

Randomness of returns

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Avg
New Zealand shares	13.3%	-8.0%	13.9%	-1.2%	25.6%	25.1%	10.0%	20.3%	-0.3%	-32.8%	18.9%	2.4%	-1.0%	24.2%	16.5%	17.5%	13.6%	10.1%	23.6%	6.0%	8.9%
Australian shares	28.6%	6.2%	8.0%	-20.1%	22.2%	21.0%	21.5%	29.6%	18.2%	-35.6%	42.1%	7.8%	-10.5%	15.0%	3.9%	1.8%	4.4%	9.0%	18.5%	-7.4%	7.6%
Global large shares	26.9%	2.1%	-11.6%	-36.2%	6.0%	4.3%	15.7%	16.6%	-0.3%	-21.9%	4.5%	4.0%	-5.5%	9.4%	27.0%	10.6%	13.5%	5.3%	20.1%	-3.3%	3.1%
Global value shares	18.6%	17.7%	-9.6%	-36.3%	10.0%	7.7%	15.8%	21.5%	-5.5%	-21.5%	1.8%	1.5%	-5.5%	9.1%	27.0%	9.3%	9.0%	10.0%	14.9%	-5.5%	3.3%
Global small shares	28.9%	15.4%	7.2%	-33.1%	25.7%	13.0%	22.3%	13.8%	-7.9%	-23.5%	15.9%	17.4%	-9.0%	11.0%	32.7%	7.4%	14.1%	10.4%	20.4%	-8.8%	7.2%
Emerging markets shares	69.0%	-18.7%	3.5%	-25.3%	24.1%	14.1%	41.7%	28.3%	27.5%	-38.5%	43.5%	10.7%	-18.4%	11.6%	-2.3%	3.1%	-2.6%	9.9%	35.0%	-9.5%	7.3%
New Zealand property	-6.4%	7.3%	12.1%	10.4%	13.4%	20.0%	19.7%	24.9%	-4.3%	-20.8%	11.8%	3.4%	11.2%	20.5%	3.9%	24.2%	14.5%	3.8%	13.9%	10.9%	9.2%
Global property	-0.1%	44.1%	12.6%	-11.9%	11.5%	25.2%	17.9%	38.3%	-20.8%	-28.7%	9.5%	15.1%	0.1%	17.7%	3.1%	28.7%	14.2%	4.1%	5.0%	-0.1%	7.8%
New Zealand fixed interest	6.5%	6.8%	6.4%	6.5%	4.3%	5.9%	6.3%	5.9%	2.7%	15.4%	5.7%	8.7%	9.3%	6.3%	1.9%	7.4%	5.8%	4.1%	5.8%	4.4%	6.3%
Hedged global bonds	0.4%	10.3%	8.2%	12.1%	6.3%	9.5%	9.1%	5.5%	8.9%	15.2%	3.5%	6.3%	8.3%	7.2%	2.2%	11.1%	4.5%	5.8%	4.0%	1.8%	6.9%
New Zealand cash	4.8%	6.6%	5.9%	5.7%	5.6%	6.3%	7.3%	7.7%	8.6%	8.3%	3.1%	3.0%	2.7%	2.7%	2.7%	3.4%	3.3%	2.3%	1.9%	1.9%	4.6%
Portfolio 50/50	12.8%	6.4%	5.7%	-5.1%	11.8%	11.7%	12.2%	16.0%	3.5%	-8.2%	17.0%	9.1%	0.1%	12.4%	9.1%	9.0%	6.2%	9.0%	12.3%	-2.0%	7.2%

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Highest	69.0%	44.1%	13.9%	12.1%	25.7%	25.2%	41.7%	38.3%	27.5%	15.4%	43.5%	17.4%	11.2%	24.2%	32.7%	28.7%	14.5%	10.4%	35.0%	10.9%
	28.9%	17.7%	12.6%	10.4%	25.6%	25.1%	22.3%	29.6%	18.2%	15.2%	42.1%	15.1%	9.3%	20.5%	27.0%	24.2%	14.2%	10.1%	23.6%	6.0%
	28.6%	15.4%	12.1%	6.5%	24.1%	21.0%	21.5%	28.3%	8.9%	8.3%	18.9%	10.7%	8.3%	17.7%	27.0%	17.5%	14.1%	10.0%	20.4%	4.4%
	26.9%	10.3%	8.2%	5.7%	22.2%	20.0%	19.7%	24.9%	8.6%	-8.2%	17.0%	9.1%	2.7%	15.0%	16.5%	11.1%	13.6%	9.9%	20.1%	1.9%
	18.6%	7.3%	8.0%	-1.2%	13.4%	14.1%	17.9%	21.5%	3.5%	-20.8%	15.9%	8.7%	0.1%	12.4%	9.1%	10.6%	13.5%	9.0%	18.5%	1.8%
	13.3%	6.8%	7.2%	-5.1%	11.8%	13.0%	15.8%	20.3%	2.7%	-21.5%	11.8%	7.8%	0.1%	11.6%	3.9%	9.3%	9.0%	9.0%	14.9%	-0.1%
	12.8%	6.6%	6.4%	-11.9%	11.5%	11.7%	15.7%	16.6%	-0.3%	-21.9%	9.5%	6.3%	-1.0%	11.0%	3.9%	9.0%	6.2%	5.8%	13.9%	-2.0%
	6.5%	6.4%	5.9%	-20.1%	10.0%	9.5%	12.2%	16.0%	-0.3%	-23.5%	5.7%	4.0%	-5.5%	9.4%	3.1%	7.4%	5.8%	5.3%	12.3%	-3.3%
	4.8%	6.2%	5.7%	-25.3%	6.3%	7.7%	10.0%	13.8%	-4.3%	-28.7%	4.5%	3.4%	-5.5%	9.1%	2.7%	7.4%	4.5%	4.1%	5.8%	-5.5%
	0.4%	2.1%	3.5%	-33.1%	6.0%	6.3%	9.1%	7.7%	-5.5%	-32.8%	3.5%	3.0%	-9.0%	7.2%	2.2%	3.4%	4.4%	4.1%	5.0%	-7.4%
	-0.1%	-8.0%	-9.6%	-36.2%	5.6%	5.9%	7.3%	5.9%	-7.9%	-35.6%	3.1%	2.4%	-10.5%	6.3%	1.9%	3.1%	3.3%	3.8%	4.0%	-8.8%
Lowest	-6.4%	-18.7%	-11.6%	-36.3%	4.3%	4.3%	6.3%	5.5%	-20.8%	-38.5%	1.8%	1.5%	-18.4%	2.7%	-2.3%	1.8%	-2.6%	2.3%	1.9%	-9.5%