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CUMULATIVE FERTILITY RATES
1908-1965



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CUMULATIVE FERTILITY RATES 1908-1965

A paper prepared in the Bureau, dated August 1966, gave age-specific fertility rates by single age for the years 1921-1965. The present paper explores the effect of cumulating the annual rates for particular annual cohorts, i.e. for women born in each particular calendar year.

2. The data in the former paper, which began at 1921, cover the earliest fertile years of women born as far back as 1906. For the present paper, estimates of age-specific fertility have been made for the years 1908-1920, enabling the fertility experience of women born as far back as 1893 to be included.
3. The table shows the cumulated age-specific fertility for women having the same birth year, estimated by cumulating the annual fertility rates appropriate to women of that birth year. The cumulated figure at the end of the reproductive period is the measure of total births to women of the birth year who survived to the end of the reproductive period. It is not a precise measure, because the experience of the women who dropped out through death or emigration, up to the time they dropped out, may not have been the same as that of those who survived to the end. Also, the experience of those who joined the cohort by immigration, prior to their joining, may not have been the same as that of women in Australia whom they joined. No attempt has been made to assess these effects although there are available some statistics of issue at death and of issue of married women born abroad which might assist in an evaluation.
4. Since the calculation of the rates in this paper, more refined annual estimates of the numbers of women at each age, on which the age-specific fertility rates are calculated, have been prepared for the period 1921-1961 (see the "January 1967" set of age estimates) and there will be some further amendments when the 1966 census results are complete, affecting fertility rates after 1961. However, it is thought advisable to issue this paper on an interim basis in order to test whether it is likely to be useful and whether it will stimulate criticism or further suggestion. If the reception is sufficiently encouraging, a re-issue containing a definitive set of figures up to 1966 will be prepared and issued in due course. Only very small amendments are expected to result to the present rates from the revisions.
5. The population estimates by single years prior to 1921 are based on a set of estimates of five-year age groups for single calendar years, prepared by the Commonwealth Statistician and published in "Cancer Mortality in Australia: a statistical study"; by M.J. Holmes, Commonwealth Department of Health, 1925.

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

JUNE 1967

CUMULATIVE FERTILITY * AT EACH AGE OF 1,000 WOMEN OF
EACH COHORT (BIRTH YEAR)

Age attained (years)	Cohort (Birth Year)												
	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
15	2	2	2	2	3	2	2	2	2	2	2	2	1
16	9	9	9	10	10	10	9	9	8	8	7	8	8
17	27	27	31	31	32	30	27	26	25	24	24	26	27
18	66	66	74	75	73	65	59	62	61	62	64	68	69
19	136	136	146	141	131	119	114	119	125	133	130	134	136
20	228	228	237	223	206	193	185	210	216	228	218	222	228
21	356	356	356	326	302	288	299	328	334	351	332	337	340
22	498	498	484	445	417	428	437	467	468	492	464	469	469
23	662	662	624	575	573	589	591	621	615	650	611	619	613
24	824	824	768	742	742	763	749	781	771	812	764	775	760
25	980	980	944	914	915	935	913	947	928	976	920	924	906
26	1,136	1,136	1,117	1,091	1,091	1,109	1,078	1,108	1,088	1,138	1,072	1,073	1,044
27	1,310	1,311	1,285	1,260	1,260	1,280	1,230	1,262	1,240	1,293	1,218	1,205	1,167
28	1,477	1,484	1,452	1,427	1,420	1,443	1,379	1,416	1,385	1,446	1,349	1,328	1,288
29	1,638	1,642	1,610	1,582	1,574	1,593	1,520	1,555	1,523	1,577	1,465	1,447	1,400
30	1,792	1,793	1,760	1,730	1,720	1,735	1,651	1,686	1,642	1,692	1,572	1,555	1,508
31	1,925	1,923	1,887	1,857	1,844	1,856	1,760	1,796	1,742	1,797	1,665	1,652	1,604
32	2,059	2,051	2,016	1,981	1,962	1,974	1,863	1,897	1,843	1,895	1,765	1,753	1,700
33	2,174	2,166	2,128	2,086	2,068	2,068	1,947	1,985	1,931	1,984	1,851	1,844	1,785
34	2,280	2,271	2,229	2,183	2,157	2,151	2,032	2,066	2,013	2,067	1,930	1,926	1,864
35	2,375	2,358	2,320	2,267	2,234	2,227	2,104	2,140	2,089	2,142	1,999	1,998	1,936
36	2,458	2,441	2,394	2,337	2,301	2,293	2,166	2,208	2,156	2,208	2,062	2,064	1,998
37	2,531	2,505	2,455	2,401	2,359	2,347	2,220	2,261	2,213	2,264	2,116	2,121	2,056
38	2,593	2,563	2,508	2,457	2,411	2,401	2,269	2,315	2,263	2,314	2,166	2,171	2,109
39	2,640	2,609	2,552	2,500	2,454	2,445	2,310	2,356	2,303	2,357	2,208	2,218	2,159
40	2,677	2,647	2,587	2,536	2,488	2,479	2,344	2,387	2,337	2,390	2,243	2,257	2,197
41	2,704	2,671	2,612	2,561	2,513	2,502	2,367	2,410	2,362	2,416	2,270	2,288	2,228
42	2,727	2,693	2,633	2,582	2,531	2,522	2,384	2,430	2,382	2,439	2,292	2,310	2,248
43	2,742	2,706	2,647	2,595	2,543	2,534	2,397	2,443	2,397	2,454	2,306	2,324	2,261
44	2,750	2,715	2,655	2,603	2,551	2,541	2,404	2,452	2,406	2,463	2,316	2,332	2,269
45	2,756	2,719	2,659	2,608	2,555	2,546	2,409	2,457	2,411	2,468	2,320	2,336	2,273
46	2,758	2,722	2,661	2,611	2,557	2,548	2,411	2,459	2,414	2,470	2,322	2,338	2,275
47	2,759	2,723	2,662	2,611	2,558	2,548	2,412	2,460	2,415	2,471	2,323	2,339	2,276
48	2,760	2,724	2,662	2,612	2,558	2,549	2,412	2,460	2,415	2,472	2,324	2,339	2,276
49	2,760	2,724	2,662	2,612	2,559	2,549	2,412	2,461	2,415	2,472	2,324	2,340	2,277

* Based on interpolated data regarding number of women at each age for the years 1908 to 1920.

CUMULATIVE FERTILITY AT EACH AGE OF 1,000 WOMEN OF

EACH COHORT (BIRTH YEAR) - continued

Age attained (years)	Cohort (Birth year)														
	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920
15	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2
16	8	8	9	9	10	10	11	12	11	10	10	9	8	8	9
17	27	29	31	31	34	35	36	34	33	30	29	27	27	27	27
18	68	72	76	77	83	79	82	75	73	68	66	62	66	65	66
19	138	140	146	147	151	149	146	135	132	124	125	122	126	125	126
20	228	228	238	234	237	231	221	208	202	198	202	197	203	202	206
21	342	342	346	340	336	323	312	297	291	290	299	291	301	301	315
22	472	468	471	453	440	428	417	402	398	402	414	405	416	430	448
23	609	603	595	566	551	539	535	520	522	527	542	536	557	575	606
24	752	735	716	683	668	656	665	648	654	661	682	684	704	740	766
25	882	856	839	802	790	785	803	780	792	802	836	836	868	905	938
26	1,007	979	962	927	918	917	942	915	931	953	989	1,000	1,028	1,079	1,137
27	1,132	1,101	1,084	1,053	1,049	1,047	1,080	1,053	1,079	1,098	1,147	1,161	1,192	1,265	1,324
28	1,254	1,222	1,212	1,182	1,178	1,180	1,220	1,192	1,222	1,252	1,307	1,323	1,368	1,446	1,498
29	1,372	1,340	1,331	1,301	1,302	1,309	1,353	1,323	1,365	1,401	1,464	1,492	1,534	1,606	1,663
30	1,487	1,455	1,450	1,417	1,424	1,435	1,478	1,456	1,506	1,548	1,623	1,641	1,687	1,753	1,819
31	1,589	1,556	1,553	1,521	1,533	1,544	1,600	1,584	1,637	1,689	1,769	1,770	1,820	1,884	1,954
32	1,690	1,653	1,653	1,623	1,638	1,659	1,725	1,709	1,774	1,819	1,903	1,888	1,945	2,004	2,081
33	1,778	1,741	1,747	1,716	1,742	1,772	1,842	1,828	1,895	1,931	2,020	1,994	2,055	2,112	2,192
34	1,858	1,823	1,832	1,808	1,844	1,880	1,953	1,937	1,996	2,029	2,125	2,089	2,154	2,208	2,290
35	1,935	1,898	1,912	1,901	1,939	1,980	2,050	2,030	2,085	2,118	2,215	2,173	2,242	2,294	2,377
36	2,002	1,971	1,993	1,984	2,027	2,065	2,130	2,108	2,163	2,193	2,294	2,247	2,317	2,367	2,453
37	2,065	2,040	2,069	2,058	2,100	2,132	2,193	2,177	2,227	2,259	2,362	2,311	2,379	2,430	2,517
38	2,128	2,104	2,137	2,120	2,161	2,191	2,251	2,232	2,284	2,314	2,417	2,367	2,433	2,484	2,571
39	2,181	2,155	2,189	2,168	2,210	2,238	2,296	2,279	2,328	2,359	2,460	2,410	2,477	2,526	2,615
40	2,224	2,194	2,228	2,203	2,247	2,274	2,331	2,315	2,363	2,395	2,494	2,445	2,509	2,559	2,650
41	2,256	2,221	2,254	2,229	2,273	2,299	2,355	2,340	2,387	2,420	2,519	2,469	2,534	2,582	2,673
42	2,279	2,240	2,273	2,248	2,293	2,318	2,374	2,361	2,405	2,438	2,537	2,487	2,551	2,599	2,692
43	2,293	2,254	2,286	2,260	2,306	2,331	2,387	2,374	2,418	2,451	2,550	2,499	2,562	2,610	2,703
44	2,301	2,261	2,293	2,267	2,313	2,338	2,394	2,381	2,425	2,457	2,556	2,505	2,569	2,617	2,709
45	2,306	2,265	2,297	2,271	2,317	2,342	2,398	2,385	2,429	2,461	2,560	2,509	2,571	2,620	2,712
46	2,308	2,267	2,298	2,273	2,319	2,344	2,400	2,386	2,431	2,463	2,561	2,510	2,573	2,621	
47	2,309	2,268	2,299	2,274	2,320	2,345	2,400	2,387	2,432	2,464	2,562	2,511	2,574		
48	2,309	2,268	2,299	2,274	2,320	2,345	2,400	2,388	2,432	2,464	2,562	2,511			
49	2,309	2,268	2,299	2,274	2,321	2,345	2,400	2,388	2,432	2,464	2,562				

CUMULATIVE FERTILITY AT EACH AGE OF 1,000 WOMEN OF EACH

COHORT (BIRTH YEAR) - continued

Age attained (years)	Cohort (Birth year)														
	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
15	2	2	1	2	1	2	2	1	1	2	1	2	2	2	2
16	8	8	8	8	6	7	7	8	7	8	9	10	9	11	12
17	26	26	24	25	23	25	23	24	25	29	31	35	35	39	41
18	63	61	60	61	56	58	57	61	71	77	82	88	92	99	101
19	120	121	119	123	112	117	124	139	153	163	169	181	190	198	200
20	202	205	206	206	199	213	236	251	269	284	297	318	332	341	345
21	310	322	316	321	329	360	382	400	425	445	470	494	513	531	537
22	452	458	454	480	507	530	559	583	610	646	675	708	732	755	770
23	603	617	637	674	697	721	760	786	824	866	896	943	974	1,008	1,018
24	768	807	835	868	898	925	967	1,001	1,044	1,090	1,129	1,189	1,223	1,260	1,275
25	959	1,008	1,030	1,064	1,103	1,127	1,185	1,218	1,264	1,319	1,357	1,436	1,466	1,506	1,526
26	1,156	1,193	1,221	1,263	1,304	1,335	1,395	1,426	1,482	1,541	1,583	1,669	1,702	1,745	1,765
27	1,336	1,372	1,407	1,450	1,498	1,529	1,593	1,627	1,685	1,754	1,795	1,887	1,923	1,968	1,980
28	1,508	1,550	1,582	1,630	1,679	1,713	1,777	1,820	1,882	1,954	1,995	2,086	2,126	2,169	2,175
29	1,671	1,712	1,749	1,797	1,842	1,882	1,949	1,996	2,063	2,133	2,172	2,269	2,311	2,345	2,341 +
30	1,822	1,865	1,902	1,953	1,995	2,036	2,112	2,159	2,226	2,298	2,339	2,431	2,473	2,495	2,482
31	1,959	2,000	2,031	2,085	2,129	2,175	2,249	2,297	2,367	2,445	2,481	2,567	2,603	2,615	
32	2,083	2,121	2,153	2,211	2,255	2,300	2,377	2,423	2,498	2,576	2,603	2,691	2,714		
33	2,187	2,227	2,262	2,321	2,365	2,407	2,489	2,536	2,609	2,685	2,708	2,788			
34	2,285	2,322	2,362	2,419	2,460	2,503	2,589	2,633	2,704	2,776	2,790				
35	2,367	2,407	2,447	2,506	2,545	2,588	2,673	2,713	2,793	2,847					
36	2,441	2,480	2,519	2,579	2,618	2,659	2,744	2,782	2,847						
37	2,503	2,542	2,579	2,644	2,678	2,717	2,802	2,835							
38	2,555	2,594	2,631	2,695	2,727	2,766	2,844								
39	2,597	2,637	2,671	2,736	2,766	2,801									
40	2,630	2,667	2,703	2,765	2,793										
41	2,653	2,689	2,724	2,785											
42	2,670	2,705	2,739												
43	2,680	2,714													
44	2,685														

CUMULATIVE FERTILITY AT EACH AGE OF 1,000 WOMEN OF
EACH COHORT (BIRTH YEAR) - continued

Age attained (years)	Cohort (Birth year)														
	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
15	2	2	2	2	2	3	2	3	3	3	3	4	4	4	4
16	12	12	12	13	13	14	14	17	15	19	18	19	21	22	
17	41	41	43	46	47	48	50	54	54	56	61	59	65		
18	103	105	109	113	118	117	121	131	125	130	138	129			
19	209	213	221	224	233	229	236	248	232	236	243				
20	358	367	375	381	391	389	389	400	368	365					
21	556	566	574	581	599	584	573	576	521						
22	787	801	809	824	834	804	769	773							
23	1,038	1,054	1,070	1,070	1,082	1,026	978								
24	1,295	1,317	1,326	1,311	1,317	1,245									
25	1,552	1,562	1,567	1,533	1,536										
26	1,786	1,791	1,782	1,736											
27	1,999	1,990	1,973												
28	2,184	2,165													
29	2,338														