



### SUMMARY

#### Best RECEIVERS (Underperformers)

PEN

#### Best PAYERS (Outperformers)

COP

#### Best CROSSES Rec / Pay

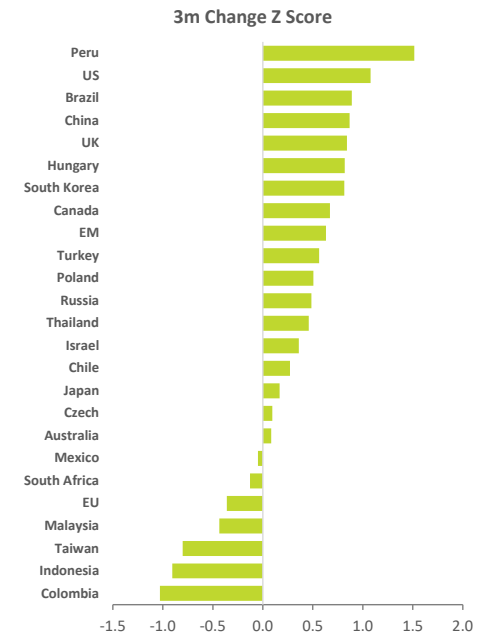
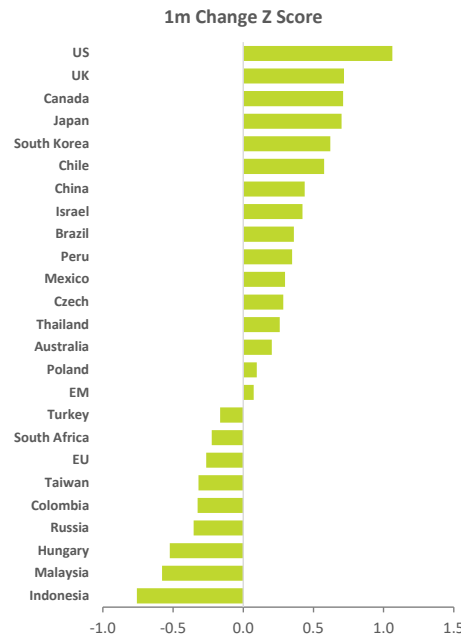
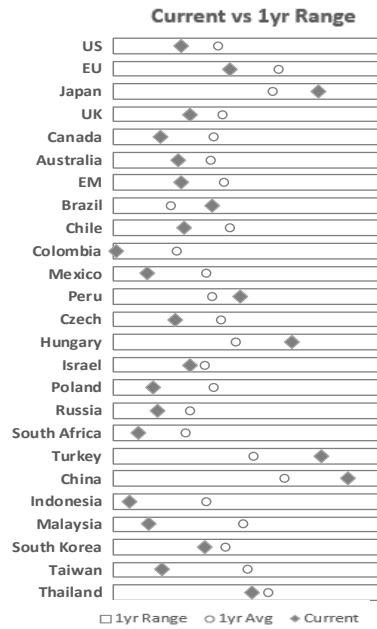
PEN / COP  
BRL / COP  
PEN / IDR  
BRL / IDR

### COMMENTS

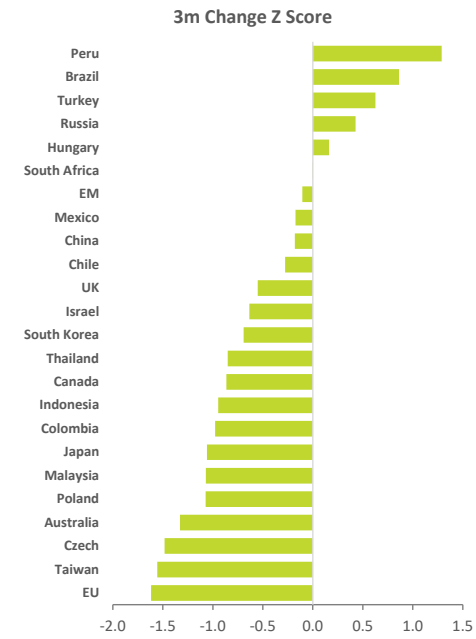
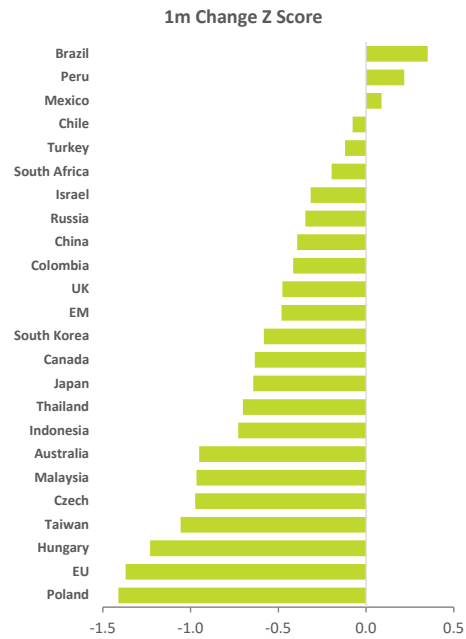
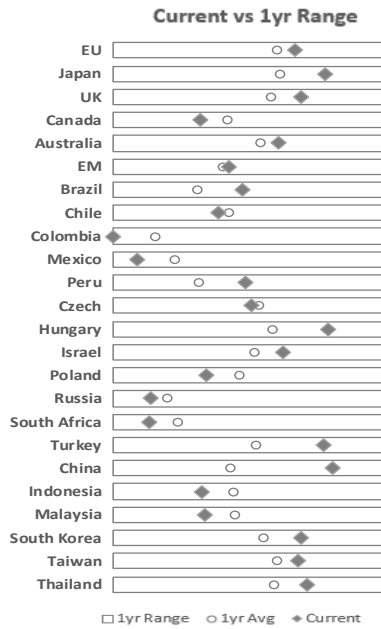
- Global rates have bounced up but still close to their 1-year lows, though most have underperformed **US** rates move
- While **TRY** rates have underperformed, they remain vulnerable to further widening with real rates negative
- If anything, the z-score of **TRY** rates staying below 1 indicates that not enough risk is priced in yet

### NOTES

- The charts and tables in this document seek to identify leaders and laggards in EM 10y rates markets
- Two approaches are used:
  - Comparing 1m and 3m changes relative to an asset's own history
  - Comparing 1m and 3m changes relative to other assets based on beta to an index
- As such, the analysis is not a forecasting tool but to be used for identifying dislocations, which we loosely define as those that cannot be justified by fundamentals
- Returns are not annualized, and are computed assuming mean reversion over a 3-month investment horizon

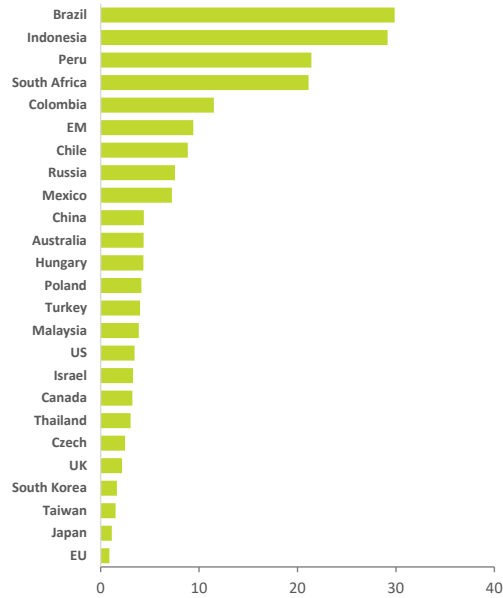


	Spot Today	1-year			Change				1-year Price Change		Beta Implied Change				Average Z Score		
		Weakest	Strongest	Average	1d	1m	3m	1y	1m Zscore	3m Zscore	1m Beta	1m Zscore	3m Beta	3m Zscore	1m	3m	
Global	US	0.86	1.94	0.50	1.07	1	19	28	-90	1.2	1.2	0.10	1.0	0.02	0.9	1.1	1.1
	EU	-0.55	-0.17	-0.84	-0.42	2	-5	-7	-14	-0.2	-0.1	0.33	-0.4	0.15	-0.6	-0.3	-0.4
	Japan	0.04	0.10	-0.18	-0.01	1	3	2	18	0.7	0.4	0.15	0.7	0.10	0.0	0.7	0.2
	UK	0.31	0.87	0.08	0.40	2	9	18	-32	0.8	1.2	0.37	0.6	0.37	0.5	0.7	0.8
	Canada	0.66	1.70	0.44	0.92	0	11	16	-86	0.8	0.9	0.21	0.6	0.23	0.4	0.7	0.7
LatAm	Australia	0.86	1.61	0.62	0.98	3	1	-1	-23	0.4	0.4	0.31	0.0	0.15	-0.2	0.2	0.1
	EM	3.18	3.93	2.92	3.35	1	0	25	-48	0.1	1.3	1.00	0.0	1.00	0.0	0.1	0.6
	Brazil	7.58	9.84	6.25	7.02	0	21	104	102	0.4	1.3	2.97	0.3	2.59	0.4	0.4	0.9
	Chile	2.32	3.47	1.90	2.59	3	10	18	-25	0.7	0.9	0.66	0.5	1.12	-0.3	0.6	0.3
	Colombia	4.20	7.34	4.16	4.91	0	-12	-19	-106	-0.2	-0.3	2.02	-0.4	2.03	-1.8	-0.3	-1.0
CEEMEA	Mexico	5.81	7.79	5.52	6.31	-4	8	18	-91	0.4	0.5	1.70	0.2	1.88	-0.6	0.3	0.0
	Peru	4.36	5.65	3.20	4.10	0	11	91	26	0.4	2.3	2.59	0.3	2.35	0.8	0.3	1.5
	Czech	0.85	1.87	0.54	1.08	-1	5	2	-50	0.3	0.2	-0.11	0.2	0.05	0.0	0.3	0.1
	Hungary	1.69	1.96	1.13	1.52	0	-14	36	46	-0.5	1.0	0.33	-0.5	0.49	0.6	-0.5	0.8
	Israel	0.65	1.30	0.39	0.70	2	5	11	-19	0.5	0.9	0.73	0.3	0.55	-0.2	0.4	0.4
Asia	Poland	0.94	2.10	0.74	1.25	2	-1	8	-76	0.2	0.6	-0.08	0.0	-0.08	0.4	0.1	0.5
	Russia	6.10	8.80	5.57	6.50	0	-16	53	-84	-0.3	1.1	2.21	-0.4	2.36	-0.1	-0.4	0.5
	South Africa	6.95	9.63	6.68	7.49	3	-10	27	-60	-0.2	0.6	2.66	-0.3	2.85	-0.8	-0.2	-0.1
	Turkey	13.55	14.56	9.86	12.34	12	-20	161	46	-0.2	0.7	2.87	-0.1	3.35	0.4	-0.2	0.6
	China	3.17	3.33	1.96	2.85	2	8	24	-1	0.5	0.9	0.11	0.4	-0.07	0.8	0.4	0.9
Asia	Indonesia	6.63	8.32	6.52	7.14	2	-28	-28	-44	-0.8	-0.6	1.52	-0.8	1.41	-1.2	-0.8	-0.9
	Malaysia	2.64	3.57	2.50	3.02	2	-11	-5	-80	-0.5	0.1	0.79	-0.7	0.55	-1.0	-0.6	-0.4
	South Korea	1.07	1.50	0.84	1.12	-1	7	15	-26	0.7	1.2	0.30	0.5	0.27	0.5	0.6	0.8
	Taiwan	0.75	1.02	0.69	0.85	0	-3	-8	-25	-0.2	-0.7	0.08	-0.4	0.01	-0.9	-0.3	-0.8
	Thailand	1.14	1.63	0.60	1.20	0	3	10	-43	0.4	0.8	0.55	0.2	0.31	0.1	0.3	0.5

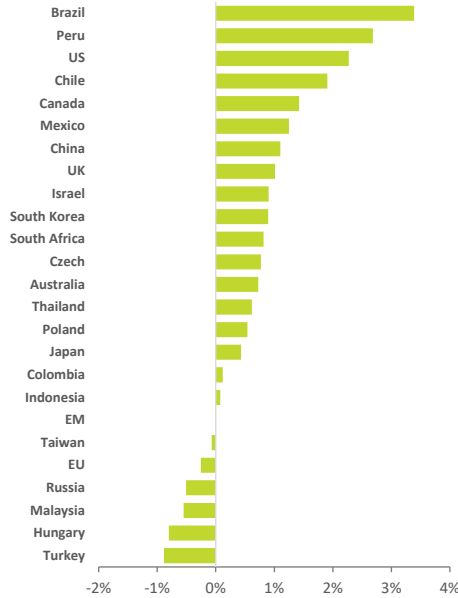


	Spd to US				Change				1-year Price Change		Beta Implied Change				Average Z Score		
	Today	Weakest	Strongest	Average	1d	1m	3m	1y	1m Zscore	3m Zscore	1m Beta	1m Zscore	3m Beta	3m Zscore	1m	3m	
Global	EU	-141	-102	-220	-149	1	-23	-35	76	-1.8	-1.7	0.54	-1.0	0.57	-1.5	-1.4	-1.6
	Japan	-82	-50	-201	-108	-1	-15	-26	109	-1.1	-1.2	0.66	-0.2	0.71	-0.9	-0.6	-1.1
	UK	-56	-27	-120	-66	1	-10	-10	58	-0.9	-0.7	0.50	-0.1	0.56	-0.4	-0.5	-0.5
	Canada	-20	12	-35	-15	-1	-8	-12	4	-0.8	-0.9	0.21	-0.4	0.24	-0.8	-0.6	-0.9
	Australia	0	48	-76	-9	2	-18	-29	68	-1.2	-1.3	0.48	-0.7	0.53	-1.3	-1.0	-1.3
LatAm	EM	232	322	164	228	0	-18	-3	42	-1.0	-0.2	1.00	0.0	1.00	0.0	-0.5	-0.1
	Brazil	672	907	457	596	-1	2	76	192	0.1	0.9	2.32	0.6	2.09	0.9	0.4	0.9
	Chile	146	248	80	152	2	-9	-10	65	-0.4	-0.3	0.71	0.2	0.73	-0.3	-0.1	-0.3
	Colombia	334	661	334	384	-1	-31	-46	-16	-0.8	-1.0	1.70	0.0	1.42	-0.9	-0.4	-1.0
	Mexico	495	692	475	525	-5	-11	-10	-1	-0.3	-0.2	1.50	0.5	1.48	-0.1	0.1	-0.2
CEEMEA	Peru	350	486	219	304	-1	-7	63	117	-0.2	1.2	1.81	0.7	1.63	1.4	0.2	1.3
	Czech	-1	44	-48	1	-2	-14	-26	40	-1.1	-1.6	0.04	-0.9	0.10	-1.4	-1.0	-1.5
	Hungary	83	122	-66	45	-1	-33	8	136	-1.5	0.1	0.55	-1.0	0.75	0.3	-1.2	0.2
	Israel	-21	34	-114	-36	1	-14	-17	71	-0.8	-0.7	0.89	0.1	0.88	-0.5	-0.3	-0.6
	Poland	8	62	-20	18	0	-19	-20	14	-1.4	-1.0	0.06	-1.4	0.06	-1.1	-1.4	-1.1
Asia	Russia	524	792	481	543	-1	-35	25	6	-0.7	0.4	1.99	0.0	1.78	0.5	-0.3	0.4
	South Africa	609	881	567	642	2	-29	-1	30	-0.6	-0.1	2.20	0.3	2.22	0.1	-0.2	0.0
	Turkey	1269	1395	831	1128	11	-39	133	136	-0.3	0.6	2.86	0.1	3.47	0.7	-0.1	0.6
	China	231	258	118	178	1	-11	-4	89	-0.6	-0.2	0.30	-0.2	0.15	-0.1	-0.4	-0.2
	Indonesia	577	751	493	608	1	-46	-56	46	-1.2	-1.1	1.84	-0.3	1.88	-0.8	-0.7	-0.9
	Malaysia	178	280	126	196	1	-30	-33	11	-1.4	-1.1	0.92	-0.6	0.87	-1.0	-1.0	-1.1
	South Korea	21	54	-55	5	-3	-12	-13	64	-1.0	-0.8	0.51	-0.2	0.54	-0.6	-0.6	-0.7
Taiwan	-12	29	-99	-22	-1	-21	-36	65	-1.5	-1.7	0.59	-0.6	0.64	-1.4	-1.1	-1.6	
Thailand	28	62	-59	13	-1	-16	-18	47	-1.1	-0.9	0.63	-0.3	0.60	-0.8	-0.7	-0.9	

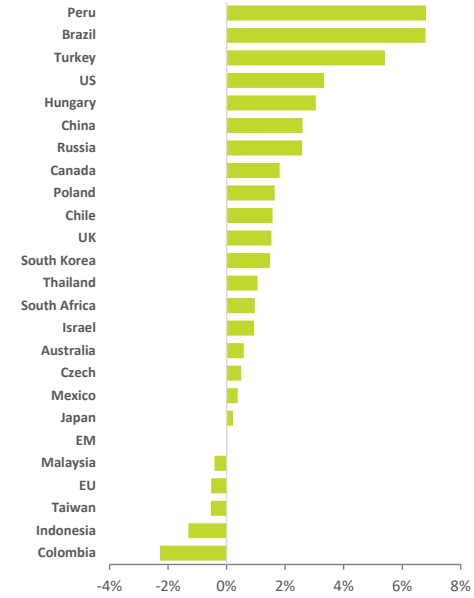
3m Total Carry Ranking



3m Return - 1m Change



3m Return - 3m Change



	Level Today	Carry 3m	Rolldown 3m	Total 3m	1-year Price Change				Beta Implied Change				Average 3m Return		
					Fair Value	3m Return	Fair Value	3m Return	Fair Value	3m Return	Fair Value	3m Return	1m	3m	
Global	US	0.86	1.7	1.7	3.4	0.64	2.5%	0.50	3.7%	0.68	2.1%	0.59	2.9%	2.3%	3.3%
	EU	-0.55	-0.1	1.0	0.9	-0.53	-0.1%	-0.53	-0.1%	-0.50	-0.4%	-0.44	-1.0%	-0.3%	-0.5%
	Japan	0.04	0.4	0.8	1.1	0.01	0.4%	0.02	0.3%	0.01	0.4%	0.04	0.1%	0.4%	0.2%
	UK	0.31	0.8	1.4	2.2	0.19	1.1%	0.07	2.1%	0.22	0.9%	0.22	0.9%	1.0%	1.5%
	Canada	0.66	1.3	2.0	3.2	0.52	1.6%	0.43	2.4%	0.56	1.3%	0.56	1.2%	1.4%	1.8%
	Australia	0.86	2.1	2.3	4.4	0.80	1.0%	0.78	1.2%	0.85	0.5%	0.91	-0.1%	0.7%	0.6%
LatAm	EM	3.18	6.1	3.3	9.4	3.16	0.0%	2.89	0.0%	3.18	0.0%	3.18	0.0%	0.0%	0.0%
	Brazil	7.58	20.9	9.0	29.9	7.31	3.6%	6.42	9.3%	7.38	3.2%	7.20	4.3%	3.4%	6.8%
	Chile	2.32	5.2	3.7	8.8	2.17	2.1%	2.05	3.3%	2.22	1.7%	2.42	-0.1%	1.9%	1.6%
	Colombia	4.20	7.7	3.8	11.5	4.28	0.3%	4.30	0.1%	4.32	-0.1%	4.90	-4.7%	0.1%	-2.3%
	Mexico	5.81	4.3	2.9	7.2	5.69	1.4%	5.56	2.4%	5.73	1.1%	6.10	-1.6%	1.3%	0.4%
CEEMEA	Peru	4.36	13.0	8.4	21.4	4.23	2.8%	3.40	9.4%	4.25	2.6%	4.04	4.3%	2.7%	6.8%
	Czech	0.85	1.3	1.1	2.5	0.78	0.9%	0.80	0.7%	0.80	0.7%	0.84	0.3%	0.8%	0.5%
	Hungary	1.69	2.5	1.8	4.3	1.82	-0.8%	1.31	3.7%	1.83	-0.9%	1.46	2.4%	-0.8%	3.0%
	Israel	0.65	1.5	1.8	3.3	0.57	1.0%	0.49	1.8%	0.60	0.8%	0.68	0.0%	0.9%	0.9%
	Poland	0.94	2.5	1.7	4.1	0.90	0.8%	0.77	2.0%	0.95	0.3%	0.84	1.3%	0.5%	1.6%
	Russia	6.10	4.9	2.7	7.6	6.22	-0.4%	5.49	5.1%	6.26	-0.7%	6.17	0.1%	-0.5%	2.6%
	South Africa	6.95	13.2	7.9	21.1	7.03	0.9%	6.64	3.6%	7.06	0.7%	7.40	-1.6%	0.8%	1.0%
	Turkey	13.55	4.0	0.0	4.0	13.81	-1.0%	12.07	7.1%	13.76	-0.8%	12.79	3.7%	-0.9%	5.4%
	China	3.17	2.5	1.9	4.4	3.07	1.2%	2.89	2.7%	3.09	1.0%	2.91	2.5%	1.1%	2.6%
	Indonesia	6.63	21.2	7.9	29.2	6.91	0.1%	6.93	0.0%	6.91	0.1%	7.27	-2.6%	0.1%	-1.3%
Asia	Malaysia	2.64	1.9	2.0	3.9	2.72	-0.4%	2.63	0.5%	2.76	-0.7%	2.83	-1.3%	-0.5%	-0.4%
	South Korea	1.07	1.2	0.5	1.7	0.98	1.0%	0.87	2.0%	1.01	0.8%	0.99	0.9%	0.9%	1.5%
	Taiwan	0.75	0.7	0.8	1.5	0.76	0.0%	0.81	-0.4%	0.77	-0.1%	0.83	-0.6%	-0.1%	-0.5%
	Thailand	1.14	1.7	1.3	3.1	1.09	0.7%	0.99	1.6%	1.12	0.5%	1.12	0.5%	0.6%	1.1%

Cross Rates 3m Returns (based on mean reversion of 3m changes)

		SHORT																						
		US	EU	Japan	UK	Australia	Brazil	Chile	Colombia	Mexico	Peru	Czech	Hungary	Israel	Poland	Russia	South Africa	Turkey	China	Indonesia	Malaysia	South Korea	Taiwan	Thailand
LONG	US	0.0%	3.9%	3.1%	1.8%	2.7%	-3.5%	1.8%	5.6%	3.0%	-3.5%	2.8%	0.3%	2.4%	1.7%	0.7%	2.4%	-2.1%	0.7%	4.6%	3.7%	1.8%	3.9%	2.3%
	EU	-3.9%	0.0%	-0.8%	-2.1%	-1.1%	-7.3%	-2.1%	1.8%	-0.9%	-7.3%	-1.0%	-3.6%	-1.5%	-2.2%	-3.1%	-1.5%	-5.9%	-3.1%	0.8%	-0.1%	-2.0%	0.0%	-1.6%
	Japan	-3.1%	0.8%	0.0%	-1.3%	-0.4%	-6.6%	-1.3%	2.5%	-0.2%	-6.6%	-0.3%	-2.8%	-0.7%	-1.4%	-2.4%	-0.7%	-5.2%	-2.4%	1.5%	0.6%	-1.3%	0.8%	-0.8%
	UK	-1.8%	2.1%	1.3%	0.0%	0.9%	-5.3%	0.0%	3.8%	1.2%	-5.3%	1.0%	-1.5%	0.6%	-0.1%	-1.1%	0.6%	-3.9%	-1.1%	2.8%	1.9%	0.0%	2.1%	0.5%
	Australia	-2.7%	1.1%	0.4%	-0.9%	0.0%	-6.2%	-1.0%	2.9%	0.2%	-6.2%	0.1%	-2.5%	-0.4%	-1.1%	-2.0%	-0.4%	-4.8%	-2.0%	1.9%	1.0%	-0.9%	1.1%	-0.5%
	Brazil	3.5%	7.3%	6.6%	5.3%	6.2%	0.0%	5.2%	9.1%	6.4%	0.0%	6.3%	3.8%	5.9%	5.2%	4.2%	5.8%	1.4%	4.2%	8.1%	7.2%	5.3%	7.3%	5.7%
	Chile	-1.8%	2.1%	1.3%	0.0%	1.0%	-5.2%	0.0%	3.9%	1.2%	-5.2%	1.1%	-1.5%	0.6%	-0.1%	-1.0%	0.6%	-3.8%	-1.0%	2.9%	2.0%	0.1%	2.1%	0.5%
	Colombia	-5.6%	-1.8%	-2.5%	-3.8%	-2.9%	-9.1%	-3.9%	0.0%	-2.7%	-9.1%	-2.8%	-5.3%	-3.2%	-3.9%	-4.9%	-3.2%	-7.7%	-4.9%	-1.0%	-1.9%	-3.8%	-1.7%	-3.3%
	Mexico	-3.0%	0.9%	0.2%	-1.2%	-0.2%	-6.4%	-1.2%	2.7%	0.0%	-6.4%	-0.1%	-2.7%	-0.6%	-1.3%	-2.2%	-0.6%	-5.0%	-2.2%	1.7%	0.8%	-1.1%	0.9%	-0.7%
	Peru	3.5%	7.3%	6.6%	5.3%	6.2%	0.0%	5.2%	9.1%	6.4%	0.0%	6.3%	3.8%	5.9%	5.2%	4.2%	5.8%	1.4%	4.2%	8.1%	7.2%	5.3%	7.4%	5.8%
	Czech	-2.8%	1.0%	0.3%	-1.0%	-0.1%	-6.3%	-1.1%	2.8%	0.1%	-6.3%	0.0%	-2.5%	-0.4%	-1.1%	-2.1%	-0.5%	-4.9%	-2.1%	1.8%	0.9%	-1.0%	1.0%	-0.6%
	Hungary	-0.3%	3.6%	2.8%	1.5%	2.5%	-3.8%	1.5%	5.3%	2.7%	-3.8%	2.5%	0.0%	2.1%	1.4%	0.5%	2.1%	-2.4%	0.5%	4.4%	3.5%	1.6%	3.6%	2.0%
	Israel	-2.4%	1.5%	0.7%	-0.6%	0.4%	-5.9%	-0.6%	3.2%	0.6%	-5.9%	0.4%	-2.1%	0.0%	-0.7%	-1.6%	0.0%	-4.5%	-1.7%	2.2%	1.4%	-0.5%	1.5%	-0.1%
	Poland	-1.7%	2.2%	1.4%	0.1%	1.1%	-5.2%	0.1%	3.9%	1.3%	-5.2%	1.1%	-1.4%	0.7%	0.0%	-0.9%	0.7%	-3.8%	-0.9%	3.0%	2.1%	0.2%	2.2%	0.6%
	Russia	-0.7%	3.1%	2.4%	1.1%	2.0%	-4.2%	1.0%	4.9%	2.2%	-4.2%	2.1%	-0.5%	1.6%	0.9%	0.0%	1.6%	-2.8%	0.0%	3.9%	3.0%	1.1%	3.1%	1.5%
	South Africa	-2.4%	1.5%	0.7%	-0.6%	0.4%	-5.8%	-0.6%	3.2%	0.6%	-5.8%	0.5%	-2.1%	0.0%	-0.7%	-1.6%	0.0%	-4.4%	-1.6%	2.3%	1.4%	-0.5%	1.5%	-0.1%
	Turkey	2.1%	5.9%	5.2%	3.9%	4.8%	-1.4%	3.8%	7.7%	5.0%	-1.4%	4.9%	2.4%	4.5%	3.8%	2.8%	4.4%	0.0%	2.8%	6.7%	5.8%	3.9%	5.9%	4.4%
	China	-0.7%	3.1%	2.4%	1.1%	2.0%	-4.2%	1.0%	4.9%	2.2%	-4.2%	2.1%	-0.5%	1.7%	0.9%	0.0%	1.6%	-2.8%	0.0%	3.9%	3.0%	1.1%	3.1%	1.5%
	Indonesia	-4.6%	-0.8%	-1.5%	-2.8%	-1.9%	-8.1%	-2.9%	1.0%	-1.7%	-8.1%	-1.8%	-4.4%	-2.2%	-3.0%	-3.9%	-2.3%	-6.7%	-3.9%	0.0%	-0.9%	-2.8%	-0.8%	-2.4%
	Malaysia	-3.7%	0.1%	-0.6%	-1.9%	-1.0%	-7.2%	-2.0%	1.9%	-0.8%	-7.2%	-0.9%	-3.5%	-1.4%	-2.1%	-3.0%	-1.4%	-5.8%	-3.0%	0.9%	0.0%	-1.9%	0.1%	-1.5%
South Korea	-1.8%	2.0%	1.3%	0.0%	0.9%	-5.3%	-0.1%	3.8%	1.1%	-5.3%	1.0%	-1.6%	0.5%	-0.2%	-1.1%	0.5%	-3.9%	-1.1%	2.8%	1.9%	0.0%	2.0%	0.4%	
Taiwan	-3.9%	0.0%	-0.8%	-2.1%	-1.1%	-7.3%	-2.1%	1.7%	-0.9%	-7.4%	-1.0%	-3.6%	-1.5%	-2.2%	-3.1%	-1.5%	-5.9%	-3.1%	0.8%	-0.1%	-2.0%	0.0%	-1.6%	
Thailand	-2.3%	1.6%	0.8%	-0.5%	0.5%	-5.7%	-0.5%	3.3%	0.7%	-5.8%	0.6%	-2.0%	0.1%	-0.6%	-1.5%	0.1%	-4.4%	-1.5%	2.4%	1.5%	-0.4%	1.6%	0.0%	

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