

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 28-Nov-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												
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	2.44%		0.00%	0.02%	0.10%	0.45%	0.40%	-0.11%	1.99%	2.07%	2.30%	
90 days	2.69%	0.00	0.00%	-0.01%	0.06%	0.74%	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%	0.03%	1.39%	-1.69%	0.06%	-1.12%	4.29%	4.41%	4.68%	
273 days	2.85%	0.00	0.00%	0.05%	0.21%	-3.10%	0.54%	-1.78%	5.95%	6.04%	6.04%	
364 days reported Thursday/Friday	4.30%		0.00%	0.00%	0.11%	-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%			8.50%	8.04%	7.90%	
GIS 4Y 2022-26	5.16%		0.00%	0.00%	0.19%	-4.68%			-	9.84%	-	
GIS 5Y 2022-27	5.24%		0.00%	0.00%	-0.20%	-4.46%			9.70%	-	-	
GIS 7Y 2022-29	5.56%		0.00%	0.00%	-0.37%	-4.24%			-	-	-	
GIS 8Y 2022-30	5.44%		0.00%	0.00%	-0.74%	5.44%			9.90%	-	-	
GIS 9Y 2022-31	5.44%		0.00%	0.00%	-0.91%	-4.46%			9.90%	11.82%	10.55%	
GIS 10Y 2022-32	5.44%		0.00%	0.00%	-0.84%	-4.46%			9.90%	-	-	
Kina Facility Rate	3.00%	0.00	0.00%	0.00%	0.00%	0.00%			3.00%	3.00%	5.50%	
Ten year Government Bond yields												
United States	3.68%	0.81	0.00%	-0.15%	-0.37%	2.17%	0.82%	0.67%	1.51%	0.91%	1.92%	
United Kingdom	3.13%	0.64	0.00%	-0.06%	-0.39%	2.16%	1.86%	0.62%	0.97%	0.20%	0.82%	
Australia	3.52%	0.74	-0.06%	-0.07%	-0.24%	1.85%	0.23%	0.82%	1.67%	0.97%	1.37%	
New Zealand	4.02%	0.72	-0.09%	-0.17%	-0.16%	1.64%	0.44%	0.64%	2.39%	0.99%	1.65%	
France	2.47%	0.83	0.03%	0.00%	-0.21%	2.27%	0.80%	0.94%	0.20%	-0.34%	0.12%	
Japan	0.25%	0.97	0.00%	0.01%	0.01%	0.18%	0.01%	0.01%	0.07%	0.02%	-0.01%	
Australia	2.85%		0.00%	0.00%	0.25%	2.75%	1.50%	0.75%	0.10%	0.10%	0.75%	
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	0.4255	0.64	1.31%	-0.37%	-3.82%	8.32%	5.99%	8.56%	6.19%	-11.68%	-0.48%	
PGK/GBP	0.2357	0.37	0.38%	-1.79%	-3.76%	11.60%	9.20%	8.09%	1.00%	-6.57%	-4.40%	
PGK/NZD	0.4581	0.49	0.88%	-1.10%	-5.99%	9.75%	8.54%	11.85%	5.78%	-9.52%	-1.45%	
PGK/JPY	39.280	0.67	-0.28%	-1.55%	-6.45%	19.72%	5.96%	11.97%	11.64%	-7.87%	-2.68%	
USD/AUD	0.6676	0.32	-1.29%	0.38%	3.99%	-8.01%	-5.64%	-7.89%	-5.83%	9.94%	-0.71%	
USD/JPY	138.280	0.68	-0.30%	-1.58%	-6.47%	20.12%	5.98%	11.96%	11.63%	-5.12%	-1.53%	
USD/EUR	1.0351	0.41	-0.57%	0.67%	4.03%	-8.47%	-6.04%	-6.38%	-8.00%	9.68%	-1.94%	
USD/GBP	1.2052	0.46	-0.39%	1.83%	3.93%	-10.69%	-8.40%	-7.49%	-0.98%	3.90%	3.37%	
Equity Indices												
Papua New Guinea												
Ksi Index	6,279.33	0.99	0.00%	-0.04%	-0.02%	7.13%	0.25%	1.51%	-3.09%	-3.42%	21.05%	
Ksi Home Index	15,311.87	0.71	0.00%	-1.80%	-1.80%	6.40%	-0.29%	10.08%	8.11%	1.50%	14.95%	
Australia												
All Ordinaries	7,418.60	0.61	-0.39%	1.14%	5.16%	-4.64%	-1.01%	-13.39%	13.55%	0.71%	19.14%	
S&P/ASX 100	6,066.66	0.73	-0.41%	1.27%	5.39%	-1.33%	-1.32%	-11.65%	13.28%	-2.06%	18.88%	
S&P/ASX 20	4,085.10	0.75	-0.56%	1.09%	5.78%	0.67%	-1.83%	-11.32%	12.14%	-1.49%	15.34%	
S&P/ASX 50	7,055.00	0.71	-0.45%	1.33%	5.69%	-0.53%	-2.10%	-11.12%	12.37%	-4.86%	19.07%	
S&P/ASX 50 Accumulation	87,819.00	0.92	-0.45%	1.33%	6.21%	4.33%	-0.12%	-10.55%	17.00%	-1.94%	24.43%	
S&P/ASX Midcap 50	9,226.70	0.62	-0.19%	0.95%	3.57%	-5.52%	3.88%	-14.95%	18.46%	14.48%	17.68%	
S&P/ASX Small Ordinaries	2,878.00	0.29	-0.63%	0.58%	3.50%	-18.46%	-1.45%	-20.79%	14.24%	6.62%	17.88%	
S&P/ASX 200	7,229.14	0.69	-0.42%	1.26%	5.33%	-2.89%	-1.43%	-12.42%	13.02%	-1.45%	18.38%	
S&P/ASX 200 Accumulation	87,335.78	0.86	-0.42%	1.27%	5.77%	1.41%	0.39%	-11.90%	17.23%	1.40%	23.40%	
S&P/ASX 300	7,194.27	0.66	-0.44%	1.20%	5.19%	-3.48%	-1.34%	-12.73%	13.38%	-1.10%	18.77%	
S&P/ASX 200 Energy	11,300.10	0.84	-1.68%	0.05%	0.76%	43.03%	2.29%	1.45%	-1.97%	-29.93%	18.24%	
S&P/ASX 200 Materials	17,195.60	0.57	-0.91%	1.11%	12.90%	2.72%	-2.85%	-16.19%	6.84%	13.37%	22.09%	
S&P/ASX 200 Industrials	6,573.00	0.82	0.33%	1.71%	5.41%	-1.09%	-6.34%	-2.18%	11.24%	-14.10%	22.62%	
S&P/ASX 200 Consumer Discretionary	2,945.60	0.36	-0.73%	0.73%	3.06%	-16.55%	-1.96%	-15.08%	21.31%	8.63%	27.23%	
S&P/ASX 200 Consumer Staples	12,884.00	0.42	-0.17%	0.13%	4.61%	-4.87%	-4.33%	-3.40%	7.13%	3.57%	17.98%	
S&P/ASX 200 Healthcare	43,179.70	0.62	0.05%	1.35%	5.65%	-4.43%	2.64%	-1.93%	7.98%	2.97%	41.23%	
S&P/ASX 200 Financials	6,605.70	0.76	-0.38%	1.18%	1.42%	1.06%	0.66%	-14.87%	20.20%	-9.00%	7.39%	
S&P/ASX 200 Information Technology	1,468.70	0.21	-0.16%	1.53%	1.60%	-31.30%	2.53%	-27.19%	-2.79%	56.35%	31.81%	
S&P/ASX 200 Telecommunication Services	1,453.10	0.37	0.62%	2.69%	2.42%	-10.85%	-0.87%	-10.12%	28.46%	0.91%	22.31%	
S&P/ASX 200 Utilities	8,588.90	0.99	-0.41%	2.74%	22.17%	28.33%	-13.62%	0.61%	4.56%	-21.52%	10.09%	
S&P/ASX 200 A-REIT	1,405.50	0.34	0.57%	3.22%	5.24%	-19.89%	-7.53%	-18.85%	21.61%	-7.99%	14.01%	
S&P/ASX 200 Financial-x-A-REIT	7,367.50	0.76	-0.38%	1.18%	1.42%	1.06%	0.66%	-14.87%	20.20%	-8.99%	7.39%	
North American												
DJIA	33,849.46	0.63	-1.45%	0.44%	3.41%	-6.85%	-6.66%	-11.25%	18.73%	7.25%	22.34%	
S&P 500	3,963.94	0.32	-1.54%	0.35%	2.38%	-16.83%	-5.28%	-16.45%	26.89%	16.26%	28.88%	
NASDAQ	11,049.50	0.13	-1.58%	0.23%	0.56%	-29.37%	-4.11%	-22.44%	21.39%	43.64%	35.23%	
Toronto S&P/TSX	20,220.49	0.52	-0.80%	1.22%	4.09%	-4.72%	-2.21%	-13.84%	21.74%	2.17%	19.13%	
Europe												
FTSE	7,474.02	0.77	-0.17%	1.32%	5.35%	1.21%	-3.84%	-4.61%	14.30%	-14.34%	12.10%	
DAX	14,383.36	0.56	-1.09%	0.02%	8.52%	-9.45%	-5.24%	-11.31%	15.79%	3.55%	25.48%	
CAC 40	6,665.20	0.58	-0.70%	0.46%	6.36%	-6.82%	-2.71%	-11.07%	28.85%	-7.14%	26.37%	
Asia												
Nikkei	28,162.83	0.75	-0.42%	0.78%	2.09%	-2.18%	-1.73%	-5.13%	4.91%	16.01%	18.20%	
Hang Seng	17,297.94	0.25	-1.57%	-2.03%	17.78%	-26.07%	-21.21%	-0.62%	-14.08%	-3.40%	9.07%	
Shanghai	3,078.55	0.24	-0.75%	-0.21%	6.40%	-15.42%	-11.01%	4.50%	4.80%	13.87%	22.30%	
Sensex	62,504.80	1.00	0.34%	2.22%	2.89%	7.30%	8.31%	-9.48%	21.99%	15.75%	14.38%	

For interest rates, rate at end of each respective year reported.

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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

29-Nov-22
Reporting closing prices for prior day

			28-Nov-22	Movement for the period				Q3 2022	Q2 2022	2021	2020	2019	
				52 wk	Day	Week	Month						YTD
Indices													
MSCI World USD Index			2,668.44	0.34	-1.30%	1.06%	4.74%	-17.43%	-6.58%	-16.60%	20.14%	14.06%	25.19%
MSCI World Net TR USD Index			8,177.76	0.36	-1.30%	1.07%	4.87%	-16.17%	-7.21%	-15.26%	21.82%	15.90%	27.67%
MSCI ACWI-ex-Australia TR AUD Index			13,794.03	0.48	-0.45%	0.38%	-0.24%	-9.18%	-0.72%	-7.44%	29.58%	5.73%	27.97%
MSCI ACWI Net TR USD Index			323.34	0.35	-1.28%	0.97%	5.39%	-16.89%	-7.85%	-14.72%	18.54%	16.25%	26.60%
MSCI ACWI Minimum Volatility USD			2,133.06	0.42	-0.71%	1.20%	4.69%	-11.38%	-6.69%	-9.77%	11.95%	0.56%	18.50%
MSCI EM Asia Net TR USD Index			544.29	0.25	-1.14%	0.06%	13.08%	-24.22%	-14.96%	-8.32%	-5.08%	28.38%	19.24%
MSCI EM Net TR USD Index			471.90	0.23	-1.08%	0.09%	9.92%	-22.42%	-12.65%	-10.36%	-2.54%	18.31%	18.42%
VIX Volatility S&P500			22.21	0.28	8.34%	-0.67%	-14.18%	28.98%	10.14%	39.64%	-24.31%	65.09%	-45.79%
Commodities													
Light Crude WTI Futures	US\$/bbl		77.24	0.19	1.26%	-3.12%	-10.74%	2.12%	-24.84%	5.46%	55.89%	-20.54%	34.46%
Brent Crude	US\$/bbl		83.19	0.24	-0.53%	-5.24%	-12.27%	6.41%	-23.39%	6.39%	50.93%	-21.52%	22.68%
Gold	US\$/oz		1,755.30	0.30	-0.76%	0.04%	6.98%	-4.18%	-7.49%	-7.51%	-3.34%	24.42%	18.87%
Silver	US\$/oz		21.13	0.37	-2.24%	0.30%	10.49%	-9.78%	-6.45%	-19.02%	-11.35%	47.38%	15.32%
Copper	US\$/lb		3.62	0.23	-0.41%	1.10%	7.13%	-19.13%	-8.02%	-21.91%	27.05%	25.81%	6.31%
Iron Ore	US\$/mt		94.55	0.23	2.47%	-0.37%	15.28%	-16.07%	-18.16%	-16.56%	-27.05%	81.97%	20.45%
Malaysian Palm Oil* RM/tn			4,060	0.16	0.00%	6.42%	5.24%	-21.30%	-34.61%	-20.39%	32.59%	27.95%	51.75%
LNG *Jap/Korea	US\$/mmBtu		30.28	0.21	1.07%	10.92%	9.97%	-0.71%	0.17%	9.10%	113.25%	169.81%	-41.08%
ICCO Cocoa	US\$/mt		2,438	0.41	0.04%	2.14%	4.41%	-3.25%	2.75%	-13.55%	-3.19%	2.48%	5.13%
ICO Coffee	US cents/lb		161	0.09	-1.77%	2.00%	-9.59%	-28.95%	-5.16%	3.18%	76.30%	-1.12%	27.34%
Equities													
Domestic													
	PGK	Arbitrage			Percentage changes								
Bank South Pacific		11.52	12.41	0.59	0.00%	0.00%	0.00%	1.31%	0.08%	2.90%	2.08%	1.87%	14.81%
Credit Corporation			1.85	0.84	0.00%	-2.63%	-2.63%	10.12%	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		2.03	2.88	0.36	0.00%	-0.35%	-2.37%	-2.37%	-3.33%	0.00%	-1.67%	-10.98%	27.17%
Steamship Trading Company		24.68	35.46		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Santos Limited		17.04	19.10	1.00	0.00%	-0.05%	0.00%		0.53%	2.70%			
Australia													
A2 Milk Company Limited			6.10	0.94	-2.24%	0.99%	15.97%	11.72%	23.01%	-15.90%	-52.31%	-19.93%	38.57%
ANZ Banking Group Limited			24.72	0.47	-0.40%	-0.16%	-3.29%	-10.14%	3.50%	-20.18%	21.19%	-7.84%	0.70%
BSP Financial Group			4.90	0.45	0.00%	-1.80%	0.00%	14.75%	1.01%	3.13%	-17.88%		
BHP Billiton Limited			43.89	0.46	-0.70%	2.19%	17.48%	5.76%	-6.62%	-20.29%	-2.19%	9.02%	13.70%
Boral Limited			3.03	0.13	0.00%	0.33%	5.21%	-50.33%	3.09%	-25.14%	23.23%	10.49%	-9.31%
Bougainville Copper Limited			0.30	0.05	0.00%	9.09%	9.09%	-1.64%	-15.15%	-56.00%	5.17%	-10.77%	103.13%
Bank of Queensland			7.14	0.30	-5.56%	-2.72%	-2.99%	-11.74%	-2.40%	-23.16%	4.52%	6.76%	-25.26%
Brambles Limited			11.95	0.69	0.34%	3.73%	2.31%	12.42%	6.54%	8.07%	0.28%	-9.56%	15.47%
Commonwealth Bank of Australia			108.48	0.97	-0.66%	1.78%	3.63%	7.41%	0.35%	-14.55%	23.01%	2.77%	10.37%
CSL			300.34	0.87	0.21%	1.14%	7.08%	3.31%	5.93%	0.34%	2.66%	2.69%	48.93%
Fortescue Mining			19.04	0.53	0.53%	-0.88%	29.52%	-0.88%	-4.05%	-15.15%	-18.01%	119.18%	155.13%
Horizon Oil Ltd			0.13	0.56	-1.92%	2.00%	-1.92%	38.59%	9.26%	8.00%	48.39%	-48.33%	20.00%
Kina Securities Ltd			0.87	0.48	-0.57%	0.58%	-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			178.45	0.44	0.28%	0.50%	5.28%	-13.12%	-7.15%	-19.07%	48.32%	0.46%	26.88%
Mirvac Group			2.22	0.31	0.91%	4.23%	7.25%	-23.71%	-1.52%	-20.68%	10.23%	-16.98%	41.96%
National Australia Bank			31.59	0.74	0.32%	2.47%	-2.56%	9.54%	5.18%	-15.33%	27.61%	-8.24%	2.33%
Newcrest Mining Limited			19.65	0.30	-1.75%	4.58%	13.26%	-19.73%	-19.00%	-21.88%	-5.04%	-14.78%	38.76%
Origin Energy Ltd			7.93	0.99	-0.25%	4.89%	42.37%	51.34%	-9.77%	-8.03%	10.08%	-43.67%	30.60%
Pilbara Minerals Ltd			4.42	0.69	-0.90%	-7.34%	-13.16%	38.13%	99.13%	-28.44%	267.82%	210.71%	-55.20%
Qbe Insurance Group Ltd			12.96	0.98	-0.46%	5.11%	5.88%	14.19%	-5.10%	5.65%	33.06%	-33.77%	27.52%
Rio Tinto Limited			104.15	0.41	-1.42%	0.21%	18.08%	4.04%	-9.07%	-13.78%	-12.05%	13.38%	27.95%
ResMed Inc			34.02	0.64	0.24%	1.10%	-0.09%	-4.92%	10.23%	-5.34%	31.40%	24.34%	37.56%
Santos Limited			7.25	0.43	-2.68%	-0.82%	-5.84%	14.90%	-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			12.01	0.89	-0.25%	1.01%	5.26%	8.49%	-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			14.24	0.80	-0.28%	0.28%	7.39%	3.04%	-14.19%	6.13%	1.17%	-8.38%	27.98%
Telstra Corporation Limited			4.01	0.54	0.25%	2.56%	2.30%	-4.07%	0.00%	-2.78%	40.27%	-15.82%	24.21%
Treasury Wine Estates Limited			13.63	1.00	0.52%	0.89%	5.25%	10.10%	10.75%	-1.99%	31.70%	-42.12%	9.73%
Westpac Banking Corporation			23.76	0.84	-0.96%	-0.88%	-1.45%	11.29%	5.85%	-19.55%	10.22%	-20.06%	-3.23%
Worley Limited			14.47	0.84	-0.96%	-2.36%	1.40%	36.12%	-10.60%	10.30%	-7.48%	-24.95%	34.06%
Woolworths Limited			34.99	0.34	-0.26%	-0.03%	5.97%	-7.95%	-4.63%	-4.46%	-3.31%	8.71%	22.91%
International													
iShare MSCI All Asia ex Japan	USD \$		62.88	0.25	-0.41%	0.16%	13.30%	-23.98%	-15.24%	-7.81%	-7.74%	22.19%	15.56%
Blackrock Int Equity Fund*	AUD \$		19.56	0.34	0.22%	0.83%	0.25%	-12.84%	-4.75%	-8.50%	24.76%	-0.61%	23.52%
Blackrock Australian Equity Fund*	AUD \$		1.79	0.53	0.23%	1.45%	7.28%	-8.10%	-6.55%	-10.96%	11.82%	-2.28%	19.10%
Vanguard International Share*	AUD \$		2.69	0.36	-0.62%	0.38%	-0.24%	-12.90%	-2.83%	-8.11%	23.54%	-0.10%	22.72%
Vanguard FTSE World exUS	USD \$		50.43	0.35	-1.16%	1.27%	9.94%	-17.71%	-11.21%	-13.25%	5.00%	8.58%	17.92%
Vanguard FTSE Europe	USD \$		55.57	0.43	-1.61%	1.53%	11.05%	-18.57%	-12.63%	-15.19%	13.28%	2.80%	20.53%
iShares Core MSCI Europe	USD \$		47.53	0.43	-1.55%	1.60%	10.82%	-18.28%	-12.06%	-15.81%	13.42%	2.83%	20.66%
iShares Asia 50	USD \$		54.01	0.25	-0.57%	-1.15%	17.87%	-29.45%	-20.43%	-8.58%	-12.17%	32.08%	19.35%
iShares MSCI Japan	USD \$		55.53	0.35	-0.77%	3.22%	11.08%	-17.07%	-7.53%	-14.25%	-0.89%	14.04%	16.87%
Acadian Global Managed Volatility Equity Fund			1.59	0.47	0.56%	1.34%	-0.13%	-7.30%	-6.92%	-2.24%	10.44%	-11.46%	8.12%
Lazard Global Managed Volatility Fund - Australia*			1.03	0.25	0.55%	1.47%	0.10%	-13.24%	-16.44%	-0.19%	19.66%	-22.67%	14.95%
Robeco Emerging Conservative Equity Fund - Australia			1.30	0.11	0.26%	0.33%	1.02%	-11.43%	-5.34%	-2.96%	13.49%	-15.41%	10.42%