

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 14-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											
28 days	1.95%		0.00%	0.00%	0.00%	0.66%	0.65%	-0.06%	1.29%	1.33%	1.39%
60 days	2.45%		0.00%	0.00%	0.02%	0.46%	0.40%	-0.11%	1.99%	2.07%	2.30%
90 days	2.70%	0.00	0.00%	0.00%	0.01%	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											
182 days	2.69%	0.48	0.01%	0.01%	0.69%	-1.60%	0.06%	-1.12%	4.29%	4.41%	4.68%
273 days	2.95%	0.00	0.00%	0.00%	0.32%	-3.00%	0.54%	-1.78%	5.95%	6.04%	6.04%
364 days	4.27%		-0.03%	-0.03%	0.01%	-2.77%	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											
	3.25%	1.00	0.00%	0.00%	0.25%	0.25%	0.00%	0.00%	3.00%	3.00%	5.50%
Ten year Government Bond yields											
United States	3.48%	0.73	-0.02%	0.06%	-0.21%	1.97%	0.82%	0.67%	1.51%	0.91%	1.92%
United Kingdom	3.32%	0.68	0.01%	0.27%	0.17%	2.34%	1.86%	0.62%	0.97%	0.20%	0.82%
Australia	3.36%	0.69	-0.04%	0.01%	-0.36%	1.69%	0.23%	0.82%	1.67%	0.97%	1.37%
New Zealand	4.14%	0.76	0.00%	0.08%	-0.06%	1.75%	0.44%	0.64%	2.39%	0.99%	1.65%
France	2.43%	0.82	0.03%	0.19%	-0.05%	2.23%	0.80%	0.94%	0.20%	-0.34%	0.12%
Japan	0.25%	0.97	0.00%	0.00%	0.00%	0.18%	0.01%	0.01%	0.07%	0.02%	-0.01%
Australia	3.10%		0.00%	0.00%	0.25%	3.00%	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	0.4149	0.51	-1.19%	-1.73%	-1.10%	5.63%	5.99%	8.56%	6.19%	-11.68%	-0.48%
PGK/GBP	0.2299	0.29	-0.56%	-1.42%	-3.85%	8.85%	9.20%	8.09%	1.00%	-6.57%	-4.40%
PGK/NZD	0.4407	0.33	-0.79%	-2.00%	-4.36%	5.58%	8.54%	11.85%	5.78%	-9.52%	-1.45%
PGK/JPY	38.460	0.59	-1.56%	-1.18%	-3.07%	17.22%	5.96%	11.97%	11.64%	-7.87%	-2.68%
USD/AUD	0.6846	0.44	1.21%	1.77%	1.12%	-5.66%	-5.64%	-7.89%	-5.83%	9.94%	-0.71%
USD/JPY	135.420	0.60	-1.56%	-1.17%	-3.07%	17.63%	5.98%	11.96%	11.63%	-5.12%	-1.53%
USD/EUR	1.0631	0.56	1.25%	1.38%	2.46%	-6.00%	-6.04%	-6.38%	-8.00%	9.68%	-1.94%
USD/GBP	1.2357	0.56	0.59%	1.47%	4.02%	-8.43%	-8.40%	-7.49%	-0.98%	3.90%	3.37%
Equity Indices											
Papua New Guinea											
Percentage changes											
KSI Index	6,242.72	0.91	0.00%	0.00%	-0.59%	6.50%	0.25%	1.51%	-3.09%	-3.42%	21.05%
KSI Home Index	15,402.10	0.76	-1.17%	-1.17%	0.59%	7.02%	-0.29%	10.08%	8.11%	1.50%	14.95%
Australia											
All Ordinaries	7,438.74	0.63	0.67%	0.21%	1.52%	-4.38%	-1.01%	-13.39%	13.55%	0.71%	19.14%
S&P/ASX 100	6,084.33	0.75	0.61%	0.26%	1.84%	-1.04%	-1.32%	-11.65%	13.28%	-2.06%	18.88%
S&P/ASX 20	4,095.90	0.77	0.51%	0.24%	1.64%	0.93%	-1.83%	-11.32%	12.14%	-1.49%	15.34%
S&P/ASX 50	7,076.40	0.73	0.56%	0.21%	1.98%	-0.23%	-2.10%	-11.12%	12.37%	-4.86%	19.07%
S&P/ASX 50 Accumulation	88,095.00	0.91	0.56%	0.21%	2.13%	4.66%	-0.12%	-10.55%	17.00%	-1.94%	24.43%
S&P/ASX Midcap 50	9,246.20	0.63	0.92%	0.58%	1.00%	-5.32%	3.88%	-14.95%	18.46%	14.48%	17.68%
S&P/ASX Small Ordinaries	2,887.90	0.30	1.23%	0.74%	0.43%	-18.18%	-1.45%	-20.79%	14.24%	6.62%	17.88%
S&P/ASX 200	7,251.30	0.71	0.67%	0.30%	1.81%	-2.60%	-1.43%	-12.42%	13.02%	-1.45%	18.38%
S&P/ASX 200 Accumulation	87,628.46	0.89	0.67%	0.30%	1.97%	1.75%	0.39%	-11.90%	17.23%	1.40%	23.40%
S&P/ASX 300	7,215.63	0.68	0.68%	0.31%	1.69%	-3.20%	-1.34%	-12.73%	13.38%	-1.10%	18.77%
S&P/ASX 200 Energy	11,066.40	0.79	1.35%	-0.17%	-5.22%	40.07%	2.29%	1.45%	-1.97%	-29.93%	18.24%
S&P/ASX 200 Materials	18,061.20	0.75	1.00%	-0.91%	3.35%	7.89%	-2.85%	-16.19%	6.84%	13.37%	22.09%
S&P/ASX 200 Industrials	6,520.00	0.76	0.57%	1.07%	3.73%	-1.89%	-6.34%	-2.18%	11.24%	-14.10%	22.62%
S&P/ASX 200 Consumer Discretionary	2,895.50	0.31	0.14%	0.86%	0.22%	-17.97%	-1.96%	-15.08%	21.31%	8.63%	27.23%
S&P/ASX 200 Consumer Staples	12,696.70	0.33	0.17%	-0.05%	1.77%	-6.26%	-4.33%	-3.40%	7.13%	3.57%	17.98%
S&P/ASX 200 Healthcare	42,951.70	0.64	0.71%	0.02%	2.70%	-4.94%	2.64%	-1.93%	7.98%	2.97%	41.23%
S&P/ASX 200 Financials	6,503.40	0.68	0.10%	0.57%	1.07%	-0.50%	0.66%	-14.87%	20.20%	-9.00%	7.39%
S&P/ASX 200 Information Technology	1,483.60	0.24	1.73%	4.22%	2.21%	-30.60%	2.53%	-27.19%	-2.79%	56.35%	31.81%
S&P/ASX 200 Telecommunication Services	1,463.50	0.41	0.84%	0.80%	4.39%	-10.21%	-0.87%	-10.12%	28.46%	0.91%	22.31%
S&P/ASX 200 Utilities	8,282.50	0.84	2.09%	-1.33%	2.74%	23.75%	-13.62%	0.61%	4.56%	-21.52%	10.09%
S&P/ASX 200 A-REIT	1,399.10	0.33	1.29%	2.43%	3.58%	-20.26%	-7.53%	-18.85%	21.61%	-7.99%	14.01%
S&P/ASX 200 Financial-x-A-REIT	7,253.50	0.68	0.10%	0.57%	1.07%	-0.50%	0.66%	-14.87%	20.20%	-8.99%	7.39%
North American											
DJIA	33,966.35	0.65	-0.42%	1.10%	1.23%	-6.53%	-6.66%	-11.25%	18.73%	7.25%	22.34%
S&P 500	3,995.32	0.34	-0.61%	1.56%	0.92%	-16.17%	-5.28%	-16.45%	26.89%	16.26%	28.88%
NASDAQ	11,170.89	0.15	-0.76%	1.94%	-0.11%	-28.60%	-4.11%	-22.44%	21.39%	43.64%	35.23%
Toronto S&P/TSX	19,891.65	0.43	-0.66%	-0.41%	-0.33%	-6.27%	-2.21%	-13.84%	21.74%	2.17%	19.13%
Europe											
FTSE	7,495.93	0.79	-0.09%	0.09%	1.97%	1.51%	-3.84%	-4.61%	14.30%	-14.34%	12.10%
DAX	14,460.20	0.58	-0.26%	1.40%	1.59%	-8.97%	-5.24%	-11.31%	15.79%	3.55%	25.48%
CAC 40	6,730.79	0.62	-0.21%	1.05%	1.87%	-5.90%	-2.71%	-11.07%	28.85%	-7.14%	26.37%
Asia											
Nikkei	28,156.21	0.75	0.72%	1.70%	0.46%	-2.21%	-1.73%	-5.13%	4.91%	16.01%	18.20%
Hang Seng	19,673.45	0.49	0.39%	4.56%	7.76%	-15.92%	-21.21%	-0.62%	-14.08%	-3.40%	9.07%
Shanghai	3,176.53	0.38	0.01%	-0.72%	1.81%	-12.73%	-11.01%	4.50%	4.80%	13.87%	22.30%
Sensex	62,677.91	0.95	0.23%	0.43%	1.12%	7.59%	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

		14-Dec-22	52 wk	Movement for the period				Q3 2022	Q2 2022	2021	2020	2019	
				Day	Week	Month	YTD						
Indices													
MSCI World USD Index		2,715.49	0.40	0.00%	2.01%	1.39%	-15.97%	-6.58%	-16.60%	20.14%	14.06%	25.19%	
MSCI World Net TR USD Index		8,296.39	0.41	0.82%	1.65%	1.14%	-14.96%	-7.21%	-15.26%	21.82%	15.90%	27.67%	
MSCI ACWI-ex-Australia TR AUD Index		13,655.45	0.44	-0.89%	-0.60%	-0.07%	-10.09%	-0.72%	-7.44%	29.58%	5.73%	27.97%	
MSCI ACWI Net TR USD Index		329.90	0.41	1.08%	1.71%	1.41%	-15.20%	-7.85%	-14.72%	18.54%	16.25%	26.60%	
MSCI ACWI Minimum Volatility USD		2,158.72	0.47	0.15%	1.04%	2.75%	-10.31%	-6.69%	-9.77%	11.95%	0.56%	18.50%	
MSCI EM Asia Net TR USD Index		581.25	0.40	1.25%	0.86%	3.32%	-19.07%	-14.96%	-8.32%	-5.08%	28.38%	19.24%	
MSCI EM Net TR USD Index		493.96	0.34	1.06%	0.11%	1.55%	-18.79%	-12.65%	-10.36%	-2.54%	18.31%	18.42%	
VIX Volatility S&P500		21.14	0.23	-6.25%	-6.79%	-12.32%	22.76%	10.14%	39.64%	-24.31%	65.09%	-45.79%	
Commodities													
Light Crude WTI Futures		77.28	0.16	2.51%	7.32%	-9.71%	2.17%	-24.84%	5.46%	55.89%	-20.54%	34.46%	
Brent Crude		82.89	0.20	2.74%	7.12%	-10.56%	6.02%	-23.39%	6.39%	50.93%	-21.52%	22.68%	
Gold		1,818.70	0.46	-0.37%	1.15%	2.42%	-0.72%	-7.49%	-7.51%	-3.34%	24.42%	18.87%	
Silver		24.14	0.70	0.61%	5.30%	11.09%	3.08%	-6.45%	-19.02%	-11.35%	47.38%	15.32%	
Copper		3.88	0.37	0.94%	0.45%	2.77%	-13.26%	-8.02%	-21.91%	27.05%	25.81%	6.31%	
Iron Ore		104.74	0.38	-1.63%	2.93%	13.58%	-7.02%	-18.16%	-16.56%	-27.05%	81.97%	20.45%	
Malaysian Palm Oil* RM/tn		3,885	0.13	1.54%	-0.66%	-0.56%	-24.69%	-34.61%	-20.39%	32.59%	27.95%	51.75%	
LNG *Jap/Korea		33.39	0.27	0.12%	0.10%	28.97%	9.48%	0.17%	9.10%	113.25%	169.81%	-41.08%	
ICCO Cocoa		2,474	0.47	-0.68%	1.31%	-1.16%	-1.83%	2.75%	-13.55%	-3.19%	2.48%	5.13%	
ICO Coffee		168	0.16	0.69%	6.72%	8.27%	-25.56%	-5.16%	3.18%	76.30%	-1.12%	27.34%	
Equities													
Domestic													
				Percentage changes									
PGK													
Arbitrage													
PNGX													
Bank South Pacific		11.79	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%	0.00%	2.70%	13.10%	0.00%	15.63%	-1.18%	6.25%	18.52%
City Pharmacy			0.90	0.00	-5.26%	-5.26%	-5.26%	-5.26%	0.00%	0.00%	90.00%	-38.27%	24.62%
Kina Asset Management Limited			0.95	0.00	0.00%	0.00%	0.00%	-4.04%	-5.00%	0.00%	10.00%	-5.26%	0.00%
Kina Securities Limited		1.93	2.89	0.31	1.40%	1.76%	-0.34%	-2.03%	-3.33%	0.00%	-1.67%	-10.98%	27.17%
Steamship Trading Company		25.31	35.46	0.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Santos Limited		17.26	19.10	1.00	0.00%	0.00%	0.00%	0.53%	2.70%				
Australia													
A2 Milk Company Limited		6.93	1.00	4.21%	8.96%	15.31%	26.92%	23.01%	-15.90%	-52.31%	-19.93%	38.57%	
ANZ Banking Group Limited		24.01	0.38	-0.37%	-0.08%	-0.62%	-12.72%	3.50%	-20.18%	21.19%	-7.84%	0.70%	
BSP Financial Group		4.89	0.44	0.00%	0.51%	-0.20%	14.52%	1.01%	3.13%	-17.88%			
BHP Billiton Limited		46.31	0.60	0.50%	-0.62%	4.18%	11.59%	-6.62%	-20.29%	-2.19%	9.02%	13.70%	
Boral Limited		3.06	0.14	0.66%	0.00%	3.73%	-49.84%	3.09%	-25.14%	23.23%	10.49%	-9.31%	
Bougainville Copper Limited		0.28	0.03	-6.67%	1.82%	-9.68%	-8.20%	-15.15%	-56.00%	5.17%	-10.77%	103.13%	
Bank of Queensland		7.00	0.24	0.00%	-1.41%	-3.31%	-13.47%	-2.40%	-23.16%	4.52%	6.76%	-25.26%	
Brambles Limited		12.24	0.77	0.82%	2.34%	8.32%	15.15%	6.54%	8.07%	0.28%	-9.56%	15.47%	
Commonwealth Bank of Australia		106.92	0.90	0.45%	1.30%	2.24%	5.86%	0.35%	-14.55%	23.01%	2.77%	10.37%	
CSL		299.31	0.95	0.76%	0.04%	3.42%	2.95%	5.93%	0.34%	2.66%	2.69%	48.93%	
Fortescue Mining		20.46	0.71	1.14%	-3.35%	3.07%	6.51%	-4.05%	-15.15%	-18.01%	119.18%	155.13%	
Horizon Oil Ltd		0.13	0.54	0.00%	-1.92%	-7.27%	38.59%	9.26%	8.00%	48.39%	-48.33%	20.00%	
Kina Securities Ltd		0.80	0.18	0.00%	0.00%	-7.51%	-6.43%	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%	0.00%	-1.72%	
Macquarie Group Ltd		174.21	0.37	0.78%	0.33%	-2.10%	-15.19%	-7.15%	-19.07%	48.32%	0.46%	26.88%	
Mirvac Group		2.22	0.31	0.45%	0.91%	4.72%	-23.71%	-1.52%	-20.68%	10.23%	-16.98%	41.96%	
National Australia Bank		30.71	0.62	-0.26%	0.20%	1.32%	6.48%	5.18%	-15.33%	27.61%	-8.24%	2.33%	
Newcrest Mining Limited		21.07	0.41	2.18%	1.30%	10.26%	-13.93%	-19.00%	-21.88%	-5.04%	-14.78%	38.76%	
Origin Energy Ltd		7.49	0.83	2.88%	-3.48%	1.22%	42.94%	-9.77%	-8.03%	10.08%	-43.67%	30.60%	
Pilbara Minerals Ltd		4.55	0.73	0.66%	-3.40%	-7.52%	42.19%	99.13%	-28.44%	267.82%	210.71%	-55.20%	
Qbe Insurance Group Ltd		13.12	0.96	0.08%	-0.91%	9.97%	15.59%	-5.10%	5.65%	33.06%	-33.77%	27.52%	
Rio Tinto Limited		114.67	0.67	0.50%	-0.72%	6.11%	14.54%	-9.07%	-13.78%	-12.05%	13.38%	27.95%	
ResMed Inc		32.93	0.62	1.32%	0.30%	-0.33%	-7.97%	10.23%	-5.34%	31.40%	24.34%	37.56%	
Santos Limited		7.16	0.40	0.85%	-0.14%	-3.63%	13.47%	-4.45%	-4.13%	0.64%	-23.35%	49.27%	
Steamship Trading Company		10.50	0.34	0.00%	0.00%	0.00%	5.00%	-15.83%	18.93%	1.52%	-21.20%	-33.16%	
Suncorp Metway Limited		11.89	0.84	-0.25%	0.42%	1.02%	7.41%	-8.65%	-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		14.06	0.73	0.36%	2.11%	3.31%	1.74%	-14.19%	6.13%	1.17%	-8.38%	27.98%	
Telstra Corporation Limited		4.08	0.67	1.24%	1.75%	6.25%	-2.39%	0.00%	-2.78%	40.27%	-15.82%	24.21%	
Treasury Wine Estates Limited		13.60	0.87	-0.15%	-0.80%	2.26%	9.85%	10.75%	-1.99%	31.70%	-42.12%	9.73%	
Westpac Banking Corporation		23.57	0.80	-0.38%	0.00%	-1.13%	10.40%	5.85%	-19.55%	10.22%	-20.06%	-3.23%	
Worley Limited		14.67	0.84	1.52%	2.37%	-1.94%	38.01%	-10.60%	10.30%	-7.48%	-24.95%	34.06%	
Woolworths Limited		34.29	0.30	0.62%	0.35%	1.69%	-9.79%	-4.63%	-4.46%	-3.31%	8.71%	22.91%	
International													
iShare MSCI All Asia ex Japan		USD \$	66.45	0.37	0.05%	0.93%	3.81%	-19.66%	-15.24%	-7.81%	-7.74%	22.19%	15.56%
Blackrock Int Equity Fund*		AUD \$	19.28	0.28	-0.89%	-0.60%	-0.05%	-14.09%	-4.75%	-8.50%	24.76%	-0.61%	23.52%
Blackrock Australian Equity Fund*		AUD \$	1.77	0.49	0.32%	0.88%	0.88%	-8.81%	-6.55%	-10.96%	11.82%	-2.28%	19.10%
Vanguard International Share*		AUD \$	2.67	0.32	-0.89%	-0.60%	-0.06%	-13.78%	-2.83%	-8.11%	23.54%	-0.10%	22.72%
Vanguard FTSE World exUS		USD \$	52.07	0.43	-0.12%	1.72%	3.62%	-15.03%	-11.21%	-13.25%	5.00%	8.58%	17.92%
Vanguard FTSE Europe		USD \$	57.82	0.52	0.10%	2.39%	5.18%	-15.27%	-12.63%	-15.19%	13.28%	2.80%	20.53%
iShares Core MSCI Europe		USD \$	49.08	0.51	0.08%	1.68%	4.49%	-15.61%	-12.06%	-15.81%	13.42%	2.83%	20.66%
iShares Asia 50		USD \$	58.30	0.37	-0.02%	1.57%	4.33%	-23.85%	-20.43%	-8.58%	-12.17%	32.08%	19.35%
iShares MSCI Japan		USD \$	55.87	0.38	-0.09%	2.05%	2.78%	-16.56%	-7.53%	-14.25%	-0.89%	14.04%	16.87%
Acadian Global Managed Volatility Equity Fund		1.57	0.37	-1.42%	-1.59%	1.57%	-8.57%	-6.92%	-2.24%	10.44%	-11.46%	8.12%	
Lazard Global Managed Volatility Fund - Australia*		1.02	0.20	-1.61%	-1.65%	2.50%	-14.26%	-16.44%	-0.19%	19.66%	-22.67%	14.95%	
Robeco Emerging Conservative Equity Fund - Australia		1.31	0.15	0.14%	-0.97%	0.27%	-10.78%	-5.34%	-2.96%	13.49%	-15.41%	10.42%	

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