

# World Population

*An Analysis of Vital Data*

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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	263880	132096	3.1	131784	3.4	0	22869	12626	10243	0
1-4	954552	481598	11.2	472954	12.3	0	17118	7827	9291	1-4
5-9	1094540	554244	12.9	540296	14.0	0	3611	1677	1934	5-9
10-14	927491	478383	11.1	449108	11.6	187	1280	635	645	10-14
15-19	709430	367229	8.5	342201	8.9	23154	1413	625	788	15-19
20-24	773564	398198	9.3	375366	9.7	96544	2149	805	1344	20-24
25-29	714495	374054	8.7	340441	8.8	99643	2390	904	1486	25-29
30-34	524910	287493	6.7	237417	6.1	57922	1876	817	1059	30-34
35-39	539833	294380	6.8	245453	6.4	36532	2446	1126	1320	35-39
40-44	374983	212181	4.9	162802	4.2	6156	1858	1013	845	40-44
45-49	373244	212979	5.0	160265	4.2	1079	2590	1502	1088	45-49
50-54	280354	160890	3.7	119464	3.1	0	2496	1474	1022	50-54
55-59	190116	109780	2.6	80336	2.1	0	2591	1595	996	55-59
60-64	154663	84602	2.0	70061	1.8	0	3099	1828	1271	60-64
65-69	113590	62571	1.5	51019	1.3	0	3652	2057	1595	65-69
70-74	76509	40808	0.9	35701	0.9	0	4030	2143	1857	70-74
75-79	44881	22995	0.5	21886	0.6	0	3466	1806	1660	75-79
80-84	29251	15686	0.4	13565	0.4	163888 M.	3837	1982	1855	80-84
85+	21840	11326	0.3	10514	0.3	157329 F.	6262	3032	3230	85+
TOTAL	8162126	4301493		3860633		321217	89003	45474	43529	TOTAL

<i>x</i>	$nq_x$	$l_x$	$n^d_x$	$nL_x$	$n^m_x$	$n^a_x$	$T_x$	$r_x$	$i_x$	$nM_x$	<i>x</i>
0	0.090171	100000	3017	94414	0.095506	0.3805	5899277	0.0012	58.993	0.095582	0
1	0.062222	90983	5661	348544	0.016242	1.2819	5804863	0.0012	63.802	0.016252	1
5	0.014766	85322	1260	423459	0.002975	2.5000	5456319	0.0193	63.950	0.003026	5
10	0.006561	84062	551	418816	0.001317	2.2918	5032860	0.0393	59.871	0.001327	10
15	0.008487	83510	709	415838	0.001704	2.5827	4614044	0.3167	55.251	0.001702	15
20	0.010059	82802	833	411984	0.002022	2.5696	4198206	0.0000	50.702	0.002022	20
25	0.012039	81969	987	407442	0.002422	2.5660	3786222	0.0302	46.191	0.002417	25
30	0.014143	80982	1145	402157	0.002848	2.5965	3378781	0.0210	41.723	0.002842	30
35	0.019004	79837	1517	395538	0.003836	2.5975	2976624	0.3266	37.284	0.003825	35
40	0.023693	78319	1856	387196	0.004792	2.6282	2581086	0.0273	32.956	0.004774	40
45	0.034771	76464	2659	375982	0.007071	2.6163	2193890	0.0207	28.692	0.007052	45
50	0.045255	73805	3340	361161	0.009248	2.5455	1817908	0.0564	24.631	0.009162	50
55	0.070825	70465	4991	340560	0.014654	2.6426	1456747	0.3494	20.673	0.014529	55
60	0.103194	65474	6757	311313	0.021703	2.6233	1116187	0.0263	17.048	0.021607	60
65	0.153093	58718	8989	272129	0.033033	2.6128	804874	0.0263	13.708	0.032875	65
70	0.233722	49729	11623	220331	0.052751	2.5641	532744	0.0263	10.713	0.052514	70
75	0.329700	38106	12564	159242	0.078896	2.5097	312414	0.0263	8.199	0.078539	75
80	0.477931	25542	12207	96197	0.126901	2.5132	153172	0.0263	5.997	0.126355	80
85+	1.000000	13335	13335	56975	0.234048	4.2726	56975	0.0263	4.273	0.267702	85+

<i>x</i>	$nq_x$	$l_x$	$n^d_x$	$nL_x$	$n^m_x$	$n^a_x$	$T_x$	$r_x$	$i_x$	$nM_x$	<i>x</i>
0	0.074249	100000	7425	95666	0.077612	0.4163	5818125	0.0026	58.181	0.077726	0
1	0.074670	92575	6913	352219	0.019626	1.3843	5722459	0.0026	61.814	0.019645	1
5	0.017373	85663	1488	424592	0.003505	2.5000	5370240	0.0232	62.691	0.003580	5
10	0.007098	84174	597	419268	0.001425	2.3158	4945648	0.0435	58.755	0.001436	10
15	0.011487	83577	960	415665	0.002310	2.6886	4526381	0.3156	54.158	0.002303	15
20	0.017751	82617	1467	409583	0.003581	2.6130	4110716	0.0000	49.756	0.003581	20
25	0.021630	81150	1755	401423	0.004373	2.5341	3701132	0.0416	45.608	0.004365	25
30	0.022088	79395	1754	392654	0.004466	2.5365	3299710	0.0280	41.561	0.004460	30
35	0.026560	77641	2062	383090	0.005383	2.5189	2907055	0.3326	37.442	0.005378	35
40	0.025677	75579	1941	373128	0.005201	2.5433	2523966	0.3370	33.395	0.005190	40
45	0.033480	73638	2465	362251	0.006806	2.5901	2150838	0.0242	29.208	0.006789	45
50	0.042252	71173	3007	348694	0.008624	2.6154	1788587	0.0601	25.130	0.008555	50
55	0.060596	68166	4131	331042	0.012477	2.6306	1439893	0.3407	21.123	0.012398	55
60	0.087384	64035	5596	307106	0.018221	2.6643	1108852	0.0213	17.316	0.018141	60
65	0.146208	58440	8544	272079	0.031404	2.6453	801745	0.0213	13.719	0.031263	65
70	0.231617	49895	11557	221364	0.052206	2.5675	529667	0.0213	10.616	0.052015	70
75	0.320457	38339	12286	161327	0.076155	2.5284	308302	0.0213	8.042	0.075848	75
80	0.507813	26053	13230	96345	0.137318	2.5085	146975	0.0213	5.641	0.136749	80
85+	1.000000	12823	12823	50630	0.253265	3.9484	50630	0.0213	3.948	0.307210	85+

RATES PER THOUSAND	OBSERVED POPULATION			PROJECTED POPULATION				STABLE POPULATION			
	BOTH SEXES	MALES	FEMALES	1958		1963		1968		MALES	FEMALES
Birth	39.35	38.10	40.75	36.45	38.61	35.91	37.69	35.82	37.30	37.16	37.47
Death	10.90	10.57	11.28	10.83	11.16	10.85	11.03	11.07	11.09	11.51	11.83
Increase	28.45	27.53	29.48	25.62	27.45	25.05	26.65	24.76	26.21		25.6447
PERCENTAGE											
under 15	39.70	38.27	41.29	38.60	41.45	38.52	40.82	39.06	40.89	39.73	40.29
15-64	56.79	58.16	55.27	57.79	55.18	57.70	55.85	56.69	55.50	55.74	55.15
65 and over	3.50	3.57	3.44	3.61	3.37	3.78	3.32	4.25	3.61	4.53	4.56
DEP. RATIO X 100	76.08	71.94	80.93	73.05	81.22	73.31	79.04	76.41	80.20	79.41	81.33

**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	453000	229000	4.2	224000	4.5	0	19142	10561	8581	0
1-4	1251000	634000	11.5	617000	12.5	0	11383	5318	6065	1-4
5-9	1378000	698000	12.7	680000	13.8	0	3073	1461	1612	5-9
10-14	1167000	602000	10.9	565000	11.4	160	1450	755	695	10-14
15-19	893000	462000	8.4	431000	8.7	26849	1447	687	760	15-19
20-24	973000	501000	9.1	472000	9.6	102594	1938	805	1133	20-24
25-29	899000	471000	8.6	428000	8.7	105267	1995	838	1157	25-29
30-34	661000	362000	6.6	299000	6.1	76788	1865	827	1038	30-34
35-39	680000	371000	6.7	309000	6.3	48026	2361	1112	1249	35-39
40-44	472000	267000	4.8	205000	4.2	9747	1861	1068	793	40-44
45-49	470000	268000	4.9	202000	4.1	1331	2705	1597	1108	45-49
50-54	353000	203000	3.7	150000	3.0	0	2794	1695	1099	50-54
55-59	239000	138000	2.5	101000	2.0	0	3377	2152	1225	55-59
60-64	195000	107000	1.9	88000	1.8	0	4280	2594	1686	60-64
65-69	142000	78000	1.4	64000	1.3	0	4926	2859	2067	65-69
70-74	97000	52000	0.9	45000	0.9	0	5511	3112	2399	70-74
75-79	57000	29000	0.5	28000	0.6	0	4557	2490	2067	75-79
80-84	48195	26024	0.5	22171	0.4	188938 M.	4915	2574	2341	80-84
85+	15805	7976	0.1	7829	0.2	181824 F.	9336	4547	4789	85+
TOTAL	10444000	5506000		4938000		370762	88916	47052	41864	TOTAL

**TABLE 2**  
MALE LIFE TABLE

$x$	$nq_x$	$l_x$	$n d_x$	$n L_x$	$n m_x$	$n a_x$	$T_x$	$r_x$	$i_x$	$n M_x$	$x$
0	0.043942	100000	4394	97326	0.045149	0.3915	6410471	0.0328	64.105	0.046118	0
1	0.032360	95606	3094	374098	0.008270	1.3090	6313145	0.0328	66.033	0.008388	1
5	0.010213	92512	945	460198	0.002053	2.5000	5939047	0.0328	64.198	0.002093	5
10	0.006227	91567	570	456354	0.001249	2.4013	5478849	0.0398	59.834	0.001254	10
15	0.007414	90997	675	453330	0.001488	2.5471	5022495	0.0169	55.194	0.001487	15
20	0.008002	90322	723	449830	0.001607	2.5348	4569165	0.0000	50.587	0.001607	20
25	0.008879	89599	796	446069	0.001784	2.5755	4119336	0.0306	45.975	0.001779	25
30	0.011388	88804	1011	441599	0.002290	2.6061	3673267	0.0215	41.364	0.002285	30
35	0.014928	87793	1311	435835	0.003007	2.6128	3231668	0.0274	36.810	0.002997	35
40	0.019898	86482	1721	428356	0.004017	2.6438	2795834	0.0283	32.328	0.004000	40
45	0.029477	84761	2499	417912	0.005979	2.6412	2367478	0.0214	27.931	0.005959	45
50	0.041506	82263	3414	403505	0.008462	2.7130	1949566	0.0569	23.699	0.008350	50
55	0.075965	78848	5990	380301	0.015750	2.6727	1546061	0.0482	19.608	0.015594	55
60	0.115000	72859	8379	344370	0.024331	2.6222	1165760	0.0208	16.000	0.024243	60
65	0.169096	64480	10903	296317	0.036796	2.6078	821393	0.0208	12.739	0.036654	65
70	0.261686	53577	14020	233467	0.060052	2.5453	525073	0.0208	9.800	0.059846	70
75	0.352703	39556	13952	162112	0.086061	2.4434	291606	0.0208	7.372	0.085862	75
80	0.399438	25605	10227	102752	0.099536	2.5290	129494	0.0208	5.057	0.098908	80
85+	*1.000000	15377	15377	26742	0.575027	1.7390	26742	0.0208	1.739	0.570085	85+

**TABLE 3**  
FEMALE LIFE TABLE

$x$	$nq_x$	$l_x$	$n d_x$	$n L_x$	$n m_x$	$n a_x$	$T_x$	$r_x$	$i_x$	$n M_x$	$x$
0	0.036769	100000	3677	97874	0.037568	0.4217	6442486	0.0332	64.425	0.038308	0
1	0.037911	96323	3652	375811	0.009717	1.4036	6344613	0.0332	65.868	0.009830	1
5	0.011519	92671	1067	460688	0.002317	2.5000	5968801	0.0361	64.408	0.002371	5
10	0.006105	91604	559	456566	0.001225	2.4008	5508113	0.0440	60.130	0.001230	10
15	0.008800	91045	801	453328	0.001767	2.6346	5051547	0.0162	55.484	0.001763	15
20	0.011933	90244	1077	448609	0.002400	2.5775	4598219	0.0000	50.953	0.002400	20
25	0.013476	89167	1202	442921	0.002713	2.5764	4149613	0.0348	46.538	0.002703	25
30	0.017253	87965	1518	436142	0.003480	2.5727	3706689	0.0291	42.138	0.003472	30
35	0.020024	86447	1731	427933	0.004045	2.5133	3270547	0.0339	37.833	0.004042	35
40	0.019217	84716	1628	419622	0.003880	2.5673	2842614	0.0382	33.554	0.003868	40
45	0.027164	83089	2257	410074	0.005504	2.6215	2422992	0.0258	29.162	0.005485	45
50	0.036423	80831	2944	397291	0.007410	2.6679	2012918	0.0613	24.903	0.007327	50
55	0.059441	77887	4630	378653	0.012227	2.6709	1615626	0.0408	20.743	0.012129	55
60	0.092019	73258	6741	350557	0.019230	2.6664	1236973	0.0176	16.885	0.019159	60
65	0.150544	66517	10014	308927	0.032414	2.6376	886416	0.0176	13.326	0.032297	65
70	0.236393	56503	13357	249840	0.053462	2.5538	577489	0.0176	10.221	0.053311	70
75	0.311991	43146	13461	181903	0.074002	2.4871	327648	0.0176	7.594	0.073821	75
80	0.421816	29685	12522	117892	0.106212	2.5616	145745	0.0176	4.910	0.105588	80
85+	*1.000000	17163	17163	27854	0.616195	1.6229	27854	0.0176	1.623	0.611700	85+

**TABLE 4**  
OBSERVED AND PROJECTED VITAL RATES

	OBSERVED POPULATION			PROJECTED POPULATION				STABLE POPULATION			
	BOTH SEXES	MALES	FEMALES	1967		1972		1977			
RATES PER THOUSAND				MALES	FEMALES	MALES	FEMALES	MALES	FEMALES	MALES	FEMALES
Birth	35.50	34.31	36.82	33.50	35.51	33.21	34.81	33.23	34.51	34.78	34.80
Death	8.51	8.55	8.48	8.23	7.83	8.17	7.70	8.39	7.79	8.38	8.40
Increase	26.99	25.77	28.34	25.27	27.68	25.03	27.11	24.85	26.72		26.3984
PERCENTAGE											
under 15	40.68	39.28	42.24	39.49	42.19	39.41	41.50	38.72	40.29	39.91	40.02
15-64	55.87	57.21	54.37	57.08	54.55	57.07	55.31	57.35	56.25	55.94	55.51
65 and over	3.45	3.51	3.38	3.43	3.26	3.52	3.19	3.93	3.45	4.16	4.47
DEP. RATIO X 100	78.99	74.79	83.91	75.19	83.33	75.21	80.80	74.36	77.76	78.78	80.16