0.0610%	-12.5664%
858	GBP (0.3025)	KRW (0.4362)	MXN (0.1860)	TRY (0.0753)	-0.0715%	-14.7287%
859	GBP (0.1518)	KRW (0.3538)	MXN (0.2043)	EUR (0.2901)	-0.0591%	-12.1829%
860	GBP (0.3658)	KRW (0.6118)	RUB (0.0224)	ZAR (0.0000)	-0.0361%	-7.4330%
861	GBP (0.3328)	KRW (0.5104)	RUB (0.0019)	TRY (0.1549)	-0.0634%	-13.0515%
862	GBP (0.1905)	KRW (0.4811)	RUB (0.0170)	EUR (0.3114)	-0.0360%	-7.4077%
863	GBP (0.3332)	KRW (0.5109)	ZAR (0.0000)	TRY (0.1559)	-0.0630%	-12.9745%
864	GBP (0.1949)	KRW (0.4916)	ZAR (0.0000)	EUR (0.3136)	-0.0307%	-6.3182%
865	GBP (0.1806)	KRW (0.4158)	TRY (0.1184)	EUR (0.2853)	-0.0563%	-11.5885%
866	GBP (0.5235)	MXN (0.4765)	RUB (0.0000)	ZAR (0.0000)	-0.1267%	-26.1094%
867	GBP (0.4769)	MXN (0.3439)	RUB (0.0000)	TRY (0.1791)	-0.1430%	-29.4661%
868	GBP (0.2278)	MXN (0.3605)	RUB (0.0000)	EUR (0.4117)	-0.1023%	-21.0696%
869	GBP (0.4769)	MXN (0.3439)	ZAR (0.0000)	TRY (0.1791)	-0.1430%	-29.4661%
870	GBP (0.2278)	MXN (0.3605)	ZAR (0.0000)	EUR (0.4117)	-0.1023%	-21.0696%
871	GBP (0.2212)	MXN (0.2939)	TRY (0.1002)	EUR (0.3846)	-0.1130%	-23.2801%
872	GBP (0.5970)	RUB (0.0239)	ZAR (0.0082)	TRY (0.3708)	-0.1551%	-31.9434%
873	GBP (0.3343)	RUB (0.0441)	ZAR (0.0998)	EUR (0.5218)	-0.0996%	-20.5273%
874	GBP (0.2969)	RUB (0.0186)	TRY (0.2579)	EUR (0.4266)	-0.1193%	-24.5720%
875	GBP (0.3020)	ZAR (0.0000)	TRY (0.2696)	EUR (0.4284)	-0.1164%	-23.9756%
876	INR (0.3238)	IDR (0.2248)	JPY (0.2142)	KRW (0.2373)	-0.0863%	-17.7711%
877	INR (0.2933)	IDR (0.2311)	JPY (0.2826)	MXN (0.1929)	-0.1261%	-25.9683%
878	INR (0.4205)	IDR (0.2958)	JPY (0.2774)	RUB (0.0062)	-0.1183%	-24.3722%
879	INR (0.4176)	IDR (0.2950)	JPY (0.2762)	ZAR (0.0113)	-0.1183%	-24.3674%
880	INR (0.4004)	IDR (0.2831)	JPY (0.2742)	TRY (0.0424)	-0.1220%	-25.1259%
881	INR (0.3447)	IDR (0.2331)	JPY (0.1789)	EUR (0.2433)	-0.1016%	-20.9199%
882	INR (0.3242)	IDR (0.2754)	KRW (0.3360)	MXN (0.0644)	-0.0775%	-15.9596%
883	INR (0.3530)	IDR (0.2856)	KRW (0.3614)	RUB (0.0000)	-0.0711%	-14.6508%
884	INR (0.3530)	IDR (0.2856)	KRW (0.3614)	ZAR (0.0000)	-0.0711%	-14.6508%
885	INR (0.3530)	IDR (0.2856)	KRW (0.3614)	TRY (0.0000)	-0.0711%	-14.6508%
886	INR (0.2962)	IDR (0.2192)	KRW (0.2139)	EUR (0.2708)	-0.0727%	-14.9666%
887	INR (0.4300)	IDR (0.3926)	MXN (0.1774)	RUB (0.0000)	-0.1268%	-26.1209%
888	INR (0.4300)	IDR (0.3926)	MXN (0.1774)	ZAR (0.0000)	-0.1268%	-26.1209%
889	INR (0.4295)	IDR (0.3920)	MXN (0.1765)	TRY (0.0019)	-0.1270%	-26.1582%
890	INR (0.3190)	IDR (0.2567)	MXN (0.0946)	EUR (0.3298)	-0.1012%	-20.8548%
891	INR (0.5325)	IDR (0.4394)	RUB (0.0000)	ZAR (0.0281)	-0.1216%	-25.0475%
892	INR (0.5074)	IDR (0.4225)	RUB (0.0000)	TRY (0.0702)	-0.1266%	-26.0857%
893	INR (0.3720)	IDR (0.2797)	RUB (0.0000)	EUR (0.3483)	-0.0956%	-19.6892%
894	INR (0.5063)	IDR (0.4211)	ZAR (0.0057)	TRY (0.0669)	-0.1269%	-26.1374%
895	INR (0.3720)	IDR (0.2797)	ZAR (0.0000)	EUR (0.3483)	-0.0956%	-19.6892%
896	INR (0.3720)	IDR (0.2797)	TRY (0.0000)	EUR (0.3483)	-0.0956%	-19.6892%
897	INR (0.3404)	JPY (0.2683)	KRW (0.2219)	MXN (0.1694)	-0.0869%	-17.8930%
898	INR (0.4312)	JPY (0.2476)	KRW (0.3096)	RUB (0.0116)	-0.0686%	-14.1275%
899	INR (0.4372)	JPY (0.2465)	KRW (0.3164)	ZAR (0.0000)	-0.0650%	-13.3893%
900	INR (0.4173)	JPY (0.2459)	KRW (0.2998)	TRY (0.0370)	-0.0720%	-14.8273%

901	INR (0.3811)	JPY (0.1723)	KRW (0.2207)	EUR (0.2259)	-0.0648%	-13.3443%
902	INR (0.4005)	JPY (0.3398)	MXN (0.2597)	RUB (0.0000)	-0.1177%	-24.2555%
903	INR (0.4005)	JPY (0.3398)	MXN (0.2597)	ZAR (0.0000)	-0.1177%	-24.2555%
904	INR (0.3994)	JPY (0.3394)	MXN (0.2580)	TRY (0.0032)	-0.1181%	-24.3226%
905	INR (0.3487)	JPY (0.2329)	MXN (0.1833)	EUR (0.2351)	-0.1013%	-20.8628%
906	INR (0.5790)	JPY (0.3448)	RUB (0.0264)	ZAR (0.0498)	-0.1136%	-23.4102%
907	INR (0.5361)	JPY (0.3365)	RUB (0.0226)	TRY (0.1049)	-0.1205%	-24.8214%
908	INR (0.4760)	JPY (0.2161)	RUB (0.0157)	EUR (0.2921)	-0.0901%	-18.5678%
909	INR (0.5377)	JPY (0.3346)	ZAR (0.0257)	TRY (0.1020)	-0.1181%	-24.3323%
910	INR (0.4834)	JPY (0.2148)	ZAR (0.0057)	EUR (0.2961)	-0.0869%	-17.9028%
911	INR (0.4536)	JPY (0.2135)	TRY (0.0498)	EUR (0.2830)	-0.0937%	-19.2962%
912	INR (0.4529)	KRW (0.4419)	MXN (0.1053)	RUB (0.0000)	-0.0521%	-10.7368%
913	INR (0.4529)	KRW (0.4419)	MXN (0.1053)	ZAR (0.0000)	-0.0521%	-10.7368%
914	INR (0.4502)	KRW (0.4397)	MXN (0.1015)	TRY (0.0085)	-0.0533%	-10.9818%
915	INR (0.3661)	KRW (0.2573)	MXN (0.0707)	EUR (0.3059)	-0.0580%	-11.9570%
916	INR (0.5069)	KRW (0.4887)	RUB (0.0045)	ZAR (0.0000)	-0.0412%	-8.4965%
917	INR (0.4861)	KRW (0.4715)	RUB (0.0000)	TRY (0.0423)	-0.0480%	-9.8850%
918	INR (0.4016)	KRW (0.2860)	RUB (0.0000)	EUR (0.3124)	-0.0501%	-10.3117%
919	INR (0.4862)	KRW (0.4715)	ZAR (0.0000)	TRY (0.0423)	-0.0480%	-9.8830%
920	INR (0.4016)	KRW (0.2860)	ZAR (0.0000)	EUR (0.3124)	-0.0501%	-10.3117%
921	INR (0.4016)	KRW (0.2860)	TRY (0.0000)	EUR (0.3124)	-0.0501%	-10.3117%
922	INR (0.6967)	MXN (0.3033)	RUB (0.0000)	ZAR (0.0000)	-0.1107%	-22.7941%
923	INR (0.6531)	MXN (0.2489)	RUB (0.0000)	TRY (0.0981)	-0.1210%	-24.9300%
924	INR (0.4488)	MXN (0.1492)	RUB (0.0000)	EUR (0.4020)	-0.0863%	-17.7786%
925	INR (0.6531)	MXN (0.2489)	ZAR (0.0000)	TRY (0.0981)	-0.1210%	-24.9300%
926	INR (0.4488)	MXN (0.1492)	ZAR (0.0000)	EUR (0.4020)	-0.0863%	-17.7786%
927	INR (0.4488)	MXN (0.1492)	TRY (0.0000)	EUR (0.4020)	-0.0863%	-17.7786%
928	INR (0.7674)	RUB (0.0163)	ZAR (0.0505)	TRY (0.1658)	-0.1249%	-25.7247%
929	INR (0.5492)	RUB (0.0109)	ZAR (0.0000)	EUR (0.4399)	-0.0775%	-15.9578%
930	INR (0.5172)	RUB (0.0046)	TRY (0.0536)	EUR (0.4246)	-0.0842%	-17.3358%
931	INR (0.5186)	ZAR (0.0000)	TRY (0.0560)	EUR (0.4253)	-0.0833%	-17.1690%
932	IDR (0.2843)	JPY (0.2645)	KRW (0.2241)	MXN (0.2271)	-0.1084%	-22.3327%
933	IDR (0.3790)	JPY (0.2365)	KRW (0.3797)	RUB (0.0048)	-0.0834%	-17.1717%
934	IDR (0.3822)	JPY (0.2357)	KRW (0.3821)	ZAR (0.0000)	-0.0821%	-16.9130%
935	IDR (0.3475)	JPY (0.2357)	KRW (0.3444)	TRY (0.0724)	-0.0942%	-19.3963%
936	IDR (0.3244)	JPY (0.1595)	KRW (0.2756)	EUR (0.2405)	-0.0788%	-16.2296%
937	IDR (0.3428)	JPY (0.3331)	MXN (0.3241)	RUB (0.0000)	-0.1436%	-29.5784%
938	IDR (0.3428)	JPY (0.3331)	MXN (0.3241)	ZAR (0.0000)	-0.1436%	-29.5784%
939	IDR (0.3420)	JPY (0.3328)	MXN (0.3226)	TRY (0.0026)	-0.1438%	-29.6219%
940	IDR (0.2896)	JPY (0.2324)	MXN (0.2464)	EUR (0.2315)	-0.1240%	-25.5395%
941	IDR (0.5384)	JPY (0.3573)	RUB (0.0172)	ZAR (0.0871)	-0.1510%	-31.1064%
942	IDR (0.4737)	JPY (0.3402)	RUB (0.0113)	TRY (0.1749)	-0.1578%	-32.5012%
943	IDR (0.4385)	JPY (0.2125)	RUB (0.0122)	EUR (0.3368)	-0.1153%	-23.7490%
944	IDR (0.4709)	JPY (0.3375)	ZAR (0.0297)	TRY (0.1619)	-0.1571%	-32.3585%

945	IDR (0.4326)	JPY (0.2116)	ZAR (0.0264)	EUR (0.3293)	-0.1159%	-23.8748%
946	IDR (0.3858)	JPY (0.2092)	TRY (0.1000)	EUR (0.3050)	-0.1243%	-25.6145%
947	IDR (0.3980)	KRW (0.4272)	MXN (0.1748)	RUB (0.0000)	-0.0835%	-17.1990%
948	IDR (0.3980)	KRW (0.4272)	MXN (0.1748)	ZAR (0.0000)	-0.0835%	-17.1990%
949	IDR (0.3971)	KRW (0.4264)	MXN (0.1732)	TRY (0.0034)	-0.0839%	-17.2793%
950	IDR (0.3087)	KRW (0.2590)	MXN (0.1336)	EUR (0.2987)	-0.0819%	-16.8719%
951	IDR (0.4655)	KRW (0.5345)	RUB (0.0000)	ZAR (0.0000)	-0.0649%	-13.3611%
952	IDR (0.4308)	KRW (0.4968)	RUB (0.0000)	TRY (0.0724)	-0.0769%	-15.8441%
953	IDR (0.3541)	KRW (0.3295)	RUB (0.0000)	EUR (0.3164)	-0.0678%	-13.9727%
954	IDR (0.4308)	KRW (0.4968)	ZAR (0.0000)	TRY (0.0724)	-0.0769%	-15.8441%
955	IDR (0.3541)	KRW (0.3295)	ZAR (0.0000)	EUR (0.3164)	-0.0678%	-13.9727%
956	IDR (0.3433)	KRW (0.3191)	TRY (0.0256)	EUR (0.3120)	-0.0721%	-14.8434%
957	IDR (0.6173)	MXN (0.3827)	RUB (0.0000)	ZAR (0.0000)	-0.1550%	-31.9377%
958	IDR (0.5849)	MXN (0.3361)	RUB (0.0000)	TRY (0.0790)	-0.1612%	-33.1989%
959	IDR (0.3882)	MXN (0.2222)	RUB (0.0000)	EUR (0.3896)	-0.1162%	-23.9418%
960	IDR (0.5849)	MXN (0.3361)	ZAR (0.0000)	TRY (0.0790)	-0.1612%	-33.1989%
961	IDR (0.3882)	MXN (0.2222)	ZAR (0.0000)	EUR (0.3896)	-0.1162%	-23.9418%
962	IDR (0.3882)	MXN (0.2222)	TRY (0.0000)	EUR (0.3896)	-0.1162%	-23.9418%
963	IDR (0.7151)	RUB (0.0000)	ZAR (0.0530)	TRY (0.2319)	-0.1758%	-36.2236%
964	IDR (0.5119)	RUB (0.0000)	ZAR (0.0213)	EUR (0.4669)	-0.1092%	-22.4903%
965	IDR (0.4591)	RUB (0.0000)	TRY (0.1034)	EUR (0.4375)	-0.1187%	-24.4535%
966	IDR (0.4591)	ZAR (0.0000)	TRY (0.1034)	EUR (0.4375)	-0.1187%	-24.4535%
967	JPY (0.3341)	KRW (0.3300)	MXN (0.3359)	RUB (0.0000)	-0.0892%	-18.3746%
968	JPY (0.3341)	KRW (0.3300)	MXN (0.3359)	ZAR (0.0000)	-0.0892%	-18.3746%
969	JPY (0.3286)	KRW (0.3181)	MXN (0.3104)	TRY (0.0429)	-0.0947%	-19.5027%
970	JPY (0.2441)	KRW (0.2457)	MXN (0.2734)	EUR (0.2369)	-0.0827%	-17.0381%
971	JPY (0.3263)	KRW (0.6074)	RUB (0.0472)	ZAR (0.0191)	-0.0520%	-10.7185%
972	JPY (0.3056)	KRW (0.4921)	RUB (0.0241)	TRY (0.1782)	-0.0804%	-16.5599%
973	JPY (0.2082)	KRW (0.4455)	RUB (0.0315)	EUR (0.3148)	-0.0477%	-9.8187%
974	JPY (0.3039)	KRW (0.5038)	ZAR (0.0000)	TRY (0.1923)	-0.0753%	-15.5032%
975	JPY (0.2037)	KRW (0.4699)	ZAR (0.0002)	EUR (0.3262)	-0.0369%	-7.6095%
976	JPY (0.2045)	KRW (0.3783)	TRY (0.1332)	EUR (0.2839)	-0.0669%	-13.7725%
977	JPY (0.4694)	MXN (0.5306)	RUB (0.0000)	ZAR (0.0000)	-0.1401%	-28.8680%
978	JPY (0.4457)	MXN (0.4563)	RUB (0.0000)	TRY (0.0980)	-0.1484%	-30.5771%
979	JPY (0.3121)	MXN (0.3889)	RUB (0.0000)	EUR (0.2990)	-0.1155%	-23.7944%
980	JPY (0.4457)	MXN (0.4563)	ZAR (0.0000)	TRY (0.0980)	-0.1484%	-30.5771%
981	JPY (0.3121)	MXN (0.3889)	ZAR (0.0000)	EUR (0.2990)	-0.1155%	-23.7944%
982	JPY (0.3052)	MXN (0.3564)	TRY (0.0488)	EUR (0.2896)	-0.1204%	-24.8071%
983	JPY (0.5096)	RUB (0.0488)	ZAR (0.0931)	TRY (0.3485)	-0.1803%	-37.1332%
984	JPY (0.3348)	RUB (0.0548)	ZAR (0.1278)	EUR (0.4826)	-0.1148%	-23.6487%
985	JPY (0.3013)	RUB (0.0359)	TRY (0.2509)	EUR (0.4119)	-0.1296%	-26.6928%
986	JPY (0.2996)	ZAR (0.0391)	TRY (0.2495)	EUR (0.4118)	-0.1260%	-25.9640%
987	KRW (0.6765)	MXN (0.3235)	RUB (0.0000)	ZAR (0.0000)	-0.0432%	-8.8936%
988	KRW (0.6311)	MXN (0.2584)	RUB (0.0000)	TRY (0.1104)	-0.0592%	-12.1982%

989	KRW (0.3918)	MXN (0.2288)	RUB (0.0000)	EUR (0.3794)	-0.0526%	-10.8453%
990	KRW (0.6311)	MXN (0.2584)	ZAR (0.0000)	TRY (0.1104)	-0.0592%	-12.1982%
991	KRW (0.3918)	MXN (0.2288)	ZAR (0.0000)	EUR (0.3794)	-0.0526%	-10.8453%
992	KRW (0.3807)	MXN (0.2069)	TRY (0.0402)	EUR (0.3722)	-0.0583%	-12.0120%
993	KRW (0.7606)	RUB (0.0171)	ZAR (0.0000)	TRY (0.2223)	-0.0486%	-10.0149%
994	KRW (0.5466)	RUB (0.0244)	ZAR (0.0000)	EUR (0.4290)	-0.0255%	-5.2585%
995	KRW (0.4710)	RUB (0.0075)	TRY (0.1278)	EUR (0.3936)	-0.0487%	-10.0261%
996	KRW (0.4736)	ZAR (0.0000)	TRY (0.1320)	EUR (0.3945)	-0.0471%	-9.7070%
997	MXN (0.6478)	RUB (0.0000)	ZAR (0.0000)	TRY (0.3522)	-0.1849%	-38.0828%
998	MXN (0.4258)	RUB (0.0000)	ZAR (0.0000)	EUR (0.5742)	-0.0993%	-20.4638%
999	MXN (0.3495)	RUB (0.0000)	TRY (0.1118)	EUR (0.5387)	-0.1114%	-22.9476%
1000	MXN (0.3495)	ZAR (0.0000)	TRY (0.1118)	EUR (0.5387)	-0.1114%	-22.9476%
1001	RUB (0.0286)	ZAR (0.0298)	TRY (0.2935)	EUR (0.6480)	-0.1211%	-24.9463%

**Table S1.** 1001 portfolios constructed for all combinations of 4 currencies out of 14 currencies. The portfolio weights obtained by Markowitz minimal variance criteria is given in the bracket. Also, mean returns and accumulative returns are listed.

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