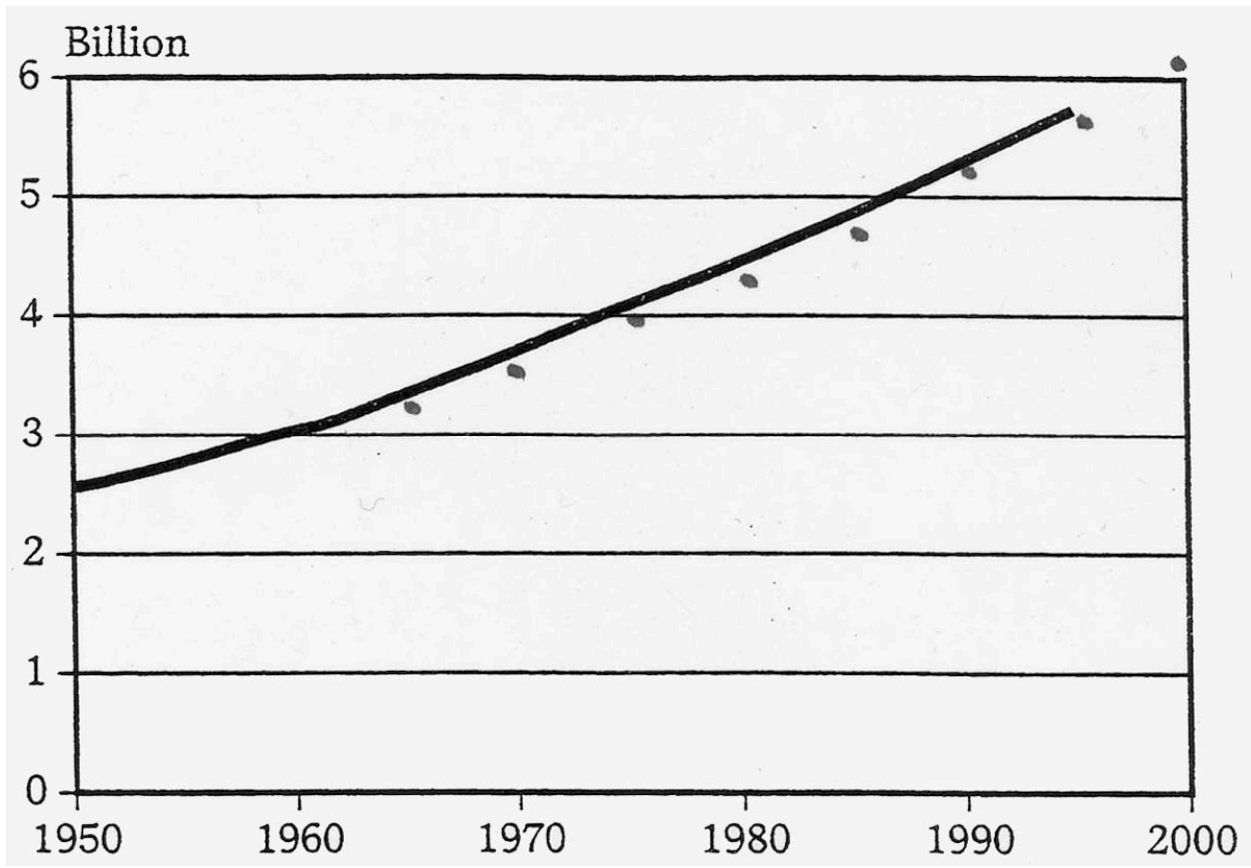
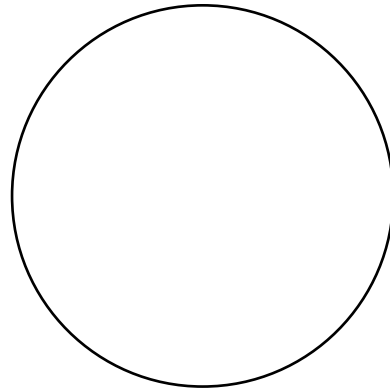


How do we know we have
population-environment
problems?

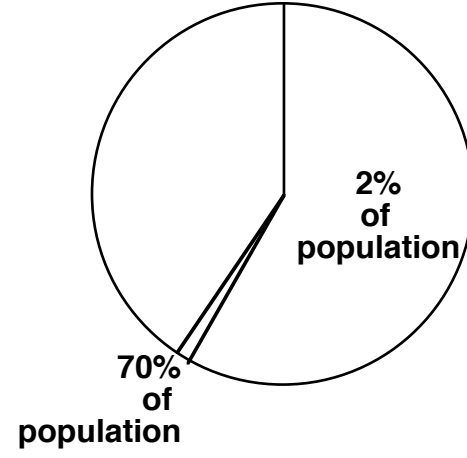
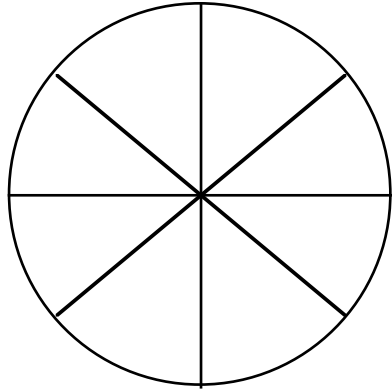




island of 10,000 (hectares)
initial number of families = 100
population growth 3% per year
(=> population doubles every generation
& land area per family halves)

island of 10,000 (hectares)
initial number of families = 100
population growth 3% per year
(=> population doubles every generation
& land area per family halves)

gener- ation	area/ family
0	100
1	50
2	25
3	12.5
4	6.2
5	3.1
6	1.6
7	.8
8	



islands of 10,000 (hectares)
 initial number of families = 100
 population growth 3% per year
 (=> population doubles every generation
 & land area per family halves)

gener- ation	A	B: area/family		
	area/ family	Rich 2%	Middle 28%	Poor 70%
0	100	3000	136	2.9
1	50	1500	68	1.4
2	25	750	34	.7
3	12.5	375	17	
4	6.2	188	8.5	
5	3.1	94	4.2	
6	1.6	47	2.1	
7	.8	23.4	1.1	
8		11.7		

