



Figure by MIT OCW.





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Age Interval	Number Surviving at Beginning of X	Number Dying	Proportion Surviv by Age X
х	N _x	d _x	l _x
0	100	50	1.0
1	50	10	.5
2 3	40	10	.4
3	30	30	.3
4	0	0	0







Evolution Driver	Midpoint	Population (billions)	Doubling Time (years) before after	
Local Agriculture	8000 B.C.	0.005	40,000 - 300,000	1,400 – 3,000
Global Agriculture	1750 A.D.	0.75	750 – 1,800	100 – 130
Public Health	1950	2.5	87	36
Fertility Control	1970	3.7	34 (peak)	>40 (since 1990)







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