

# World Population

*An Analysis of Vital Data*

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Standard Book Number: 226-43234-3

Library of Congress Catalog Card Number: 68-14010

The University of Chicago Press, Chicago 60637  
The University of Chicago Press, Ltd., London

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Printed in the United States of America

**TABLE 1**  
DATA

	AGE AT LAST BIRTHDAY	BOTH SEXES	POPULATION				BIRTHS		DEATHS		AGE AT LAST BIRTHDAY
			MALES		FEMALES		BY AGE OF MOTHER	BOTH SEXES	MALES	FEMALES	
			Number	%	Number	%					
0	14193	7151	4.0	7042	4.2	0	653	366	287	0	
1-4	47939	24298	13.7	23641	14.3	0	228	117	111	1-4	
5-9	52095	26494	15.0	25601	15.4	0	54	19	35	5-9	
10-14	43776	22297	12.6	21479	13.0	1	52	29	23	10-14	
15-19	36212	18186	10.3	18626	10.9	1925	62	25	37	15-19	
20-24	29694	15029	8.5	14665	8.8	4445	70	27	43	20-24	
25-29	24593	12580	7.1	12013	7.2	3624	53	22	31	25-29	
30-34	19781	10097	5.7	9684	5.8	2136	65	22	43	30-34	
35-39	17918	9235	5.2	8683	5.2	1368	54	24	30	35-39	
40-44	14446	7722	4.4	6724	4.1	465	76	40	36	40-44	
45-49	10780	5919	3.3	4861	2.9	112	99	64	35	45-49	
50-54	7959	4255	2.4	3704	2.2	0	86	52	34	50-54	
55-59	6296	3443	1.9	2853	1.7	0	92	67	25	55-59	
60-64	6299	3684	2.1	2615	1.6	0	196	104	92	60-64	
65-69	4318	2660	1.5	1658	1.0	0	131	87	44	65-69	
70-74	2843	1717	1.0	1126	0.7	0	231	152	79	70-74	
75-79	2003	1223	0.7	780	0.5		148	98	50	75-79	
80-84	1181	726	0.4	455	0.3	7205 M.	161	93	48	80-84	
85+	501	308	0.2	193	0.1	6871 F.	104	68	36	85+	
TOTAL	342827	177024		165803		14076	2595	1476	1119	TOTAL	

**TABLE 2**  
MALE LIFE TABLE

x	$nq_x$	$l_x$	$n d_x$	$nL_x$	$n m_x$	$n a_x$	$T_x$	$r_x$	$e_x$	$n M_x$	x
0	0.049009	100000	4901	96689	0.050687	0.3244	6349057	0.0133	63.491	0.051182	0
1	0.018820	95059	1790	375350	0.004768	1.1804	6252368	0.0133	65.746	0.004815	1
5	0.003489	93309	326	465733	0.000699	2.5000	5877018	0.0326	62.984	0.000717	5
10	0.006509	92984	605	463470	0.001306	2.6064	5411286	0.0365	58.196	0.001301	10
15	0.008870	92379	635	460351	0.001379	2.5711	4947815	0.0380	53.560	0.001375	15
20	0.008957	91744	822	456698	0.001799	2.5401	4487464	0.0352	48.913	0.001797	20
25	0.008721	90922	793	452661	0.001752	2.5413	4030766	0.0379	44.332	0.001749	25
30	0.008863	90129	979	448275	0.002184	2.5777	3578104	0.0288	39.700	0.002179	30
35	0.012992	89150	1158	443127	0.002614	2.7343	3129830	0.0238	35.107	0.002599	35
40	0.025928	87992	2281	434962	0.005245	2.8095	2686703	0.0386	30.534	0.005180	40
45	0.053060	85711	4548	417717	0.010887	2.6174	2251740	0.0498	26.271	0.010213	45
50	0.059695	81163	4845	394232	0.012290	2.6096	1834023	0.0406	22.597	0.012221	50
55	0.093003	76318	7098	364741	0.019460	2.6263	1439791	0.0000	18.866	0.019460	55
60	0.132165	69220	9148	323661	0.028266	2.5472	1075050	0.0123	15.531	0.028230	60
65	0.152670	60072	9171	279378	0.032827	2.7125	751389	0.0123	12.508	0.032707	65
70	0.363474	56900	18501	208570	0.088704	2.5173	472011	0.0123	9.273	0.088526	70
75	0.330482	32359	10707	133556	0.080172	2.3438	263442	0.0123	8.131	0.080131	75
80	0.482727	21692	10471	81564	0.128382	2.5102	129886	0.0123	5.988	0.128099	80
85+	1.000000	11221	11221	48322	0.232206	4.3065	48322	0.0123	4.307	0.220780	85+

**TABLE 3**  
FEMALE LIFE TABLE

x	$nq_x$	$l_x$	$n d_x$	$nL_x$	$n m_x$	$n a_x$	$T_x$	$r_x$	$e_x$	$n M_x$	x
0	0.039291	100000	3929	97433	0.040326	0.3466	6491202	0.0148	64.912	0.040755	0
1	0.018379	96071	1766	379365	0.004654	1.2145	6393769	0.0148	66.553	0.004695	1
5	0.006710	94305	633	469944	0.001347	2.5000	6014404	0.0336	63.776	0.001367	5
10	0.005365	93672	503	467173	0.001076	2.6349	5544460	0.0337	59.190	0.001071	10
15	0.010284	93170	958	463629	0.002067	2.6830	5077287	0.0361	54.495	0.002053	15
20	0.014577	92212	1344	457742	0.002936	2.5329	4613658	0.0379	50.033	0.002932	20
25	0.012882	90868	1171	451542	0.002592	2.6118	4155915	0.0384	45.736	0.002581	25
30	0.021988	89697	1972	443624	0.004446	2.5354	3704373	0.0287	41.299	0.004440	30
35	0.017159	87725	1505	434928	0.003461	2.5449	3260749	0.0323	37.170	0.003455	35
40	0.026636	86219	2297	425664	0.005395	2.6344	2825821	0.0527	32.775	0.005354	40
45	0.035587	83923	2987	412428	0.007241	2.5936	2400156	0.0523	28.600	0.007200	45
50	0.044952	80936	3638	395665	0.009195	2.5217	1987729	0.0451	24.559	0.009179	50
55	0.043532	77298	3365	379826	0.008859	3.0194	1592064	0.0198	20.596	0.008763	55
60	0.162689	73923	12028	340513	0.035324	2.5763	1212238	0.0308	16.396	0.035182	60
65	0.125483	61905	7768	290985	0.026696	2.6133	871725	0.0308	14.082	0.026538	65
70	0.300243	54137	16254	230603	0.070486	2.5341	580740	0.0308	10.727	0.070160	70
75	0.275248	37883	10427	162354	0.064225	2.4049	350137	0.0308	9.243	0.064103	75
80	0.418632	27456	11494	108324	0.106106	2.6003	187783	0.0308	6.839	0.105494	80
85+	1.000000	15962	15962	79458	0.200883	4.9780	79458	0.0308	4.978	0.186529	85+

**TABLE 4**  
OBSERVED AND PROJECTED VITAL RATES

RATES PER THOUSAND	OBSERVED POPULATION			PROJECTED POPULATION				STABLE POPULATION			
	BOTH SEXES	MALES	FEMALES	1961		1966		1971			
				MALES	FEMALES	MALES	FEMALES	MALES	FEMALES		
Birth	41.06	40.70	41.44	41.36	41.69	41.76	41.79	41.87	41.72	41.48	41.18
Death	7.57	8.34	6.75	8.09	6.73	7.83	6.74	7.51	6.69	7.32	7.02
Increase	33.49	32.36	34.69	33.27	34.96	33.92	35.05	34.36	35.03		34.1601
PERCENTAGE											
under 15	46.09	45.33	46.90	45.39	46.42	45.52	46.13	45.75	45.99	45.49	45.58
15-64	50.75	50.93	50.56	51.04	50.95	51.49	51.41	51.64	51.62	51.93	51.53
65 and over	3.16	3.75	2.54	3.56	2.63	2.99	2.46	2.62	2.39	2.58	2.90
DEP. RATIO X 100	97.05	96.37	97.79	95.91	96.26	94.22	94.53	93.66	93.73	92.56	94.08

AGE AT LAST BIRTHDAY	BOTH SEXES	POPULATION				BIRTHS		DEATHS		AGE AT LAST BIRTHDAY
		MALES		FEMALES		BY AGE OF MOTHER	BOTH SEXES	MALES	FEMALES	
		Number	%	Number	%					
0	16119	8365	3.8	7754	3.7	0	465	234	231	0
1-4	60828	31311	14.1	29517	13.9	0	187	102	85	1-4
5-9	63456	32291	14.5	31165	14.7	0	58	23	35	5-9
10-14	54244	27502	12.3	26742	12.6	0	46	16	30	10-14
15-19	45794	23059	10.4	22695	10.7	2142	63	37	26	15-19
20-24	38393	19215	8.6	19178	9.1	5795	56	22	34	20-24
25-29	32079	16215	7.3	15864	7.5	4314	63	30	33	25-29
30-34	26489	13441	6.0	13048	6.2	2314	70	36	34	30-34
35-39	22367	11517	5.2	10850	5.1	1384	70	40	30	35-39
40-44	18654	9672	4.3	8582	4.2	420	107	54	53	40-44
45-49	15100	7825	3.5	7275	3.4	150	114	83	31	45-49
50-54	11718	6243	2.8	5475	2.6	0	135	81	54	50-54
55-59	8728	4623	2.1	4105	1.9	0	105	72	33	55-59
60-64	6612	3494	1.6	3118	1.5	0	204	130	74	60-64
65-69	5314	2914	1.3	2400	1.1	0	133	81	52	65-69
70-74	3874	2265	1.0	1609	0.8	0	159	108	51	70-74
75-79	2644	1538	0.7	1106	0.5	0	176	116	60	75-79
80-84	1527	879	0.4	648	0.3	8565 M.	169	109	60	80-84
85+	643	364	0.2	279	0.1	7954 F.	130	81	49	85+
TOTAL	434583	222773		211810		16519	2510	1455	1055	TOTAL

$x$	$nq_x$	$l_x$	$n^d_x$	$nL_x$	$n^m_x$	$n^a_x$	$T_x$	$r_x$	$e_x$	$nM_x$	$x$
0	0.027380	100000	2738	98216	0.027878	0.3485	6613625	0.0048	66.136	0.027974	0
1	0.012877	97262	1252	385563	0.003248	1.2176	6515409	0.0048	66.988	0.003258	1
5	0.003476	96010	334	479213	0.000696	2.5000	6129846	0.0354	63.846	0.000712	5
10	0.002936	95676	281	477766	0.000588	2.8184	5650633	0.0326	59.060	0.000582	10
15	0.007998	95395	763	475121	0.001606	2.5710	5172866	0.0346	54.226	0.001610	15
20	0.005717	94632	541	471830	0.001147	2.5419	4697745	0.0340	49.642	0.001145	20
25	0.009265	94091	872	468422	0.001861	2.6683	4225915	0.0339	44.913	0.001850	25
30	0.013360	93219	1245	463133	0.002689	2.6205	3757493	0.0316	40.308	0.002678	30
35	0.017313	91974	1592	456152	0.003491	2.6658	3294360	0.0292	35.818	0.003473	35
40	0.027800	90381	2513	446246	0.005630	2.7467	2838208	0.0324	31.403	0.005583	40
45	0.051981	87869	4568	428497	0.010659	2.6250	2391963	0.0337	27.222	0.010607	45
50	0.063074	83301	5254	403656	0.013016	2.5542	1963466	0.0398	23.571	0.012975	50
55	0.076036	78047	5934	376869	0.015747	2.7476	1559810	0.0379	19.985	0.015574	55
60	0.170649	72113	12306	330182	0.037270	2.5311	1182941	0.0184	16.404	0.037207	60
65	0.129944	59807	7772	279368	0.027818	2.4695	852759	0.0184	14.259	0.027797	65
70	0.214600	52635	11167	233355	0.047853	2.5981	573391	0.0184	11.019	0.047682	70
75	0.318842	40869	13031	172175	0.075682	2.5314	340036	0.0184	8.320	0.075423	75
80	0.471578	27838	13128	105519	0.124411	2.5267	167861	0.0184	6.030	0.124005	80
85+	1.000000	14710	14710	62342	0.235960	4.2380	62342	0.0184	4.238	0.222527	85+

$x$	$nq_x$	$l_x$	$n^d_x$	$nL_x$	$n^m_x$	$n^a_x$	$T_x$	$r_x$	$e_x$	$nM_x$	$x$
0	0.029140	100000	2914	98044	0.029721	0.3287	6964557	0.0032	69.646	0.029791	0
1	0.011403	97086	1107	385229	0.002874	1.1865	6866514	0.0032	70.726	0.002880	1
5	0.005553	95979	533	478562	0.001114	2.5000	6481284	0.0317	67.528	0.001123	5
10	0.005595	95446	534	475897	0.001122	2.5044	6002722	0.0306	62.891	0.001122	10
15	0.005734	94912	544	473262	0.001150	2.6156	5526825	0.0320	58.231	0.001146	15
20	0.008860	94368	836	469837	0.001780	2.6063	5053563	0.0341	53.552	0.001773	20
25	0.010380	93532	971	465307	0.002086	2.5782	4583726	0.0364	49.007	0.002080	25
30	0.012972	92561	1201	459864	0.002611	2.5511	4118419	0.0355	44.494	0.002606	30
35	0.013851	91360	1265	453934	0.002788	2.7345	3658556	0.0338	40.045	0.002765	35
40	0.029140	90095	2625	444033	0.005913	2.5472	3204622	0.0353	35.570	0.005901	40
45	0.021263	87469	1860	433012	0.004295	2.6697	2760589	0.0435	31.561	0.004261	45
50	0.048364	85609	4140	417988	0.009906	2.5706	2327577	0.0493	27.188	0.009863	50
55	0.040058	81469	3263	400162	0.008155	2.7991	1909588	0.0440	23.439	0.008039	55
60	0.112852	78205	8826	369773	0.023868	2.5917	1509426	0.0428	19.301	0.023733	60
65	0.103057	65380	7150	329111	0.021725	2.5122	1139653	0.0428	16.426	0.021667	65
70	0.148559	62230	9245	289217	0.031965	2.6277	810542	0.0428	13.025	0.031697	70
75	0.241879	52985	12816	234126	0.054740	2.5968	521325	0.0428	9.839	0.054250	75
80	0.378437	40169	15201	162877	0.093331	2.6665	287199	0.0428	7.150	0.092593	80
85+	1.000000	24968	24968	124321	0.200831	4.9793	124321	0.0428	4.979	0.175626	85+

RATES PER THOUSAND	OBSERVED POPULATION			PROJECTED POPULATION				STABLE POPULATION			
	BOTH SEXES	MALES	FEMALES	1968		1973		1978		MALES	FEMALES
Birth	38.01	38.45	37.55	38.79	37.80	38.83	37.81	38.69	37.68	37.21	36.77
Death	5.78	6.53	4.98	6.42	5.11	6.28	5.21	6.17	5.31	6.50	6.06
Increase	32.24	31.92	32.57	32.38	32.68	32.55	32.60	32.52	32.38		30.7110
PERCENTAGE											
under 15	44.79	44.65	44.94	44.61	44.06	44.66	43.56	44.30	43.07	42.96	42.36
15-64	51.99	51.78	52.21	52.13	52.96	52.32	53.38	52.74	53.71	53.74	53.39
65 and over	3.22	3.57	2.85	3.26	2.99	3.01	3.07	2.96	3.22	3.31	4.25
DEP. RATIO X 100	92.35	93.14	91.53	91.83	88.83	91.11	87.35	89.61	86.18	86.09	87.32

AGE AT LAST BIRTHDAY	BOTH SEXES	POPULATION				BIRTHS		DEATHS		AGE AT LAST BIRTHDAY
		MALES		FEMALES		BY AGE OF MOTHER	BOTH SEXES	MALES	FEMALES	
		Number	%	Number	%					
0	16279	8360	3.6	7919	3.6	0	518	283	235	0
1-4	62282	32109	14.0	30173	13.8	0	247	139	108	1-4
5-9	65137	33242	14.5	31895	14.6	0	77	42	35	5-9
10-14	56044	28443	12.4	27601	12.6	0	54	30	24	10-14
15-19	47449	23961	10.4	23488	10.7	1511	42	25	17	15-19
20-24	39837	19977	8.7	19860	9.1	6000	61	37	24	20-24
25-29	33396	16897	7.3	16499	7.5	4637	66	37	29	25-29
30-34	27452	13872	6.0	13580	6.2	2624	78	40	38	30-34
35-39	23132	11871	5.2	11261	5.1	1517	65	36	29	35-39
40-44	19310	9595	4.3	9315	4.3	550	75	45	30	40-44
45-49	15702	8119	3.5	7583	3.5	150	115	77	38	45-49
50-54	12257	6476	2.8	5781	2.6	0	139	90	49	50-54
55-59	9213	4871	2.1	4342	2.0	0	124	84	40	55-59
60-64	6833	3597	1.6	3236	1.5	0	204	119	85	60-64
65-69	5442	2945	1.3	2497	1.1	0	134	91	43	65-69
70-74	4075	2421	1.1	1654	0.8	0	186	132	54	70-74
75-79	2757	1579	0.7	1178	0.5	0	200	133	67	75-79
80-84	1582	860	0.4	722	0.3	8756 M.	190	117	73	80-84
85+	666	337	0.1	329	0.2	8233 F.	145	80	65	85+
TOTAL	448845	229932		218913		16989	2720	1637	1083	TOTAL

TABLE 2 MALE LIFE TABLE

x	$nq_x$	$l_x$	$n^d_x$	$nL_x$	$n^m_x$	$n^a_x$	$T_x$	$r_x$	$\dot{e}_x$	$nM_x$	x
0	0.033093	100000	3309	97874	0.033812	0.3576	6496647	0.0017	64.966	0.033852	0
1	0.017096	96691	1653	382191	0.004325	1.2340	6398773	0.0017	66.178	0.004329	1
5	0.006205	95038	590	473714	0.001245	2.5000	6016583	0.0034	63.307	0.001263	5
10	0.005253	94448	496	470979	0.001053	2.4588	5542869	0.0317	58.687	0.001055	10
15	0.005232	93952	492	468607	0.001049	2.6565	5071890	0.0341	53.984	0.001043	15
20	0.009260	93460	865	465246	0.001860	2.6252	4603283	0.0332	49.254	0.001852	20
25	0.010927	92555	1012	460538	0.002197	2.5923	4138037	0.0342	44.690	0.002190	25
30	0.014345	91583	1314	454704	0.002889	2.5557	3677499	0.0326	40.155	0.002884	30
35	0.015103	90269	1363	448081	0.003043	2.6049	3222795	0.0295	35.702	0.003033	35
40	0.022501	88906	2000	440090	0.004546	2.7808	2774714	0.0327	31.210	0.004502	40
45	0.046717	86505	4060	425126	0.009550	2.6844	2334624	0.0340	26.864	0.009484	45
50	0.067522	82845	5594	400741	0.013959	2.5892	1909498	0.0375	23.049	0.013897	50
55	0.083546	77252	6454	371217	0.017386	2.6696	1508757	0.0386	19.530	0.017245	55
60	0.153206	76797	10847	327322	0.033137	2.5416	1137541	0.0162	16.068	0.033083	60
65	0.143819	59951	8622	278522	0.030957	2.5375	810218	0.0162	13.515	0.030900	65
70	0.241540	51329	12398	226682	0.054693	2.5833	531696	0.0162	10.359	0.054523	70
75	0.348869	38931	13582	160779	0.084475	2.5058	305014	0.0162	7.835	0.084231	75
80	0.504011	25349	12776	93643	0.136435	2.4835	144235	0.0162	5.690	0.136047	80
85+	1.000000	12573	12573	50592	0.248517	4.0239	50592	0.0162	4.024	0.237388	85+

TABLE 3 FEMALE LIFE TABLE

x	$nq_x$	$l_x$	$n^d_x$	$nL_x$	$n^m_x$	$n^a_x$	$T_x$	$r_x$	$\dot{e}_x$	$nM_x$	x
0	0.029058	100000	2906	98117	0.029615	0.3520	7010195	0.0028	70.102	0.029675	0
1	0.014154	97094	1374	384562	0.003574	1.2237	6912078	0.0028	71.189	0.003579	1
5	0.005401	95720	517	477307	0.001083	2.5000	6527516	0.0306	68.194	0.001097	5
10	0.004327	95203	412	474949	0.000867	2.4123	6050209	0.0297	63.551	0.000870	10
15	0.003624	94791	344	473130	0.000726	2.5974	5575260	0.0321	58.816	0.000724	15
20	0.006062	94447	573	470907	0.001216	2.6760	5102131	0.0341	54.021	0.001208	20
25	0.008812	93875	827	467457	0.001770	2.6822	4631224	0.0361	49.334	0.001758	25
30	0.013926	93048	1296	462072	0.002804	2.5560	4163767	0.0357	44.749	0.002798	30
35	0.012810	91752	1175	455854	0.002578	2.5284	3701695	0.0349	40.345	0.002575	35
40	0.016073	90577	1456	449462	0.003239	2.6506	3245841	0.0361	35.835	0.003221	40
45	0.024995	89121	2228	440487	0.005057	2.7031	2796378	0.0423	31.377	0.005011	45
50	0.041744	86893	3627	425730	0.008520	2.5916	2355891	0.0481	27.113	0.008476	50
55	0.045899	83266	3822	408068	0.009366	2.8382	1930162	0.0448	23.181	0.009212	55
60	0.123756	79444	9832	373044	0.026355	2.5410	1522094	0.0406	19.159	0.026267	60
65	0.082694	69612	5757	333659	0.017253	2.4979	1149050	0.0406	16.506	0.017221	65
70	0.153052	63856	9773	296490	0.032963	2.6681	815391	0.0406	12.769	0.032648	70
75	0.252287	54083	13644	237732	0.057394	2.6048	518902	0.0406	9.595	0.056876	75
80	0.411457	40438	16639	162710	0.102259	2.6272	281169	0.0406	6.953	0.101108	80
85+	*1.000000	23860	23800	118459	0.200911	4.9773	118459	0.0406	4.977	0.197568	85+

TABLE 4 OBSERVED AND PROJECTED VITAL RATES

RATES PER THOUSAND	OBSERVED POPULATION			PROJECTED POPULATION				STABLE POPULATION			
	BOTH SEXES	MALES	FEMALES	1969		1974		1979		MALES	FEMALES
Birth	37.85	38.08	37.61	38.64	37.88	38.81	37.87	38.66	37.60	37.83	36.76
Death	6.06	7.12	4.95	6.96	5.06	6.81	5.13	6.69	5.21	6.99	5.93
Increase	31.79	30.96	32.66	31.68	32.82	32.01	32.74	31.97	32.39		30.8380
PERCENTAGE											
under 15	44.50	44.43	44.58	44.22	43.74	44.19	43.36	43.89	42.99	43.17	42.24
15-64	52.26	52.03	52.51	52.60	53.24	52.84	53.55	53.20	53.76	53.64	53.50
65 and over	3.24	3.54	2.91	3.18	3.01	2.96	3.09	2.91	3.25	3.20	4.26
DEP. RATIO X 100	91.34	92.19	90.45	90.12	87.82	89.24	86.75	87.98	86.00	86.44	86.92