

**This spreadsheet calculates the illustrative relative per capita investments
for Sydney vs Perth quoted on page 23 of Western Australia's
December 2014 submission to the CGC 2015 Review**

This table shows the per capita capital investment requirement for a 2% increase in population

K is the per capita capital stock function

Constant is used to create equal per capita stocks at population = 25

Constant:	30	35	124
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Population	K quadratic		K linear		K sigmoidal	
	Stock	Per capita investment	Stock	Per capita investment	Stock	Per capita investment

Alternate Positions for Perth

9	4,131		2,835		2,779	
9.18	4,283	16.9	2,950	12.7	2,981	22.4

10	5,000		3,500		4,118	
10.2	5,181	18.1	3,641	14.1	4,442	32.5

11	5,929		4,235		5,662	
11.22	6,141	19.3	4,406	15.6	5,979	28.9

Corresponding Positions for Sydney

2.3	20.7	16,840		14,997		17,237	
	21.114	17,335	23.9	15,603	29.3	17,689	21.8
			142%		230%		97%

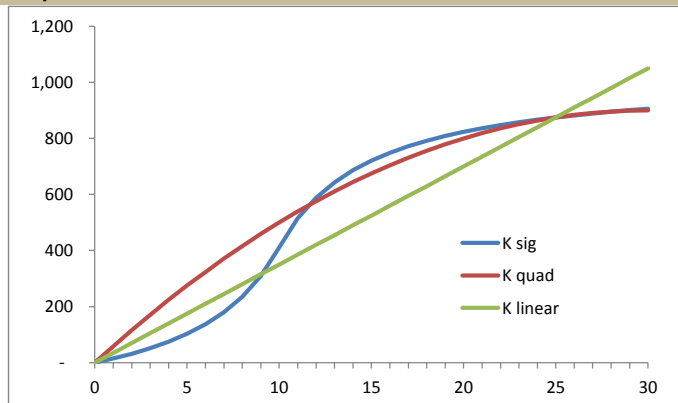
2.3	23	19,573		18,515		19,730	
	23.46	20,111	23.4	19,263	32.5	20,225	21.5
			129%		230%		66%

2.3	25.3	22,211		22,403		22,195	
	25.806	22,771	22.1	23,308	35.8	22,735	21.3
			115%		230%		74%

Population = 25 (same per capita stock for each function)

25	21,875		21,875		21,875	
25.5	22,434	22.3	22,759	35.4	22,409	21.3

Illustrative Per Capita Stock Chart



Population	K quad	K linear	K sig
0	-	-	-
1	59	35	15
2	116	70	32
3	171	105	51
4	224	140	75
5	275	175	103
6	324	210	137
7	371	245	180
8	416	280	235
9	459	315	309
10	500	350	412
11	539	385	515
12	576	420	588
13	611	455	643
14	644	490	686
15	675	525	721
16	704	560	749
17	731	595	772
18	756	630	792
19	779	665	809
20	800	700	824
21	819	735	836
22	836	770	848
23	851	805	858
24	864	840	867
25	875	875	875
26	884	910	882
27	891	945	889
28	896	980	895
29	899	1,015	901
30	900	1,050	906