

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 19-Dec-22	52 wk	Movement for the period				YTD	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%	0.03%	0.46%	0.40%	-0.11%	1.99%	2.07%	2.30%	
90 days	2.70%	0.00	0.00%	0.00%	0.00%	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%	0.49	0.00%	0.01%	0.12%	-1.60%	0.06%	-1.12%	4.29%	4.41%	4.68%	
273 days	2.95%	0.00	0.00%	0.00%	0.15%	-3.00%	0.54%	-1.78%	5.95%	6.04%	6.04%	
364 days	4.27%		0.00%	-0.03%	-0.03%	-2.77%	1.44%	-2.50%	7.04%	7.20%	7.08%	
Government Inscribed Stock												
For interest rates, rate at end of each respective year reported.												
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%	0.00%	-4.68%	-0.66%	-4.10%	9.84%	9.84%	-	
GIS 5Y 2022-27	5.24%		0.00%	0.00%	0.00%	-4.46%	-1.12%	-3.32%	9.70%	9.86%	-	
GIS 7Y 2022-29	5.56%		0.00%	0.00%	0.00%	-4.24%	-0.79%	-3.10%	9.80%	10.02%	-	
GIS 8Y 2022-30	5.44%		0.00%	0.00%	0.00%	5.44%	-0.64%	0.00%	-	-	-	
GIS 9Y 2022-31	5.44%		0.00%	0.00%	0.00%	-4.46%	-0.59%	-2.91%	9.90%	11.82%	10.55%	
GIS 10Y 2022-32	5.44%		0.00%	0.00%	0.00%	-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	3.58%	0.76	0.10%	-0.03%	-0.24%	2.07%	0.82%	0.67%	1.51%	0.91%	1.92%	
United Kingdom	3.50%	0.72	0.17%	0.30%	0.32%	2.53%	1.86%	0.62%	0.97%	0.20%	0.82%	
Australia	3.53%	0.75	0.08%	0.15%	-0.05%	1.86%	0.23%	0.82%	1.67%	0.97%	1.37%	
New Zealand	4.25%	0.81	-0.02%	0.15%	0.05%	1.86%	0.44%	0.64%	2.39%	0.99%	1.65%	
France	2.72%	0.91	0.04%	0.32%	0.26%	2.52%	0.80%	0.94%	0.20%	-0.34%	0.12%	
Japan	0.26%	0.98	0.00%	0.00%	0.01%	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%	
RBA Cash Rate												
	5.50%								4.60%	3.10%	4.00%	
PNG CPI Index												
	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	0.4235	0.62	-0.02%	0.98%	-0.84%	7.82%	5.99%	8.56%	6.19%	-11.68%	-0.48%	
PGK/GBP	0.2333	0.34	0.26%	0.43%	-2.79%	10.46%	9.20%	8.09%	1.00%	-6.57%	-4.40%	
PGK/NZD	0.4456	0.37	-0.20%	0.25%	-3.80%	6.76%	8.54%	11.85%	5.78%	-9.52%	-1.45%	
PGK/JPY	38.660	0.61	-0.85%	-0.67%	-3.11%	17.83%	5.96%	11.97%	11.64%	-7.87%	-2.68%	
USD/AUD	0.6707	0.34	0.03%	-0.96%	0.84%	-7.58%	-5.64%	-7.89%	-5.83%	9.94%	-0.71%	
USD/JPY	136.120	0.61	-0.86%	-0.67%	-3.12%	18.24%	5.98%	11.96%	11.63%	-5.12%	-1.53%	
USD/EUR	1.0605	0.54	-0.39%	0.83%	3.14%	-6.23%	-6.04%	-6.38%	-8.00%	9.68%	-1.94%	
USD/GBP	1.2174	0.50	-0.26%	-0.43%	2.86%	-9.78%	-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%	-0.62%	6.50%	0.25%	1.51%	-3.09%	-3.42%	21.05%	
KSI Home Index	15,402.10	0.76	0.00%	-1.17%	-1.23%	7.02%	-0.29%	10.08%	8.11%	1.50%	14.95%	
Australia												
All Ordinaries	7,320.98	0.54	-0.21%	-0.67%	-0.19%	-5.89%	-1.01%	-13.39%	13.55%	0.71%	19.14%	
S&P/ASX 100	5,986.25	0.65	-0.24%	-0.70%	-0.07%	-2.64%	-1.32%	-11.65%	13.28%	-2.06%	18.88%	
S&P/ASX 20	4,035.60	0.67	-0.21%	-0.82%	-0.13%	-0.55%	-1.83%	-11.32%	12.14%	-1.49%	15.34%	
S&P/ASX 50	6,965.30	0.62	-0.25%	-0.79%	0.04%	-1.80%	-2.10%	-11.12%	12.37%	-4.86%	19.07%	
S&P/ASX 50 Accumulation	86,712.10	0.80	-0.25%	-0.79%	0.06%	3.01%	-0.12%	-10.55%	17.00%	-1.94%	24.43%	
S&P/ASX Midcap 50	9,072.90	0.55	-0.13%	-0.12%	-0.73%	-7.09%	3.88%	-14.95%	18.46%	14.48%	17.68%	
S&P/ASX Small Ordinaries	2,837.90	0.25	-0.06%	-0.14%	-0.82%	-19.59%	-1.45%	-20.79%	14.24%	6.62%	17.88%	
S&P/ASX 200	7,133.87	0.60	-0.21%	-0.65%	-0.08%	-4.17%	-1.43%	-12.42%	13.02%	-1.45%	18.38%	
S&P/ASX 200 Accumulation	86,209.31	0.78	-0.21%	-0.65%	-0.04%	0.11%	0.39%	-11.90%	17.23%	1.40%	23.40%	
S&P/ASX 300	7,098.39	0.58	-0.22%	-0.64%	-0.15%	-4.77%	-1.34%	-12.73%	13.38%	-1.10%	18.77%	
S&P/ASX 200 Energy	11,207.30	0.81	0.52%	2.88%	-0.77%	41.86%	2.29%	1.45%	-1.97%	-29.93%	18.24%	
S&P/ASX 200 Materials	17,756.90	0.69	0.45%	-2.09%	4.41%	6.07%	-2.85%	-16.19%	6.84%	13.37%	22.09%	
S&P/ASX 200 Industrials	6,438.90	0.88	-0.88%	0.85%	-0.37%	-3.11%	-6.34%	-2.18%	11.24%	-14.10%	22.62%	
S&P/ASX 200 Consumer Discretionary	2,809.80	0.22	-0.59%	-2.10%	-3.91%	-20.39%	-1.96%	-15.08%	21.31%	8.63%	27.23%	
S&P/ASX 200 Consumer Staples	12,752.10	0.36	-0.02%	0.63%	-0.89%	-5.85%	-4.33%	-3.40%	7.13%	3.57%	17.98%	
S&P/ASX 200 Healthcare	41,586.90	0.47	-0.84%	-2.48%	-2.39%	-7.96%	2.64%	-1.93%	7.98%	2.97%	41.23%	
S&P/ASX 200 Financials	6,403.80	0.61	-0.33%	-0.03%	-1.91%	-2.03%	0.66%	-14.87%	20.20%	-9.00%	7.39%	
S&P/ASX 200 Information Technology	1,450.10	0.20	-0.17%	1.13%	0.24%	-32.17%	2.53%	-27.19%	-2.79%	56.35%	31.81%	
S&P/ASX 200 Telecommunication Services	1,443.00	0.34	-0.06%	0.15%	1.98%	-11.47%	-0.87%	-10.12%	28.46%	0.91%	22.31%	
S&P/ASX 200 Utilities	8,001.10	0.70	-0.75%	-0.40%	-4.29%	19.55%	-13.62%	0.61%	4.56%	-21.52%	10.09%	
S&P/ASX 200 A-REIT	1,370.10	0.28	-1.10%	-0.43%	0.62%	-21.91%	-7.53%	-18.85%	21.61%	-7.99%	14.01%	
S&P/ASX 200 Financial-x-A-REIT	7,142.30	0.61	-0.33%	-0.03%	-1.91%	-2.03%	0.66%	-14.87%	20.20%	-8.99%	7.39%	
North American												
DJIA	32,757.54	0.50	-0.49%	-3.67%	-2.80%	-9.85%	-6.66%	-11.25%	18.73%	7.25%	22.34%	
S&P 500	3,817.66	0.20	-0.90%	-4.33%	-3.35%	-19.90%	-5.28%	-16.45%	26.89%	16.26%	28.88%	
NASDAQ	10,546.03	0.04	-1.49%	-5.36%	-4.34%	-32.59%	-4.11%	-22.44%	21.39%	43.64%	35.23%	
Toronto S&P/TSX	19,200.76	0.26	-1.25%	-4.09%	-3.89%	-9.53%	-2.21%	-13.84%	21.74%	2.17%	19.13%	
Europe												
FTSE	7,361.31	0.63	0.40%	-1.14%	-0.21%	-0.31%	-3.84%	-4.61%	14.30%	-14.34%	12.10%	
DAX	13,942.87	0.46	0.36%	-2.54%	-3.04%	-12.23%	-5.24%	-11.31%	15.79%	3.55%	25.48%	
CAC 40	6,473.29	0.47	0.32%	-2.67%	-2.43%	-9.50%	-2.71%	-11.07%	28.85%	-7.14%	26.37%	
Asia												
Nikkei	27,237.64	0.55	-1.05%	-2.17%	-2.53%	-5.40%	-1.73%	-5.13%	4.91%	16.01%	18.20%	
Hang Seng	19,352.81	0.45	-0.50%	-0.57%	9.61%	-17.29%	-21.21%	-0.62%	-14.08%	-3.40%	9.07%	
Shanghai	3,107.12	0.29	-1.92%	-2.26%	0.72%	-14.63%	-11.01%	4.50%	4.80%	13.87%	22.30%	
Sensex	61,806.19	0.88	0.76%	-0.52%	1.08%	6.10%	8.31%	-9.48%	21.99%	15.75%	14.38%	

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■	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

		19-Dec-22	52 wk	Movement for the period				Q3 2022	Q2 2022	2021	2020	2019	
			Day	Week	Month	YTD							
Indices													
MSCI World USD Index		2,606.01	0.27	0.00%	-2.13%	-1.30%	-19.36%	-6.58%	-16.60%	20.14%	14.06%	25.19%	
MSCI World Net TR USD Index		7,992.60	0.29	0.00%	-2.11%	-1.21%	-18.07%	-7.21%	-15.26%	21.82%	15.90%	27.67%	
MSCI ACWI-ex-Australia TR AUD Index		13,502.97	0.39	0.00%	-0.38%	-1.74%	-11.09%	-0.72%	-7.44%	29.58%	5.73%	27.97%	
MSCI ACWI Net TR USD Index		317.82	0.29	0.00%	-2.11%	-0.76%	-18.31%	-7.85%	-14.72%	18.54%	16.25%	26.60%	
MSCI ACWI Minimum Volatility USD		2,111.16	0.37	0.00%	-1.78%	0.16%	-12.29%	-6.69%	-9.77%	11.95%	0.56%	18.50%	
MSCI EM Asia Net TR USD Index		570.63	0.36	0.00%	-2.04%	4.90%	-20.55%	-14.96%	-8.32%	-5.08%	28.38%	19.24%	
MSCI EM Net TR USD Index		485.77	0.30	0.00%	-2.10%	3.03%	-20.14%	-12.65%	-10.36%	-2.54%	18.31%	18.42%	
VIX Volatility S&P500		22.42	0.29	-0.88%	-10.32%	0.27%	30.20%	10.14%	39.64%	-24.31%	65.09%	-45.79%	
Commodities													
Light Crude WTI Futures US\$/bbl		75.19	0.28	1.21%	2.76%	-5.69%	-0.59%	-24.84%	5.46%	55.89%	-20.54%	34.46%	
Brent Crude US\$/bbl		80.17	0.09	1.43%	2.55%	-8.68%	2.55%	-23.39%	6.39%	50.93%	-21.52%	22.68%	
Gold US\$/oz		1,797.70	0.40	-0.14%	0.30%	2.46%	-1.86%	-7.49%	-7.51%	-3.34%	24.42%	18.87%	
Silver US\$/oz		23.20	0.60	-0.55%	-0.87%	10.15%	-0.92%	-6.45%	-19.02%	-11.35%	47.38%	15.32%	
Copper US\$/lb		3.78	0.32	0.57%	-0.46%	5.79%	-15.39%	-8.02%	-21.91%	27.05%	25.81%	6.31%	
Iron Ore US\$/mt		106.19	0.40	-1.26%	-0.27%	11.90%	-5.73%	-18.16%	-16.56%	-27.05%	81.97%	20.45%	
Malaysian Palm Oil* RM/tn		3,882	0.13	0.49%	5.55%	1.76%	-24.75%	-34.61%	-20.39%	32.59%	27.95%	51.75%	
LNG *Jap/Korea US\$/mmBtu		36.49	0.33	2.57%	10.83%	33.66%	19.66%	0.17%	9.10%	113.25%	169.81%	-41.08%	
ICCO Cocoa US\$/mt		2,499	0.51	0.97%	1.92%	4.69%	-0.83%	2.75%	-13.55%	-3.19%	2.48%	5.13%	
ICO Coffee US cents/lb		164	0.12	-0.06%	-1.38%	4.16%	-27.44%	-5.16%	3.18%	76.30%	-1.12%	27.34%	
Equities													
Percentage changes													
Domestic													
PGK		Arbitrage	PNGX										
Bank South Pacific		11.57	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%	0.00%	13.10%	0.00%	15.63%	-1.18%	6.25%	18.52%
City Pharmacy			0.90	0.00	0.00%	-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%	-4.04%	-5.00%	0.00%	10.00%	-5.26%	0.00%
Kina Securities Limited		1.87	2.89	0.31	0.00%	1.40%	0.00%	-2.03%	-3.33%	0.00%	-1.67%	-10.98%	27.17%
Steamship Trading Company		24.79	35.46		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Santos Limited		17.05	19.10	1.00	0.00%	0.00%	-0.05%		0.53%	2.70%			
Australia													
A2 Milk Company Limited			6.71	0.93	-0.45%	1.36%	11.09%	22.89%	23.01%	-15.90%	-52.31%	-19.93%	38.57%
ANZ Banking Group Limited			23.72	0.34	0.42%	0.76%	-4.20%	-13.78%	3.50%	-20.18%	21.19%	-7.84%	0.70%
BSP Financial Group			4.90	0.45	0.00%	0.00%	-1.80%	14.75%	1.01%	3.13%	-17.88%		
BHP Billiton Limited			45.99	0.58	0.70%	-1.71%	7.08%	10.82%	-6.62%	-20.29%	-2.19%	9.02%	13.70%
Boral Limited			2.96	0.12	0.68%	-1.33%	-1.99%	-51.48%	3.09%	-25.14%	23.23%	10.49%	-9.31%
Bouganville Copper Limited			0.27	0.02	0.00%	0.00%	-1.82%	-11.48%	-15.15%	-56.00%	5.17%	-10.77%	103.13%
Bank of Queensland			6.82	0.16	0.29%	-0.73%	-7.08%	-15.70%	-2.40%	-23.16%	4.52%	6.76%	-25.26%
Brambles Limited			12.20	0.76	-1.85%	1.50%	5.90%	14.77%	6.54%	8.07%	0.28%	-9.56%	15.47%
Commonwealth Bank of Australia			105.63	0.84	-0.33%	0.23%	-0.89%	4.58%	0.35%	-14.55%	23.01%	2.77%	10.37%
CSL			288.41	0.76	-1.12%	-3.28%	-2.88%	-0.79%	5.93%	0.34%	2.66%	2.69%	48.93%
Fortescue Mining			20.23	0.68	0.50%	-4.21%	5.31%	5.31%	-4.05%	-15.15%	-18.01%	119.18%	155.13%
Horizon Oil Ltd			0.13	0.58	0.00%	1.96%	4.00%	41.30%	9.26%	8.00%	48.39%	-48.33%	20.00%
Kina Securities Ltd			0.79	0.12	1.28%	-1.25%	-8.14%	-7.60%	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			168.77	0.28	-0.67%	-1.59%	-4.95%	-17.83%	-7.15%	-19.07%	48.32%	0.46%	26.88%
Mirvac Group			2.19	0.28	-1.35%	-1.79%	2.82%	-24.74%	-1.52%	-20.68%	10.23%	-16.98%	41.96%
National Australia Bank			30.26	0.57	-0.46%	0.23%	-1.85%	4.92%	5.18%	-15.33%	27.61%	-8.24%	2.33%
Newcrest Mining Limited			20.59	0.37	-0.34%	-0.29%	9.58%	-15.89%	-19.00%	-21.88%	-5.04%	-14.78%	38.76%
Origin Energy Ltd			7.10	0.69	-1.93%	-1.25%	-6.08%	35.50%	-9.77%	-8.03%	10.08%	-43.67%	30.60%
Pilbara Minerals Ltd			4.03	0.58	-1.71%	-11.04%	-15.51%	25.94%	99.13%	-28.44%	267.82%	210.71%	-55.20%
Qbe Insurance Group Ltd			13.03	0.93	-0.91%	0.15%	5.68%	14.80%	-5.10%	5.65%	33.06%	-33.77%	27.52%
Rio Tinto Limited			114.63	0.67	0.07%	-1.48%	10.30%	14.50%	-9.07%	-13.78%	-12.05%	13.38%	27.95%
ResMed Inc			31.47	0.45	-0.94%	-3.02%	-6.48%	-12.05%	10.23%	-5.34%	31.40%	24.34%	37.56%
Santos Limited			7.22	0.39	0.00%	1.55%	-1.23%	14.42%	-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			11.78	0.79	-0.34%	0.01%	-0.93%	6.41%	-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			13.78	0.63	-1.01%	-0.14%	-2.96%	-0.29%	-14.19%	6.13%	1.17%	-8.38%	27.98%
Telstra Corporation Limited			4.05	0.61	0.00%	1.25%	3.58%	-3.11%	0.00%	-2.78%	40.27%	-15.82%	24.21%
Treasury Wine Estates Limited			13.72	0.90	3.00%	1.63%	1.55%	10.82%	10.75%	-1.99%	31.70%	-42.12%	9.73%
Westpac Banking Corporation			23.25	0.74	-0.21%	-0.47%	-3.00%	8.90%	5.85%	-19.55%	10.22%	-20.06%	-3.23%
Worley Limited			14.88	0.88	0.88%	5.53%	0.40%	39.98%	-10.60%	10.30%	-7.48%	-24.95%	34.06%
Woolworths Limited			34.41	0.32	0.29%	1.21%	-1.69%	-9.47%	-4.63%	-4.46%	-3.31%	8.71%	22.91%
International													
iShare MSCI All Asia ex Japan USD \$		64.86	0.32	-0.17%	-2.52%	3.31%	-21.58%	-15.24%	-7.81%	-7.74%	22.19%	15.56%	
Blackrock Int Equity Fund* AUD \$		19.07	0.23	-0.48%	-0.38%	-1.73%	-15.05%	-4.75%	-8.50%	24.76%	-0.61%	23.52%	
Blackrock Australian Equity Fund* AUD \$		1.76	0.46	-0.76%	-0.88%	-0.09%	-9.49%	-6.55%	-10.96%	11.82%	-2.28%	19.10%	
Vanguard International Share* AUD \$		2.64	0.28	-0.48%	-0.37%	-1.74%	-14.74%	-2.83%	-8.11%	23.54%	-0.10%	22.72%	
Vanguard FTSE World exUS USD \$		49.82	0.31	-1.39%	-3.28%	0.04%	-18.70%	-11.21%	-13.25%	5.00%	8.58%	17.92%	
Vanguard FTSE Europe USD \$		55.07	0.41	-0.85%	-3.27%	0.62%	-19.30%	-12.63%	-15.19%	13.28%	2.80%	20.53%	
iShares Core MSCI Europe USD \$		47.08	0.41	-0.21%	-3.17%	0.64%	-19.05%	-12.06%	-15.81%	13.42%	2.83%	20.66%	
iShares Asia 50 USD \$		56.67	0.32	0.14%	-2.96%	3.72%	-25.98%	-20.43%	-8.58%	-12.17%	32.08%	19.35%	
iShares MSCI Japan USD \$		54.20	0.29	-0.64%	-1.90%	0.74%	-19.06%	-7.53%	-14.25%	-0.89%	14.04%	16.87%	
Acadian Global Managed Volatility Equity Fund USD \$		1.55	0.31	-1.58%	-1.17%	-0.94%	-9.39%	-6.92%	-2.24%	10.44%	-11.46%	8.12%	
Lazard Global Managed Volatility Fund - Australia* USD \$		1.03	0.25	0.14%	0.57%	1.37%	-13.33%	-16.44%	-0.19%	19.66%	-22.67%	14.95%	
Robeco Emerging Conservative Equity Fund - Australia USD \$		1.31	0.16	1.56%	-0.01%	1.37%	-10.51%	-5.34%	-2.96%	13.49%	-15.41%	10.42%	

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