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FAMINE AND FACTORS AFFECTING MORTALITY IN THE USSR :
THE DEMOGRAPHIC CRISIS OF 1914-1922 and 1930-1933

APPENDICES

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Famine and Factors Affecting Mortality in the USSR:

The Demographic Crises of 1914-1922 and 1930-33.

APPENDICES

by

Steve Wheatcroft

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Appendix 1.

Available registration data and western estimates on cdr

See following page for data.

Sources: 50 Gubernii of European Russia, A.G.Rashin, Naseleniye Rossii za 100 let, M.1956. pp.155-6, 171, 194.

European Russia and USSR different boundaries. B.Ts Uralnis, Rozhdaemost i prodolzhitel'nost zhizni v SSSR, M. 1963, pp.84, 86, 87, 88

1914, 1918-1923 (marked *) are estimates made by the Soviet demographer A.Ya Boyarskii 'K voprosu o estevennom dvizhenii naseleniya v Rossii i v SSSR v 1915-1923gg' in Uchenyye zapiski Moskovskogo Ekonomiko-statisticheskogo instituta, tom 1, M. 1948, p.66.

Petrograd Statisticheskii sbornik po Petrograde i Petrogradskoi gubernii Petrograd, 1922, pp. 13-14.

Moscow town from Statisticheskii ezhegodnik g. Moskvy i Moskovskoi gubernii, vyp.2, M. 1927, p. 88.

Villages in Moscow and Ryazan Oblasts from L.K.Khotsyanov, Opyt izucheniya demograficheskikh sdvigo v selskom naselenii Moskovskoi i Ryazanskoi oblasti za isekshyeye stoletiya (1851-1960), M.1963, pp. 49,66,70.

Saratov town from A.G.Kovalevskii, Ocherki po demografii Saratova (rozhdemost i smertnost za 1914-1927gg.), Saratov, 1928, pp.7, 9.

Western estimates F.Lorimer, The population of the Soviet Union, Geneva, 1946, p. 134, J.Biraben Essai sur l'evolution demographique de l'URSS in Population, No. 13, June 1958, pp. 29-62.

Year	Town	Villages	Town	Village	Year	Town	Villages	Town	Village
1861	34.1	34.1	31.1	26.0	1900	31.1	29.2	28.3	40.4
1862	40.4	32.8	43.7	31.0	1901	37.1	27.2	35.2	38.2
1863	37.5	38.6	40.0	39.0	1902	31.5	26.2	30.0	40.5
1864	34.4	32.1	26.5		1903	30.0	27.3	28.5	32.3
1865	35.8	29.3	48.6		1904	25.9	26.2	27.3	32.4
1866	33.2	33.8	50.5		1905	31.7	26.4	28.4	34.0
1867	33.8	35.1	31.0		1906	28.4	25.7	27.6	31.0
1868	33.4	30.8	41.7		1907	28.4	27.4	33.5	23.5
1869	35.5	32.7	40.6		1908	28.3	27.8	30.0	25.0
1870		34.6	32.7		1909	25.5	29.1	21.8	33.5
1871					1910	31.5	26.3	26.4	30.3
1872					1911	27.4	26.5	24.0	31.6
1873					1912	26.5	24.4	26.2	28.8
1874					1913	27.4	24.7	24.0	26.1
1875					1914	27.2*	23.2	35.9	29.3
1876					1915		24.0	16.2	32.0
1877					1916		23.0	17.1	33.3
1878					1917		23.7	18.5	34.5
1879					1918		25.9	26.8	47.6
1880					1919		45.4	13.7	40.5
1881					1920		36.3	18.6	61.2
1882					1921		25.5	16.8	66.5
1883					1922		28.0	27.3	81.5
1884					1923		14.0	16.0	22.5
1885					1924		15.2	28.6	19.7
1886					1925		13.4	13.2	16.8
1887					1926		13.6	3.7	20.5
1888					1927		20.9	12.3	16.0
1889					1928		18.1	8.3	17.0
1890					1929		20.3	11.8	8.0
1891					1930				
1892					1931				
1893					1932				
1894					1933				
1895					1934				
1896					1935				
1897					1936				
1898					1937				
1899					1938				
1900					1939				
1901					1940				
1902					1941				
1903					1942				
1904					1943				
1905					1944				
1906					1945				
1907					1946				
1908					1947				
1909					1948				
1910					1949				
1911					1950				
1912					1951				
1913					1952				
1914					1953				
1915					1954				
1916					1955				
1917					1956				
1918					1957				
1919					1958				
1920					1959				
1921					1960				

a) Monthly mortality, population change (estimates) and mortality rates in Petrograd, 1917-1923.

i) Mortalities.

Year	Month	Mortality	Year	Mortality	Year	Mortality
1917.	Jan.	5457	1920.	5064	1923.	1445
	Feb	5286		6144		1522
	Mar	6202		5699		1690
	Apr	4787		4022		1445
	May	4578		2988		1384
	June	5004		2274		1395
	July	4619		2339		1468
	Aug	4157		2565		1539
	Sept	3546		1842		1270
	Oct	2925		1404		1403
	Nov	2818		1521		1488
	Dec	3244		1617		1433
1918.	Jan	3152	1921.	1913		
	Feb	973		1809		
	Mar	4676		1801		
	Apr	3197		1529		
	May	4548		1418		
	June	4430		1593		
	July	8972		1634		
	Aug	7123		1581		
	Sept	7906		1836		
	Oct	9027		2884		
	Nov	6298		3887		
	Dec	8231		3804		
1919.	Jan	8391	1922.	3309		
	Feb	7304		2799		
	Mar	8195		2945		
	Apr	8199		2561		
	May	6532		2212		
	June	4818		1762		
	July	5587		2400		
	Aug	4531		2908		
	Sept	2485		2091		
	Oct	2700		1660		
	Nov	4966		1484		
	Dec	5673		1519		

Appendix 2.

Population size and monthly cdr in Petrograd, Moscow and Saratov.

- (a) Petrograd, 1917-1923.
 - i) Mortality
 - ii) Estimated Population
 - iii) Death rates.
- (b) Moscow, 1911-1926.
 - i) Mortality
 - ii) Estimated Population
 - iii) Death rates.
- (c) Saratov, 1911-1926.
 - i) Mortality
 - ii) Estimated Population
 - iii) Death rates.

Source: Materialy po statistike Leningrada i Leningradskoi Gubernii, vyp. 6. Leningrad 1925, p.202.

ii) POPULATION SIZE IN MILLIONS (ESTIMATE)

1916	July	2.41				
1917	Jan	2.36	1919	1.19	1921	0.79
	Feb	2.35		1.14		0.79
	Mar	2.34		1.09		0.80
	Apr	2.33		1.04		0.81
	May	2.32		1.00		0.82
	June	2.31		0.95		0.82
	July	2.30		0.90		0.83
	Aug	2.23		0.89		0.84
	Sept	2.16		0.87		0.85
	Oct	2.09		0.86		0.86
	Nov	2.02		0.85		0.87
	Dec	1.95		0.83		0.88
						1.03
						1.04
						1.05
						1.06
						1.07
						1.08
						1.09
						1.10
						1.11
						1.12
						1.13
						1.14
1918	Jan	1.89	1920	0.82	1922	0.90
	Feb	1.92		0.81		0.91
	Mar	1.75		0.79		0.92
	Apr	1.68		0.78		0.93
	May	1.61		0.77		0.94
	June	1.54		0.75		0.95
	July	1.47		0.74		0.96
	Aug	1.42		0.75		0.97
	Sept	1.38		0.76		0.98
	Oct	1.33		0.76		0.99
	Nov	1.28		0.77		1.00
	Dec	1.23		0.78		1.01

iii) MONTHLY CRUDE DEATH RATE PER THOUSAND POPULATION IN ANNUAL EQUIVALENTS.

1917	Jan	27.7	1919	84.6	1921	29.1	1923	16.8
	Feb	27.0		76.9		27.5		17.6
	Mar	31.8		90.2		27.0		19.3
	Apr	24.7		90.6		22.7		16.4
	May	23.7		70.4		20.8		15.5
	June	26.0		60.9		23.3		15.5
	July	24.1		74.5		23.6		16.2
	Aug	22.4		61.1		22.6		16.8
	Sept	19.7		34.3		25.9		13.7
	Oct	16.8		37.7		40.2		15.0
	Nov	16.7		70.1		53.6		15.8
	Dec	20.0		82.0		51.9		15.1
1918	Jan	20.0	1920	74.1	1922	44.1		
	Feb	26.2		91.0		36.9		
	Mar	32.1		86.6		38.4		
	Apr	22.8		61.9		33.0		
	May	33.9		46.6		28.2		
	June	34.5		36.4		22.3		
	July	73.2		37.9		30.0		
	Aug	60.2		41.0		36.0		
	Sept	68.7		29.1		25.6		
	Oct	61.4		22.2		20.1		
	Nov	59.0		23.7		17.8		
	Dec	80.3		24.9		18.0		

b) Monthly mortality, population change (estimate) and mortality rates in Moscow 1911-1925

i) Mortalities.

1911.	July	4138				
	Aug	3458				
	Sept	2874				
	Oct	2859				
	Nov	2930				
	Dec	3426				
1912.	Jan	3390	1915	3242	1918	3042
	Feb	2216		2900		1941
	Mar	3530		3247		3407
	Apr	3638		3067		2983
	May	3246		3550		3928
	June	4040		4512		3819
	July	4290		4463		4511
	Aug	3679		3660		4293
	Sept	2781		3674		4802
	Oct	2629		4080		5751
	Nov	2534		3797		5342
	Dec	2912		4121		6541
					1921	2298
						2378
						2294
						2020
						2439
						3465
						2532
						3819
						2097
						2712
						2033
						2238
						2231
						2320
						2550
1913.	Jan	3315	1916	4265	1919	5610
	Feb	3156		3926		6938
	Mar	3384		4418		8595
	Apr	3341		4334		7756
	May	3527		4043		5803
	June	4048		3864		4744
	July	4202		3834		4498
	Aug	4279		3168		3534
	Sept	3531		2870		2644
	Oct	3099		3023		2870
	Nov	2870		3172		5505
	Dec	3193		3659		5821
					1922	4022
						4021
						4076
						3895
						3837
						3566
						4214
						3421
						2499
						2204
						2003
						2237
					1925	2567
						2027
						2185
						2052
						2143
						2048
						2205
						1923
						1736
						2036
						1900
						1973
1916.	Jan	3140	1917	4515	1920	5472
	Feb	2906		4095		6138
	Mar	3772		4158		5313
	Apr	3988		3494		3841
	May	3623		3547		3230
	June	5143		5384		3282
	July	4545		4783		2497
	Aug	3159		4169		2425
	Sept	2421		3036		2279
	Oct	2432		2491		2190
	Nov	2581		1986		1872
	Dec	3031		2266		2094
					1923	2069
						2063
						2012
						1883
						1913
						1686
						1859
						1703
						1469
						1819
						2099
						2102

Source: Statisticheskii Ezhegodnik g. Moskvy i Moskovskoi gub., vyp. 2, M. 1927, p. 91.

Sources: Population size estimated on basis of July figures.
 July population figures and monthly mortality (in absolute terms) from:

ii) ESTIMATED MONTHLY SIZE OF POPULATION IN MOSCOW 1911-1925

1911	July	158.1						
	Aug	158.6						
	Sept	159.0						
	Oct	159.51						
	Nov	160.0						
	Dec	160.4						
1912	Jan	160.9	1915	1.80	1918	1.77	1921	1.15
	Feb	161.4		1.81		1.75	1924	1.70
	Mar	161.8		1.82		1.74		1.71
	Apr	162.3		1.82		1.73		1.72
	May	162.8		1.83		1.71		1.73
	June	163.2		1.84		1.70		1.75
	July	163.7		1.85		1.68		1.76
	Aug	1.64		1.85		1.66		1.77
	Sept	1.65		1.86		1.64		1.78
	Oct	1.65		1.87		1.62		1.79
	Nov	1.66		1.88		1.60		1.79
	Dec	1.66		1.89		1.57		1.80
								1.81
1913	Jan	1.67	1916	1.89	1919	1.55	1922	1.28
	Feb	1.67		1.90		1.53	1925	1.81
	Mar	1.63		1.91		1.51		1.82
	Apr	1.69		1.92		1.48		1.83
	May	1.69		1.93		1.46		1.83
	June	1.69		1.94		1.44		1.84
	July	1.69		1.93		1.42		1.85
	Aug	1.70		1.94		1.39		1.86
	Sept	1.70		1.94		1.37		1.88
	Oct	1.71		1.94		1.34		1.90
	Nov	1.71		1.94		1.32		1.91
	Dec	1.72		1.94		1.29		1.93
								1.95
1914	Jan	1.72	1917	1.94	1920	1.27	1923	1.50
	Feb	1.73		1.94		1.24		1.52
	Mar	1.73		1.92		1.22		1.54
	Apr	1.74		1.91		1.19		1.56
	May	1.74		1.89		1.17		1.58
	June	1.75		1.87		1.14		1.60
	July	1.75		1.85		1.12		1.62
	Aug	1.76		1.84		1.12		1.63
	Sept	1.77		1.82		1.13		1.65
	Oct	1.78		1.81		1.13		1.66
	Nov	1.79		1.80		1.14		1.67
	Dec	1.79		1.78		1.14		1.68

iii) MONTHLY CRUDE DEATH RATE PER THOUSAND POPULATION IN ANNUAL EQUIVALENTS.

1911.	July	31.4				
	Aug	26.2				
	Sept	21.7				
	Oct	21.5				
	Nov	22.0				
	Dec	25.6				
1912	Jan	25.2	1916	27.1	1920	51.7
	Feb	23.9		24.8		59.4
	Mar	26.2		27.8		52.3
	Apr	26.9		27.1		38.7
	May	23.9		25.3		41.4
	June	29.7		24.0		34.5
	July	31.4		23.7		26.8
	Aug	26.9		19.6		26.0
	Sept	20.2		17.8		24.2
	Oct	19.1		18.7		23.3
	Nov	18.3		19.6		19.7
	Dec	21.1		22.6		22.0
1913	Jan	23.8	1917	27.9	1921	24.0
	Feb	22.7		25.3		24.8
	Mar	24.2		26.0		23.7
	Apr	23.9		22.0		20.9
	May	25.0		22.5		25.0
	June	29.7		34.5		35.5
	July	29.8		31.0		25.7
	Aug	30.2		27.2		21.1
	Sept	24.9		20.0		20.2
	Oct	21.9		16.5		21.8
	Nov	20.1		13.2		27.1
	Dec	22.3		15.3		33.0
1914	Jan	21.9	1916	20.6	1922	37.7
	Feb	20.2		13.3		37.1
	Mar	26.2		23.5		37.3
	Apr	27.5		20.7		35.1
	May	25.0		27.6		34.1
	June	35.3		27.0		31.5
	July	31.2		32.2		36.6
	Aug	21.5		31.0		29.3
	Sept	16.4		35.1		21.1
	Oct	16.4		42.6		18.4
	Nov	17.3		40.1		16.5
	Dec	20.3		50.0		18.1
1915	Jan	21.6	1919	43.4	1923	16.6
	Feb	19.2		54.4		16.3
	Mar	21.4		68.3		15.7
	Apr	20.2		62.9		14.5
	May	23.3		47.7		14.5
	June	29.4		39.5		12.6
	July	28.9		38.0		13.8
	Aug	23.7		30.5		12.6
	Sept	23.7		23.2		10.7
	Oct	26.2		25.7		13.1
	Nov	24.2		50.0		15.1
	Dec	26.2		54.1		15.0

Note: Estimated from average year figures (July 1)

Source: Statisticheskii Ezhegodnik g. Moskvy i Moskovskoi gub., vyp. 2, M. 1927, p.88

Source: See above Tables.

c) Monthly mortality, population change (estimates) and mortality rates in Saratov 1914-

i) Mortalities.

Year	Month	1914	1917	1920	1923	1926
1914.	Jan	486	535	1799	335	314
	Feb	436	570	1602	304	303
	Mar	516	608	1409	321	388
	Apr	530	535	966	266	416
	May	485	624	849	279	400
	June	907	844	1140	364	463
	July	766	810	827	426	499
	Aug	602	710	519	438	362
	Sept	428	502	600	356	307
	Oct	477	510	697	462	306
	Nov	516	423	657	370	320
	Dec	507	425	684	319	336
1915.	Jan	491	499	558	298	
	Feb	424	462	712	246	
	Mar	459	531	738	246	
	Apr	510	550	149	245	
	May	554	634	815	297	
	June	861	959	2581	485	
	July	838	2056	2293	406	
	Aug	670	785	913	315	
	Sept	699	887	621	261	
	Oct	680	848	609	343	
	Nov	743	816	361	323	
	Dec	578	677	1385	298	
1916.	Jan	700	675	1376	367	
	Feb	553	637	2099	248	
	Mar	649	1079	2273	274	
	Apr	647	1152	2240	282	
	May	667	866	1628	311	
	June	896	969	1314	405	
	July	798	1229	1204	412	
	Aug	650	1191	967	378	
	Sept	566	1097	633	329	
	Oct	523	1275	499	333	
	Nov	477	2143	442	305	
	Dec	454	1479	486	337	

Source: A.G.Kovalevskii, Ocherki po demografii Saratova (rozhdanost i smertnost za 1914-1927gg.), Saratov 1928, pp.21-22.

ii) Estimated size of population in millions.

Annual Estimates.

Year	All Deaths.	Cdr.	Population in mid year (July) in millions.
1914	6685	29.3	0.228
1915	7567	33.0	0.229
1916	7590	33.3	0.228
1917	7184	34.5	0.208
1918	9744	47.6	0.205
1919	13792	69.8	0.198
1920	11755	61.2	0.192
1921	12356	66.9	0.185
1922	15161	81.5	0.186
1923	4240	22.5	0.188
1924	3763	19.7	0.191
1925	4001	18.8	0.213
1926	4414	20.9	0.211

Source: A.G.Kovalevskii, Ocherki po demografii Saratova (rozhdanost i smertnost za 1914-1927gg.), Saratov, 1928, pp.21-22, 24.

Monthly Estimates.

Year	Month	1914	1917	1920	1923	1926
1914.	Jan	0.228	0.218	0.195	0.187	0.211
	Feb	0.228	0.216	0.195	0.187	0.211
	Mar	0.228	0.215	0.194	0.187	0.211
	Apr	0.228	0.213	0.194	0.188	0.211
	May	0.228	0.212	0.193	0.188	0.211
	June	0.228	0.210	0.193	0.188	0.211
	July	0.228	0.208	0.192	0.188	0.211
	Aug	0.228	0.208	0.191	0.188	
	Sept	0.228	0.208	0.191	0.189	
	Oct	0.228	0.207	0.190	0.189	
	Nov	0.228	0.207	0.190	0.189	
	Dec	0.228	0.207	0.189	0.189	
1915.	Jan	0.229	0.207	0.189	0.190	
	Feb	0.229	0.206	0.188	0.190	
	Mar	0.229	0.206	0.187	0.190	
	Apr	0.229	0.206	0.187	0.190	
	May	0.229	0.206	0.186	0.191	
	June	0.229	0.205	0.186	0.191	
	July	0.229	0.205	0.185	0.191	
	Aug	0.229	0.204	0.185	0.193	
	Sept	0.229	0.204	0.185	0.195	
	Oct	0.229	0.203	0.185	0.197	
	Nov	0.229	0.203	0.185	0.198	
	Dec	0.229	0.202	0.185	0.200	
1916.	Jan	0.228	0.202	0.185	0.202	
	Feb	0.228	0.201	0.186	0.204	
	Mar	0.228	0.200	0.186	0.206	
	Apr	0.228	0.200	0.186	0.208	
	May	0.228	0.199	0.186	0.209	
	June	0.228	0.199	0.186	0.211	
	July	0.228	0.198	0.186	0.213	
	Aug	0.226	0.198	0.186	0.212	
	Sept	0.224	0.197	0.186	0.212	
	Oct	0.223	0.197	0.187	0.212	
	Nov	0.221	0.196	0.187	0.212	
	Dec	0.220	0.196	0.187	0.212	

(iii) MONTHLY MORTALITY IN SARATOV. (monthly figures adjusted to annual mortality per 1,000)

1914 Jan.	25.6	1918 29.3	1922 88.8	1926 17.8
Feb.	22.9	27.1	135.4	17.2
Mar	28.7	32.9	146.7	22.0
Apr	27.9	32.2	144.5	23.6
May	25.5	37.2	105.0	22.7
June	47.7	56.2	84.8	26.3
July	40.3	121.1	77.7	28.4
Aug	30.7	46.0	62.4	20.6
Sept	22.5	52.0	40.8	17.4
Oct	25.1	49.7	32.2	17.4
Nov	27.1	47.8	28.5	18.2
Dec	26.7	39.7	31.4	19.1
1915 Jan	25.7	1919 41.0	1923 21.3	
Feb	25.3	38.7	19.4	
Mar	24.0	65.5	20.4	
Apr	26.7	70.0	16.9	
May	29.0	52.6	17.8	
June	45.1	58.8	23.2	
July	43.9	74.6	27.1	
Aug	35.1	72.3	27.9	
Sept	36.6	66.6	22.7	
Oct	35.6	77.4	29.4	
Nov	28.9	130.1	23.6	
Dec	30.2	89.8	20.3	
1916 Jan	36.9	1920 112.4	1924 18.7	
Feb	29.6	100.1	15.5	
Mar	34.2	88.0	15.5	
Apr	34.1	60.4	15.5	
May	35.1	53.0	18.7	
June	47.2	71.2	30.5	
July	42.0	51.7	25.5	
Aug	34.2	32.4	19.8	
Sept	29.8	37.9	16.4	
Oct	27.5	43.5	21.5	
Nov	25.1	41.0	20.3	
Dec	23.9	42.7	18.7	
1917 Jan	30.8	1921 42.8	1925 20.7	
Feb	32.8	46.3	14.0	
Mar	34.9	47.9	15.4	
Apr	30.8	42.2	15.9	
May	36.5	54.3	17.5	
June	48.6	167.7	24.0	
July	46.7	149.0	23.2	
Aug	40.9	59.3	21.3	
Sept	33.5	40.3	18.6	
Oct	29.4	39.6	18.8	
Nov	24.4	23.5	17.2	
Dec	24.5	90.0	19.0	

Source: See above tables.

Appendix 3

Cause specified mortality in Moscow, Petrograd and Saratov, 1914-1926.

1. The classification of causes of death and their translation.
2. Cause specified mortality (a) in Moscow 1914-1920,
(b) in Petrograd 1917-1923,
(c) in Saratov 1918-1926

- Sources:
- (a) Calculated from data in Statisticheskii ezhegodnik g. Moskvy i Moskovskoi gub., vyp. 2, M. 1927, pp.88, 15, 104-111.
 - (b) Calculated from data in Materialy po statistike Leningrada i Leningradskoi Gubernii, vyp. 6, Leningrad 1925, pp.217-224, and Statisticheskii sbornik po Petrogradu i Petrogradskoi Gubernii, Petrograd, 1922, p.2.
 - (c) A.G.Kovalevskii, Ocherki po demografii Saratova (rozhdaiemost i smertnos za 1914-1927 gg), Saratov, 1928, p.52.

Notes: The Moscow data have been standardized according to the 1914 age structure of the population (See S.G.Wheatcroft, Death in Moscow, 1914-1925, unpublished discussion paper, Birmingham, CREES, 1979. pp.39-42). No attempt has been made, so far, to standardize the age structure in the other cases.

Appendix 3. Cause specified mortality in Moscow, Leningrad and Saratov.

Appendix 3 continued

1. The classification of causes of death and their translation.

I have used a fairly simple classification of death in which the deaths due primarily to micro-organisms are classified on etiological principles according to vector, and the deaths due to non-micro-organisms are classified according to three groups:

- (a) anatomical dysfunctions
- (b) violence, and
- (c) specific famine-related

There is also a large category of other, unknown or uncertain causes. The category of deaths from specific famine-related causes is a most problematical category. It is difficult to separate out the deaths from famine and non-famine causes and they were undoubtedly inter-related. The famine would have contributed to deaths from almost all the other causes during this period. And many of those who were classified as having died from famine would have had other complicating factors affecting them also. Nevertheless, it is useful to get an idea of the causes assumed by the most informed first-hand registrars to have been the most important.

The overall classification of causes of deaths together with the Russian terms and their English (and where available Latin translations) are given below:

DEATHS PRIMARILY DUE TO MICRO-ORGANISMS.

Primarily airborne micro-organisms.

The common diseases of childhood.

- Scarlet fever, *Scarlatina* (Latin), Skarlatina (Russian)
- Measles, *Morbilli* (Latin), Kor (Russian)
- Diphtheria, *Diphtheritis* (Latin), Difterit (Russian)
- Whooping Cough, *Tussis convulsiva* (Latin), Koklyush (Russian)

Tuberculosis respiratory.

- Respiratory Tuberculosis, *Phthisis pulmonum* (Latin), Chekhotka (Russian in Moscow Classification), Bugorchatka legkikh (in Leningrad classification) and Tuberkulez legkikh (In Saratov classification)

Other respiratory diseases.

- Influenza, *Influenza* (Latin), Influenza (Russian in Moscow classification)
- Gripp (in Petrograd and Saratov classifications).
- Spanish influenza, *Morbi Hyspennic* (Latin), Ispanskaya bol. (Russian in Moscow classification).
- Pneumonia, *Pneumonia crouposa* (Latin), Krupoznaya pneumonii (Russian in Moscow classification), Vospolenie legkikh (In Leningrad and Saratov classifications).
- Other respiratory diseases, *Morbi org. respirationis* (Latin), Prochiye bolezni organov dikhaniya (Russian in Moscow classification),

Other airborne micro-organisms

- Smallpox, *Variola* (Latin), Ospa (Russian)
- Erysipelas, *Erysipelas* (Latin), Rozh (Russian in Moscow classification)
- Pyæmia, *Pyæmia* (Latin), Gney-gnilokroviye (Russian in Moscow classification)

Primarily water-borne micro-organisms.

- Typhoid, *Typhus abdominalis* (Latin), Tif bryushnoi (Russian)
- Cholera, *Cholera Asiatica* (Latin), Kholera Aziatskaya (Russian)
- Dysentery, *Dysentaria* (Latin), Dizenteriya (Russian)
- Gastro-enteritis, *Gastro-enteritis acuta* (Latin) Zheludochno-kishochmy katarr (Russian in Moscow classification), Ostro-zheludochniye i kishhechniya zabolevaniya (in Saratov classification)
- Non-respiratory tuberculosis, *Tuberculosis al.org.* (Latin), Bugorchatka drug.org. (Russian in Moscow and Leningrad classification), Tuberkulez dr.organov (in Saratov classification).
- Other digestive diseases, *Morbi org. digestionali* (Latin), Prochiye bolezni org. pishchevareniya (Russian in Moscow classification).

Other vector borne micro-organisms.

- Typhus, *Typhus exanthematic* (Latin), Tif syipnoi (Russian)
- Relapsing Fever, *Typhus recurrens* (Latin), Tif vozvratnoi (Russian)
- Other typhus, *Typhus indeterminatus* (Latin), Tif neopredelen.vida (Russian in Moscow and Saratov classifications), Tif bez ukazaniya (in Petrograd classification)
- Syphilis, *Syphilis* (Latin), Siflis (Russian in Moscow classification)
- Malaria, *Malaria* (Latin), Malariya (Russian in Petrograd and Saratov classification)
- Peremezh. likhoradka (in Moscow classification).
- Anthrax, *Postula malignea* (Latin), Sibirskaya Yazva (Russian in Moscow and Saratov classifications).

DEATHS PRIMARILY DUE TO NON-MICRO-ORGANISMS

Anatomical dysfunctions.

Diseases of infancy

- Prematurity, *Morbi neonatorum* (Latin), Bolezni novorozhdennikh (Russian in Moscow Classification)
- Congenital defects, *Debilitas congenita* (Latin), Vrozhdennaya slabost (Russian in Moscow and Petrograd classifications).

Note - no specific diseases of infancy were included in the Saratov classification.

Cancer

- Cancer, and other malignant tumours, *Carcinoma et umores maligni ali* (Latin)
- Rak i proch. zlokkachesty. opukhli (Russian)
- Other tumours, *Tumores ali* (Latin), Proch.opukholi (Russian in Moscow classification).

Cardio-vascular diseases

Cardio-vascular diseases, Morbi circulatorii (Latin), Bolezni krovesnoi sistemy (Russian in Moscow classification), Organich. bolezni serdtsa (in Petrograd classification), Bolezni serdtsa (in Saratov classification)

Diseases of the nervous system

Diseases of the nervous system, Morbi systemi nervosi (Latin), Bolezni nervn. sistemy (Russian in Moscow classification), Krovoizliyaniye i apopleksiya golovnoy mozga (in Saratov classification), Apopleksiya (in Petrograd classification)

Maternal diseases

Puerperal disease, Morbi puerperales septica (Latin), Poslerodoviye septicheske bolezni (Russian in Moscow classification), Poslerodovoye gnitokroviye (in Petrograd classification)

Other diseases of pregnancy, Morbi gravidar. et partur (Latin), Bolezni beremennikh (Russian in Moscow classification), Proch.oslozhn.berem.i.rod (in Petrograd classification), Islozheniya pri beremen. i poslerodoviye zabolevaniya (in Saratov classification)

Violence

Suicide, suicidium (Latin), samoubiistva (Russian)

Murder, Homicidium (Latin), Ubiistva (Russian)

Other violent deaths, Mors violenta (Latin), Proch. nasil'stv. smert. (Russian in Moscow classification), Neschastniye sluchai and Nasilst. smert neizh.proish. (in Petrograd classification), Neschastniye sluchai (in Saratov classification)

Famine-related specific

Starvation, Istoshcheniye ot nedoedaniya (Russian in Petrograd classification),

Istosheniye i golod (in Saratov classification),

Scurvy, Tsinga (in Petrograd and Saratov classification)

OTHER, UNKNOWN OR POORLY CLASSIFIED

Cause unknown, Causae ignotae (Latin), Prichina neizvestna (Russian in Moscow classification)

Uncertain, Diagnosis incerta (Latin), Prichina netochno opredelena (Russian in Moscow classification)

Uncertain and unknown, Plokhno opredel.i neizv.prichiny (Russian in Petrograd classification)

Others and unknown, Drugiye bolezny i prichiny smerty neizvestny (Russian in Saratov classification)

Others, Prochiye bolezny (in Russian in Petrograd classification)

Old Age, Marasmus senilis (Latin), Starcheskaya dryakhlost (Russian in Moscow classification)

1917-1923: Deaths per 10,000.

	1917	1918	1919	1920	1921	1922	1923
ALL DEATHS	228.8	466.2	770.9	506.5	309.5	288.0	160.4
ALL MICRO ORGANISMS	100.9	181.5	371.6	279.8	147.3	148.7	68.5
All airborne	71.9	106.0	230.3	116.6	77.7	80.7	50.4
Common diseases of infancy	7.2	4.6	29.1	6.6	9.2	11.8	5.9
Scarlet fever	2.6	0.9	5.3	2.5	3.2	3.4	2.1
Measles	1.1	0.2	14.5	1.3	3.7	4.1	2.2
Diphtheria	2.8	2.5	6.6	2.3	1.7	1.8	1.0
Whooping Cough	0.7	1.0	2.5	0.5	0.6	2.5	0.6
T.B. (respiratory)	33.1	35.5	43.8	50.7	33.7	35.2	24.2
Other respiratory	29.8	63.8	134.2	54.5	34.3	32.9	20.2
Influenza	1.3	9.4	25.8	9.2	3.5	2.6	2.5
Other	28.5	54.4	108.4	45.3	30.8	30.3	17.7
Other (Smallpox)	1.8	2.1	23.2	4.8	0.5	0.8	0.1
All water and food borne	22.2	60.1	63.0	55.1	34.7	33.3	11.7
Typhoid	4.9	2.5	2.8	3.5	3.7	1.8	0.9
Cholera	-	30.4	0.6	0.1	0.3	-	-
Dysentery	8.2	8.5	39.5	36.1	21.2	20.8	2.9
Gastro-enteritis	5.4	15.6	15.9	10.3	4.8	4.9	2.5
Non-respiratory T.B.	3.7	3.1	4.2	5.1	4.7	5.8	5.4
All other vectors	1.4	8.2	66.3	98.5	26.9	28.5	1.5
Typhus	0.6	7.3	62.3	64.4	9.2	16.5	1.0
Relapsing Fever	0.7	0.4	2.9	31.4	17.0	11.3	0.5
Other typhus	0.1	0.5	1.1	2.7	0.7	0.7	-
Malaria	0.02	-	-	-	0.03	-	-
Unspecified micro-organ	5.4	7.2	12.0	9.6	8.0	6.2	4.9
NON MICRO ORGANISM (ex.starvation)	60.5	99.4	133.2	88.2	70.2	71.3	51.5
Diseases of infancy	29.1	38.9	44.0	26.7	33.1	37.9	22.7
Cancer	8.6	9.8	10.5	10.2	10.2	9.9	10.3
Cardio vascular	14.6	36.1	58.3	40.0	17.9	16.1	12.1
Diseases of nervous system	5.6	12.2	14.8	9.2	5.2	4.5	4.0
Maternal diseases	1.6	0.8	1.7	1.7	2.8	2.2	1.7
Other	1.0	1.3	1.9	1.1	1.0	0.7	0.7
STARVATION AND SCURVY	2.9	46.1	83.7	40.2	23.8	10.4	1.3
Starvation	0.3	45.1	82.1	37.0	21.1	9.5	0.4
Scurvy	2.6	1.0	1.6	3.2	2.7	0.9	0.9
EXTERNAL	11.3	15.1	17.9	15.6	13.7	12.5	10.3
Suicide	1.0	1.5	2.4	2.5	2.8	3.0	3.3
Murder	4.8	4.0	2.7	1.7	2.6	2.7	2.4
Accident	4.5	5.4	9.9	8.7	7.2	6.3	4.5
Unknown violence	1.0	4.2	2.9	2.7	1.1	0.5	0.1
OTHER	52.1	124.5	161.6	83.0	54.3	45.0	28.7
Other (given)	41.2	86.1	108.5	65.0	49.1	37.5	24.4
Unknown, or uncertain	3.0	9.7	18.3	2.4	1.1	2.9	1.3
Old age	8.9	28.7	34.8	15.6	4.1	4.6	3.0

Sources: Calculated from data in Materialy po statistike Leningrada i Leningradskoi Gubernii vyp.6, Leningrad 1925, pp. 217-224, and Statisticheskii sbornik po Petrogradu i Petrogradskoi Gubernii, Petrograd, 1922, p.2.

Note: These figures have not been standardised to take account of the changing age structure

	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925
NON-MICRO ORGANISMS	59.7	55.7	64.8	68.8	85.1	87.6	83.8	65.7	61.4	48.9	50.1	45.9
Diseases of Infancy	19.5	17.0	21.5	23.1	26.2	19.2	17.9	23.4	20.4	17.3	16.6	12.9
Prematurity	1.9	1.7	1.6	1.0	1.2	0.7	0.7	1.8	1.8	1.6	1.3	1.0
Congenital defects	17.6	15.3	19.9	22.1	23.0	18.6	17.2	21.6	18.6	15.8	15.4	12.0
Cancer	9.4	9.3	10.1	8.6	9.8	8.2	8.6	8.9	8.3	8.1	9.7	9.4
Cancer and Malignant Tumours	9.2	9.1	9.7	8.3	8.5							
Other Tumours	0.2	0.2	0.4	0.3	0.3							
Cardio Vascular	15.4	14.8	17.8	22.0	34.3	42.4	40.9	18.6	18.0	11.5	11.4	12.0
Diseases of the nervous system	13.8	13.1	13.9	13.7	15.4	16.7	15.1	13.2	13.3	10.9	11.2	10.7
Miternal Diseases	1.6	1.5	1.5	1.4	1.4	1.1	1.3	1.6	1.4	1.2	1.1	0.9
Puerperal Diseases	1.2	1.1	1.1	1.0	0.8	0.6	0.7	1.0	0.9	0.9	0.8	0.6
Other Diseases	0.4	0.4	0.4	0.4	0.6	0.5	0.6	0.6	0.5	0.3	0.4	0.3
EXTERNAL	7.0	6.1	5.8	7.8	17.8	16.5	13.9	16.0	19.5	7.2	6.3	8.0
Suicide	1.7	0.8	0.7	0.6	1.0	0.8	0.5	0.8	1.7	1.9	1.7	2.3
Murder	0.4	0.2	0.6	1.0	0.4	0.1	0.3	0.6	0.6	0.6	0.4	0.5
Other Violence	4.6	4.9	4.7	6.6	15.5	15.2	13.2	14.9	17.2	4.6	4.1	4.7
Alcoholism	0.4	0.2	0.2	0.1	0.3	0.1	0.1	0.0	0.0	0.1	0.1	0.5
OTHER	24.8	26.8	25.6	29.1	63.5	72.3	58.0	27.3	27.3	12.0	10.7	9.8
Other (Given)	15.1	18.2	17.6	20.6	44.0	39.9	31.2	16.3	14.8	7.5	6.7	6.4
Cause uncertain (not given)	2.4	2.3	2.2	2.3	9.2	23.2	18.7	8.5	9.5	3.8	3.1	2.9
Cause unknown	7.3	6.3	5.9	6.2	10.4	9.2	8.1	2.5	3.0	0.7	1.0	0.5
ALL DEATHS	232.2	240.0	299.8	237.1	298.9	454.4	362.1	255.4	289.6	139.9	152.8	134.0
ALL MICRO ORGANISMS	140.7	151.4	133.6	131.4	132.5	278.0	207.1	146.4	181.4	71.8	85.7	70.3
All Airborne	85.7	96.4	88.4	67.1	95.6	131.6	102.7	77.6	77.4	49.3	56.9	48.0
Common diseases of infancy	16.8	23.1	14.6	5.4	3.4	11.6	10.2	12.7	13.3	9.0	17.0	13.2
Scarlet Fever	3.7	7.6	4.2	1.6	1.1	3.2	5.3	5.2	5.6	4.3	8.6	6.6
Measles	7.5	9.8	5.3	1.4	0.4	4.2	2.2	5.2	5.1	2.6	6.0	4.1
Diphtheria	3.3	3.8	3.4	2.0	1.3	2.5	1.7	1.5	1.5	1.0	1.7	1.5
Whooping Cough	2.3	1.9	1.7	0.4	0.6	1.7	0.3	0.9	1.1	1.1	0.8	1.0
Tuberculosis (respiratory)	21.2	20.6	21.4	20.7	21.7	26.3	36.5	21.4	22.4	14.7	12.6	12.1
Other Respiratory	41.9	44.8	43.3	33.2	53.8	76.7	48.4	36.3	34.5	22.1	24.0	19.8
Pneumonia	7.6	5.8	6.3	6.3	16.9	15.0	7.5	5.7	5.3	2.3	2.5	2.4
Influenza	1.7	1.3	1.2	0.9	3.1	4.0	1.7	1.0	1.0	1.3	1.2	1.1
Spanish Flu	0	0	0	0	2.7	4.2	0.3	0.0	0.0	0.0	0.0	0.0
Other	32.6	37.7	35.8	26.0	31.1	53.5	38.2	29.6	28.6	18.0	20.3	16.3
Other Airborne	5.8	7.9	9.1	7.8	6.7	17.0	7.5	7.2	6.8	3.6	3.3	2.9
Smallpox	0.3	1.3	1.8	2.1	2.3	12.3	2.2	2.0	1.2	0.2	0.0	0.0
Pyæmia	3.9	4.7	5.2	4.0	3.2	2.9	3.2	3.6	3.9	2.7	2.6	2.1
Stryptelæus	1.6	1.9	2.1	1.7	1.2	1.8	2.1	1.6	1.7	0.7	0.8	0.9
All Water and Food borne	53.7	53.6	42.7	62.6	40.9	51.4	56.0	55.1	56.6	20.5	28.0	21.4
Typhoid	1.2	1.6	1.4	3.4	1.9	3.4	8.4	6.2	3.9	1.0	1.3	1.1
Cholera	0	1.1	0	0	3.7	0.2	0.4	1.5	1.1	0.0	0.0	0.0
Dysentery	4.8	5.0	3.6	8.3	6.2	11.3	12.4	12.3	11.7	1.6	2.0	0.8
Gastro-enteritis	38.9	40.1	29.6	43.4	24.4	26.5	24.5	25.0	29.9	11.2	17.0	11.9
Non Respiratory Tuberculosis	3.9	3.5	3.3	2.6	2.5	2.2	3.1	3.2	3.7	2.9	3.5	3.7
Other	4.9	5.0	4.8	4.9	7.1	7.8	7.2	6.9	6.3	3.9	4.2	3.9
All Other Vector	1.3	1.4	2.5	1.7	6.0	95.0	48.4	13.7	47.4	1.9	0.9	0.9
Typhus (exanthematic)	0.3	0.2	1.0	0.6	4.5	86.6	40.5	6.1	23.8	0.7	0.2	0.1
Relapsing Fever	0	0	0.3	0.3	0.8	3.7	5.7	5.3	19.2	0.2	0.0	0.0
Other Typhus	0.1	0.1	0.2	0.3	0.4	4.7	1.3	1.7	3.7	0.1	0.1	0.1
Syphilis	0.9	0.9	0.9	0.4	0.2	0.3	0.1	0.4	0.5	0.8	0.4	0.5
Rabies	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Anthrax	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Glanders fever	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	MORTALITY BY REGISTERED CAUSE IN MOSCOW, 1914-1925; DEATHS PER 10,000 POPULATION												
	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
ALL SPECIFIED DEATHS	232.2	240.0	229.8	237.1	298.9	454.4	362.8	255.4	289.6	139.9	152.3	136.0	70.3
ALL MICRO ORGANISMS	140.7	151.4	133.6	131.4	132.5	278.0	207.1	146.4	181.4	71.8	85.7	70.3	
Air borne	85.7	96.4	88.4	67.1	85.6	131.6	102.7	77.6	77.4	49.3	56.9	48.0	
Tuberculosis (resp.)	21.2	20.6	21.4	20.7	21.7	26.3	36.6	22.4	22.4	14.7	12.6	13.2	
Common Inf. Diseases	16.8	23.1	14.6	5.4	3.4	11.6	10.2	12.7	13.3	9.0	17.0	13.2	
Other Resp. Diseases	41.9	44.8	43.3	33.2	53.8	76.7	48.4	36.3	34.9	22.1	24.0	19.8	
Other Diseases	5.8	7.9	9.1	7.8	6.7	17.0	7.5	7.2	6.8	3.6	3.3	2.9	
Water and Food borne	53.7	53.6	42.7	62.6	40.9	51.4	56.0	55.1	56.6	20.5	28.0	21.4	
Gastroenteritis	33.9	40.1	29.6	43.4	24.4	26.5	24.5	25.0	29.9	11.2	17.0	11.9	
Dysentery	4.8	5.3	3.6	8.3	6.2	11.5	12.4	12.3	11.7	1.6	2.0	0.8	
Other	10.0	8.5	9.5	10.9	10.3	13.4	19.1	17.8	15.0	7.7	9.0	8.7	
Other Vector	1.3	1.4	2.5	1.7	8.0	95.0	48.4	13.7	47.4	1.9	0.9	0.9	
Typhus	0.3	0.2	1.0	0.6	4.5	86.6	40.5	6.1	23.8	0.7	0.2	0.1	
Relapsing Fever	0	0	0.3	0.3	0.8	4.3	5.7	5.3	19.2	0.2	0.7	0.8	
Other	1.0	1.2	1.2	0.8	0.7	4.1	2.2	2.3	4.4	1.0	0.7	0.8	
ALL NON MICRO ORGANISMS	59.7	55.7	64.8	68.8	85.1	87.6	83.8	65.7	61.4	48.9	50.1	45.9	
Diseases of Infancy	19.5	17.0	21.5	23.1	24.2	19.2	17.9	23.4	20.4	17.3	16.6	12.9	
Cancer	9.4	9.3	10.1	8.6	9.8	8.2	8.6	8.9	8.3	8.1	9.7	7.4	
Cardio vascular	15.4	14.8	17.8	22.0	34.3	42.4	40.9	18.6	18.0	11.5	11.4	12.7	
Diseases of Nervous System	13.8	13.1	13.9	13.7	15.4	16.7	15.1	13.2	13.3	10.9	11.2	10.7	
Internal Diseases	1.6	1.5	1.5	1.4	1.4	1.1	1.3	1.6	1.4	1.2	1.1	0.9	
EXTERNAL	7.0	6.1	5.8	7.8	17.8	16.5	13.9	16.0	19.5	7.2	6.3	8.0	
Suicide	1.7	0.8	0.7	0.6	1.0	0.8	0.5	0.8	1.7	1.9	1.7	2.3	
Murder	0.4	0.3	0.2	0.6	1.0	0.4	0.3	0.3	0.6	0.6	0.4	0.5	
Other Violence	4.6	4.9	4.7	6.6	15.5	15.2	13.2	14.9	17.2	4.6	4.1	4.7	
Alcoholism	0.4	0.2	0.2	0.1	0.3	0.1	0.1	0.0	0.0	0.1	0.1	0.5	
OTHER	24.8	26.8	25.6	29.1	63.5	72.3	58.0	27.3	27.3	12.0	10.7	9.8	
Other (given)	15.1	14.8	17.6	20.6	44.0	39.9	31.2	16.3	14.8	7.5	6.7	6.4	
Cause uncertain (not given)	2.4	2.3	2.2	2.3	9.1	2.2	8.7	8.5	9.5	3.8	3.7	2.9	
Cause unknown	7.3	6.3	5.8	6.2	10.4	9.2	8.1	2.5	3.0	0.7	1.0	3.5	

Source: A.G.Kovalevskii, Ocherki po demografii Saratova (rozhdanost i smertnost za 1914-1928), p.52. and population data given above.

a) Moscow Retail Price Indices for Foodstuffs and Non-foodstuffs, 1913-1923.

Appendix 4.

Price data in Moscow, Petrograd and Saratov, 1914-1924.

a) Moscow retail prices indices for foodstuffs and non-foodstuffs, 1913-1923.

b) Retail prices for Rye flour and cotton in Moscow, Petrograd and Saratov, 1919-1921.

c) Retail prices for Rye flour in Moscow, Petrograd and Saratov, 1914-1921.

Sources:

- a) A.L.Vainshtein, Tseny i tsenoobrazovaniye v SSSR v vosstanovitel'nyy period 1921-1928, M. 1972, pp. 157-9.
- b) Calculated from Trudy TsSU, Tom VIII, vyp. 1, pp.96-118, and Trudy TsSU, Tom VIII, vyp. 4, pp.334-365.
- c) Calculated from data in same sources as (b) plus data from Vestnik Statistiki, 1921, No. 1-4, p.210.

		Foodstuffs	Non-Foodstuffs	Foodstuffs/ non-foodstuffs
1913/14	1913	1.00	1.00	1.00
	Jan 1914	1.07	1.18	0.91
1914/15	Jan 1915	1.22	1.26	0.97
	May 1915	1.49	1.38	1.08
1915/16	Oct 1915	1.47	1.83	0.80
	Jan 1916	1.76	2.30	0.77
	May 1916	1.94	2.75	0.71
1916/17	Oct 1916	2.32	3.26	0.71
	Jan 1917	3.36	5.15	0.65
	May 1917	4.91	8.13	0.60
1917/18	Oct 1917	7.44	13.71	0.54
	Jan 1918	39.7	16.9	2.35
	May 1918	97.7	24.0	4.07
1918/19	Oct 1918	164.0	47.0	3.49
	Jan 1919	382.0	110.0	3.47
	Apr 1919	584.0	167.0	3.50
1919/20	Jul 1919	965.0	331.0	2.92
	Oct 1919	1854.0	622.0	2.98
	Jan 1920	5500	1410	3.90
	Apr 1920	7550	3090	2.44
1920/21	Jul 1920	12600	6740	1.87
	Oct 1920	15810	10980	1.44
	Jan 1921	32800	22200	1.52
	Apr 1921	50300	35700	1.63
1921/22	Jul 1921	87200	57100	1.53
	Oct 1921	85700	85800	1.00
	Jan 1922	259000	201000	1.29
	Apr 1922	2871000	1475000	1.95
1922/23	Jul 1922	5337000	4144000	1.29
	Oct 1922	7100000	7439000	0.97
	Jan 1923	17900000	27100000	0.66
	Apr 1923	35800000	49100000	0.73
1923/24	Jul 1923	118.3mln	165.4mln	0.72
	Oct 1923	476.0mln	839.1mln	0.57
	Jan 1924	4946mln	6729mln	0.74
	Mar 1924	60247mln	72450mln	0.83

Source: Calculated from A.L.Vainshtein, Tseny i tsenoobrazovaniye v SSSR v vosstanovitel'nyy period 1921-1928, M. 1972, pp.157-159.

Data cited from Ekonomicheskii byulletin Konyunktornogo Instituta, 1926, No. 3 and No. 10. (At that time Vainshtein was Kondratiev's deputy editor of the Conjunction Institute.)

c) The Price of Rye Flour, in roubles per pud (* thousand roubles per pud) in
MOSCOW, PETROGRAD AND SARATOV (P, M, and S)

	MOSCOW		PETROGRAD		SARATOV		a)P/M	a)S/M	b)P/M	b)
	a)	b)	a)	b)	a)	b)				
1914	1.1		1.23		0.8		1.16	0.73		
1917 July	5.1		5.3		-		1.07	-		
1918 Spring	200)	420		431		1.45	0.27		
Autumn	290)								
1919 Jan		587		800		90			1.36	0.1
Feb		750		824		100			1.10	0.1
Mar)		1213		1520)		110)			1.25	0.1
Apr)	920	900	1600	1840)	50	170)	1.73)	0.05	2.04	0.1
May)		1690		1920)		210)			0.1	0.1
June		1877		-		280			0.1	0.1
July		2050		-		375			0.1	0.1
Aug		2333		-		500			0.1	0.1
Sept)		3250		3240		637)			1.00	0.1
Oct)	2400	7800	4000	6632	600	925)	1.68)	0.25	0.85	0.1
Nov)		9000		11200		1100)			1.24	0.1
Dec		(9100)		11480		1150			1.26	0.1
1920 Jan	8000	9167	12000	11400	-	1375	1.50		1.24	0.1
Feb		10000		15400		1550			1.54	0.1
Mar		14500		15400		1750			1.13	0.1
Apr	13500	12750	16600	16200	2200	2320	1.23	0.16	1.27	0.1
May		25000		15800		3260			0.63	0.1
June	19600	19300	17200	16600	3500	4000	0.88	0.17	0.86	0.1
July		27000		17000		5685			0.63	0.1
Aug		29500		21400		6750			0.79	0.1
Sept	26500	29000	24000	21400	12000	12170	0.90	0.45	0.74	0.4
Oct		79820		21000		-			0.70	0.1
Nov		31333		21600		15000			0.69	0.4
Dec		25000		28600		15000			1.14	0.6
1921 Jan	32000		32000	34000	16000	17000	1.00	0.50		
Feb		68750		62600		25000			0.91	0.3
Mar	120000		100000	135000	45000	48000	0.83	0.38		
Apr	(105000)		80000	80000		93000			(0.76)	(0.8)
May	103000	111350	120000	95000	-	150000	1.17		0.85	1.3
June		145600		132600		240000			0.91	1.6
July	161000	198500	140000	179000	270000	125000	0.87	1.68	0.90	0.6
Aug	120000	143000	120000	131000	160000	155000	1.00	1.33	0.92	1.0
Sept		130000		125000		190000			0.96	1.4
Oct		140000		128000		165000			0.91	1.1
Nov		155000		172000		230000			1.11	1.4
Dec		220000		180000		310000			0.82	1.4

	MOSCOW		PETROGRAD		SARATOV		a)P/M	a)S/M	b)P/M	b)
	a)	b)	a)	b)	a)	b)				
1922 Jan		655*		318*		500*			0.49	0.1
Feb		940		990		1200			1.05	1.1
Mar		2250		1970		2400			0.88	1.1
Apr		3687		3260		5500			0.88	1.1
May		8690		7570		7000			0.87	0.1
June		6917		9270		6600			1.34	0.1
July		7080		7800		8500			1.10	1.1
Aug		6330		9220		4700			1.46	0.1
Sept		5510		7770		4700			1.41	0.1
Oct		7660		7880		6500			1.03	0.1
Nov		13190		17900		8500			1.36	0.1
Dec		12630		20000		10000			1.58	0.1
1923 Jan		14750		19380		12000			1.31	0.1
Feb		15580		22980		11000			1.79	0.1
Mar		22700		34000		11500			1.50	0.1

* Note - figures after Jan. 1922 given in thousand roubles

Sources a) Vestnik Statistiki 1921, No. 1-4, p.210

b) 1919-Oct 1921, Trudy TsSU, Tom VIII, vyp 1, pp.96-118

b) Oct 1921-Mar 1923, Trudy TsSU, Tom VIII, vyp 4, pp. 334-365

Appendix 5

Food consumption studies data, 1919-1925.

e) Moscow	(i) Urban food consumption studies, 1919-1925
	(ii) rural food consumption studies, 1920-1924
b) Leningrad	(i) Urban food consumption studies, 1919-1925
	(ii) rural food consumption studies, 1920-1924
c) Saratov	(i) Urban food consumption studies, 1919-1925
	(ii) rural food consumption studies, 1920-1924
d) Summary	

Sources: Urban 1919-1924, Sostoyaniye pitaniya gorodskogo naseleniya SSSR, 1919-1924gs.
 (The condition of the urban food supply in the USSR 1919-1924), Trudy TsSU, Tom XXX, vyp. 1. M. 1926, pp. 100-249.
Urban 1924/25, Sostoyaniye pitaniya gorodskogo naseleniya SSSR, 1924/25ga.
 Trudy TsSU, Tom XXX, vyp. 3, pp. 50-103.
Rural 1920-1924, Sostoyaniye pitaniya selskogo naseleniya SSSR, 1920-1924 ss.
 (The condition of the rural food supply in the USSR 1920-1924), Trudy TsSU, Tom XXX, vyp. 2, M. 1928, part 2, pp. 2-155.

a) Moscow and Moscow Guberniya food consumption surveys

(i) Moscow town.

Date.	Number of		Investigation days	Days per hh or person	Average consumption per adult per day of		
	Households	People			K.Cals	Protein in gms.	Animal protein in gms.
1918/19							
March 1919	3176	11441	7112*	2.2*	2066	64.7	29.2
July 1919	396	1503	1880*	4.7*	2554	60.2	8.1
1919/20							
Dec 1919	491	1620	2853*	5.8*	2791	67.0	4.6
May 1920	407	1304	1166*	2.9*	3430	90.6	13.8
1920/21							
Oct 1920	422	1754	12270	7.0	2744	69.7	7.5
Apr 1921	436	1816	12768	7.0	2411	72.6	12.9
1921/22							
Sept 1921	431	1633	11396	7.0	2760	67.1	11.0
Feb 1922	459	2085	14737	7.1	2749	69.4	12.2
1922/23							
Oct 1922	472	1865	13194	7.1	3219	87.3	23.5
Feb 1923	494	1893	13349	7.1	3337	90.9	26.7
1923/24							
Feb 1924	498	2100	14882	7.1	3326	97.6	31.8
1924/25							
Oct 1924	499	2101	14671	7.0	3547	113.6	42.0
Feb 1925	496	2290	15988	7.0	3444	114.0	46.1
1925/26							
June 1925	500	2397	16568	6.9	3307	113.6	47.6

Note - Those marked with asterisk* refer to investigation days for each household, whereas later data appear to refer to investigation days for each person.

ii) Moscow Guberniya rural food consumption.

	Households	Number of People	Investigation days	Distribution according to sown area.			Average consumption per adult according to sown area.					
				Nil	Small	Average	All	Nil	Small	Average		
1919/1920	48	299	2029	8.3	39.6	29.2	27.9	2845	1860	2462	3308	2830
Jan/Feb 1920												
1920/21	58	362	2464	1.7	12.0	34.5	32.8	3320	1721	2987	3967	3173
Nov 1920												
Feb 1921	96	596		5.2	32.3	30.2	20.8	2924	1479	2469	3443	3001
1921/22	284	1705		4.2	34.2	28.5	20.1	3576	2826	3471	3888	3672
Oct 1921												
Feb 1922	378	2144		5.8	20.6	36.3	29.6	3716	3226	3499	3754	3968
1922/23	327	2011		2.8	17.1	30.0	43.1	3943	3358	3584	4263	3958
Oct 1922												
Feb 1923	359	2133		3.3	17.3	34.3	39.8	3783	3419	3696	3689	3911
1923/24	366	2226		1.9	14.8	22.4	47.3	4081	4330	4364	4269	4002
Feb 1924												
June 1924	356	2217		1.7	14.6	28.7	44.9	4258	3243	4065	4392	4305

b) Petrograd/Leningrad town food consumption investigations.

	Number of		Investigation days.	Days per hh or person	Average consumption per adult per day of		
	Households	People			K.Cals.	Protein in gms.	Animal protein in gms.
1918/19							
March 1919	3090	8850	8551*	2.8*	1598	62.3	35.1
July 1919	99	305	714*	7.2*	2415	66.1	20.6
1919/20							
Dec 1919	399	1040	1530*	3.8*	2976	78.0	16.1
May 1920	323	853	910*	2.8*	2690	77.2	21.5
1920/21							
Oct 1920	379	908	6359	7.0	3375	84.4	13.9
April 1921	532	1447	9098	6.3	2615	72.2	13.0
1921/22							
Sept 1921	480	1216	7542	6.2	2846	74.9	15.4
Feb 1922	479	1385	9164	6.6	3003	82.9	20.0
1922/23							
Oct 1922	468	1521	10322	6.8	3379	94.9	29.6
Feb 1923	490	1506	9982	6.6	3627	108.8	37.6
1923/24							
Feb 1924	495	1594	10791	6.8	3489	101.9	37.5
1924/25							
Oct 1924	496	1591	10573	6.6	3512	109.5	39.5
Feb 1925	500	1596	10706	6.7	3636	117.2	45.1
1925/26							
June 1925	500	1572	10419	6.6	3521	119.0	51.6

- Note - those marked with asterisk* refer to investigation days for each household, whereas later data appear to refer to investigation days for each person.

c)i Saratov town food consumption investigations.

	Number of				Average consumption per adult per day of		
	Households	People	Investigation days.	Days per hh or person	K.Cals	Protein in gms.	Animal protein in gms.
1918/19							
March 1919	622	2829	1855*	3.0*	2773	69.0	15.4
July 1919	112	508	2205	4.3	2766	71.8	17.7
1919/20							
Dec 1919	105	466	2736	5.9	3156	82.0	10.3
May 1920	109	444	1288	2.9	2275	63.9	10.5
1920/21							
Oct 1920	131	500	3528	7.1	2425	69.3	18.6
April 1921	152	513	3534	6.9	2723	75.3	12.7
1921/22							
Sept 1921	155	547	3716	6.8	2025	59.8	17.3
Feb 1922	160	574	3998	7.0	1901	55.8	14.5
1922/23							
Oct 1922	160	599	4259	7.1	2827	73.8	15.9
Feb 1923	160	586	4137	7.1	2739	72.8	16.3
1923/24							
Feb 1924	160	614	4299	7.0	3041	77.1	15.7
1924/25							
Oct 1924	160	625	4305	6.9	3281	103.1	29.5
Feb 1925	160	645	4500	7.0	3005	96.9	28.8
1925/26							
June 1925	160	604	4166	6.9	3269	105.5	34.2

Note - those marked with asterisk* refer to investigation days for each household, whereas later data appear to refer to investigation days for each person.

U)ii Leningrad Guberniya rural food consumption investigation.

Year	Number of Households	Number of People	Distribution according to sown area			Average consumption per adult according to sown area.							
			Nil	Small	Average	Large	Agric. secondary	All	Nil	Small	Average	Large	Agric. secunda
1919/20	33	222	0	15.2	27.3	57.5	-	3299	0	1961	3337	3587	-
1920/21	414	2272	16.2	18.4	35.3	25.4	4.7	3333	2558	3099	3407	3748	2833
Nov 1920	262	1393	5.0	23.3	37.0	24.4	10.3	3041	2525	2604	3090	3469	2614
Feb 1921	291	1563	6.5	21.3	37.8	25.1	9.3	3751	2386	3501	3939	3845	3110
Oct 1921	315	1605	11.1	21.0	34.9	25.7	7.3	3724	2720	3578	3764	4078	3328
1922/23	217	1133	7.8	15.7	35.0	28.6	12.9	3306	3236	3773	3848	4266	3401
Oct 1922	234	1278	6.4	19.7	35.9	27.8	10.2	3645	3698	3397	3573	3883	3474
1923/24	407	1657	2.3	16.3	32.6	42.3	6.5	3932	3144	3728	3852	4116	3427
Feb 1923	303	1586	4.7	20.8	35.0	33.6	5.9	3045	3889	3723	4147	4149	3912

d) Summary Food consumption in K Calories per day per adult.

	MOSCOW		LENINGRAD		SARATOV	
	Town	Rural	Town	Rural	Town	Rural
1918/19						
March 1919	2066		1593		2773	
July 1919	2554		2415		2766	
1919/20						
Dec 1919	2791		2976		3156	
Jan/Feb 1920		2845		3299		4474
May 1920	3430		2690		2275	
1920/21						
Oct 1920	2744		3041		2425	
Nov 1920		3320		3333		3626
Feb 1921		2924		3041		3196
April 1921	2411		2420		2723	
1921/22						
Sept 1921	2760		2606		2025	
Oct 1921		3576		3757		2615
Feb 1922	2749	3716	2663	3724	1901	1762
June 1922						1945
1922/23						
Oct 1922	3219	3943	2949	3896	2827	4242
Feb 1923	3337	3783	3237	3645	2739	3892
1923/24						
Feb 1924	3326	4081	3069	3932	3041	4295
June 1924		4258		4045		4323
1924/25						
Oct 1924	3547		3512		3281	
Feb 1925	3444		3636		3005	

1911 - Saratov guberniya Rural food consumption investigation.

Date	Number of Households	People	Distribution according to sown area.				Average consumption per adult according to sown area.						
			Nil	Small	Average	Large	All	Nil	Small	Average	Large	Agric secondary	
919/20 an/feb 1920	192	1296	0.5	45.8	40.1	13.6	0	4474	2539	4192	4503	4984	0
920/21 Nov 1920 Feb 1921	297 274	1825 1712	20.2 11.7	15.8 13.5	32.3 31.7	23.6 27.4	8.1 15.7	3626 3196	3144 2559	3782 3267	3546 3200	3949 3417	3280 2806
921/22 Oct 1921 Feb 1922 June 1922	357 332 323	2070 3128 1945	7.8 5.2 -	28.0 37.0 59.8	35.6 39.1 28.5	22.4 14.9 11.7	6.2 3.8 -	2615 1762 1945	1077 1594 -	2603 1780 1721	2553 1698 1977	2962 1878 2593	1960 1806 -
922/23 Oct 1922 Feb 1923	585 536	3596 3261	5.3 3.2	42.3 46.3	31.7 34.2	14.3 13.0	6.4 3.3	4242 3892	3545 3445	4063 3796	4261 3952	4607 4011	3911 3391
923/24 Feb 1924 June 1924	435 406	2689 2575	2.1 1.6	25.8 25.0	41.3 37.9	27.6 32.9	3.2 2.6	4295 4323	3469 3680	3999 3886	4178 4329	4626 4520	3491 4226

airborne Micro Organisms	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
Common Infective Diseases											
Scarlet Fever	morb. 37.1 mort. 3.7 let. 9.9%	49.1 7.6 15.4%	36.5 4.2 11.5%	14.8 1.6 11.0%	5.8 1.1 14.9%	11.9 3.2 26.7%	24.7 5.5 22.6%	22.9 5.2 22.8%	24.9 5.6 22.4%	31.7 4.3 13.5%	80.4 8.6 10.6%
Measles	morb. 53.1 mort. 7.5 let. 14.2%	70.3 9.8 14.0%	32.1 5.3 16.5%	5.0 1.4 27.9%	2.0 0.4 15.3%	31.8 4.2 13.3%	15.1 2.2 14.4%	38.4 5.2 13.5%	31.6 5.1 16.0%	43.6 2.6 6.1%	103.8 6.0 5.8%
Diphtheria	morb. 27.5 mort. 3.3 let. 11.9%	23.9 3.3 15.9%	30.0 3.4 11.2%	18.5 2.0 10.7%	11.5 1.3 9.7%	9.9 2.5 25.0%	10.2 1.7 16.5%	9.4 1.5 15.5%	8.3 1.5 13.1%	5.8 1.0 16.6%	10.2 1.7 17.1%
Whooping Cough	morb. 19.6 mort. 2.3 let. 11.5%	13.3 1.9 14.2%	10.6 1.7 15.6%	2.5 0.4 17.0%	4.3 0.6 11.7%	6.6 1.7 25.6%	2.5 0.8 30.8%	7.3 0.8 11.5%	11.0 1.1 10.0%	16.1 1.1 6.3%	18.1 0.8 4.2%
Other Respiratory											
Influenza	morb. 8.0 mort. 1.7 let. 21.1%	7.7 1.3 16.3%	9.5 1.2 12.9%	8.7 0.9 9.9%	35.3 3.1 7.3%	16.9 4.0 23.7%	11.1 1.7 15.2%	22.7 1.0 4.4%	23.5 1.0 4.4%	97.1 1.3 1.3%	95.4 1.2 1.2%
Other Airborne											
Smallpox	morb. 2.2 mort. 0.3 let. 15.3%	6.3 1.3 20.3%	7.9 1.8 22.8%	8.6 2.1 24.2%	8.0 2.3 24.2%	33.7 12.3 36.6%	6.8 2.2 32.7%	5.1 2.0 38.3%	3.1 1.2 39.4%	0.7 0.2 20.5%	0.2 0.0 15.2%
Erysipelas	morb. 21.3 mort. 1.6 let. 7.6%	22.5 1.9 8.7%	20.2 2.1 10.4%	15.6 1.7 7.0%	6.1 1.2 16.9%	4.8 1.8 37.2%	10.2 2.1 20.4%	11.9 1.6 13.4%	11.5 1.7 15.2%	11.9 0.7 5.3%	16.8 0.8 4.3%

continued....

Appendix 6.

Infection and mortality data, Moscow 1914-1924.

Source: Statisticheskii Ezhegodnik g. Moskvy i Moskov i Moskovskoi Gub: vyp 2, Statisticheskkiye dannyye za 1914-1925gg. M, 1927, pp.83,94-95, 154-65.

	1914/17	1918/22	1923/24
Air borne Micro Organisms			
Common Infantile			
Scarlet Fever	12.0%	21.9%	12.1%
Measles	18.2%	14.5%	6.0%
Diphtheria	12.4%	17.0%	16.9%
Whooping Cough	14.6%	17.9%	5.3%
Other Respiratory			
Influenza	15.1%	11.0%	1.3%
Other Airborne			
Smallpox	20.8%	34.2%	17.9%
Erysipelas	8.4%	20.6%	4.8%
Water and Food borne			
Typhoid	13.5%	24.7%	13.5%
Cholera	44.5%	46.1%	-
Dysentery	22.3%	59.8%	13.7%
Other Vectors			
Typhus	11.1%	13.5%	6.0%
Relapsing Fever	5.2%	9.9%	3.3%
Other Typhus	8.5%	15.6%	2.5%
Malaria	2.5%	7.6%	0.3%

	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
Water & Food borne Micro Organisms											
Typhoid	morb. 5.1 mort. 1.2 let. 19.5%	8.2 1.6 19.4%	6.6 1.4 21.6%	25.3 3.4 13.3%	6.6 1.8 23.0%	12.0 3.4 27.9%	39.8 8.4 21.3%	28.8 6.2 21.5%	13.0 3.9 29.9%	5.9 1.0 16.8%	11.7 1.3 10.1%
Cholera	morb. 0 mort. 0 let. -	2.4 1.1 44.5%	0 0 -	0 0 -	6.2 3.9 53.5%	0.8 0.2 29.1%	0.9 0.4 47.1%	3.1 1.5 47.8%	2.1 1.1 52.9%	0 0 -	0 0 -
Dysentery	morb. 20.3 mort. 4.3 let. 23.9%	20.8 5.0 24.0%	15.1 3.6 24.0%	47.5 8.3 17.4%	9.2 6.2 56.3%	18.2 11.3 62.1%	25.1 12.4 49.6%	27.4 12.3 44.3%	13.7 11.7 86.3%	7.9 1.6 19.4%	11.1 2.0 17.9%
Other Vector borne Micro Organisms											
Typhus malarthatic	morb. 1.9 mort. 0.3 let. 12.9%	2.1 0.2 9.4%	6.5 1.0 14.8%	8.1 0.6 7.2%	42.8 4.5 8.9%	537.4 86.6 7.0%	215.5 40.5 18.9%	41.4 6.1 14.7%	131.1 23.9 18.1%	5.8 0.7 10.9%	2.6 0.2 6.0%
Relapsing Fever	morb. 0.2 mort. 0 let. 16.1%	1.2 0 1.9%	16.6 0.3 1.6%	22.7 0.3 1.2%	23.5 0.8 2.8%	46.7 4.3 9.3%	47.9 5.7 12.0%	53.6 5.3 9.9%	125.0 19.2 15.4%	3.8 0.2 6.0%	0.7 0.3 1.5%
Other Typhus	morb. 1.3 mort. 0.1 let. 8.1%	1.7 0.1 6.5%	1.4 0.2 13.4%	5.0 0.3 6.1%	3.4 0.4 8.8%	18.8 3.7 19.4%	17.3 1.8 10.3%	11.9 1.7 14.2%	14.6 3.7 25.1%	2.7 0.1 3.2%	3.4 0.1 1.8%
Malaria	morb. 1.7 mort* 0 let. 2.0%	1.4 0 1.5%	1.0 0 1.6%	0.8 0 5.0%	1.3 0 2.3%	0.4 0.1 25.9%	1.5 0.1 4.7%	9.7 0.2 2.5%	20.8 0.5 2.6%	96.3 0.2 0.2%	18.7 0.1 0.4%

Sources: Calculated from Stat. Ezhegodnik...M. 1927, pp.88,94-95, 154-165.

Notes: The lethality of different diseases was calculated directly from the number of cases of mortalities and morbi. If it therefore avoids the rounding errors apparent in the above table.

* Malaria was not given as a separate cause of mortality. The figures given here refer to Mortality from *Parasitich*...

RYE AND RYE PRICES (KAZAN) FOR RYE (CHAIN FLOUR AND BREAD) ON URBAN MARKETS IN DIFFERENT TOWNS AND REGIONS,
AND IN RELATIONSHIP TO THE PRICES IN MOSCOW (OBLAST AND CITY)

rice in cubics/ m	MOSCOW OBLAST	LENINGRAD OBLAST	CENTRAL VOLGA OBLAST		UKRAINE		CENTRAL VOLGA/ MOSCOW		UKRAINE/MOSCOW INDEX
			Rye flour	Rye bread	Rye flour	Rye bread	Rye flour	Rye bread	
926/27	13.8	90	99.7	120	57.0	70	57.1	80	0.73
927/28	49.4	126	108.0	120	80.9	30	60.9	90	0.67
928	177.4	210	214.1	220	103.4	119	91.6	120	0.52
929	403.6	420	548.5	630	232.1	260	216.1	280	0.62
930	403.7	490	522.5	670	489.5	600	307.4	420	1.72
931	53.5	720	485.2	660	575.4	770	651.7	1010	1.07
932 Aug	141.0	1760	1176.8	1580	1116.2	2610	28385	4070	1.48
Jul 15/1.0	2170		1650.0	1790	2110.0	2820	4570	5560	1.30
25/12	4530	3290							(1.02)
25/1	5940	5050							(3.37)
25/2	7290	4740							(3.30)
25/3	6940	3370							(2.97)
25/4	6700	3250							(3.08)
25/5	7250	3620							(2.76)
25/6	7580	3930							2.29
25/7	8400	3910							1.61
25/8	5300	3000							1.31
25/9	4500	2780							6.70
25/10	3900	2710							0.54
25/11	4200	2250							0.63
25/12	3410	2140							0.61
25/1	3330	2290							0.62
25/2	3470	2160							

Sources: Товароборота за годы реконструктивного периода, II, 1932, pp.144-5
Kolhoznyaya tozgovlya v 1932-34 ER. Vyp. I, M. 1935, pp.30-31

Appendix 7

Data for 1926-1940.

- Demographic data (see Second Revision of SIPS Nos.1 and 2)
- Food availability data (see SIPS No.2, pp.85-102) but data will be revised.
- Price data 1926/27-1934
- Infectious disease morbidity
 - 1913-1940 for the USSR as a whole

Appendix 7d Infectious disease morbidity 1913-1940.

- i) Series of epidemiological data issued by the USSR to the Health organisation of the League of Nations until April 1937 and published in the Annual Epidemiological Reports of the League of Nations, cited here from the compilation made by the U.S. Office of Strategic Services, Research and Analysis Branch, R and A Report No. 166: Civilian Health in the USSR, Part 1, Civilian medical care and incidence of disease in the USSR, October 1944, p.106. (NARS, OSS, RSA 1688)
- ii) Current Soviet series of data on morbidity calculated from O.V.Baroyan, Itogy poluvekovoi borby s infektsiyami v SSSR, M. 1962, pp.49,54,56,63,77,97, 104, 109, 121, 135, 138, 143.