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**CENTRAL STATISTICAL OFFICE**

# **TRWANIE ŻYCIA W 2007 R.**

## **LIFE EXPECTANCY TABLES OF POLAND 2007**

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**Statistical  
Information  
and Elaborations**

**Informacje  
i opracowania  
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## **Preface**

*This publication is a regular item of the Central Statistical Office elaborations concerning life tables. Since the 1950-ties the publications were edited every five years and contained complete life tables. Also, each year since early 70-ties the abridged life tables were calculated, using an alternative method. Beginning from 1995 both calculation methods have been unified and only complete life tables are prepared. This makes possible the presentation of data according to any age groups and current method allows for comparability of results with previous abridged tables. In 1996 abridged life tables for years 1950-1969 were prepared first time. The tables for the years 1950-1969 have been included to the supplement to publication by L. Bolesławski Life tables and mortality by causes in 1995, "Statistical Information and Elaborations", CSO, Warsaw 1996.*

*Since 2006 has been partly modified the method of calculation the life table parameters for small units (e.g. administrative ones). It has concerned the introduction of changes in used extrapolation method and in smoothing the death probabilities. The new methods have caused a slightly decrease the life expectancy for the old-old people. The differences in values of parameters calculated with the new and previous methods do not exceed 0,2 points for life expectancy at birth, for this reason all results of the calculation are comparable in time.*

*Complete life expectancy tables are useful for specialists dealing with estimates, simulation and short-term population projections. Main elements employed in such research include survival rates and probabilities of death by age. The abridged life tables which provide more aggregate indicators are useful for analyses of long-term trends and in inter-regional comparisons.*

*Besides tables, the publication also includes a comment for users interested in population issues. It presents current life table indicators, a profile on changes which took place in the period 1950-2007 and regional and international comparison. The additional part of elaboration concerns a brief description of mortality process in Poland by five main groups of death causes – developed in the period 1980-2007 – and regional results of analysis of mortality by causes in 2007. Methodological remarks are addressed to users interested in computational techniques. A bibliographical note is included, mentioning all life tables published by CSO of Poland.*

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*Warsaw, July 2007*

## Contents

1. Preface.....	6
2. Basic data.....	6
3. Changes in the life expectancy in the years 1950-2007.....	8
4. Spatial diversity of life expectancy.....	12
4.1. Regions (NUTS 1).....	12
4.2. Voivodships (NUTS 2).....	14
4.3. Subregions (NUTS 3).....	18
5. International comparison.....	19
6. Mortality in Poland in 1980-2007.....	22
6.1. Mortality by age and selected groups of causes in 1980-2007.....	22
6.2. Mortality by selected groups of causes and voivodships in 2007.....	28
7. Methodological remarks.....	34
7.1. Complete life tables.....	34
7.2. Abridged life tables.....	36
7.3. Life tables for both sexes combined.....	37
8. List of publications containing Polish complete and abridged life tables.....	41

## List of figures

Fig. 1. Life expectancy by sex in Poland in 1990-2007.....	7
Fig. 2. Life expectancy in Poland.....	10
Fig. 3. Life expectancy at age 45.....	10
Fig. 4. Life expectancy at age 60.....	11
Fig. 5. Life expectancy at age 75.....	11
Fig. 6. Life expectancy in Poland by regions (NUTS 1) in 2007.....	13
Fig. 7. Life expectancy in Poland by voivodships (NUTS 2) in 2007.....	15
Fig. 8. Differences in life expectancy by voivodships (NUTS 2) in 2007.....	17
Fig. 9. Life expectancy in 2007 in selected subregions (NUTS 3).....	18
Fig. 10. Life expectancy at birth in European countries.....	20
Fig. 11. Life expectancy at birth in European countries.....	22
Fig. 12. Standardised death rates by age in 1980-2007.....	25
Fig. 13. Standardised death rates by selected groups of causes in 1980-2007.....	26
Fig. 14. Death rates by voivodships in 2007.....	29
Fig. 15. Death rates caused by the circulatory system diseases in 2007.....	30
Fig. 16. Death rates caused by neoplasms in 2007.....	30

<i>Fig. 17. Death rates caused by external causes in 2007</i> .....	31
<i>Fig. 18. Death rates caused by the respiratory system diseases in 2007</i> .....	32
<i>Fig. 19. Death rates caused by the digestive system diseases in 2007</i> .....	32

### **Tables in text**

<i>Table 1. Life expectancy by age in Poland in 1950-2007</i> .....	9
<i>Table 2. Life expectancy in Poland by regions (NUTS 1) in 2007</i> .....	12
<i>Table 3. Life expectancy by voivodships (NUTS 2)</i> .....	16
<i>Table 4. Life expectancy in European countries</i> .....	21
<i>Table 5. Standardised death rates by selected groups of causes in 1980-2007</i> .....	24
<i>Table 6. Life table for both sexes combined 2007</i> .....	38
<i>Table 7. Life expectancy for both sexes combined</i> .....	40

### **Basic tables**

<i>Table A. Life table of Poland 2007</i> .....	44
<i>Table B. Abridged life table of Poland 2007</i> .....	56
<i>Table C. Life expectancy in Poland by voivodships in 2007</i> .....	57
<i>Table D. Life expectancy in Poland by subregions in 2007</i> .....	58

## 1. Preface

The data presented in this publication describe the length of life and mortality of the Polish population in 2007. The indicators included in the tables can be interpreted as calculated into hypothetical group of population of 100 thousand at the moment of birth, with the assumption that in the period of this group's life (i.e. over 100 years) the risk of death in particular age groups would be identical as in the examined period. It should be stressed that the rates included in the life expectancy table do not constitute a forecast, which means that the average further life expectancy does not apply to people living at the moment but defines the average age which was reached by those who died in 2007 (it is a kind of weighted average). People who are born today will live a few years longer on average.

## 2. Basic data

Benefits arising from the development of new medical technologies and modern diagnostic methods as well as the improvement of general health of Poles from healthy lifestyle choices are reflected by a decline in mortality which has been steadily decreasing for fifteen years now and has substantially lengthened average life expectancy. In 2007, Polish men lived 71 years on average while women lived 79.7 years. In comparison to 1990<sup>1</sup> men live 4.8 years longer while women 4.5 years longer.

In Poland is observed a high excess of mortality males above females. Despite the fact that in the decade of the 90s the difference between life expectancy for women and men was falling (in 1991 – 9.2. years; 2001 – 8.2 years) the new decade brought a renewed increase of this value to 8.8 in 2007. The phenomenon of over-mortality of men exists in all age groups. In 2007 1.1% men did not live to the age of 18 while among women – 0.8% did not reach the maturity age. The difference increases with age. The age of full economic activity eg. 45 years was not reached by 6.6% men and 2.5% women, while 75 years of age – as many as 53.3% men and 26.7% women. High excess of mortality of men over women is confirmed also by parameters of life expectancy calculated separately for both sexes. In 2007, the life expectancy of 15-year-olds was 56.6 years for males and 65.3 for a females. In comparison to 1990 it is 3.6 year more in case of males and 3.5 years in case of females. On the other hand life expectancy of the 45-year-olds was 28.8 years for men and 36.1 for women which in relation to 1990 meant an increase in the life expectancy for males by 2.8 years and by 3.2. for females.

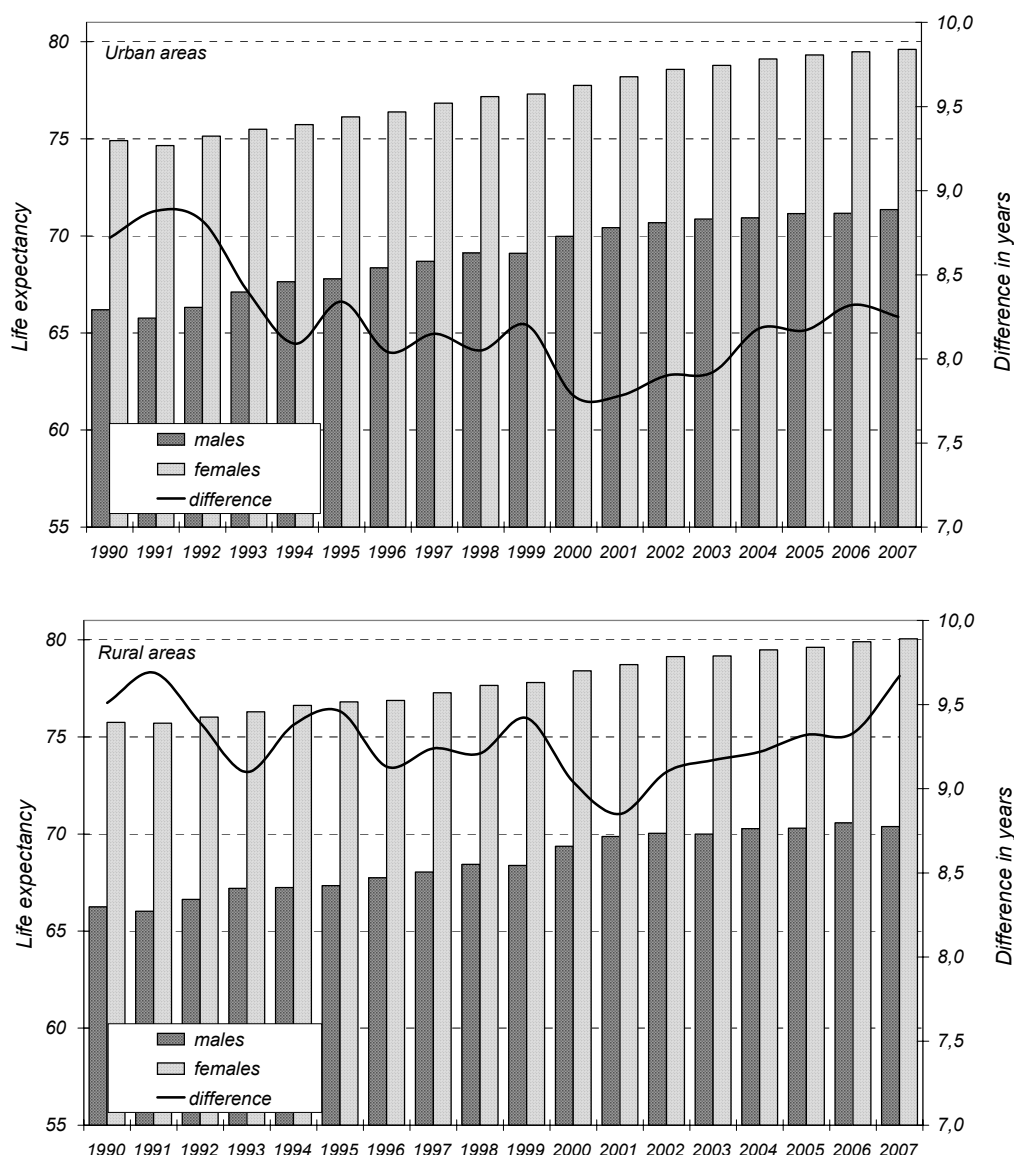
In 2007, the life expectancy for males living in urban areas was 71.4 years which is a year longer than for males in the rural areas. Statistics for females presented an opposite trend – females in the rural areas lived 80.1 years which is 0.4 year longer than in urban areas.

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<sup>1</sup> All of life expectancy parameters for the years 1990-1994 presented in this publication were calculated according to the definition of birth and death, being in force from 1994

Such relations were observed as recently as the 90s. For over 20 years both males and females living in the rural areas have lived longer than inhabitants of the urban areas. Also characteristic for the 90s was the decreasing of variance between the life expectancy for men and women (Fig. 1). However, starting from 2002 the difference more profound. Nowadays females in urban areas live 8.2 years longer than males (in 1991 – almost 9; in 2001 – 7.8) while in the rural areas the difference is 9.7 years (in 1991 – 9.7; in 2001 – 8.9).

**Fig. 1. Life expectancy by sex in Poland in 1990-2007**



There is still a large gender gap in terms of life expectancy. In the łódzkie voivodship (district containing Łódź) the life expectancy for males is the shortest in Poland; in 2007 it amounted to 68.7 years. It is over above 4 years shorter than in the podkarpackie (Rzeszów) voivodship which for many years has been the leading voivodship with respect to longevity. Difference of life expectancy for females in the voivodship cross-section is smaller – the maximum

age difference is 2.2 years. The district with the shortest female lifespans are the łódzkie and śląskie (Katowice) voivodships with 78.7 years and 78.8 respectively. The districts with the longest female lifespans are the podkarpackie and podlaskie (Białystok) voivodships, both with an average lifespan of 80.9 years. At least 80 years of age is reached by women living in małopolskie (Krakow), świętokrzyskie (Kielce), mazowieckie (Warsaw), lubelskie (Lublin) and opolskie (Opole) voivodships.

### **3. Changes in the life expectancy in the years 1950-2007**

Directly after the second World War the mortality in Poland was very high. In 1950 the life expectancy for male was slightly above 56 years, while for female it was almost 62 years (Table 1). In the 50s Poland experienced a sharp drop in the mortality rates and consequently a significant growth of life expectancy parameters. This positive tendency continued also in the next decade although its progress was much slower. Over a period of the next 20 years (during the 70s and 80s) the life expectancy for men hardly changed – although some drops were recorded periodically – while life expectancy for women increased by a mere 3 years.

The decade of the 90s brought a change of this negative tendency while the year 1991 was the lowest in the analyzed period. Since that time until the present moment life expectancy expanded by slightly more than 5 years for males and by 4.7 years for females (Fig. 2). Such a significant growth was achieved thanks to crucial progress in lowering the mortality both for men and women and particularly by strengthening the present tendency of diminishing the infant mortality. Currently, males in Poland live 15 years longer than in the middle of the last century while women live 18 years longer. Beginning in 1992 a significant improvement of further life expectancy for 45 year-old men was observed (Fig. 3). The negative trend of tendency of life expectancy among this group of people which had lasted over twenty years was reversed. In 2007 a male at working age had 28.8 years more to live which is 3.4 years more than his peer in 1950. The life expectancy of a 45-year-old Polish woman was 36.1 years in 2007 which means that in the discussed period the growth of the life expectancy parameters among women of this age was twice as high as among men (6.9 years).

The expansion of life expectancy for elderly males observed in the 1950s soon became inhibited in the 60s. The renewed growth was observed from the middle of the 80s. Thus in the years 1950-2007 life expectancy for a 60-year-old man expanded by only 3 years (to 17.7 years) and for a 75-year-old man by 2.2 years (to 9.1 years). Among women of the same age a permanent improvement of life expectancy parameters was noticed (Fig. 4, Fig. 5). Life expectancy of a 60-year-old woman expanded in the discussed case by 5.9 years (to 22.9 years) while that of a 75-year-old woman increased by 3.6 years (to 11.4 years).

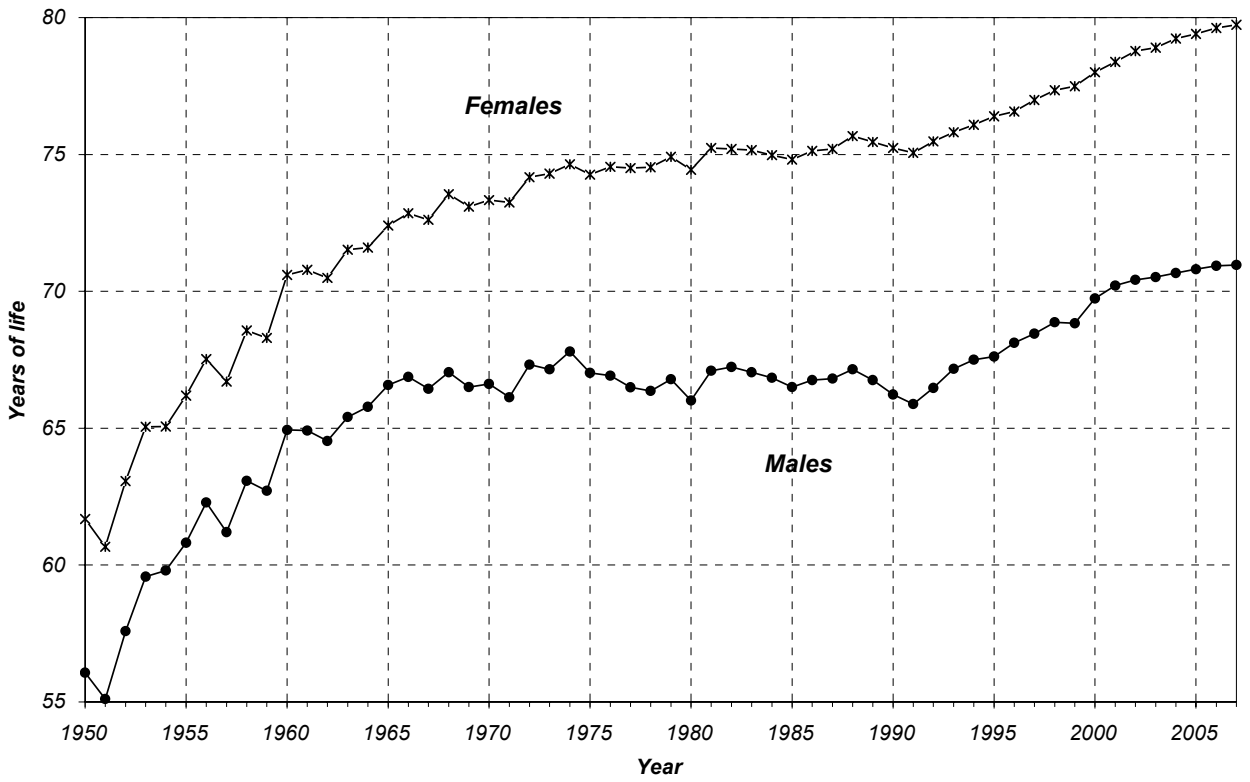


Table 1. Life expectancy by age<sup>2</sup> in Poland in 1950-2007

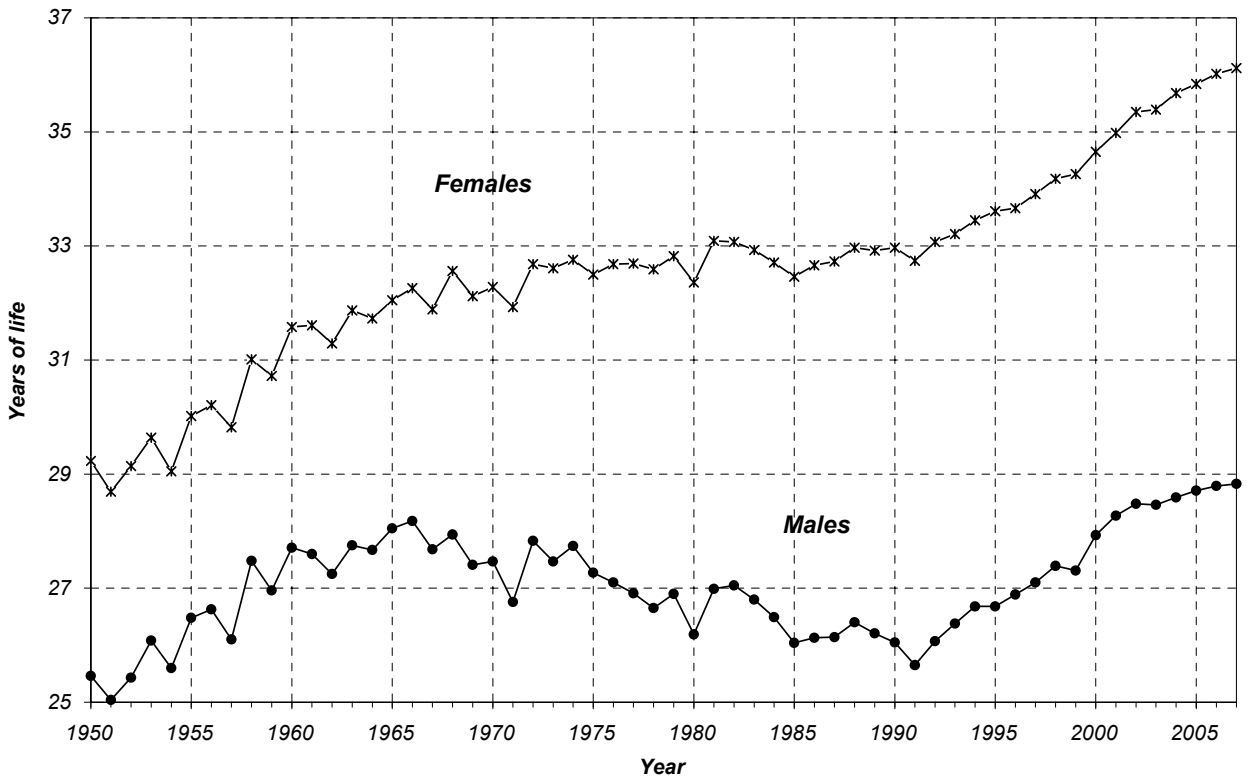
Years	Males						Females					
	by age											
	0	15	30	45	60	75	0	15	30	45	60	75
1950	56,07	51,04	38,12	25,46	14,55	6,92	61,68	55,66	42,32	29,23	17,05	7,80
1951	55,11	50,61	37,72	25,04	14,18	6,52	60,67	55,14	41,86	28,69	16,56	7,49
1952	57,59	51,28	38,21	25,43	14,41	6,76	63,07	55,84	42,39	29,14	16,91	7,67
1953	59,58	52,71	39,28	26,08	14,75	6,87	65,05	57,16	43,20	29,64	17,19	7,78
1954	59,80	52,40	38,84	25,60	14,17	6,25	65,06	56,67	42,67	29,05	16,57	7,19
1955	60,82	53,34	39,73	26,48	15,09	7,24	66,19	57,76	43,68	30,02	17,46	8,13
1956	62,29	53,67	39,98	26,63	15,09	7,14	67,52	58,09	43,94	30,21	17,56	7,88
1957	61,20	53,04	39,39	26,10	14,55	6,84	66,70	57,69	43,54	29,82	17,17	7,62
1958	63,08	54,58	40,85	27,48	15,76	7,47	68,57	59,11	44,84	31,01	18,20	8,22
1959	62,71	54,04	40,31	26,96	15,23	7,05	68,30	58,88	44,57	30,72	17,90	7,92
1960	64,94	54,96	41,14	27,71	15,88	7,53	70,60	59,88	45,52	31,58	18,70	8,58
1961	64,91	54,77	41,03	27,60	15,80	7,67	70,78	59,98	45,58	31,61	18,72	8,74
1962	64,53	54,43	40,64	27,25	15,42	7,26	70,49	59,66	45,26	31,29	18,39	8,40
1963	65,41	54,97	41,15	27,75	15,90	7,50	71,52	60,28	45,83	31,87	18,94	8,81
1964	65,78	55,10	41,15	27,67	15,66	7,38	71,60	60,27	45,78	31,73	18,74	8,55
1965	66,58	55,48	41,52	28,05	16,05	7,68	72,40	60,64	46,13	32,05	19,04	8,77
1966	66,87	55,56	41,62	28,18	16,17	7,75	72,85	60,88	46,36	32,26	19,25	8,93
1967	66,44	55,05	41,09	27,68	15,78	7,41	72,61	60,60	46,04	31,89	18,85	8,47
1968	67,04	55,27	41,36	27,94	16,08	7,93	73,55	61,26	46,71	32,56	19,55	9,35
1969	66,50	54,78	40,82	27,41	15,62	7,59	73,09	60,82	46,26	32,12	19,15	8,91
1970	66,62	54,81	40,87	27,47	15,68	7,60	73,33	61,01	46,45	32,28	19,23	8,90
1971	66,13	53,98	40,09	26,76	14,97	6,82	73,25	60,63	46,08	31,93	18,87	8,51
1972	67,32	55,11	41,19	27,83	16,03	7,58	74,17	61,46	46,88	32,68	19,60	8,96
1973	67,15	54,75	40,82	27,47	15,76	7,32	74,30	61,40	46,82	32,61	19,52	8,89
1974	67,80	55,15	41,14	27,74	16,02	7,51	74,64	61,58	46,97	32,76	19,66	8,99
1975	67,02	54,50	40,58	27,27	15,72	7,24	74,26	61,32	46,73	32,50	19,43	8,72
1976	66,92	54,27	40,30	27,10	15,69	7,34	74,55	61,50	46,89	32,68	19,62	8,96
1977	66,49	53,93	40,05	26,91	15,63	7,20	74,50	61,50	46,91	32,69	19,67	8,97
1978	66,36	53,65	39,75	26,65	15,45	7,07	74,53	61,38	46,79	32,59	19,56	8,83
1979	66,79	53,95	40,05	26,90	15,72	7,30	74,91	61,64	47,05	32,82	19,80	9,06
1980	66,01	53,12	39,24	26,19	15,18	6,92	74,44	61,18	46,53	32,36	19,38	8,76
1981	67,10	54,18	40,26	26,99	15,79	7,49	75,24	61,92	47,30	33,09	20,07	9,41
1982	67,24	54,28	40,34	27,05	15,83	7,47	75,20	61,92	47,31	33,07	20,07	9,40
1983	67,04	53,97	40,04	26,80	15,67	7,35	75,16	61,77	47,15	32,93	19,92	9,27
1984	66,84	53,67	39,66	26,49	15,54	7,30	74,97	61,54	46,90	32,71	19,70	9,10
1985	66,50	53,26	39,21	26,04	15,14	7,04	74,81	61,31	46,65	32,46	19,49	8,98
1986	66,76	53,42	39,35	26,13	15,25	7,26	75,13	61,54	46,88	32,66	19,69	9,17
1987	66,81	53,48	39,38	26,14	15,27	7,31	75,20	61,59	46,92	32,73	19,77	9,26
1988	67,15	53,74	39,62	26,40	15,47	7,54	75,67	61,87	47,19	32,97	20,08	9,47
1989	66,76	53,33	39,34	26,21	15,42	7,55	75,45	61,79	47,13	32,92	19,92	9,45
1990	66,23	53,07	39,11	26,05	15,33	7,51	75,24	61,84	47,16	32,97	19,96	9,46
1991	65,88	52,59	38,64	25,65	15,12	7,42	75,06	61,56	46,90	32,74	19,78	9,27
1992	66,47	53,10	39,10	26,07	15,43	7,68	75,48	61,94	47,26	33,07	20,06	9,47
1993	67,17	53,69	39,58	26,38	15,50	7,67	75,81	62,15	47,46	33,21	20,13	9,44
1994	67,50	53,93	39,85	26,68	15,77	7,83	76,08	62,40	47,71	33,45	20,36	9,61
1995	67,62	53,92	39,81	26,68	15,84	7,92	76,39	62,56	47,87	33,61	20,52	9,73
1996	68,12	54,33	40,18	26,89	15,93	7,94	76,57	62,66	47,95	33,66	20,52	9,65
1997	68,45	54,46	40,35	27,10	16,13	8,15	76,99	62,94	48,23	33,91	20,80	9,87
1998	68,87	54,83	40,69	27,39	16,38	8,42	77,34	63,22	48,51	34,18	21,04	10,03
1999	68,83	54,76	40,62	27,31	16,29	8,32	77,49	63,31	48,60	34,26	21,13	10,09
2000	69,74	55,59	41,36	27,93	16,72	8,57	78,00	63,76	49,03	34,65	21,51	10,36
2001	70,21	56,02	41,77	28,27	17,03	8,81	78,38	64,12	49,38	34,98	21,80	10,55
2002	70,42	56,23	42,01	28,48	17,19	8,82	78,78	64,51	49,77	35,35	22,15	10,77
2003	70,52	56,28	42,00	28,46	17,13	8,67	78,90	64,57	49,83	35,39	22,17	10,77
2004	70,67	56,40	42,12	28,59	17,38	8,91	79,23	64,88	50,13	35,68	22,48	11,02
2005	70,81	56,49	42,23	28,71	17,51	9,01	79,40	65,04	50,27	35,84	22,65	11,15
2006	70,93	56,61	42,31	28,79	17,65	9,09	79,62	65,22	50,45	36,02	22,84	11,31
2007	70,96	56,62	42,35	28,83	17,69	9,14	79,74	65,33	50,58	36,12	22,94	11,41

<sup>2</sup> Life tables for 1990-1994 have been re-calculated according to the birth and infant death definition implemented since 1994

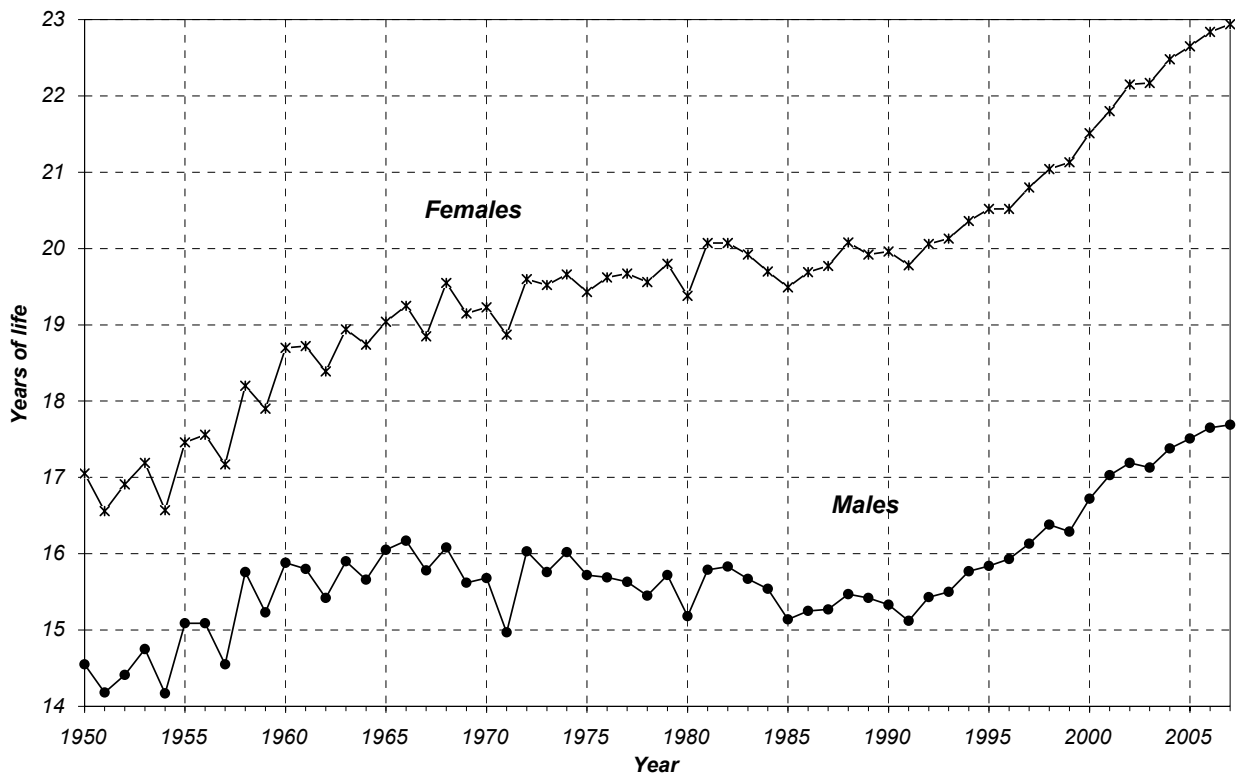
**Fig. 2. Life expectancy in Poland**



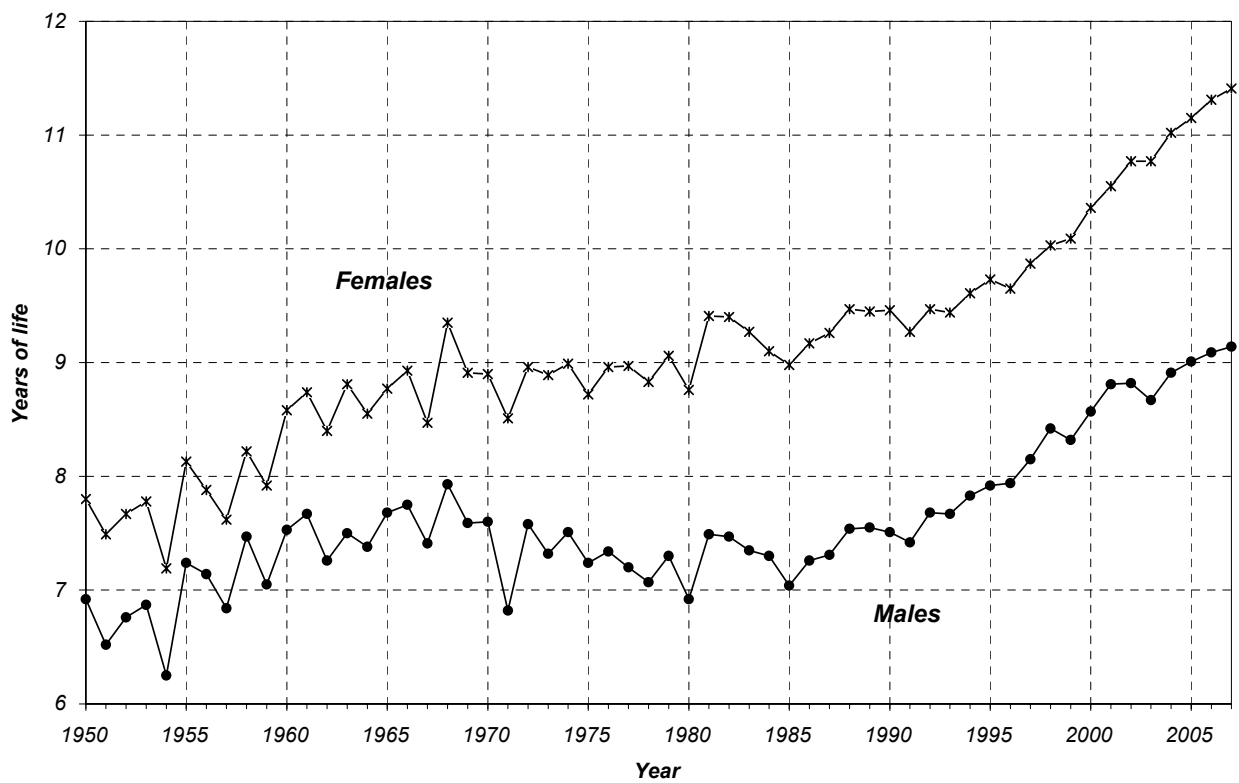
**Fig. 3. Life expectancy at age 45**



**Fig. 4. Life expectancy at age 60**



**Fig. 5. Life expectancy at age 75**



#### 4. Spatial diversity of life expectancy

##### 4.1. Regions (NUTS 1)

Among regions established the southern and the eastern regions (Fig. 6) as the only ones in which the life expectancy for males in 2007 reached 71.5 years (Table 2). Among females the leaders are the inhabitants of the eastern region who lived over 80 years and around a year longer than the inhabitant of the remaining regions.

In urban areas men live on average one year longer than in the rural areas. In the central and the eastern regions this difference is around 2 years. The only region in which life expectancy for men is longer in the rural areas than in the urban areas (by 0.7 year) is the southern region. In this region women from the rural areas also live much longer than urban areas dwellers (1.4 year). In the central, eastern and south-western regions this advantage is small (0.3 year) while in the north-western and northern regions, the parameters of life expectancy for women in urban areas are more advantageous than in the rural areas.

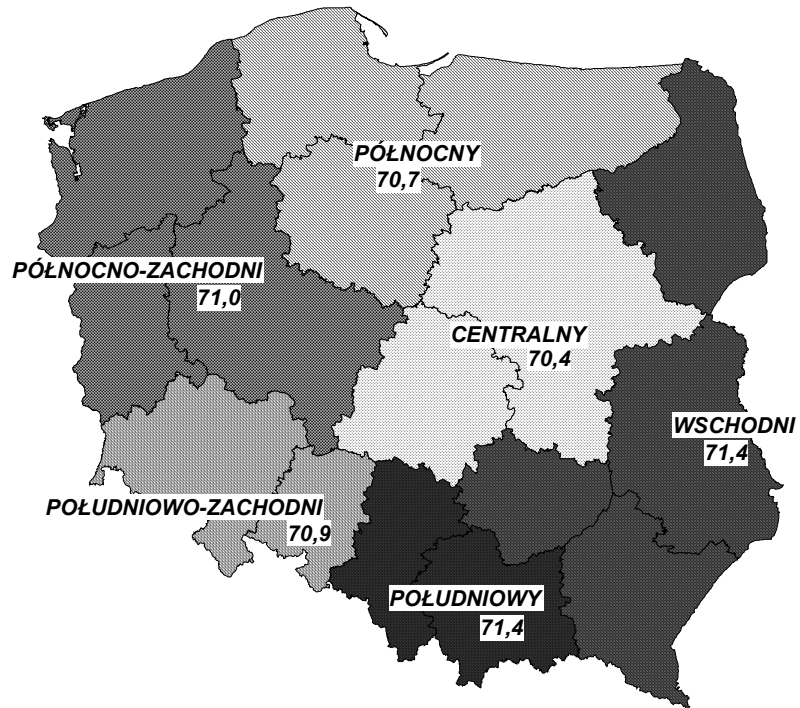
**Table 2. Life expectancy in Poland by regions (NUTS 1) in 2007**

Regions	Males					Females				
	by age									
	0	15	30	45	60	0	15	30	45	60
<b>Total</b>	71,0	56,6	42,4	28,8	17,7	79,7	65,3	50,6	36,1	22,9
Centralny	70,4	55,9	41,7	28,4	17,8	79,8	65,4	50,6	36,2	23,1
Południowy	71,4	57,0	42,7	29,0	17,7	79,5	65,2	50,4	35,9	22,8
Wschodni	71,4	57,0	42,7	29,3	17,9	80,6	66,2	51,5	36,9	23,5
Północno-zachodni	71,0	56,8	42,4	28,8	17,5	79,4	65,0	50,2	35,8	22,6
Południowo-zachodni	70,9	56,6	42,3	28,7	17,6	79,3	64,9	50,2	35,7	22,6
Północny	70,7	56,4	42,2	28,6	17,5	79,5	65,1	50,3	35,8	22,8
<b>Urban areas</b>	71,4	57,0	42,7	29,1	17,9	79,6	65,2	50,4	36,0	22,9
Centralny	71,0	56,5	42,3	28,9	18,1	79,8	65,2	50,5	36,1	23,1
Południowy	71,2	56,9	42,5	28,8	17,7	79,1	64,8	50,0	35,6	22,6
Wschodni	72,5	58,0	43,7	30,1	18,6	80,5	66,1	51,4	36,9	23,5
Północno-zachodni	71,6	57,3	42,9	29,1	17,8	79,4	65,0	50,3	35,8	22,7
Południowo-zachodni	71,0	56,7	42,4	28,9	17,8	79,2	64,8	50,1	35,7	22,7
Północny	71,2	56,9	42,5	29,0	17,8	79,6	65,2	50,5	36,0	23,0
<b>Rural areas</b>	70,4	56,1	41,9	28,5	17,4	80,1	65,7	50,9	36,4	23,0
Centralny	69,2	54,9	40,8	27,7	17,4	80,1	65,7	51,0	36,5	23,2
Południowy	71,8	57,4	43,1	29,4	17,8	80,5	66,1	51,2	36,7	23,1
Wschodni	70,5	56,2	42,1	28,6	17,6	80,8	66,4	51,6	37,0	23,5
Północno-zachodni	70,2	55,9	41,8	28,3	17,1	79,3	65,0	50,2	35,7	22,5
Południowo-zachodni	70,7	56,3	42,0	28,4	17,1	79,5	65,1	50,3	35,9	22,6
Północny	69,9	55,6	41,5	28,1	16,8	79,2	64,7	50,0	35,6	22,5

**Fig. 6. Life expectancy in Poland by regions (NUTS 1) in 2007**

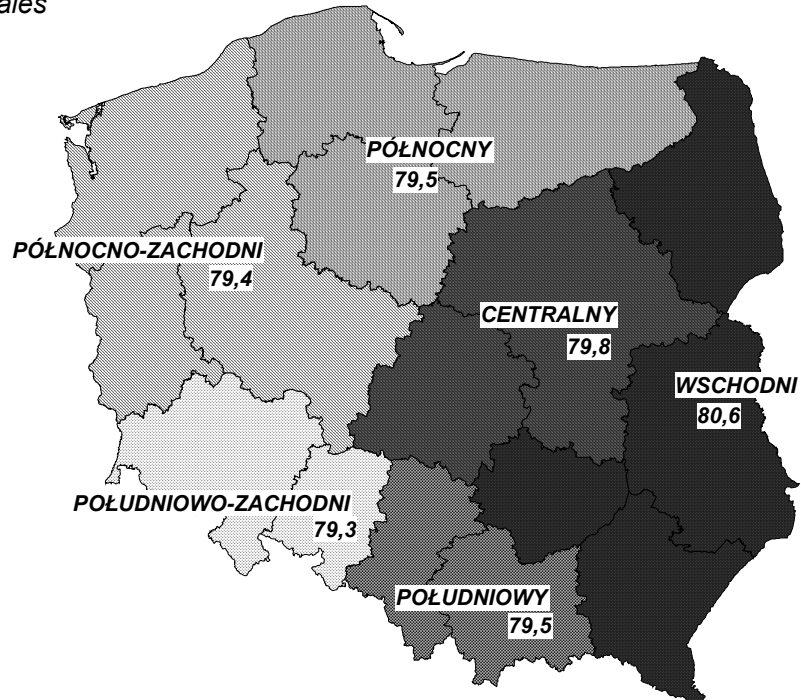
**Mężczyźni**

Males



**Kobiety**

Females



#### **4.2. Voivodships (NUTS 2)**

*In the last decade of the last century Poland there was significant progress in expanding the life expectancy in all voivodships. This positive trend still continues, particularly for males for whom life expectancy during the years 1990-2007 lengthened by over 5 years in as many as five voivodship (Table 3). In this period the highest growth, 5.6 years, was observed in the opolskie, wielkopolskie, pomorskie and zachodnio-pomorskie voivodships, while the łódzkie and lubelskie ones had the smallest growth with only 3.4 years. For females the growth of life expectancy parameters by at least 5 years was observed only in the opolskie voivodship. The smallest improvement of 3.7 years was observed in the lubelskie voivodship.*

*In Poland there is a great diversity of life expectancy in the voivodships cross-section. In 2007 the span between the highest and the lowest parameter among 16 voivodships was over 4 years for males. The shortest life expectancy was observed among men living in the łódzkie voivodship and was 68.7 years and the longest was in the podkarpackie one with 73 years.*

*Among females the diversity is smaller and amounts to 2.2 years. Women in the łódzkie voivodship have the shortest life expectancy (78.7 years). On the other hand, the following voivodships: podkarpackie, podlaskie, małopolskie, świętokrzyskie, mazowieckie and lubelskie enjoy the most advantageous life expectancy parameters, exemplified by the fact that in these regions women on average live over 80 years old. Generally it can be stated that in all voivodships in south-eastern and eastern Poland the life expectancy for women is higher than the national average (Fig. 7).*

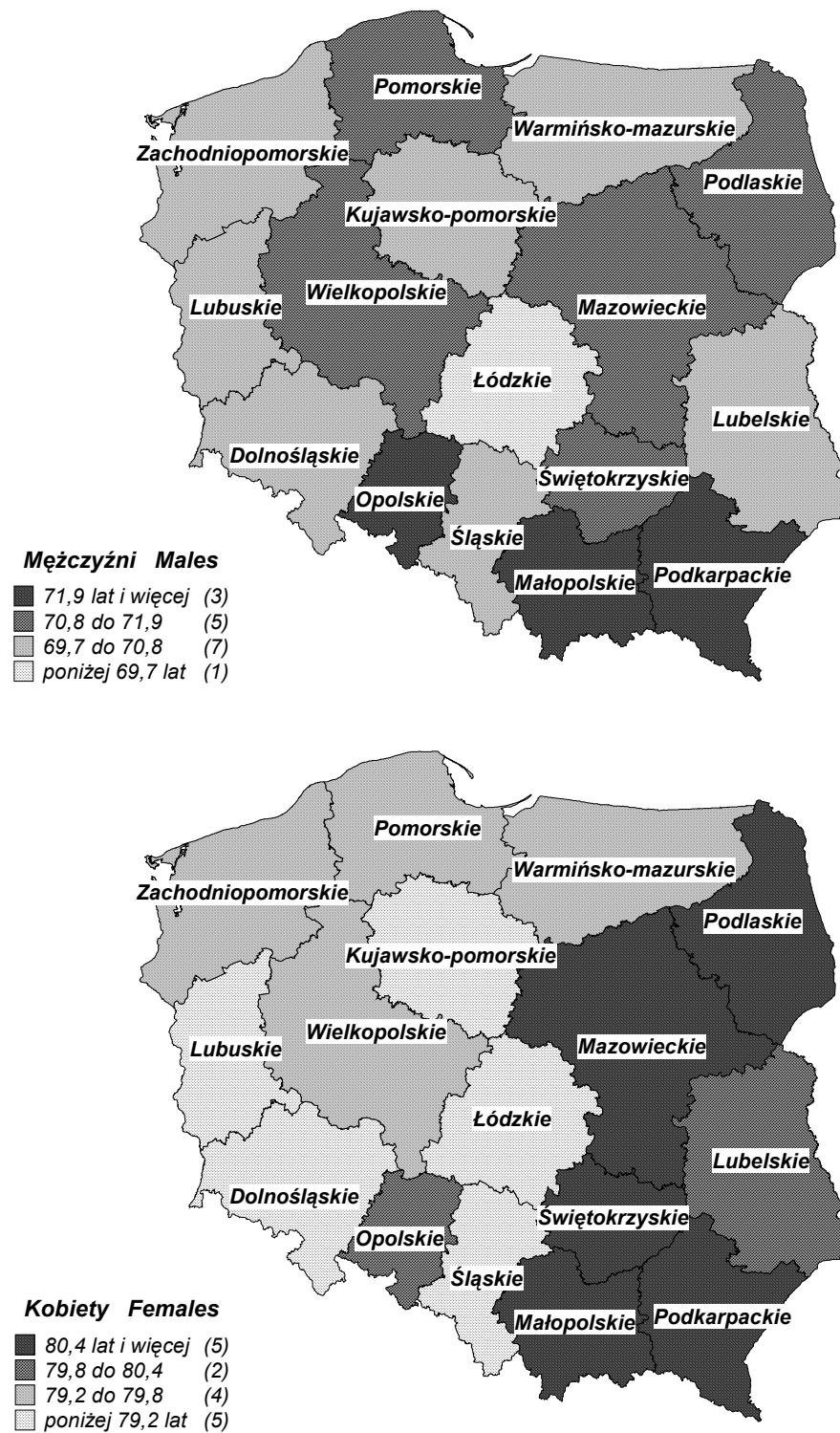
*Last year the difference between voivodships with extreme values of life expectancy parameters for men living in urban areas was 5 years which is almost one and a half years longer than inhabitants of the rural areas (3.7 years). For women this difference was 2.7 in urban areas and 2.6 in the rural areas.*

*In 2007 the least optimistic situation was that of men living in the rural areas. In 10 voivodships – the values of life expectancy parameters were lower than the rural areaswide average for the rural areas (Fig. 8.). The biggest differences – over 1 year were exceeded in voivodships of łódzkie, warmińsko-mazurskie, lubelskie, lubuskie for men and for women in voivodships of warmińsko-mazurskie and lubuskie.*

*It should be noted that during recent years in some voivodships the annual growth of life expectancy was negative. These are only periodical fluctuations however and their volume does not exceed 0.1 – 0.2 years.*

*Against the background of a recent general tendency in Poland of increasingly longer life expectancy of men living in urban areas than those living in the rural areas, śląskie voivodshipis*

Fig. 7. Life expectancy in Poland by voivodships (NUTS 2) in 2007



**Table 3. Life expectancy by voivodships (NUTS 2)  
in 1990<sup>3</sup>, 1995, 2000 and 2004-2007**

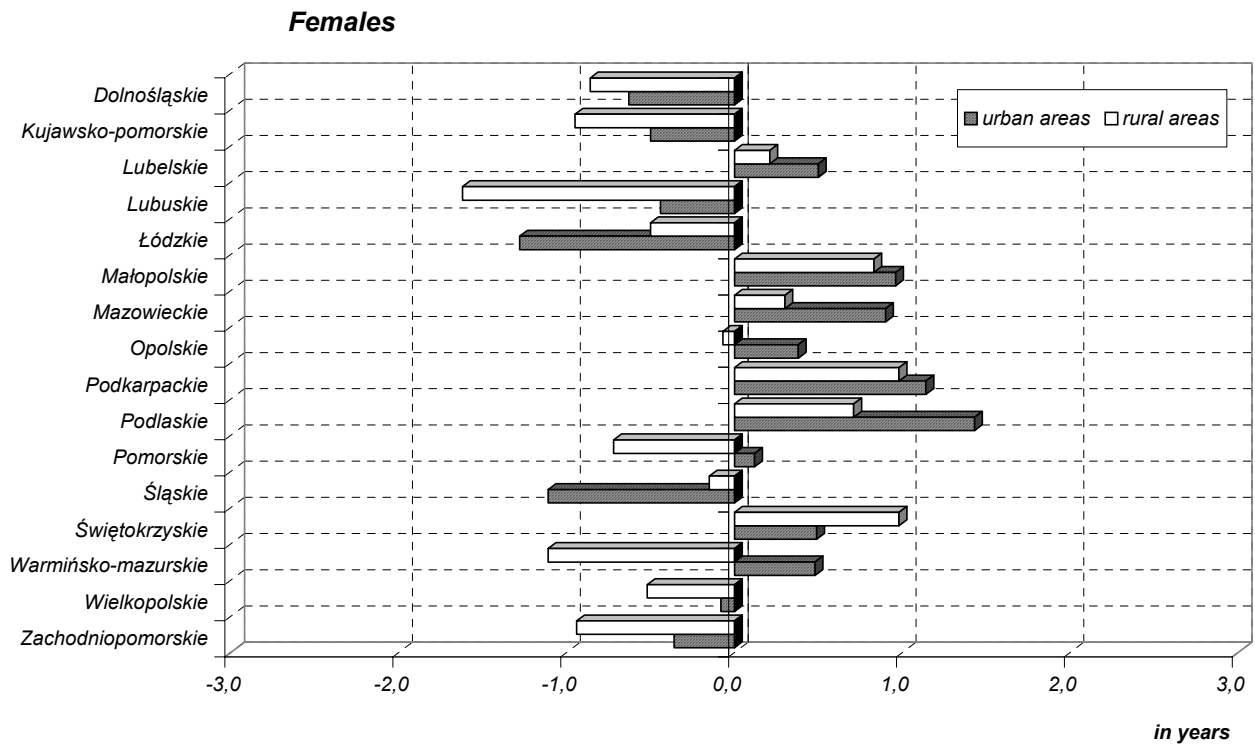
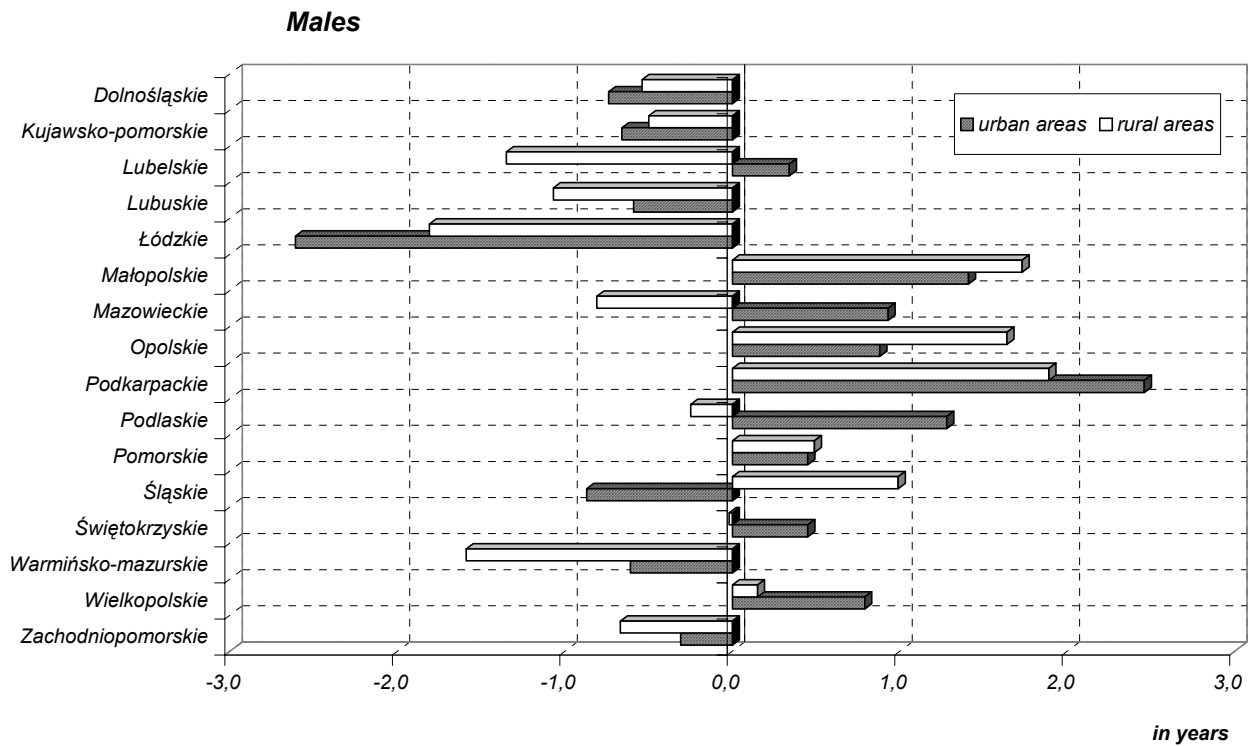
Voivodships	Males							Females						
	1990	1995	2000	2004	2005	2006	2007	1990	1995	2000	2004	2005	2006	2007
<b>Total</b>														
Dolnośląskie	65,74	66,96	68,84	70,14	70,39	70,34	70,42	74,67	75,73	77,59	78,58	78,85	79,05	79,04
Kujawsko-pomorskie	65,66	67,40	69,63	70,58	70,59	70,63	70,39	74,55	75,89	77,51	78,66	79,10	79,25	79,14
Lubelskie	66,76	67,53	69,08	70,00	69,89	70,31	70,16	76,43	77,16	78,49	79,49	79,87	80,19	80,16
Lubuskie	65,18	67,07	69,20	70,06	70,19	70,38	70,26	74,63	75,64	77,43	78,58	78,98	78,91	78,93
Łódzkie	65,30	66,01	67,90	69,10	68,64	68,47	68,65	74,48	75,61	77,17	78,48	78,30	78,55	78,68
Małopolskie	67,95	69,18	71,31	72,02	72,27	72,49	72,45	76,27	77,04	78,81	80,29	80,17	80,50	80,72
Mazowieckie	66,56	67,70	69,84	71,01	71,06	71,41	71,28	75,85	76,73	78,60	79,87	80,18	80,09	80,44
Opolskie	66,50	68,30	70,74	71,85	71,85	71,84	72,13	74,86	76,39	78,17	79,67	79,51	79,90	80,00
Podkarpackie	68,03	69,09	71,20	71,76	72,04	72,56	72,87	76,41	77,62	79,02	80,20	80,26	80,82	80,90
Podlaskie	67,10	67,91	70,49	71,23	71,04	71,00	71,54	76,76	77,58	79,14	80,07	80,41	80,53	80,88
Pomorskie	65,96	68,53	70,56	71,42	71,69	71,65	71,55	74,68	76,28	78,06	79,44	79,76	79,83	79,59
Śląskie	65,77	67,49	69,55	70,20	70,52	70,50	70,66	74,21	75,68	77,18	78,43	78,45	78,77	78,77
Świętokrzyskie	66,69	68,16	70,46	70,86	70,64	70,91	71,00	76,04	77,15	78,58	80,27	80,23	80,31	80,61
Warmińsko-mazurskie	65,35	66,85	69,24	69,71	69,96	70,07	69,96	75,24	76,80	78,60	79,06	79,40	79,48	79,66
Wielkopolskie	65,82	67,39	69,66	70,80	71,32	71,35	71,42	74,89	76,24	77,52	78,92	79,20	79,25	79,52
Zachodniopomorskie	65,07	66,53	69,00	70,26	70,61	70,52	70,64	74,52	75,82	77,45	78,52	78,76	79,08	79,24
<b>Urban areas</b>														
Dolnośląskie	65,90	67,29	69,21	70,36	70,68	70,62	70,62	74,51	75,78	77,50	78,64	79,08	79,03	78,98
Kujawsko-pomorskie	65,91	67,67	70,01	70,88	71,28	71,09	70,70	74,55	75,77	77,46	78,77	79,39	79,23	79,11
Lubelskie	67,09	68,19	70,03	71,16	71,00	71,22	71,70	76,37	77,06	78,49	79,79	79,89	80,21	80,11
Lubuskie	65,81	67,11	69,71	70,48	70,58	70,81	70,77	74,61	75,59	77,23	78,58	79,15	78,92	79,17
Łódzkie	64,94	65,87	67,77	69,20	68,68	68,24	68,75	74,04	75,11	76,66	78,28	78,20	78,07	78,33
Małopolskie	67,70	69,45	71,55	72,37	72,58	72,77	72,77	75,94	76,73	78,61	80,17	79,98	80,43	80,57
Mazowieckie	66,75	68,28	70,46	71,73	71,82	72,19	72,29	75,67	76,64	78,45	79,90	80,32	80,15	80,51
Opolskie	67,04	68,26	70,67	71,84	72,25	71,56	72,24	74,82	76,44	78,31	79,26	79,12	79,64	79,99
Podkarpackie	68,32	69,17	71,82	72,58	72,55	73,25	73,82	76,51	77,14	78,70	80,07	80,18	80,74	80,75
Podlaskie	66,50	67,97	70,91	71,85	71,84	71,64	72,64	76,44	77,09	78,84	79,90	80,42	80,77	81,04
Pomorskie	66,18	68,86	71,13	71,67	72,13	72,19	71,81	74,76	76,29	77,95	79,53	79,76	79,84	79,73
Śląskie	65,44	67,44	69,43	69,95	70,27	70,14	70,49	73,85	75,49	77,00	78,13	78,17	78,53	78,50
Świętokrzyskie	67,16	68,51	70,56	71,45	71,15	71,68	71,81	76,07	76,89	78,47	80,40	80,08	80,16	80,10
Warmińsko-mazurskie	66,03	67,27	70,25	70,54	70,73	70,82	70,75	75,34	76,85	78,63	79,48	79,57	79,90	80,09
Wielkopolskie	66,02	67,55	69,96	70,95	71,93	71,63	72,15	74,81	76,19	77,51	78,97	79,27	79,25	79,53
Zachodniopomorskie	65,89	67,47	69,45	70,77	71,30	71,09	71,05	74,44	76,07	77,44	78,69	78,90	79,23	79,25
<b>Rural areas</b>														
Dolnośląskie	65,34	66,05	67,93	69,51	69,61	69,69	69,84	74,97	75,69	77,77	78,46	78,33	79,17	79,19
Kujawsko-pomorskie	65,32	66,89	69,04	70,15	69,58	69,91	69,88	74,59	76,13	77,58	78,58	78,74	79,25	79,10
Lubelskie	66,40	66,95	68,37	69,11	69,14	69,58	69,03	76,48	77,29	78,54	79,42	79,96	80,21	80,26
Lubuskie	64,01	66,93	68,33	69,35	69,54	69,59	69,31	74,62	75,69	77,77	78,57	78,70	78,85	78,43
Łódzkie	65,85	66,21	68,20	68,92	68,66	68,90	68,57	75,34	76,57	78,15	78,99	78,69	79,61	79,55
Małopolskie	68,21	68,98	71,04	71,69	71,96	72,21	72,11	76,66	77,33	79,05	80,46	80,41	80,63	80,88
Mazowieckie	66,24	66,73	68,80	69,78	69,77	70,06	69,57	76,24	77,01	78,92	79,90	80,10	80,08	80,35
Opolskie	65,88	68,30	70,78	71,80	71,57	72,07	72,02	74,93	76,35	77,97	79,99	79,89	80,15	79,98
Podkarpackie	67,79	69,03	70,81	71,25	71,75	72,11	72,27	76,37	77,87	79,22	80,29	80,42	80,85	81,03
Podlaskie	67,34	67,54	69,86	70,39	70,17	70,05	70,13	77,08	78,20	79,40	80,31	80,51	80,31	80,76
Pomorskie	65,49	67,70	69,26	70,73	70,67	70,48	70,87	74,66	76,16	78,30	79,11	79,72	79,74	79,33
Śląskie	67,03	67,77	70,10	71,14	71,52	71,93	71,37	75,70	76,41	77,94	79,62	79,63	79,83	79,90
Świętokrzyskie	66,22	67,94	70,31	70,40	70,21	70,29	70,36	75,92	77,28	78,73	80,15	80,41	80,44	81,03
Warmińsko-mazurskie	64,53	66,30	67,87	68,56	68,89	69,00	68,79	75,17	76,85	78,57	78,41	79,18	78,81	78,94
Wielkopolskie	65,58	67,16	69,31	70,59	70,54	70,96	70,53	75,08	76,36	77,56	78,85	79,09	79,22	79,53
Zachodniopomorskie	63,37	64,49	67,94	69,04	69,06	69,18	69,71	74,75	75,31	77,35	78,14	78,44	78,63	79,11

<sup>3</sup> With the birth and infant death definition used since 1994



**Fig. 8. Differences in life expectancy by voivodships (NUTS 2) in 2007**

(deviations around the national totals)

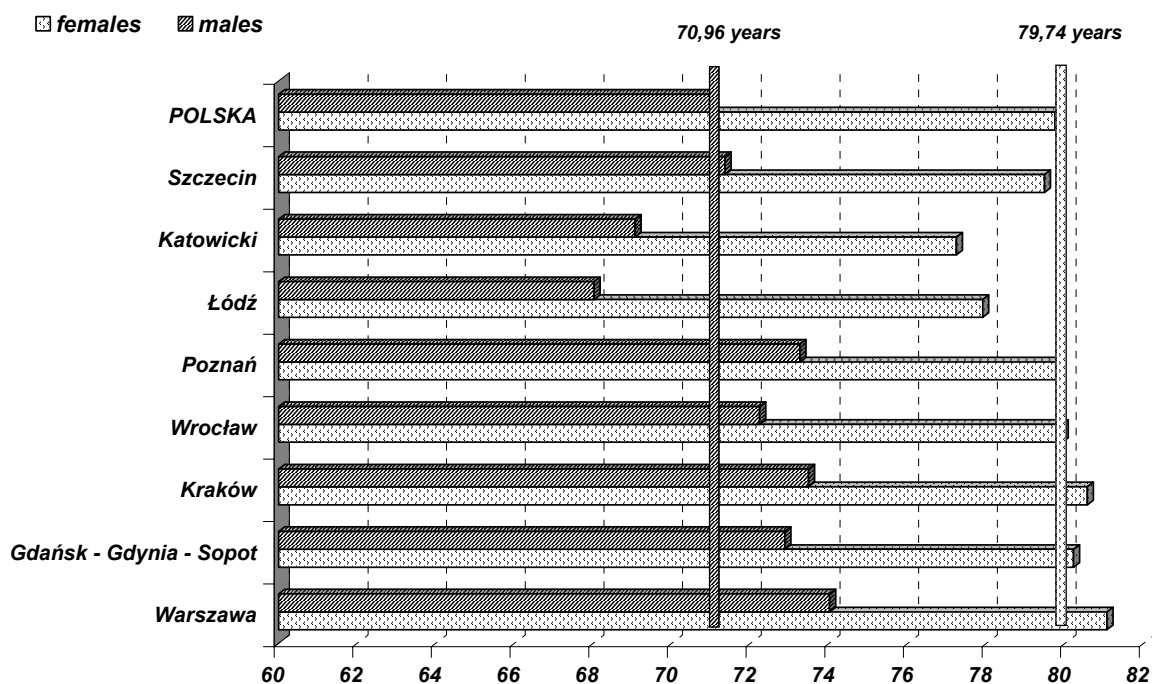


is standing out as the one where men in the rural areas in 2007 had life expectancy almost one year longer than in the urban areas. On the other hand, in case of life expectancy for females, the inhabitants of warmińsko-mazurskie voivodship stand out. In 2007 in this voivodship women in urban areas lived over a year longer than women in the rural areas while in others advantage in life expectancy is very small or even this rate is lower in the urban areas than in the rural areas. Excess mortality of males is clearly visible in all voivodships. Disproportions between life expectancy for males and females were bigger among rural areas dwellers and amounted from nearly 8 years in opolskie voivodship to over 11 years in the łódzkie and lubelskie voivodships. In urban areas the differences wavered between 7 years in the podkarpackie voivodship to 9.6 years in the łódzkie voivodship.

#### 4.3. Subregions (NUTS 3)

In 2007 the span between the extreme values of life expectancy parameters in 66 subregions was 6 years for males and 4 years for females. In twenty eight subregions life expectancy for men was higher than Poland's rural areaswide average, while for women in twenty seven subregions. The shortest life expectancy for men was in Łódź and in skierniewicki, piotrkowski and łódzki sub region (below 69 years), while women also in Łódź and katowicki subregion had an life expectancy below 78 years.

**Fig. 9. Life expectancy in 2007 in selected subregions (NUTS 3)**



*The difference between life expectancy for males and females – being 8.8 years for Poland – was exceeded in thirty regions. In as many as nine subregions life expectancy for women was at least 10 years longer than for men. The smallest diversity – 6.5 years was recorded in Poznań.*

*Specific attention should be paid to urban subregions, which comprise of over 6 million inhabitants (27% of the total urban population). These include: Cracow, Łódź, Poznań, Szczecin, Warsaw, Wrocław, Gdańsk-Gdynia-Sopot and katowicki subregion. Men lived longer than the national life expectancy in five subregions, and women experienced higher longevity in six ones (Fig. 9). Last year the most profitable parameters of life expectancy were recorded in Cracow and Warsaw (women above 80.5 years, men over 73.5 years). Against the background of those cities Łódź and katowicki subregion give a very weak performance. Life expectancy for males is shorter than national average by 2,9 and 1,9 years respectively, and for females by 1.8 and 2.5 years.*

## **5. International comparison**

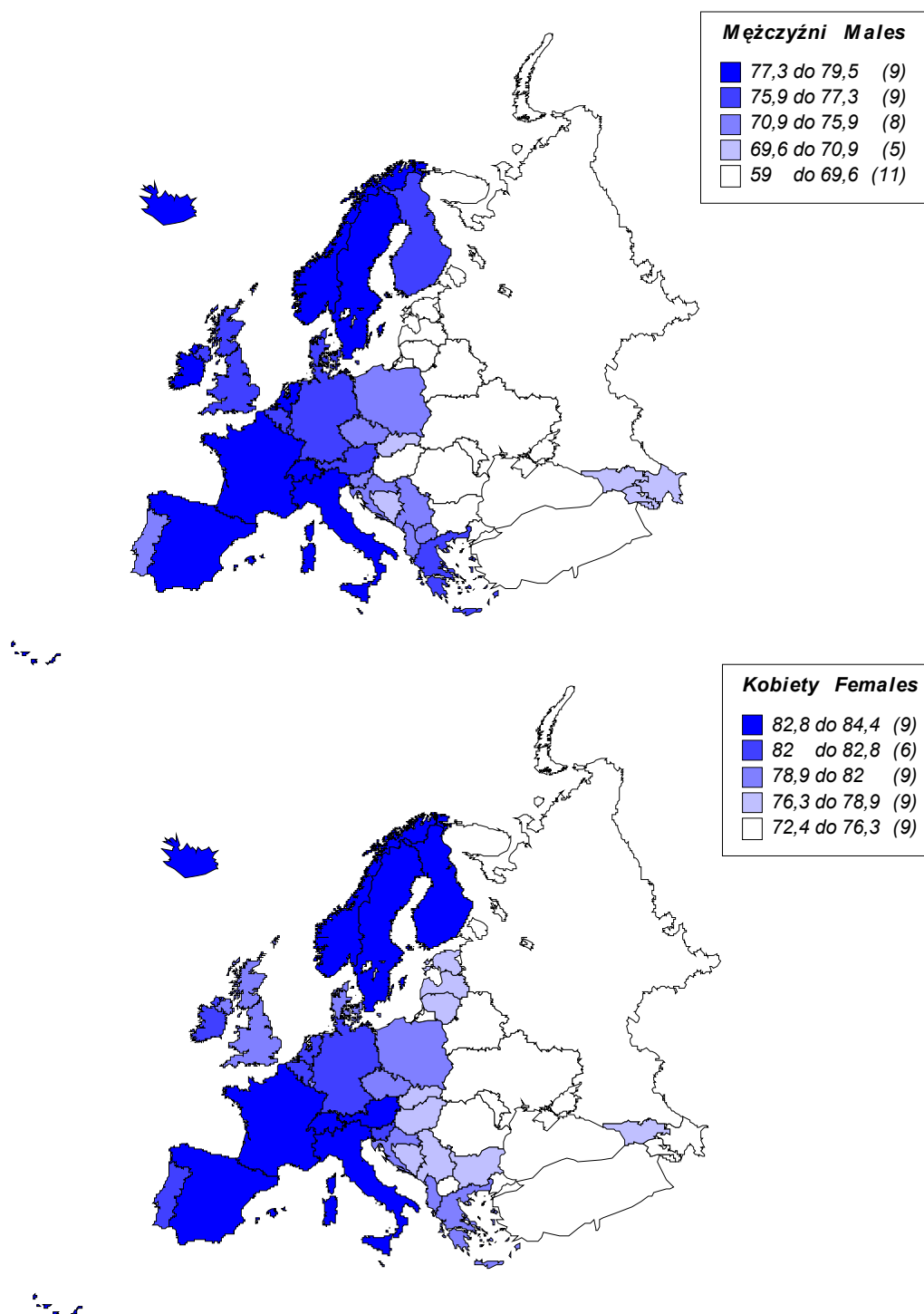
*Despite positive changes of life expectancy Poland still gives a weak performance against the background of other European countries. Life expectancy for Poles is shorter by a few years: for men by 8 years and for women by 4-5 years (Table 4). Among 45 countries Poland is ranked in the first thirty: men were 28<sup>th</sup> and women 24<sup>th</sup>.*

*In Europe there is a great diversity of average life expectancy (Fig. 10). In well-developed countries, situated mainly in the western part of Europe and in the Scandinavian countries people live a few years longer than in the Central Europe countries. In comparison with Eastern Europe countries this difference is even between ten and twenty years.*

*The longest life expectancy for males can be found in Iceland (79.5 years) and Switzerland (79.2 years) ; the shortest is in Russia – 59 years. Among females the longest living are French, Espaniol and Switzerland – over 84 years; the shortest living – Russians and Moldavians – less than 72,5 years.*

*Characteristic is the fact that in countries where life expectancy is relatively low the difference between life expectancy for men and women – apart from few exceptions – is very high (Fig. 11). Countries in which this span is the biggest (above 10 years) are the states of the former Soviet Union: Russia (13.4 years), Belarus (12.2), Lithuania (11.7), Ukraine (11.5), Estonia (11.2) and Latvia (11.8). Directly after those countries there is Poland and Greece (8.7) years. The difference is even several times higher than in countries with the smallest diversity of average life expectancy (below 4 years) which include Iceland and Cyprus.*

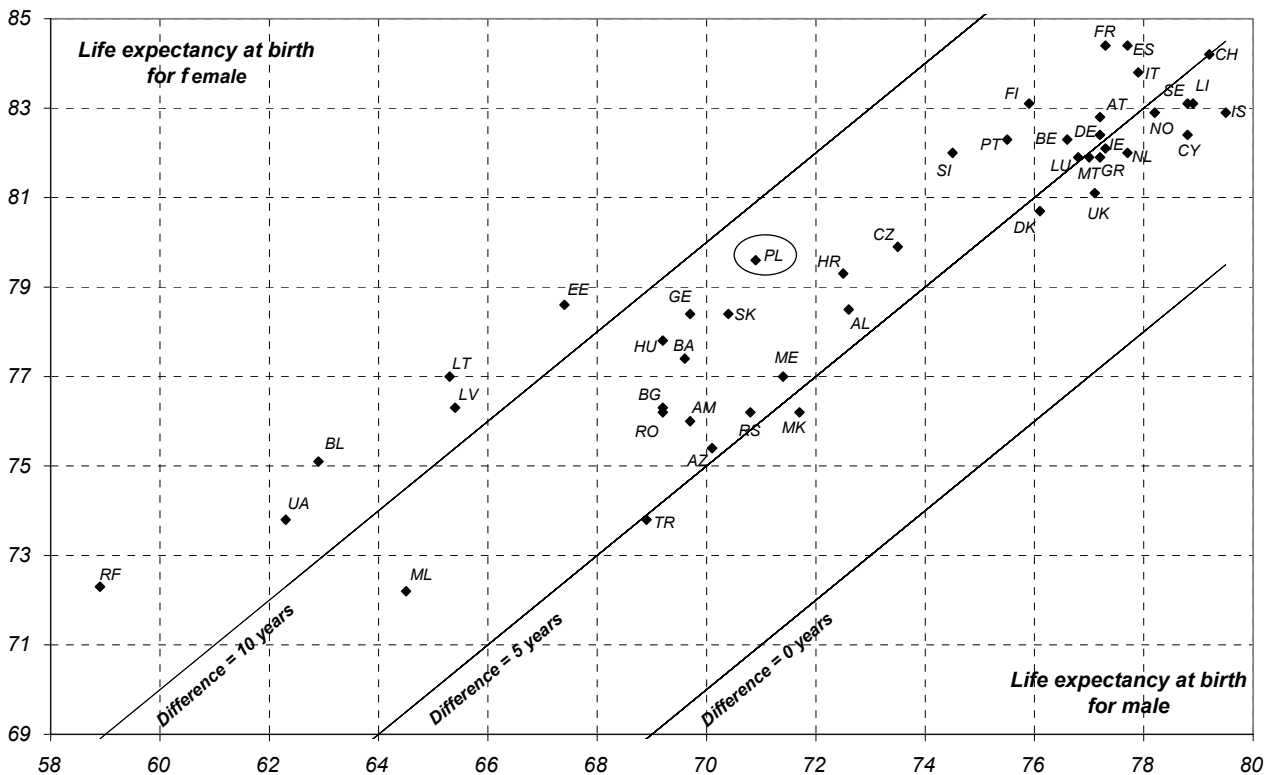
**Fig. 10. Life expectancy at birth in European countries**



**Table 4. Life expectancy in European countries<sup>4</sup>**

Country		Year	Males	Females	Difference
AL	Albania	2004	73,7	78,9	5,2
AM	Armenia	2006	69,7	76,0	6,3
AT	Austria	2006	77,2	82,8	5,6
AZ	Azerbejdżan	2006	70,1	75,4	5,3
BE	Belgia	2006	76,6	82,3	5,7
BL	Białoruś	2005	62,9	75,1	12,2
BA	Bośnia i Hercegowina	2005	69,6	77,4	7,8
BG	Bulgaria	2006	69,2	76,3	7,1
HR	Chorwacja	2006	72,5	79,3	6,8
CY	Cypr	2006	78,8	82,4	3,6
ME	Czarnogóra	2005	71,4	77,0	5,6
CZ	Czechy	2006	73,5	79,9	6,4
DK	Dania	2006	76,1	80,7	4,6
EE	Estonia	2006	67,4	78,6	11,2
FI	Finlandia	2006	75,9	83,1	7,2
FR	Francja	2006	77,3	84,4	7,1
GR	Grecja	2006	77,2	81,9	4,7
GE	Gruzja	2006	69,7	78,4	8,7
ES	Hiszpania	2006	77,7	84,4	6,7
IE	Irlandia	2006	77,3	82,1	4,8
IS	Islandia	2006	79,5	82,9	3,4
LI	Liechteinstein	2006	78,9	83,1	4,2
LT	Litwa	2006	65,3	77,0	11,7
LU	Luksemburg	2006	76,8	81,9	5,1
LV	Łotwa	2006	65,4	76,3	10,9
MK	Macedonia	2006	71,7	76,2	4,5
MT	Malta	2006	77,0	81,9	4,9
ML	Moldawia	2006	64,6	72,4	7,8
NL	Niderlandy	2006	77,7	82,0	4,3
DE	Niemcy	2006	77,2	82,4	5,2
NO	Norwegia	2006	78,2	82,9	4,7
PL	Polska	2006	70,9	79,6	8,7
PT	Portugalia	2006	75,5	82,3	6,8
RF	Rosja	2005	59,0	72,4	13,4
RO	Rumunia	2006	69,2	76,2	7,0
RS	Serbia	2006	70,8	76,2	5,4
SK	Słowacja	2006	70,4	78,4	8,0
SI	Słowenia	2006	74,5	82,0	7,5
CH	Szwajcaria	2006	79,2	84,2	5,0
SE	Szwecja	2006	78,8	83,1	4,3
TR	Turcja	2006	69,1	74,0	4,9
UA	Ukraina	2006	62,3	73,8	11,5
HU	Węgry	2006	69,2	77,8	8,6
UK	Wielka Brytania	2005	77,1	81,1	4,0
IT	Włochy	2004	77,9	83,8	5,9

<sup>4</sup> Source: <http://epp.eurostat.ec.europa.eu>, <http://w3.unece.org/pxweb/Dialog/>

**Fig. 11. Life expectancy at birth in European countries**

Note: Explanation of countries name in Table 4

It is worth stressing that among countries outside Europe only in Japan and Australia males live to 79 years of age so that they compare with the life expectancy of Iceland and Switzerland. However, among females the longest life expectancy is that of the Japanese – 86 years which is 1.5 years longer than European women which have even the most advantageous life expectancy parameters.

The inhabitants of Africa have the lowest life expectancy in the world. According to the WHO<sup>5</sup> data (June 2008) in Sierra Leone the life expectancy at birth for males was 39 years, and 42 years for females. For both Zambia and Niger, life expectancy only reached 42 years for men and 43 for women.

## 6. Mortality in Poland in 1980-2007

### 6.1. Mortality by age and selected groups causes in 1980-2007

In addition to information concerning the shape of the life expectancy of Polish women and men as well as conditions of changes in this respect, the results of mortality analysis are presented according to five groups of causes of death which directly affect longevity.

<sup>5</sup> Source: [www.who.int/countries](http://www.who.int/countries)

*In order to control influence of age structures of population on death rates, a method of direct standardization has been applied which allows for answering the following question: what would the death rates be if the population structure was the same during the entire period of analysis. The Polish population structure of 2000 estimated on the basis of the Polish census of 1988 results was applied as a standard for 1980-1999 calculations, while for 2000-2007 the same population structure was utilized but based on the results of the 2002 Polish census.*

*During the last twenty years, despite periodic fluctuations, the overall level of death rates was decreasing (Table 5). Although 2007 brought a small increase in mortality, currently the annual number of deaths in Poland per each 100 thousand people is 200-300 deaths less than in the 80s. 860 people (per 100 thousand) died last year, therefore the standardised death rate for 2007 was 27% lower than in 1980.*

*Changes in mortality according to gender explicitly indicate high over-mortality of men in each age group (Fig. 12). During the entire analysed period the death rates among men below 60 years old were 2-3 times higher than women in the same age. In case of older people (above 60 years of age) the difference is significantly reduced. Despite the fact that 2004-2006 brought a small increase of in mortality among middle-aged men (45-59 years old) it can be stated that after 1991 in Poland, among all age groups, a rapid drop in death rates was observed (mostly among men).*

*In Poland the main causes of deaths are diseases specified as lifestyle diseases. They include: cardiovascular diseases, cancers, injuries and poisonings. According to provisional data they caused 77% of all deaths in 2007.*

*Presently, the primary causes of deaths in Poland are cardiovascular diseases. In the 90s, this rate (apart from insignificant fluctuations) was decreasing, which resulted from – inter alia – greater awareness of prevention methods, attention to physical condition and most of all change of bad nutritional habits towards a fruit-and-vegetable-rich diet. In 2007, the death rate caused by cardiovascular disease reached 3.8 which means that every second death was a result of these diseases. A decrease in the mortality rate resulting from cardiovascular diseases have been noticed since 1992. While in 1991, 625 persons per 100 thousand died due to that reason, in 2007 the number decreased by 381. The cardiovascular disease mortality rate among men aged 45 is three times higher than among women in the same age (Fig. 13).*

*This also concerns people at age of 45-59, however, the level of this rate is several times higher than among younger people. After a significant increase of men death rate at age of 45-59 in the 1980s, the next decade brought a material decrease. The mortality rate for women of the same age did not change significantly for many years but since 1991 it has started to slowly decline albeit gradually. Cardiovascular diseases are the most common cause of death among people over 60 years old. The age is characterised by the fact that male death rate is not*

materially higher than female, while in younger age groups the excess of mortality for males is much higher than for females.

The second highest cause of deaths is from neoplasms, causing slightly more than 25% of all deaths. In Poland, a constant increase of death rates caused by these diseases was observed from 1980-2001. The subsequent years brought an insignificant decrease of the standardised death rate and its increase again in 2007. Last year, there were 221 deaths per 100 thousand, which was 20 more than in 1980, but deaths less than in 2001.

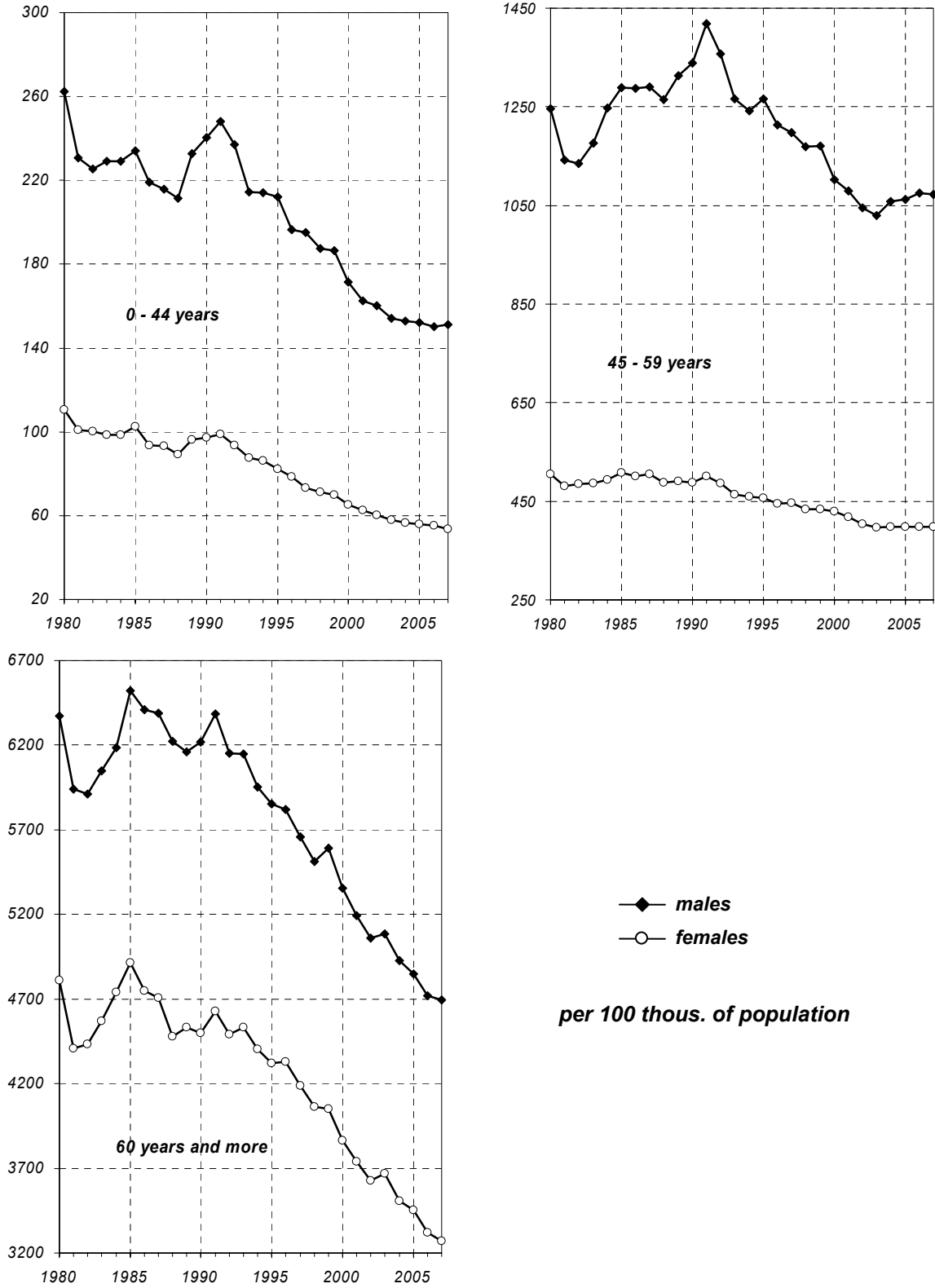
**Table 5. Standardised death rates by selected groups of causes in 1980-2007<sup>6</sup>**

Years	Total	Deaths from neoplasms	Deaths from diseases of the circulatory system	Deaths from external causes	Deaths from diseases of the respiratory system	Deaths from diseases of the digestive system
1980	1183,4	201,2	597,1	81,8	64,4	41,9
1981	1089,4	202,4	547,8	·	56,4	38,8
1982	1088,0	202,6	556,6	·	55,8	37,5
1983	1114,9	206,6	570,6	78,2	60,2	38,6
1984	1147,7	209,9	594,0	78,5	59,7	39,3
1985	1195,0	210,7	627,8	79,3	64,7	38,7
1986	1161,7	211,6	613,7	76,6	61,7	36,5
1987	1155,6	213,0	620,8	73,8	54,9	36,5
1988	1115,1	215,4	595,5	72,1	48,1	36,0
1989	1132,3	214,2	602,5	78,3	49,5	35,7
1990	1137,6	216,8	604,3	83,6	45,8	35,3
1991	1172,2	217,7	625,4	88,0	43,8	35,8
1992	1130,8	215,4	599,9	83,5	38,3	35,8
1993	1115,2	218,6	587,2	77,4	39,6	35,4
1994	1086,4	218,4	562,7	79,5	35,7	35,5
1995	1071,9	220,5	545,6	77,9	36,9	35,3
1996	1058,5	219,3	537,6	73,2	39,4	34,4
1997	1030,9	209,5	477,6	80,5	44,3	31,2
1998	1002,0	219,3	480,0	78,2	37,2	32,5
1999	1005,3	219,7	479,7	71,5	47,3	38,3
2000	962,0	225,5	458,5	67,3	47,9	38,3
2001	932,3	226,2	445,1	64,9	40,4	37,4
2002	906,7	225,8	425,1	65,2	39,0	37,2
2003	908,3	224,0	426,2	63,2	42,8	37,0
2004	883,6	222,6	405,5	62,9	40,6	38,2
2005	873,2	219,7	392,6	63,2	43,6	39,3
2006	852,3	218,8	379,5	61,8	41,8	38,0
2007	859,9	220,8	381,1	60,7	43,5	38,8

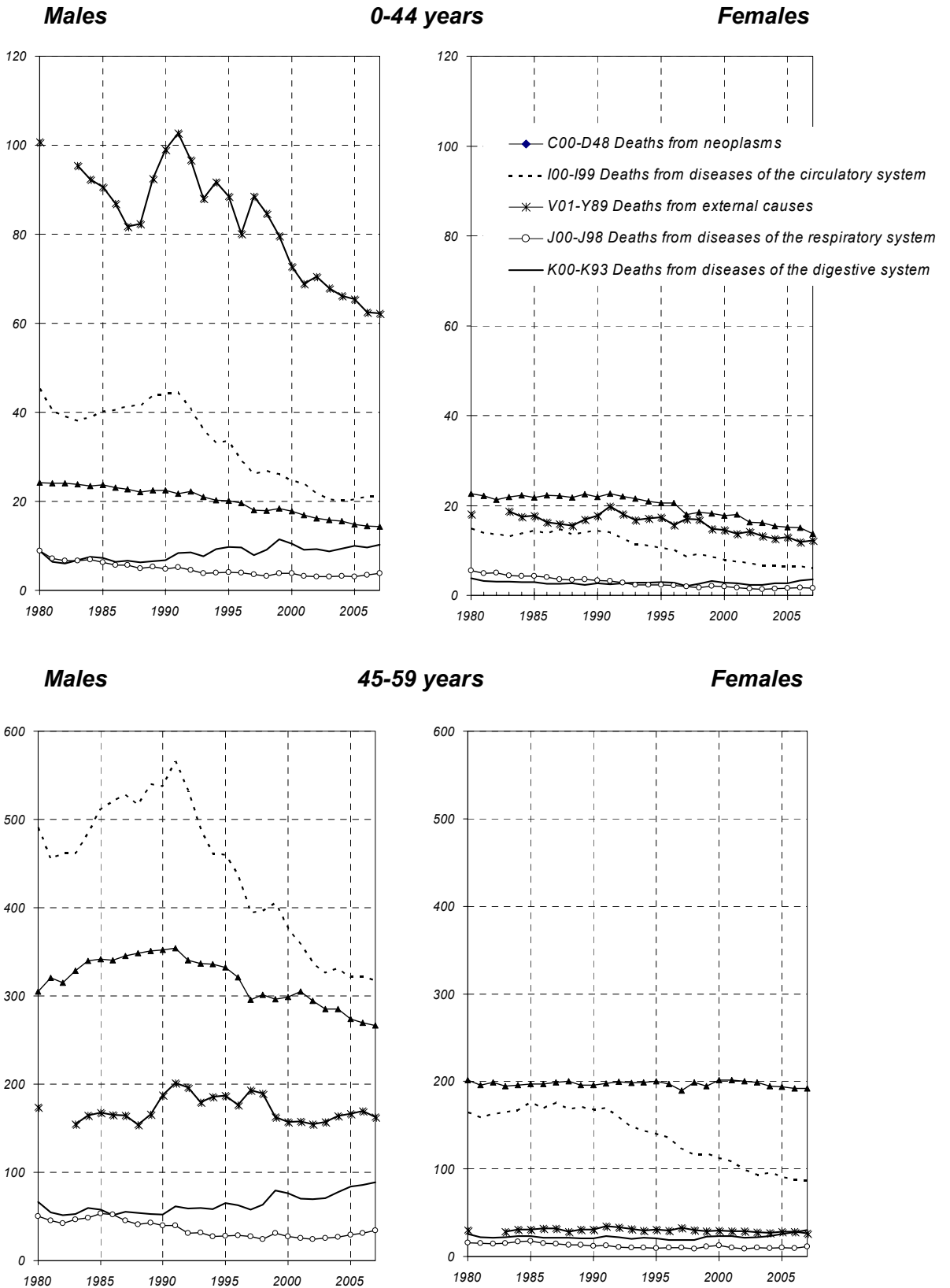
<sup>6</sup> Deaths rates by causes for years 1997 and 1998 have been estimated using proportional number of deaths. It was resulted ca 80.5 thous. deceased in 1997 and ca 75.4 thous. – in 1998, for which the cause of death was missing.



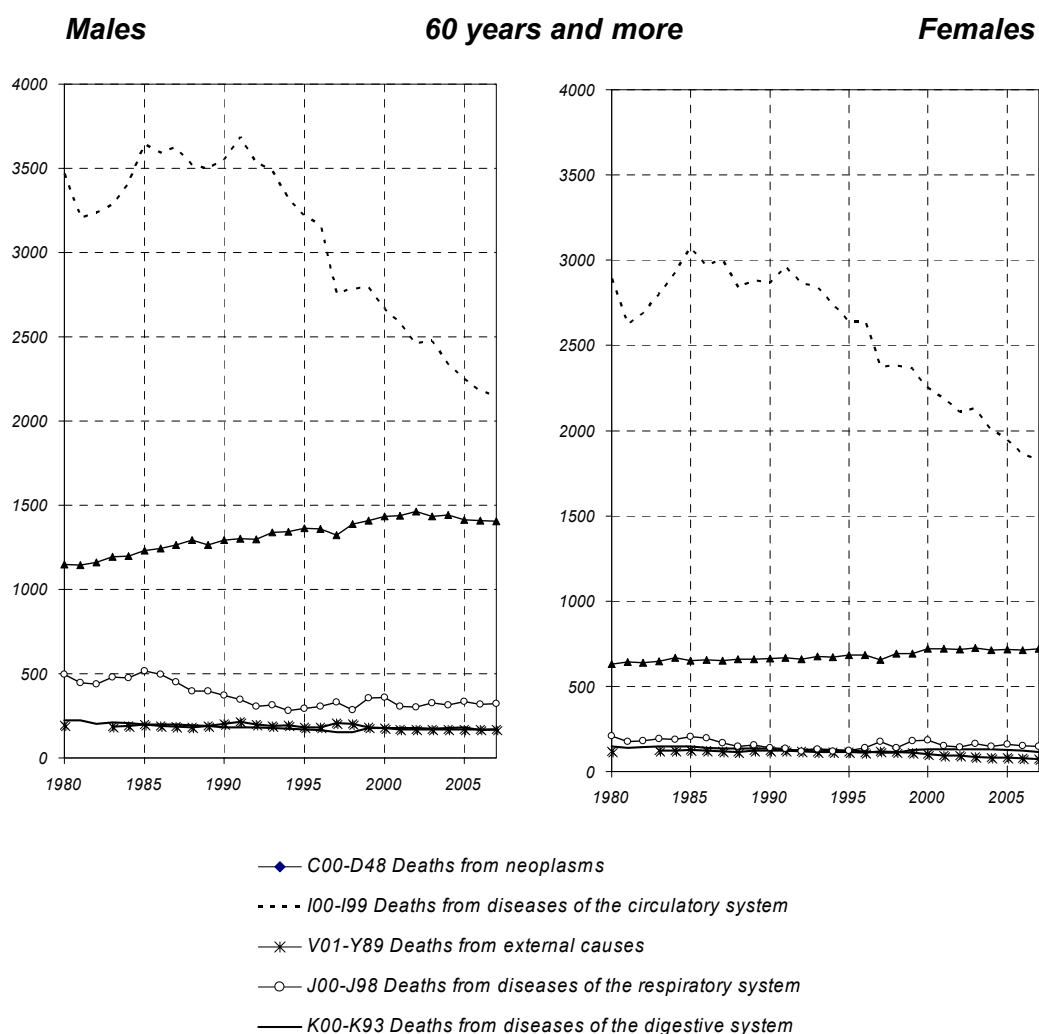
**Fig. 12. Standardised death rates by age in 1980-2007**



**Fig. 13. Standardised death rates by selected groups of causes in 1980-2007**



**Fig. 13. Standardised death rates  
by selected groups of causes in 1980-2007 (cont.)**



Such situation is a result of a rapid decrease of death rates caused by neoplasms among people younger than 44 years old. During the last 25 years the number of male deaths at this age decreased from 24 (per 100 thousand) in 1980 to 14 in 2007, and female deaths from 23 to 14 respectively. This level is several times lower than the level noted among people aged 45-59. A sudden decline in neoplasm mortality from 1991-1996 among men aged 45-59 was halted. This brought a slight increase in deaths at the end of the 90s, however, the beginning of a new century brought another drop in numbers. In the case of women, the rate of deaths caused by cancers has remained fairly stable for twenty years. In the older age groups – (60 years and more) mortality increases during the entire analysed period (this mostly concerns men), and the death rates caused by these diseases is five times higher than among people under 60 years old. In 2007, per each 100 thousand of men at this age 1404 died i.e. 256 more than in 1980. With regards to women, the number increased by 90 persons at the same time and reached 722 deaths in 2007.

However, a trend of decreasing death rates of caused by external reasons (accidents, injuries and poisonings) can be observed. In 2007 – only 61 deaths per 100 thousand persons. In comparison, the highest level of the discussed rate was noted in 1991, with 88 deaths.

Accidents, injuries and poisonings are the most frequent reasons of death among young men aged below 45, in fact, in 2007 it comprised 42% of all deaths among males at this age. The death rate among men aged 59 is five time higher than among women. People above 60 years old suffer from accidents, injuries and poisonings less frequently. Furthermore, although the numbers concerning men are higher, the gap between mortality rates of older men and women is closing.

In Poland in 2007, respiratory diseases were responsible for 5% of all deaths. After a steady decrease in mortality caused by these diseases, which lasted for many years, the death rate has remained at the similar level from the mid 90s. At the beginning of the analysed period, 64 per 100 thousand people died from these diseases, while the best year was 1994 with 36 deaths, and currently 44 deaths per 100 thousand persons. Mortality caused by respiratory diseases among people over 60 years has been decreasing for almost 20 years. However, last years brought slight increase of death rates – mostly among middle-aged men. Frequency of deaths caused by respiratory diseases among elderly people is several times higher than among people aged 45-59 (10 times higher for men, and 15 times higher among women), however, it has been at a similar level since the beginning of the 90s.

Similar changes concern death rates caused by digestive disorders, but at a slightly lower level. In the first half of the 80s, the death rate reached 38-39 per 100 thousand people, during the subsequent ten years it decreased to 35-36 and it increased again to 39 deaths per 100 thousand people in 2007. Changes to the general mortality caused by digestive disorders are mostly influenced by increase of mortality of males aged below 60 years. The female mortality rate of this age as well as elderly people of both genders has remained constant over the past 25 years.

## **6.2. Mortality by selected groups of causes and voivodships in 2007<sup>7</sup>**

In order to analyse death rates in individual voivodships and compare them, a uniform nationwide population structure according to age was applied to a calculation of standardised rates in 2007.

On the basis of our results, the highest mortality rates for last year was noted in łódzkie voivodship (Fig. 14) where 1115 person died per each 100 thousand of population. A rather low death rates – in comparison to other regions of the rural areas – was noted in voivodships in the south of the rural areas (małopolskie and podkarpackie voivodships) and in the podlaskie and mazowieckie voivodships. In 2007, the greatest diversity in death rates between urban and rural

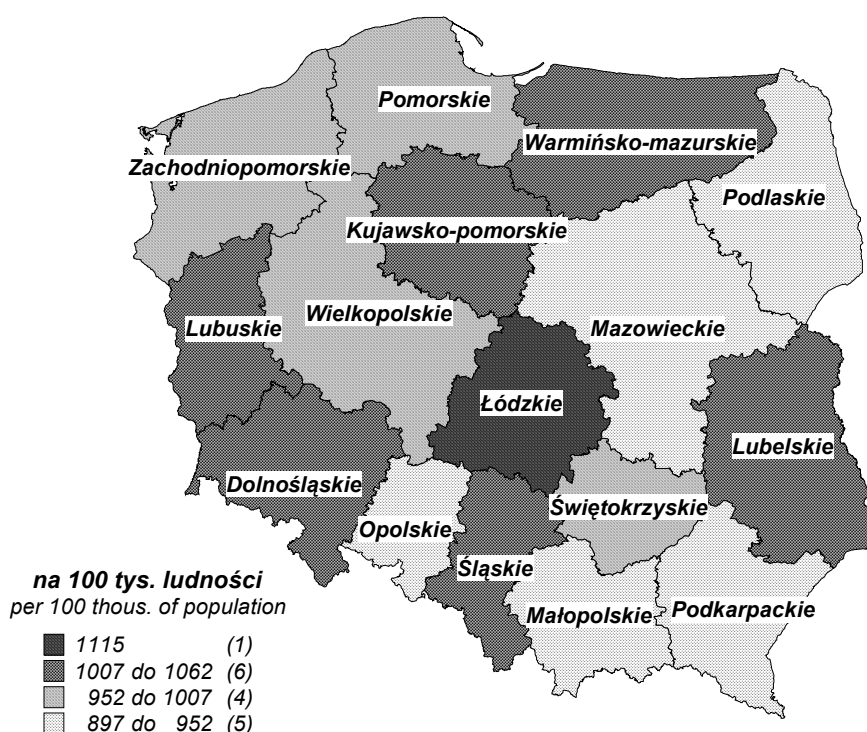
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<sup>7</sup> Inicial data

areas was observed in the podlaskie, warmińsko-mazurskie, mazowieckie and lubelskie voivodships. Over 100 less people (per 100 thousand) died in urban areas of these voivodships than in the rural areas. Particular attention must be drawn to the śląskie voivodship – the only one where mortality in the cities was higher than in the rural areas (by 31 people).

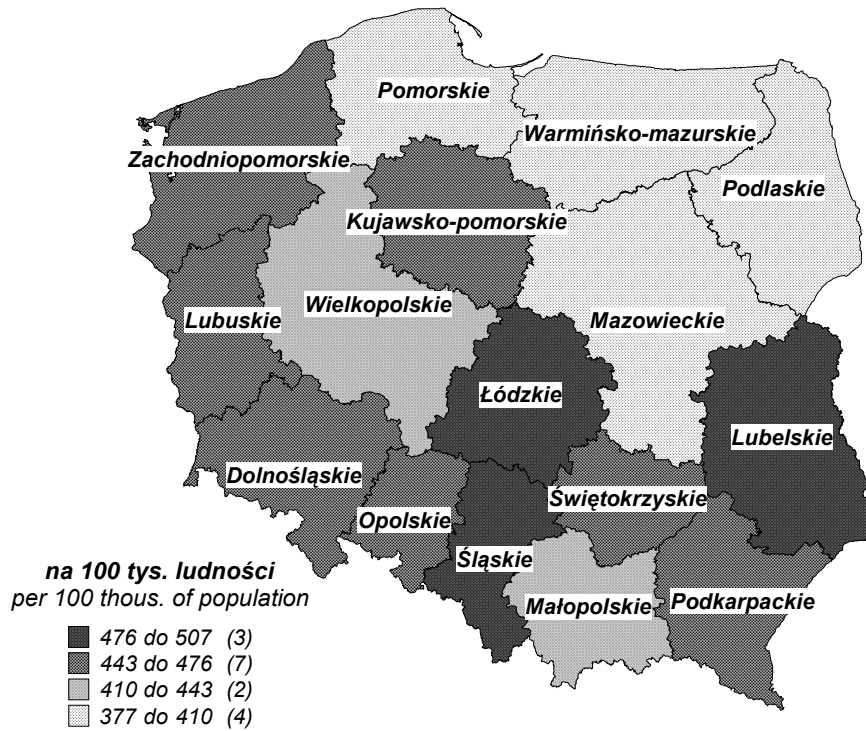
Distribution of death rates by causes is different between urban and rural areas. Residents of rural areas suffer more often from cardiovascular and respiratory diseases. They are also more frequent victims of accidents, injuries and poisonings. However, the mortality caused by cancers and digestive disorders is higher among urban inhabitants.

**Fig. 14. Death rates by voivodships in 2007**

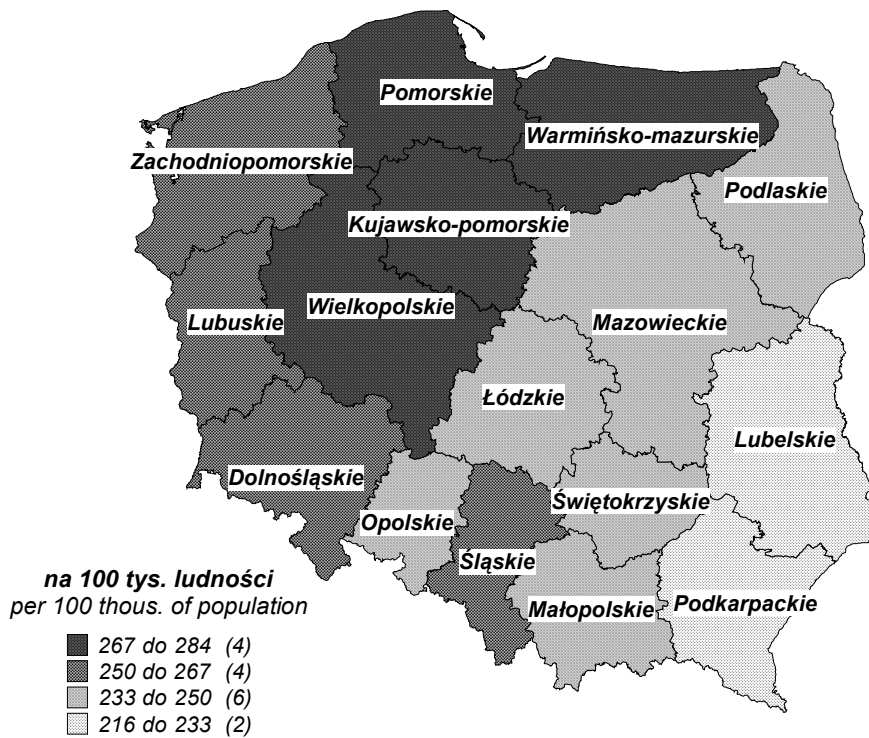


In 2007, the highest mortality related to cardiovascular diseases was noted in the southern and south-western Poland (Fig. 15). In nine voivodships the death rate of caused by this diseases exceeded the national average of 449 deaths per 100 thousand people. The worst situation was in łódzkie voivodship where the death rate reached 507, which was 30% higher than in pomorskie voivodship in which the lowest mortality rate was noted. In rural areas of all voivodships death rates of caused by cardiovascular diseases was higher than in urban areas. In opolskie voivodship, the difference was the less significant and it reached 28 persons (per 100 thousand) while in mazowieckie voivodship the number was 110.

**Fig. 15. Death rates caused by the circulatory system diseases in 2007**

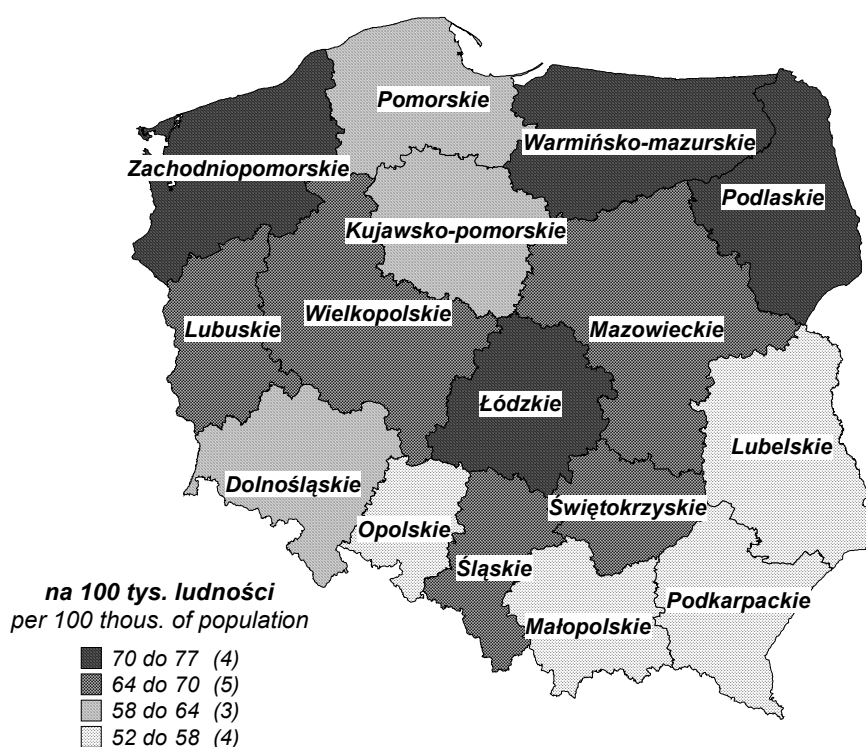


**Fig. 16. Death rates caused by neoplasms in 2007**



In 2007, the most risk-prone voivodships with respect to deaths caused by neoplasms were the voivodships located in north-western Poland (Fig. 16), which was unchanged from the previous year. In this region, over 260 people died per each 100 thousand. The lowest mortality rates was noted in podkarpackie and lubelskie voivodships (216 and 223 persons respectively). Deaths caused by neoplasms were more frequently noted in urban areas. Only in voivodship in warmińsko-mazurskie was the rate slightly higher than in the rural areas. However, the range between the extreme values of death rates both in the urban and in the rural areas did not exceed 35 persons (per 100 thousand).

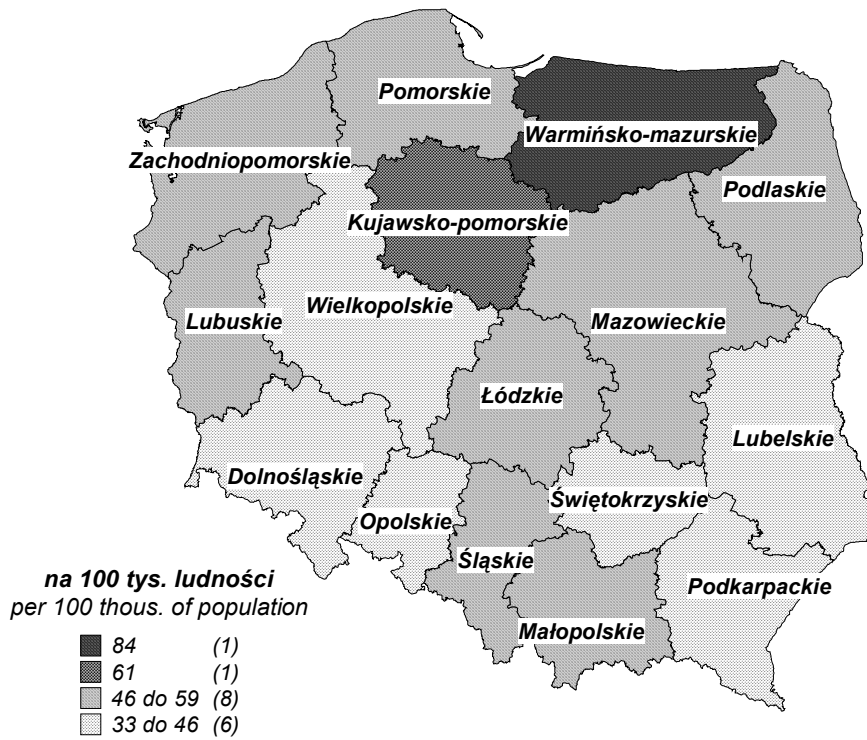
**Fig. 17. Death rates caused by external causes in 2007**



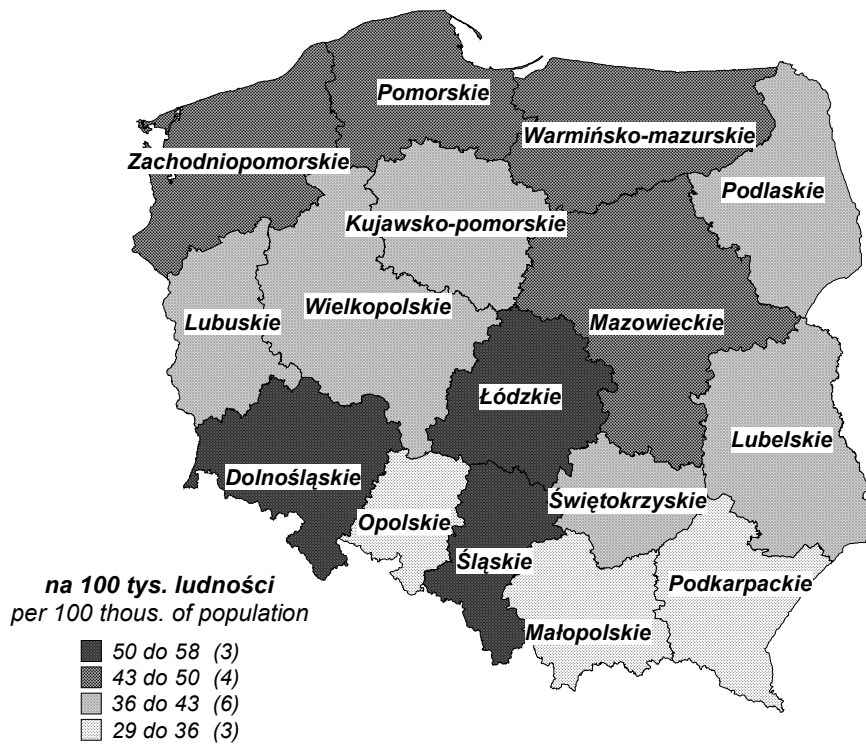
Last year, the residents of central, north-eastern Poland and zachodniopomorskie voivodship (Fig. 17) suffered from lethal accidents most frequently. Łódzkie voivodship noted 77 deaths per 100 thousand persons, which was the highest rate. In voivodships with the lowest death rates related to external causes (podkarpackie, lubelskie, małopolskie and opolskie) the number of death by at least 21 persons.

In 2007, the rate of deaths caused by accidents, injuries and poisonings was higher in rural areas in all voivodships. The greatest disproportions were observed in the lubuskie, mazowieckie and podlaskie voivodships in which the number of deaths in the rural areas was higher by 30 people than in the urban areas.

**Fig. 18. Death rates caused by the respiratory system diseases in 2007**



**Fig. 19. Death rates caused by the digestive system diseases in 2007**





*Last year, the lowest level of mortality related to respiratory diseases was in podkarpackie voivodship (33 deaths per 100 thousand people). While the highest mortality rate was noted in the warmińsko-mazurskie voivodship (Fig. 18). Death rates in this voivodship were 2.5 times higher than average at 84 deaths per 100 thousand people in 2007.*

*In the present year, deaths due to respiratory diseases was higher in the rural areas than in the urban areas. Only in the opolskie, łódzkie and śląskie voivodships it did remain at the same level.*

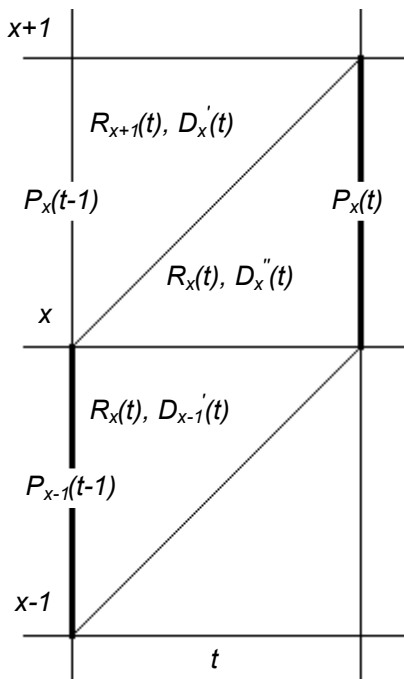
*In 2007, the highest rates of deaths caused by digestive disorders were noted in the łódzkie and śląskie voivodships (58 and 55 deaths respectively per 100 thousand people). The best situation was in voivodships of south-eastern Poland (Fig. 19) where less than 40 per 100 thousand people died from digestive disorders. In all voivodships frequency of deaths related to digestive disorders was slightly higher in the urban areas. The greatest disproportions were noted in the śląskie and łódzkie voivodships where the death rates for the urban areas was higher than the respective rate for the rural areas by over 30%.*

## 7. Methodological remarks

### 7.1. Complete life tables

Complete life tables are drawn up on the basis of data on persons deceased in 2007 classified by the year of birth and final age, the number of births in 2007 and the number of population by the year of birth at the end of 2006 and 2007. The computation of the tables relies on probabilities of death calculated up to the age of 85 by use of the below presented formulas. The probabilities are extrapolated over the ages of 85 and over and then graduated for ages 1-84. Other indicators of the life tables are calculated by traditional methods.

Notation:



$P_x(t)$  – the number of persons aged  $x$  at the end of year  $t$

$B(t)$  – the number of births in year  $t$

$D'_x(t)$  – the number of death in year  $t$  at the age of  $x$ , amongst people born in year  $t - x - 1$

$D''_x(t)$  – the number of persons deceased in year  $t$  at age of  $x$  amongst people born in year  $t - x$

$R_x(t)$  – correction for the number of population in year  $t$  with regard to migration of persons born in year  $t - x$

$$R_x(t) = \frac{1}{2} (P_{x-1}(t-1) - P_x(t) - D''_{x-1}(t) - D''_x(t)) \text{ for } 1 \leq x \leq 84$$

$$R_0(t) = B(t) - P_0(t) - D''_0(t)$$

The probability of death  $q_x$  is calculated by use of the formula:

$$q_x = 1 - (1 - q'_x)(1 - q''_x) \text{ for } 0 \leq x \leq 84$$

where

$$q'_x = \frac{\sum_t D'_x(t)}{\sum_t \left( P_x(t-1) - \frac{1}{2} R_{x+1}(t) \right)} \quad \text{and} \quad q''_x = \frac{\sum_t D''_x(t)}{\sum_t \left( P_x(t) + D''_x(t) + \frac{1}{2} R_x(t) \right)}$$

In order to calculate the probabilities of death for persons aged 84 and over the polynomial-exponential function is fitted to the number of survivors:

$$l_x = 100000 \exp(-b_0 - b_1x - b_2x^2 - \dots - b_5x^5)$$

in points  $x = 40, 45, \dots, 85$ , and then extrapolated for ages 85-120.

Fitting is done by use of the generalised least squares method (with application of Marquardt non-linear optimization method) with the assumption that the variance-covariance matrix of the number of survivors contains elements defined by the formula:

$$\text{Cov}(l_x, l_y) = \begin{cases} \frac{l_y}{l_x} S^2(l_x) & y \geq x \\ \frac{l_x}{l_y} S^2(l_y) & y < x \end{cases}$$

in which  $S^2(l_x)$  is an estimate of the variance of the number of survivors calculated by use of the following formulas:

$$S^2(l_{x+1}) = (1 - q_x)^2 S^2(l_x) + S^2(q_x) l_x^2$$

$$S^2(q_x) = \frac{1 - q_x}{D_x} q_x^2$$

in which  $D_x = \sum_t (D'_x(t) + D''_x(t))$  is an observed number of deaths at the age of  $x$ .

Moving parabolic fit with different number of terms is employed as a method of graduation of the probabilities of death, what is equivalent to the following weighted moving averages:

- at the age of 1 – average of the values for ages 1-5 with weights

0,88571 0,25714 -0,08571 -0,14286 0,08571

- at the age of 2 – average of the values for ages 1-5 with weights

0,25714 0,37143 0,34286 0,17143 -0,14286

- at the age of 3 – centred five-term average with weights

-0,08571 0,34286 0,48571 0,34286 -0,08571

- at the age of 4-29 – centred seven-term average with weights

-0,09524 0,14286 0,28571 0,33333 0,28571 0,14286 -0,09524

- at the age of 30-84 – centred nine-term average with weights

-0,09091 0,06061 0,16883 0,23377 0,25541 0,23377 0,16883 0,06061 -0,09091

The above moving fit cycle is employed three times. The empirical value of  $q_0$  remains intact.

The remaining columns of the life table are calculated in line with known principles, by use of the following formulas:

♦ number of survivors

$$l_0 = 100000$$

$$l_x = l_{x-1}(1 - q_{x-1}) \quad x = 1, 2, \dots, 120$$

♦ number of dying

$$d_x = l_x q_x \quad x = 0, 1, 2, \dots, 100$$

♦ stationary population

$$L_0 = l_0(1 - q_0^n)$$

$$L_x = \frac{l_x + l_{x+1}}{2} \quad x = 1, 2, \dots, 119$$

$$T_x = \sum_{y \geq x} L_y \quad x = 0, 1, 2, \dots, 100$$

♦ life expectancy

$$e_x = \frac{T_x}{l_x} \quad x = 0, 1, 2, \dots, 100$$

## 7.2. Abridged life tables

An abridged life tables is drawn up on the basis of a complete tables and data on the number of deaths  $D_x$ . The number of the survivors and the life expectancy are derived from that table, whereas the probabilities of death during  $n$  years for persons aged  $x$  are calculated by use of the following formula:

$${}_n q_x = 1 - \frac{l_{x+n}}{l_x} \quad \left\{ \begin{array}{l} x = 0, 1, 5, 10, \dots, 80 \\ n = 1, 4, 5, 5, \dots, 5 \end{array} \right\}$$

Standard deviation are calculated by the following formulas:

$$S(l_{x+1}) = \sqrt{(1 - q_x)^2 S^2(l_x) + l_x^2 S^2(q_x)}$$

$$S(e_x) = \sqrt{(1 - q_x)^2 S^2(e_{x+1}) + (e_{x+1} + 0.5)^2 S^2(q_x)}$$

$$S({}_n q_x) = {}_n q_x \sqrt{\frac{1 - {}_n q_x}{{}_n D_x}} \quad \text{gdzie} \quad {}_n D_x = \sum_{y=x}^{x+n-1} D_y$$

### **7.3. Life tables for both sexes together**

*Unlike in previous publication, we recently ceased to draw up life tables for total population (i.e. with no distinction by gender) by use of the same method as employed for a single sex. In Poland each year since 1999 is calculated combined life expectancy, accordingly with the requirements introduced in the social insurance system. To ensure the comparability with previous publications the life table for total population have been included, calculated by use of method combining numbers of survivors of both sexes with the assumption of sex proportion at birth of 0,4845 for females and 0,5155 for males (Table 6). Life expectancy combined for both sexes presented in months of life according to exact age of survivors, is disseminated each year by the President of Central Statistical Office (Table 7).*

Table 6. Life table for both sexes combined 2007

Age	Number living	Probability of dying	Number dying	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
0	100000	0,00601	601	99464	7521540	75,22
1	99399	0,00036	36	99381	7422076	74,67
2	99363	0,00028	28	99349	7322695	73,70
3	99335	0,00020	20	99325	7223346	72,72
4	99315	0,00017	17	99307	7124021	71,73
5	99298	0,00015	15	99291	7024714	70,74
6	99283	0,00013	13	99277	6925423	69,75
7	99270	0,00012	12	99264	6826146	68,76
8	99258	0,00012	12	99252	6726882	67,77
9	99246	0,00013	13	99240	6627630	66,78
10	99233	0,00014	14	99226	6528390	65,79
11	99219	0,00016	16	99211	6429164	64,80
12	99203	0,00017	17	99195	6329953	63,81
13	99186	0,00021	21	99176	6230758	62,82
14	99165	0,00024	24	99153	6131582	61,83
15	99141	0,00031	31	99126	6032429	60,85
16	99110	0,00039	39	99091	5933303	59,87
17	99071	0,00050	50	99046	5834212	58,89
18	99021	0,00058	57	98993	5735166	57,92
19	98964	0,00065	64	98932	5636173	56,95
20	98900	0,00069	68	98866	5537241	55,99
21	98832	0,00070	69	98798	5438375	55,03
22	98763	0,00070	69	98729	5339577	54,06
23	98694	0,00069	68	98660	5240848	53,10
24	98626	0,00070	69	98592	5142188	52,14
25	98557	0,00069	68	98523	5043596	51,17
26	98489	0,00072	71	98454	4945073	50,21
27	98418	0,00075	74	98381	4846619	49,25
28	98344	0,00081	80	98304	4748238	48,28
29	98264	0,00088	86	98221	4649934	47,32
30	98178	0,00093	91	98133	4551713	46,36
31	98087	0,00099	97	98039	4453580	45,40
32	97990	0,00107	105	97938	4355541	44,45
33	97885	0,00115	113	97829	4257603	43,50
34	97772	0,00126	123	97711	4159774	42,55
35	97649	0,00138	135	97582	4062063	41,60
36	97514	0,00153	149	97440	3964481	40,66
37	97365	0,00168	164	97283	3867041	39,72
38	97201	0,00188	183	97110	3769758	38,78
39	97018	0,00208	202	96917	3672648	37,86
40	96816	0,00233	226	96703	3575731	36,93
41	96590	0,00260	251	96465	3479028	36,02
42	96339	0,00291	280	96199	3382563	35,11
43	96059	0,00324	311	95904	3286364	34,21
44	95748	0,00360	345	95576	3190460	33,32
45	95403	0,00400	382	95212	3094884	32,44
46	95021	0,00444	422	94810	2999672	31,57
47	94599	0,00490	464	94367	2904862	30,71
48	94135	0,00540	508	93881	2810495	29,86
49	93627	0,00593	555	93350	2716614	29,02
50	93072	0,00648	603	92771	2623264	28,19

Table 6. Life table for both sexes combined 2007 (cont.)

Age	Number living	Probability of dying	Number dying	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
51	92469	0,00706	653	92143	2530493	27,37
52	91816	0,00768	705	91464	2438350	26,56
53	91111	0,00830	756	90733	2346886	25,76
54	90355	0,00898	811	89950	2256153	24,97
55	89544	0,00967	866	89111	2166203	24,19
56	88678	0,01040	922	88217	2077092	23,42
57	87756	0,01114	978	87267	1988875	22,66
58	86778	0,01195	1037	86260	1901608	21,91
59	85741	0,01276	1094	85194	1815348	21,17
60	84647	0,01362	1153	84071	1730154	20,44
61	83494	0,01454	1214	82887	1646083	19,71
62	82280	0,01550	1275	81643	1563196	19,00
63	81005	0,01653	1339	80336	1481553	18,29
64	79666	0,01764	1405	78964	1401217	17,59
65	78261	0,01886	1476	77523	1322253	16,90
66	76785	0,02019	1550	76010	1244730	16,21
67	75235	0,02164	1628	74421	1168720	15,53
68	73607	0,02323	1710	72752	1094299	14,87
69	71897	0,02501	1798	70998	1021547	14,21
70	70099	0,02699	1892	69153	950549	13,56
71	68207	0,02919	1991	67212	881396	12,92
72	66216	0,03165	2096	65168	814184	12,30
73	64120	0,03448	2211	63015	749016	11,68
74	61909	0,03767	2332	60743	686001	11,08
75	59577	0,04127	2459	58348	625258	10,49
76	57118	0,04541	2594	55821	566910	9,93
77	54524	0,05007	2730	53159	511089	9,37
78	51794	0,05530	2864	50362	457930	8,84
79	48930	0,06109	2989	47436	407568	8,33
80	45941	0,06754	3103	44390	360132	7,84
81	42838	0,07456	3194	41241	315742	7,37
82	39644	0,08223	3260	38014	274501	6,92
83	36384	0,09053	3294	34737	236487	6,50
84	33090	0,09946	3291	31445	201750	6,10
85	29799	0,10906	3250	28174	170305	5,72
86	26549	0,11936	3169	24965	142131	5,35
87	23380	0,13045	3050	21855	117166	5,01
88	20330	0,14230	2893	18884	95311	4,69
89	17437	0,15502	2703	16086	76427	4,38
90	14734	0,16866	2485	13492	60341	4,10
91	12249	0,18336	2246	11126	46849	3,82
92	10003	0,19894	1990	9008	35723	3,57
93	8013	0,21565	1728	7149	26715	3,33
94	6285	0,23294	1464	5553	19566	3,11
95	4821	0,25140	1212	4215	14013	2,91
96	3609	0,27044	976	3121	9798	2,71
97	2633	0,29092	766	2250	6677	2,54
98	1867	0,31119	581	1577	4427	2,37
99	1286	0,33359	429	1072	2850	2,22
100	857	0,35589	305	705	1778	2,07

**Table 7. Life expectancy for both sexes combined<sup>8</sup>**  
(Expected months of future life arranged by years and months of age)

Years	Months											
	0	1	2	3	4	5	6	7	8	9	10	11
30	556,3	555,4	554,4	553,5	552,5	551,6	550,6	549,7	548,7	547,8	546,8	545,8
31	544,9	543,9	543,0	542,0	541,1	540,1	539,2	538,2	537,2	536,3	535,3	534,4
32	533,4	532,5	531,5	530,6	529,6	528,7	527,7	526,8	525,8	524,9	523,9	522,9
33	522,0	521,0	520,1	519,1	518,2	517,2	516,3	515,3	514,3	513,4	512,4	511,5
34	510,5	509,6	508,6	507,7	506,7	505,8	504,9	503,9	503,0	502,0	501,1	500,1
35	499,2	498,3	497,3	496,4	495,4	494,5	493,6	492,6	491,7	490,7	489,8	488,8
36	487,9	487,0	486,0	485,1	484,1	483,2	482,3	481,3	480,4	479,4	478,5	477,5
37	476,6	475,7	474,7	473,8	472,9	471,9	471,0	470,1	469,1	468,2	467,3	466,3
38	465,4	464,5	463,6	462,6	461,7	460,8	459,9	458,9	458,0	457,1	456,2	455,2
39	454,3	453,4	452,5	451,5	450,6	449,7	448,8	447,8	446,9	446,0	445,1	444,1
40	443,2	442,3	441,4	440,5	439,5	438,6	437,7	436,8	435,9	435,0	434,0	433,1
41	432,2	431,3	430,4	429,5	428,6	427,7	426,8	425,8	424,9	424,0	423,1	422,2
42	421,3	420,4	419,5	418,6	417,7	416,8	415,9	415,0	414,1	413,2	412,3	411,4
43	410,5	409,6	408,7	407,9	407,0	406,1	405,2	404,3	403,4	402,6	401,7	400,8
44	399,9	399,0	398,1	397,3	396,4	395,5	394,6	393,7	392,8	392,0	391,1	390,2
45	389,3	388,4	387,6	386,7	385,8	384,9	384,1	383,2	382,3	381,4	380,6	379,7
46	378,8	377,9	377,1	376,2	375,4	374,5	373,7	372,8	371,9	371,1	370,2	369,4
47	368,5	367,7	366,8	366,0	365,1	364,3	363,4	362,6	361,7	360,9	360,0	359,2
48	358,3	357,5	356,6	355,8	354,9	354,1	353,3	352,4	351,6	350,7	349,9	349,0
49	348,2	347,4	346,5	345,7	344,9	344,0	343,2	342,4	341,5	340,7	339,9	339,0
50	338,2	337,4	336,6	335,8	334,9	334,1	333,3	332,5	331,7	330,9	330,0	329,2
51	328,4	327,6	326,8	326,0	325,2	324,4	323,6	322,7	321,9	321,1	320,3	319,5
52	318,7	317,9	317,1	316,3	315,5	314,7	313,9	313,1	312,3	311,5	310,7	309,9
53	309,1	308,3	307,5	306,7	305,9	305,1	304,4	303,6	302,8	302,0	301,2	300,4
54	299,6	298,8	298,1	297,3	296,5	295,7	295,0	294,2	293,4	292,6	291,9	291,1
55	290,3	289,5	288,8	288,0	287,2	286,5	285,7	284,9	284,2	283,4	282,6	281,9
56	281,1	280,3	279,6	278,8	278,1	277,3	276,6	275,8	275,0	274,3	273,5	272,8
57	272,0	271,3	270,5	269,8	269,0	268,3	267,5	266,8	266,0	265,3	264,5	263,8
58	263,0	262,3	261,5	260,8	260,0	259,3	258,6	257,8	257,1	256,3	255,6	254,8
59	254,1	253,4	252,6	251,9	251,2	250,4	249,7	249,0	248,2	247,5	246,8	246,0
60	245,3	244,6	243,9	243,1	242,4	241,7	241,0	240,2	239,5	238,8	238,1	237,3
61	236,6	235,9	235,2	234,5	233,7	233,0	232,3	231,6	230,9	230,2	229,4	228,7
62	228,0	227,3	226,6	225,9	225,2	224,5	223,8	223,0	222,3	221,6	220,9	220,2
63	219,5	218,8	218,1	217,4	216,7	216,0	215,3	214,6	213,9	213,2	212,5	211,8
64	211,1	210,4	209,7	209,0	208,3	207,6	206,9	206,2	205,5	204,8	204,1	203,4
65	202,7	202,0	201,3	200,7	200,0	199,3	198,6	197,9	197,2	196,6	195,9	195,2
66	194,5	193,8	193,2	192,5	191,8	191,1	190,5	189,8	189,1	188,4	187,8	187,1
67	186,4	185,7	185,1	184,4	183,7	183,1	182,4	181,7	181,1	180,4	179,7	179,1
68	178,4	177,7	177,1	176,4	175,8	175,1	174,5	173,8	173,1	172,5	171,8	171,2
69	170,5	169,9	169,2	168,6	167,9	167,3	166,6	166,0	165,3	164,7	164,0	163,4
70	162,7	162,1	161,4	160,8	160,2	159,5	158,9	158,3	157,6	157,0	156,4	155,7
71	155,1	154,5	153,9	153,2	152,6	152,0	151,4	150,7	150,1	149,5	148,9	148,2
72	147,6	147,0	146,4	145,8	145,1	144,5	143,9	143,3	142,7	142,1	141,4	140,8
73	140,2	139,6	139,0	138,4	137,8	137,2	136,6	136,0	135,4	134,8	134,2	133,6
74	133,0	132,4	131,8	131,2	130,6	130,0	129,5	128,9	128,3	127,7	127,1	126,5
75	125,9	125,3	124,8	124,2	123,6	123,1	122,5	121,9	121,4	120,8	120,2	119,7
76	119,1	118,6	118,0	117,5	116,9	116,4	115,8	115,3	114,7	114,2	113,6	113,1
77	112,5	112,0	111,4	110,9	110,4	109,8	109,3	108,8	108,2	107,7	107,2	106,6
78	106,1	105,6	105,1	104,6	104,1	103,6	103,1	102,5	102,0	101,5	101,0	100,5
79	100,0	99,5	99,0	98,5	98,0	97,5	97,1	96,6	96,1	95,6	95,1	94,6
80	94,1	93,6	93,2	92,7	92,2	91,7	91,3	90,8	90,3	89,8	89,4	88,9

<sup>8</sup> Note: table calculated accordingly with the 26<sup>th</sup> article of the national law of 17.XII.1998 on pensions and retirement pay from Social Insurance Fund



## **8. List of publications containing Polish complete and abridged life tables**

### **Polish complete life expectancy tables**

1. GUS [1938]; Polskie tablice wymieralności 1931/32, (*Polish complete mortality 1931/1932*), „Statystyka Polski”, seria C, 91/1938, Warszawa
2. GUS [1956]; Polskie tablice wymieralności 1952/1953, (*Polish complete mortality 1952/1953*), (oprac. R. Zasepa), „Przegląd Statystyczny”, 4/1956, Warszawa
3. GUS [1960]; Polskie tablice wymieralności 1955/1956, (*Polish complete mortality 1955/1956*), (oprac. J. Z. Holzer), „Statystyka Polski”, 32/1960, Warszawa
4. GUS [1964]; Polskie tablice wymieralności 1960/61, (*Polish complete mortality 1960/1961*), (oprac. J. Z. Holzer), „Statystyka Polski”, 91/1964, Warszawa
5. GUS [1968]; Polskie tablice wymieralności 1965/1966, (*Polish complete mortality 1965/1966*), (oprac. J. Aleksyńska), „Studia i Prace Statystyczne”, 13/1968, Warszawa
6. GUS [1973]; Polskie tablice trwania życia 1970-72, (*Polish complete life expectancy tables 1970-1972*), (oprac. J. Aleksyńska i Z. Gałązka), „Rocznik Demograficzny 1973”, Warszawa
7. GUS [1978]; Polskie tablice trwania życia 1975/1976, (*Polish complete life expectancy tables 1975/1976*), (oprac. J. Mijakowska), Statystyka Polski, 101/1978, Warszawa
8. GUS [1983]; Polskie tablice trwania życia 1980/1981, (*Polish complete life expectancy tables 1980/1981*), (oprac. L. Nowak), „Studia i Prace”, 4/1983, Warszawa
9. GUS [1987]; Polskie tablice trwania życia 1985/1986, (*Polish complete life expectancy tables 1985/1986*), (oprac. L. Nowak), „Studia i Prace”, 14/1987, Warszawa
10. GUS [1993]; Polskie tablice trwania życia 1990-1991, (*Polish complete life expectancy tables 1990/1991*), (oprac. J. Mijakowska), „Studia i Analizy Statystyczne”, Warszawa
11. GUS [1997]; Polskie tablice trwania życia 1995-1996, (*Polish complete life expectancy tables 1995/1996*), (oprac. L. Bolesławski), „Studia i Analizy Statystyczne”, Warszawa

### **Life expectancy tables and mortality by causes**

1. GUS [1975]; Trwanie życia i umieralność według przyczyn w latach 1970-1974, (*Life expectancy tables and mortality by causes in 1970-1974*), (oprac. L. Bolesławski), Tablice wynikowe, Warszawa
2. GUS [1976]; Trwanie życia i umieralność według przyczyn w 1975 r., (*Life expectancy tables and mortality by causes in 1975*), (oprac. L. Bolesławski), Tablice wynikowe, Warszawa
3. GUS [1976]; Trwanie życia i umieralność według przyczyn w województwach w latach 1973-1975, (*Life expectancy tables and mortality by causes and voivodships in 1973-1975*), (oprac. L. Bolesławski), Tablice wynikowe, Warszawa
4. GUS [1977]; Trwanie życia i umieralność według przyczyn w 1976 r., (*Life expectancy tables and mortality by causes in 1976*), (oprac. J. Mijakowska), Tablice wynikowe, Warszawa
5. GUS [1981]; Trwanie życia i umieralność według przyczyn w latach 1977-1980, (*Life expectancy tables and mortality by causes in 1977-1980*), (oprac. J. Mijakowska), „Opracowania Statystyczne”, Warszawa
6. GUS [1981]; Trwanie życia i umieralność według przyczyn w latach 1976-1981, cz.I, (*Life expectancy tables and mortality by causes in 1976-1981*), (oprac. L. Nowak), „Opracowania Statystyczne”, Warszawa

7. GUS [1982]; Trwanie życia i umieralność według przyczyn w województwach w latach 1976-1980, cz.II, (*Life expectancy tables and mortality by causes and voivodships in 1976-1980*), (oprac. J.Mijakowska), „Opracowania Statystyczne”, Warszawa
8. GUS [1983]; Trwanie życia i umieralność według przyczyn w 1982 r., (*Life expectancy tables and mortality by causes in 1982*), (oprac. L. Nowak), „Opracowania Statystyczne”, Warszawa
9. GUS [1984]; Trwanie życia i umieralność według przyczyn w 1983 r., (*Life expectancy tables and mortality by causes in 1983*), (oprac. L. Nowak), „Opracowania Statystyczne”, Warszawa
10. GUS [1985]; Trwanie życia i umieralność według przyczyn w 1984 r., (*Life expectancy tables and mortality by causes in 1984*), (oprac. L. Nowak), „Opracowania Statystyczne”, Warszawa
11. GUS [1986]; Trwanie życia i umieralność według przyczyn w 1985 r., (*Life expectancy tables and mortality by causes in 1985*), (oprac. L. Nowak), „Opracowania Statystyczne”, Warszawa
12. GUS [1986]; Trwanie życia i umieralność według przyczyn w województwach w latach 1981-1985, (*Life expectancy tables and mortality by causes and voivodships in 1981-1985*), (oprac. L. Nowak), „Opracowania Statystyczne”, Warszawa
13. GUS [1987]; Trwanie życia i umieralność według przyczyn w 1986 r., (*Life expectancy tables and mortality by causes in 1986*), (oprac. L. Nowak), „Opracowania Statystyczne”, Warszawa
14. GUS [1988]; Trwanie życia i umieralność według przyczyn w 1987 r., (*Life expectancy tables and mortality by causes in 1987*), (oprac. L. Nowak), „Opracowania Statystyczne”, Warszawa
15. GUS [1990]; Trwanie życia i umieralność według przyczyn w 1989 r., (*Life expectancy tables and mortality by causes in 1989*), (oprac. L. Nowak), „Materiały i Opracowania Statystyczne”, Warszawa
16. GUS [1991]; Trwanie życia i umieralność według przyczyn w 1988 r., (*Life expectancy tables and mortality by causes in 1988*), (oprac. L. Nowak), „Materiały i Opracowania Statystyczne”, Warszawa
17. GUS [1991]; Trwanie życia i umieralność według przyczyn w 1990 r., (*Life expectancy tables and mortality by causes in 1990*), (oprac. L. Nowak), „Materiały i Opracowania Statystyczne”, Warszawa
18. GUS [1991]; Trwanie życia i umieralność według przyczyn w województwach w latach 1986-1990, (*Life expectancy tables and mortality by causes and voivodships in 1986-1990*), (oprac. J. Mijakowska), „Materiały i Opracowania Statystyczne”, Warszawa
19. GUS [1992]; Trwanie życia i umieralność według przyczyn w 1991 r., (*Life expectancy tables and mortality by causes in 1991*), (oprac. L. Nowak), „Materiały i Opracowania Statystyczne”, Warszawa
20. GUS [1993]; Trwanie życia i umieralność według przyczyn w 1992 r., (*Life expectancy tables and mortality by causes in 1992*), (oprac. A. Glazer, L. Bolesławski), „Informacje i Opracowania Statystyczne”, Warszawa
21. GUS [1994]; Trwanie życia i umieralność według przyczyn w 1993 r., (*Life expectancy tables and mortality by causes in 1993*), (oprac. A. Glazer, L. Bolesławski), „Informacje i Opracowania Statystyczne”, Warszawa
22. GUS [1995]; Trwanie życia i umieralność według przyczyn w 1994 r., (*Life expectancy tables and mortality by causes in 1994*), (oprac. A. Glazer, L. Bolesławski), „Informacje i Opracowania Statystyczne”, Warszawa
23. Bolesławski L. [1996]; Trwanie życia i umieralność według przyczyn w 1995 r., (*Life expectancy tables and mortality by causes in 1995*), „Studia i Analizy Statystyczne”, GUS, Warszawa

24. Bolesławski L. [1997]; Trwanie życia i umieralność według przyczyn w województwach w latach 1991-1995, (*Life expectancy tables and mortality by causes and voivodships in 1991-1995*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa
25. Bolesławski L. [1997]; Trwanie życia i umieralność według przyczyn w 1996 r., (*Life expectancy tables and mortality by causes in 1996*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa

### ***Life expectancy tables***

1. Bolesławski L. [1998]; Trwanie życia w 1997 r., (*Life tables of Poland 1997*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa
2. Bolesławski L. [1999]; Trwanie życia w 1998 r., (*Life tables of Poland 1998*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa
3. Bolesławski L. [2000]; Trwanie życia w 1999 r., (*Life tables of Poland 1999*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa
4. Bolesławski L. [2001]; Trwanie życia w 2000 r., (*Life tables of Poland 2000*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa
5. Rutkowska L. [2002]; Trwanie życia w 2001 r., (*Life tables of Poland 2001*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa
6. Rutkowska L. [2003]; Trwanie życia w 2002 r., (*Life tables of Poland 2002*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa
7. Rutkowska L. [2004]; Trwanie życia w 2003 r., (*Life tables of Poland 2003*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa
8. Rutkowska L. [2005]; Trwanie życia w 2004 r., (*Life tables of Poland 2004*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa
9. Rutkowska L. [2006]; Trwanie życia w 2005 r., (*Life tables of Poland 2005*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa
10. Rutkowska L. [2007]; Trwanie życia w 2006 r., (*Life tables of Poland 2006*), „Informacje i Opracowania Statystyczne”, GUS, Warszawa

TABLE A. LIFE TABLE OF POLAND 2007

TOTAL  
MALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
0	100000	0,00657	657	99413	7096170	70,96
1	99343	0,00043	43	99322	6996758	70,43
2	99301	0,00031	31	99285	6897436	69,46
3	99270	0,00023	23	99258	6798151	68,48
4	99247	0,00018	18	99238	6698892	67,50
5	99229	0,00016	16	99221	6599654	66,51
6	99213	0,00015	15	99205	6500433	65,52
7	99198	0,00014	14	99191	6401228	64,53
8	99184	0,00014	14	99176	6302037	63,54
9	99169	0,00015	15	99162	6202861	62,55
10	99154	0,00017	16	99146	6103699	61,56
11	99138	0,00018	18	99129	6004553	60,57
12	99119	0,00021	21	99109	5905424	59,58
13	99099	0,00024	24	99087	5806315	58,59
14	99075	0,00030	30	99060	5707228	57,61
15	99045	0,00041	40	99025	5608169	56,62
16	99005	0,00055	54	98978	5509144	55,65
17	98951	0,00071	70	98915	5410166	54,68
18	98880	0,00086	85	98838	5311251	53,71
19	98795	0,00098	97	98746	5212413	52,76
20	98698	0,00106	105	98645	5113667	51,81
21	98593	0,00110	108	98538	5015022	50,87
22	98484	0,00111	109	98430	4916483	49,92
23	98375	0,00110	108	98321	4818053	48,98
24	98268	0,00108	106	98214	4719732	48,03
25	98161	0,00108	106	98108	4621517	47,08
26	98055	0,00111	109	98001	4523409	46,13
27	97946	0,00117	115	97889	4425408	45,18
28	97832	0,00125	123	97770	4327519	44,23
29	97709	0,00135	132	97643	4229749	43,29
30	97577	0,00144	140	97507	4132106	42,35
31	97436	0,00155	151	97361	4034599	41,41
32	97286	0,00166	162	97205	3937238	40,47
33	97124	0,00180	175	97037	3840033	39,54
34	96949	0,00196	190	96854	3742996	38,61
35	96759	0,00215	208	96655	3646142	37,68
36	96551	0,00236	228	96437	3549487	36,76
37	96323	0,00260	251	96198	3453050	35,85
38	96073	0,00288	277	95934	3356852	34,94
39	95796	0,00319	305	95643	3260918	34,04
40	95491	0,00354	338	95322	3165274	33,15
41	95153	0,00392	373	94966	3069952	32,26
42	94780	0,00436	413	94573	2974986	31,39
43	94367	0,00484	457	94138	2880413	30,52
44	93910	0,00537	504	93658	2786275	29,67
45	93405	0,00596	556	93127	2692617	28,83
46	92849	0,00659	612	92543	2599490	28,00
47	92237	0,00727	671	91902	2506947	27,18
48	91566	0,00800	733	91200	2415045	26,37
49	90833	0,00877	797	90435	2323846	25,58
50	90037	0,00958	862	89606	2233411	24,81

TABLE A. LIFE TABLE OF POLAND 2007 (cont.)

TOTAL  
MALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
51	89175	0,01042	929	88710	2143805	24,04
52	88246	0,01129	996	87748	2055095	23,29
53	87249	0,01220	1064	86717	1967347	22,55
54	86185	0,01315	1133	85618	1880630	21,82
55	85052	0,01414	1203	84450	1795012	21,10
56	83849	0,01518	1273	83212	1710562	20,40
57	82576	0,01628	1344	81904	1627349	19,71
58	81231	0,01744	1417	80523	1545446	19,03
59	79815	0,01867	1490	79070	1464923	18,35
60	78325	0,01997	1564	77543	1385853	17,69
61	76761	0,02136	1640	75941	1308310	17,04
62	75121	0,02285	1716	74263	1232369	16,41
63	73405	0,02444	1794	72508	1158106	15,78
64	71611	0,02616	1873	70674	1085598	15,16
65	69738	0,02801	1953	68761	1014923	14,55
66	67784	0,03001	2034	66767	946162	13,96
67	65750	0,03217	2115	64693	879395	13,37
68	63635	0,03451	2196	62537	814702	12,80
69	61439	0,03704	2276	60301	752165	12,24
70	59163	0,03978	2354	57986	691864	11,69
71	56809	0,04276	2429	55595	633878	11,16
72	54380	0,04600	2502	53129	578283	10,63
73	51879	0,04956	2571	50593	525154	10,12
74	49307	0,05347	2637	47989	474561	9,62
75	46671	0,05779	2697	45322	426572	9,14
76	43974	0,06256	2751	42598	381249	8,67
77	41223	0,06783	2796	39825	338651	8,22
78	38427	0,07363	2829	37012	298826	7,78
79	35597	0,07997	2847	34174	261814	7,35
80	32751	0,08688	2845	31328	227640	6,95
81	29905	0,09434	2821	28495	196312	6,56
82	27084	0,10235	2772	25698	167818	6,20
83	24312	0,11091	2697	22964	142120	5,85
84	21615	0,12002	2594	20318	119156	5,51
85	19021	0,12968	2467	17788	98838	5,20
86	16554	0,13993	2317	15396	81050	4,90
87	14238	0,15078	2147	13164	65654	4,61
88	12091	0,16227	1962	11110	52490	4,34
89	10129	0,17448	1767	9245	41380	4,09
90	8362	0,18735	1567	7578	32135	3,84
91	6795	0,20115	1367	6112	24556	3,61
92	5428	0,21568	1171	4843	18444	3,40
93	4258	0,23093	983	3766	13601	3,19
94	3274	0,24690	808	2870	9835	3,00
95	2466	0,26357	650	2141	6965	2,82
96	1816	0,28094	510	1561	4824	2,66
97	1306	0,29899	390	1111	3263	2,50
98	915	0,31768	291	770	2153	2,35
99	625	0,33699	210	519	1383	2,21
100	414	0,35689	148	340	864	2,09

TABLE A. LIFE TABLE OF POLAND 2007 (cont.)

TOTAL  
FEMALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
0	100000	0,00541	541	99519	7974072	79,74
1	99459	0,00030	30	99444	7874553	79,17
2	99429	0,00023	23	99417	7775109	78,20
3	99405	0,00018	18	99396	7675692	77,22
4	99387	0,00016	15	99379	7576296	76,23
5	99372	0,00014	13	99365	7476917	75,24
6	99358	0,00012	12	99352	7377552	74,25
7	99347	0,00010	10	99342	7278200	73,26
8	99337	0,00010	9	99332	7178858	72,27
9	99327	0,00010	10	99322	7079527	71,27
10	99317	0,00012	11	99311	6980205	70,28
11	99306	0,00013	13	99299	6880893	69,29
12	99292	0,00015	15	99285	6781594	68,30
13	99278	0,00017	16	99270	6682309	67,31
14	99261	0,00019	19	99252	6583040	66,32
15	99243	0,00021	21	99232	6483788	65,33
16	99222	0,00024	24	99210	6384555	64,35
17	99198	0,00026	26	99185	6285346	63,36
18	99172	0,00028	28	99158	6186161	62,38
19	99144	0,00029	29	99130	6087003	61,40
20	99115	0,00029	28	99101	5987874	60,41
21	99087	0,00028	28	99073	5888773	59,43
22	99059	0,00027	27	99046	5789700	58,45
23	99033	0,00027	26	99019	5690654	57,46
24	99006	0,00027	27	98993	5591634	56,48
25	98979	0,00029	28	98965	5492641	55,49
26	98951	0,00031	30	98936	5393676	54,51
27	98920	0,00032	32	98904	5294741	53,53
28	98888	0,00034	34	98871	5195836	52,54
29	98854	0,00037	36	98836	5096965	51,56
30	98818	0,00039	38	98799	4998129	50,58
31	98780	0,00041	41	98759	4899330	49,60
32	98739	0,00044	44	98717	4800571	48,62
33	98695	0,00048	47	98671	4701853	47,64
34	98648	0,00053	52	98622	4603182	46,66
35	98596	0,00058	58	98567	4504560	45,69
36	98538	0,00065	64	98506	4405993	44,71
37	98474	0,00074	73	98437	4307487	43,74
38	98401	0,00084	82	98360	4209050	42,77
39	98318	0,00095	94	98272	4110691	41,81
40	98225	0,00109	107	98171	4012419	40,85
41	98118	0,00124	121	98057	3914248	39,89
42	97997	0,00141	138	97928	3816190	38,94
43	97859	0,00159	156	97781	3718263	38,00
44	97703	0,00179	175	97615	3620482	37,06
45	97528	0,00201	196	97430	3522866	36,12
46	97331	0,00225	219	97222	3425437	35,19
47	97112	0,00251	244	96990	3328215	34,27
48	96869	0,00278	270	96734	3231225	33,36
49	96599	0,00308	297	96450	3134491	32,45
50	96301	0,00340	327	96138	3038041	31,55

TABLE A. LIFE TABLE OF POLAND 2007 (cont.)

TOTAL  
FEMALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
51	95974	0,00374	359	95794	2941903	30,65
52	95615	0,00412	394	95418	2846109	29,77
53	95221	0,00451	430	95006	2750691	28,89
54	94791	0,00494	468	94557	2655685	28,02
55	94323	0,00538	507	94070	2561127	27,15
56	93816	0,00584	548	93542	2467058	26,30
57	93268	0,00632	589	92973	2373516	25,45
58	92679	0,00681	631	92363	2280543	24,61
59	92047	0,00731	673	91711	2188180	23,77
60	91374	0,00784	716	91016	2096469	22,94
61	90658	0,00838	760	90278	2005453	22,12
62	89898	0,00897	806	89495	1915174	21,30
63	89092	0,00960	855	88665	1825679	20,49
64	88237	0,01030	909	87783	1737014	19,69
65	87329	0,01108	968	86845	1649231	18,89
66	86361	0,01197	1034	85844	1562386	18,09
67	85327	0,01300	1109	84772	1476543	17,30
68	84218	0,01417	1194	83621	1391770	16,53
69	83024	0,01554	1290	82379	1308149	15,76
70	81734	0,01712	1400	81035	1225770	15,00
71	80335	0,01898	1524	79573	1144735	14,25
72	78810	0,02114	1666	77977	1065162	13,52
73	77144	0,02368	1827	76231	987185	12,80
74	75317	0,02666	2008	74313	910955	12,09
75	73309	0,03012	2208	72206	836641	11,41
76	71102	0,03412	2426	69889	764436	10,75
77	68676	0,03871	2659	67346	694547	10,11
78	66017	0,04393	2900	64567	627201	9,50
79	63117	0,04978	3142	61546	562634	8,91
80	59975	0,05629	3376	58287	501088	8,35
81	56599	0,06346	3592	54803	442801	7,82
82	53007	0,07130	3779	51117	387998	7,32
83	49228	0,07981	3929	47263	336880	6,84
84	45299	0,08902	4033	43282	289617	6,39
85	41266	0,09895	4083	39225	246335	5,97
86	37183	0,10964	4077	35145	207110	5,57
87	33106	0,12112	4010	31101	171965	5,19
88	29096	0,13347	3883	27155	140864	4,84
89	25213	0,14675	3700	23363	113709	4,51
90	21513	0,16089	3461	19782	90346	4,20
91	18052	0,17623	3181	16461	70564	3,91
92	14870	0,19252	2863	13439	54103	3,64
93	12008	0,20975	2519	10748	40664	3,39
94	9489	0,22792	2163	8408	29915	3,15
95	7326	0,24700	1810	6421	21508	2,94
96	5517	0,26697	1473	4780	15086	2,73
97	4044	0,28781	1164	3462	10306	2,55
98	2880	0,30946	891	2434	6844	2,38
99	1989	0,33189	660	1659	4409	2,22
100	1329	0,35504	472	1093	2751	2,07

TABLE A. LIFE TABLE OF POLAND 2007 (cont.)

URBAN AREAS  
MALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
0	100000	0,00667	667	99402	7135946	71,36
1	99333	0,00040	39	99314	7036544	70,84
2	99294	0,00028	28	99280	6937230	69,87
3	99266	0,00020	20	99256	6837950	68,88
4	99247	0,00016	16	99239	6738694	67,90
5	99231	0,00014	14	99224	6639455	66,91
6	99217	0,00013	13	99210	6540232	65,92
7	99204	0,00012	12	99198	6441021	64,93
8	99192	0,00011	11	99187	6341823	63,93
9	99181	0,00013	12	99175	6242636	62,94
10	99169	0,00015	15	99161	6143462	61,95
11	99154	0,00017	17	99146	6044300	60,96
12	99137	0,00019	19	99127	5945155	59,97
13	99118	0,00022	22	99107	5846027	58,98
14	99096	0,00026	26	99083	5746920	57,99
15	99070	0,00034	34	99054	5647837	57,01
16	99037	0,00045	45	99014	5548783	56,03
17	98992	0,00059	58	98963	5449769	55,05
18	98934	0,00071	71	98899	5350806	54,08
19	98863	0,00082	81	98823	5251907	53,12
20	98782	0,00090	89	98738	5153084	52,17
21	98694	0,00094	93	98647	5054346	51,21
22	98600	0,00097	95	98553	4955699	50,26
23	98505	0,00098	96	98457	4857146	49,31
24	98409	0,00098	97	98360	4758689	48,36
25	98312	0,00100	99	98263	4660329	47,40
26	98213	0,00104	102	98162	4562066	46,45
27	98111	0,00110	108	98057	4463904	45,50
28	98003	0,00116	114	97946	4365847	44,55
29	97890	0,00123	121	97829	4267901	43,60
30	97769	0,00131	128	97705	4170071	42,65
31	97641	0,00140	137	97573	4072366	41,71
32	97504	0,00151	148	97431	3974794	40,77
33	97357	0,00165	161	97277	3877363	39,83
34	97196	0,00181	176	97108	3780086	38,89
35	97020	0,00200	194	96923	3682978	37,96
36	96826	0,00222	215	96718	3586055	37,04
37	96610	0,00248	239	96491	3489337	36,12
38	96371	0,00276	266	96238	3392846	35,21
39	96106	0,00307	295	95958	3296608	34,30
40	95810	0,00342	328	95647	3200650	33,41
41	95483	0,00381	364	95301	3105003	32,52
42	95119	0,00425	404	94916	3009703	31,64
43	94714	0,00474	449	94490	2914786	30,77
44	94266	0,00528	497	94017	2820296	29,92
45	93768	0,00587	551	93493	2726280	29,07
46	93218	0,00652	607	92914	2632787	28,24
47	92610	0,00721	667	92276	2539873	27,43
48	91943	0,00794	730	91578	2447596	26,62
49	91213	0,00870	794	90816	2356019	25,83
50	90419	0,00950	859	89989	2265203	25,05



TABLE A. LIFE TABLE OF POLAND 2007 (cont.)

URBAN AREAS  
MALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
51	89560	0,01031	924	89098	2175213	24,29
52	88636	0,01116	989	88142	2086115	23,54
53	87648	0,01203	1054	87120	1997973	22,80
54	86593	0,01293	1120	86033	1910853	22,07
55	85473	0,01389	1187	84880	1824820	21,35
56	84286	0,01489	1255	83659	1739940	20,64
57	83031	0,01596	1325	82369	1656281	19,95
58	81706	0,01710	1397	81008	1573912	19,26
59	80309	0,01831	1471	79574	1492905	18,59
60	78839	0,01961	1546	78066	1413331	17,93
61	77293	0,02100	1623	76481	1335265	17,28
62	75670	0,02248	1701	74819	1258784	16,64
63	73969	0,02407	1781	73078	1183964	16,01
64	72188	0,02578	1861	71258	1110886	15,39
65	70327	0,02761	1942	69356	1039628	14,78
66	68385	0,02959	2023	67373	970272	14,19
67	66362	0,03171	2105	65309	902899	13,61
68	64257	0,03400	2185	63165	837589	13,03
69	62072	0,03647	2263	60940	774425	12,48
70	59809	0,03912	2340	58639	713484	11,93
71	57469	0,04198	2413	56263	654845	11,39
72	55056	0,04509	2483	53815	598583	10,87
73	52574	0,04848	2549	51299	544768	10,36
74	50025	0,05219	2611	48720	493468	9,86
75	47414	0,05627	2668	46080	444748	9,38
76	44746	0,06077	2719	43387	398668	8,91
77	42027	0,06574	2763	40646	355281	8,45
78	39264	0,07121	2796	37866	314636	8,01
79	36468	0,07720	2815	35060	276770	7,59
80	33653	0,08372	2817	32244	241709	7,18
81	30835	0,09076	2799	29436	209465	6,79
82	28037	0,09832	2756	26659	180029	6,42
83	25280	0,10639	2689	23936	153371	6,07
84	22591	0,11496	2597	21292	129435	5,73
85	19994	0,12406	2480	18754	108143	5,41
86	17513	0,13369	2341	16343	89389	5,10
87	15172	0,14387	2183	14081	73047	4,81
88	12989	0,15465	2009	11985	58966	4,54
89	10980	0,16609	1824	10069	46981	4,28
90	9157	0,17814	1631	8341	36912	4,03
91	7525	0,19106	1438	6807	28571	3,80
92	6088	0,20466	1246	5465	21765	3,58
93	4842	0,21894	1060	4312	16300	3,37
94	3782	0,23389	885	3339	11988	3,17
95	2897	0,24953	723	2536	8649	2,99
96	2174	0,26582	578	1885	6113	2,81
97	1596	0,28277	451	1371	4228	2,65
98	1145	0,30034	344	973	2857	2,50
99	801	0,31853	255	673	1884	2,35
100	546	0,33729	184	454	1211	2,22

TABLE A. LIFE TABLE OF POLAND 2007 (cont.)

URBAN AREAS  
FEMALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
0	100000	0,00550	550	99509	7960654	79,61
1	99450	0,00029	29	99435	7861144	79,05
2	99421	0,00022	22	99410	7761709	78,07
3	99399	0,00017	17	99391	7662299	77,09
4	99382	0,00014	13	99376	7562908	76,10
5	99369	0,00011	11	99363	7463533	75,11
6	99358	0,00009	9	99354	7364169	74,12
7	99349	0,00008	8	99345	7264816	73,12
8	99342	0,00008	8	99338	7165470	72,13
9	99334	0,00010	10	99329	7066133	71,14
10	99324	0,00012	12	99318	6966804	70,14
11	99312	0,00014	14	99305	6867486	69,15
12	99298	0,00015	14	99291	6768181	68,16
13	99284	0,00016	16	99276	6668890	67,17
14	99268	0,00018	17	99260	6569614	66,18
15	99251	0,00020	20	99241	6470354	65,19
16	99231	0,00023	23	99220	6371113	64,20
17	99208	0,00025	25	99196	6271894	63,22
18	99183	0,00027	26	99170	6172698	62,24
19	99157	0,00027	27	99143	6073528	61,25
20	99130	0,00027	27	99116	5974385	60,27
21	99103	0,00027	27	99089	5875268	59,28
22	99076	0,00027	26	99063	5776179	58,30
23	99050	0,00027	26	99036	5677117	57,32
24	99023	0,00028	27	99009	5578080	56,33
25	98996	0,00029	29	98981	5479071	55,35
26	98967	0,00031	31	98952	5380089	54,36
27	98936	0,00033	32	98920	5281138	53,38
28	98904	0,00035	34	98887	5182218	52,40
29	98870	0,00037	37	98852	5083330	51,41
30	98833	0,00040	39	98814	4984479	50,43
31	98794	0,00043	42	98773	4885665	49,45
32	98752	0,00046	45	98729	4786892	48,47
33	98707	0,00050	50	98682	4688163	47,50
34	98657	0,00056	55	98630	4589481	46,52
35	98602	0,00062	61	98571	4490851	45,55
36	98541	0,00070	69	98506	4392280	44,57
37	98472	0,00079	78	98433	4293774	43,60
38	98394	0,00090	89	98349	4195341	42,64
39	98305	0,00103	101	98254	4096991	41,68
40	98204	0,00117	115	98146	3998737	40,72
41	98089	0,00133	131	98023	3900591	39,77
42	97958	0,00151	148	97884	3802567	38,82
43	97810	0,00171	167	97726	3704684	37,88
44	97643	0,00192	187	97549	3606957	36,94
45	97455	0,00215	209	97351	3509408	36,01
46	97246	0,00239	232	97130	3412057	35,09
47	97014	0,00265	257	96885	3314927	34,17
48	96757	0,00293	284	96615	3218042	33,26
49	96473	0,00324	312	96316	3121428	32,36
50	96160	0,00357	343	95989	3025111	31,46

TABLE A. LIFE TABLE OF POLAND 2007 (cont.)

URBAN AREAS  
FEMALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
51	95817	0,00392	376	95629	2929122	30,57
52	95441	0,00431	411	95236	2833493	29,69
53	95030	0,00472	449	94806	2738257	28,81
54	94581	0,00517	489	94337	2643451	27,95
55	94093	0,00563	530	93828	2549114	27,09
56	93563	0,00612	573	93276	2455286	26,24
57	92990	0,00663	617	92682	2362010	25,40
58	92373	0,00715	661	92043	2269328	24,57
59	91713	0,00769	705	91360	2177285	23,74
60	91007	0,00824	750	90633	2085925	22,92
61	90258	0,00881	795	89860	1995293	22,11
62	89462	0,00942	842	89041	1905433	21,30
63	88620	0,01007	892	88174	1816392	20,50
64	87728	0,01078	946	87255	1728218	19,70
65	86782	0,01157	1004	86280	1640963	18,91
66	85778	0,01247	1070	85243	1554682	18,12
67	84708	0,01350	1143	84137	1469439	17,35
68	83565	0,01467	1226	82952	1385302	16,58
69	82339	0,01602	1319	81679	1302350	15,82
70	81020	0,01759	1425	80307	1220671	15,07
71	79595	0,01941	1545	78822	1140364	14,33
72	78050	0,02153	1680	77210	1061542	13,60
73	76370	0,02399	1832	75453	984332	12,89
74	74537	0,02687	2003	73536	908878	12,19
75	72534	0,03022	2192	71438	835343	11,52
76	70343	0,03408	2397	69144	763904	10,86
77	67945	0,03851	2616	66637	694760	10,23
78	65329	0,04354	2844	63907	628123	9,61
79	62485	0,04919	3074	60948	564217	9,03
80	59411	0,05548	3296	57763	503269	8,47
81	56115	0,06241	3502	54364	445506	7,94
82	52612	0,07000	3683	50771	391143	7,43
83	48930	0,07824	3828	47016	340372	6,96
84	45101	0,08716	3931	43136	293356	6,50
85	41170	0,09679	3985	39178	250220	6,08
86	37185	0,10716	3985	35193	211043	5,68
87	33201	0,11830	3928	31237	175850	5,30
88	29273	0,13029	3814	27366	144613	4,94
89	25459	0,14319	3645	23636	117247	4,61
90	21813	0,15694	3423	20102	93611	4,29
91	18390	0,17183	3160	16810	73509	4,00
92	15230	0,18766	2858	13801	56699	3,72
93	12372	0,20441	2529	11108	42898	3,47
94	9843	0,22209	2186	8750	31790	3,23
95	7657	0,24067	1843	6736	23040	3,01
96	5814	0,26015	1513	5058	16305	2,80
97	4302	0,28048	1207	3698	11247	2,61
98	3095	0,30164	934	2628	7549	2,44
99	2161	0,32357	699	1812	4920	2,28
100	1462	0,34624	506	1209	3108	2,13

TABLE A. LIFE TABLE OF POLAND 2007 (cont.)

RURAL AREAS  
MALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
0	100000	0,00643	643	99428	7038070	70,38
1	99357	0,00047	47	99334	6938642	69,84
2	99310	0,00036	35	99292	6839309	68,87
3	99275	0,00027	27	99261	6740016	67,89
4	99248	0,00021	21	99237	6640755	66,91
5	99227	0,00019	18	99218	6541518	65,92
6	99208	0,00018	17	99200	6442300	64,94
7	99191	0,00018	17	99182	6343100	63,95
8	99173	0,00018	18	99165	6243918	62,96
9	99156	0,00018	18	99146	6144754	61,97
10	99137	0,00019	19	99128	6045607	60,98
11	99119	0,00020	20	99109	5946479	59,99
12	99099	0,00022	22	99088	5847371	59,01
13	99077	0,00027	27	99063	5748283	58,02
14	99050	0,00035	35	99033	5649219	57,03
15	99015	0,00048	48	98991	5550187	56,05
16	98967	0,00066	65	98935	5451195	55,08
17	98902	0,00086	85	98859	5352261	54,12
18	98816	0,00105	104	98764	5253402	53,16
19	98712	0,00120	118	98653	5154637	52,22
20	98594	0,00129	127	98530	5055984	51,28
21	98467	0,00132	130	98402	4957454	50,35
22	98337	0,00130	128	98273	4859052	49,41
23	98209	0,00127	125	98147	4760779	48,48
24	98084	0,00123	120	98024	4662632	47,54
25	97964	0,00120	118	97905	4564608	46,59
26	97846	0,00122	119	97786	4466704	45,65
27	97726	0,00129	126	97663	4368917	44,71
28	97600	0,00142	138	97531	4271254	43,76
29	97462	0,00157	153	97386	4173723	42,82
30	97309	0,00166	162	97228	4076338	41,89
31	97147	0,00179	174	97060	3979109	40,96
32	96973	0,00192	186	96880	3882049	40,03
33	96787	0,00205	198	96688	3785169	39,11
34	96589	0,00220	213	96482	3688481	38,19
35	96376	0,00238	229	96261	3591999	37,27
36	96147	0,00257	247	96023	3495738	36,36
37	95899	0,00280	269	95765	3399715	35,45
38	95631	0,00306	293	95485	3303950	34,55
39	95338	0,00336	320	95178	3208465	33,65
40	95018	0,00370	351	94842	3113287	32,77
41	94667	0,00408	386	94473	3018445	31,89
42	94280	0,00451	425	94068	2923971	31,01
43	93855	0,00498	467	93622	2829903	30,15
44	93388	0,00550	513	93132	2736282	29,30
45	92875	0,00607	563	92593	2643150	28,46
46	92311	0,00669	617	92003	2550557	27,63
47	91694	0,00736	675	91357	2458554	26,81
48	91019	0,00809	736	90651	2367197	26,01
49	90283	0,00887	801	89883	2276546	25,22
50	89483	0,00970	868	89049	2186663	24,44

TABLE A. LIFE TABLE OF POLAND 2007 (cont.)

RURAL AREAS  
MALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
51	88615	0,01059	938	88145	2097615	23,67
52	87676	0,01152	1010	87171	2009469	22,92
53	86666	0,01251	1084	86124	1922298	22,18
54	85582	0,01354	1159	85002	1836174	21,46
55	84423	0,01462	1234	83806	1751172	20,74
56	83189	0,01573	1309	82535	1667366	20,04
57	81880	0,01688	1383	81189	1584832	19,36
58	80498	0,01809	1456	79770	1503643	18,68
59	79042	0,01934	1528	78278	1423873	18,01
60	77514	0,02065	1601	76713	1345595	17,36
61	75913	0,02204	1673	75076	1268882	16,71
62	74239	0,02353	1747	73366	1193806	16,08
63	72493	0,02512	1821	71582	1120439	15,46
64	70672	0,02684	1897	69723	1048857	14,84
65	68775	0,02871	1975	67787	979134	14,24
66	66800	0,03075	2054	65773	911346	13,64
67	64746	0,03296	2134	63679	845573	13,06
68	62612	0,03537	2215	61505	781894	12,49
69	60397	0,03800	2295	59249	720390	11,93
70	58102	0,04087	2375	56914	661140	11,38
71	55727	0,04401	2453	54501	604226	10,84
72	53274	0,04746	2528	52010	549725	10,32
73	50746	0,05124	2600	49446	497715	9,81
74	48146	0,05542	2668	46811	448269	9,31
75	45477	0,06004	2731	44112	401458	8,83
76	42747	0,06515	2785	41354	357346	8,36
77	39962	0,07079	2829	38547	315992	7,91
78	37133	0,07699	2859	35704	277445	7,47
79	34274	0,08379	2872	32838	241741	7,05
80	31402	0,09119	2864	29971	208903	6,65
81	28539	0,09922	2832	27123	178932	6,27
82	25707	0,10786	2773	24321	151809	5,91
83	22935	0,11713	2686	21591	127488	5,56
84	20248	0,12703	2572	18962	105897	5,23
85	17676	0,13757	2432	16460	86935	4,92
86	15244	0,14879	2268	14110	70475	4,62
87	12976	0,16068	2085	11934	56364	4,34
88	10891	0,17330	1887	9947	44431	4,08
89	9004	0,18671	1681	8163	34483	3,83
90	7323	0,20085	1471	6587	26320	3,59
91	5852	0,21600	1264	5220	19733	3,37
92	4588	0,23193	1064	4056	14513	3,16
93	3524	0,24865	876	3086	10457	2,97
94	2648	0,26614	705	2295	7372	2,78
95	1943	0,28440	553	1667	5076	2,61
96	1390	0,30338	422	1179	3410	2,45
97	969	0,32307	313	812	2230	2,30
98	656	0,34344	225	543	1418	2,16
99	430	0,36443	157	352	875	2,03
100	274	0,38599	106	221	523	1,91

TABLE A. LIFE TABLE OF POLAND 2007 (cont.)

RURAL AREAS  
FEMALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
0	100000	0,00529	529	99533	8004868	80,05
1	99471	0,00032	32	99455	7905336	79,47
2	99439	0,00025	25	99427	7805880	78,50
3	99414	0,00021	20	99404	7706454	77,52
4	99394	0,00018	18	99385	7607050	76,53
5	99376	0,00017	16	99367	7507665	75,55
6	99359	0,00015	15	99352	7408298	74,56
7	99344	0,00013	13	99338	7308946	73,57
8	99331	0,00011	11	99326	7209609	72,58
9	99320	0,00010	10	99315	7110283	71,59
10	99310	0,00011	11	99304	7010968	70,60
11	99299	0,00013	13	99293	6911664	69,60
12	99286	0,00015	15	99279	6812372	68,61
13	99271	0,00018	17	99263	6713093	67,62
14	99254	0,00020	20	99244	6613830	66,64
15	99234	0,00023	23	99222	6514586	65,65
16	99211	0,00025	25	99199	6415364	64,66
17	99186	0,00028	28	99172	6316165	63,68
18	99158	0,00030	30	99144	6216993	62,70
19	99129	0,00031	30	99114	6117850	61,72
20	99099	0,00030	30	99083	6018736	60,73
21	99068	0,00029	29	99054	5919652	59,75
22	99040	0,00027	27	99026	5820598	58,77
23	99013	0,00027	26	98999	5721572	57,79
24	98986	0,00027	27	98973	5622573	56,80
25	98960	0,00028	28	98946	5523600	55,82
26	98932	0,00030	30	98917	5424654	54,83
27	98902	0,00032	32	98886	5325737	53,85
28	98870	0,00034	34	98853	5226851	52,87
29	98836	0,00036	35	98819	5127998	51,88
30	98801	0,00037	37	98783	5029179	50,90
31	98764	0,00039	39	98745	4930396	49,92
32	98725	0,00041	41	98705	4831652	48,94
33	98685	0,00044	44	98663	4732947	47,96
34	98641	0,00048	47	98617	4634284	46,98
35	98594	0,00053	52	98568	4535666	46,00
36	98542	0,00058	57	98513	4437099	45,03
37	98485	0,00065	64	98452	4338585	44,05
38	98420	0,00074	73	98384	4240133	43,08
39	98348	0,00084	82	98307	4141749	42,11
40	98265	0,00095	94	98219	4043442	41,15
41	98172	0,00109	107	98118	3945224	40,19
42	98065	0,00124	121	98005	3847105	39,23
43	97944	0,00140	137	97875	3749101	38,28
44	97806	0,00159	155	97729	3651226	37,33
45	97651	0,00179	175	97564	3553497	36,39
46	97477	0,00201	196	97379	3455933	35,45
47	97281	0,00224	218	97172	3358554	34,52
48	97063	0,00249	242	96942	3261382	33,60
49	96821	0,00276	267	96688	3164440	32,68
50	96554	0,00305	295	96407	3067752	31,77

TABLE A. LIFE TABLE OF POLAND 2007 (cont.)

RURAL AREAS  
FEMALES

Age	Number of survivors	Probability of dying	Number deceased	Stationary population		Life expectancy
				at age x	cumulated	
x	$l_x$	$q_x$	$d_x$	$L_x$	$T_x$	$e_x$
51	96259	0,00336	324	96098	2971345	30,87
52	95936	0,00370	355	95758	2875248	29,97
53	95581	0,00405	387	95388	2779489	29,08
54	95194	0,00442	421	94984	2684102	28,20
55	94774	0,00481	455	94546	2589118	27,32
56	94318	0,00521	491	94073	2494572	26,45
57	93827	0,00562	527	93563	2400499	25,58
58	93300	0,00605	564	93017	2306936	24,73
59	92735	0,00650	602	92434	2213919	23,87
60	92133	0,00697	642	91812	2121485	23,03
61	91491	0,00747	684	91149	2029673	22,18
62	90807	0,00803	729	90442	1938524	21,35
63	90078	0,00864	779	89688	1848082	20,52
64	89299	0,00934	834	88882	1758394	19,69
65	88465	0,01012	896	88018	1669511	18,87
66	87570	0,01103	966	87087	1581494	18,06
67	86604	0,01207	1045	86081	1494407	17,26
68	85559	0,01328	1136	84991	1408325	16,46
69	84423	0,01468	1239	83803	1323335	15,68
70	83184	0,01632	1357	82505	1239531	14,90
71	81826	0,01824	1493	81080	1157026	14,14
72	80334	0,02050	1647	79510	1075946	13,39
73	78687	0,02316	1823	77775	996436	12,66
74	76864	0,02628	2020	75854	918661	11,95
75	74844	0,02992	2239	73724	842807	11,26
76	72604	0,03413	2478	71365	769083	10,59
77	70126	0,03896	2732	68760	697718	9,95
78	67394	0,04444	2995	65896	628958	9,33
79	64399	0,05059	3258	62770	563062	8,74
80	61141	0,05744	3512	59385	500292	8,18
81	57629	0,06497	3744	55757	440907	7,65
82	53885	0,07322	3945	51912	385150	7,15
83	49940	0,08217	4104	47888	333238	6,67
84	45836	0,09186	4211	43730	285350	6,23
85	41625	0,10231	4259	39496	241619	5,80
86	37367	0,11355	4243	35245	202124	5,41
87	33124	0,12562	4161	31043	166878	5,04
88	28963	0,13858	4014	26956	135835	4,69
89	24949	0,15250	3805	23046	108880	4,36
90	21144	0,16732	3538	19375	85833	4,06
91	17606	0,18336	3228	15992	66458	3,77
92	14378	0,20037	2881	12937	50466	3,51
93	11497	0,21834	2510	10242	37528	3,26
94	8987	0,23726	2132	7921	27287	3,04
95	6854	0,25711	1762	5973	19366	2,83
96	5092	0,27785	1415	4385	13393	2,63
97	3677	0,29945	1101	3127	9008	2,45
98	2576	0,32186	829	2162	5881	2,28
99	1747	0,34502	603	1446	3720	2,13
100	1144	0,36887	422	933	2274	1,99

TABLE B. ABRIDGED LIFE TABLE OF POLAND 2007

Age	Males						Females					
	Number of survivors		Probability of dying		Life expectancy		Number of survivors		Probability of dying		Life expectancy	
	$l_x$	$S(l_x)$	$q_x$	$S(q_x)$	$e_x$	$S(e_x)$	$l_x$	$S(l_x)$	$q_x$	$S(q_x)$	$e_x$	$S(e_x)$
<b>TOTAL</b>												
0	100000	0	0,00657	0,00018	<b>70,96</b>	0,03	100000	0	0,00541	0,00017	<b>79,74</b>	0,03
1	99343	18	0,00115	0,00008	<b>70,43</b>	0,03	99459	17	0,00088	0,00007	<b>79,17</b>	0,03
5	99229	20	0,00075	0,00006	<b>66,51</b>	0,03	99372	18	0,00055	0,00006	<b>75,24</b>	0,03
10	99154	21	0,00110	0,00007	<b>61,56</b>	0,03	99317	19	0,00075	0,00006	<b>70,28</b>	0,03
15	99045	22	0,00350	0,00011	<b>56,62</b>	0,03	99243	20	0,00128	0,00007	<b>65,33</b>	0,03
20	98698	24	0,00543	0,00013	<b>51,81</b>	0,03	99115	21	0,00137	0,00007	<b>60,41</b>	0,03
25	98161	27	0,00596	0,00014	<b>47,08</b>	0,03	98979	22	0,00163	0,00007	<b>55,49</b>	0,03
30	97577	30	0,00838	0,00017	<b>42,35</b>	0,03	98818	23	0,00225	0,00009	<b>50,58</b>	0,02
35	96759	34	0,01311	0,00023	<b>37,68</b>	0,03	98596	25	0,00376	0,00013	<b>45,69</b>	0,02
40	95491	40	0,02184	0,00030	<b>33,15</b>	0,03	98225	27	0,00710	0,00017	<b>40,85</b>	0,02
45	93405	48	0,03606	0,00035	<b>28,83</b>	0,03	97528	32	0,01257	0,00020	<b>36,12</b>	0,02
50	90037	57	0,05537	0,00042	<b>24,81</b>	0,02	96301	38	0,02054	0,00026	<b>31,55</b>	0,02
55	85052	66	0,07909	0,00053	<b>21,10</b>	0,02	94323	44	0,03127	0,00033	<b>27,15</b>	0,02
60	78325	75	0,10964	0,00078	<b>17,69</b>	0,02	91374	53	0,04427	0,00048	<b>22,94</b>	0,02
65	69738	92	0,15164	0,00097	<b>14,55</b>	0,02	87329	67	0,06406	0,00059	<b>18,89</b>	0,02
70	59163	103	0,21115	0,00116	<b>11,69</b>	0,02	81734	81	0,10308	0,00073	<b>15,00</b>	0,02
75	46671	106	0,29827	0,00147	<b>9,14</b>	0,02	73309	94	0,18189	0,00097	<b>11,41</b>	0,01
80	32751	101	0,41922	0,00208	<b>6,95</b>	0,02	59975	105	0,31194	0,00135	<b>8,35</b>	0,01
85	19021	91	1,00000	0,00000	<b>5,20</b>	0,01	41266	109	1,00000	0,00000	<b>5,97</b>	0,01
<b>URBAN AREAS</b>												
0	100000	0	0,00667	0,00024	<b>71,36</b>	0,04	100000	0	0,00550	0,00022	<b>79,61</b>	0,04
1	99333	24	0,00103	0,00010	<b>70,84</b>	0,04	99450	22	0,00081	0,00009	<b>79,05</b>	0,03
5	99231	26	0,00063	0,00008	<b>66,91</b>	0,04	99369	24	0,00045	0,00007	<b>75,11</b>	0,03
10	99169	27	0,00099	0,00009	<b>61,95</b>	0,04	99324	25	0,00073	0,00008	<b>70,14</b>	0,03
15	99070	28	0,00291	0,00013	<b>57,01</b>	0,04	99251	26	0,00122	0,00009	<b>65,19</b>	0,03
20	98782	31	0,00476	0,00016	<b>52,17</b>	0,04	99130	28	0,00135	0,00008	<b>60,27</b>	0,03
25	98312	35	0,00552	0,00017	<b>47,40</b>	0,04	98996	29	0,00164	0,00009	<b>55,35</b>	0,03
30	97769	38	0,00766	0,00021	<b>42,65</b>	0,04	98833	30	0,00234	0,00011	<b>50,43</b>	0,03
35	97020	43	0,01247	0,00029	<b>37,96</b>	0,04	98602	32	0,00404	0,00017	<b>45,55</b>	0,03
40	95810	51	0,02132	0,00038	<b>33,41</b>	0,03	98204	36	0,00762	0,00023	<b>40,72</b>	0,03
45	93768	62	0,03572	0,00045	<b>29,07</b>	0,03	97455	42	0,01329	0,00026	<b>36,01</b>	0,03
50	90419	73	0,05470	0,00052	<b>25,05</b>	0,03	96160	49	0,02150	0,00032	<b>31,46</b>	0,03
55	85473	83	0,07762	0,00065	<b>21,35</b>	0,03	94093	56	0,03279	0,00040	<b>27,09</b>	0,03
60	78839	95	0,10796	0,00096	<b>17,93</b>	0,03	91007	67	0,04643	0,00059	<b>22,92</b>	0,03
65	70327	115	0,14957	0,00122	<b>14,78</b>	0,03	86782	84	0,06640	0,00074	<b>18,91</b>	0,02
70	59809	130	0,20723	0,00146	<b>11,93</b>	0,03	81020	101	0,10473	0,00092	<b>15,07</b>	0,02
75	47414	135	0,29025	0,00189	<b>9,38</b>	0,03	72534	118	0,18093	0,00126	<b>11,52</b>	0,02
80	33653	132	0,40588	0,00275	<b>7,18</b>	0,02	59411	133	0,30703	0,00176	<b>8,47</b>	0,02
85	19994	122	1,00000	0,00000	<b>5,41</b>	0,01	41170	140	1,00000	0,00000	<b>6,08</b>	0,01
<b>RURAL AREAS</b>												
0	100000	0	0,00643	0,00028	<b>70,38</b>	0,05	100000	0	0,00529	0,00026	<b>80,05</b>	0,05
1	99357	28	0,00131	0,00013	<b>69,84</b>	0,05	99471	26	0,00096	0,00011	<b>79,47</b>	0,04
5	99227	30	0,00090	0,00010	<b>65,92</b>	0,05	99376	28	0,00066	0,00009	<b>75,55</b>	0,04
10	99137	32	0,00123	0,00010	<b>60,98</b>	0,05	99310	30	0,00076	0,00008	<b>70,60</b>	0,04
15	99015	34	0,00426	0,00018	<b>56,05</b>	0,05	99234	31	0,00136	0,00011	<b>65,65</b>	0,04
20	98594	38	0,00639	0,00022	<b>51,28</b>	0,05	99099	33	0,00140	0,00010	<b>60,73</b>	0,04
25	97964	44	0,00668	0,00024	<b>46,59</b>	0,05	98960	34	0,00160	0,00012	<b>55,82</b>	0,04
30	97309	49	0,00959	0,00029	<b>41,89</b>	0,05	98801	36	0,00210	0,00014	<b>50,90</b>	0,04
35	96376	57	0,01409	0,00038	<b>37,27</b>	0,04	98594	39	0,00333	0,00019	<b>46,00</b>	0,04
40	95018	66	0,02255	0,00046	<b>32,77</b>	0,04	98265	43	0,00625	0,00026	<b>41,15</b>	0,04
45	92875	78	0,03653	0,00055	<b>28,46</b>	0,04	97651	49	0,01124	0,00033	<b>36,39</b>	0,04
50	89483	91	0,05655	0,00070	<b>24,44</b>	0,04	96554	59	0,01844	0,00044	<b>31,77</b>	0,04
55	84423	106	0,08184	0,00091	<b>20,74</b>	0,04	94774	71	0,02787	0,00055	<b>27,32</b>	0,04
60	77514	124	0,11274	0,00134	<b>17,36</b>	0,04	92133	87	0,03980	0,00080	<b>23,03</b>	0,03
65	68775	153	0,15519	0,00160	<b>14,24</b>	0,03	88465	112	0,05970	0,00095	<b>18,87</b>	0,03
70	58102	170	0,21729	0,00188	<b>11,38</b>	0,03	83184	135	0,10026	0,00118	<b>14,90</b>	0,03
75	45477	172	0,30949	0,00231	<b>8,83</b>	0,03	74844	156	0,18309	0,00153	<b>11,26</b>	0,02
80	31402	159	0,43711	0,00318	<b>6,65</b>	0,03	61141	171	0,31919	0,00211	<b>8,18</b>	0,02
85	17676	134	1,00000	0,00000	<b>4,92</b>	0,02	41625	175	1,00000	0,00000	<b>5,80</b>	0,01



TABLE C. LIFE EXPECTANCY IN POLAND BY VOIVODSHIPS IN 2007

Voivodship	Males					Females				
	by age									
	0	15	30	45	60	0	15	30	45	60
<b>POLSKA</b>	<b>70,96</b>	56,62	42,35	28,83	17,69	<b>79,74</b>	65,33	50,58	36,12	22,94
Dolnośląskie	<b>70,42</b>	56,18	41,91	28,52	17,51	<b>79,04</b>	64,67	49,94	35,56	22,55
Kujawsko-Pomorskie	<b>70,39</b>	56,11	41,89	28,43	17,19	<b>79,14</b>	64,76	50,03	35,56	22,56
Lubelskie	<b>70,16</b>	55,85	41,61	28,30	17,32	<b>80,16</b>	65,74	51,03	36,58	23,14
Lubuskie	<b>70,26</b>	55,99	41,76	28,37	17,10	<b>78,93</b>	64,61	49,90	35,48	22,37
Łódzkie	<b>68,65</b>	54,17	39,95	26,96	16,81	<b>78,68</b>	64,22	49,51	35,27	22,35
Małopolskie	<b>72,45</b>	58,09	43,70	29,87	18,27	<b>80,72</b>	66,30	51,45	36,84	23,41
Mazowieckie	<b>71,28</b>	56,87	42,71	29,27	18,33	<b>80,44</b>	65,97	51,24	36,74	23,50
Opolskie	<b>72,13</b>	57,74	43,39	29,33	17,60	<b>80,00</b>	65,49	50,72	36,19	22,83
Podkarpackie	<b>72,87</b>	58,53	44,17	30,31	18,39	<b>80,90</b>	66,52	51,71	37,11	23,49
Podlaskie	<b>71,54</b>	57,08	42,96	29,62	18,58	<b>80,88</b>	66,58	51,88	37,38	23,93
Pomorskie	<b>71,55</b>	57,25	42,92	29,23	17,90	<b>79,59</b>	65,16	50,39	35,89	22,85
Śląskie	<b>70,66</b>	56,34	41,99	28,42	17,32	<b>78,77</b>	64,41	49,64	35,28	22,30
Świętokrzyskie	<b>71,00</b>	56,59	42,33	28,99	17,82	<b>80,61</b>	66,14	51,36	36,82	23,44
Warmińsko-Mazurskie	<b>69,96</b>	55,54	41,39	28,08	17,18	<b>79,66</b>	65,24	50,53	36,08	23,01
Wielkopolskie	<b>71,42</b>	57,13	42,78	29,10	17,74	<b>79,52</b>	65,11	50,33	35,86	22,62
Zachodniopomorskie	<b>70,64</b>	56,49	42,17	28,58	17,34	<b>79,24</b>	64,91	50,17	35,80	22,64
<b>URBAN AREAS</b>	<b>71,36</b>	<b>57,01</b>	<b>42,65</b>	<b>29,07</b>	<b>17,93</b>	<b>79,61</b>	<b>65,19</b>	<b>50,43</b>	<b>36,01</b>	<b>22,92</b>
Dolnośląskie	<b>70,62</b>	56,40	42,10	28,73	17,77	<b>78,98</b>	64,62	49,90	35,53	22,61
Kujawsko-Pomorskie	<b>70,70</b>	56,44	42,12	28,65	17,50	<b>79,11</b>	64,93	50,16	35,69	22,71
Lubelskie	<b>71,70</b>	57,29	42,91	29,50	18,18	<b>80,11</b>	65,62	50,89	36,51	23,11
Lubuskie	<b>70,77</b>	56,56	42,20	28,66	17,28	<b>79,17</b>	64,80	50,08	35,61	22,49
Łódzkie	<b>68,75</b>	54,20	39,92	26,88	16,79	<b>78,33</b>	63,79	49,08	34,93	22,15
Małopolskie	<b>72,77</b>	58,51	44,02	30,14	18,63	<b>80,57</b>	66,14	51,30	36,69	23,31
Mazowieckie	<b>72,29</b>	57,82	43,55	29,95	18,74	<b>80,51</b>	66,01	51,27	36,76	23,57
Opolskie	<b>72,24</b>	57,98	43,60	29,50	17,71	<b>79,99</b>	65,38	50,61	36,13	22,76
Podkarpackie	<b>73,82</b>	59,30	44,82	30,91	18,90	<b>80,75</b>	66,44	51,62	37,09	23,50
Podlaskie	<b>72,64</b>	58,08	43,87	30,32	18,98	<b>81,04</b>	66,74	52,00	37,50	24,10
Pomorskie	<b>71,81</b>	57,54	43,15	29,47	18,17	<b>79,73</b>	65,21	50,40	35,90	22,91
Śląskie	<b>70,49</b>	56,18	41,83	28,28	17,27	<b>78,50</b>	64,18	49,40	35,08	22,23
Świętokrzyskie	<b>71,81</b>	57,41	43,07	29,62	18,17	<b>80,10</b>	65,67	50,93	36,49	23,21
Warmińsko-Mazurskie	<b>70,75</b>	56,27	41,96	28,41	17,45	<b>80,09</b>	65,63	50,87	36,40	23,30
Wielkopolskie	<b>72,15</b>	57,79	43,30	29,45	18,03	<b>79,53</b>	65,07	50,29	35,83	22,65
Zachodniopomorskie	<b>71,05</b>	56,95	42,56	28,87	17,60	<b>79,25</b>	64,88	50,20	35,88	22,73
<b>RURAL AREAS</b>	<b>70,38</b>	<b>56,05</b>	<b>41,89</b>	<b>28,46</b>	<b>17,36</b>	<b>80,05</b>	<b>65,65</b>	<b>50,90</b>	<b>36,39</b>	<b>23,03</b>
Dolnośląskie	<b>69,84</b>	55,54	41,31	27,88	16,74	<b>79,19</b>	64,80	50,04	35,63	22,39
Kujawsko-Pomorskie	<b>69,88</b>	55,56	41,48	28,03	16,65	<b>79,10</b>	64,46	49,82	35,35	22,27
Lubelskie	<b>69,03</b>	54,81	40,69	27,45	16,81	<b>80,26</b>	65,90	51,20	36,67	23,20
Lubuskie	<b>69,31</b>	54,94	40,94	27,79	16,72	<b>78,43</b>	64,17	49,52	35,16	22,09
Łódzkie	<b>68,57</b>	54,19	40,07	27,17	16,91	<b>79,55</b>	65,20	50,49	36,07	22,79
Małopolskie	<b>72,11</b>	57,66	43,36	29,59	17,88	<b>80,88</b>	66,47	51,61	37,00	23,50
Mazowieckie	<b>69,57</b>	55,25	41,24	28,06	17,60	<b>80,35</b>	65,93	51,23	36,76	23,37
Opolskie	<b>72,02</b>	57,49	43,19	29,14	17,50	<b>79,98</b>	65,58	50,81	36,22	22,89
Podkarpackie	<b>72,27</b>	58,04	43,76	29,94	18,09	<b>81,03</b>	66,61	51,81	37,16	23,51
Podlaskie	<b>70,13</b>	55,79	41,81	28,77	18,17	<b>80,76</b>	66,43	51,80	37,29	23,77
Pomorskie	<b>70,87</b>	56,53	42,27	28,58	17,16	<b>79,33</b>	65,03	50,32	35,82	22,64
Śląskie	<b>71,37</b>	56,97	42,66	29,03	17,56	<b>79,90</b>	65,41	50,64	36,15	22,57
Świętokrzyskie	<b>70,36</b>	55,94	41,75	28,49	17,56	<b>81,03</b>	66,54	51,74	37,10	23,59
Warmińsko-Mazurskie	<b>68,79</b>	54,42	40,48	27,50	16,69	<b>78,94</b>	64,57	49,91	35,48	22,49
Wielkopolskie	<b>70,53</b>	56,31	42,12	28,64	17,36	<b>79,53</b>	65,16	50,38	35,89	22,55
Zachodniopomorskie	<b>69,71</b>	55,44	41,29	27,88	16,70	<b>79,11</b>	64,87	50,02	35,52	22,36

TABLE D. LIFE EXPECTANCY IN POLAND BY SUBREGIONS IN 2007

Subregions	Males					Females				
	by age									
	0	15	30	45	60	0	15	30	45	60
	<b>Total</b>									
1 jeleniogórski	<b>70,0</b>	55,6	41,5	28,1	17,1	<b>78,9</b>	64,5	49,7	35,4	22,3
2 legnicko-głogowski	<b>70,5</b>	56,3	41,9	28,5	17,0	<b>79,4</b>	64,8	50,1	35,8	22,8
3 wałbrzyski	<b>69,2</b>	55,1	40,8	27,6	17,2	<b>78,2</b>	63,8	49,0	34,7	21,9
4 wrocławski	<b>70,0</b>	55,6	41,4	28,2	16,9	<b>78,8</b>	64,5	49,8	35,4	22,2
5 m. Wrocław	<b>72,2</b>	58,2	43,8	30,0	18,8	<b>79,9</b>	65,7	50,9	36,5	23,4
6 bydgosko-toruński	<b>71,8</b>	57,4	43,1	29,5	18,0	<b>79,7</b>	65,4	50,7	36,2	23,0
7 grudziądzki	<b>70,4</b>	56,2	41,8	28,2	16,9	<b>78,7</b>	64,2	49,6	35,1	22,2
8 wrocławski	<b>69,1</b>	54,9	40,9	27,6	16,6	<b>78,8</b>	64,4	49,6	35,2	22,3
9 biały	<b>69,2</b>	54,7	40,6	27,5	16,9	<b>79,5</b>	65,0	50,4	36,1	22,8
10 chełmsko-zamojski	<b>69,7</b>	55,6	41,4	27,9	16,9	<b>80,5</b>	66,1	51,3	36,8	23,2
11 lubelski	<b>70,8</b>	56,5	42,2	28,9	17,8	<b>80,1</b>	65,7	50,9	36,5	23,1
12 puławski	<b>70,5</b>	56,1	41,8	28,5	17,5	<b>80,2</b>	65,9	51,3	36,8	23,4
13 gorzowski	<b>70,4</b>	56,2	42,1	28,4	16,8	<b>79,0</b>	64,7	50,0	35,6	22,4
14 zielonogórski	<b>70,2</b>	55,8	41,6	28,4	17,3	<b>78,9</b>	64,5	49,8	35,4	22,3
15 łódzki	<b>69,0</b>	54,3	39,9	27,0	16,7	<b>78,1</b>	63,7	49,0	34,8	22,0
16 m. Łódź	<b>68,0</b>	53,4	39,1	26,3	16,6	<b>77,9</b>	63,4	48,7	34,6	22,0
17 piotrkowski	<b>68,8</b>	54,6	40,4	27,3	17,1	<b>79,4</b>	64,9	50,2	36,0	22,9
18 sieradzki	<b>69,4</b>	54,9	40,7	27,4	17,1	<b>79,5</b>	65,1	50,3	36,0	22,7
19 skierniewicki	<b>68,8</b>	54,4	40,3	27,4	16,8	<b>79,2</b>	64,8	50,1	35,7	22,5
20 krakowski	<b>71,9</b>	57,3	42,9	29,1	17,5	<b>80,3</b>	65,9	51,0	36,4	23,0
21 m. Kraków	<b>73,5</b>	59,3	44,7	30,8	19,1	<b>80,6</b>	66,1	51,3	36,7	23,3
22 nowosądecki	<b>72,6</b>	58,2	43,8	30,0	18,4	<b>81,2</b>	66,8	52,0	37,4	23,8
23 oświęcimski	<b>71,8</b>	57,6	43,3	29,5	17,9	<b>80,5</b>	66,1	51,3	36,6	23,4
24 tarnowski	<b>72,2</b>	57,7	43,5	29,7	18,1	<b>81,1</b>	66,6	51,7	37,0	23,5
25 ciechanowsko-płocki	<b>69,1</b>	54,7	40,6	27,6	16,9	<b>79,3</b>	64,9	50,3	35,8	22,8
26 ostrołęcko-siedlecki	<b>70,0</b>	55,6	41,4	28,3	17,5	<b>80,5</b>	66,1	51,4	36,8	23,4
27 radomski	<b>69,9</b>	55,7	41,6	28,4	17,8	<b>79,7</b>	65,5	50,8	36,5	23,1
28 m. st. Warszawa	<b>74,0</b>	59,4	45,0	31,1	19,6	<b>81,1</b>	66,6	51,8	37,3	24,0
29 warszawski wschodni	<b>69,7</b>	55,3	41,5	28,3	17,8	<b>80,4</b>	65,8	51,1	36,5	23,3
30 warszawski zachodni	<b>71,1</b>	56,8	42,7	29,1	18,1	<b>80,1</b>	65,4	50,6	36,2	23,0
31 nyski	<b>71,2</b>	56,7	42,3	28,4	17,0	<b>79,6</b>	65,3	50,6	36,0	22,8
32 opolski	<b>72,7</b>	58,4	44,1	30,0	18,0	<b>80,3</b>	65,6	50,8	36,3	22,8
33 krośnieński	<b>72,4</b>	58,3	43,8	30,1	18,1	<b>81,0</b>	66,5	51,8	37,4	23,8
34 przemycki	<b>72,1</b>	57,7	43,5	29,6	18,0	<b>80,1</b>	65,7	50,8	36,1	22,6
35 rzeszowski	<b>73,8</b>	59,5	45,0	31,0	18,9	<b>81,2</b>	67,0	52,1	37,5	23,8
36 tarnobrzeczki	<b>72,8</b>	58,3	44,1	30,2	18,3	<b>81,0</b>	66,7	51,8	37,2	23,6
37 białostocki	<b>72,5</b>	57,8	43,5	30,0	18,7	<b>81,0</b>	66,6	51,9	37,3	24,0
38 łomżyński	<b>70,8</b>	56,6	42,4	29,2	18,5	<b>80,6</b>	66,4	51,8	37,4	23,8
39 suwalski	<b>71,1</b>	56,6	42,9	29,6	18,5	<b>81,1</b>	66,7	52,0	37,4	24,0
40 gdański	<b>71,6</b>	57,3	43,0	29,4	17,8	<b>79,7</b>	65,3	50,6	36,0	22,8
41 słupski	<b>70,3</b>	56,1	41,8	28,2	17,0	<b>78,9</b>	64,6	49,9	35,4	22,3
42 starogardzki	<b>70,4</b>	56,1	41,7	28,1	16,9	<b>78,9</b>	64,4	49,6	35,2	22,1
43 trójmiejski	<b>72,9</b>	58,6	44,1	30,3	18,8	<b>80,2</b>	65,7	50,9	36,4	23,4
44 bielski	<b>72,0</b>	57,6	43,2	29,5	18,0	<b>79,8</b>	65,3	50,5	36,1	22,6
45 bytomski	<b>70,3</b>	56,1	41,7	28,2	17,4	<b>78,4</b>	64,0	49,3	35,0	22,1
46 częstochowski	<b>69,7</b>	55,4	41,2	27,8	17,1	<b>79,5</b>	65,0	50,2	35,9	22,8
47 gliwicki	<b>71,9</b>	57,4	43,1	29,4	18,0	<b>79,0</b>	64,4	49,7	35,3	22,6
48 katowicki	<b>69,1</b>	55,0	40,6	27,4	17,0	<b>77,2</b>	63,1	48,3	34,0	21,5
49 rybnicki	<b>71,7</b>	57,3	42,8	28,8	17,0	<b>79,0</b>	64,7	49,8	35,5	22,3

TABLE D. LIFE EXPECTANCY IN POLAND BY SUBREGIONS IN 2007 (cont.)

Subregions	Males					Females				
	by age									
	0	15	30	45	60	0	15	30	45	60
<b>Total (cont.)</b>										
50 sosnowiecki	<b>69,8</b>	55,3	41,1	27,7	16,8	<b>78,5</b>	64,3	49,6	35,4	22,4
51 tyski	<b>72,0</b>	57,7	43,3	29,5	17,6	<b>79,4</b>	64,9	50,0	35,5	22,3
52 kielecki	<b>71,2</b>	56,7	42,4	29,1	17,9	<b>80,5</b>	66,1	51,3	36,8	23,4
53 sandomiersko-jędrzejowski	<b>70,8</b>	56,4	42,2	28,9	17,7	<b>80,8</b>	66,2	51,4	36,9	23,4
54 elbląski	<b>69,9</b>	55,4	41,3	28,0	17,0	<b>79,2</b>	64,9	50,3	35,8	22,8
55 etcki	<b>69,6</b>	55,1	41,0	27,8	17,3	<b>79,5</b>	64,9	50,3	35,9	23,0
56 olsztyński	<b>70,2</b>	55,8	41,6	28,3	17,3	<b>80,0</b>	65,6	50,9	36,4	23,2
57 kaliski	<b>70,9</b>	56,6	42,4	28,9	17,5	<b>79,6</b>	65,2	50,3	35,8	22,4
58 koniński	<b>70,8</b>	56,4	42,1	28,7	17,4	<b>79,7</b>	65,3	50,6	36,2	22,9
59 leszczyński	<b>71,6</b>	57,2	42,7	28,9	17,5	<b>79,0</b>	64,7	50,0	35,5	22,3
60 pilski	<b>70,1</b>	56,0	41,9	28,5	17,3	<b>79,3</b>	64,8	50,0	35,7	22,5
61 poznański	<b>71,7</b>	57,6	43,1	29,2	17,6	<b>79,1</b>	64,7	49,9	35,4	22,0
62 m. Poznań	<b>73,3</b>	58,8	44,3	30,2	18,8	<b>79,8</b>	65,4	50,6	36,1	23,1
63 koszaliński	<b>70,4</b>	56,2	42,0	28,4	16,9	<b>79,0</b>	64,9	50,1	35,8	22,7
64 stargardzki	<b>70,3</b>	56,1	42,0	28,5	17,2	<b>79,5</b>	65,2	50,4	35,8	22,5
65 m. Szczecin	<b>71,4</b>	57,2	42,7	28,8	17,9	<b>79,5</b>	64,8	50,0	35,7	22,5
66 szczeciński	<b>70,5</b>	56,4	42,0	28,6	17,4	<b>79,0</b>	64,7	50,1	35,8	22,8
<b>Urban areas</b>										
1 jeleniogórski	<b>70,1</b>	55,7	41,5	28,3	17,3	<b>78,7</b>	64,3	49,7	35,4	22,5
2 legnicko-głogowski	<b>70,7</b>	56,5	42,2	28,9	17,3	<b>79,5</b>	64,8	50,1	35,8	22,7
3 wałbrzyski	<b>69,1</b>	54,9	40,6	27,4	17,3	<b>77,8</b>	63,5	48,7	34,4	21,7
4 wrocławski	<b>70,0</b>	55,6	41,4	28,3	17,0	<b>78,3</b>	64,1	49,4	35,0	22,0
5 m. Wrocław	<b>72,2</b>	58,2	43,8	30,0	18,8	<b>79,9</b>	65,7	50,9	36,5	23,4
6 bydgosko-toruński	<b>71,9</b>	57,5	43,1	29,4	18,1	<b>79,7</b>	65,5	50,8	36,2	23,2
7 grudziądzki	<b>70,0</b>	56,1	41,6	28,1	17,1	<b>78,3</b>	64,2	49,5	35,0	21,9
8 wrocławski	<b>69,4</b>	55,1	41,0	27,8	16,9	<b>78,6</b>	64,4	49,6	35,3	22,5
9 biański	<b>69,8</b>	55,2	40,9	28,0	17,3	<b>79,8</b>	65,1	50,6	36,1	22,6
10 chełmsko-zamojski	<b>71,7</b>	57,4	43,0	29,5	17,9	<b>80,4</b>	65,9	51,0	36,6	22,9
11 lubelski	<b>72,2</b>	57,8	43,4	29,9	18,7	<b>80,1</b>	65,6	50,8	36,4	23,2
12 puławski	<b>71,6</b>	57,1	42,8	29,4	17,7	<b>80,0</b>	65,7	51,2	36,9	23,6
13 gorzowski	<b>71,0</b>	56,9	42,6	28,8	17,1	<b>79,3</b>	64,9	50,2	35,7	22,5
14 zielonogórski	<b>70,6</b>	56,4	41,9	28,6	17,4	<b>79,1</b>	64,7	50,0	35,5	22,5
15 łódzki	<b>68,8</b>	53,9	39,6	26,5	16,5	<b>77,5</b>	63,2	48,5	34,5	21,7
16 m. Łódź	<b>68,0</b>	53,4	39,1	26,3	16,6	<b>77,9</b>	63,4	48,7	34,6	22,0
17 piotrkowski	<b>69,7</b>	55,4	41,1	27,7	17,3	<b>79,5</b>	64,9	50,3	36,1	23,1
18 sieradzki	<b>70,7</b>	56,1	41,9	28,4	17,6	<b>79,2</b>	64,5	49,7	35,5	22,2
19 skierniewicki	<b>68,7</b>	54,3	40,1	27,2	16,7	<b>78,8</b>	64,3	49,6	35,3	22,3
20 krakowski	<b>71,5</b>	57,2	42,8	28,8	17,7	<b>80,3</b>	65,7	50,9	36,2	22,8
21 m. Kraków	<b>73,5</b>	59,3	44,7	30,8	19,1	<b>80,6</b>	66,1	51,3	36,7	23,3
22 nowosądecki	<b>73,2</b>	58,8	44,3	30,3	18,8	<b>81,2</b>	66,8	51,9	37,2	23,7
23 oświęcimski	<b>71,7</b>	57,7	43,1	29,3	18,0	<b>79,7</b>	65,3	50,6	36,0	22,8
24 tarnowski	<b>72,1</b>	57,5	43,1	29,6	18,2	<b>80,9</b>	66,7	51,8	37,2	23,7
25 ciechanowsko-płocki	<b>69,4</b>	55,1	40,8	28,0	17,0	<b>79,3</b>	64,8	50,1	35,7	22,8
26 ostrołęcko-siedlecki	<b>70,7</b>	56,3	42,0	28,6	17,3	<b>80,1</b>	65,7	50,9	36,4	23,0
27 radomski	<b>70,6</b>	56,4	42,2	28,9	18,0	<b>79,7</b>	65,3	50,6	36,2	23,0
28 m. st. Warszawa	<b>74,0</b>	59,4	45,0	31,1	19,6	<b>81,1</b>	66,6	51,8	37,3	24,0
29 warszawski wschodni	<b>70,0</b>	55,6	41,7	28,3	17,6	<b>80,0</b>	65,5	50,8	36,3	23,1
30 warszawski zachodni	<b>71,2</b>	56,7	42,6	28,9	17,6	<b>79,4</b>	64,6	49,8	35,3	22,4
31 nyski	<b>71,5</b>	56,9	42,7	28,7	16,9	<b>79,9</b>	65,5	50,7	36,2	22,9

TABLE D. LIFE EXPECTANCY IN POLAND BY SUBREGIONS IN 2007 (cont.)

Subregions	Males					Females				
	by age									
	0	15	30	45	60	0	15	30	45	60
<b>Urban areas (cont.)</b>										
32 opolski	<b>72,7</b>	58,7	44,2	30,1	18,3	<b>80,1</b>	65,3	50,5	36,1	22,7
33 krośnieński	<b>72,9</b>	58,4	44,0	30,3	18,1	<b>80,4</b>	66,0	51,3	37,2	23,6
34 przemyski	<b>72,1</b>	57,8	43,5	29,7	18,0	<b>79,6</b>	65,4	50,5	35,8	22,1
35 rzeszowski	<b>75,2</b>	60,4	45,8	31,8	19,5	<b>81,7</b>	67,5	52,7	38,1	24,4
36 tarnobrzeski	<b>74,2</b>	59,7	45,3	31,2	19,4	<b>80,7</b>	66,3	51,5	36,9	23,4
37 białostocki	<b>73,3</b>	58,7	44,3	30,7	19,1	<b>81,3</b>	66,8	52,1	37,6	24,3
38 łomżyński	<b>71,9</b>	57,5	43,3	29,6	18,5	<b>80,7</b>	66,7	51,7	37,4	23,8
39 suwalski	<b>72,1</b>	57,4	43,7	30,5	19,2	<b>80,6</b>	66,4	51,8	37,2	23,8
40 gdański	<b>71,7</b>	57,4	43,0	29,5	18,0	<b>79,4</b>	64,8	49,9	35,5	22,4
41 słupski	<b>70,1</b>	56,0	41,7	28,2	17,0	<b>78,6</b>	64,4	49,6	35,2	22,0
42 starogardzki	<b>70,2</b>	56,0	41,6	28,1	17,0	<b>79,2</b>	64,6	49,7	35,2	22,2
43 trójmiejski	<b>72,9</b>	58,6	44,1	30,3	18,8	<b>80,2</b>	65,7	50,9	36,4	23,4
44 bielski	<b>72,1</b>	57,8	43,4	29,5	18,1	<b>79,5</b>	65,0	50,2	35,9	22,6
45 bytomski	<b>70,2</b>	55,9	41,6	28,2	17,5	<b>78,0</b>	63,7	49,0	34,8	22,0
46 częstochowski	<b>69,5</b>	55,3	41,0	27,7	17,0	<b>79,2</b>	64,6	49,8	35,6	22,8
47 gliwicki	<b>71,8</b>	57,4	43,0	29,4	18,1	<b>78,8</b>	64,3	49,5	35,2	22,5
48 katowicki	<b>69,1</b>	55,0	40,6	27,4	17,0	<b>77,2</b>	63,1	48,3	34,0	21,5
49 rybnicki	<b>71,7</b>	57,3	42,8	28,7	17,0	<b>79,1</b>	64,8	50,0	35,6	22,5
50 sosnowiecki	<b>69,7</b>	55,3	41,0	27,6	16,7	<b>78,4</b>	64,2	49,5	35,3	22,3
51 tyski	<b>71,7</b>	57,4	43,1	29,3	17,4	<b>79,3</b>	64,8	49,9	35,4	22,4
52 kielecki	<b>71,9</b>	57,5	43,1	29,7	18,3	<b>80,2</b>	65,8	51,1	36,6	23,4
53 sandomiersko-jędrzejowski	<b>71,6</b>	57,1	42,9	29,5	17,6	<b>79,7</b>	65,2	50,4	36,1	22,7
54 elbląski	<b>70,3</b>	55,7	41,4	27,9	17,0	<b>79,4</b>	65,1	50,4	35,9	22,9
55 elcki	<b>70,4</b>	55,7	41,3	28,0	17,5	<b>80,1</b>	65,6	50,9	36,6	23,7
56 olsztyński	<b>71,3</b>	57,0	42,7	29,0	17,8	<b>80,6</b>	66,0	51,2	36,7	23,4
57 kaliski	<b>71,6</b>	57,0	42,5	28,8	17,4	<b>79,4</b>	65,1	50,3	35,7	22,5
58 koniński	<b>71,6</b>	57,1	42,6	29,0	17,7	<b>79,7</b>	65,1	50,4	36,0	22,9
59 leszczyński	<b>72,1</b>	57,9	43,5	29,6	18,0	<b>79,1</b>	64,8	50,1	35,6	22,2
60 pільski	<b>70,9</b>	56,8	42,4	28,7	17,5	<b>79,6</b>	65,0	50,2	35,8	22,6
61 poznański	<b>72,1</b>	57,9	43,4	29,4	17,7	<b>78,5</b>	63,9	49,2	34,8	21,3
62 m. Poznań	<b>73,3</b>	58,8	44,3	30,2	18,8	<b>79,8</b>	65,4	50,6	36,1	23,1
63 koszaliński	<b>71,2</b>	57,1	42,7	29,0	17,5	<b>79,2</b>	65,1	50,4	36,2	23,0
64 stargardzki	<b>70,4</b>	56,4	42,3	28,8	17,3	<b>79,5</b>	65,1	50,4	35,9	22,5
65 m. Szczecin	<b>71,4</b>	57,2	42,7	28,8	17,9	<b>79,5</b>	64,8	50,0	35,7	22,5
66 szczeciński	<b>70,7</b>	56,5	42,1	28,7	17,4	<b>78,5</b>	64,3	49,7	35,6	22,6
<b>Rural areas</b>										
1 jeleniogórski	<b>69,8</b>	55,4	41,3	27,7	16,7	<b>79,2</b>	64,7	49,8	35,4	22,1
2 legnicko-głogowski	<b>70,0</b>	55,8	41,2	27,5	16,2	<b>79,2</b>	65,0	50,3	35,8	22,9
3 wałbrzyski	<b>69,5</b>	55,7	41,5	28,1	17,1	<b>79,5</b>	64,9	50,1	35,8	22,5
4 wrocławski	<b>69,9</b>	55,5	41,2	28,0	16,7	<b>79,0</b>	64,7	50,1	35,6	22,3
6 bydgosko-toruński	<b>71,4</b>	57,0	43,0	29,6	17,5	<b>79,5</b>	64,8	50,3	35,7	22,3
7 grudziądzki	<b>70,7</b>	56,2	41,9	28,3	16,7	<b>78,9</b>	64,3	49,7	35,2	22,4
8 wrocławski	<b>68,8</b>	54,7	40,7	27,3	16,4	<b>79,1</b>	64,5	49,7	35,3	22,1
9 bialski	<b>68,9</b>	54,4	40,4	27,3	16,8	<b>79,3</b>	64,9	50,4	36,2	22,9
10 chełmsko-zamojski	<b>68,7</b>	54,8	40,5	27,2	16,5	<b>80,5</b>	66,1	51,3	36,8	23,3
11 lubelski	<b>68,7</b>	54,5	40,6	27,5	16,6	<b>80,4</b>	66,2	51,3	36,7	23,1
12 puławski	<b>69,7</b>	55,4	41,2	27,9	17,3	<b>80,4</b>	66,1	51,5	36,9	23,4
13 gorzowski	<b>69,2</b>	54,9	40,9	27,4	16,3	<b>78,5</b>	64,2	49,6	35,2	22,2
14 zielonogórski	<b>69,4</b>	55,0	40,9	28,0	17,0	<b>78,4</b>	64,1	49,5	35,1	22,0

TABLE D. LIFE EXPECTANCY IN POLAND BY SUBREGIONS IN 2007 (cont.)

Subregions	Males					Females				
	by age									
	0	15	30	45	60	0	15	30	45	60
<b>Rural areas (cont.)</b>										
15 łódzki	<b>69,3</b>	54,9	40,6	28,1	17,2	<b>79,2</b>	64,8	50,1	35,6	22,5
17 piotrkowski	<b>68,1</b>	53,8	39,8	26,9	16,9	<b>79,5</b>	65,0	50,3	36,1	22,7
18 sieradzki	<b>68,7</b>	54,1	39,9	26,9	16,8	<b>79,7</b>	65,4	50,7	36,2	22,9
19 skierniewicki	<b>68,7</b>	54,3	40,4	27,4	16,9	<b>79,6</b>	65,3	50,6	36,1	22,8
20 krakowski	<b>72,0</b>	57,4	43,0	29,2	17,5	<b>80,3</b>	65,9	51,1	36,5	23,1
22 nowosądecki	<b>72,3</b>	57,9	43,6	29,9	18,1	<b>81,2</b>	66,9	52,0	37,5	23,8
23 oświęcimski	<b>71,8</b>	57,6	43,4	29,6	17,9	<b>81,0</b>	66,6	51,8	37,1	23,8
24 tarnowski	<b>72,3</b>	57,9	43,7	29,8	18,1	<b>81,1</b>	66,5	51,6	36,9	23,3
25 ciechanowsko-płocki	<b>68,8</b>	54,4	40,3	27,2	16,9	<b>79,3</b>	65,0	50,5	35,9	22,9
26 ostrołęcko-siedlecki	<b>69,5</b>	55,1	41,0	27,9	17,5	<b>80,7</b>	66,3	51,6	37,0	23,5
27 radomski	<b>69,2</b>	55,0	41,1	28,0	17,6	<b>79,8</b>	65,8	51,2	36,9	23,4
29 warszawski wschodni	<b>69,3</b>	55,0	41,2	28,1	17,8	<b>80,9</b>	66,1	51,4	36,8	23,4
30 warszawski zachodni	<b>71,0</b>	56,9	42,8	29,3	18,5	<b>80,8</b>	66,3	51,4	37,1	23,7
31 nyski	<b>71,0</b>	56,5	42,0	28,1	17,1	<b>79,2</b>	65,1	50,4	35,8	22,6
32 opolski	<b>72,7</b>	58,2	44,1	29,9	17,8	<b>80,5</b>	65,9	51,1	36,5	23,1
33 krośnieński	<b>72,2</b>	58,2	43,7	30,0	18,1	<b>81,3</b>	66,7	52,0	37,5	23,8
34 przemycki	<b>72,0</b>	57,6	43,5	29,6	17,9	<b>80,3</b>	65,8	51,0	36,3	22,9
35 rzeszowski	<b>73,0</b>	58,8	44,4	30,5	18,6	<b>80,9</b>	66,7	51,8	37,2	23,5
36 tarnobrzeski	<b>71,7</b>	57,3	43,2	29,5	17,6	<b>81,4</b>	67,1	52,2	37,5	23,7
37 białostocki	<b>70,6</b>	55,9	41,7	28,7	18,0	<b>80,3</b>	66,2	51,4	36,8	23,4
38 łomżyński	<b>69,8</b>	55,8	41,6	28,8	18,4	<b>80,4</b>	66,2	51,8	37,4	23,7
39 suwalski	<b>70,2</b>	55,8	42,2	28,8	18,0	<b>81,7</b>	67,0	52,1	37,6	24,1
40 gdański	<b>71,5</b>	57,2	43,0	29,4	17,7	<b>80,0</b>	65,8	51,1	36,5	23,1
41 słupski	<b>70,5</b>	56,3	42,0	28,3	17,0	<b>79,3</b>	65,0	50,3	35,8	22,8
42 starogardzki	<b>70,5</b>	56,0	41,7	27,9	16,7	<b>78,5</b>	64,1	49,3	35,0	21,9
44 bielski	<b>71,8</b>	57,4	43,0	29,3	18,0	<b>80,2</b>	65,6	50,9	36,3	22,7
45 bytomski	<b>70,7</b>	56,8	42,2	28,5	16,7	<b>79,8</b>	65,4	50,5	36,1	22,6
46 częstochowski	<b>69,9</b>	55,4	41,5	28,0	17,0	<b>80,1</b>	65,8	51,0	36,4	22,9
47 gliwicki	<b>72,6</b>	57,9	43,4	29,4	17,6	<b>80,2</b>	65,6	51,2	36,5	22,8
49 rybnicki	<b>72,1</b>	57,6	43,3	29,5	17,4	<b>78,7</b>	64,2	49,5	35,2	21,7
50 sosnowiecki	<b>70,6</b>	56,0	42,0	28,8	18,1	<b>79,6</b>	65,2	50,4	36,2	22,6
51 tyski	<b>72,8</b>	58,5	43,9	30,1	18,0	<b>79,5</b>	65,1	50,4	35,7	22,1
52 kielecki	<b>70,2</b>	55,7	41,5	28,4	17,4	<b>80,8</b>	66,4	51,6	37,0	23,5
53 sandomiersko-jędrzejowski	<b>70,4</b>	56,1	41,9	28,6	17,7	<b>81,2</b>	66,6	51,8	37,1	23,6
54 elbląski	<b>69,3</b>	55,0	41,2	28,1	17,1	<b>79,0</b>	64,6	49,9	35,6	22,5
55 etcki	<b>68,6</b>	54,3	40,5	27,6	17,0	<b>78,6</b>	63,9	49,3	34,8	22,0
56 olsztyński	<b>68,5</b>	54,1	40,0	27,1	16,3	<b>79,1</b>	64,9	50,3	35,8	22,8
57 kaliski	<b>70,3</b>	56,3	42,3	29,0	17,6	<b>79,9</b>	65,3	50,5	35,9	22,3
58 koniński	<b>70,1</b>	55,7	41,6	28,4	17,2	<b>79,8</b>	65,5	50,8	36,4	23,0
59 leszczyński	<b>71,2</b>	56,6	42,1	28,3	17,1	<b>78,8</b>	64,6	49,8	35,3	22,2
60 piłski	<b>69,2</b>	55,2	41,4	28,3	17,1	<b>79,0</b>	64,6	49,9	35,5	22,3
61 poznański	<b>71,4</b>	57,3	42,9	29,1	17,6	<b>79,8</b>	65,4	50,6	36,1	22,8
63 koszaliński	<b>69,1</b>	54,7	40,7	27,3	16,0	<b>78,7</b>	64,5	49,6	35,2	22,0
64 stargardzki	<b>70,1</b>	55,9	41,7	28,2	17,1	<b>79,2</b>	65,1	50,2	35,6	22,3
66 szczeciński	<b>70,4</b>	56,3	41,9	28,6	17,6	<b>79,8</b>	65,3	50,5	36,1	23,0