

Shading Key:

 	52 week high (green = 1), low (red = 0) or shaded in-between
 	2 standard deviation move up (5%)
 	1 standard deviation move up (33%)
 	1 standard deviation move down (33%)
 	2 standard deviation move down (5%)

These estimates are based upon the last 256 daily moves of each instrument

	Closing prices 02-Dec-22	52 wk	Movement for the period				Q3 2022	Q2 2022	2021	2020	2019
			Day	Week	Month	YTD					
Interest Rates											
Central Bank Bills											
Change to today's price from closing prices of prior period											
C-bill auctions on Wednesday; reported Thursday/Friday	1.95%		0.00%	0.00%	0.04%	0.66%	0.65%	-0.06%	1.29%	1.33%	1.39%
60 days	2.45%		0.00%	0.01%	0.11%	0.46%	0.40%	-0.11%	1.99%	2.07%	2.30%
90 days	2.70%	0.00	0.00%	0.01%	0.07%	0.75%	0.43%	-0.20%	1.95%	2.04%	2.50%
182 days	4.55%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.55%	4.55%	4.55%
Treasury Bills											
Tbill auctions are irregular Wednesdays	2.60%	0.45	0.00%	0.00%	0.60%	-1.69%	0.06%	-1.12%	4.29%	4.41%	4.68%
273 days	2.94%	0.00	0.00%	0.09%	0.30%	-3.01%	0.54%	-1.78%	5.95%	6.04%	6.04%
364 days	4.30%		0.00%	0.00%	0.08%	-2.74%	1.44%	-2.50%	7.04%	7.20%	7.08%
Government Inscribed Stock											
GIS 2Y 2022-24	4.20%		0.00%	0.00%	0.00%	-4.30%	-0.85%	-3.28%	8.50%	8.04%	7.90%
GIS 4Y 2022-26	5.16%		0.00%	0.00%	0.19%	-4.68%	-0.66%	-4.10%	9.84%	9.84%	-
GIS 5Y 2022-27	5.24%		0.00%	0.00%	-0.20%	-4.46%	-1.12%	-3.32%	9.70%	9.86%	-
GIS 7Y 2022-29	5.56%		0.00%	0.00%	-0.37%	-4.24%	-0.79%	-3.10%	9.80%	10.02%	-
GIS 8Y 2022-30	5.44%		0.00%	0.00%	-0.74%	5.44%	-0.64%	0.00%	-	-	-
GIS 9Y 2022-31	5.44%		0.00%	0.00%	-0.91%	-4.46%	-0.59%	-2.91%	9.90%	11.82%	10.55%
GIS 10Y 2022-32	5.44%		0.00%	0.00%	-0.84%	-4.46%	-0.65%	-2.90%	9.90%	12.53%	-
Kina Facility Rate											
	3.00%	0.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.00%	3.00%	5.50%
Ten year Government Bond yields											
United States	3.49%	0.73	-0.02%	-0.19%	-0.67%	1.98%	0.82%	0.67%	1.51%	0.91%	1.92%
United Kingdom	3.15%	0.65	0.05%	0.03%	-0.38%	2.18%	1.86%	0.62%	0.97%	0.20%	0.82%
Australia	3.39%	0.70	-0.09%	-0.18%	-0.46%	1.72%	0.23%	0.82%	1.67%	0.97%	1.37%
New Zealand	3.99%	0.70	-0.10%	-0.13%	-0.56%	1.60%	0.44%	0.64%	2.39%	0.99%	1.65%
France	2.31%	0.78	0.05%	-0.13%	-0.52%	2.11%	0.80%	0.94%	0.20%	-0.34%	0.12%
Japan	0.26%	0.98	0.00%	0.00%	0.00%	0.18%	0.01%	0.01%	0.07%	0.02%	-0.01%
Australia	2.85%		0.00%	0.00%	0.00%	2.75%	1.50%	0.75%	0.10%	0.10%	0.75%
PNG CPI Index											
Latest 12 mth % change	5.50%								4.60%	3.10%	4.00%
Currencies											
Percentage changes											
PGK/USD	0.2840	0.00	0.00%	0.00%	0.00%	-0.35%	0.00%	0.00%	0.00%	-2.90%	-1.18%
PGK/AUD	0.4166	0.53	0.05%	-0.81%	-6.93%	6.06%	5.99%	8.56%	6.19%	-11.68%	-0.48%
PGK/GBP	0.2322	0.32	-1.11%	-1.11%	-8.33%	9.94%	9.20%	8.09%	1.00%	-6.57%	-4.40%
PGK/NZD	0.4447	0.37	-0.87%	-2.07%	-8.95%	6.54%	8.54%	11.85%	5.78%	-9.52%	-1.45%
PGK/JPY	38.380	0.58	-0.95%	-2.56%	-8.64%	16.98%	5.96%	11.97%	11.64%	-7.87%	-2.68%
USD/AUD	0.6819	0.42	-0.04%	0.83%	7.47%	-6.04%	-5.64%	-7.89%	-5.83%	9.94%	-0.71%
USD/JPY	135.130	0.59	-0.96%	-2.57%	-8.64%	17.38%	5.98%	11.96%	11.63%	-5.12%	-1.53%
USD/EUR	1.0528	0.50	0.79%	1.13%	7.62%	-6.91%	-6.04%	-6.38%	-8.00%	9.68%	-1.94%
USD/GBP	1.2233	0.52	1.12%	1.11%	9.09%	-9.34%	-8.40%	-7.49%	-0.98%	3.90%	3.37%
Equity Indices											
Papua New Guinea											
KSI Index	6,243.14	0.91	0.00%	-0.58%	-0.59%	6.51%	0.25%	1.51%	-3.09%	-3.42%	21.05%
KSI Home Index	15,593.11	0.85	0.00%	1.84%	1.84%	8.35%	-0.29%	10.08%	8.11%	1.50%	14.95%
Australia											
All Ordinaries	7,503.48	0.68	-0.67%	0.75%	5.84%	-3.54%	-1.01%	-13.39%	13.55%	0.71%	19.14%
S&P/ASX 100	6,121.53	0.79	-0.79%	0.49%	5.85%	-0.44%	-1.32%	-11.65%	13.28%	-2.06%	18.88%
S&P/ASX 20	4,109.20	0.79	-1.01%	0.03%	5.74%	1.26%	-1.83%	-11.32%	12.14%	-1.49%	15.34%
S&P/ASX 50	7,105.70	0.76	-0.88%	0.27%	5.99%	0.18%	-2.10%	-11.12%	12.37%	-4.86%	19.07%
S&P/ASX 50 Accumulation	88,459.60	0.94	-0.88%	0.28%	6.52%	5.09%	-0.12%	-10.55%	17.00%	-1.94%	24.43%
S&P/ASX Midcap 50	9,416.60	0.71	-0.23%	1.86%	5.02%	-3.57%	3.88%	-14.95%	18.46%	14.48%	17.68%
S&P/ASX Small Ordinaries	2,945.90	0.36	-0.01%	1.71%	5.82%	-16.53%	-1.45%	-20.79%	14.24%	6.62%	17.88%
S&P/ASX 200	7,301.46	0.75	-0.72%	0.58%	5.93%	-1.92%	-1.43%	-12.42%	13.02%	-1.45%	18.38%
S&P/ASX 200 Accumulation	88,219.58	0.93	-0.72%	0.59%	6.39%	2.44%	0.39%	-11.90%	17.23%	1.40%	23.40%
S&P/ASX 300	7,270.45	0.72	-0.70%	0.62%	5.85%	-2.46%	-1.34%	-12.73%	13.38%	-1.10%	18.77%
S&P/ASX 200 Energy	11,130.60	0.80	-2.45%	-3.15%	-5.86%	40.89%	2.29%	1.45%	-1.97%	-29.93%	18.24%
S&P/ASX 200 Materials	18,071.80	0.75	-0.55%	4.14%	15.72%	7.96%	-2.85%	-16.19%	6.84%	13.37%	22.09%
S&P/ASX 200 Industrials	6,552.10	0.80	-0.98%	0.01%	4.79%	-1.40%	-6.34%	-2.18%	11.24%	-14.10%	22.62%
S&P/ASX 200 Consumer Discretionary	2,934.90	0.34	-1.02%	-1.09%	3.59%	-16.85%	-1.96%	-15.08%	21.31%	8.63%	27.23%
S&P/ASX 200 Consumer Staples	12,810.70	0.39	0.08%	-0.74%	5.29%	-5.41%	-4.33%	-3.40%	7.13%	3.57%	17.98%
S&P/ASX 200 Healthcare	43,620.60	0.67	1.09%	1.07%	8.45%	-3.46%	2.64%	-1.93%	7.98%	2.97%	41.23%
S&P/ASX 200 Financials	6,564.30	0.73	-1.02%	-1.00%	1.18%	0.43%	0.66%	-14.87%	20.20%	-9.00%	7.39%
S&P/ASX 200 Information Technology	1,503.90	0.25	0.27%	2.23%	4.05%	-29.65%	2.53%	-27.19%	-2.79%	56.35%	31.81%
S&P/ASX 200 Telecommunication Services	1,472.00	0.43	0.82%	1.92%	4.21%	-9.69%	-0.87%	-10.12%	28.46%	0.91%	22.31%
S&P/ASX 200 Utilities	8,557.60	0.97	-0.44%	-0.77%	19.23%	27.86%	-13.62%	0.61%	4.56%	-21.52%	10.09%
S&P/ASX 200 A-REIT	1,389.40	0.31	-2.66%	-0.58%	5.66%	-20.81%	-7.53%	-18.85%	21.61%	-7.99%	14.01%
S&P/ASX 200 Financial-x-A-REIT	7,321.40	0.73	-1.02%	-1.00%	1.18%	0.43%	0.66%	-14.87%	20.20%	-8.99%	7.39%
North American											
DJIA	34,429.88	0.71	0.10%	0.24%	6.25%	-5.25%	-6.66%	-11.25%	18.73%	7.25%	22.34%
S&P 500	4,071.70	0.41	-0.12%	1.13%	7.99%	-14.57%	-5.28%	-16.45%	26.89%	16.26%	28.88%
NASDAQ	11,461.50	0.21	-0.18%	2.09%	9.42%	-26.74%	-4.11%	-22.44%	21.39%	43.64%	35.23%
Toronto S&P/TSX	20,485.66	0.59	-0.19%	0.50%	5.33%	-3.47%	-2.21%	-13.84%	21.74%	2.17%	19.13%
Europe											
FTSE	7,556.23	0.86	-0.03%	0.93%	3.02%	2.32%	-3.84%	-4.61%	14.30%	-14.34%	12.10%
DAX	14,529.39	0.59	0.27%	-0.08%	7.95%	-8.53%	-5.24%	-11.31%	15.79%	3.55%	25.48%
CAC 40	6,742.25	0.63	-0.17%	0.44%	5.08%	-5.74%	-2.71%	-11.07%	28.85%	-7.14%	26.37%
Asia											
Nikkei	27,777.90	0.66	-1.59%	-1.79%	2.13%	-3.52%	-1.73%	-5.13%	4.91%	16.01%	18.20%
Hang Seng	18,675.35	0.39	-0.33%	6.27%	15.56%	-20.18%	-21.21%	-0.62%	-14.08%	-3.40%	9.07%
Shanghai	3,156.14	0.34	-0.29%	1.76%	2.78%	-13.29%	-11.01%	4.50%	4.80%	13.87%	22.30%
Sensex	62,868.50	0.97	-0.66%	0.92%	3.15%	7.92%	8.31%	-9.48%	21.99%	15.75%	14.38%

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Shading Key:

	52 week high (green = 1), low (red = 0) or shaded in-between
	2 standard deviation move up (5%)
	1 standard deviation move up (33%)
	1 standard deviation move down (33%)
	2 standard deviation move down (5%)

These estimates are based upon the last 256 daily moves of each instrument

05-Dec-22
Reporting closing prices for prior day

			52					Movement for the period					
			02-Dec-22	wk	Day	Week	Month	YTD	Q3 2022	Q2 2022	2021	2020	2019
Indices													
MSCI World USD Index			2,733.03	0.41	-0.29%	1.09%	9.01%	-15.43%	-6.58%	-16.60%	20.14%	14.06%	25.19%
MSCI World Net TR USD Index			8,378.63	0.44	-0.29%	1.12%	9.16%	-14.12%	-7.21%	-15.26%	21.82%	15.90%	27.67%
MSCI ACWI-ex-Australia TR AUD Index			13,921.69	0.52	-0.97%	0.47%	3.36%	-8.33%	-0.72%	-7.44%	29.58%	5.73%	27.97%
MSCI ACWI Net TR USD Index			332.03	0.43	-0.31%	1.37%	9.28%	-14.65%	-7.85%	-14.72%	18.54%	16.25%	26.60%
MSCI ACWI Minimum Volatility USD			2,166.58	0.49	-0.22%	0.85%	7.27%	-9.99%	-6.69%	-9.77%	11.95%	0.56%	18.50%
MSCI EM Asia Net TR USD Index			574.68	0.37	-0.47%	4.38%	13.81%	-19.99%	-14.96%	-8.32%	-5.08%	28.38%	19.24%
MSCI EM Net TR USD Index			493.80	0.34	-0.45%	3.51%	10.22%	-18.82%	-12.65%	-10.36%	-2.54%	18.31%	18.42%
VIX Volatility S&P500			19.06	0.12	-3.93%	-7.02%	-22.36%	10.69%	10.14%	39.64%	-24.31%	65.09%	-45.79%
Commodities													
Light Crude WTI Futures	US\$/bbl		79.98	0.20	-1.53%	4.85%	-13.64%	5.74%	-24.84%	5.46%	55.89%	-20.54%	34.46%
Brent Crude	US\$/bbl		85.57	0.24	-1.51%	2.32%	-13.19%	9.45%	-23.39%	6.39%	50.93%	-21.52%	22.68%
Gold	US\$/oz		1,809.60	0.43	-0.31%	2.31%	7.93%	-1.21%	-7.49%	-7.51%	-3.34%	24.42%	18.87%
Silver	US\$/oz		23.25	0.61	1.79%	7.59%	11.86%	-0.70%	-6.45%	-19.02%	-11.35%	47.38%	15.32%
Copper	US\$/lb		3.85	0.36	0.86%	6.06%	4.45%	-13.88%	-8.02%	-21.91%	27.05%	25.81%	6.31%
Iron Ore	US\$/mt		96.78	0.26	0.77%	4.89%	15.64%	-14.09%	-18.16%	-16.56%	-27.05%	81.97%	20.45%
Malaysian Palm Oil* RM/tn			3,905	0.14	-2.28%	-3.82%	-6.62%	-24.31%	-34.61%	-20.39%	32.59%	27.95%	51.75%
LNG *Jap/Korea	US\$/mmBtu		31.76	0.24	-5.98%	6.01%	9.80%	4.15%	0.17%	9.10%	113.25%	169.81%	-41.08%
ICCO Cocoa	US\$/mt		2,489	0.49	0.69%	2.13%	2.26%	-1.23%	2.75%	-13.55%	-3.19%	2.48%	5.13%
ICO Coffee	US cents/lb		160	0.08	-1.96%	-2.08%	-8.88%	-29.17%	-5.16%	3.18%	76.30%	-1.12%	27.34%
Equities													
Percentage changes													
Domestic													
	PGK	Arbitrage	PNGX										
Bank South Pacific		11.62	12.41	0.59	0.00%	0.00%	0.00%	1.31%	0.08%	2.90%	2.08%	1.87%	14.81%
Credit Corporation			1.90	1.00	0.00%	2.70%	2.70%	13.10%	0.00%	15.63%	-1.18%	6.25%	18.52%
City Pharmacy			0.95	0.06	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	90.00%	-38.27%	24.62%
Kina Asset Management Limited			0.95		0.00%	0.00%	0.00%	-4.04%	-5.00%	0.00%	10.00%	-5.26%	0.00%
Kina Securities Limited	2.08		2.88	0.36	0.00%	0.00%	-4.00%	-2.37%	-3.33%	0.00%	-1.67%	-10.98%	27.17%
Steamship Trading Company	25.20		35.46		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Santos Limited	17.16		19.10	1.00	0.00%	0.00%	0.00%		0.53%	2.70%			
Australia													
A2 Milk Company Limited			6.33	1.00	0.96%	1.44%	16.79%	15.93%	23.01%	-15.90%	-52.31%	-19.93%	38.57%
ANZ Banking Group Limited			24.65	0.46	-1.20%	-0.68%	-3.33%	-10.40%	3.50%	-20.18%	21.19%	-7.84%	0.70%
BSP Financial Group			4.84	0.42	0.41%	-1.22%	0.21%	13.35%	1.01%	3.13%	-17.88%		
BHP Billiton Limited			45.76	0.57	-1.55%	3.53%	18.67%	10.27%	-6.62%	-20.29%	-2.19%	9.02%	13.70%
Boral Limited			3.06	0.14	0.99%	0.99%	7.37%	-49.84%	3.09%	-25.14%	23.23%	10.49%	-9.31%
Bougainville Copper Limited			0.28	0.03	-6.67%	-6.67%	0.00%	-8.20%	-15.15%	-56.00%	5.17%	-10.77%	103.13%
Bank of Queensland			7.16	0.31	-0.97%	-5.29%	-1.78%	-11.50%	-2.40%	-23.16%	4.52%	6.76%	-25.26%
Brambles Limited			12.03	0.71	-1.07%	1.01%	5.53%	13.17%	6.54%	8.07%	0.28%	-9.56%	15.47%
Commonwealth Bank of Australia			106.95	0.90	-1.36%	-2.06%	3.78%	5.89%	0.35%	-14.55%	23.01%	2.77%	10.37%
CSL			301.89	0.55	1.08%	0.72%	9.54%	3.84%	5.93%	0.34%	2.66%	2.69%	48.93%
Fortescue Mining			19.68	0.61	-1.40%	3.91%	24.01%	2.45%	-4.05%	-15.15%	-18.01%	119.18%	155.13%
Horizon Oil Ltd			0.14	0.65	3.85%	3.85%	3.85%	46.74%	9.26%	8.00%	48.39%	-48.33%	20.00%
Kina Securities Ltd			0.87	0.48	0.58%	-0.57%	-1.14%	1.17%	5.59%	-5.85%	-5.00%	-39.60%	56.84%
Kina Petroleum Ltd			0.06		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-1.72%
Macquarie Group Ltd			180.24	0.47	-1.02%	1.29%	5.79%	-12.25%	-7.15%	-19.07%	48.32%	0.46%	26.88%
Mirvac Group			2.24	0.32	-2.61%	1.82%	8.74%	-23.02%	-1.52%	-20.68%	10.23%	-16.98%	41.96%
National Australia Bank			31.38	0.71	-0.95%	-0.35%	-2.30%	8.81%	5.18%	-15.33%	27.61%	-8.24%	2.33%
Newcrest Mining Limited			21.09	0.41	2.08%	5.45%	21.21%	-13.85%	-19.00%	-21.88%	-5.04%	-14.78%	38.76%
Origin Energy Ltd			7.90	0.98	-0.63%	-0.63%	37.63%	50.76%	-9.77%	-8.03%	10.08%	-43.67%	30.60%
Pilbara Minerals Ltd			4.86	0.82	2.10%	8.97%	-5.63%	51.88%	99.13%	-28.44%	267.82%	210.71%	-55.20%
Qbe Insurance Group Ltd			12.92	0.97	-0.23%	-0.77%	2.38%	13.83%	-5.10%	5.65%	33.06%	-33.77%	27.52%
Rio Tinto Limited			111.94	0.60	-1.14%	5.95%	20.63%	11.82%	-9.07%	-13.78%	-12.05%	13.38%	27.95%
ResMed Inc			34.10	0.65	1.64%	0.47%	1.91%	-4.70%	10.23%	-5.34%	31.40%	24.34%	37.56%
Santos Limited			7.15	0.39	-3.77%	-4.03%	-10.63%	13.31%	-4.45%	-4.13%	0.64%	-23.35%	49.27%
Steamship Trading Company			10.50	0.38	0.00%	0.00%	0.00%	5.00%	-15.83%	18.93%	1.52%	-21.20%	-33.16%
Suncorp Metway Limited			11.56	0.70	-1.87%	-3.99%	-1.45%	4.43%	-8.95%	-1.26%	13.66%	-24.85%	2.61%
Sydney Airport			8.72	1.00	0.00%	0.00%	0.00%	0.46%	0.00%	0.00%	35.41%	-25.98%	28.68%
Transurban Group			14.15	0.77	-0.98%	-0.91%	4.81%	2.39%	-14.19%	6.13%	1.17%	-8.38%	27.98%
Telstra Corporation Limited			4.00	0.52	0.50%	0.00%	2.56%	-4.31%	0.00%	-2.78%	40.27%	-15.82%	24.21%
Treasury Wine Estates Limited			14.01	1.00	1.37%	3.32%	10.49%	13.17%	10.75%	-1.99%	31.70%	-42.12%	9.73%
Westpac Banking Corporation			23.76	0.84	-0.67%	-0.96%	-1.57%	11.29%	5.85%	-19.55%	10.22%	-20.06%	-3.23%
Worley Limited			14.47	0.81	-2.10%	-0.96%	-3.66%	36.12%	-10.60%	10.30%	-7.48%	-24.95%	34.06%
Woolworths Limited			34.45	0.27	-0.43%	-1.80%	5.80%	-9.37%	-4.63%	-4.46%	-3.31%	8.71%	22.91%
International													
iShare MSCI All Asia ex Japan	USD \$		66.88	0.38	0.36%	5.92%	12.82%	-19.14%	-15.24%	-7.81%	-7.74%	22.19%	15.56%
Blackrock Int Equity Fund*	AUD \$		19.66	0.36	-0.96%	0.70%	3.38%	-12.43%	-4.75%	-8.50%	24.76%	-0.61%	23.52%
Blackrock Australian Equity Fund*	AUD \$		1.81	0.60	0.94%	1.58%	7.03%	-6.86%	-6.55%	-10.96%	11.82%	-2.28%	19.10%
Vanguard International Share*	AUD \$		2.72	0.40	-0.96%	0.30%	3.37%	-12.10%	-2.83%	-8.11%	23.54%	-0.10%	22.72%
Vanguard FTSE World exUS	USD \$		52.21	0.44	0.08%	2.33%	10.26%	-14.80%	-11.21%	-13.25%	5.00%	8.58%	17.92%
Vanguard FTSE Europe	USD \$		57.56	0.51	0.21%	1.91%	12.33%	-15.65%	-12.63%	-15.19%	13.28%	2.80%	20.53%
iShares Core MSCI Europe	USD \$		49.15	0.51	0.22%	1.80%	12.29%	-15.49%	-12.06%	-15.81%	13.42%	2.83%	20.66%
iShares Asia 50	USD \$		58.54	0.38	0.98%	7.77%	18.38%	-23.54%	-20.43%	-8.58%	-12.17%	32.08%	19.35%
iShares MSCI Japan	USD \$		55.93	0.36	-0.44%	-0.05%	9.95%	-16.47%	-7.53%	-14.25%	-0.89%	14.04%	16.87%
Acadian Global Managed Volatility Equity Fund			1.60	0.49	-0.76%	0.92%	1.74%	-6.97%	-6.92%	-2.24%	10.44%	-11.46%	8.12%
Lazard Global Managed Volatility Fund - Australia*			1.04	0.26	-1.07%	0.86%	1.31%	-12.97%	-16.44%	-0.19%	19.66%	-22.67%	14.95%
Robeco Emerging Conservative Equity Fund - Australia			1.34	0.25	1.21%	3.17%	1.89%	-8.86%	-5.34%	-2.96%	13.49%	-15.41%	10.42%

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