GRAIN PRODUCTION AND UTILISATION IN RUSSIA AND THE USSR BEFORE COLLECTIVISATION

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VOLUME III

(APPENDICES)

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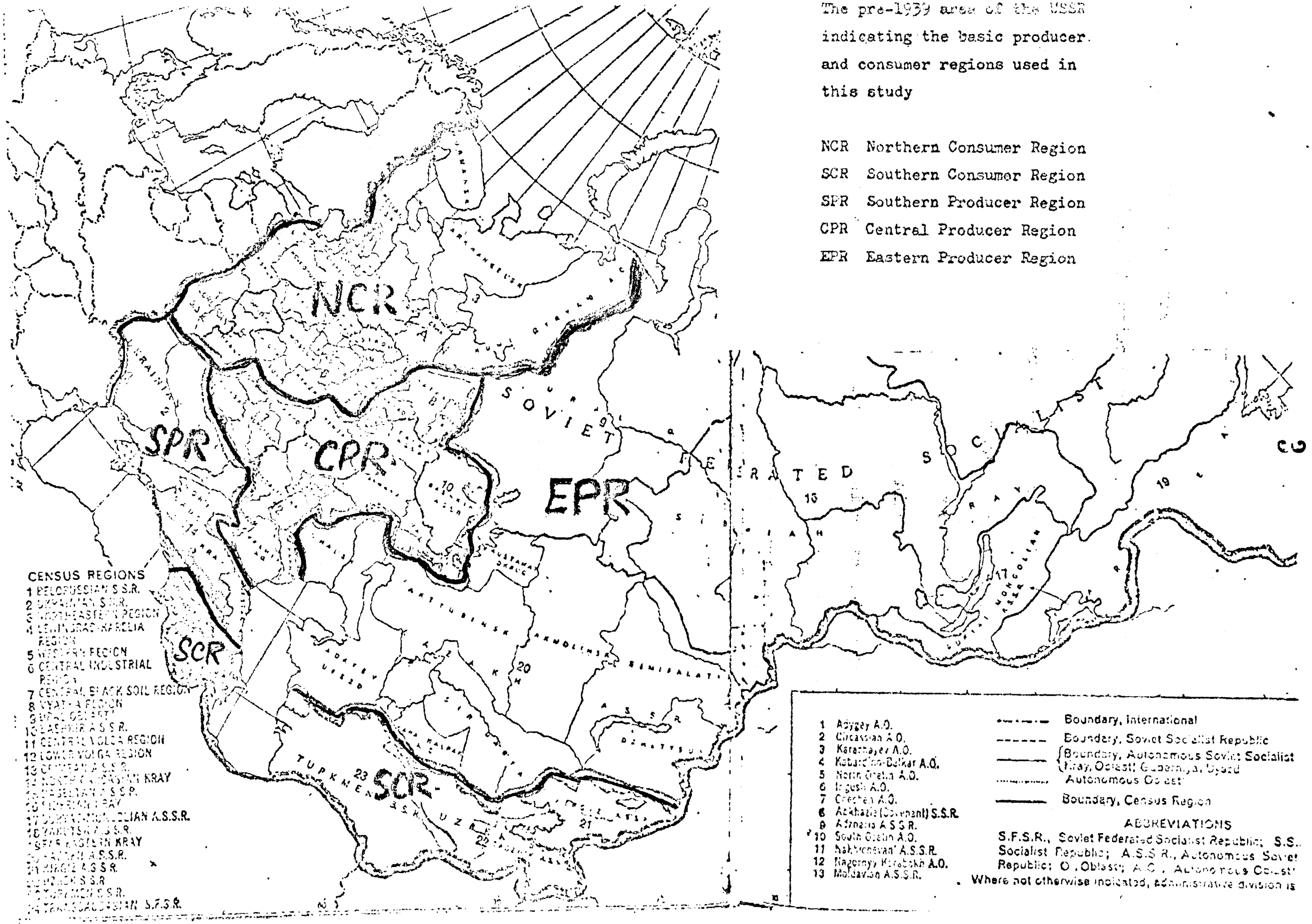
1/ A map indicating the basic producer and consumer regions used in this study.

Map follows over page.

Please note this is only an approximation to the areas used at any specific time, with any specific series of data. For a more detailed indication of the regions please consult the regional listings that are given with the different series of data.

The pre-1939 area of the USSR indicating the basic producer and consumer regions used in this study

NCR Northern Consumer Region
SCR Southern Consumer Region
SPR Southern Producer Region
CPR Central Producer Region
EPR Eastern Producer Region



2/ Grain production long term trends

Grain yields in Russia from1801-1914, measured in 'sam' (yield per unit sown) from V.G.Mikhailovsky.

Year	Yield	Year	Yield	Year	Yield
1801	3.04	1841	3.4	1881	4.73
1802	3.4	1842	4.39	1882	4.31
1803	3.65	1843	4.36	1883	4.04
1804	4.04	1844	3.81	1884	4.3
1805	3.2	1845	3.42	1885	3.65
1806	3.47	1846	3.38	1886	4.28
1807	3.73	1847	3.6	1887	4.87
1808	3.89	1848	2.72	1888	4.69
1809	3.33	1849	4.03	1889	3.65
1810	3.4	1850	2.84	1890	4.14
1811	2.85	1851	5.0	1891	3.26
1812	3.4	1852	3.82	1892	4.0
1813	3.43	1853	3.61	1893	5.63
1814	4.0	1854	3.51	1894	5.68
1815	3.1	1855	2.6	1895	5.04
1816	3.4	1856	3.26	1896	5.04
1817	3.7	1857	3.95	1897	4.12
1818	4.1	1858	4.08	1898	4.76
1819	4.0	1859	2.87	1899	5.4
1820	3.4	1860	3.78	1900	5.01
1821	3.25	1861	3.51	1901	4.08
1822	3.1	1862	3.57	1902	5.77
1823	2.9	1863	4.26	1903	5.2
1824	3.5	1864	3.28	1904	6.13
1825	3.5	1865	3.01	1905	4.86
1826	3.67	1866	3.84	1906	4.05
1827	3.61	1867	3.1	1907	4.88
1828	3.9	1868	3.75	1908	5.04
1829	3.75	1869	4.06	1909	6.33
1830	2.91	1870	4.59	1910	5.87
1831	3.2	1871	3.52	1911	4.17
1832	2.8	1872	3.88	1912	6.24
1833	2.38	1873	3.94	1913	6.75
1834	3.62	1874	4.34	1914	5.06
1835	3.92	1875	3.38		
1836	4.1	1876	3.85		
1837	3.98	1877	4.26		
1838	3.93	1878	4.49		
1839	2.67	1879	3.78		
1840	3.82	1880	3.65		

Year	Yield
1801-1806	3.49
1807-1814	3.5
1815-1822	3.5
1823-1830	3.47
1831-1838	3.42
1839-1846	3.66
1847-1854	3.52
1855-1862	3.45
1863-1870	3.74
1871-1878	3.95
1879-1886	4.09
1887-1894	4.49
1895-1902	4.90
1903-1910	5.37
1911-1914	5.50

Source; V.G.Mikhailovsky, Byulleten TsSU, 1921, No.50, cited here from A.V.Chayanov, 'Opyiti razresheniya problemy urozhaya', in A.V. Chayanov (ed.) Problemy urozhaya, M.1926, p.35.

3/ Grain production data by region

a) Pre revolutionary grain production data

i) 1802-11, 1841-50, 1851-60 Kovalchenko's data

ii) 1850's-1890's Nifontov and Pronin's data

iii) 1883-1915 annual TsSK data

iv) 1909/13 Groman's data

v) 1909/13, 1916 and 1917 Lositsky's data

vi) 1901/5, 1906/10, 1911/15, 1913, 1916, 1917 Kondratiev and Oganovsky's data

b) Post revolutionary grain production data

i) Sources

ii) Notes

iii) Regions

iv) Basic data

i) 1802-11, 1841-50, 1851-60 Kovalchenko's data

a) Source of data I.D. Kovalchenko, Russkoye krepostnoye krestyanstvo v pervoi polovinye XIX veka, M.1967, p.386. These data came originally from the annual governor's reports for each gubernii

b) Grouping of regions (see overpage)

c) Units

The primary data are given in volume units (Chetvert). The production and sowings data have been converted into weight measurements (tons) by using a crude conversion coefficient of 1 chetvert = 7.67 pds = 0.126 tons. This coefficient can only be approximate because a unit volume of the different grain had different weights (as explained above) therefore as the variety mix of different grains changed over time it would be necessary to change the coefficient. The figures given here should consequently only be considered approximate. No conversion has been attempted for the yield data which are given in sown units produced per unit sown.

The regionalisation used by I.D.Kovalchenko

My groupings	Kovalchenko's groupings	Administrative regions
NCR(K)		
	Severnyi (Northern)	Arkhangelskaya G., Olonetskaya G., Vologodskaya G.,
	Severo-Zapadnyi (North-Western)	Peterburgskaya G., Novgorodskaya G., Pskovskaya G.,
	Smolenskaya G	Smolenskaya G.,
	Zapadnyi (Western)	Mogilevskaya G., Vitebskaya G., Minskaya G., Vilenskaya G., Grodnenskaya G., Kovenskaya G., Belostokskaya Ob.
	Tsent.N.Ch.Zem (Central, non Chernozem)	Moskovskaya G., Vladimirskaya G., Nizhegorodskaya G., Kostromskaya G., Yaroslavskaya G., Tverskaya G., Kaluzhskaya G.,
SPR(K)	Ukrain.levoberezhnyi (Ukraine left bank)	Chernigovskaya G., Poltavskaya G., Kharkovskaya G.,
	Yugo-Zapadnyi (South-West)	Kievskaya G., Podolskaya G., Volyinskaya G.
	Yuzhnii Stepnoi** (Southern Steppe)	Khersonskaya G., Tavricheskaya G., Ekaterinoslavskaya G., Oblast Voiska Donskogo
CPR(K)	Tsent.Ch.Zem (Central ChernoZem)	Tulskaya G., Ryazanskaya G., Orlovskaya G., Tambovskaya G., Kurskaya G., Voronezhskaya G.,
	N.Volzhskii i Zavolzhskii (Lower Volga & Volga)	Saratovskaya G., Astrakhanskaya G., Samarskaya G.*
	Sred.Volzhskii (Central Volga)	Kazanskaya G., Penzenskaya G., Simbirskaya G.*
EPR(K)	Priuralskii (Urals)	Vyatskaya G., Permskaya G,, Orenburgskaya G.*
Baltic	Pribaltiiskii (Baltic)	Liflyandskaya G., Estlyandskaya G., Kurlyandskaya G.

Source: I.D. Kovalchenko, Russkoye krepostnoye krestyanstvo v pervoi polovinye XIX v., M.1967, p.59.

Notes: *Samarskaya G. was only formed in 1850. It was formed out of Samarskii and Stavropolskii uezds of Simbirskaya G. Buzulukskii, Buguruslanskii and Bugulminskii uezds of Orenburgskaya G. and Nikolaevskii and Novouzenskii uezds of Saratovskaya G. Before 1850 these uezds therefore have to be adjusted in the regional totals.

**Kovalchenko also occasionally added Bessarabskaya G. and Stavropolskaya G. to his Yuzhnoi Stepnoi region, but unfortunately it is not indicated when he has done this.

Grain production sowings and yields in mln chetvert,'sam' and approximately in mln tons in the first half of the nineteenth century. Source: I.D.Kovalchenko, Russkoye krepostnoye krestyanstvo v pervoi polovinye XIX veka, M.1967, p.386.

Region	1802-11 Prodn.	1802-11 Sowings	1802-11 yield	1841-50 Prodn.	1841-50 Sowings	1841-50 yield	1851-60 Prodn.	1851-60 Sowings	1851-60 yield
NCR(K)									
Severnyi	2.325	0.684		2.786	0.787		3.002	0.884	
SeverO-Zapadnyi	6.669	2.431	2.74	5.742	2.113	2.72	5.543	2.068	2.68
Smolenskaya G.	5.080	1.936		5.288	2.115		4.779	2.094	
Zapadnyii	19.563	5.427		15.128	5.111		12.931	4.875	
Tsent.N.Ch.Zem	23.589	8.945		27.248	10.036		28.557	10.667	
All NCR(K)	57.226	19.423	2.95	56.192	20.162	2.79	54.812	20.588	2.66
in mln tons	7.21	2.45		7.080	2.54		6.906	2.59	
SPR(K)									
Ukrain Levoberezh	13.663	4.275		12.952	3.757		14.389	4.380	
Yugo Zapadnyi	12.558	2.905		16.591	3.965		14.773	3.962	
Yuzhnyi Stepnoi	3.304	0.721		4.676	1.492		6.966	1.795	
All SPR(K)	29.525	7.901	3.74	34.219	9.214	3.71	36.128	10.137	3.56
	3.720	1.00		4.312	1.161		4.55	1.277	
CPR(K)									
Tsent.Ch.Zem	39.273	10.080		46.373	13.065		44.340	14.016	
N.Volzhskii & Volzh	7.024	2.299		14.025-	4.252		16.271	4.563	
Sred.Volzhskii	12.867	4.333		16.080	5.004		18.508	5.212	
All CPR(K)	59.164	16.712	3.54	76.478	22.321	3.43	79.119	23.791	3.33
	7.455	2.11		9.64	2.812		9.97	2.998	
EPR(K)									
Priuralskii	8.939	3.004	2.98	21.123	6.062	3.48	23.811	6.923	3.44
in mln tons	1.126	0.38		2.661	0.764		3.000	0.872	
European Russia	154.854	47.04	3.29	188.012	57.759	3.26	193.87	61.439	3.16
	19.512	5.93		23.690	7.278		24.428	2.741	
Pribaltiiskii	3.771	0.741	5.09	4.460	1.045	4.27	4.754	1.045	4.55
	0.475			0.562			0.599		

ii) 1850's-1890's Nifontov and Pronin's data

a) Sources of data

The 50 provinces of European Russia from A.S. Nifontov, Zernovoye proizvodstvo Rossii vo vtoroi polovinye XIX veka, M.1974, pp. 157, 229.

The 8 provinces and oblasts of Siberia from V.I. Pronin, 'Dinamika urovnya zemledelcheskogo proizvodstva sibiri vo vtoroi polovinye XIX - nachalye XX veka', in Istoriya SSSR, 1977, No.4, pp. 63, 74, 75.

These data came originally from the annual governors' reports.

b) Groupings of provinces

My major regions	Nifontov's & Pronin's Regions	Basic Administrative Regions
NCR(N)	Severnyi (Northern)	Arkhangelskaya G, Vologodskaya G, Olonetskaya G,
	Severo-zapadnyi (North-Western)	Novgorodskaya G, Peterburgskaya G, Pskovskaya G,
	Zapadnyi (Western)	Vilenskaya G, Vitebskaya G, Grodnenskaya G, Kovenskaya G, Minskaya G, Mogilevskaya G, Smolenskaya G,
	Tsentralno-nechernozemnyi (Central non chernozem)	Vladimirskaya G, Kaluzhskaya G, Kostromskaya G, Moskovskaya G, Nizhegorodskaya G, Tverskaya G, Yaroslavskaya G,
SPR(N)	Levoberezhnyii Ukrainskii (Left bank Ukraine)	Poltavskaya G, Kharkovskaya G, Chernigovskaya G,
	Pravoberezhnyii Ukrainskii (Right bank Ukraine)	Volyinskaya G, Kievskaya G, Podolskaya G,
	Yuzhnyii Stepnoi (Southern Steppe)	Bessarabskaya G, Donskaya Oblast, Ekaterinoslavskaya G, Tavricheskaya G, Khersonskaya G,

CPR(N)	Tsentralno-Chernozemnyii (Central Chernozem)	Voronezhskaya G, Kurskaya G, Orlovskaya G, Penzenskaya G, Ryanzanskaya G, Tambovskaya G, Tulskaya G,
	Yugo-vostochnyii Zavolzhskii (South Eastern Volga)	Astrakhanskaya G, Orenburgskaya G, Ufimskaya G,
	Nizhnyevolzhskii (Lower Volga)	Samarskaya G, Saratovskaya G,
	Srednyevolzhskii (Middle Volga)	Kazanskaya G, Simbirskaya G,
EPR(N)	Priuralskii (Urals)	Vyatkskaya G, Permskaya G,
EPR (N&P)	Zap. Sibir (Western Siberia)	Tobolskaya G, Tomskaya G,
	Vost. Sibir (Eastern Siberia)	Akmolinskaya G, Yenisyaiskaya G, Irkutskaya G, Zabaikalskaya G, Yakutskaya G,

Sources: A.S. Nifontov, ibid, M.1974, pp. 10-11,
V.I. Pronin, ibid, Istoriya SSSR, 1977, No.4, pp. 66, 74-75.

c) Units

The primary data are given by Nifontov and Pronin in volume units (chetvert). For converting volume measurements into weight the same procedure is used as for the Kovalchenko data.

Grain production by region in the 54 provinces of European Russia and Siberia according to Nifontov's and Pronin's data.

	1850's	1860's	1870's	1880's	1890's
NCR(N)					
Severnyi	3019	3056	2963	3881	4716
Sev.Zap.	5856	5926	6579	7995	8509
Zapadnyi	17581	19335	23489	23934	30247
Tsent N.ChZem	28325	26343	23864	28160	27336
All NCR(N)	54781	54660	56895	63970	70808
in mln tons	6.902	6.887	7.169	8.060	8.922
SPR(N)					
Levoberezh	14388	15471	19680	21018	26364
Pravoberezh	14992	16866	21001	23903	30195
Yuzh.Step	11502	12779	17645	33274	55257
All SPR(N)	40882	45116	58326	78195	111816
in mln tons	5.151	5.685	7.349	9.853	14.089
CPR(N)					
Tsent ChZem	50857	56522	64143	64634	61349
Yug.Vost	8271	7608	8382	13029	14923
N.Volzhskii	16178	16887	17016	19649	21617
Sr.Volzhskii	11680	12481	12748	14661	15776
All CPR(N)	86986	93498	102289	111973	113665
in mln tons	10.860	11.781	12.888	14.109	14.322
Ts.Ch.Zem	6.408	7.121	8.082	8.144	7.730
Volga	4.452	4.659	4.806	5.965	6.592
EPR(N)					
Priural	17355	16586	19926	23133	30242
Sibir	10229	10844	13299	15496	21255
All EPR(N&P)	27584	27430	33225	38629	51497
in mln tons	3.476	3.456	4.186	4.867	6.489
USSR (N&P)					
in mln tons	26.389	27.809	31.592	36.889	43.822
Baltic Regs	4752	5591	6024	6985	8977
in mln tons	0.599	0.704	0.759	0.880	1.131

Sources; A.S.Nifontov, Zernovove Proizvodstvo....M.1974, pp.187
V.I.Pronin, Istoriya SSSR, 1977, No.4, pp. 66.

Regional grain sown area data

Sowings in mln chetverts (Nifontov & Pronin's data)

Region	1850's	1860's	1870's	1880's	1890's
NCR(N)					
Severnyi	881	919	868	1004	1160
Sev.-Zap.	2158	2146	2038	2252	2248
	6960	6532	6873	6563	7406
a) N.&NW.	9999	9597	9779	9819	10814
b) Ts.N.Ch.Zem.	10654	9331	8427	8902	7723
All NCR(N)	20653	18928	18206	18721	18537
SCR					
SPR(N)					
Levob.Ukr	4379	4648	5411	4835	4844
Pravob.Ukr.	3951	4426	5079	4622	5150
Yuzhm.Step.	2810	3539	4886	6158	8694
All SPR(N)	11140	12613	15376	15615	18688
CPR(N)					
a) Ts.Ch.Zem	15875	15145	15493	14811	13037
Yug.Vost.V	2198	2083	2307	3403	3464
N.Volzhskii	4458	4577	4512	4181	4019
Sr.Volzhskii	3458	3714	3583	3844	3765
b) Volga	10114	10374	10402	11428	11248
All CPR(N)	25989	25519	25895	26239	24285
EPR(N&P)					
a) Priural	5248	5704	6280	7128	7347
b) Sibir	2611	3029	3281	3742	4541
AllEPR(N&P)	7859	8733	9561	10870	11888
All USSR(N&P)	65641	65793	69038	71445	73398
(Baltic)	(1046)	(1108)	(1172)	(1309)	(1610)

Grain yields in 'sam' in the 54 gubernii of European Russia calculated from Nifontov's and Pronin's production and sowings data.

	1850's	1860's	1870's	1880's	1890's
NCR(N)	2.65	2.89	3.13	3.42	3.82
SPR(N)	3.67	3.58	3.79	5.01	5.98
CPR(N)	3.35	3.66	3.95	4.27	4.68
EPR(N&P)	3.51	3.14	3.48	3.55	4.33
USSR(N&P)	3.20	3.35	3.63	4.10	4.74

iii) 1883-1915 TsSK data and 1916,1917 Census data

a) Sources of data

1883-1915, European Russian gubernii from V.M.Obukhov, Dvizheniye urozhaev zernovyikh kultur v Evrop.Rossii v period 1883-1915 gg. Appendix 1, in V.G.Groman (ed.) Vliyaniye neurozhaev na narodnoye khozyaistvo Rossii, chast 1, M.1927, pp.56-108.

1896-1915, Non-European gubernii from various issues of Sbornik Statistiko-Ekonomicheskikh Svedenii po Selskomu Khozyaistvu Rossii i Inostrannyikh gosudarstv., SPb.1904-1916, and from various issues of Statisticheskii Ezhegodnik Rossii, SPb.1904-15.

1916 and 1917, from N.D.Kondratiev (ed.) N.P.Oganovsky (compiler) Selskoye Khozyaistvo Rossii v XX veke, M.1923, pp. 78-91,160-173.

b) Groupings of gubernii

The gubernii were grouped in such a way as to be roughly comparable with the mid 1920's major economic regions, viz:

1/NCR	a) North and North West Region	Arkhangel G.,
		Vologda G.,
		Olonets G.,
		Petersburg G.,
		Novgorod G.,
		Pskov G.,
		Smolensk G.,
		Tver G.,

1/NCR (cnt'd)		
	b)Cent.Ind.Region	Yaroslavl G., Moscow G., Vladimir G., Kostroma G., Kaluga G., N.Gorodskaya G., Tula G., Ryazan G.,
	c) Belorussia	Vitebsk G., Minsk G., Mogilevsk G.,
2/SCR	a) ZSFSR	Baku G., Batumi G., Elisavetpol G., Kutaisi G., Sukhumi G., Tiflis G., Zakatalskii Ok., Erivan G.
	b)Central Asia	Zakaspiiskaya G., Ferganskaya G., Samarkandskaya G.,
3/SPR	a)Ukraine	Poltava G., Kharkov G., Chernigov G., Kiev G., Volyinskaya G., Podolskaya G., Kherson G., Ekaterinoslav.G., Tavricheskaya G.,
	b)N.Caucasus	Military Don Ob., Kuban Ob., Stavropol.G., Tersk. G., Chernomorskaya G.,
4/CPR	a)Cent.Chernozem	Voronezh.G., Kursk.G., Orlov.G., Tambov.G.,
	b)Volga Region	Astrakhan.G., Saratov.G., Samara.G., Penza.G., Simbirsk.G., Kazan.G., Vyatka.G., Ufa.G.,

5/EPR

a)Urals region	Perm.G., Orenburg.G.,
b)Siberia & Far Eastern Regions	Tobolsk.G., Tomsk.G., Amur.G., Enisii.G., Irkutsk.G., Yakutsk.G., Zabaikal.G., Kamchatka.G., Primorskaya G., Sakhalin.G.,
c)Steppe Krai	Akmolinsk.G., Semipalatinsk.G.; Semirechinsk.G., Uralsk.G., Turgai.G., Syr Daryinsk.G.,

c)Units

The primary data are presented in non-metric units (dessyatin and puds) but have been converted into metric units (hectare, and tons) in all major sub-totals . The standard conversion coefficients have been used ; 1 dessyatina = 1.093 hectares and 1pud = 0.01638 tons.

d)Adjustments to regional data

Adjustments have been made to the regional data in order to make allowance for parts of the pre-revolutionary provinces which were not part of the post revolutionary territory of the pre 1939 area of the USSR.

All grains production in mln pds and mln tons

1. NCR
a) N & NW

	Arkhangel G.	Vologda G.	Olonetsk G.	Petersburg G.	Novgorod G.	Pskov G.	Smolensk G.	Tver G.	All N & NW in mln pds	All N & NW in mln tons
1883	2.29	20.24	4.87	11.80	27.38	21.83	29.61	39.05	157.07	2.57
1884	1.83	20.25	4.76	10.15	22.51	17.58	24.39	23.82	125.29	2.05
1885	2.33	22.50	4.66	10.61	23.20	15.63	18.52	24.07	121.52	1.99
1886	2.39	21.16	5.30	13.01	27.38	20.69	33.72	37.19	160.84	2.63
1887	2.93	23.02	6.19	14.21	30.97	22.81	35.79	41.77	177.69	2.91
1888	2.17	20.12	4.72	13.33	27.35	21.70	31.24	32.44	153.07	2.51
1889	2.73	19.48	5.32	11.83	25.01	21.10	34.58	36.56	156.61	2.57
1890	2.96	26.18	6.25	14.01	28.77	21.90	36.37	37.27	113.71	2.85
1891	1.35	24.96	4.62	12.69	28.76	22.76	32.63	36.43	164.2	2.69
1892	1.90	27.87	4.59	12.57	26.20	22.05	40.44	38.10	137.32	2.75
1893	2.01	26.49	5.07	11.54	22.46	24.22	35.93	35.40	163.12	2.67
1894	2.34	26.01	5.56	10.02	22.63	20.29	38.80	33.49	159.14	2.61
1895	2.48	25.68	7.12	10.01	24.51	15.89	31.04	36.21	152.94	2.51
1896	2.36	23.02	5.89	12.03	25.10	24.23	35.77	37.33	165.73	2.71
1897	2.70	28.29	5.74	13.82	27.03	24.85	34.76	37.35	174.54	2.86
1898	2.92	24.67	6.13	13.65	28.44	27.39	43.84	41.07	188.11	3.08
1899	1.93	27.84	3.68	11.01	21.54	18.83	42.29	35.96	163.08	2.67
1900	2.76	25.07	6.13	14.24	29.01	26.66	40.19	36.52	180.52	2.96
1901	3.12	29.30	6.41	12.64	28.92	24.11	37.77	36.11	180.38	2.95
1902	2.81	27.83	5.23	10.72	24.17	18.89	40.19	30.18	160.02	2.62
1903	2.96	27.04	5.55	11.69	23.38	19.75	37.16	32.24	159.77	2.62
1904	2.00	28.40	3.94	12.47	23.13	23.66	40.82	35.23	169.65	2.78
1905	2.71	27.80	5.63	9.77	23.74	20.14	41.67	33.23	164.69	2.70
1906	2.65	25.25	5.91	12.31	23.86	22.19	35.31	29.91	157.39	2.58
1907	2.36	24.30	5.63	11.34	25.67	20.96	30.09	28.91	149.26	2.45
1908	2.65	27.48	5.59	13.24	25.13	27.23	35.71	27.35	162.38	2.66
1909	2.89	24.38	5.81	11.83	21.49	22.86	30.92	25.08	145.26	2.38
1910	2.92	32.11	6.13	11.34	24.76	25.50	30.58	31.36	165.70	2.71
1911	3.21	30.11	6.48	13.05	26.53	25.24	44.16	33.97	183.05	3.00
1912	2.89	32.92	5.74	12.31	27.63	27.99	44.68	36.36	190.52	3.12
1913	2.81	32.33	6.66	12.92	27.39	29.91	47.56	36.60	196.18	3.21
1914	2.10	21.44	4.30	11.64	19.99	23.57	33.64	26.37	143.05	2.34
1915	2.95	33.18	6.72	14.66	29.52	36.68	43.78	38.97	200.46	3.38
1916	3.79	32.46	6.85	13.33	27.96	23.61	37.57	29.72	175.29	2.87
1917										

All grains production in mln. pds and mln. tons

1. NCR
b) Cent.Ind R.

	Yaroslavl G.	Mosovskaya G.	Vladimirskaya G.	Kostromskaya G.	Kalyuzhskaya G.	Nizhne Novgorodskaya G.	Tulskaya G.	Ryazanskaya G.	1 b) All Cent. Ind. R. in mln pds	1 b) All Cent. Ind. R. in mln tons
1883	26.76	24.12	30.14	30.62	25.28	36.45	57.98	62.38	293.73	4.81
1884	18.46	16.82	27.01	26.74	14.71	49.41	42.45	45.23	245.83	4.03
1885	21.54	14.55	26.07	29.80	14.55	41.76	40.74	43.87	232.88	3.81
1886	26.05	23.68	32.31	32.06	27.22	51.14	65.12	70.68	328.26	5.38
1887	27.00	24.54	34.56	36.82	26.71	45.15	54.81	56.76	306.35	5.02
1888	21.53	21.86	30.75	30.31	25.05	43.53	63.66	65.53	302.25	4.95
1889	20.77	23.93	30.41	32.14	29.06	39.48	57.89	61.90	295.58	4.84
1890	26.53	21.47	26.79	30.76	25.02	23.62	56.86	51.21	265.26	4.34
1891	25.88	19.20	30.52	36.81	21.76	28.25	38.02	27.40	227.84	3.73
1892	25.82	17.22	28.09	33.62	18.59	30.15	26.58	34.03	214.10	3.51
1893	24.28	20.17	25.22	33.08	22.65	32.79	52.80	56.58	267.57	4.38
1894	24.25	20.71	31.18	34.85	25.42	36.03	65.64	63.91	301.99	4.95
1895	20.64	16.13	23.42	27.74	19.95	41.86	57.86	61.66	269.26	4.41
1896	25.76	18.45	28.95	36.91	17.60	42.91	45.22	57.74	273.54	4.48
1897	26.47	13.36	27.98	38.10	13.63	30.11	28.69	30.55	208.89	3.42
1898	27.24	18.45	27.66	33.23	24.51	29.46	36.71	39.03	236.29	3.87
1899	25.65	20.39	31.62	35.64	28.32	50.43	75.36	75.21	342.62	5.61
1900	20.32	20.71	35.00	31.14	24.08	49.74	66.28	69.82	317.09	5.19
1901	21.92	16.81	25.42	33.14	19.97	34.00	47.01	37.50	235.77	3.86
1902	22.85	19.54	32.40	35.05	24.77	44.77	63.14	74.49	317.01	5.19
1903	21.25	15.35	27.59	28.99	19.94	30.64	59.83	56.92	260.51	4.27
1904	26.69	22.46	37.67	38.84	30.19	59.04	66.16	69.49	350.54	5.74
1905	23.15	20.42	33.70	33.56	27.10	39.68	34.38	32.91	244.90	4.01
1906	17.12	15.98	21.10	21.46	17.85	20.68	35.30	39.31	188.80	3.09
1907	19.92	14.18	29.45	27.45	17.78	47.42	56.19	62.07	274.46	4.50
1908	20.42	14.20	30.24	33.86	15.69	95.34	56.78	56.37	322.9	5.29
1909	16.97	12.23	25.81	31.78	16.10	47.31	54.62	62.26	267.08	4.37
1910	18.87	16.41	28.62	34.07	20.06	38.01	56.63	68.65	281.32	4.61
1911	22.43	20.23	34.63	34.61	26.96	30.08	64.37	54.07	287.38	4.71
1912	21.99	19.40	30.93	37.69	24.58	58.18	55.11	64.92	312.80	5.12
1913	20.37	19.01	32.84	36.93	24.89	49.06	63.39	60.87	307.36	5.03
1914	15.11	13.02	26.15	27.97	16.27	95.11	38.96	50.79	283.38	4.64
1915	21.21	18.24	35.34	36.57	23.96	50.33	54.94	67.65	308.29	5.05
1916	14.47	13.49	26.93	27.94	27.52	44.40	69.31	65.60	289.66	4.74
1917										

All grain production in mln tons and mln pds

1. NCR c) Belorussia							All NCR			
	Vitebskaya G.	Minskaya G.	Mogelevskaya G.	All Belorussia in mln pds	All Belorussia in mln tons	All Belorussia in mln tons (adjusted)	1 a) N & NW	1 b) Cent. Ind.	1 c) BSSR	1. NCR All Production
1883	19.50	25.36	21.45	66.31	1.09	0.94	2.57	4.81	0.94	8.32
1884	19.15	31.66	22.54	73.35	1.20	1.03	2.05	4.03	1.03	7.11
1885	17.76	24.85	17.16	59.77	0.98	0.84	1.99	3.81	0.84	6.74
1886	19.27	29.59	23.21	72.07	1.18	1.02	2.63	5.38	1.02	9.03
1887	21.17	38.00	24.36	78.53	1.29	1.11	2.91	5.02	1.11	9.04
1888	21.05	32.70	23.30	79.05	1.29	1.11	2.51	4.95	1.11	8.57
1889	21.10	28.30	23.34	72.74	1.19	1.02	2.57	4.48	1.02	8.43
1890	19.89	29.47	25.95	75.31	1.23	1.06	2.85	4.34	1.06	8.25
1891	19.77	32.13	23.27	75.17	1.23	1.06	2.69	3.73	1.06	7.48
1892	25.71	42.94	32.11	100.76	1.65	1.42	2.25	3.51	1.42	7.18
1893	25.90	36.65	31.31	93.86	1.54	1.32	2.67	4.38	1.32	8.37
1894	26.52	39.34	34.38	100.24	1.64	1.41	2.61	4.95	1.41	8.97
1895	18.91	33.88	26.74	80.43	1.32	1.13	2.51	4.41	1.13	8.05
1896	25.79	38.82	27.58	92.19	1.51	1.30	2.71	4.48	1.30	8.49
1897	30.08	36.22	28.36	94.66	1.55	1.33	2.86	3.42	1.33	7.61
1898	30.40	47.77	35.95	114.12	1.87	1.61	3.08	3.87	1.61	8.56
1899	24.67	44.89	38.13	107.69	1.76	1.52	2.67	5.61	1.52	9.80
1900	29.92	42.31	34.94	107.17	1.76	1.52	2.96	5.19	1.52	9.67
1901	23.23	41.30	34.49	99.02	1.62	1.39	2.95	3.86	1.39	8.20
1902	23.98	48.41	36.69	109.08	1.79	1.54	2.62	5.19	1.54	9.35
1903	23.02	47.59	35.99	106.6	1.75	1.50	7.62	4.27	1.50	8.39
1904	25.87	52.64	41.39	119.4	1.96	1.69	2.78	5.74	1.69	10.21
1905	23.00	44.36	35.89	103.25	1.69	1.45	2.70	4.01	1.45	8.16
1906	23.85	37.74	29.20	90.79	1.49	1.28	2.58	3.09	1.28	6.95
1907	22.77	37.31	28.49	88.57	1.45	1.25	2.45	4.50	1.25	8.20
1908	27.94	41.12	33.22	110.28	1.81	1.55	2.66	5.29	1.55	9.50
1909	27.73	53.99	39.74	121.46	1.99	1.71	2.38	4.37	1.71	8.46
1910	29.38	48.37	38.25	112.0	1.83	1.58	2.71	4.61	1.58	8.90
1911	31.68	55.71	41.79	129.18	2.12	1.82	3.00	4.71	1.82	9.53
1912	30.89	55.22	43.69	129.80	2.13	1.83	3.12	5.12	1.83	10.07
1913	36.20	54.04	44.15	134.39	2.20	1.89	3.21	5.03	1.89	10.13
1914	22.82	57.42	40.01	120.25	1.97	1.69	2.34	4.64	1.69	8.67
1915	39.65	50.61	46.69	136.95	2.24	1.93	3.38	5.05	1.93	10.36
1916	35.51	66.05	52.74	154.43	2.23	2.18	2.87	4.74	2.18	9.79
1917										

All grain production in mln pds and mln tons

2. SCR

a) ZSFSR

	Baku G.	Batumi G.	Elisavetpol G.	Kutaisii G.	Sukhumi G.	Tiflis G.	Zakatalskii Ok.	Erivan G.	Total ZSFSR in mln pds	Total ZSFSR in mln tons
1883										
1884										
1885										
1886										
1887										
1888										
1889										
1890										
1891										
1892										
1893										
1894										
1895										
1896										
1897										
1898										
1899										
1900										
1901										
1902										
1903										
1904										
1905										
1906										
1907										
1908	11.17	11.48	10.36	8.77	6.17	7.75	(0.30)	10.4	66.40	1.09
1909	12.53	11.54	11.84	10.39	8.55	12.01	0.38	15.05	72.29	1.18
1910	11.54	14.21	8.99	11.54	7.93	12.89	0.93	11.89	79.92	1.31
1911	13.64	2.10	7.50	11.34	3.49	12.15	0.58	12.42	63.22	1.04
1912	13.29	3.72	11.93	11.02	4.58	17.99	0.89	18.55	81.97	1.34
1913	8.95	0.45	15.62	11.53	(4.0)	25.43	(0.8)	11.52	78.30	1.28
1914	12.84	(0.5)	14.66	10.04	(4.0)	19.67	(0.8)	19.65	82.16	1.35
1915										
1916										
1917										

Cont'd.

All grain production in mln pds and mln tons (cont'd)

2. SCR

	b) Central Asia					All SCR		
	Zakaspi skaya	Ferganskaya	Samarkandskaya	Total Cent Asia in mln pds	Total Cent Asia in mln tons	2 a) ZSFSR	2 b) Cent Asia	2 All SCR
1883								
1884								
1885								
1886								
1887								
1888								
1889								
1890								
1891								
1892								
1893								
1894								
1895								
1896								
1897								
1898								
1899								
1900								
1901								
1902								
1903								
1904								
1905								
1906								
1907								
1908	5.20	16.06	21.71	42.97	0.70	1.09	0.70	1.79
1909	5.11	17.24	19.56	41.91	0.69	1.18	0.69	1.87
1910	5.03	19.70	20.91	45.64	0.75	1.31	0.75	2.06
1911	5.22	13.73	17.01	35.96	0.59	1.04	0.59	1.63
1912	7.17	17.81	74.97	49.95	0.82	1.34	0.82	2.16
1913	4.80	21.35	23.16	49.51	0.81	1.28	0.81	2.09
1914	6.55	17.21	24.00	47.76	0.78	1.35	0.78	2.13
1915								
1916								
1917								

All grain production in mln pds and mln tons

3. SPR

a) Ukraine

	Poltavskaya G.	Kharkovskaya G.	Chernigovskaya G.	Kievskaya G.	Volynskaya G.	Podolskaya G.	Khersonskaya G.	Ekaterinoslavskaya G.	Tavricheskaya G.	Total Ukraine in mln pds	Total Ukraine in mln tons	Total Ukraine in mln tons adjusted
1883	61.03	46.82	35.21	59.91	37.71	43.54	61.00	37.88	38.96	422.06	6.91	6.74
1884	67.91	67.26	38.55	85.38	55.22	63.23	60.66	59.65	43.28	541.03	8.86	8.64
1885	72.90	34.90	38.51	79.55	50.16	62.52	34.79	19.19	23.57	416.09	6.82	6.65
1886	44.81	35.67	24.27	41.69	47.07	47.39	53.52	46.86	64.29	405.57	6.64	6.47
1887	108.52	88.70	40.39	100.35	53.47	76.67	94.64	71.65	24.34	658.23	10.78	10.51
1888	93.20	74.73	31.89	90.01	50.57	78.77	105.28	79.37	77.80	681.62	11.16	10.88
1889	40.95	38.73	30.98	51.03	38.68	33.08	32.95	23.18	29.03	318.61	5.22	5.09
1890	82.48	54.30	40.40	79.12	47.21	72.05	100.89	43.92	44.74	565.13	9.26	9.03
1891	76.59	50.67	36.89	75.49	55.91	64.35	60.88	59.93	38.57	519.28	8.51	8.30
1892	53.82	57.41	48.35	71.38	63.61	51.74	71.30	101.27	77.92	597.3	9.78	9.54
1893	11.22	90.35	42.14	92.15	61.57	101.38	201.52	143.64	102.34	946.31	15.50	15.11
1894	123.01	76.87	54.43	101.71	67.15	91.04	141.77	107.22	100.82	860.02	14.09	13.74
1895	85.13	81.86	40.98	100.46	51.82	94.39	143.91	78.42	76.76	753.74	12.35	12.04
1896	82.33	61.18	39.96	96.73	74.55	89.85	103.08	85.51	78.55	711.74	11.66	11.37
1897	76.04	55.78	46.04	69.81	61.50	63.64	127.49	86.03	73.88	660.21	10.81	10.54
1888	112.73	86.43	56.22	112.76	77.99	102.26	152.42	126.18	103.27	930.26	15.24	14.86

All grain production in mln pds and mln tons (cont'd)

3. SPR a) Ukraine

	Poltavskaya G.	Kharkovskaya G.	Chernigovskaya G.	Kievskaya G.	Volyinskaya G.	Podolskaya G.	Khersonskaya G.	Ekaterinoslavskaya G.	Tavricheskaya G.	Total Ukraine in mln pds	Total Ukraine in mln tons	Total Ukraine in mln tons adjusted.
1899	102.24	67.32	60.01	114.87	89.09	102.33	60.93	82.89	63.51	743.19	12.17	11.87
1900	89.66	82.95	48.22	71.02	64.82	60.90	66.14	87.15	66.35	637.21	10.44	10.18
1901	97.23	58.12	51.95	124.51	83.03	122.00	184.88	63.66	82.14	867.52	14.21	13.86
1902	156.38	123.08	62.20	152.32	96.45	131.48	159.79	164.91	106.18	1152.79	18.88	18.41
1903	112.40	81.05	53.15	115.06	86.75	121.23	196.07	132.54	135.31	1033.56	16.93	16.51
1904	124.25	109.35	61.13	130.94	95.46	118.39	116.03	183.05	112.12	1050.72	17.21	16.78
1905	132.80	85.92	53.27	127.32	91.16	117.06	132.2	157.13	112.71	1009.58	16.54	16.12
1906	108.40	70.84	44.14	120.61	79.13	134.58	214.44	128.81	98.80	999.85	16.38	15.97
1907	105.51	78.55	36.81	107.62	71.94	89.88	130.36	188.20	100.57	909.44	14.90	14.52
1908	105.84	104.75	35.24	103.74	93.08	104.19	150.21	149.62	91.70	938.37	15.37	14.99
1909	140.36	127.71	50.00	124.25	101.33	109.36	170.25	190.42	106.73	1120.41	18.35	17.89
1910	128.82	107.94	47.56	138.32	94.64	139.09	199.46	202.36	141.15	1204.34	19.73	19.23
1911	130.64	114.86	61.24	130.66	107.73	126.47	160.30	160.08	112.32	1104.30	18.09	17.64
1912	131.67	128.88	61.44	142.33	102.77	133.07	174.94	175.07	115.16	1165.33	19.09	18.61
1913	168.82	141.83	62.37	151.04	95.22	139.58	247.34	176.56	151.88	1332.64	21.83	21.28
1914	136.55	107.0	61.74	141.93	107.73	129.30	153.79	123.78	113.80	1075.62	17.62	17.18
1915	133.67	127.01	59.72	140.13	(107.73)	(129.3)	177.76	162.65	145.10	1183.07	19.38	18.89
1916	160.92	138.63	65.43	141.47	117.97*	105.44	204.97	159.59	164.62	1259.04	20.62	20.10
1917												

All grain production in mln pds and mln tons

3. SPR

	b) North Caucasus								3. All SPR		
	Voronko Don Oblast	Kuban Ob.	Stavropol G.	Tersk G.	Chernomorskaya G.	Dagestan	All N. Caucasus in mln pds	All N. Caucasus in mln tons	3. a) Ukraine	3. b) N. Caucasus	3. SPR all Production
1883	99.41								6.74	(3.6)	(10.34)
1884	105.44								8.64	(3.9)	(12.51)
1885	48.00								6.65	(1.8)	(8.41)
1886	41.52								6.47	(1.5)	(7.97)
1887	134.72								10.51	(4.9)	(15.41)
1888	133.54								10.88	(4.9)	(15.78)
1889	67.56								5.09	(2.5)	(7.59)
1890	123.94								9.03	(4.5)	(13.5)
1891	80.79								8.30	(3.0)	(11.30)
1892	95.64								9.54	(3.5)	(13.04)
1893	177.00								15.11	(6.5)	(21.61)
1894	138.61								13.74	(5.1)	(18.84)
1895	88.02								12.04	(3.2)	(15.24)
1896	135.73	←		147.56		→	283.29	4.63	11.37	4.63	16.00
1897	55.39	←		94.64		→	150.03	2.45	10.54	2.45	12.99
1898	125.38	←		170.00		→	295.38	4.83	14.86	4.83	19.69
1899	115.00	←		168.51		→	283.51	4.63	11.87	4.63	16.50
1900	125.41	←		187.19		→	312.60	5.11	10.18	5.11	15.29
1901	83.29	←		191.41		→	274.70	4.49	13.86	4.49	18.35
1902	173.37	←		227.36		→	400.73	6.55	18.41	6.55	24.96
1903	162.78	←		244.36		→	407.14	6.65	16.51	6.65	23.16
1904	178.26	13 .22	56.98	27.43	0.35	–	399.24	6.54	16.78	6.54	23.32
1905	142.88	190.01	60.34	33.51	0.62	–	427.36	7.00	16.12	7.00	23.12
1906	87.10	163.18	65.50	30.97	0.57	–	347.32	5.69	15.97	5.69	21.66
1907	163.66	144.7	71.6	27.2	0.32	–	407.48	6.67	14.52	6.67	21.19
1908	143.73	167.53	48.64	36.15	0.52	–	396.57	6.50	14.99	6.50	21.49
1909	296.30	171.68	87.55	37.10	0.65	–	593.28	9.72	17.89	9.72	27.61
1910	183.00	215.54	80.73	46.02	0.94	–	526.23	8.62	19.23	8.62	27.85
1911	121.64	137.09	65.85	40.77	0.68	–	366.03	6.00	17.64	6.00	23.64
1912	184.41	213.57	103.37	50.32	0.71	–	552.38	9.05	18.61	9.05	27.66
1913	298.96	265.06	143.52	44.20	0.72	4.37	752.46	12.33	21.28	12.33	33.61
1914	195.31	182.99	111.76	72.72	0.54	6.93	570.25	9.34	17.18	9.34	26.52
1915	206.31	←		384.18		→	–	540.49	9.67	18.89	9.67	28.56
1916	185.35								(7.64)	20.10	(7.64)	(27.74)
1917												

Grain production in mln pds and mln tons

4. CPR

a) Central Chernozem

	Voronezh G.	Kursk G.	Orlov G.	Tambov G.	4 a) Cent. Chernozem prod. in mln pds	Cent. Chernozem prod. in mln tons
1883	84.67	83.56	68.59	104.99	341.71	5.60
1884	97.27	79.67	45.94	75.94	288.82	4.73
1885	64.14	64.33	47.83	98.41	274.71	4.50
1886	69.68	66.69	65.54	105.59	307.5	5.04
1887	109.77	102.05	72.47	112.99	397.28	6.51
1888	112.97	82.43	64.71	119.60	379.71	6.22
1889	52.94	49.69	54.21	67.89	443.46	7.26
1890	119.0	83.16	67.77	108.41	378.34	6.20
1891	21.14	48.42	44.54	46.68	160.78	2.63
1892	42.32	59.50	41.37	72.28	215.47	3.53
1893	107.99	76.22	65.39	107.15	356.75	5.84
1894	104.55	113.59	70.27	123.72	412.13	6.75
1895	100.20	97.37	63.71	124.11	385.39	6.31
1896	83.16	69.41	45.33	111.73	309.63	5.07
1897	41.41	47.64	36.67	67.49	193.21	3.16
1898	91.20	90.11	50.30	100.42	332.03	5.44
1899	101.48	95.81	79.79	142.80	419.88	6.88
1900	100.32	96.97	69.71	129.46	396.46	6.49
1901	71.09	87.18	55.44	80.33	294.04	4.82
1902	142.64	128.95	72.66	160.18	504.43	8.26
1903	122.06	82.33	51.92	126.22	381.53	6.27
1904	115.37	100.40	75.35	160.69	451.81	7.40
1905	53.49	75.12	53.37	81.39	263.37	4.31
1906	59.40	87.25	53.86	67.23	267.74	4.39
1907	89.30	96.61	62.37	143.97	392.25	6.43
1908	74.08	63.68	45.02	100.75	283.53	4.64
1909	141.54	107.36	73.77	151.16	473.83	7.76
1910	109.28	106.94	72.99	135.84	425.05	6.96
1911	89.00	96.72	70.43	99.02	355.17	5.82
1912	147.91	115.58	63.37	159.84	486.7	7.97
1913	133.10	110.91	70.01	114.65	428.67	7.02
1914	105.58	107.73	55.37	114.84	383.52	6.28
1915	134.96	104.33	65.08	140.39	444.76	7.29
1916	139.61	132.76	86.14	127.89	486.40	7.97
1917						

Grain Production in mln pds and mln tons

4. CPR

b) Volga											4. CPR		
	Astrakhan G.	Saratov G.	Samara G.	P enza G.	Simbirsk G.	Kazan G.	Vyatka G.	Ufa G.	b) Volga Region Production in mln pds	b) Volga Region Production in mln tons	a) Cent. Chernozem	b) Volga	4. All CPR prodn. in mln tons
1883	5.51	73.49	77.30	43.39	39.23	44.88	82.84	50.39	417.13	6.83	5.60	6.83	12.63
1884	5.60	75.28	123.11	57.56	60.98	70.19	82.55	77.45	552.92	9.06	4.73	9.06	13.79
1885	0.71	65.38	72.03	51.92	57.34	60.36	94.57	55.89	458.47	7.51	4.50	7.51	12.01
1886	1.56	96.28	101.65	71.59	73.06	78.94	98.58	51.76	573.42	9.39	5.04	9.39	14.43
1887	5.86	81.14	59.18	54.53	58.52	57.70	101.64	46.09	464.66	7.61	6.51	7.61	14.12
1888	5.89	74.16	55.46	61.93	51.89	59.81	84.27	41.99	435.4	7.13	6.22	7.13	13.35
1889	3.39	69.45	58.46	53.98	48.38	55.18	87.55	55.12	431.51	7.07	7.26	7.07	14.33
1890	5.93	69.15	61.10	36.39	41.17	44.06	83.24	31.35	372.39	6.10	6.20	6.10	12.30
1891	4.10	39.13	32.29	26.30	23.82	22.49	63.66	32.79	244.58	4.01	2.63	4.01	6.64
1892	4.27	63.66	50.05	33.0	38.60	42.03	96.29	69.55	397.45	6.51	3.53	6.51	10.04
1893	3.09	66.31	72.50	47.90	65.06	78.38	130.65	79.18	541.87	8.88	5.84	8.88	14.72
1894	10.37	106.80	120.92	57.43	55.36	78.47	153.87	62.07	645.29	10.57	6.75	10.57	17.32
1895	5.89	69.53	91.21	57.83	48.45	74.22	141.85	68.04	557.02	9.12	6.31	9.12	15.43
1896	12.05	129.39	144.55	64.33	67.14	75.14	125.19	51.14	668.93	10.96	5.07	10.96	16.03
1897	3.86	71.89	81.14	36.36	43.34	63.09	132.30	55.54	487.52	7.99	3.16	7.99	11.15
1888	10.73	60.36	39.88	41.88	22.74	23.38	74.03	27.52	300.52	4.92	5.44	4.92	10.36
1889	7.94	125.24	117.42	76.09	88.70	116.84	154.94	98.06	785.23	12.86	6.88	12.86	19.74
1900	10.72	118.34	152.03	70.64	65.65	89.73	161.14	87.07	755.32	12.37	6.49	12.37	18.86

Grain Production in mln pds and mln tons (cont'd)

4. CPR

b) Volga											4. CPR		
	Astrakhan G.	Saratov G.	Samara G.	Penza G.	Simbirsk G.	Kazan G.	Vyatka G.	Ufa G.	b) Volga Region Production in mln pds	b) Volga Region Production in mln tons	a) Cent. Chernozem	b) Volga	4) All CPR prodn. in mln tons
1901	4.59	63.55	61.03	41.30	34.80	51.22	82.74	44.74	383.97	6.29	4.82	6.29	11.11
1902	7.13	99.38	124.59	65.07	64.54	70.61	109.03	63.47	603.82	9.89	8.26	9.89	18.15
1903	8.28	104.62	123.50	56.44	60.92	79.79	96.87	74.55	604.97	9.91	6.27	9.91	16.18
1904	11.91	147.75	201.71	92.88	98.91	118.93	184.60	143.55	1000.21	16.38	7.40	16.38	23.78
1905	8.73	56.22	98.91	26.08	42.34	70.67	133.22	103.63	539.8	8.84	4.31	8.84	13.15
1906	4.33	44.11	32.00	21.36	16.17	20.28	83.65	32.81	254.71	4.17	4.39	4.17	8.56
1907	12.36	39.32	101.15	67.03	66.38	73.84	92.25	81.41	533.74	8.74	6.43	8.74	15.17
1908	10.18	77.69	112.13	62.58	56.15	87.04	143.82	109.63	659.22	10.80	4.64	10.80	15.44
1909	8.67	158.90	227.94	82.69	92.02	118.69	132.31	131.83	953.05	15.61	7.76	15.61	23.37
1910	6.17	120.81	178.90	74.53	63.44	71.06	127.71	124.51	767.13	12.57	6.96	12.57	19.53
1911	3.70	46.63	42.76	41.06	25.64	37.01	85.25	29.62	311.67	5.11	5.82	5.11	10.93
1912	6.99	103.37	172.34	92.27	71.57	104.18	146.69	119.97	817.38	13.39	7.97	13.39	21.36
1913	24.97	157.72	244.23	70.57	80.81	102.68	149.30	117.05	947.33	15.52	7.02	15.52	22.54
1914	14.47	90.97	163.27	37.37	48.70	56.68	120.41	84.88	616.75	10.10	6.28	10.10	16.38
1915	22.03	126.99	299.04	71.14	76.82	95.76	144.56	135.05	971.39	15.91	7.29	15.91	23.20
1916	12.80	85.24	139.05	51.39	62.18	87.73	145.79	131.40	715.58	11.72	7.97	11.72	19.69
1917													

Grain Production in mln pds and mln tons;

5. EPR

a) Urals

	Perm G.	Orenburg G.	All Urals in mln pds	All Urals in mln tons
1883	58.29	51.86	110.15	1.80
1884	85.53	83.78	169.31	2.77
1885	90.38	58.65	149.03	2.44
1886	83.31	43.83	127.34	2.09
1887	83.63	37.64	121.27	1.99
1888	61.10	29.23	90.33	1.48
1889	71.59	62.07	133.66	2.19
1890	58.07	36.68	94.75	1.55
1891	54.46	22.20	76.66	1.26
1892	67.28	66.47	133.75	2.19
1893	98.90	49.65	148.55	2.43
1894	108.16	28.25	136.41	2.23
1895	98.87	42.64	141.51	2.32
1896	105.53	51.04	156.57	2.56
1897	95.51	30.54	126.05	2.06
1898	71.46	41.51	112.97	1.85
1899	102.96	52.28	155.24	2.54
1900	113.06	69.45	187.51	2.99
1901	58.99	31.82	90.81	1.49
1902	91.67	46.19	137.86	2.26
1903	109.66	61.28	170.94	2.80
1904	141.13	83.81	224.94	3.68
1905	141.16	112.99	255.15	4.18
1906	109.81	39.25	149.06	2.44
1907	95.97	67.93	163.90	2.68
1908	126.74	77.51	204.25	3.35
1909	123.17	88.34	211.51	3.46
1910	148.13	75.84	223.97	3.67
1911	62.47	7.37	69.84	1.14
1912	122.01	58.54	180.55	2.96
1913	149.84	102.89	252.73	4.14
1914	135.55	87.24	222.79	3.65
1915	149.66	124.04	273.70	4.48
1916	118.18			
1917				

Cont'd...

Grain Production in mln pds and mln tons (cont'd)

5. EPR

b) Siberia

	Tobolsk G.	Tomsk G.	Amur	Enisei	Irkutsk	Yakutsk	Zabaikal	Kamchatka	Primorskaya	Sakhalin	All Siberia in mln pds	All Siberia in mln tons
1883												
1884												
1885												
1886												
1887												
1888												
1889												
1890												
1891												
1892												
1893												
1894												
1895												
1896	149.2		nd	•	•	nd	nd		nd	nd		(2.89)
1897	159.0		nd	•	•	nd	nd		nd	nd		(3.07)
1898	146.4		nd	•	•	nd	nd		nd	nd		(2.83)
1899	183.9		nd	•	•	nd	nd		nd	nd		(3.56)
1900	90.7		nd	•	•	nd	nd		nd	nd		(1.75)
1901	24.16	30.11	nd	8.36	12.41	nd	nd		nd	nd		(1.45)
1902	43.06	34.36	nd	16.81	67.68	nd	nd		nd	nd		(3.52)
1903	71.67	86.30	nd	21.70	13.30	nd	nd		nd	nd		(3.73)
1904	59.55	54.08	nd	21.37	18.68	nd	nd		nd	nd		(2.97)
1905	69.19	80.12	nd	23.53	15.55	nd	nd		nd	nd		(3.64)
1906	47.60	103.57	nd	23.92	18.01	nd	nd		nd	nd		(3.73)
1907	48.07	99.33		24.58	13.25	nd	nd		nd	nd		(3.58)
1908	70.64	112.03	15.53	23.87	13.74	0.04	14.59	-	9.14	0.27	259.85	4.26
1909	46.23	94.66	14.63	12.14	15.06	-	13.52	-	11.03	0.10	207.37	3.40
1910	49.06	113.12	14.16	14.87	15.35	0.31	15.38	-	11.65	0.08	233.98	3.83
1911	8.31	113.89	16.90	17.17	16.35	0.94	11.75	-	10.98	-	196.29	3.22
1912	57.07	129.08	17.73	73.81	13.81	0.74	11.03	-	14.52	-	267.77	4.39
1913	60.39	146.08	19.14	23.63	16.1	0.04	11.08	-	12.83	0.04	289.33	4.74
1914	100.80	212.85	24.28	33.66	19.38	-	18.06		12.47	-	421.50	6.90
1915	186.05			•	•						(213.86)	(3.50)
1916												
1917												

Grain Production in mln pds and mln tons

	5. EPR c) Kazakhstan								5. All EPR			
	Akmolinsk G.	Semipalatinsk G.	Semirechensk G.	Uralsk G.	Turgai G.	Sylr Daryisk	All Kazakhstan in mln pds	All Kazakhstan in mln tons	a) Urals	b) Siberia	c) Kazakhstan	5. All EPR Production
1883									1.80			
1884									2.77			
1885									2.44			
1886									2.09			
1887									1.99			
1888									1.48			
1889									2.19			
1890									1.55			
1891									1.26			
1892									2.19			
1893									2.43			
1894									2.23			
1895									2.32			
1896	•	53.2	•	nd	•	nd		(1.33)	2.56	(2.89)	(1.35)	(6.78)
1897	•	56.7	•	nd	•	nd		(1.42)	2.06	(3.07)	(1.42)	(6.55)
1898	•	52.2	•	nd	•	nd		(1.31)	1.85	(2.83)	(1.31)	(5.99)
1899	•	65.6	•	nd	•	nd		(1.64)	2.54	(3.56)	(1.64)	(7.74)
1900	•	32.4	•	nd	•	nd		(0.81)	2.99	(1.75)	(0.81)	(5.55)
1901	4.39	1.36	19.75	nd	7.05	nd		(0.81)	1.49	(1.45)	(0.81)	(3.75)
1902	7.15	3.47	33.89	nd	7.59	nd		(1.30)	2.26	(3.52)	(1.30)	(7.08)
1903	20.06	6.15	23.75	nd	9.82	nd		(1.50)	2.80	(3.73)	(1.50)	(8.03)
1904	5.81	2.40	23.18	nd	8.83	nd		(1.01)	3.68	(2.97)	(1.01)	(7.66)
1905	14.39	1.73	28.27	nd	26.97	nd		(1.79)	4.18	(3.64)	(1.79)	(9.61)
1906	-	5.60	26.88	nd	6.08	nd		(1.27)	2.44	(3.73)	(1.27)	(7.44)
1907	12.64	5.47	34.31	nd	20.57	nd		(1.83)	2.68	(3.58)	(1.83)	(8.18)
1908	8.53	8.46	32.29	13.87	17.86	21.71	102.72	1.68	3.35	4.26	1.68	9.29
1909	9.67	5.75	32.59	19.21	11.97	19.56	98.75	1.62	3.46	3.40	1.62	8.48
1910	10.77	5.78	30.44	6.34	15.8	20.91	90.04	1.47	3.67	3.83	1.47	8.97
1911	8.77	8.25	40.30	7.29	2.89	17.01	79.51	1.30	1.14	3.22	1.30	5.66
1912	31.62	11.58	38.19	21.60	15.8	24.97	143.48	2.35	2.96	4.39	2.35	9.70
1913	27.55	12.53	36.28	20.79	20.37	29.66	147.18	2.41	4.14	4.74	2.41	11.29
1914	77.69	17.83	38.28	20.16	27.50	35.64	217.10	3.56	3.65	6.90	3.56	14.11
1915	•		155.36	•	•	nd	(185.87)	(3.05)	4.48	(3.50)	(3.05)	(11.03)
1916												
1917												

ALL GRAINS SOWN AREA IN MLNS OF DESSYATIN AND MILLIONS OF HECTARE

1/NCR
a) N and NW

Year	Arkhangel G.	Vologda G	Olonets G.	Peterburg G	Novgorod G.	Pskov G.	Smolensk G.	Tver G.	All 1a) N and NW in mln des.	All 1a) N and NW in mln hectare
1883	0.056	0.493	0.124	0.273	0.67	0.51	0.75	0.82	3.70	4.04
1884	0.057	0.500	0.131	0.280	0.68	0.52	0.74	0.82	3.73	4.08
1885	0.057	0.499	0.130	0.291	0.68	0.51	0.75	0.82	3.74	4.09
1886	0.057	0.498	0.131	0.275	0.68	0.51	0.75	0.82	3.73	4.08
1887	0.057	0.499	0.131	0.274	0.68	0.51	0.75	0.82	3.72	4.08
1888	0.057	0.500	0.130	0.275	0.69	0.51	0.75	0.82	3.75	4.10
1889	0.057	0.499	0.130	0.275	0.68	0.52	0.75	0.82	3.74	4.09
1890	0.059	0.538	0.126	0.26	0.65	0.49	0.78	0.80	3.70	4.04
1891	0.059	0.539	0.125	0.26	0.65	0.49	0.78	0.79	3.69	4.03
1892	0.054	0.564	0.124	0.24	0.57	0.56	0.80	0.66	3.57	3.90
1893	0.053	0.557	0.121	0.25	0.55	0.55	0.72	0.78	3.58	3.91
1894	0.056	0.541	0.118	0.25	0.56	0.53	0.73	0.73	3.52	3.85
1895	0.058	0.555	0.136	0.26	0.58	0.51	0.75	0.76	3.56	3.89
1896	0.055	0.564	0.124	0.25	0.60	0.55	0.79	0.77	3.70	4.04
1897	0.059	0.576	0.124	0.26	0.60	0.56	0.79	0.76	3.73	4.08
1898	0.060	0.575	0.126	0.26	0.61	0.58	0.81	0.77	3.79	4.14
1899	0.063	0.614	0.124	0.25	0.60	0.55	0.89	0.73	3.82	4.18
1900	0.057	0.608	0.120	0.26	0.60	0.55	0.81	0.72	3.75	4.10
1901	0.055	0.606	0.125	0.25	0.61	0.55	0.79	0.73	3.72	4.07
1902	0.055	0.616	0.128	0.25	0.61	0.56	0.80	0.71	3.73	4.08
1903	0.055	0.622	0.127	0.25	0.60	0.56	0.80	0.71	3.72	4.07
1904	0.055	0.605	0.124	0.26	0.59	0.59	0.76	0.70	3.68	4.02
1905	0.054	0.562	0.12	0.24	0.58	0.56	0.77	0.67	3.45	3.77
1906	0.053	0.552	0.124	0.24	0.57	0.55	0.76	0.69	3.54	3.87
1907	0.056	0.592	0.123	0.23	0.56	0.52	0.73	0.68	3.49	3.81
1908	0.055	0.591	0.121	0.23	0.56	0.52	0.76	0.68	3.52	3.85
1909	0.057	0.569	0.124	0.23	0.54	0.53	0.73	0.68	3.46	3.78
1910	0.057	0.597	0.125	0.23	0.55	0.55	0.73	0.69	3.53	3.86
1911	0.056	0.611	0.128	0.23	0.58	0.55	0.73	0.68	3.57	3.90
1912	0.056	0.627	0.127	0.23	0.56	0.55	0.76	0.67	3.57	3.90
1913	0.056	0.623	0.132	0.23	0.54	0.58	0.81	0.68	3.65	3.99
1914	0.054	0.622	0.132	0.25	0.56	0.58	0.73	0.71	3.64	3.98
1915	0.051	0.618	0.131	0.28	0.54	0.58	0.74	0.67	3.61	3.95
1916	0.060	0.544	0.112	0.21	0.44	0.53	0.69	0.52	3.11	3.40
1917	0.054	0.520	0.110	0.21	0.47	0.52	0.65	0.53	3.06	3.34

ALL GRAINS SOWN AREA IN MLNS OF DESSYATIN AND MILLIONS OF HECTARE

1/NCR
b) Central Industrial Region

YEAR	YAROSLAVL G.	MOSCOW G.	VLADIMIR G.	KOSTROMA G.	KALUGA G.	N.GORODSKAYA G.	TULA G.	RYAZAN G.	All 1b) C.Ind.R. in mln des.	All 1b) C.Ind.R. in mln hectare
1883	0.46	0.50	0.82	0.83	0.67	1.10	1.21	1.27	6.86	7.50
1884	0.46	0.50	0.82	0.84	0.67	1.11	1.22	1.27	6.89	7.53
1885	0.46	0.50	0.83	0.85	0.68	1.11	1.21	1.26	6.90	7.54
1886	0.46	0.51	0.83	0.84	0.67	1.11	1.21	1.27	6.90	7.54
1887	0.46	0.50	0.82	0.88	0.67	1.11	1.20	1.30	6.94	7.59
1888	0.46	0.50	0.82	0.84	0.67	1.11	1.21	1.27	6.88	7.52
1889	0.46	0.50	0.82	0.84	0.67	1.11	1.22	1.27	6.89	7.53
1890	0.46	0.46	0.84	0.86	0.66	0.84	1.21	1.26	6.59	7.20
1891	0.46	0.46	0.84	0.86	0.66	1.11	1.21	1.26	6.86	7.50
1892	0.46	0.41	0.75	0.77	0.56	0.89	1.02	1.18	6.04	6.60
1893	0.43	0.41	0.75	0.78	0.55	0.85	1.02	1.19	5.98	6.54
1894	0.45	0.41	0.68	0.77	0.56	0.86	1.06	1.09	5.88	6.43
1895	0.43	0.41	0.68	0.75	0.58	0.85	1.05	1.10	5.85	6.39
1896	0.45	0.41	0.69	0.79	0.60	0.89	1.07	1.11	6.01	6.57
1897	0.44	0.41	0.70	0.78	0.59	0.89	1.04	1.11	5.96	6.51
1898	0.45	0.39	0.69	0.79	0.57	0.90	1.01	1.09	5.89	6.44
1899	0.43	0.40	0.70	0.77	0.60	0.92	1.08	1.13	6.11	6.68
1900	0.43	0.40	0.71	0.79	0.61	0.95	1.09	1.13	6.11	6.68
1901	0.43	0.40	0.70	0.79	0.60	0.96	1.09	1.13	6.10	6.67
1902	0.42	0.40	0.70	0.77	0.61	0.94	1.09	1.13	6.06	6.62
1903	0.42	0.40	0.69	0.79	0.63	0.96	1.11	1.13	6.13	6.70
1904	0.41	0.39	0.70	0.76	0.62	0.98	1.09	1.15	6.10	6.67
1905	0.39	0.37	0.71	0.77	0.60	0.98	1.14	1.14	6.10	6.67
1906	0.40	0.38	0.71	0.77	0.59	0.98	1.10	1.10	6.05	6.59
1907	0.38	0.36	0.69	0.75	0.57	0.99	1.08	1.10	5.92	6.47
1908	0.39	0.36	0.69	0.74	0.55	0.97	1.09	1.10	5.89	6.44
1909	0.37	0.34	0.69	0.74	0.54	0.98	1.05	1.10	5.81	6.35
1910	0.36	0.34	0.69	0.76	0.53	0.97	1.04	1.16	5.85	6.39
1911	0.38	0.35	0.69	0.76	0.51	0.97	1.06	1.12	5.84	6.38
1912	0.37	0.34	0.67	0.75	0.54	0.97	1.06	1.10	5.80	6.34
1913	0.37	0.34	0.67	0.76	0.54	0.96	1.08	1.15	5.87	6.42
1914	0.38	0.33	0.68	0.76	0.56	0.94	1.02	1.11	5.78	6.32
1915	0.36	0.33	0.67	0.73	0.52	0.93	0.95	1.08	5.57	6.09
1916	0.23	0.23	0.46	0.55	0.46	0.77	1.08	1.04	4.82	5.27
1917	0.22	0.23	0.50	0.55	0.49	0.84	1.12	0.99	4.94	5.40

All Grains Sown Area in mlns of Dessyatin and mlns of Hectare

1. NCR

c) Belorussia

	Vitebsk G.	Minsk G.	Mogilevsk G.	All 1. c) Belorussia in mln des.	All 1.c) Belorussia in mln hectares	1. c) Belorussia in mln hectares corrected	N and NW in mln hectares 1. a)	C. Ind. R. in mln hectares 1. b)	1. c) Belourssia in mln hectares	1. All NCR in mln hectares
1883	0.58	0.98	0.68	2.24	2.45	2.11	4.04	7.50	2.11	13.65
1884	0.58	0.99	0.68	2.25	2.46	2.12	4.08	7.53	2.12	13.73
1885	0.59	0.99	0.68	2.26	2.47	2.12	4.09	7.54	2.12	13.75
1886	0.58	0.99	0.68	2.25	2.46	2.12	4.08	7.54	2.12	13.76
1887	0.59	0.99	0.69	2.26	2.47	2.12	4.08	7.59	2.12	13.79
1888	0.58	0.99	0.67	2.24	2.45	2.11	4.10	7.52	2.11	13.73
1889	0.59	0.99	0.68	2.26	2.47	2.12	4.09	7.53	2.12	13.76
1890	0.58	0.98	0.74	2.30	2.51	2.16	4.04	7.20	2.16	13.40
1891	0.58	0.97	0.74	2.29	2.50	2.15	4.03	7.50	2.15	13.68
1892	0.71	1.07	0.74	2.52	2.75	2.37	3.90	6.60	2.37	12.87
1893	0.70	1.02	0.76	2.48	2.71	2.33	3.91	6.54	2.33	12.78
1894	0.69	1.01	0.76	2.46	2.69	2.31	3.85	6.43	2.31	12.59
1895	0.69	1.02	0.76	2.47	2.70	2.32	3.89	6.39	2.32	12.60
1896	0.74	1.08	0.80	2.62	2.86	2.46	4.04	6.57	2.46	13.07
1897	0.74	1.07	0.80	2.61	2.85	2.45	4.08	6.51	2.45	13.04
1898	0.74	1.08	0.80	2.62	2.86	2.46	4.14	6.44	2.46	13.04
1899	0.75	1.11	0.87	2.75	3.01	2.59	4.18	6.68	2.59	13.45
1900	0.75	1.11	0.87	2.75	3.01	2.59	4.10	6.68	2.59	13.37
1901	0.73	1.11	0.86	2.70	2.95	2.54	4.07	6.67	2.54	13.28
1902	0.75	1.15	0.86	2.76	3.02	2.75	4.08	6.62	2.75	13.45
1903	0.74	1.16	0.88	2.78	3.04	2.61	4.07	6.70	2.61	13.38
1904	0.73	1.17	0.89	2.79	3.05	2.62	4.02	6.67	2.62	13.31
1905	0.73	1.15	0.86	2.74	2.99	2.57	3.77	6.67	2.57	13.01
1906	0.72	1.11	0.83	2.66	2.91	2.50	3.87	6.59	2.50	12.96
1907	0.73	1.08	0.84	2.65	2.90	2.49	3.81	6.47	2.49	12.77
1908	0.72	1.06	0.83	2.61	2.85	2.45	3.85	6.44	2.45	12.74
1909	0.70	1.06	0.85	2.61	2.85	2.45	3.78	6.35	2.45	12.58
1910	0.74	1.10	0.86	2.70	2.95	2.54	3.86	6.39	2.54	12.79
1911	0.74	1.08	0.83	2.65	2.90	2.49	3.90	6.38	2.49	12.77
1912	0.73	1.10	0.85	2.68	2.93	2.52	3.90	6.34	2.52	12.76
1913	0.77	1.12	0.85	2.74	2.99	2.57	3.99	6.42	2.57	12.98
1914	0.76	1.17	0.85	2.78	3.04	2.61	3.98	6.32	2.61	12.91
1915	0.75	1.02	0.85	2.62	2.86	2.46	3.95	6.09	2.46	12.50
1916	0.51	0.95	(0.83)	2.29	2.50	2.15	3.40	5.27	2.15	10.82
1917	0.31	(0.90)	0.82	2.03	2.22	1.9	3.34	5.40	1.9	10.64

All grains sown area in mlns of des. and mlns of hectares.

2. SCR

a) ZSFSR

	Baku	Batumi	Elisavetpol	Kutaisi G.	Sukhumi G.	Tiflis G.	Zakatalskii Ok.	Erivan G.	Total ZSFSR in in mln des.	Total ZSFSR in mln hectare
1883										
1884										
1885										
1886										
1887										
1888										
1889										
1890										
1891										
1892										
1893										
1894										
1895										
1896										
1897										
1898										
1899										
1900										
1901										
1902										
1903										
1904										
1905										
1906										
1907										
1908	0.128	0.184	0.248	0.185	0.126	0.204		0.250	1.531	1.673
1909	0.276	0.032	0.300	0.265	0.189	0.283	0.012	0.274	1.531	1.783
1910	0.329	0.149	0.336	0.246	0.122	0.304	0.036	0.268	1.782	1.948
1911	0.344	0.028	0.269	0.217	0.067	0.266	0.031	0.262	1.484	1.622
1912	0.292	0.043	0.322	0.247	0.061	0.345	0.026	0.292	1.628	1.779
1913	0.244	0.015	0.423	0.320	(0.06)	0.472	-	0.288	1.822	1.991
1914										
1915										
1916										
1917										

cont'd.

All grains sown area in mlns of dessyatin and mlns of hectares (cont'd)

2. SCR

b) Cent. Asia

	Zakaspiiskaya	Ferganskaya	Samarkandskaya	Total Cent. Asia in mln des.	Total Cent. Asia in mln hectares.	ZSFSR	Cent. Asia	All SCR
1883								
1884								
1885								
1886								
1887								
1888								
1889								
1890								
1891								
1892								
1893								
1894								
1895								
1896								
1897								
1898								
1899								
1900								
1901								
1902								
1903								
1904								
1905								
1906								
1907								
1908	0.085	0.295	0.497	0.877	0.959	1.673	0.959	2.632
1909	0.112	0.346	0.514	0.972	1.062	1.783	1.062	2.845
1910	0.083	0.345	0.554	0.982	1.073	1.948	1.073	3.021
1911	0.100	0.306	0.541	0.947	1.035	1.622	1.035	2.657
1912	0.115	0.340	0.530	0.985	1.077	1.779	1.077	2.856
1913	0.099	0.368	0.674	1.141	1.247	1.991	1.247	3.238
1914								
1915								
1916								
1917								

All grains sown area in mln dessyatin and mln hectares

3. SPR

a). Ukraine

	Poltava G.	Kharkov G.	Chernigov G.	Kiev G.	Volyinsk G.	Podolsk G.	Kherson	Ekaterinoslav	Tavrichecheskaya	Total Ukraine in mln des.	Total Ukraine in mln hect.	Total Ukraine in mln hectares adjusted.
1883	1.82	1.70	1.30	1.50	1.38	1.40	2.25	1.76	1.41	14.52	15.87	15.47
1884	1.82	1.73	1.31	1.52	1.36	1.39	2.35	1.76	1.43	14.67	16.03	15.63
1885	1.83	1.72	1.31	1.54	1.38	1.42	2.36	1.76	1.45	14.77	16.14	15.74
1886	1.82	1.73	1.30	1.51	1.38	1.41	2.35	1.76	1.45	14.71	16.08	15.68
1887	1.81	1.74	1.30	1.53	1.36	1.41	2.36	1.76	1.44	14.69	16.06	15.66
1888	1.83	1.73	1.30	1.53	1.38	1.41	2.36	1.64	1.44	14.60	15.96	15.56
1889	1.83	1.71	1.31	1.53	1.38	1.40	2.28	1.64	1.44	14.52	15.87	15.47
1890	1.91	1.89	1.36	1.60	1.42	1.51	2.73	1.98	1.28	15.68	17.14	16.71
1891	1.89	1.91	1.37	1.60	1.46	1.50	2.82	1.98	1.65	16.18	17.68	17.24
1892	1.85	2.01	1.48	1.69	1.63	1.59	3.03	2.26	2.03	17.57	19.20	18.72
1893	1.90	1.72	1.28	1.50	1.50	1.50	2.89	2.39	1.95	16.63	18.18	17.72
1894	1.90	1.71	1.35	1.57	1.43	1.62	3.27	2.40	2.11	17.36	18.97	18.50
1895	1.48	1.66	1.25	1.50	1.43	1.60	2.95	2.24	2.11	16.22	17.73	17.29
1896	1.74	1.70	1.38	1.53	1.53	1.60	3.13	2.27	2.16	16.04	17.53	17.09
1897	1.78	1.70	1.39	1.53	1.56	1.52	3.15	2.29	2.20	17.12	18.71	18.24
1898	1.81	1.77	1.41	1.56	1.58	1.57	3.21	2.40	2.36	17.67	19.31	18.83
1899	1.90	1.79	1.44	1.60	1.57	1.60	3.33	2.48	2.41	18.12	19.81	19.31
1900	1.91	1.58	1.42	1.61	1.56	1.63	3.34	2.64	2.50	18.19	19.88	19.38
1901	1.92	1.92	1.46	1.63	1.57	1.63	3.42	2.63	2.53	18.71	20.45	19.94
1902	1.94	1.89	1.40	1.66	1.56	1.64	3.54	2.71	2.60	18.94	20.70	20.18
1903	1.97	1.93	1.40	1.65	1.60	1.63	3.63	2.85	2.61	19.27	21.06	20.54
1904	2.02	1.98	1.39	1.68	1.63	1.68	3.43	3.03	2.62	19.46	21.27	20.74
1905	1.99	1.94	1.88	1.68	1.57	1.71	3.61	2.92	2.57	19.47	21.28	20.75
1906	1.93	1.97	1.25	1.74	1.58	1.72	3.54	2.92	2.56	19.21	21.00	20.47
1907	1.99	1.86	1.21	1.64	1.57	1.74	3.66	2.97	2.46	19.10	20.88	20.35
1908	2.01	2.26	1.18	1.65	1.61	1.71	3.67	2.85	2.43	19.37	21.17	20.64
1909	1.98	1.96	1.19	1.67	1.60	1.70	3.61	2.89	2.41	19.01	20.78	20.26
1910	2.05	2.01	1.23	1.68	1.60	1.76	3.71	3.13	2.45	19.62	21.44	20.91
1911	2.01	2.10	1.24	1.65	1.64	1.75	3.71	3.12	2.63	19.85	21.70	21.15
1912	1.98	2.02	1.29	1.70	1.70	1.78	3.85	3.04	2.58	19.94	21.79	21.25
1913	2.13	2.09	1.32	1.71	1.53	1.78	3.90	3.21	2.61	20.28	22.17	21.61
1914	2.11	2.11	1.31	1.72	1.59	1.79	3.78	3.31	2.58	20.30	22.19	21.63
1915	2.08	2.14	1.28	1.73	nd	nd	3.48	3.25	2.40	(19.16)	(21.04)	20.51
1916	2.04	1.77	1.17	1.66	0.77	1.48	3.47	2.72	2.64	17.72	19.46	18.97
1917	1.90	1.80	1.17	1.44	0.33	-	-	2.62	-	(16.20)	(17.79)	17.34

All grains sown area in mln dessayatin and mln hectares

3. SPR

b) N. Caucasus										All SPR		
	Military Don Oblast	Kuban Oblast	Stavropol	Terek	Chernomorskaya	Dagestan	All N. Caucasus in mln des.	All N. Caucasus in mln hect.		All Ukraine	All N. Caucasus	All SPR
1883	3.05							(6.6)		15.47	(6.6)	(22.1)
1884	3.04							(6.6)		15.63	(6.6)	(22.2)
1885	3.07							(6.7)		15.74	(6.7)	(22.4)
1886	3.07							(6.7)		15.68	(6.7)	(22.4)
1887	3.05							(6.6)		15.66	(6.6)	(22.3)
1888	3.18							(6.9)		15.56	(6.9)	(22.5)
1889	3.19							(6.9)		15.47	(6.9)	(22.4)
1890	3.53							(7.7)		16.71	(7.7)	(24.4)
1891	3.50							(7.6)		17.24	(7.6)	(24.8)
1892	3.55							(7.7)		18.72	(7.7)	(26.4)
1893	3.33							(7.2)		17.72	(7.2)	(24.9)
1894	3.33							(7.2)		18.50	(7.2)	(25.7)
1895	3.15							(6.8)		17.29	(6.8)	(24.1)
1896	3.51	•	3.51		•		7.02	7.67		17.09	7.67	24.76
1897	3.48	•	3.52		•		7.00	7.65		18.24	7.65	25.89
1898	3.39	•	3.34		•		6.73	7.36		18.83	7.36	26.19
1899	3.46	•	3.68		•		7.14	7.80		19.31	7.80	27.11
1900	3.71	•	3.88		•		7.59	8.30		19.38	8.30	27.68
1901	3.92	•	4.00		•		7.92	8.66		19.94	8.66	28.60
1902	3.99	•	4.30		•		8.29	9.06		20.18	9.06	29.24
1903	4.23	•	4.53		•		8.76	9.57		20.54	9.57	30.11
1904	4.49	2.32	1.53	0.59	0.01	-	8.94	9.77		20.74	9.77	30.51
1905	4.84	2.56	1.32	0.58	0.01	-	9.31	10.18		20.75	10.18	30.93
1906	5.03	2.57	1.62	0.60	0.01	-	9.83	10.74		20.47	10.74	31.71
1907	4.63	2.56	1.66	0.55	0.01	-	9.41	10.29		20.35	10.79	30.64
1908	4.75	2.65	1.97	0.48	0.01	-	9.85	10.77		20.64	10.77	31.41
1909	5.09	2.85	1.98	0.73	0.01	-	10.66	11.65		20.26	11.65	31.91
1910	5.38	3.10	2.26	0.86	0.01	-	11.61	12.69		20.91	12.69	33.60
1911	5.42	3.11	2.43	0.90	0.01	-	11.87	12.97		21.15	12.97	34.12
1912	5.24	3.12	2.30	0.83	0.01	-	11.50	12.57		21.25	12.57	33.82
1913	5.31	3.17	2.45	0.73	0.01	-	11.67	12.76		21.63	12.76	34.39
1914	5.39							(12.95)		21.63	(12.95)	(34.58)
1915	5.35	•	6.55		•	-	11.90	13.01		20.51	13.01	33.52
1916	4.09	2.40	1.90	0.58	0.01	-	8.98	9.86		18.97	9.86	28.83
1917	4.22							(10.17)		17.34	(10.17)	(27.51)

All grain sown area in mln des. and mln hectares.

4. CPR

a) Central Chernozem

	Voronezh G.	Kursk G.	Orlov G.	Tambov G.	Total Central Chernozem in mln des.	Total Central Chernozem in mln hect.
1883	2.25	1.92	1.49	2.18	7.84	8.57
1884	2.28	1.94	1.51	2.19	7.92	8.66
1885	2.26	1.91	1.51	2.20	7.88	8.61
1886	2.27	1.90	1.51	2.19	7.87	8.60
1887	2.28	1.89	1.51	2.21	7.89	8.62
1888	2.27	1.93	1.51	2.19	7.90	8.63
1889	2.27	1.92	1.50	2.18	7.87	8.60
1890	2.27	1.94	1.49	2.25	7.95	8.69
1891	2.25	1.95	1.49	2.24	7.93	8.67
1892	2.05	1.83	1.39	1.89	7.16	7.83
1893	1.95	1.76	1.37	1.95	7.03	7.68
1894	2.02	1.82	1.35	1.98	7.17	7.84
1895	2.00	1.79	1.31	1.94	7.04	7.69
1896	2.01	1.83	1.34	1.99	7.17	7.84
1897	2.01	1.79	1.33	1.99	7.12	7.78
1898	1.98	1.81	1.30	2.03	7.12	7.78
1899	2.09	1.81	1.37	2.02	7.29	7.97
1900	2.15	1.82	1.38	2.06	7.41	8.10
1901	2.15	1.82	1.39	2.07	7.43	8.12
1902	2.15	1.81	1.41	2.08	7.45	8.14
1903	2.21	1.77	1.41	2.10	7.49	8.19
1904	2.25	1.78	1.40	2.11	7.54	8.24
1905	2.25	1.70	1.41	2.14	7.50	8.20
1906	2.08	1.74	1.21	2.21	7.29	7.97
1907	2.20	1.77	1.35	2.09	7.41	8.10
1908	2.14	1.71	1.35	2.06	7.26	7.94
1909	2.15	1.70	1.38	2.10	7.33	8.01
1910	2.29	1.71	1.31	2.16	7.47	8.16
1911	2.28	1.72	1.31	2.16	7.47	8.16
1912	2.31	1.78	1.28	2.15	7.52	8.22
1913	2.37	1.71	1.30	2.16	7.54	8.24
1914	2.34	1.78	1.28	2.14	7.54	8.24
1915	2.30	1.73	1.26	2.15	7.44	8.13
1916	2.18	1.71	1.36	1.92	7.17	7.84
1917	2.05	1.68	1.34	2.09	7.16	7.83

Cont'd...

All grain sown area in mln des. and mln hectares. (cont'd)

4. CPR

b) Volga

	Astrakhan	Saratov	Samara	Penza	Simbirsk	Kazan	Vyatka	Ufa G.	Total Volga in mln des.	Total Volga in mln hect.	Total CPR
1883	0.26	2.06	2.33	1.33	1.26	1.73	2.77	1.43	13.17	14.39	22.96
1884	0.27	2.15	2.63	1.34	1.35	1.75	2.83	1.36	13.66	14.93	23.59
1885	0.27	2.15	2.70	1.34	1.35	1.74	2.82	1.45	13.82	15.11	23.72
1886	0.27	2.14	2.61	1.34	1.35	1.74	2.82	1.45	13.75	15.03	23.63
1887	0.27	2.17	2.66	1.34	1.35	1.75	2.87	1.46	13.85	15.14	23.76
1888	0.27	2.15	2.66	1.34	1.35	1.75	2.83	1.45	13.80	15.08	23.71
1889	0.27	2.20	2.64	1.34	1.35	1.74	2.84	1.46	13.84	15.13	23.73
1890	0.3	2.38	3.13	1.33	1.44	1.79	2.90	1.38	14.66	16.02	24.71
1891	0.30	2.37	3.13	1.33	1.43	1.78	2.89	1.38	14.61	15.97	24.64
1892	0.32	1.92	2.20	1.12	1.27	1.62	2.71	1.71	12.87	14.07	21.90
1893	0.27	1.93	2.50	1.11	1.26	1.64	2.79	1.71	13.21	14.44	22.12
1894	0.30	2.03	2.69	1.09	1.24	1.64	2.89	1.36	13.24	14.47	22.31
1895	0.33	2.11	2.71	1.14	1.21	1.62	2.91	1.38	13.36	14.60	22.29
1896	0.34	2.27	3.34	1.15	1.24	1.70	2.92	1.20	14.16	15.48	23.32
1897	0.35	2.30	3.28	1.15	1.20	1.68	2.90	1.50	14.36	15.70	23.48
1898	0.39	2.16	2.93	1.15	1.22	1.68	2.87	1.39	13.78	15.06	22.84
1899	0.39	2.39	3.12	1.22	1.28	1.71	2.85	1.50	14.44	15.78	23.75
1900	0.37	2.52	3.56	1.25	1.29	1.77	2.95	1.73	15.44	16.88	24.98
1901	0.41	2.50	3.73	1.26	1.24	1.77	2.93	1.74	15.63	17.08	25.20
1902	0.41	2.43	3.78	1.27	1.29	1.77	2.86	1.62	15.43	16.86	25.00
1903	0.43	2.55	3.87	1.31	1.32	1.77	2.92	1.71	15.88	17.36	25.53
1904	0.46	2.52	3.99	1.31	1.39	1.79	2.89	1.88	16.23	17.74	25.98
1905	0.48	2.83	4.06	1.22	1.44	1.82	2.99	1.87	16.71	18.26	26.46
1906	0.49	2.94	4.46	1.36	1.42	1.78	3.00	2.02	17.47	19.09	27.06
1907	0.47	2.75	4.12	1.31	1.45	1.95	2.92	1.90	16.87	18.44	26.54
1908	0.49	2.80	4.18	1.30	1.39	1.71	2.92	2.02	16.81	18.37	26.31
1909	0.52	2.70	4.32	1.32	1.36	1.84	2.97	2.10	17.13	18.72	26.73
1910	0.56	2.78	4.55	1.35	1.34	1.81	2.91	2.20	17.56	19.19	27.35
1911	0.57	2.89	4.68	1.32	1.32	1.87	3.02	2.24	17.91	19.58	27.74
1912	0.58	2.68	4.41	1.35	1.36	1.85	2.96	2.02	17.19	18.79	27.01
1913	0.59	2,80	4.64	1.34	1.36	1.85	2.99	2.11	17.68	19.32	27.56
1914	0.61	2.78	4.35	1.32	1.33	1.89	3.02	2.32	17.62	19.26	27.50
1915	0.59	2.75	4.51	1.31	1.32	1.87	2.99	2.19	17.53	19.16	27.29
1916	0.65	2.23	3.90	1.08	1.25	1.46	2.73	2.25	15.55	17.00	24.84
1917	0.44	2.52	3.82	1.16	1.23	1.52	2.44	2.45	15.58	17.03	24.86

All grain sown area in mln des. and mln hectares

5. EPR

a) Urals

	Perm G.	Orenburg G.	All Urals in mln des	All Urals in mln hect.
1883	1.73	1.32	3.05	3.33
1884	1.80	1.35	3.15	3.44
1885	1.80	1.34	3.14	3.43
1886	1.80	1.36	3.16	3.45
1887	1.87	1.26	3.13	3.42
1888	1.80	1.36	3.16	3.45
1889	1.81	1.35	3.16	3.45
1890	1.95	2.13	4.08	4.46
1891	1.75	2.10	3.85	4.21
1892	1.57	1.51	3.08	3.37
1893	1.72	1.51	3.23	3.53
1894	1.80	0.69	2.49	2.72
1895	1.71	1.02	2.81	3.07
1896	1.87	1.34	3.21	3.51
1897	1.90	1.35	3.25	3.55
1898	1.81	1.25	3.06	3.34
1899	1.74	1.26	3.00	3.28
1900	1.84	1.41	3.23	3.55
1901	1.91	1.66	3.57	3.90
1902	1.74	1.65	3.39	3.71
1903	1.91	1.64	3.55	3.88
1904	2.03	1.94	3.97	4.34
1905	2.15	1.99	4.14	4.53
1906	2.21	2.09	4.30	4.70
1907	2.13	1.92	4.05	4.43
1908	2.19	2.02	4.15	4.54
1909	2.15	2.14	4.29	4.69
1910	2.19	2.28	4.47	4.89
1911	2.30	2.33	4.63	5.06
1912	2.20	1.50	3.70	4.04
1913	2.30	1.94	4.24	4.63
1914	2.41	2.25	4.66	5.09
1915	2.36	2.17	4.53	4.95
1916	2.18	2.20	4.38	4.79
1917	1.16	1.44	2.60	2.84

Cont'd...

All grain sown area in mln des. and mln hectares (cont'd)

5. EPR

b) Siberia

	Tobolsk	Tomsk	Amur	Enisii	Irkutsk	Yakutsh	Zabaikal	Kamchatka	Primonskaya	Sakhalin	All Siberia in mln des.	All Siberia in mln hect.
1883												
1884												
1885												
1886												
1887												
1888												
1889												
1890												
1891												
1892												
1893												
1894												
1895												
1896	•	•	nd	3.11		nd	nd		nd			(3.9)
1897	•	•	nd	3.08		nd	nd		nd			(3.8)
1898	•	•	nd	3.13		nd	nd		nd			(3.9)
1899	•	•	nd	3.09		nd	nd		nd			(3.9)
1900	•	•	nd	3.22		nd	nd		nd			(4.0)
1901	1.10	1.52	nd	0.39	0.35	nd	nd		nd			(4.2)
1902	0.97	1.15	nd	0.34	0.35	nd	nd		nd			(3.5)
1903	1.11	1.43	nd	0.10	0.33	nd	nd		nd			(3.7)
1904	1.22	1.55	nd	0.43	0.38	nd	nd		nd			(4.5)
1905	1.14	1.57	nd	0.43	0.36	nd	nd		nd			(4.4)
1906	1.18	1.67	nd	0.44	0.35	nd	nd		nd			(4.55)
1907	1.10	1.89	nd	0.42	0.35	nd	nd		nd			(4.7)
1908	1.21	1.97	0.23	0.44	0.36	0.02	0.32	-	0.17	-	4.55	4.97
1909	1.21	2.30	0.23	0.44	0.40		0.32	-	0.18	-	4.90	5.36
1910	1.23	2.29	0.26	0.40	0.34	0.01	0.32	-	0.21	-	4.85	5.30
1911	1.37	2.54	0.25	0.43	0.36	0.01	0.34	-	0.23	-	5.30	5.79
1912	1.12	2.89	0.29	0.50	0.36	0.02	0.34	-	0.24	-	5.52	6.03
1913	1.47	3.38	(0.26)	0.58	0.43	(0.02)	(0.34)	-	(0.23)	-	6.71	7.33
1914												
1915	•	•	nd	6.02		nd	nd		nd		6.89	7.53
1916	1.64	3.16	(0.2)	0.60	0.41	0.02	(0.3)		(0.2)		6.53	7.14
1917	1.66	1.11	(0.2)	0.66	0.38	0.03	(0.3)		(0.2)		4.48	4.90

Cont'd...

All grain sown area in mln des. and mln hectares (cont'd)

5. EPR

c) Steppe Krai/Kazakhstan

	Akmolinsk	Semipalalinsk	Semerechensk	Uralsk	Turgai	Syr Daryensk	All Kazakstan in mln des.	All Kazakstan in mln hect.	5. a) Urals	5. b) Siberia	5. c) Kazakstan	5. All EPR
1883									3.33			
1884									3.44			
1885									3.43			
1886									3.45			
1887									3.42			
1888									3.45			
1889									3.45			
1890									4.46			
1891									4.21			
1892									3.37			
1893									3.53			
1894									2.72			
1895									3.07			
1896	*	0.93		nd		nd		(1.4)	3.51	(3.9)	(1.4)	(8.8)
1897	*	0.92		nd		nd		(1.3)	3.55	(3.8)	(1.3)	(8.7)
1898	*	0.94		nd		nd		(1.4)	3.34	(3.9)	(1.4)	(8.6)
1899	*	0.93		nd		nd		(1.4)	3.28	(3.9)	(1.4)	(8.6)
1900	*	0.97		nd		nd		(1.4)	3.55	(4.0)	(1.4)	(9.0)
1901	0.23	0.07	0.28	nd	0.22	nd		(1.2)	3.90	(4.2)	(1.2)	(9.3)
1902	0.24	0.07	0.41	nd	0.24	nd		(1.4)	3.71	(3.5)	(1.4)	(8.6)
1903	0.30	0.09	0.31	nd	0.29	nd		(1.4)	3.88	(3.7)	(1.4)	(9.0)
1904	0.24	0.13	0.33	nd	0.35	nd		(1.5)	4.34	(4.5)	(1.5)	10.34
1905	0.27	0.12	0.35	nd	0.41	nd		(1.7)	4.53	(4.4)	(1.7)	10.63
1906	-	0.13	0.37	nd	0.35	nd		(1.6)	4.70	(4.6)	(1.6)	10.90
1907	0.26	0.14	0.43	nd	0.44	nd		(1.9)	4.43	(4.7)	(1.9)	11.03
1908	0.28	0.15	0.46	0.37	0.49	0.09	1.84	2.01	4.54	4.97	2.01	11.51
1909	0.38	0.23	0.51	0.52	0.56	0.11	2.31	2.52	4.69	5.36	2.52	12.57
1910	0.36	0.21	0.51	0.45	0.59	0.08	2.20	2.40	4.89	5.30	2.40	12.59
1911	0.63	0.23	0.55	0.46	0.72	0.10	2.69	2.94	5.06	5.79	2.94	13.79
1912	0.73	0.29	0.62	0.45	0.50	0.12	2.71	2.96	4.04	6.03	2.96	13.03
1913	0.93	0.38	(0.62)	0.54	0.68	(0.12)	3.24	3.54	4.63	7.33	3.54	15.50
1914									5.09		(3.54)	(15.96)
1915	*	3.53		*	*	nd	3.79	4.14	4.95	(7.53)	(4.14)	(16.62)
1916	1.30	0.43	(0.6)	0.60	0.98	(0.1)	4.01	4.38	4.79	7.14	4.38	16.31
1917	1.48	0.47	(0.6)	0.26	-	(0.1)		(4.19)	2.84	4.90	(4.19)	(11.93)

Grain production in mln tons from TsSK data by region

Year	NCR	SCR	SPR	CPR	EPR	USSR
1883	8.32	(1.55)	(10.34)	12.63	((5.0))	(37.8)
1884	7.11	"	(12.51)	13.79	"	(40.0)
1885	6.74	"	(8.41)	12.01	"	(33.7)
1886	9.03	"	(7.97)	14.43	"	(38.0)
1887	9.04	"	(15.41)	14.12	"	(45.1)
1888	8.57	"	(15.78)	13.35	"	(44.3)
1889	8.43	"	(7.59)	14.33	"	(36.9)
1890	8.25	"	(13.50)	12.30	"	(40.6)
1891	7.48	"	(11.30)	6.64	"	(32.0)
1892	7.18	"	(13.04)	10.04	((5.5))	(37.2)
1893	8.37	"	(21.61)	14.72	((6.0))	(52.3)
1894	8.97	"	(18.84)	17.32	"	(52.7)
1895	8.05	"	(15.24)	15.43	((6.5))	(46.8)
1896	8.49	"	16.00	16.03	(6.78)	48.85
1897	7.61	"	12.99	11.15	(6.55)	39.85
1898	8.56	"	19.69	10.36	(5.99)	45.15
1899	9.80	"	16.50	19.74	(7.74)	55.33
1900	9.67	(1.6)	15.29	18.86	(5.55)	50.97
1901	8.20	"	18.35	11.11	(3.75)	43.01
1902	9.35	"	24.96	18.15	(7.08)	61.14
1903	8.39	"	23.16	16.18	(8.03)	57.36
1904	10.21	(1.63)	23.32	23.78	(7.66)	66.67
1905	8.16	(1.63)	23.12	13.15	(9.61)	55.67
1906	6.95	(1.63)	21.66	8.56	(7.44)	46.24
1907	8.20	(1.69)	21.19	15.17	(8.18)	54.43
1908	9.50	1.79	21.49	15.44	9.29	57.51
1909	8.46	1.87	27.61	23.37	8.48	69.79
1910	8.90	2.06	27.85	19.53	8.97	67.31
1911	9.53	1.63	23.64	10.93	5.66	51.39
1912	10.07	2.16	27.66	21.36	9.70	70.95
1913	10.13	2.09	33.61	22.54	11.29	79.66
1914	8.67	2.13	26.52	16.38	14.11	67.81
1915	10.36		(27.60)	23.20		
1916	9.79		(27.74)	19.69		

Grain Sown Area in millions of hectare Summary Table

	NCR	SCR	SPR	CPR	EPR	All USSR
1883	13.65	(2.5)	(22.1)	22.96	8.2	(69.5)
84	13.73	(2.5)	(22.2)	23.59	8.3	(70.3)
1885	13.75	(2.5)	(22.4)	23.72	8.4	(70.8)
86	13.76	(2.5)	(22.4)	23.63	8.4	(70.7)
87	13.79	(2.5)	(22.3)	23.76	8.4	(70.8)
88	13.73	(2.5)	(22.5)	23.71	8.4	(70.8)
89	13.76	(2.5)	(22.4)	23.73	8.4	(70.8)
1890	13.40	(2.5)	(24.4)	24.71	8.5	(73.5)
91	13.68	(2.5)	(24.8)	24.64	8.6	(74.1)
92	12.87	(2.5)	(26.4)	21.90	8.8	(72.3)
93	12.78	(2.5)	(24.9	22.12	(8.6)	(70.9)
94	12.59	(2.5)	(25.7)	22.31	(8.8)	(71.7)
1895	12.60	(2.5)	(24.1)	22.29	(8.6)	(70.1)
96	13.07	(2.5)	24.76	23.32	(8.8)	(72.8)
97	13.04	(2.5)	25.89	23.48	(8.7)	(73.6)
98	13.04	(2.5)	26.19	22.84	(8.6)	(73.1)
99	13.45	(2.5)	27.11	23.75	(8.6)	(75.4)
1900	13.37	(2.5)	27.68	24.98	(9.0)	(77.6)
01	13.28	(2.5)	28.60	25.20	(9.3)	(78.9)
02	13.45	(2.5)	29.24	25.00	(8.6)	(78.7)
03	13.38	(2.5)	30.11	25.53	(9.0)	(80.5)
04	13.31	(2.5)	30.51	25.98	10.3	(82.60)
1905	13.01	(2.5)	30.93	26.46	10.6	(83.50)
06	12.96	(2.5)	31.71	27.06	10.9	(85.13)
07	12.77	(2.6)	30.64	26.54	11.03	(83.58)
08	12.74	2.63	31.41	26.31	11.51	84.60
09	12.58	2.85	31.91	26.73	12.57	86.64
1910	12.79	3.02	33.60	27.35	12.59	89.35
11	12.77	2.66	34.12	27.74	13.79	91.08
12	12.76	2.86	33.82	27.01	13.03	89.48
13	12.98	3.24	34.39	27.56	15.50	93.67
14	12.91	(3.2)	(34.58)	27.50	(15.96)	(94.15)
1915	12.50	(3.1)	(33.36)	27.29	(15.82)	(92.07)
16	10.82	(3.0)	(28.83)	24.84	(16.31)	(83.80)
17	10.64	(3.0)	(27.51)	24.86	(11.93	(77.94)

Grain yields in tsentners per hectare

	NCR	SCR	SPR	CPR	EPR	All USSR
1883	6.10		(4.68)	5.50	6.1	(5.44)
84	5.18		(5.64)	5.85	6.1	5.69
1885	4.90		(3.75)	5.06		4.76
86	6.56		(3.56)	6.11		5.37
87	6.56		(6.91)	5.94		6.37
88	6.24		(7.01)	5.63		6.26
89	6.13		(3.39)	6.04		5.21
1890	6.16		(5.53)	4.98		5.52
91	5.47		(4.56)	2.69		4.31
92	5.58		(4.94)	4.58		5.15
93	6.55		(8.68)	6.63		7.37
94	7.12		(7.33)	7.76		7.35
1895	6.39		(6.32)	6.92		6.68
96	6.50		(6.46)	6.87	7.76	6.74
97	5.84		(5.02)	4.75	7.53	5.41
98	6.56		(7.52)	4.54	6.97	6.31
99	7.29		(6.09)	8.31	9.00	7.34
1900	7.23		(5.52)	7.55	6.17	6.57
01	6.17		(6.42)	4.41	4.03	5.45
02	6.95		(8.53)	7.26	8.23	7.77
03	6.27		(7.69)	6.34	8.92	7.13
04	7.67	(6.5)	7.64	9.15	7.44	(8.01)
1905	6.27	(6.5)	7.47	4.97	9.13	(6.68)
06	5.36	(6.5)	6.83	3.16	6.74	(5.42)
07	6.42	(6.5)	6.92	5.72	7.33	(6.50)
08	7.46	6.81	6.84	5.87	8.07	6.80
09	6.72	6.56	8.65	8.74	6.75	8.06
1910	6.96	6.82	8.29	7.14	7.12	7.53
11	7.46	6.13	6.93	3.94	4.16	5.64
12	7.89	7.55	8.18	7.91	7.44	7.93
13	7.80	6.45	9.77	8.18	7.28	8.50
14	6.72	2.13		5.96		7.20
1915	8.29			8.50		

Grain production in tons per capita of all population

	NCR	SCR	SPR	CPR	EPR	USSR
1883	0.376		(0.461)	0.586		(0.457)
84	0.317		(0.549)	0.633		(0.477)
1885	0.297		(0.360)	0.541		(0.395)
86	0.395		(0.334)	0.639		(0.438)
87	0.389		(0.635)	0.613		(0.510)
88	0.365		(0.640)	0.570		(0.493)
89	0.354		(0.298)	0.598		(0.401)
1890	0.343		(0.522)	0.507		(0.435)
91	0.307		(0.428)	0.270		(0.337)
92	0.291		(0.484)	0.404		(0.385)
93	0.337		(0.790)	0.593		(0.537)
94	0.356		(0.676)	0.695		(0.533)
1895	0.315		(0.536)	0.608		(0.464)
96	0.329		0.552	0.623	(0.454)	0.476
97	0.291		0.437	0.426	(0.439)	0.382
98	0.323		0.651	0.388	(0.388)	0.434
99	0.365		0.534	0.731	(0.489)	0.512
1900	0.355		0.488	0.689	(0.341)	0.464
01	0.298		0.570	0.398	(0.225)	0.384
02	0.336		0.762	0.639	(0.414)	0.536
03	0.296		0.692	0.561	(0.458)	0.494
04	0.357	0.200	0.683	0.806	(0.427)	0.563
1905	0.280	0.196	0.666	0.437	(0.522)	0.461
06	0.237	0.192	0.616	0.280	(0.390)	0.377
07	0.275	0.194	0.588	0.487	(0.410)	0.433
08	0.315	0.201	0.589	0.488	0.451	0.456
09	0.277	0.207	0.744	0.731	0.403	0.538
1910	0.289	0.226	0.741	0.605	0.422	0.514
11	0.306	0.177	0.622	0.333	0.261	0.387
12	0.318	0.229	0.713	0.641	0.434	0.523
13	0.315	0.217	0.847	0.667	0.493	0.577
14	0.266	0.218	0.654	0.470	0.603	0.480
1915	0.314		(0.673)	(0.663)		

iv) 1909/13 Groman's data

a) Source V.G. Groman, 'Khlebnaya produktsiya i khlebnyii eksport Rossii, in Entsiklopediya Russkogo Eksporta, Tom 1, Berlin 1924, pp. 161-73. Data originally from Materialy k prodovolstvennomu planu. Proizvodstvo perevozki i potrebleniye khlebov v Rossii, Petrograd, 1917, vyp. II.

b) Grouping of regions

(see overpage)

c) Units

Only production figures were given. These were supplied in units of millions of puds, these have been converted into million tons.

d) Notes

Groman supplied two variants of these figures: with and without a 19% correction. In this table I have given only the uncorrected data.

b) Regionalisation used by V.G.Groman for 1909/13 data

My major regions	Groman's regions	Basic administrative regions
NCR	Severnyi and Severo-Zapadnyi (Northern and North-Western)	Arkhangelskaya G., Olonetskaya G., Vologodskaya G., Novgorodskaya G., Leningradskaya G.
	Zapadnyi (Western) a) Leaving USSR	Vilenskaya G., Kovenskaya G., Grodnenskaya G.
	b) Remaining	Pskovskaya G., Vitebskaya G., Mogilevskaya G., Minskaya G., Chernigovskaya G.
	Tsentralno-Promyishlennyii (Central-Industrial)	Smolenskaya G., Tverskaya G., Yaroslavskaya G., Kostromskaya G., Nizhegorodskaya G., Vladimirskaya G., Moskovskaya G., Kaluzhskaya G.
SPR	Yugo-Zapadnyi, Malorossiiskii, Novorossiiskii and Donskoi (South-West, Malorossia, Novorossia, and Don)	Kievskaya G., Volyinskaya G., Podolskaya G., Poltavskaya G., Kharkovskaya G., Voronezhskaya G., Bessarabskaya G., Khersonskaya G., Tavricheskaya G., Ekaterinoslavskaya G., Donskaya G.
	Predkavkazskii (Subcaucasus)	Stavropolskaya G., Terskaya G., Kubanskaya G., Chernomorskaya G.
CPR	Tsentralno-Zemledelcheskii (Central-Agricultural)	Penzenskaya G., Tambovskaya G., Ryazanskaya G., Tulskaya G., Orlovskaya G., Kurskaya G.
	Yugo-Vostochnyii and Nizhne-Volzhskii (South-Eastern and Lower Volga)	Orenburgskaya G., Simbirskaya G., Samarskaya G., Saratovskaya G., Astrakhanskaya G.

EPR	Prikamskii	Vyatskaya G.,
	Priuralskii	Kazanskaya G.,
		Ufimskaya G.,
		Permskaya G.,
	Aziatskaya Rossiya	

Note: No breakdown of the different regions included within Aziatskaya Rossiya was given. Apart from the EPR regions this group may well have included regions from the SCR.

Grain production in 1909/13 in mln. pds. and mln. tons

	Wheat	Rye	Barley	Oats	Maize	Millet	Buckwheat	All seven grains in mln. tons
1. NCR								
Sev i Sev Zap	0.89	33.96	10.36	31.63	-	-	0.05	
Zap. (remaining)	4.26	114.82	20.16	51.44	0.01	2.61	9.97	
Tsent. Prom.	5.10	131.53	12.53	84.11	-	1.34	3.26	
1. All NCR	10.26	280.31	43.05	167.18	0.01	3.95	13.28	
in mln. tons	0.17	4.59	0.71	2.74	-	0.06	0.22	8.49
3. SPR								
Ukraine	582.96	290.90	386.50	172.18	87.66	48.61	24.09	
Predkavkoz	195.84	11.51	90.08	26.28	21.62	16.16	0.32	
3. All SPR	778.80	302.41	476.58	198.46	109.28	64.77	24.41	
in mln. tons	12.76	4.95	7.81	3.25	1.79	1.06	0.40	32.02
4. CPR								
Tsent. Zem.	14.33	248.60	3.48	173.79	-	39.45	11.75	
Yugo Vost. & N. Volzhskii	201.70	126.82	8.09	62.01	0.05	21.06	3.78	
4. All CPR	216.03	375.42	11.57	235.80	0.05	60.51	15.53	
in mln. tons	3.54	6.15	0.19	3.86	-	0.99	0.25	14.98
5. EPR								
Priural	50.42	189.06	22.28	147.10	-	6.63	11.02	
Az. Ross.	250.89	50.65	48.87	105.28	24.04	20.72	2.91	
5. All EPR	301.31	239.71	71.15	252.38	24.04	27.35	13.93	
in mln. tons	4.94	3.93	1.17	4.13	0.39	0.45	0.23	15.24
All USSR	21.41	19.62	9.88	13.98	2.18	2.56	1.10	70.73
All Empire	1354.05	1429.75	602.35	964.61	133.39	159.03	73.24	
in mln. tons	22.18	23.42	9.87	15.80	2.18	2.60	1.20	77.25

Source: V.G. Groman, Entsiklopediya Russkogo Eksporta, Tom 1, Berlin 1924, pp. 162-73

v) 1909/13, 1916 and 1917 Lositsky's data

a) Source A.E. Lositsky, Urozhai khlebov v Rossii v 1917 g., M.1918 pp. 46-7.

b) Groupings of regions (see overpage)

My groupings	Lositsky's groupings	Administrative regions
NCR	Severnyi R. (Northern)	Arkhangelskaya G., Vologodskaya G.,
	Priozernyi R. (Lake Region)	Petrogradskaya G., Pskovskaya G., Novgorodskaya G., Olonetskaya G.,
	Belorusskii R. (Belorussia)	Mogilevskaya G., Minskaya G., Vitebskaya G., Smolenskaya G.,
	Tsent.Prom.R. (Central Industrial)	Vladimirskaya G., Moskovskaya G., Kaluzhskaya G., Tverskaya G., Yaroslavskaya G., Kostromskaya G.,
	Pribaltiiskii R. (Baltic)	Estlyandskaya G., Liflyandskaya G., (less Rizhskii & Ezelski uezds)
SCR		
SCR	Zakavkazye (Caucasus)	Bakinskaya G., Dagestanskaya G., Karsskaya G., Kutaisskaya G., Tiflisskaya G., Erivanskaya G., Elisavetpolskaya G., Batumskaya O.,
	Turkestan (Turkestan)	Zakaspiiskaya G., Samarkandskaya G., Semyiryechenskaya G., Syr-Daryinskaya G., Ferganskaya O.,

SPR	Yugo-Zapadnyi (South-East)	Kievskaya G., Podolskaya G., Volyinskaya G.,
	Novo-rossiiskii (Novorossia)	Bessarabskaya G., Khersonskaya G., Tavricheskaya G., Ekaterinoslavskaya G., Donskaya O.
	Malorossiiskii (Malorossia)	Kharkovskaya G., Chernigovskaya G., Poltavskaya G.,
	Sev.Kavkazskii (North Caucasus)	Kubanskaya O., Stavropolskaya G., Terskaya O., Chernomorskaya G.,
CPR	Tsent.Zemled. (Central Agricultural)	Kurskaya G., Orlovskaya G., Tulskaya G., Ryazanskaya G., Tambovskaya G., Voronezhskaya G.,
	N.Volzhskii (Lower Volga)	Samarskaya G., Orenburgskaya G., Astrakhanskaya G.,
	Sr.Volzhskii (Central Volga)	Simbirskaya G., Saratovskaya G., Penzenskaya G., Kazanskaya G., Nizhegorodskaya G., Ufimskaya G.,
EPR	Priuralskii (Urals)	Vyatskaya G., Permskaya G.,
	Zap.Sibirskii (Western Siberia)	Tobolskaya G., Tomskaya G., Turgaiskaya G., Semipalatinskaya G., Akmolinskaya G., Uralskaya G.,
	Vost.Sibirskii (Eastern Siberia)	Yenisyeiskaya G., Irkutskaya G., Zabaikalskaya G., Amurskaya G., Primorskaya O.

Source; See A.E.Lositskii, ibid., M.1918, p.45.

Grain production in mln. tons

	1909/13	1916	1917
1. NCR			
Severnyi	0.537	0.512	0.494
Priozernyi	1.135	1.078	1.192
Belorusskii	2.659	2.626	2.383
Tsent. Prom.	2.557	2.103	1.525
All NCR	6.888	6.319	5.594
2. SCR			
Zavkavkoz	1.059	-	0.893
Turkestan	1.736	-	0.921
All SCR	2.795	-	1.814
3. SPR			
Malo-rossiiskii	5.198	4.939	4.469
Yugo-zapadnyi	5.516	5.669	4.805
Novo-rossiiskii	12.832	10.585	11.017
	23.546	21.193	20.291
Sev. Kavkoz	5.567	2.988	4.218
All SPR	29.113	24.181	24.509
4. CPR			
Tsent. Zemled.	8.908	8.756	6.928
N. Volzhskii	4.043	2.633	2.419
Sredne Volzhskii	7.674	6.355	4.434
All CPR	20.625	17.744	13.781
5. EPR			
Priuralskii	4.044	3.871	3.138
Zap. Sibirskii	3.646	4.455	7.845
Vost. Sibirskii	1.240	1.753	1.967
All EPR	8.930	10.079	12.950
All Russia	68.350	-	58.648
(Less SCR)	65.555	58.323	56.834

Source: A.E. Lositsky, Urozhai khlebov v Rossii v 1917g., M.1918, pp. 46-47.

vi) 1901/05, 1906/10, 1911/15, 1913, 1916, 1917, Kondratiev and Oganovsky's data.

a) Source N.D. Kondratiev (ed.), N.P. Oganovsky (compiler) Selskoye khozyaistvo rossii vXX veke Sbornik Statistiki Ekonomicheskikh svedenii za 1901-22gg., M.1923, pp. 78-116, 160-197. These are TsSK data for 1901-1915 and agricultural census data for 1916 and 1917.

b) Grouping of regions

c) Units: The data were given in old weight and area units, they have been converted by me into metric units.

d) Presentation of data

The sown area data as presented by Oganovsky were given for each type of grain separately with no aggregation. The aggregates presented here were calculated by me after I had adjusted the regional data for each grain. I have therefore not presented the basic data in the original regionalisation. The above groupings have been used in my adjustments and see p.82 for an example of using these groupings to adjust the Kondratiev/Oganovsky production data for later years.

Grain production sowings and yield for seven main grains in million tons, hectares and tsentners/hectares

	1901/05	1906/10	1911/15	1913	1916	1917	1920	1921
Production								
NCR	6.27	5.65	6.82	7.15	6.74	-	3.37	4.54
SPR	22.09	23.43	27.45	33.17	30.88	-	-	8.06
CPR	16.57	16.61	18.94	21.99	19.98	-	7.15	6.46
EPR	8.08	9.27	12.17	13.08	11.25	-	6.29	6.20
USSR-SCR	52.59	54.53	63.61	74.66	69.08	-	-	24.72
Sown Area								
NCR	9.52	9.06	9.12	9.26	8.00	7.84	5.71	5.72
SPR	29.51	31.13	33.52	34.05	29.20	28.27	-	21.24
CPR	25.11	26.21	26.68	26.92	24.94	25.58	18.76	15.01
EPR	11.29	13.11	6.30	16.49	17.37	17.79	15.58	12.02
USSR-SCR	75.22	79.48	85.63	86.70	79.45	79.39	61.81	54.02
Yield								
NCR	6.59	6.24	7.48	7.72	8.43	-	5.90	7.94
SPR	7.49	7.53	8.19	9.74	10.58	-	-	3.79
CPR	6.60	6.34	7.10	8.17	8.01	-	3.81	4.30
EPR	7.16	7.07	7.47	7.93	6.48	-	4.04	5.16
USSR-SCR	6.99	6.86	7.43	8.61	8.69	-	-	4.58

b)Post revolutionary grain production data

i) Sources

(1) 1916 (all, peasant only), 1923-1927, uncorrected, Osnovniye Elementy Selsko-Khozyaistvennogo proizvodstva SSSR 1916 i 1923-1927 gg., M.1930, pp. 14-41.

(2) 1913, 1916, 1917, 1920, 1921, N.D. Kondratiev and N.P. Oganovsky (eds) Selskoye Khozyaistvo Rossii v XX vekye, M. 1923, pp. 102-113

(3a) 1909/13, 1916, 1917, 1920-22, Trudy TsSU, Tom XVIII, M.1924, pp. 131-132.

(3b) 1920, 1921, 1922, Trudy TsSU, Tom VIII, vyp. 4, M.1924, pp. 386-9

(3c) 1923, Trudy TsSU, Tom VIII, vyp. 5, M.1924, pp. 185-186.

(3d) 1916, 1923, 1924, Trudy TsSU, Tom VIII, vyp. 7, M.1926, pp. 112-113

(4) 1916, 1923-1925, Abrégé des données statistiques de l'URSS, M.1925, pp. 54-61.

(5) 1924-1927, Ezhegodnik Khleboborota, No.1, M.1928, pp. 83-5

(6) 1925-1928, Statisticheskii Spravochnik SSSR za 1928g., M.1929, pp. 178-203

(7) 1928-1931, Narodnoye Khozyaistvo SSSR, M.1932, pp. 154-61, 172-3

(8a) 1927-1933, Sotzialisticheskoye Stroitelstvo SSSR, M.1934, pp.

(8b) 1928-1934, Selskoye Khozyaistvo SSSR, Ezhegodnik za 1935g., M.1936, pp. 252-259.

(8c) 1934-1935, Sotzialisticheskoye Stroitelstvo SSSR, M.1936, p.300

(9) 1913, 1928, 1932-1938, Posevniye Ploshchadyi SSSR, M.1939, pp. 15-23

ii) Notes

The process of compiling roughly regionally comparable data is much more complicated for this period than it was for the earlier period. This is because of the 1) constant change in administrative territorial regions 2) the failure of the Soviet statistical agencies to recalculate all the data into comparable regions, 3) the changing level of corrections and adjustments accepted at different times, that were due to non-regional elements.

Several of the early series exclude Transcaucasia and Central Asia, the two regions which form SCR

There were relatively few administrative regions in the early 1930s and so the regrouping here is very inaccurate. One of the worst problems was with the large Gorky Oblast that was formed covering parts of Nizhnegorodskaya G. of the Central Industrial Region of NCR and parts of Vyatka G. of the Volga Region of CPR. In order to make these regions more comparable 30% of the enlarged Gorky Oblast has been allocated to the NCR and 70% to CPR. A similar division has been made to Onel Oblast in the late 1930s, when 75% has been allocated to the NCR and 75% to the CPR. No other adjustments have been made to the regional data.

Special adjustments can be made to the early TsSU data to make them more comparable. Adjusting the Trudy TsSU Tom VIII, vyp 5 data to make it comparable with the vyp 4 data is a relatively easy task as it just requires transferring the Nizhegorodskaya G totals from the Volzhsk-Kamskii region back to the Mosk. Region.

Adjusting the Tom VIII, vyp 5 data to make it comparable with the Tom XVIII data is far more complicated. I will deal with each region sequentially.

NCR The vyp 5 data must gain Nizhegor G. and lose Kaluzh. and Bryansk.

SPR requires no readjustment.

CPR The vyp 5 data must gain Bryansk G., Kaluzh. G. and Buke evsk G. and it must lose Vyatsk. Volsk A.O. Bashkir SSR. Nizheger. g.

EPR The vyp 5 data must lose Bukyeyevsk G. and gain Vyatsk G. Votsk A.O. and Bashkir.

Source 1.

iii) Different regionalisations

My regions		Administrative regions listed in A. Gayster (ed.) (Source 1)	
NCR	Severnyi	Arkhangel	Arkhangel.G. Komi A.O.
		Vologodskii	Vologodsk.G. Šev.Dvinsk.G.
	Leningrad.-Karel.	Karelsk.	Karel.ASSR Murmansk.G.
		Leningrad.	Leningrad.G. Novgorod.G. Pskovsk.G. Cherepovetsk.G.
	Zapadnyii		Smolensk.G. Bryansk.G.
	Tsentralno-Promyishlen.	Moskovskii	Tver.G. Yaroslav.G. Ivanovo-Voznesensk.G. Kostromsk.G. Kaluzhsk.G. Moskovsk.G. Vladimir.G. Nizhegorodsk.G.
		Ryazano-Tulskii	Ryazansk.G. Tulsk.G.
	BSSR		
SCR	ZSFSR		
	Uzbek.SSR		
	Turk.SSR		
SPR	UkSSR		
	Kryimskii		Kryimskii ASSR
	Severo-Kavkazskii	Priazovskii	Donskoi Okr. Taganrogskii Okr.
		Donetskii	Donetskii Okr. Shakhtinskii Okr.
		Vostochnyi	Salskii Okr. Terskii Okr. Stavropolskii Okr. Sunzhenskii Okr.
		Prikuban-Chernomorskii	Kubanskii Okr. Armavirskii Okr. Maikopskii Okr. Adyigyeisko-Cherkessk.A.O. Chernomorskii Okr.

SPR(Cont'd)	Severo-Kavkazskii (cont'd)	Gornyi	Karachayevsk.A.O. Cherkessk.A.O. Kabardino-Balkarsk.A.O. Severo-Osetin.A.O. Ingushsk.AO. Chechensk.A.O. Vladikavkaz A.Gor. Groznyi A.Gor.
CPR	Tsentralno-Chernozemnyii		Orlovsk.G. Tambovsk.G. Kursk.G. Voronezhsk.G.
	Nizhne Volzhskii	Saratovskii	Saratovsk.G. Stalingradsk.G. Nemetsev Povolzhya ASSR.
		Astrakhanskii	Astrakhansk.G. Kalmyitsk.A.O.
	Srednye Volzhskii		Penzensk.G. Ulyanovsk.G. Samarsk.G. Orenburgsk.G.
	Tatarsko-Chivashskii		Chuvashsk.ASSR. Tatar ASSR.
	Bashkirskii ASSR		Bashkirskii ASSR.
	Vyatskii		Vyatsk.G. Votsk.A.O. Mariisk.A.O.
EPR	Uralskii	Preduralskii	Komi-Permyatskii Okr. Permskii Okr. Sarapulskii Okr. Kungurskii Okr.
		Gorno-Zavodskii	Verknye-Kamskii Okr. Tagilskii Okr. Sverdlovskii Okr. Zlatoustovskii Okr.
		Zauralskii	Irbitskii Okr. Tyumenskii Okr. Ishimskii Okr. Shadrinskii Okr. Kurganskii Okr. Chelyabinskii Okr. Troitskii Okr.
		Tobolskii	Tobolskii Okr.
	Sibirskii	Yugo-Zapadnyi	Tarskii Okr. Omskii Okr. Slavgorodskii Okr. Barabinskii Okr. N.Sibirskii Okr. Kamenskii Okr. Barnaulskii Okr. Biiskii Okr. Rubtsovskii Okr. Oiratsk.A.O.

EPR (cont'd)	Sibirskii (cont'd)	Severo Vostochnyi	Tomskii Okr.
			Kuznetskii Okr.
			Achinskii Okr.
			Krasnoyarskii Okr.
			Minusiiskii Okr.
			Kanskii Okr.
			Khakasskii Okr.
			Tulunovskii Okr.
			Irkutskii Okr.
			Kirenskii Okr.
		Turukhanskii	Turukhanskii Krai
	Buryato-Mongolskii		Buryato-Mongolsk.ASSR
	Yakutskii		Yakutskii ASSR.
	Dalnye Vostochnyi	Zabaikalskii	Chitinskii Okr.
			Sretenskii Okr.
		Amurskii	Zyeiskii Okr.
			Amurskii Okr.
		Primorskii	Nikolaevskii Okr.
			Khabarovskii Okr.
			Vladivostokskii Okr.
		Sakhalinskii	Sakhalinskii Okr.
	Kazakskii(ASSR)	Zapadnyi	Uralsk.G.
			Aktyubinsk.G.
			Adayevskii Okr.
		Vostochnyi	Akmolinsk.G.
			Semipalatinsk.G.
			Kustanaiskii Okr.
		Yuzhnyi	Kara-kalpaksk.A.O.
			Syir Daryinsk.A.O.
			Dzhetisuisk.A.O.
	Kirgizskii(ASSR)		Kirgizsk.ASSR.

Source, A.I.Gayster (ed.) Osnovniye elementyi sel.khoz.proizvodstva SSSR 1916 i 1923-1927 gg., M.1930, pp. 169-70.

Note This is essentially the same regionalisation as proposed by Statplan in TsSU in July/August 1927 (See SO. 1927, No.8, pp. 98-103.)

Administrative regions listed in Trudy TsSU

Tom XVIII,M.1924

NCR	Krainyaya Sev.O.	Arkhangel.G Zyiransk.A.O. Sev.Dvinsk.G. Vologodsk.G. Murmansk.G.
	Priozernaya O.	Karelia T.R. Petrograd.G. Cherepovetsk.G. Novgorod.G. Pskovsk.G. Olonetsk.G.
	Belorusskaya O.	Vitebsk.G. Belorussk.SSR Gomelsk.G. Smolensk.G.
	Moskovsko-prom.O.	Kostromsk.G. Ivanovo-Voznesen.G. Ryibinsk.G. Yaroslav.G. Tversk.G. Nizhegorod.G. Vladimir.G. Moskovsk.G.
SPR Ukraine	Yugo-zapadnaya O.	Volyinsk.G. Kievsk.G. Podolsk.G.
	Malorossiiskaya O.	Chernigov.G. Poltavsk.G. Kharkovsk.G. Kremenchugsk.G.
	Novorossiiskaya O.	Odessk.G. Nikolaevsk.G. Zaporozh.G. Kryim SSR Ekaterinoslav.G. Donetsk.G.
	Yugo-Vostok	Donsk.G. Stavropolsk.G. Kuban-chernomor.G. Tersk.G. Adyig.A.O. Karachaev.A.O. Gorsk.SSR Kabardin-Balk.A.O. Cherkeskoi.A.O.

CPR	Tsent.Zemledel.O.	Ryazan.G. Tulsk.G. Tambovsk.G. Orlov.G. Kursk.G. Voronezh.G. Bryansk.G. Kaluzhsk.G. Penzensk.G.
	Nizhne-Volzhskaya O.	Samarsk.G. Nem.kommuna Tsaritsyin.G. Astrakhan.G. Kalmyitsk.A.O. Saratovsk.G. Simbirsk.G. Tatar.SSR Chuvash.A.O. Marii.A.O. Bukyeyevsk.G.
EPR	Priuralskaya O.	Permsk.G. Ekaterinburg.G. Chelyabinsk.G. Bashkir SSR. Votsk.A.O. Vyatsk.G. Orenburg.G. Ufimsk.G.
	Zap.Sibir	Omsk.G. Novo Nikolaevsk.G. Altai.G. Oiratsk.A.O. Tomsk.G. Tyumensk.G.
	Vost.Sibir	Enisyeisk.G. Irkutsk.G. Mongol-Buryat.G.
	Stepnoi Krai	Akmolinsk.G. Aktyubinsk.G. Kustanai.G. Semipalatinsk.G. Uralsk.G.

Source, Trudy TsSU, Tom XVIII, M.1924, pp.107-113

Early TsSU Regionalisations

My group	TsSU	Administrative regions listed in Trudy TsSU, Tom VIII vyp.4, M.1923	vyp.5, M.1924
NCR	Severnyi	Arkhangel.G	Arkhangel.G
		Zyiransk.A.O.	Zyiransk.A.O.
		Sev.Dvinsk.G.	Sev.Dvinsk.G.
		Vologodsk.G.	Vologodsk.G.
			Murmansk.G.
	Priozernyi	Karelia SSR	Karelia SSR
		Petrograd.G.	Leningrad.G.
		Cherepovetsk.G.	Cherepovetsk.G.
		Novgorodsk.G.	Novgorodsk.G.
		Pskovsk.G.	Pskovsk.G.
	Belorusskii	Vitebsk.G.	Vitebsk.G.
		Belorussk.SSR	Belorussk.SSR
		Gomelsk.G.	Gomelsk.G.
	Mosk-Prom.	Kostromsk.G.	Kostromsk.G.
		Ivanovo-Voznesen.G.	Ivanovo-Voznesen.G.
		Ryibinsk G.	
		Yaroslav.G.	Yaroslav.G.
		Tversk.G.	Tversk.G.
		Nizhegor.G.	
		Vladimir.G.	Vladimir.G.
		Moskovsk.G.	Moskovsk.G.
		Smolensk.G.	Smolensk.G.
		Kaluzhsk.G.	Kaluzhsk.G.
		Bryansk.G.	Bryansk.G.
SPR Ukrain	Pravober.	Volyinsk.G.	Volyinsk.G.
		Kievsk.G.	Kievsk.G.
		Podolsk.G.	Podolsk.G.
	Levober.	Chernigov.G.	Chernigov.G.
		Poltavsk.G.	Poltavsk.G.
		Kharkovsk.G.	Kharkovsk.G.
		Kremenchugsk.G.	
	Yuzhno-Step	Odessk.G.	Odessk.G.
		Nikolaevsk.G	
		Zaporozh.G.	
		Kryim SSR	
			Ekaterinoslav.G.
			Donetsk.G.
	Donetsk.	Ekaterinoslav.G.	
		Donetsk.G.	
N.Caucasus	Yugo-Vostok	Donsk.G.	Donsk.G.
		Stavropolsk.G.	Stavropolsk.G.
		Kuban-Chernomor.G.	Kuban-chernomor.G.
		Tersk.G.	Tersk.G.
			Adyig.A.O.
		Karachaev.A.O.	Karachaev.A.O.
		Gorsk.SSR	Gorsk.SSR
		Kabardin.A.O.	Kabardin.A.O.
			Chechen.A.O.
			Dagestan.SSR.

CPR	Tsent.Zemled.	Ryazan.G. Tulsk.G. Tambov.G. Orlov.G. Kursk.G. Voronezh.G.	Ryazan.G. Tulsk.G. Tambov.G. Orlov.G, Kursk.G. Voronezh.G.
	Nizh.Volzhskii	Samarsk.G. Nem.Kommuna. Tsaritsyin.G. Astrakhan.G.	Samarsk.G. Nem.Kommuna Tsaritsyin.G. Astrakhan.G. Kalmyitsk.A.O.
	Sred.Volzhskii	Penzensk.G. Simbirsk.G. Saratov.G.	Penzensk.G. Ulyanovsk.G. Saratov.G.
	Volzhsko-Kamskii	Vyatsk.G. Votsk.A.O. Tatar.SSR. Marii.A.O. Chuvashsk.A.O.	Vyatsk.G. Votsk.A.O. Tatar.SSR. Marii.A.O. Chuvashsk.A.O. Nizhegorodsk.G.
	Bashkir SSR	Bashkir SSR	Bashkir SSR
EPR	Uralskii	Permsk.G. Ekaterinburg.G. Tyumensk.G. Chelyabinsk.G.	Permsk.G. Ekaterinburg.G. Tyumensk.G. Chelyabinsk.G.
	Zap.Sibir	Omsk.G. Novonikolaevsk.G. Altai.G.	Omsk.G. Novonikolaevsk.G. Altai.G. Oiratsk.A.O.
	Vost.Sibir	Tomsk.G. Enisyeisk.G. Irkutsk.G.	Tomsk.G. Enisyeisk.G. Irkutsk.G. Yakutsk.SSR.
	Zap.Kirg.SSR	Orenburg.G. Aktyubinsk.G. Kustanaisk.G. Uralskaya G. Bukyeyevsk.G.	Orenburg.G. Aktyubinsk.G. Kustanaisk.G. Uralsk.G. Bukyeyevsk.G.
	Vost.Kirg.SSR	Akmolinsk.G Semipalatinsk.G.	Akmolinsk.G. Semipalatinsk.G.

Sources: Trudy TsSU, Tom VIII, vyp.4, M.1923, pp.419.

Trudy TsSU, Tom VIII, vyp.5, M.1924, pp.143-5.

NCR	Krainii Sever	Murmansk.G. Arkhangelsk.G. Komi A.O.
	Severnyi	Vologodsk.G. Sev.Dvinsk.G.
	Severo-Zapadnyi	Leningradsk.G. Cherepovetsk.G. Pskovsk.G. Novgorodsk.G.
	Zapadnyi	Smolensk.G. Gomelsk.G. Bryansk.G.
	Moskovsko-Promyishlennyi	Tversk.G. Yaroslavsk.G. Ivanovo-Voznesensk.G. Kostromsk.G. Kaluzhsk.G. Moskovsk.G. Vladimirsk.G. Nizhegorodsk.G. Ryazansk.G.* Tulsk.G.*
	BSSR	
SCR		
SPR	UkSSR	
	Severnyi Kavkaz	
CPR	Tsentralno-Zemledelcheskii	Penzensk.G. Orlovsk.G. Tambovsk.G. Kursk.G. Voronezhsk.G.
	Nizovye Volgi	Kalmyitsk.A.O. Astrakhansk.G.
	Volzhskii	Ulyanovsk.G. Samarsk.G. Saratovsk.G. Stalingradsk.G.
	Bashkirsko-Orenburgskii	Orenburgsk.G.
	Volzhsko-Kamskii	Vyatsk.G. Votsk.A.O. Mariisk.A.O.

EPR	Uralsk. Ob.	Uralsk.Ob.
	Sibir	
	Yakut ASSR	Yakut.ASSR
	Dalnyi Vostok	

Source, Trudy TsSU, Tom VIII, vyp. 7, M.1926, p.160

Note no further breakdown with the inclusion of Autonomous Republics was given . It must be assumed that they were the same as in Trudy TsSU, Tom XVIII.

*In the regional breakdown given above Ryazansk.G. and Tulsk.G. were included in an independent seperate region Ryazansko-Tulskii, but in the tables they appear to have been included within Moskovsko-Promyishlennyi.

My regions

NCR	Nord Extreme	Karelia ASSR Arkhangel.G. Komi A.O. (Zyiransk.A.O.)
	Nord	Vologda G. Sev.Dvinsk.G.
	Nord Ouest	Leningrad.G. Cherepovets.G. Pskov.G. Novgorod.G.
	Ouest	Smolensk.G. Gomel.G. Bryiansk.G.
	Region Industrielle de Moscou	Tver G. Yaroslav.G. Ivanovo-Vosnessensk.G. Kostroma G. Kaluga. G. Moscow G. Vladimir.G. N.Novgorod.G.
	BSSR	
SCR	ZSFSR	Azerbaidzhan SSR Armenia SSR Georgia SSR
	Turkmen SSR	Turkman SSR
	Uzbek SSR	Uzbek SSR Tadzhik ASSR
SPR	UkSSR	
	RSSA.de la Crimee	Kryim ASSR
	Caúcase du Nord	ArmavirOkr. Donetsk.Okr. Kuban Okr. Maikop Okr. Morosov Okr. Rostov G. Salsk. okr. Stavropol.G. Taganrog.G. Terek.Okr. Chernomorskii Okr. Shakhtinsk.Okr. Sunyensk.Okr. Adyigen A.O. Ingush.A.O. Kabardo-Balkir A.O. Karatchaevo-Cherkess A.O. Sev.Osetin A.O. Chechen A.O. Groznyi A.Gor. Vladikavkaz A.Gor. DagestanASSR.

CPR	Region Centrale Agricole	Tula G. Ryazan G. Penza G. Orel G. Tambov G. Kursk G. Voronezh G.
	Region des - bouches du Volga	Kalmikh A.O. Astrakhan G.
	Volga	Ulyanovsk.G. Samara G. Saratov G, Nemets Povolzhsk.ASSR.
	Volga Kama	Vyatka G. Votka A.O. Marii A.O. Chuvash ASSR. Tatar ASSR.
	Bashkir RSSA	Bashkir ASSR
EPR	Oural	Verkhnye Kama Okr. Zatoust.Okr. Irbit.Okr. Ichim.Okr. Koungour.Okr. Kurgan Okr. Perm.Okr. Sarapoul.Okr. Sverdlovsk.Okr. Tagil.Okr. Tobolsk.Okr. Troitsk.Okr. Tyumem Okr. Chelyabinsk.Okr. Shadrinsk.Okr.
	Siberie	Omsk G. Novo-Nicolaevsk.G. Altai G. Oirat A.O. Tomsk.G. Enissyeisk G. Irkustsk.G. Mongol-Buryat ASSR.
	Yakut ASSR	Yakut ASSR
	Extreme Orient	Transbaikal Amour Chernomorski R. Kamchatka Sakhalin
	Kirgizia ASSR	Kirgizia ASSR

Source Abrégé des données statistiques de l'URSS, M.1925, pp.1-3.

(Source 1)

iv) Basic data regrouped from various sources

Grain Sown Area, without corrections from Osnovniye elementy.. M.1930, pp.16-41

	1916 All	1916 Peasant only	1923	1924	1925	1926	1927
1. NCR							
Severnyi	0.700	0.697	0.647	0.705	0.744	0.774	0.775
Leningrad							
Karel.	1.556	1.507	1.265	1.278	1.266	1.346	1.448
Zapadnyi	1.627	1.538	1.473	1.591	1.700	1.737	1.731
Tsent Prom	6.009	5.666	5.412	6.000	6.037	6.352	6.531
BSSR	2.188	1.990	2.212	1.741	1.848	1.928	2.076
1. All NCR	12.080	11.398	11.009	11.315	11.595	12.107	12.561
2. SCR							
ZSFSR	0.704	0.672	1.231	1.151	1.206	1.330	1.307
Uzb SSR	2.078	2.039	1.400	1.400	1.291	1.310	1.317
Turk SSR	0.197	0.197	0.197	0.197	0.157	0.168	0.181
2. All SCR	2.979	2.908	2.828	2.748	2.654	2.808	2.805
3. SPR							
Uk SSR	18.904	15.712	15.502	16.957	17.414	18.638	18.746
Kryimskii	0.826	0.616	0.328	0.347	0.423	0.565	0.625
Sev Kavkaz	7.879	7.429	4.908	4.992	5.704	6.709	7.097
Dag ASSR	0.134	0.134	0.094	0.113	0.139	0.150	0.172
3. All SPR	27.743	23.891	20.832	22.409	23.680	26.062	26.640
4. CPR							
Tsent Ch. Zem	7.394	6.685	5.733	5.691	6.012	6.265	6.525
Nizhne Volzhskii	5.826	5.457	3.513	3.296	3.631	3.904	4.392
Sredne Volzhskii	9.454	8.791	5.672	6.347	6.653	7.474	7.627
Bashkirskii	2.866	2.761	1.177	1.553	1.811	1.935	1.888
Vyatskii	2.736	2.730	1.757	2.077	2.218	2.511	2.798
4. All CPR	28.276	26.419	17.852	18.964	20.325	22.089	23.230
5. EPR							
Uralskii	5.012	4.980	2.808	3.463	3.959	4.306	4.248
Sibirskii	5.458	5.458	3.779	4.186	4.338	5.628	6.158
Bur Mong.	0.238	0.238	0.167	0.167	0.189	0.201	0.236
Dal. Vost	1.108	1.106	0.766	0.702	0.767	0.903	1.028
Kazak.	3.711	3.711	1.414	1.714	2.385	2.836	3.071
Kirgiz	0.449	0.449	0.116	0.165	0.229	0.265	0.331
5. All EPR	15.976	15.947	9.050	10.397	11.867	14.139	15.072
All USSR	87.054	80.558	61.571	65.833	70.121	77.205	80.308
All CR	15.059	14.306	13.837	14.063	14.249	14.915	15.366
All PR	71.995	66.252	47.734	51.770	55.872	62.290	64.942

Grain Sown Area 1909/13, 1916, 1917 and 1920-1922, from Trudy TsSU, Tom XVIII, M.1924, pp. 122-125.

	1909/13	1916	1917	1920	1921	1922
1. NCR						
Krainyi Sever	0.712	0.660	0.653	0.499	0.522	0.514
Priozernyi	1.537	1.367	1.398	0.996	1.125	1.242
Mosk. Prom.	4.046	2.995	2.987	2.459	2.536	2.851
Belorusskii	3.193	3.147	3.248	2.078	2.422	2.684
1. All NCR	9.488	8.169	8.286	6.032	6.605	7.291
2. SCR	-	-	-	-	-	-
3. SPR						
UkSSR	20.294	19.269	19.872	16.825	16.825	13.045
Yugo Vostok	12.587	9.988	9.207	6.315	5.858	4.310
3. All SPR	32.881	29.257	29.079	23.140	22.683	17.355
4. CPR						
Tsent. Zemledel.	12.318	11.839	12.044	8.409	7.992	8.532
Nizhne Volzhskii	11.670	10.371	10.559	8.152	6.876	4.989
4. All CPR	23.988	22.210	22.603	16.561	14.868	13.521
5. EPR						
Urals	10.016	10.226	9.862	7.851	6.984	4.614
Zap. Sibir	4.312	5.245	5.439	6.110	4.360	2.833
Vost. Sibir	0.914	1.049	1.021	1.084	0.814	0.629
Stepnoi Krai	2.137	3.550	3.552	2.814	2.017	1.419
5. All EPR	17.379	20.070	19.874	17.859	14.175	9.495
All USSR Less SCR	83.736	79.706	79.842	63.592	58.331	47.662
All CR	9.488	8.169	8.286	6.032	6.605	7.291
All PR	74.248	71.437	71.556	57.560	51.726	40.371
Alternatives						
4. CPR (inc. Urals)	34.004	32.436	32.465	24.412	21.852	18.146
5. EPR (ex. Urals)	7.363	9.844	10.012	10.008	7.191	4.881

All grain sown area in mln ha. from Trudy TsSU, Tom VIII, vyp.4, M.1924, pp 386-7
vyp.5, M 1924, pp 185-6.

1/ NCR	1920 (3b)	1921 (3b)	1922 (3b)	1923 (3c)	1923 adj.
a) N & NW	(0.502)*				
Sev.n.	0.393	0.518	0.536	0.572	0.572
Prioz. R.	0.943	1.071	1.185	1.230	1.230
	1.445*	1.589	1.721	1.802	1.802
b) C.I.d Moscow Ind.	3.569	4.026	4.538	3.937	4.857
c) BSSR	1.625	1.765	1.888	2.125	2.125
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx				
1/ All NCR	6.64	7.38	8.15	7.86	8.784

4/ CPR	1920 (3b)	1921 (3b)	1922 (3b)	1923 (3c)	1923 adj.
a) C.Ch-Zem Ts.Zemledel	6.906	6.412	6.930	7.690	7.690
b) Volga					
N.Volga	3.900	3.025	2.207	2.837	2.837
Sr. Volga	4.109	3.821	2.905	3.848	3.848
Bashkir ASSR	1.876	1.594	0.983	1.537	1.537
Volga-Kamski	4.210	3.811	2.843	4.587	3.067
	14.10	12.25	8.94	12.81	11.689
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx				
4/ All CPR	21.01	18.66	15.87	20.50	19.579

3/ SPR	1920	1921	1922	1923	1923
a) Ukraine & Crimea					
Ukraine	17.571	17.550	13.456	14.835	14.835
Crimea				0.333	0.333
	17.571	17.550	13.456	15.168	15.168
b) N. Caucasus & Def.					
Ugo-vostok	4.739	4.466	3.314	4.008	4.008
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx				
3/ All SPR	22.36	22.02	16.77	19.18	19.18

5/ EPR	1920	1921	1922	1923	1923
a) Urals	4.036	3.330	2.015	2.801	2.801
b) Siberia	6.094	4.406	3.068	3.766	3.766
c) Kazakstan Kirgiz SSR	3.465	2.518	1.777	1.603	1.602
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx				
5/ All EPR	13.60	10.25	6.86	8.17	8.17

All USSR less SCR	63.61	58.31	47.65	55.71	55.71

Sources 3b and 3c

Source 3d

ALL grains sown area in mln hectare from Trudy TsSU, Tom.VIII, vyp.7, M.1926pp.112-113

Region	1916	1923	1924
1/NCR(lessBSSR)	8.043	7.798	8.414
BSSR	2.049	1.959	1.936
1/All NCR	10.092	9.757	10.350
2/SCR			
3/SPR			
a)Ukraine	19.808	17.286	18.383
b)N.Caucasus	8.323	5.340	5.526
3/All SPR	28.131	22.626	23.909
4/CPR			
a)C.Ch.Zem	11.472	10.211	10.255
b)Volga			
N.Volga	0.166	0.122	0.144
Volga	5.748	3.910	4.808
Bashkir ASSR	2.973	1.537	1.641
Volga Kamski	5.748	3.910	4.808
	14.635	9.479	11.401
4/All CPR	26.107	19.690	21.656
5/EPR			
a)Urals	5.056	3.385	4.374
b)Siberia			
Siberia	5.645	4.519	4.924
Yakut ASSR	0.038	0.033	0.033
D.Vostok.Krai	1.145	0.891	0.762
	6.828	5.443	5.719
c)Kazakstan			
Kirgiz ASSR	4.083	1.763	2.087
5/All EPR	15.967	10.591	12.180
USSR (less SCR and BUR. Mong ASSR)	85.199	65.671	70.373

All grains sown area in mln ha. from Apercu des donnees statistiques de l'URSS N.1925 p.p. 54-61

1/ NCR	1916	1923	1924	1925
a) N & NW				
Nord extreme	0.125	0.123	0.125	0.124
Nord	0.651	0.586	0.651	0.671
Nord-Oest	1.571	1.466	1.485	1.594
Oest	1.975	1.905	2.018	2.045
	4.322	4.080	4.279	4.434
b) C. Ind.				
Reg.Ind.de Moscou	3.886	3.957	4.356	4.360
c) BSSR	2.055	1.946	1.983	2.071
1/ All NCR	10.263	10.033	10.618	10.865

2/ SCR	1916	1923	1924	1925
a) ZSFSR			1.723	
b) Cent. Asia				
Turkestan			1.404	
2/ All SCR			3.13	

3/ SPR	1916	1923	1924	1925
a) Ukraine & Crimea				
Ukraine	19.516	17.057	18.191	18.672
Crimea ASSR	0.867	0.397	0.427	0.464
	20.383	17.454	18.618	19.136
b) N.Caucasus	8.771	5.733	5.955	6.814
3/ All SPR	29.15	23.19	24.57	25.95

4/ CPR	1916	1923	1924	1925
a) C.Ch-Zem Reg.Cent.Agricole	11.664	10.504	10.532	10.367
b) Volga				
N. Volga	0.171	0.122	0.144	0.148
Volga	9.830	6.610	6.737	7.065
Volga-Kama	5.972	3.991	4.957	5.371
Bashkir ASSR	2.998	1.568	1.683	1.982
	18.971	12.291	13.521	14.566
4/ All CPR	30.64	22.80	24.05	24.93

5/ EPR	1916	1923	1924	1925
a) Urals	5.086	3.450	4.485	4.780
b) Siberia & FE				
Siberia	6.850	5.485	5.772	6.776
c) Kazakstan				
Kirgizia ASSR	4.086	1.766	2.092	2.268
5/ All EPR	16.02	10.70	12.35	13.82

all USSR			74.72	
all USSR lose SCR	80.10	66.72	71.59	75.57

Source 4

All grain sown area in million ha from Ezhegodnik Khlebnoi Torgovlyi, No.1, M.1928, pp 83-5

	1924	1925	1926	1927
1. NCR				
NCR (exc. BSSR)	11.367	11.539	11.852	12.161
BSSR	2.213	2.326	2.407	2.423
1. All NCR	13.580	13.865	14.259	14.584
2. SCR				
a) ZSFSR	1.802	1.784	1.889	1.895
b) Cent. Asia	1.384	1.253	1.391	1.391
2. All SCR	3.186	3.037	3.280	3.286
3. SPR				
Ukraine	19.304	19.885	21.331	21.394
Crimea	0.423	0.518	0.662	0.732
N. Cauc. & Dag.	6.904	7.752	8.634	8.944
3. All SPR	26.631	28.155	30.627	31.070
4. CPR				
a) Cent. Ch. Zem.	6.930	7.395	7.740	7.943
b) Volga				
N. Volga R.	4.451	4.748	5.117	5.565
Sr. Volga R.	7.486	8.075	8.721	8.521
Volga Kamskai	5.419	5.709	6.110	6.399
b) Volga	17.356	18.532	19.948	20.485
4. All CPR	24.286	25.927	27.688	28.428
5. EPR				
a) Urals	4.788	4.952	5.257	5.265
b) Siberia				
Sibir krai	5.750	5.767	6.863	7.549
Bur Mong.) Yakut) D. Vost krai)	1.774	1.286	1.360	1.432
b) Siberia	7.524	7.053	8.223	8.981
c) Kazak & Kirgiz	2.420	3.368	3.806	3.982
5. All EPR	14.732	15.373	17.286	18.228
All USSR	81.816	86.366	93.141	95.597

All grains sown area in mln ha. from Statisticeskii Sorovoznik SSSR za 1928 g M 1929, pp. 178-203

1/ NCR	1925	1926	1927	1928
a) N & NW				
Sev. Raion	0.862	0.865	0.866	0.876
Leningrad Ob	1.663	1.771	1.837	1.644
Karelia ASSR				
Zap. Raion	2.006	2.034	1.994	1.895
	4.531	4.670	4.697	4.415
b) C. Ind. R.	7.173	7.329	7.421	7.085
c) BSSR	2.364	2.443	2.476	2.339
	xxxxxxxxxxxxxxxxxxxxxxxxxxxx			
1/ All NCR	14.068	14.442	14.594	13.839

2/ SCR	1925	1926	1927	1928
a) ZSFSR	1.843	1.889	1.895	1.919
b) C. Asia				
Uzbekistan & Tadzhikistan	1.448	1.478	1.498	1.593
Kirgiz ASSR	0.343	0.367	0.444	0.432
	1.791	1.845	1.942	2.025
	xxxxxxxxxxxxxxxxxxxxxxxxxxxx			
2/ All SCR	3.63	3.73	3.84	3.94

3/ SPR	1925	1926	1927	1928
a) Ukraine & Crimea				
Ukraine	18.924	20.288	20.506	18.925*
Crimea ASSR	0.518	0.662	0.732	0.673
	19.442	20.950	21.238	19.598
b) N. Caucasus & Dag.				
N. Caucasus	7.411	8.129	8.160	7.408
Dagestan ASSR	0.209	0.224	0.249	0.254
	7.620	8.353	8.409	7.662
	xxxxxxxxxxxxxxxxxxxxxxxxxxxx			
3/ All SPR	27.06	29.30	29.65	27.26

4/ CPR	1925	1926	1927	1928
a) C. Cn-Zem	7.434	7.780	7.817	7.799
b) Volga				
N. Volga Krai	4.746	5.067	5.314	5.493
Sr. Volga Ob	5.823	6.228	6.157	6.844
Tatar ASSR	2.995	3.047	3.116	3.088
Chuvash ASSR	2.386	2.530	2.479	2.547
Bashkir ASSR	2.758	3.021	3.196	3.079
Vyatskii K.				
	18.708	19.893	20.262	21.051
	xxxxxxxxxxxxxxxxxxxxxxxxxxxx			
4/ All CPR	26.14	27.67	28.08	28.85

5/ EPR	1925	1926	1927	1928
a) Urals	5.137	5.484	5.398	4.960
b) Siberia & FE				
Sibir. Krai	6.263	7.453	7.979	8.149
Bur-Mong. ASSR	0.272	0.277	0.287	0.301
D. vostok Kr	0.998	1.140	1.234	1.297
	7.533	8.870	9.500	9.747
c) Kazakstan	3.578	3.970	4.146	3.848
	xxxxxxxxxxxxxxxxxxxxxxxxxxxx			
5/ All EPR	16.25	18.32	19.04	18.56

All USSR	87.16	93.48	95.20	92.45

Source 6

All grain sown area in mln ha. from Narodnoe Khozyaistvo SSSR, 1932 pp 154-61

1/NCR	1928	1929	1930	1931
a) N & NW				
Sev.Kraj	0.927	0.951	0.930	0.882
Karelia ASSR	0.047	0.051	0.052	0.038
Leningrad Ob.	1.130	1.070	1.159	1.252
Zap.Ob.	2.781	2.879	2.707	2.928
	4.885	4.951	4.848	5.100
b) C.Ind				
Moscow	3.204	3.542	3.475	3.637
Ivanovsk	1.349	1.404	1.387	1.419
Gorky (50%)	1.461	1.425	1.537	1.514
	6.014	6.371	6.399	6.570
c) BSSR	2.519	2.542	2.574	2.519
	xxxxxxxxxxxxxxxxxxxxxxxxxxxx			
1/ All NCR	13.42	13.86	13.82	14.19

2/ SCR	1928	1929	1930	1931
a) ZSFSR	1.897	1.982	2.046	1.938
b) C.Asia				
Uzbekistan	0.992	1.043	1.307	1.180
Turkmenia	0.178	0.185	0.219	0.162
Tadzhikistan	0.430	0.467	0.686	0.586
Kirgizia	0.540	0.630	0.598	0.726
Karakalp.ASSR	(0.025)*	(0.025)*	0.029	0.029
	2.165	2.351	2.839	2.683
	xxxxxxxxxxxxxxxxxxxxxxxxxxxx			
2/ All SCR	4.06	4.33	4.89	4.62

3/ SPR	1928	1929	1930	1931
a) Ukraine & Crimea				
Ukraine	19.658	20.187	21.977	21.570
Crimea ASSR	0.657	0.669	0.754	0.816
	20.315	20.856	22.731	22.386
b) N.Caucasus & Dag				
N.Caucasus	7.084	8.095	8.557	9.305
Dagestan ASSR	0.244	0.252	0.281	0.262
	7.328	8.347	8.838	9.567
	xxxxxxxxxxxxxxxxxxxxxxxxxxxx			
3/ All SCR	[illegible]	[illegible]	[illegible]	[illegible]

4/ CPR	1928	1929	1930	1931
a) C.Ch-Zem	7.755	8.030	8.350	8.072
b) Volga				
N.Volga Kr	5.516	5.943	6.733	7.733
Sr.Volga Kr	6.626	6.689	7.462	8.194
Tatar ASSR	2.516	2.360	2.602	2.694
Bashkir ASSR	2.444	2.466	2.617	3.126
Gorky (70%)	3.410	3.325	3.586	3.534
	20.512	20.783	23.000	25.281
	xxxxxxxxxxxxxxxxxxxxxxxxxxxx			
4/ All CPR	28.27	28.81	31.35	33.35

5/ EPR	1928	1929	1930	1931
a) Urals	4.853	5.075	4.952	6.170
b) Siberia & Fe				
Zap.Sib.Kraj	8.613	9.577	5.867	7.123
Vost.Sib Kr			1.610	1.681
Yakut ASSR	-	-	0.041	0.053
D.Vostok Kr	1.351	0.872	0.714	0.611
	9.964	10.449	8.232	9.448
c)Kazakstan	3.967*	4.275	3.742	4.757
	xxxxxxxxxxxxxxxxxxxxxxxxxxxx			
5/ All EPR	18.78	19.80	16.93	20.38

All USSR	92.17	96.01	98.55	104.49

Source 7

Source 8a

All grains sown area in mln.ha. from Sotsialisticheskoe Stroitel'stvo SSSR M.1934, (1927-1933), Selskoe Khozyaistvo SSSR, Statistika za 1935. M.1936, pp252-259 (1928-1934)

1/ NCR	1927	1928	1929	1930	1931	1932	1933	1934
a) N.NW								
Sev.Kraj	0.878	0.927	0.951	0.925	0.885	0.832	0.837	0.947
Leningrad	1.263	1.130	1.070	1.293	1.239	1.248	1.271	1.3[illegible]
Karelia	0.053	0.047	0.051	0.050	0.045	0.049	0.043	0.045
Zap.Oblast	2.981	2.781	2.879	3.148	2.930	2.827	2.759	2.8[illegible]
	5.175	4.885	4.951	5.416	5.099	4.956	4.910	5.269
b)C.Ind.								
Moscow	3.568	3.204	3.542	3.604	3.622	3.842	3.765	3.840
Ivanovsk	1.484	1.349	1.404	1.485	1.419	1.421	1.401	1.495
Gorky(30%)	1.521	1.461	1.425	1.603	1.507	1.545	1.529	1.598
	6.573	6.014	6.371	6.692	6.548	6.808	6.695	6.933
c) BSSR	2.538	2.519	2.542	2.569	2.607	2.627	2.486	2.617
	14.29	13.42	13.86	14.68	14.25	14.39	14.09	14.82

2/SCR	1927	1928	1929	1930	1931	1932	1933	1934
a) ZSFSR	1.889	1.898	1.983	2.094	1.939	2.053	1.916	1.991
b) Cent.Asia								
Turkmenia	0.181	0.178	0.187	0.188	0.156	0.183	0.150	0.171
Uzbekistan	0.934	0.992	1.043	1.324	1.069	1.080	1.270	1.363
Tadzhikistan	0.381	0.430	0.466	0.640	0.655	0.574	0.446	0.428
KirgiziaASSR	0.471	0.540	0.629	0.631	0.762	0.765	0.780	0.764
KarakalpASSR	-	-	-	-	0.029	0.026	0.033	0.032
	1.967	2.140	2.325	2.789	2.671	2.628	2.679	2.758
2/ All SCR	3.86	4.04	4.31	4.88	4.61	4.68	4.60	4.75

3/ SPR	1927	1928	1929	1930	1931	1932	1933	1934
a)Ukraine & Crimea								
Ukraine	21.078	19.658	20.187	22.312	21.098	18.124	19.864	20.200
Crimea ASSR	0.766	0.657	0.669	0.790	0.825	0.813	0.833	0.927
	21.844	20.315	20.856	23.102	21.923	18.937	20.697	21.127
b)N.Caucasus & Dag.ASSR	8.638	7.329	8.347	9.272	9.142	9.131	8.949	9.093
	30.48	27.64	29.20	32.37	31.07	28.07	29.65	30.220

All grains sown area in mln ha. from Sotzialisticneskoe Stroitelstvo SSSR M.1934, & Selskoe Knozyaistvo SSSR.Ezhegodnik za 1935g.M.1936.

4/CPR	1927	1928	1929	1930	1931	1932	1933	1934
a)C.Cn-Zem	7.912	7.754	8.030	8.448	8.067	8.012	8.009	4.842 3.440 8.282
b) Volga								
N.Volga Krai	5.331	5.516	5.944	6.901	7.714	7.605	7.455	4.007
Sr.Volga Kr.	6.086	6.626	6.689	7.617	8.294	8.095	7.972	3.235
Tatar ASSR	2.461	2.516	2.360	2.680	2.741	2.761	2.904	2.926
Bashkir ASSR	2.302	2.444	2.466	2.634	3.175	3.029	3.049	3.061
Gorky (70%)	3.550	3.410	3.325	3.740	3.516	3.605	3.567	3.738 8.305
	19.730	20.512	20.784	23.572	25.440	25.096	24.947	25.262
4/ All CPR	27.64	28.27	28.81	32.02	33.51	33.10	32.96	33.54

5/ EPR	1927	1928	1929	1930	1931	1932	1933	1934
a)Urals	5.050	4.853	5.075	5.570	6.232	6.061	5.928	5.908*
b)Sib &FE								
Siberia K.	8.229	8.612	9.265	7.510	8.885	7.891	8.902	10.103*
Yakut ASSR	-	-	-	0.026	0.050	0.063	0.072	0.080
D.Vostok K.	1.239	1.351	1.184	0.719	0.773	0.789	0.823	0.811
	9.468	9.963	10.449	3.255	9.703	8.743	9.797	10.994
c)Kazakstan	3.945	3.992	4.300	3.989	5.064	4.678	4.575	4.537
5/ All EPR	18.46	18.81	19.82	17.82	21.00	19.48	20.30	21.44

All USSR	94.73	92.17	96.01	101.76	104.41	99.70	101.55	104.68

All grains sown area in mlns ha. from Sotzialisticheskoe Stroitelstvo SSSR, M.1936, p.300.

1/ NCR	1934	1935
a) N.& NW		
Sev.Krai	0.947	0.988
Karelia ASSR	0.045	0.044
Leningrad Ob.	1.220	1.253
Kalinin	1.238	1.367
Zap.Ob.	2.327	2.323
	5.827	5.975
b)C.Ind.		
Moscow	3.282	3.147
Ivanovo	1.495	1.567
Gorky	2.634	2.636
	7.411	7.350
c) BSSR	2.617	2.442
	xxxxxxxxxxxxxxx	
1/ All NCR	15.855	15.767

2/ SCR	1934	1935
a) ZSFSR	1.991	2.053
b) C. Asia		
Uzbek SSR	1.273	1.397
Turkmen SSR	0.171	0.200
Tadzhik SSR	0.428	0.481
Kirgiz ASSR	0.764	0.809
Karakalp ASSR	0.032	0.035
	2.668	2.922
	xxxxxxxxxxxxxxx	
2/ All SCR	4.66	4.98

3/ SPR	1934	1935
a) Ukrain & Crimea		
Ukraine	20.200	19.294
Crimea ASSR	0.927	0.886
	21.127	20.180
b)N.Caucasus & Dag		
Sev.Kavkaz Kr.	3.146	3.114
Azov-Chernomor.K	5.947	5.974
	9.093	9.088
	xxxxxxxxxxxxxxxxx	
3/ All SPR	30.22	29.27

4/ CPR	1934	1935
a) C.CH-Zem		
Voronezh	4.842	4.660
Kursk	3.440	3.366
	8.282	8.026
b) Volga		
Stalingrad Krai	3.235	3.164
Saratov Krai	4.007	4.121
Kuibyshev Krai	5.662	5.328
Bashkir ASSR	3.038	2.945
Orenburg	2.849	2.815
Kirov Krai	2.920	2.892
Tatar ASSR	2.926	2.790
	24.637	24.055
	xxxxxxxxxxxxxxxxx	
4/ All CPR	32.92	32.08

5/ EPR	1934	1935
a) Urals		
Sverdlovx	2.029	2.100
Chelyabinsk	2.855	2.856
	4.884	4.956
b)Siberia & FE.		
Omsk	2.185	2.177
Zap.Sibir Krai	5.895	5.754
Krasnoyarsk Krai	1.474	1.472
Vost.Sibir Krai	1.344	1.389
Yakut ASSR	0.080	0.086
D.Vostok Krai	0.811	0.860
	11.789	11.738
c)Kazakstan ASSR	4.354	4.655
	xxxxxxxxxxxxxxx	
5/ All EPR	21.03	21.35

All USSR	104.68	103.44

Source 8b

Source 9

All grains sown area in mln ha. from 'Posevnive ploschadyi SSSR', M.1939 pp. 15-23

1/ NCR	1913	1928	1932	1933	1934	1935	1936	1937	1938
a) N. & NW.									
Arkhangel	0.295	0.289	0.297	0.280	0.320	0.336	0.340	0.339	0.324
Vologda	0.698	0.774	0.730	0.739	0.821	0.852	0.835	0.832	0.795
Kalinin	1.291	1.086	1.233	1.216	1.288	1.367	1.315	1.302	1.219
Karelia	0.049	0.047	0.049	0.043	0.045	0.044	0.045	0.047	0.041
Komi ASSR	0.025	0.038	0.043	0.046	0.053	0.056	0.057	0.057	0.058
Leningrad	0.950	0.776	0.897	0.877	0.973	0.997	0.951	0.962	0.821
Smolensk	1.182	1.198	1.236	1.273	1.344	1.347	1.323	1.308	1.235
Orel (25%)	0.457	0.529	0.532	0.544	0.557	0.538	0.528	0.532	0.511
a) All N&NW	4.947	4.737	5.007	5.018	5.401	5.537	5.394	5.379	4.994
b) C. Ind.									
Ivanovsk	0.738	0.681	0.745	0.732	0.777	0.822	0.800	0.805	0.769
Moscow	0.624	0.525	0.681	0.682	0.685	0.680	0.657	0.649	0.595
Ryazan	1.477	1.495	1.688	1.620	1.659	1.572	1.549	1.587	1.527
Tula	1.067	1.244	1.333	1.264	1.286	1.216	1.212	1.219	1.140
Yaroslav	0.774	0.668	0.675	0.669	0.718	0.745	0.724	0.771	0.739
Gorky	1.420	1.626	1.579	1.573	1.660	1.669	1.602	1.566	1.546
b) All C. Ind.	6.100	6.239	6.701	6.540	6.785	6.704	6.544	6.597	6.296
c) BSSR	2.039	2.519	2.627	2.486	2.617	2.442	2.307	2.244	2.073
1/ All NCR	13.09	13.50	14.33	14.04	14.80	14.68	14.25	14.22	13.36

2/ SCR	1913	1928	1932	1933	1934	1935	1936	1937	1938
a) ZSFSR									
Azerbaidzhan	0.833	0.869	0.881	0.754	0.790	0.847	0.818	0.806	0.783
Georgia	0.702	0.737	0.822	0.808	0.831	0.839	0.858	0.862	0.849
Armenia	0.309	0.291	0.350	0.355	0.370	0.367	0.361	0.367	0.362
	1.844	1.897	2.053	1.917	1.991	2.053	2.017	2.035	1.994
b) C. Asia									
Turkmenia	0.202	0.178	0.183	0.150	0.171	0.200	0.189	0.181	0.189
Uzbekistan	1.521	1.035	1.106	1.302	1.305	1.433	1.393	1.371	1.455
Tadzhikistan	0.438	0.430	0.574	0.446	0.428	0.481	0.522	0.572	0.575
Kirgizia	0.556	0.540	0.765	0.780	0.764	0.809	0.797	0.843	0.793
	2.717	2.183	2.628	2.678	2.668	2.923	2.901	2.967	3.017
2/All SCR	4.56	4.08	4.68	4.60	4.66	4.98	4.92	5.00	5.01

3/ SPR	1913	1928	1932	1933	1934	1935	1936	1937	1938
a) Ukraine & Crimea									
Ukraine	20.710	19.658	18.124	19.864	20.200	19.294	18.730	18.194	17.767
Crimea ASSR	0.770	0.657	0.813	0.833	0.927	0.886	0.848	0.811	0.779
	21.480	20.315	18.937	20.697	21.157	20.180	19.578	19.005	18.546
b) N. Caucasus									
Krasnodar	3.360	2.433	2.718	2.678	2.622	2.649	2.720	2.753	2.564
Ordzhonikidze	2.671	1.767	1.948	1.965	2.171	2.213	2.235	2.230	2.102
Rostov	3.629	2.440	3.577	3.367	3.324	3.325	3.338	3.497	3.462
Kabr-Balk. ASSR	0.163	0.181	0.229	0.261	0.260	0.239	0.204	0.196	0.187
S. Ossetia ASSR	0.047	0.092	0.095	0.088	0.095	0.092	0.087	0.088	0.086
Ch-Ingush ASSR	0.192	0.243	0.375	0.323	0.335	0.305	0.300	0.289	0.284
Dagestan ASSR	0.197	0.174	0.188	0.268	0.285	0.265	0.289	0.302	0.296
	10.259	7.330	9.130	8.950	9.092	9.068	9.173	9.355	8.999
3/ All SPR	31.74	27.65	28.07	29.65	30.25	29.27	28.75	28.36	27.55

All grains sown in mln ha. from Yosevitye vlasnchadyi SSSR M.1939

4/ CPR	1913	1928	1932	1933	1934	1935	1936	1937	1938
a) C.Ch-Zem									
Voronezh	2.465	2.438	2.583	2.587	2.649	2.582	2.560	2.602	2.490
Kursk	2.288	2.244	2.407	2.288	2.393	2.374	2.296	2.259	2.209
Orlov(-25%	1.372	1.586	1.597	1.633	1.672	1.615	1.585	1.597	1.532
Tambov	1.503	1.497	1.444	1.521	1.568	1.500	1.469	1.521	1.450
	7.628	7.765	8.031	8.029	8.282	8.071	7.910	7.979	7.671
b) Volga									
Stalingrad	2.938	2.134	3.334	3.232	3.118	3.028	3.099	3.327	3.177
Kalmyk ASSR	0.107	0.060	0.077	0.095	0.117	0.136	0.138	0.159	0.160
German volga	1.114	0.960	1.110	1.121	1.112	1.133	1.116	1.163	1.134
Saratov	2.728	2.025	2.749	2.659	2.544	2.639	2.653	2.907	2.729
Kuibyshev	2.782	2.524	3.156	3.047	3.132	3.072	2.956	3.124	3.090
Mordov ASSR	0.826	0.854	0.810	0.916	0.998	0.874	0.868	0.902	0.891
Penza	1.510	1.812	1.684	1.850	1.960	1.805	1.775	1.839	1.764
Orkalov	1.977	1.974	3.028	2.878	2.849	2.815	2.860	3.149	3.055
Tatat ASSR	2.405	2.516	2.761	2.904	2.926	2.790	2.744	2.759	2.657
Chuvash ASSR	0.565	0.493	0.551	0.549	0.562	0.558	0.549	0.543	0.524
Marii ASSR	0.425	0.375	0.389	0.395	0.413	0.410	0.389	0.392	0.391
Kirov	1.864	1.657	1.931	1.848	1.912	1.891	1.857	1.815	1.869
Bashkir ASSR	2.218	2.291	2.855	2.931	3.038	2.945	2.892	3.014	2.968
Udmurt ASSR	0.894	0.874	0.920	0.958	1.003	1.001	0.964	0.958	0.988
	22.353	20.549	25.355	25.485	25.639	25.097	24.840	25.056	25.457
4/ All CPR	29.98	28.31	33.39	33.51	33.97	33.17	32.75	34.04	33.11

5/EPR	1913	1928	1932	1933	1934	1935	1936	1937	1938
a) Urals									
Perm	1.159	0.994	1.132	1.226	1.330	1.357	1.323	1.370	1.295
Sverdlovsk	0.800	0.750	0.938	0.909	0.921	0.956	0.912	0.918	0.885
Chelyabinsk	2.138	2.412	3.001	2.880	2.643	2.653	2.793	3.045	3.015
	4.097	4.156	5.071	5.015	4.894	4.966	5.028	5.333	5.191
b)Siberia & F.E.									
Altai	2.219	3.184	2.515	3.069	3.309	3.201	3.233	3.338	3.465
Novosibirsk	1.369	2.143	1.953	2.123	2.568	2.552	2.614	2.688	2.734
Omsk	1.278	1.864	1.891	1.994	2.176	2.168	2.270	2.504	2.615
Bur-Mon.ASSR	0.185	0.193	0.251	0.255	0.285	0.300	0.313	0.334	0.349
Irkutsk	0.432	0.591	0.676	0.567	0.620	0.664	0.659	0.678	0.654
Krasnoyarsk	0.605	1.305	1.195	1.293	1.474	1.472	1.474	1.570	1.692
Chitinsk	0.274	0.374	0.348	0.406	0.459	0.447	0.459	0.493	0.543
Yakut ASSR	0.015	-	0.063	0.072	0.080	0.086	0.089	0.092	0.096
Primorsk Kr.	0.175	0.332	0.361	0.353	0.334	0.315	0.266	0.225	0.216
Khabarovsk	0.433	0.673	0.413	0.451	0.457	0.524	0.544	0.433	0.426
	6.983	10.659	9.666	10.583	11.762	11.729	11.921	12.355	12.863
c)Kazakhstan	3.913	3.827	4.496	4.264	4.354	4.655	4.836	5.154	5.329
5/ All EPR	14.99	18.64	19.23	19.86	21.01	21.35	21.79	22.84	23.38

All USSR	94.36	92.17	99.70	101.55	104.68	103.44	102.44	104.45	102.41

Source 2

All grains (seven types) production in mln tons from Selskoe Khozyaistvo Rossii v XX vek M.1923, N.P. Oganovsky and N.D. Kondratiev (editors) pp 102-113

Region	1913	1916	1917	1920	1921
1/NCR					
a)N. and NW.					
Sev.R.	0.567	0.584		0.331	0.371
Prioz.R	1.247	1.157		0.598	0.972
	1.814	1.741		0.929	1.343
b)C.Ind.R.	2.760	2.270		1.238	1.458
c)BSSR	2.582	2.732		1.172	1.833
1/All NCR	7.156	6.743		3.339	4.634
2/SCR					
3/SPR					
a)Ukraine S.W.and MaloRossiya	11.334	10.848			4.729
Novorossisk	14.327	11.703			2.258
	25.661	22.551			6.987
b)N.Caucasus	7,457	2.015			1.401
3/All SPR	33.118	24.566		(8.0)	8.388
4/CPR					
a)C.Ch.Zem	8.912	10.072		3.106	4.065
b)Volga					
N.Volga	4.379	2.473		0.679	0.284
Sr.Volga	8.829	7.416		3.366	1.751
	13.208	9.889		4.045	2.035
4/AllCPR	22.120	19.961		7.151	6.100
5/EPR					
a)Urals	4.863	4.289		1.962	1.572
b)Siberia	4.495			2.861	2.909
c)Kazakstan	3.063			1.132	1.443
5/All EPR	12.421	(11.0)		5.955	5.924
USSR					
All less SCR	74.82	62.27		24.45	25.05

Grain production 1909/13, 1916, 1917 and 1920-1922 from Trudy TsSU, Tom XVIII, M.1924, pp. 131-132.

	1909/13	1916	1917	1920	1921	1922
1. NCR						
Krainyi Sever	0.537	0.512	0.494	0.360	0.351	0.385
Priozernyi	1.113	1.060	1.161	0.667	0.881	0.774
Moskov. Prom.	2.890	2.310	1.713	1.571	1.588	2.008
Belorusskii	2.324	2.388	2.079	1.191	1.737	1.837
1. All NCR	6.864	6.270	5.447	3.789	4.557	5.004
2. SCR	-	-	-	-	-	-
3. SPR						
UkSSR	18.189	18.214	17.888	12.588	10.373	12.169
Yugo Vostok	9.472	5.693	6.165	3.645	2.135	3.719
3. All SPR	27.661	23.907	24.053	16.233	12.508	15.888
4. CPR						
Tsent Zemledel.	10.400	10.029	7.589	3.865	4.215	6.314
Nizhne Volzhskii	7.181	5.130	3.359	2.121	0.799	2.351
4. All CPR	17.581	15.159	10.948	5.986	5.014	8.665
5. EPR						
Urals	6.759	6.320	5.782	3.395	1.936	3.430
Zap. Sibir	2.755	3.007	5.568	3.311	2.460	2.029
Vost. Sibir	0.556	0.931	0.800	0.709	0.477	0.477
Stepnoi Krai	0.891	1.448	2.297	0.690	0.717	0.734
5. All EPR	10.961	11.706	14.427	8.105	5.590	6.670
All USSR less SCR	63.067	57.042	54.875	34.113	27.669	36.227
NCR	6.864	6.270	5.447	3.789	4.557	5.004
All PR	56.203	50.772	49.428	30.324	23.112	31.223

Sources 3b and 3c

All grains production in mlns of tons from T.udy TsSU, Tom VIII, vyp.4 and 5, M.1924

REGION	1920 no corr.	1920 corr.	1921 no corr	1921 corr.	1922 no corr.	1922 corr.	1923 no corr.	1923 corr.	1923 adj. no corr.	1923 adj. corr.
1/NCR										
a)N and NW Sov.R	0.320	0.361	0.325	0.367	0.349	0.394	0.284	0.322		
Prioz.R.	0.558	0.630	0.741	0.837	0.649	0.733	0.601	0.679		
	0.878	0.991	1.066	1.204	0.998	1.127	0.885	1.001		
b)C.Ind.R Moscow Ind.R.	1.875	2.128	2.282	2.590	2.757	3.130	2.094	2.342	2.564	2.882
c)BSSR	0.802	0.906	1.084	1.226	1.076	1.215	1.043	1.168		
1/All NCR	3.555	4.025	4.432	5.020	4.831	5.472	4.022	4.511	4.492	5.051
2/SCR										
a)ZSFSR										
b)C.Asia										
2/all SCR										
3/SPR										
a)Ukraine	11.112	13.345	8.876	10.528	10.462	12.478	11.167	13.426		
b)N.Caucasus South-East	2.641	3.167	1.507	1.796	2.640	3.147	2.633	3.253		
3/All SPR	13.753	16.512	10.383	12.324	13.102	15.625	13.800	16.679	13.800	16.679

Region	1920 no corr	1920 corr	1921 no corr	1921 corr	1922 no corr	1922 corr	1923 no corr	1923 corr	1923 adj. no corr.	1923 adj. corr.
4/CPR										
a)C.Ch.Zem Ts.Zemledel.	2.743	3.273	2.952	3.515	4.512	5.379	3.871	4.754		
b)Volga										
N.Volga	0.461	0.583	0.188	0.240	0.689	0.874	0.624	0.900		
Sr.Volga	0.956	1.179	0.580	0.713	1.188	1.458	1.271	1.636		
Bashkir ASSR	0.580	0.717	0.162	0.201	0.679	0.841	0.602	0.795		
Volga Kamski	1.635	2.001	0.778	0.912	1.545	1.134	1.693	2.076	1.223	1.536
	3.682	4.480	1.708	2.066	4.101	4.307	4.190	5.407	3.720	4.867
4/All CPR	6.425	7.753	4.660	5.581	8.613	9.686	8.061	10.161	7.591	9.621
5/EPR										
a)Urals	1.747	2.078	1.055	1.243	1.341	1.586	1.263	1.562		
b)Siberia	2.883	3.415	2.277	2.695	1.894	2.243	1.766	2.190		
c)Kazakstan Kirgiz.SSR	0.534	0.792	0.651	0.803	0.733	0.920	0.334	0.497		
5/All EPR	5.264	6.285	3.983	4.742	3.968	4.749	3.363	4.249	3.363	4.769
ALL USSR										
ALL USSR (less SCR)	28.996	34.577	23.457	27.658	30.513	36.223	29.244	35.594	29.244	35.594

All Grains gross production in mln tons from Abrege des donnees statistiques de l'URSS, M.1925, p 54-61

1/ NCR	1916	1923	1924	1925
a) N.& NW.				
Nord extreme	0.103	0.085	0.104	0.110
Nord	0.475	0.339	0.516	0.565
Nord-Oest	1.117	0.915	1.043	1.211
Oest	1.213	1.134	1.223	1.409
	2.908	2.472	2.886	3.295
b) C.Ind R.				
Moscow Ind.R.	2.695	2.696	3.278	3.178
c) BSSR	1.433	1.347	1.314	1.498
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
1/ All NCR	7.04	6.52	7.48	7.97

2/ SCR	1916	1923	1924	1925
a) ZSFSR			1.355	1.551
b)C. Asia				
Turkestan			1.631	1.715
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
2/ All SCR			2.99	3.27

3/ SPR	1916	1923	1924	1925
a) Ukraine & Crimea				
Ukraine	16.231	15.591	12.040	18.911
Crimea ASSR	0.637	0.222	0.119	0.524
	16.868	15.813	12.159	19.435
b)N.Caucasus & Dag				
N.Caucasus	6.961	4.586	3.396	8.382
Dagestan ASSR				
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
3/ All SPR	23.85	20.40	15.56	27.82

4/ CPR	1916	1923	1924	1925
a)C.Ch-Zem				
C.Agri.Reg	8.568	7.785	4.927	6.825
b) Volga				
N.Volga	0.039	0.018	0.004	0.048
Volga	4.704	3.031	1.668	4.649
Volga-Kama	3.910	1.906	2.877	3.344
Bashkir ASSR	1.876	0.932	1.178	1.750
	10.529	5.887	5.727	9.791
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
4/ All CPR	19.10	13.67	10.65	16.62

5/ EPR	1916	1923	1924	1925
a) Urals	3.790	2.344	3.552	3.956
b) Siberia & FE.				
Siberia	5.499	3.742	4.503	5.561
c) Kazakstan				
Kirgizia ASSR	2.216	0.681	0.961	1.430
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
5/ All EPR	11.51	6.77	9.02	10.95

All USSR			45.69	66.62
All USSR less SCR	61.49	47.35	42.70	63.35

Source 4

Source 5

Grain production in mln tons from Ezhegodnik Khlebooborota, No.1, M.1928, pp. 83-5.

Region	1924	1925	1926	1927
1/NCR				
All NCR Excl.BSSR	8.777	9.505	9.817	10.117
BSSR	1.623	1.790	1.701	1.871
1/All NCR	10.400	11.295	11.518	11.988
2/SCR				
a)ZSFSR	1.528	1.724	1.844	1.770
b)C.Asia	1.384	1.144	1.294	1.104
2/All SCR	2.912	2.868	3.138	2.874
3/SPR				
a)Ukraine				
Ukraine	11.454	17.760	17.073	18.611
Crimea ASSR	0.247	0.637	0.448	0.451
	11.701	18.397	17.521	19.062
b)N.Caucasus	4.312	9.133	6.704	5.891
3/All SPR	16.013	27.530	24.225	24.953
4/CPR				
a)C.Ch.Zem	3.067	5.567	6.027	7.920
b)Volga				
N.Volga	0.671	2.931	3.505	2.818
Sr.Volga	4.192	5.387	7.628	5.202
Volga-Kamskii R.	3.655	3.922	5.022	3.922
	8.518	12.240	16.155	11.942
4/ All CPR	11.585	17.807	22.182	19.862
5/EPR				
a)URals	4.105	4.443	4.823	4.205
b)Siberia				
Siberia Krai	4.586	5.143	5.898	6.216
Bur.Mong.ASSR				
Yakut. ASSR	0.825	0.999	1.182	1.289
D.Vostok Krai				
	5.411	6.142	7.080	7.505
c)Kazakstan (incl.Kirgizia)	1.152	2.346	3.315	1.988
5/All EPR	10.668	12.931	15.218	13.698
USSR	51.570	72.430	76.282	74.129

All grains gross prodn. in mln tons from Stat.Sprav. SSSR za 1928,M.1929 pp 178-203

1/NCR	1925	1926	1927	1928
a) N.&NW				
Sev.Raion	0.765	0.781	0.765	0.773
Leningrad Ob	1.475	1.516	1.456	1.351
Karelia ASSR	1.666	1.533	1.529	1.473
Zap.Raion				
	3.906	3.830	3.750	3.597
b) C.Ind.R.	5.566	6.013	5.915	5.476
c) BSSR	1.859	1.694	1.772	1.731
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
1/ All NCR	11.33	11.54	11.44	10.80

2/ SCR	1925	1926	1927	1928
a) ZSFSR	1.771	1.908	1.606	1.818
b) C.Asia				
Uzbekistan	1.288	1.179	1.093	1.466
Tadzhikistan	0.314	0.275	0.329	0.413
Kirgiz ASSR				
	1.602	1.454	1.422	1.879
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
2/ All SCR	3.37	3.36	3.03	3.70

3/ SPR	1925	1926	1927	1928
a) Ukraine & Crimea				
Ukraine	16.866	16.685	17.741	12.409
Crimea ASSR	0.601	0.410	0.419	0.317
	17.467	17.095	18.160	12.726
b) N.Caucasus & Dag				
N.Caucasus	8.457	6.159	5.482	5.068
Dagestan ASSR	0.182	0.207	0.265	0.188
	8.639	6.366	5.747	5.256
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
3/ All SPR	26.11	23.46	23.91	17.98

4/cpr	1925	1926	1927	1928
a) C.Ch-Zem	5.812	5.923	7.394	5.627
b) Volga				
N.Volga Krai	2.811	3.138	2.688	3.484
Sr.Volga Krai	3.731	5.819	3.538	5.437
Tatar ASSR	1.688	2.259	2.159	2.211
Chuvash ASSR	1.717	2.038	1.511	2.208
Bashkir ASSR	2.233	2.551	2.312	2.732
Vyatskii R				
	12.180	15.805	12.207	16.072
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
4/ All CPR	17.99	21.73	19.60	21.70

5/ EPR	1925	1926	1927	1928
a) Urals	4.603	5.103	4.151	4.890
b) Siberia & FE				
Sibir Krai	5.870	6.822	6.240	7.830
Bur.Mong.ASSR	0.205	0.241	0.296	0.240
D.Vostok Krai	0.761	0.923	1.017	0.892
	6.836	7.986	7.553	9.012
c)Kazakstan	2.419	3.387	2.039	3.457
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
5/ All EPR	13.86	16.48	13.74	17.36

All USSR	72.66	76.56	71.72	71.54

Source 6

Source 8b

All grains gross production in mln tons from Selskoye Khozyaistvo SSSR, M. 1935, pp. 270–271

1/ NCR	1927	1928	1929	1930	1931	1932	1933	1934
a) N.&NW.								
Sev. Krai.		0.690	0.886	0.783	0.868	0.758	(0.972)	(1.207)
Karelia ASSR				0.044	0.049	0.049	(0.049)	(0.055)
Leningrad Ob.		1.099	1.022	1.098	1.094	1.071	(1.228)	(1.477)
Zap. Ob.		2.460	2.506	2.973	2.159	2.188	(2.566)	(2.688)
		4.249	4.414	4.898	4.180	4.066	(4.815)	(5.422)
b) C. Ind. R.								
Moscow		2.666	3.102	3.104	3.147	3.347	(3.733)	(4.067)
Ivanovsk		1.253	1.231	1.371	1.298	1.273	(1.637)	(1.765)
Gorky (30%)		1.291	1.240	1.233	1.169	1.274	(1.516)	(1.547)
		5.210	5.573	5.708	5.614	5.894	(6.886)	(7.379)
c) BSSR		1.769	1.893	1.961	1.689	1.694	(2.271)	(2.390)
1/ All NCR		11.23	11.88	12.57	11.48	11.65	(13.97)	(15.19)

2/SCR	1927	1928	1929	1930	1931	1932	1933	1934
a) ZSFSR		1.824	1.714	1.925	1.666	1.346	(1.731)	(1.867)
b) C. Asia								
Turkmenia				0.855	0.782	0.605	(0.743)	(1.392)
Uzbekistan		1.483	1.394	0.198	0.187	0.156	(0.133)	(0.202)
Tadzhikistan				0.541	0.605	0.383	(0.360)	(0.433)
Kirgiz ASSR		0.492	0.624	0.476	0.724	0.551	(0.632)	(0.808)
Karakalp ASSR		[0.02]	[0.02]	[0.02]	0.024	0.022	(0.038)	(0.052)
		1.995	2.038	2.090	2.322	1.717	(1.906)	(2.887)
2/ All SCR		3.82	3.75	4.02	3.99	3.06	(3.64)	(4.75)

All grains gross production in mln tons from Selskoye Khozyaistvo SSSR, M1935

3/ SPR	1927	1928	1929	1930	1931	1932	1933	1934
a) Ukraine & Crimea								
Ukraine		13.885	18.702	22.726	18.346	14.657	(22.297)	(12.335)
Crimea ASSR		0.313	0.486	0.352	0.598	0.617	(0.845)	(0.602)
		14.198	19.188	23.078	18.944	15.274	(23.142)	(12.937)
b) N. Caucasus & Dag								
N. Caucasus k (old)		5.128	5.441	6.698	7.178	5.864	(8.106)	
N. Caucasus k (new)								(4.100)
Azov Chernom k								(3.291)
		5.128	5.441	6.698	7.178	5.864	(8.106)	(7.391)
3/ ALL SPR		19.33	24.63	29.78	26.12	21.14	(31.25)	(20.33)

4/ CPR	1927	1928	1929	1930	1931	1932	1933	1934
a) C. Ch-Zem								
C. Ch-Zem (old)		5.876	7.043	7.373	6.635	7.074	(7.436)	
Voronezh								(4.234)
Kursk								(2.905)
		5.876	7.043	7.373	6.635	7.074	(7.436)	((7.139))
b) Volga								
N. Volga K (old)		3.777	3.267	3.941	2.855	3.239	(4.205)	
Sr. Volga K(old)		5.288	3.402	4.288	3.331	4.533	(5.464)	(7.070)
Stalingrad K								(1.570)
Saratov K								(2.302)
Tatar ASSR		1.710	1.317	1.548	1.748	2.109	(2.576)	(2.754)
Bashkir ASSR		2.112	1.445	2.343	1.262	1.789	(2.468)	(3.345)
Gorky (70%)		3.012	2.894	2.877	2.727	2.973	(3.537)	(3.609)
		15.899	12.325	14.997	11.923	14.643	(18.25)	((20.56))
4/ All CPR		21.78	19.37	22.37	18.56	21.72	(25.69)	(27.70)

All grains gross production in mln tons from Selskoye Khozyaistvo SSSR, M.1935

5/ EPR	1927	1928	1929	1930	1931	1932	1933	1934
a) Urals								
Urals (old)		4.936	3.627	4.716	1.705	3.552	(4.231)	
Sverdlovsk								(2.298)
Chelyabinsk								(2.851)
Ob-Irtish								(0.284)
		4.936	3.627	4.716	1.705	3.552	(4.231)	(5.383)
b) Siberia & FE								
Zapsib Krai		7.721	5.227	5.416	3.199	4.179	(6.664)	(8.615)
Vostsib Krai			0.243	1.709	1.721	1.632	(1.687)	(2.256)
Yakut ASSR				0.030	0.046	0.054	(0.056)	(0.038)
D.Vostok Krai		0.866	1.011	0.508	0.491	0.515	(0.607)	(0.698)
		8.587	6.481	7.663	5.457	6.380	(9.014)	(11.607)
c) Kazak ASSR		3.670	2.025	2.460	2.198	2.391	(2.070)	(4.456)
5/All EPR		17.19	12.14	14.84	9.36	12.32	(15.32)	(21.45)
All USSR		73.32	71.74	83.54	69.48	69.87	(89.80)	(89.40)

Source 8c

All grain production in mln tons from Sotzialisticheskoe Stroitelstvo SSSR, M.1936, p.344

Region	1934	1935
1/NCR		
a)Nand NW		
Sev Krai	1.207	1.105
Karelia ASSR	0.050	0.046
Leningrad	1.298	1.136
Kalinin 1	1.421	1.429
Zap.Ob.	2.079	2.090
	6.055	5.806
b)C.Ind.		
Moscow	3.434	3.223
Ivanov	1.765	1.559
Gorky	2.616	3.001
	7.815	7.783
c)BSSR	2.390	1.916
	XXXXXXXXXXXXXXXXX	
1/All NCR	16.260	15.505
2/SCR		
a)ZSFSR	1.867	1.857
b)C.Asia		
Uzbek ASSR	1.392	0.861
Turkmen SSR	0.202	0.175
Tadzh.SSR	0.433	0.442
Kirgiz ASSR	0.860	0.681
	2.887	2.159
	XXXXXXXXXXXXXXXXX	
2/All SCR	4.754	4.016
3/SPR		
a)Ukraine		
Uk.SSR	12.335	17.660
Crimea	0.602	0.784
	12.937	18.444
b)N.Caucasus		
S.Kavkaz Kr.	3.291	2.589
Azov Chern.Kr	4.100	4.954
	7.391	7.543
	XXXXXXXXXXXXXXXXX	
3/All SPR	20.328	25.987

Region	1934	1935
4/CPR		
a)C.Ch.Z		
Voronezh	4.234	4.259
Kursk	2.905	3.139
	7.139	7.398
b)Volga		
Stalingrad Kr.	1.570	1.543
Saratov Kr.	2.302	2.408
Kuibyshev Kr.	4.606	4.334
Bashkir ASSR	3.215	3.248
Orenburg	2.653	2.754
Kirov Kr.	2.736	3.257
Tatar ASSR	2.754	3.136
	19.836	20.680
	XXXXXXXXXXXXXXXXX	
4/All CPR	26.975	28.078
5/EPR		
a)Urals		
Sverdlovsk	2.102	2.107
Chelyabinsk	2.419	2.482
	4.521	4.589
b)Siberia		
Omsk	2.745	2.105
Zap.Sib.Kr.	3.543	3.666
Krasnoyarsk Kr.	1.911	1.191
Vost Sib Krai	1.388	0.945
Yakut ASSR	0.038	0.062
D.Vostok Krai	0.698	0.779
	12.323	8.748
	XXXXXXXXXXXXXXXXX	
c)Kazakstan	4.244	3.176
	XXXXXXXXXXXXXXXXX	
5/All EPR	21.088	16.513
All USSR	89.403	90.104

v) Summaries of basic regrouped data

All grains sown area by regions in mln.hectares from various sources

	NCR	SCR	SPR	CPR	EPR	USSR	USSR -SCR
1. 1916 all	12.08	2.98	27.74	28.28	15.98	87.05	
peas.	11.40	2.91	23.89	26.42	15.94	80.56	
1923	11.01	2.83	20.82	17.85	9.05	61.57	
1924	11.32	2.75	22.41	18.96	10.40	65.83	
1925	11.60	2.65	23.68	20.33	11.87	70.12	
1926	12.11	2.81	26.06	22.09	14.14	77.21	
1927	12.56	2.81	26.64	23.23	15.07	80.31	
2. 1913	9.30		34.10	26.96	16.95		87.31
1916	8.04		29.32	25.00	17.69		80.06
1917	7.87		28.65	25.57	18.15		80.23
1920	5.74		21.61	18.78	15.94		62.07
1921	5.76		21.28	15.03	12.36		54.43
3a.1909/13	9.49		32.88	23.98	17.38		83.74
1916	8.17		29.26	22.21	20.07		79.71
1917	8.29		29.08	22.60	19.87		79.84
1920	6.03		23.14	16.56	17.86		63.59
1921	6.61		22.68	14.87	14.18		58.33
1922	7.29		17.35	13.52	9.50		47.66
3c.1933	7.79		20.64	17.77	10.97		57.23
3b.1920	6.64		22.36	21.01	13.60		63.61
1921	7.38		22.02	18.66	10.25		58.31
1922	8.15		16.77	15.87	6.86		47.65
3c.1925							
4. 1916	10.29		29.15	30.64	16.01		86.10
1923	10.03		23.19	22.80	10.70		66.72
1924	10.62	3.13	24.57	24.05	12.35	74.72	71.59
1925	10.87		25.95	24.93	13.82		75.57
5. 1924	13.58	3.19	26.63	24.29	14.73	81.82	
1925	13.87	3.04	28.16	25.93	15.37	86.37	
1926	14.26	3.28	30.63	27.69	17.29	93.14	
1927	14.58	3.29	31.07	28.43	18.23	95.60	
6. 1925	14.07	3.63	27.06	26.14	16.25	87.16	
1926	14.42	3.73	29.30	27.67	18.32	93.48	
1927	14.59	3.84	29.65	28.08	19.04	95.20	
1928	13.84	3.94	27.26	28.85	18.56	92.45	
7. 1927	14.29	3.86	30.48	27.64	18.46	94.73	
& 1928	13.42	4.04	27.64	28.27	18.81	92.17	
8a.1929	13.86	4.31	29.20	28.81	19.82	96.01	
9. 1913	13.09	4.56	31.74	29.98	14.99	94.36	
1928	13.50	4.08	27.65	28.31	18.64	92.17	

All grains production by region from various sources in mln.tons

Source	Year	NCR	SCR	SPR	CPR	EPR	USSR	USSR -SCR
2	1913	7.16	-	33.12	22.12	12.42		74.82
	1916	6.74	-	24.57	19.96	(11.0)		62.27
	1917	-	-	-	-	-		-
	1920	3.34	-	(8.00)	7.15	5.96		24.45
	1921	4.63	-	(8.39)	6.10	5.92		25.05
3a	1909/13	6.86	-	27.66	17.58	10.96		63.07
	1916	6.27	-	23.91	15.16	11.71		57.04
	1917	5.45	-	24.05	10.95	14.43		54.88
	1920	3.79	-	16.23	5.99	8.11		34.11
	1921	4.56	-	12.51	5.01	5.59		27.67
	1922	5.00	-	15.89	8.67	6.67		36.23
3b	1920	3.56	-	13.75	6.43	5.26		29.00
no corr-ectn.	1921	4.43	-	10.38	4.66	3.98		23.46
	1922	4.83	-	13.10	8.61	3.97		30.51
	1923	4.49	-	13.80	7.59	3.36		29.24
	1920	4.03		16.51	7.75	6.29		34.58
with corr-ectn.	1921	5.02		12.32	5.58	4.74		27.67
	1922	5.47		15.63	9.69	4.75		36.23
	1923	5.05		16.68	9.62	4.25		35.59
4	1916	7.04		23.85	19.10	11.51		61.49
	1923	6.52		20.40	13.67	6.77		47.35
	1924	7.48	2.99	15.56	10.65	9.02	45.69	42.70
	1925	7.97	3.27	27.82	16.62	10.95	66.62	63.35
5	1924	10.40	2.91	16.01	11.59	10.67	51.57	
	1925	11.30	2.87	27.53	17.81	12.93	72.43	
	1926	11.52	3.14	24.23	22.18	15.22	76.28	
	1927	11.99	2.87	24.95	19.86	13.70	74.13	
6	1925	11.33	3.37	26.11	17.99	13.86	72.66	
	1926	11.54	3.36	23.46	21.73	16.48	76.56	
	1927	11.44	3.03	23.91	19.60	13.74	71.72	
	1928	10.80	3.70	17.98	21.70	17.36	71.54	
7	1928	11.23	3.80	19.33	21.78	17.22	73.32	
& 8a.	1929	11.88	3.73	24.63	19.37	11.90	71.74	

All grain yields by region in tsentners per hectare from various sources

Source	Year	NCR	SCR	SPR	CPR	EPR	USSR	USSR -SCR
2	1913	7.7		9.7	8.2	7.3		8.6
	1916	8.4		8.4	8.0	6.2		7.8
	1920	5.8		2.3*	3.8	3.7		3.9
	1921	8.1		3.9*	4.1	4.8		4.6
3a	1909/ 13	7.2		8.4	7.3	6.3		7.5
	1916	7.7		8.2	6.8	5.8		7.2
	1917	6.6		8.3	4.8	7.3		6.9
	1920	6.3		7.0	3.6	4.5		5.4
	1921	6.9		5.5	3.4	3.9		4.7
	1922	6.9		9.2	6.4	7.0		7.6
3c	1923							
3b	1920	5.4		6.2	3.1	3.9		4.6
	1921	6.0		4.7	2.5	3.9		4.0
no corr-	1922	5.9		7.8	5.4	5.8		6.4
ectn.	1923	(5.1)		(7.2)	(3.9)	(4.1)		(5.2)
	1920	6.1		7.4	3.7	4.6		5.4
with	1921	6.8		5.6	3.0	4.6		4.7
corr-	1922	6.7		9.3	6.1	6.9		7.6
ectn.	1923	(5.7)		(8.7)	(5.0)	(5.2)		(6.4)
4	1916	6.8		8.2	6.2	7.2		7.0
	1923	6.5		8.8	6.0	6.3		7.1
	1924	7.0	9.6	6.3	4.4	7.3	6.1	
	1925	7.3		10.7	6.7	7.9		8.4
5	1924	7.7	9.1	6.0	4.8	7.2	6.3	
	1925	8.1	9.4	9.8	6.9	8.4	8.4	
	1926	8.1	9.6	7.9	8.0	8.8	8.2	
	1927	8.2	8.7	8.6	7.6	7.5	7.8	
6	1925	8.1	9.3	9.6	6.9	8.5	8.3	
	1926	8.0	9.0	8.0	7.9	9.0	8.2	
	1927	7.8	7.9	8.1	7.0	7.2	7.5	
	1928	7.8	9.4	6.6	7.5	9.4	7.7	
7	1928	8.4	9.4	7.0	7.7	9.2	8.0	
& 8a	1929	8.6	8.6	8.4	6.7	6.0	7.5	

Uncorrected basic sown area data

	NCR	SCR	SPR	CPR	EPR	USSR
1909/13	14.1	2.93	31.1	30.6	13.9	92.6
1913	14.3	3.29	31.9	30.9	16.0	96.4
1916	12.1	3.0	27.7	28.3	16.0	87.1
1917	12.3	(3.0)	27.5	28.8	15.8	87.4
1920	8.9	(2.8)	21.9	21.1	14.2	68.9
1921	9.8	(2.8)	21.5	18.9	11.3	64.3
1922	10.8	(2.8)	16.4	17.2	7.6	54.8
1923	11.0	2.8	20.8	17.9	9.1	61.6
1924	11.3	2.8	22.4	19.0	10.4	65.9
1925	11.6	2.7	23.7	20.3	11.9	70.1
1926	12.1	2.8	26.1	22.1	14.1	77.2
1927	12.6	2.8	26.6	23.2	15.1	80.3
1928						
1929						

Sources: For uncorrected sown area regional table 1916, 1923-27, A.Gayster (ed.) ibid.
1909/13, 1916, 1917, 1920-22, Trudy TsSU, Tom XVIII, M.1924 pp.22-5. 1913 from regrouped TsSK data see appendix p.44

Correction coefficients comparable with the late 1920s data on grain sown area

	NCR	SCR	SPR	CPR	EPR	USSR
1909/13	+10.0		+10.0	+10.0 (+34?)		
1913	+10.0		+10.0	+10.0	+10.0	
1916	+8.0	+8.0	+12.7	+11.8	+14.2	
1920	+19.0		+18.0	+30.8	+34.7	
1921	+19.5		+19.0	+31.8	+36.3	
1922	+20.5		+20.0	+32.8	+37.0	
1923	+19.5	+42.0	+19.3	+31.8	+36.3	
1924	+18.9	+40.0	+17.5	+30.9	+35.3	
1925	+18.8	+37.7	+17.5	+26.6	+32.7	
1926	+16.6	+37.5	+15.6	+23.3	+25.6	
1927	+13.8	+37.4	+14.4	+19.0	+22.5	
1928	?					
1929	?					

Sown area figures comparable with the late 1920s data, in mln. ha

1909/13	15.5	3.2	34.2	33.7	15.3	101.9
1913	15.7	3.2	35.1	34.0	17.6	105.6
1916	13.1	3.2	31.3	31.6	17.9	97.1
1920	10.6	(3.2)	25.8	27.6	18.6	85.8
1921	11.7	(3.2)	25.6	24.1	14.9	80.3
1922	13.0	(3,2)	19.7	22.8	10.1	68.8
1923	13.2	4.0	24.8	23.5	12.3	77.9
1924	13.5	3.9	26.5	24.8	14.1	82.7
1925	13.8	3.7	27.8	25.7	15.8	86.7
1926	14.1	3.9	30.1	27.2	17.8	93.1
1927	14.3	3.9	30.5	27.6	18.5	94.7
1928	13.4	4.0	27.6	28.3	18.8	92.2
1929	13.9	4.3	29.2	28.8	19.8	96.0

Correction coefficients comparable with early 1920s data on grain sown area:

	NCR	SCR	SPR	CPR	EPR	USSR
1909/13	0		0	0	0	0
1913	0		0	0	0	0
1916	19	(10)	3	16	0	10
1920	16	(15)	14	24	2	15
1921	18	(16)	16	22	4	16
1922	19	(17)	16	20	23	17
1923	21.0	(13)	11.0	11.0	19.0	13.0
1924	(19)	(12)	10	(10)	(17)	
1925	(18)	(11)	9	(9)	(15)	
1926	(17)	(10)	8	(8)	(14)	
1927	(14)	(10)	7	(7)	(12)	
1928						
1929						

Sown area figures comparable with early 1920s data, in mln hectare

1909/13	14.1	2.9	31.1	30.6	13.9	92.6
1913	14.3	3.3	31.9	30.9	16.0	96.4
1916	14.4	3.3	28.5	32.8	16.0	95.0
1920	10.3	3.2	25.0	26.2	14.5	79.2
1921	11.6	3.2	19.4	23.1	11.8	69.1
1922	12.9	3.2	19.0	20.6	9.3	65.0
1923	13.3	3.2	23.1	19.9	10.8	70.3
1924	13.4	3.2	24.6	20.9	12.2	74.3
1925	13.7	3.1	25.8	22.1	13.7	78.4
1926	14.2	3.1	28.2	23.9	16.1	85.5
1927	14.4	3.1	28.5	24.8	16.9	87.7
1928						
1929						

Regional yield series in

a) comparable with early 1920s data

	NCR	SCR	SPR	CPR	EPR	USSR
1909/13	6.4		8.4	6.7	7.8	7.5
1913	6.8					
1916	6.8		8.2	6.2	7.2	7.0
1920	7.0		7.5	4.4	5.6	6.0
1921	7.8		5.7	3.6	5.6	5.2
1922	7.6		9.4	7.3	8.4	8.4
1923	6.5		8.8	6.0	6.3	7.1
1924	7.0	9.6	6.3	4.4	7.3	6.1
1925	7.3		10.7	6.7	7.9	8.4
1926	7.3		8.0	7.7	8.3	
1927	7.2		8.9	7.1	6.8	
1928	7.3		7.5	7.4	8.6	
1929						

b) comparable with late 1920s data

1909/13	7.0		8.0	7.3	7.8	
1913						
1916	7.5		7.8	6.8	7.2	7.2
1920	7.7		7.2	4.8	4.7	
1921	8.6		5.4	3.9	4.7	
1922	8.4		9.0	7.9	7.0	
1923	7.2		8.4	6.5	6.3	7.3
1924	7.7	9.1	6.0	4.8	7.2	6.3
1925	8.1	9.4	9.7	6.9	8.5	8.3
1926	8.1	9.3	8.0	7.9	8.9	8.2
1927	8.0	8.3	8.1	7.3	7.3	7.5
1928	8.1	9.4	6.8	7.6	9.3	7.9
1929	8.6	8.6	8.4	6.7	6.0	7.5

Regional Grain production data in mln,tons

a) comparable with early 1920s data

	NCR	SCR	SPR	CPR	EPR	USSR
1909/13	9.0	(2.6)	26.1	20.5	10.8	(69.0)
1913						
1916	9.8	(2.8)	23.4	20.3	11.5	67.8
1920	7.2	(2.8)	18.8	11.5	8.1	48.4
1921	9.0	(2.8)	11.1	8.3	6.6	37.8
1922	9.8	(2.8)	17.9	15.0	7.8	53.3
1923	8.6	(3.0)	20.3	11.9	6.8	50.6
1924	9.4	(3.1)	15.5	9.2	8.9	46.1
1925	10.0	(3.1)	27.6	14.8	10.8	66.3
1926	10.4	(3.1)	24.8	18.4	13.4	70.1
1927	10.4	(3.1)	25.4	17.6	11.5	68.0
1928						
1929						

b) comparable with late 1920s data

1909/13	10.9	(3.2)	27.4	24.6	11.9	78.0
1913						
1916	9.8	(3,2)	24.4	21.3	12.9	71.8
1920	8.2	(3,2)	18.6	13.2	8.7	51.9
1921	10.1	(3.2)	13.8	9.7	7.0	43.8
1922	10.9	(3.4)	17.7	18.0	7.1	57.1
1923	9.5	(3.4)	20.8	15.3	7.8	56.8
1924	10.4	3.5	15.9	11.9	10.2	51.9
1925	11.2	3.5	27.0	17.7	13.4	72.8
1926	11.4	3.6	24.1	21.5	15.8	76.4
1927	11.4	3.2	24.7	20.1	13.5	72.9
1928	10.9	3.8	18.8	21.5	17.5	72.5
1929	11.9	3.7	24.5	19.3	11.9	71.3

4/ Grain production data by grain

a) Pre-revolutionary grain production data by grain:

i) Regional data 1870's - 1890's Nifontov.

ii) Data for 50 gubernii of European Russia, 1883 - 1915.

iii) Regional data 1901/5, 1906/10, 1911/15, 1916, 1917, Kondratiev and Oganovsky.

b) Post revolutionary grain production by grain

Grain production sowings and yields in 50 Gubernia of European Russia by grain in mln. chetverts, sam and mln. tons

	Rye	Wheat	Oats	Barley	Buckwheat	Other	All	Of Other Millet	Of Other Maize
Sowings in mln. chetverts									
1871-75	23.19	8.61	22.75	4.75	3.77	3.79	66.86	-	-
1876-80	23.52	8.57	22.95	4.76	3.71	3.50	67.00	-	-
1881-85	24.02	8.35	25.29	5.07	3.66	2.40	68.78	0.58	0.12
1886-90	24.24	8.35	26.20	5.08	3.47	1.91	69.25	0.57	0.13
1891-95	23.66	8.97	25.46	5.89	2.36	2.07	68.43	0.59	0.18
1896-1900	23.83	10.45	27.07	6.97	1.85	2.34	72.71	0.59	0.18
Production in mln. chetverts									
1871-75	95.36	28.49	72.58	16.41	11.91	13.02	237.77	-	-
1876-80	92.02	28.65	81.49	17.98	12.40	16.60	249.13	-	-
1881-85	103.93	37.51	85.20	21.67	11.36	14.27	273.94	6.80	2.95
1886-90	112.04	37.83	92.79	24.81	10.39	16.42	294.57	8.66	3.05
1891-95	115.03	48.80	93.94	35.86	7.41	18.91	319.96	9.08	4.48
1896-1900	124.53	53.14	106.33	37.64	6.73	22.69	351.06	11.12	4.96
Yield in sam									
1871-75	4.11	3.31	3.19	3.45	3.16	3.44	3.56	-	-
1876-80	3.91	3.34	3.55	3.78	3.34	4.74	3.72	-	-
1881-85	4.33	4.49	3.37	4.27	3.10	5.95	3.98	11.72	24.58
1886-90	4.62	4.53	3.54	4.88	3.08	8.60	4.25	15.19	23.46
1891-95	4.86	5.44	3.69	6.09	3.14	9.14	4.68	15.39	24.89
1896-1900	5.23	5.09	3.93	5.40	2.88	9.70	4.83	18.85	27.56
Production in tons									
1871-75	13.75	4.39	6.66	1.96	1.56	1.81	30.13	-	-
1876-80	13.26	4.41	7.47	2.15	1.62	2.31	31.24	-	-
1881-85	14.98	5.78	7.81	2.59	1.49	1.99	34.64	1.00	0.45
1886-90	16.15	5.82	8.51	2.97	1.40	2.29	37.14	1.28	0.47
1891-95	16.58	7.51	8.62	4.29	0.97	2.63	40.61	1.34	0.69
1896-1900	17.95	8.18	9.75	4.50	0.88	3.16	44.43	1.64	0.76
Conversion coefficients in tons/chetvert									
	0.144	0.154	0.092	0.120	0.131	0.139	0.126	0.147	0.152

Sources: A. S. Nifontov, Zernovoye proizvodstvo Rossii, M.1974 p253, 270

Sown area of 6 main grains in 50 Gubernii of European Russia in mln.hectares

	All grains	Rye	Winter Wheat	Spr-ing Wheat	All food grains	Oats	Barley	Millet	Buck-wheat	All non-food grains
1883	64.3	25.7	2.6	8.6	36.9	13.9	4.9	2.6	3.9	25.3
84	65.4	26.1	2.7	9.0	37.8	14.1	5.0	2.6	4.0	25.7
1885	65.6	26.2	2.7	9.0	37.9	14.1	5.0	2.6	4.0	25.7
86	64.5	26.2	2.7	9.0	37.9	14.0	5.0	2.6	4.0	25.6
87	65.6	26.2	2.7	9.0	37.9	14.2	5.0	2.6	3.9	25.7
88	65.6	26.1	7.7	9.0	37.8	14.1	5.0	2.6	4.0	25.7
89	65.4	26.2	2.8	9.0	38.0	13.7	5.0	2.6	3.9	25.2
1890	68.9	27.7	3.1	9.6	40.4	14.9	5.8	2.7	3.5	26.9
91	69.4	27.8	3.0	9.5	40.3	15.0	5.9	2.7	3.5	27.1
92	67.1	25.7	3.4	10.1	39.2	13.9	6.3	2.9	2.7	25.8
93	65.8	24.7	2.5	10.6	37.8	13.4	6.3	3.0	2.5	25.2
94	65.8	25.4	3.2	10.2	38.8	13.3	6.3	2.6	2.4	24.6
1895	64.9	25.0	3.1	9.8	37.9	13.8	6.4	2.4	2.3	24.9
96	68.5	25.8	3.1	11.0	39.9	14.4	6.8	2.4	2.4	26.0
97	68.7	25.1	3.0	11.5	39.6	14.6	7.0	2.5	2.4	26.5
98	68.5	24.9	3.1	11.6	39.6	14.4	7.1	2.5	2.3	26.3
99	70.1	25.5	3.0	12.5	41.0	14.6	7.1	2.7	2.3	26.7
1900	72.5	26.3	3.2	13.0	42.5	15.2	7.1	2.6	2.3	27.2
01	73.8	26.4	3.3	13.7	43.4	15.4	7.3	2.6	2.3	27.6
02	73.7	26.4	3.4	13.8	43.6	15.1	7.4	2.7	2.2	27.4
03	75.1	26.7	3.5	14.2	44.4	15.2	7.8	2.8	2.2	28.0
04	76.5	26.3	3.4	15.1	44.8	15.3	8.1	2.8	2.2	28.4
1905	77.1	26.0	3.7	15.7	45.4	15.6	8.2	2.5	2.1	28.4
06	77.6	26.8	3.9	16.0	46.7	15.5	8.0	2.5	2.1	28.1
07	76.1	26.5	3.7	14.8	45.0	15.4	8.3	2.8	2.0	28.5
08	76.3	25.2	3.0	15.5	43.7	15.3	8.9	3.2	2.1	29.5
1909	76.7	25.7	3.4	15.7	45.0	15.2	8.9	2.8	2.1	29.0
1910	78.9	25.2	3.4	17.6	46.2	15.7	9.3	2.6	2.0	29.6
11	79.8	26.1	3.6	17.6	47.3	15.5	9.3	2.4	2.0	29.2
12	78.6	26.1	3.8	16.3	46.2	15.1	9.3	2.4	1.9	28.7
13	80.0	26.6	3.7	16.7	47.0	15.4	9.9	2.5	2.0	29.8
14	80.4	26.3	4.0	16.6	46.9	15.8	10.2	2.5	2.0	30.5

Source: V.M.Obukhov, 'Dvizheniye urozhaev v Evrop.Rossii v period 1883-1915gg.' in V.G.Groman (ed.) Vliyanie neurozhaev na narodnoye khozvaistvo Rossii, chast.1, M.1927, pp.2-5.

Production of grains in 50 Gubernii of European Russia in mln. tons

	All Grain	Rye	Winter Wheat	Spring Wheat	All Food Grain	Oats	Barley	Millet	Buckwheat	Other	All Non Food Grain
1883	33.95	12.96	1.38	4.25	18.59	8.73	2.80	1.33	1.43	1.07	15.36
84	37.32	16.40	2.04	4.81	23.25	7.76	2.81	1.20	1.27	1.03	14.07
1885	31.67	16.73	2.03	2.54	21.30	6.00	2.07	0.62	0.77	0.91	10.37
86	35.87	15.79	1.05	3.09	19.93	8.79	2.79	1.64	1.46	1.26	15.94
87	41.69	17.78	2.57	4.60	24.95	9.55	3.50	1.33	1.14	1.22	16.74
88	40.15	16.93	2.96	4.79	24.68	8.44	3.33	1.41	1.18	1.11	15.47
89	30.48	13.12	1.08	3.43	17.63	7.36	2.36	0.84	1.18	1.11	12.85
1890	36.86	16.12	2.05	3.39	21.56	8.37	3.45	1.37	0.84	1.27	15.30
91	28.76	11.94	1.53	2.84	16.31	6.60	2.96	0.93	0.76	1.20	12.45
92	34.46	14.14	1.77	4.50	20.41	6.78	3.69	1.55	0.88	1.15	14.05
93	48.03	17.09	2.10	7.49	26.68	10.37	6.47	2.18	0.97	1.36	21.35
94	48.65	20.39	2.79	6.45	29.63	10.19	5.16	1.19	0.81	1.67	19.02
1895	43.79	18.07	2.76	5.20	26.03	9.78	4.58	1.10	0.79	1.51	17.76
96	44.66	17.68	2.15	6.03	25.86	9.71	4.54	2.06	0.87	1.62	18.80
97	37.07	14.31	1.40	5.10	20.81	7.94	4.43	1.20	0.76	1.93	16.26
98	43.07	16.02	2.59	6.50	25.11	8.13	5.54	1.66	0.87	1.76	17.96
99	49.54	20.33	2.68	5.89	28.90	12.19	3.92	1.90	1.08	1.55	20.64
1900	48.32	20.94	2.05	6.64	29.63	10.80	4.08	1.44	0.81	1.56	18.69
01	41.81	17.16	3.31	5.40	25.87	7.66	4.12	1.35	0.69	2.12	15.94
02	56.55	20.47	3.99	8.62	33.08	11.73	5.99	2.58	1.24	1.93	23.47
03	52.55	20.26	3.48	8.89	32.63	9.44	6.31	1.61	0.77	1.79	19.92
04	61.85	22.54	3.39	10.76	36.69	14.60	6.33	1.22	0.91	2.10	25.16
1905	48.41	15.87	3.57	8.71	28.15	11.14	5.94	1.28	0.89	1.01	20.26
06	41.09	14.00	4.14	5.24	23.38	7.91	5.30	1.32	0.88	2.30	17.71
07	48.13	17.51	2.33	6.94	26.78	10.59	6.04	1.81	0.92	1.99	21.35
08	49.47	17.00	1.99	8.44	27.43	10.79	6.48	1.60	0.89	2.28	22.04
09	63.61	19.76	3.19	12.78	35.73	13.94	8.32	2.13	1.04	2.45	27.88
1910	60.84	18.94	3.76	11.26	33.96	12.62	8.02	2.18	1.12	2.94	26.88
11	47.64	16.22	3.10	6.33	25.65	10.03	6.98	1.31	1.00	2.67	21.99
12	62.23	22.98	3.64	9.21	35.83	12.52	7.71	2.12	1.16	2.89	26.40
13	69.87	22.01	4.50	13.36	39.87	14.38	9.49	2.07	1.07	2.99	30.00
14	53.67	19.76	3.87	8.76	32.39	10.01	6.72	1.32	0.80	2.43	21.28

Source: V.M. Obukhov, ibid. M1927, pp 23

Grain yields of 6 main grains in 50 Gubernia of European Russia

	All Grains ts./ha.	Rye ts./ha.	Winter Wheat ts./ha.	Spring Wheat ts./ha.	Oats ts./ha.	Barley ts./ha.
1883	5.28	5.04	5.22	4.90	6.28	5.75
84	5.71	6.29	7.55	5.35	5.49	5.61
1885	4.83	6.38	7.48	2.83	4.26	4.11
86	5.48	6.05	3.90	3.45	6.26	5.55
87	6.36	6.80	9.50	5.17	6.73	6.95
88	6.12	6.47	10.90	5.32	5.98	6.61
89	4.66	5.01	3.84	3.84	5.38	4.69
1890	5.35	5.83	6.77	3.54	5.62	5.90
91	4.14	4.29	5.13	3.09	4.42	5.04
92	5.13	5.50	5.17	4.5	4.9	5.84
93	7.3	6.92	8.24	7.07	7.73	10.12
94	7.39	8.06	8.95	6.34	7.67	8.09
1895	6.75	7.21	8.96	5.28	7.12	7.15
96	6.52	6.37	7.06	5.44	6.74	6.65
97	5.39	5.7	4.81	4.42	5.43	6.35
98	6.28	6.43	8.59	5.62	5.64	7.79
99	7.07	8.00	8.98	4.74	8.33	5.55
1900	6.67	7.93	6.56	5.08	7.13	5.72
01	5.67	6.49	10.16	3.94	4.98	5.62
02	7.67	7.73	11.60	6.25	7.78	8.11
03	7.0	7.6	9.82	6.28	6.2	8.09
04	8.08	8.56	9.97	7.13	9.55	7.79
1905	6.37	6.11	9.58	5.55	7.13	7.25
06	5.3	5.25	10.54	3.28	5.11	6.61
07	6.33	6.64	6.26	4.71	6.89	7.31
08	6.48	6.71	6.86	5.44	7.07	7.3
09	8.29	7.7	9.25	8.12	9.16	9.43
1910	7.71	7.49	11.09	6.40	8.05	8.65
11	5.97	6.2	8.48	3.60	6.44	5.99
12	7.97	8.78	9.53	5.67	8.3	8.27
13	8.73	8.30	12.08	7.99	9.34	9.58
14	6.67	7.48	9.55	4.28	6.34	6.59

Source: V.M. Obukhov 'Dvizhenii urozhaev v europ. Rossii v period 1883-1915gg', in V.G. Groman (ed) ibid. pp 2-5.

Sown area of grain by grain by region in Russia in million hectares (Kondratiev's data)

	All Grains	Rye	Winter Wheat	Spring Wheat	All Food Grain	Oats	Barley	Millet	Buck-wheat	Maize	All Non Food
NCR											
1901/05	9.52	5.16	0.03	0.11	5.30	3.09	0.78	0.03	0.32	0	4.22
1906/10	9.06	4.96	0.03	0.09	5.08	2.95	0.74	0.02	0.27	0	3.98
1911/15	9.12	5.16	0.03	0.08	5.27	2.86	0.75	0.02	0.22	0	3.85
1913	9.26	5.21	0.04	0.09	5.34	2.88	0.79	0.02	0.23	0	3.92
1916	8.00	4.20	0.03	0.08	4.31	2.55	0.87	0.04	0.23	0	3.69
1917	7.84	4.13	0.05	0.05	4.23	2.55	0.80	0.03	0.23	0	3.61
1920	5.71	3.29	0.03	0.06	3.38	1.59	0.51	0.07	0.16	0	2.33
1921	5.72	3.22	0.03	0.08	3.33	1.61	0.55	0.08	0.15	0	2.39
SPR											
1901/05	29.51	5.45	4.47	8.51	18.43	2.72	5.68	1.05	0.95	0.68	11.08
1906/10	31.13	4.93	4.83	9.21	18.97	2.81	6.81	1.12	0.68	0.74	12.16
1911/15	33.52	4.96	5.49	9.45	19.90	2.97	8.09	1.03	0.65	0.88	13.62
1913	34.05	5.02	5.59	9.56	20.17	2.97	8.30	1.04	0.67	0.90	13.88
1916	29.20	4.70	6.02	5.64	16.36	2.63	7.47	0.95	0.82	0.97	12.84
1917	28.27	4.74	(6.08)	4.94	15.76	2.50	(7.31)	(0.97)	(0.80)	(0.93)	12.51
1920	-	-	-	-	-	-	-	-	-	-	-
1921	21.24	3.62	3.99	3.80	11.41	1.97	4.83	1.01	1.03	0.99	9.83
CPR											
1901/05	25.11	11.17	0.28	4.49	15.94	5.92	0.54	1.84	0.86	0	9.17
1906/10	26.21	11.40	0.21	5.24	16.85	6.04	0.54	1.96	0.82	0	9.36
1911/15	26.68	11.42	0.22	5.97	17.61	5.93	0.61	1.73	0.80	0	9.07
1913	26.92	11.41	0.20	6.07	17.68	5.99	0.59	1.79	0.87	0	9.24
1916	24.94	10.71	0.30	5.16	16.17	5.81	0.54	1.62	0.79	0.01	8.77
1917	25.58	11.17	0.40	4.73	16.30	6.07	0.51	1.81	0.81	0.08	9.28
1920	18.76	8.94	0.18	3.40	12.52	3.00	0.21	2.46	0.57	-	6.24
1921	15.01	8.21	1.47	9.80	2.48	0.13	2.21	0.39	0	5.21	
EPR											
1901/05	11.29	2.82	0.01	3.76	6.59	3.54	0.58	0.42	0.16	0	4.70
1906/10	13.11	2.88	0.01	4.74	7.63	4.28	0.62	0.42	0.16	0	5.48
1911/15	16.30	3.21	0.02	6.88	10.11	4.85	0.78	0.42	0.14	0	6.19
1913	16.49	3.39	0.02	7.00	10.41	4.72	0.78	0.44	0.14	0	6.08
1916	17.37	2.79	0.01	7.95	10.75	5.20	0.83	0.44	0.15	0	6.62
1917	17.79	2.57	0.03	8.38	10.98	5.43	0.81	0.44	0.13	0	6.81
1920	15.58	2.11	0.01	7.53	9.65	4.89	0.64	0.30	0.10	0	5.93
1921	12.06	2.08	0.01	5.59	7.68	3.49	0.53	0.27	0.09	0	4.38
USSR											
1901/05	75.22	24.60	4.79	16.86	46.25	15.27	7.58	3.35	2.09	0.68	28.97
1906/10	79.48	24.17	5.07	19.27	48.51	16.07	8.71	3.51	1.94	0.74	30.97
1911/15	85.63	24.76	5.75	22.37	52.88	16.61	10.23	3.20	1.82	0.89	32.75
1913	86.70	25.03	5.84	22.72	53.59	16.55	10.46	3.29	1.91	0.90	33.11
1916	79.45	22.39	6.37	18.78	47.54	16.19	9.70	3.05	1.99	0.98	31.91
1917	79.39	22.60	6.57	18.09	47.26	16.53	9.43	3.25	1.98	0.94	32.13
1920	61.81	17.97	4.25	14.75	36.97	11.69	6.47	3.86	1.85	0.97	24.84
1921	54.02	17.13	4.14	10.93	32.20	9.56	6.04	3.56	1.67	0.99	21.82

Source N.D. Kondratiev (ed.), N.P.Oganovsky (compiler) Selskoye khozyaistvo rossii vXX veke Sbornik Statistiki Ekonomicheskikh svedenii za 1901 - 22gg., M. 1923, pp. 78 - 116, 160 - 197.

Production of grain by region in Russia (Kondratiev's data) in mln. tons

	All Grains	Rye	Winter Wheat	Spring Wheat	All Food Grain	Oats	Barley	Millet	Buck-wheat	Maize	All Non Food
Production in mln. tons											
NCR											
1901/05	6.27	3.43	0.02	0.06	3.51	2.12	0.50	0.02	0.12	-	2.76
1906/10	5.65	2.90	0.02	0.05	2.97	2.05	0.52	0.01	0.10	-	2.68
1911/15	6.82	3.97	0.03	0.06	4.06	2.10	0.54	0.02	0.10	-	2.76
1913	7.15	3.83	0.03	0.06	3.92	2.48	0.65	0.02	0.08	-	3.23
1916	6.74	3.57	0.03	0.11	3.71	2.24	0.62	0.03	0.14	-	3.03
1920	3.37	2.10	0.01	0.02	2.13	0.90	0.25	0.02	0.05	-	1.24
1921	4.54	2.60	0.03	0.02	2.65	1.40	0.36	0.05	0.08	-	1.89
SPR											
1901/05	22.09	4.23	4.07	5.38	13.68	2.32	4.45	0.71	0.35	0.58	8.41
1906/10	23.43	3.46	4.07	5.70	13.23	2.44	5.71	0.90	0.38	0.77	10.20
1911/15	27.45	4.38	5.25	5.76	15.39	2.91	6.79	0.86	0.43	1.07	12.06
1913	33.17	5.03	6.44	7.86	19.33	3.23	8.40	0.82	0.38	1.01	13.84
1916	30.88	5.29	(7.40)	(3.97)	16.66	2.93	9.16	0.79	(0.38)	0.96	14.22
1920											
1921	8.06	2.03	1.56	0.94	4.53	1.01	1.54	0.54	0.44	-	3.53
CPR											
1901/05	16.57	8.47	0.27	2.20	10.94	3.96	0.31	1.02	0.34	-	5.63
1906/10	16.61	7.97	0.18	2.49	10.64	4.19	0.29	1.12	0.37	-	5.97
1911/15	18.94	9.21	0.25	3.27	12.73	4.33	0.38	1.11	0.39	-	6.21
1913	21.99	9.48	0.24	4.43	14.15	5.49	0.49	1.38	0.48	-	7.84
1916	19.98	10.43	0.33	2.34	13.10	4.77	0.37	1.16	0.58	-	6.88
1920	7.15	3.33	0.06	0.88	4.27	1.56	0.07	0.99	0.26	-	2.88
1921	6.46	3.36	0.07	0.39	3.82	1.04	0.08	0.99	0.17	-	2.64
EPR											
1901/05	8.08	2.15	0.44	2.36	4.95	2.51	0.42	0.13	0.07	-	3.13
1906/10	9.27	2.18	0.44	3.04	5.66	2.92	0.44	0.18	0.07	-	3.61
1911/15	12.17	2.45	0.54	5.17	8.16	3.19	0.55	0.21	0.06	-	4.01
1913	13.08	2.67	0.67	4.83	8.17	3.91	0.66	0.26	0.08	-	4.91
1916	11.25	2.50	(0.67)	3.77	6.94	3.45	0.53	0.24	(0.09)	-	4.31
1920	6.29	1.27	0.34	1.96	3.57	2.42	0.22	0.06	0.02	-	2.72
1921	6.20	0.97	0.27	2.80	4.04	1.78	0.25	0.10	0.03	-	2.16
USSR											
1901/05	52.59	18.28	4.36	10.01	32.65	10.92	5.69	1.88	0.87	0.58	19.94
1906/10	54.53	16.50	4.28	11.28	32.06	11.60	6.95	2.21	0.93	0.78	22.47
1911/15	63.61	19.79	5.53	13.27	38.59	12.52	8.25	2.20	0.98	1.07	25.02
1913	74.66	21.00	6.68	17.17	44.85	15.11	10.20	2.47	1.02	1.01	29.81
1916	69.08	21.79	(8.43)	10.19	40.41	13.40	10.67	2.22	1.42	0.96	28.67
1920											
1921	24.72	8.96	1.66	4.19	14.81	5.23	2.29	1.67	0.72	-	9.91

Grain Sown Area in mln hectare according to statistical sources of the 1930's.

	All Grains	Winter All	Rye	Wheat	Barley	Spring All	Wheat	Barley	Oats	Buck wheat	Millet	Maize	Other
1913	94.358	32.909	24.970	7.330	0.609	61.450	24.325	10.828	16.871	1.974	3.476	1.272	1.517
1920	87.0	30.2	23.3	6.7	*	56.8	21.0	9.4*	14.9			1.7	
1921	79.8	30.5	24.0	6.5	*	49.3	17.0	9.0*	12.8			1.8	
1922	66.2	28.5	23.0	5.5	*	37.7	8.9	4.6*	9.5			3.2	
1923	78.6	32.9	27.1	5.8	*	45.7	12.6	7.6*	11.6			2.5	
1924	82.9	34.8	28.1	6.7	*	48.1	15.3	7.4*	12.9			2.5	
1925	87.3	36.7	28.8	7.9	*	50.6	17.0	6.5*	12.8			3.4	
1926	93.7	37.5	28.5	9.0	*	56.2	20.4	7.4*	15.3			3.0	
1927	94.7	38.0	27.3	10.7	*	56.7	20.6	6.9*	17.9			2.7	
1928	92.2	30.7	24.6	6.2	*	61.5	21.6	7.3*	17.2	2.9	5.7	4.5	1.759
1929	96.0	31.5	24.9	6.6	*	64.5	23.2	8.1*	18.9	2.8	5.6	3.5	2.4
1930	101.8	39.0	28.9	10.1	*	62.8	23.7	7.4*	17.9			3.7	
1931	104.4	38.9	27.6	11.3	*	65.5	25.6	6.9*	17.5			4.0	
1932	99.7	38.0	26.2	11.8	*	61.7	22.7	6.8*	15.4	1.7	7.7	3.7	3.4
1933	101.5	36.2	25.0	10.8	0.4	65.3	22.4	6.9	16.7	2.0	8.9	4.0	3.7
1934	104.7	34.8	23.7	10.8	0.4	69.8	24.5	8.1	18.0	2.1	8.2	3.7	4.6
1935	103.4	36.0	23.1	12.5	0.5	67.4	24.6	8.3	18.3	2.1	5.5	3.2	4.7
1936	102.4	35.0	21.5	13.1	0.5	67.4	25.9	8.6	18.1	2.1	4.4	3.1	4.7
1937	104.5	37.6	22.7	- 14.3	0.6	66.8	27.1	8.6	17.6	1.8	4.4	2.8	4.1
1938	102.4	36.5	21.2	14.6	0.7	65.9	26.9	8.5	17.9	2.1	3.9	2.6	3.6
1939													

Source, Sotzialisticheskoe Stroitelstvo SSSR, M.1936, p.280, (1920-31)
Narodnoye Khozyaistvo SSSR, M.1932, p. 162-163 (1929 Buckwheat & Millet)
Posevnive Ploshchady SSSR, M.1939, p.5, (1913,1928,1932-1938).

Note, The figures for 1930 & 1931 given in Narodnoye Khozyaistvo SSSR, M.1932, pp.162-163, are slightly larger than those given above.

All the 1930's sources with the exception of Nar.Khoz. SSSR, M.1932, fail to group Spring Rye separately from Winter Rye. There was about ½mln hectares sown in spring rye in 1928 & 1929 but then its level dropped sharply covering only 0.35 mln hectares in 1931.

* Where marked with an asterisk(*) Winter Barley has been grouped together with Spring Barley. as this covered about ½ mln hectares it would offset the inclusion of Spring rye in winter grains.

Grain production in mln tons according to statistical sources of the 1930's

	All Grains	Winter All	Rye	Wheat	Barley	Spring All	Wheat	Barley	Oats	Buck wheat	Millet	Maize	Other
1913	80.10	28.95*	21.33	7.62*		51.15*	18.49*	10.79	15.41	1.05	2.62	1.18*	1.61*
1920													
1921													
1922	50.31	23.01*	18.17	4.84*		27.30*	5.79*	4.28	7.79			3.01	
1923	56.59	24.88*	19.78	5.10*		31.71*	7.18*	5.70	8.35			3.18	
1924	51.40	23.79*	18.83	4.96*		27.61*	8.11*	4.37	8.90			2.33	
1925	72.46	30.10*	22.75	7.35*		42.36*	13.43*	5.98	11.52			4.49	
1926	76.83	32.39*	23.66	8.73*		44.44*	15.71*	5.48	14.84			3.45	
1927	72.30	33.55*	24.17	9.38		38.75*	12.17	4.48	13.11	1.40	3.05	3.12	1.42*
1928	73.32	24.09*	19.30	4.79		49.23*	17.19	5.67	16.48	1.63	3.03	3.29	1.94*
1929	71.74	25.54*	20.36	5.18		46.20*	13.70	7.21	15.74	1.51	3.11	3.02	1.91*
1930	83.54	33.60*	23.60	10.00		49.94*	16.92	6.77	16.62	1.29	3.17	2.67	2.50*
1931	69.48	32.27*	21.99	10.28		37.21*	10.21	5.18	10.96	0.95	2.81	4.75	2.35*
1932	69.87	30.72*	22.02	8.70		39.15*	11.55	5.03	11.24	0.92	4.33	3.43	2.65*
1933	89.80	35.89*	24.19	11.70		53.91*	16.03	7.85	15.41	1.12	4.83	4.80	3.87*
1934	89.40	28.7*	20.13	8.57		60.70*	21.84	6.84	18.90	1.11	4.17	3.84	4.00*
1935p	90.10	33.32*	21.36	11.96		56.78*	18.87	8.16	18.27	1.33	2.76	2.77	4.67*
1936	82.73	33.92*	17.28	16.64*		48.81*	16.32	9.60	13.66	0.77	1.65	4,03	2.78*
1937	120.29	49.03*	29.44	19.59*		71.26*	27.37	10.60	21.86	1.36	2.53	3.86	3.68*
1938	94.99	37.65*	20.71	16.94*		57.34*	23.94	8.44	17.07	0.79	1.91	2.68	2.51*
1939													

Sources; 1913, 1836-38, ; Selskoye Khozyaistvo SSSR, M.1939, p.246
1922-1926, Plan, 1934, No.3, p.

1927-1935p; Sotzialisticheskoe Stroitelstvo SSSR, M.1936, pp.342-343.

Note * Figures marked with an asterisk (*) were calculated from ~~xxxxx~~ data in tables xx & zz on sown area and yield or from other data in this table. In particular in most of the above sources Spring Wheat and Winter Wheat production were not given seperately.

Grain Yields in tsentners per hectare according to statistical sources of the 1930's

	All Grains	Winter All	Rye	Wheat	Barley	Spring All	Wheat	Barley	Oats	Buck wheat	Millet	Maize	Other
1913	8.5	8.8*	8.3	10.4		8.3*	7.6	9.6	9.1	5.3	7.5	9.3	10.6*
1920													
1921													
1922	7.6	8.1*	7.9	8.8		7.2*	6.5	9.3	8.2	5.6	5.4	9.4	
1923	7.2	7.6*	7.3	8.8		6.9*	5.7	7.5	7.2	5.3	6.2	12.7	
1924	6.2	6.8*	6.7	7.4		5.7*	5.3	5.9	6.9	5.2	4.0	9.3	
1925	8.3	8.2*	7.9	9.3		8.4*	7.9	9.2	9.0	5.7	7.4	13.2	
1926	8.2	8.6*	8.3	9.7		7.9*	7.7	7.4	9.7	5.1	4.2	11.5	
1927	7.6	8.8*	8.8	8.7		6.8*	5.9	6.5	7.3	5.2	7.9	11.3	
1928	7.9	7.8*	7.8	7.8		8.0*	8.0	7.7	9.5	5.6	5.2	7.4	
1929	7.5	8.1*	8.2	7.9		7.2*	5.9	9.0	8.3	5.4	5.6	8.5	
1930	8.5	8.6*	8.4	10.6		8.0*	7.3	9.4	9.7	6.5	6.3	7.6	
1931	6,7	8.3*	8.0	9.1		5.7*	4.0	7.4	6.3	4.4	5.0	11.8	
1932	7.0	8.1*	8.4	7.4		6.3*	5.1	7.4	7.3	5.6	5.6	9.3	
1933	8.8	9.9*	9.5	10.8		8.3*	7.1	10.9	9.2	5.5	5.5	12.1	
1934	8.5	8.2*	8.4	7.9		8.7*	8.9	8.0	10.5			10.4	
1935p	8.7	9.3*	9.1	9.6		8.4*	7.7	9.4	10.0			8.6	
1936	8.1	9.7*	7.9	12.7		7.2*	6.3	10.3	7.6	3.7	3.8	13.0	
1937	11.5	13.0*	12.9	13.7		10.7*	10.1	11.5	12.4	7.4	5.7	13.8	
1938	9.3	10.3*	9.7	11.6		8.7*	8.9	8.9	9.5	3.8	4.9	10.3	
1939													

Sources; 1913, 1936-38; Selskoye Khozyaistvo SSSR, M.1939, p.172
1922-33, Plan, 1934, No.3, p.
1934 & 1935p, Sotzialisticheskoye Stroitelstvo SSSR, M.1936, p.336

Not
Note, 1935p. is a preliminary figure.
* Figures marked with an asterisk(*) were calculated from data in tables on pp.107-108 above, on grain production and sown area.

5/ Grain production data by producer

a) Pre revolutionary

i) A.S.Nifontov's data Production and sowings by sector in the 1850's

b) Post revolutionary

i) All union data by grain

ii) Regional data

Grain Production by sector in th. chetverts, net average 1851-1860

	Prodn. in th. chet.				Population				Prodn. per capita			
	Gentry Land	Serf Allotment	State Peasant	All	Gentry	Serf	State Peasant	All	Gentry	Serf	State Peasant	All
1. NCR (N 15)												
Severnyi (1)	104	509	787		10	207	526					
Sev. Zap. (2)	372	1,110	435		52	635	347					
Zapadnyi (6)	3,279	4,856	1,328		385	2,800	1,184					
Tsent N. Ch. Zem (6)	2,245	8,569	2,812		170	3,693	1,638					
1. All NCR (N 15)	6,000	15,044	5,362	26,406	617	7,335	3,695	11,647	972			
in mln. tons	(0.756)	(1.896)	(0.676)	(3.328)					1.225	0.258	0.183	0.286
2. SPR (N 6)												
Ukr. Levob (3)	3,023	2,790	3,968		193	1,560	2,184					
Ukr. Pravob (3)	4,575	4,717	868		139	2,709	689					
2. All SPR (N 6)	7,598	7,507	4,836	19,941	332	4,601	2,873	7,806				
in mln. tons	(0.957)	(0.946)	(0.362)	(2.265)					2,883	0.222	0.126	0.303
3. CPR (N 9)												
Tsent Ch. Zem (7)	10,345	12,401	11,445		516	4,260	4,437					
N. Volzhskii (1)	641	981	2,250		21	208	736					
Sred. Volzhskii (1)	1,024	1,253	-		25	417	-					
3. All CPR (N 9)	12,010	14,635	13,695	40,340	562	4,885	5,173	10,620		0.377		
in mln. tons	(1.513)	(1.844)	(1.726)	(5.083)					2.692	0.377	0.334	0.479
4. EPR (N 2)												
Pruirad (2)	75	1,410	9,719	11,204	18	485	2,570	3,073				
in mln. tons	(0.009)	(0.178)	(1.225)	(1.412)					0.500	0.367	0.477	0.459
USSR (N 32)	25,683	38,596	33,612	97,891	1,529	17,306	14,311	33,146				
in mln. tons	(3.236)	(4.863)	(4.235)	(12.334)					2.116	0.281	0.296	0.372

Source: A.S. Nifontov, ibid, M.1974, p.129.

Grain Sowings by sector in th. chetverts.

	1852			1856			1860		
	Landowner Land	Serf Land	All	Landowner Land	Serf Land	All	Gentry Land	Serf Allotment	All
1. NCR (N 15)									
Severnyi (1)	42	164	206	44	211		44	216	
Sev. Zap (2)	173	753	926	172	600		222	827	
Zapadnyi (6)	1,761	3,130	4,891	1,799	2,999		1,947	3,138	
Tsent N Ch Zem (6)	1,350	4,923	6,273	1,259	4,891		1,277	4,842	
All NCR (N 15)	3,326	8,970	12,296	3,274	8,701	11,975	3,490	9,023	12,513
2. SPR (N 6)									
Ukr. levob (3)	1,245	1,275		1,275	1,219		1,260	1,168	
Uk. Pravob (3)	1,695	1,704		1,659	1,584		1,781	1,570	
All SPR (N 6)	2,940	2,979	5,919	2,934	2,803	5,737	3,041	2,738	5,779
3. CPR (N 9)									
Tsent Ch Zem (7)	4,371	5,364		4,308	5,104		4,644	5,143	
N. Volzhskii (1)	212	311		199	276		170	284	
Sred. Volzhskii (1)	449	531		379	467		406	482	
All CPR (N 9)	5,032	6,206	11,238	4,886	5,847	10,733	5,220	5,909	11,129
4. EPR (N 2)									
Priural (2)	48	490	538	19	545	564	13	559	572
USSR (N 32)	11,346	18,645	29,991	11,113	18,803	29,251	11,764	18,138	30,317

Source: A. S. Nifontov, ibid, M.1974, p.104.

Grain production in mln tons by sector according to statistical sources of 1930's

	All Grains	Winter All	Rye	Wheat	Spring All	Wheat	Barley	Oats	Maize	Millet	Buck wheat	Other
1927	72.30	33.55	24.17	9.38	38.75	12.17	4.48	13.11	3.12	3.05	1.40	1.42
SF	1.07	0.48	0.20	0.28	0.59	0.09	0.04	0.33	0.03	0.03	0.00	0.07
CF	0.50	0.24	0.10	0.14	0.26	0.08	0.03	0.08	0.03	0.02	0.01	0.01
Ind.	70.73	32.83	23.87	8.96	37.9	12.00	4.41	12.70	3.06	3.00	1.39	1.34
1928	73.32	24.09	19.30	4.79	49.23	17.19	5.67	16.48	3.29	3.02	1.63	1.94
SF	1.13	0.33	0.13	0.20	0.80	0.13	0.07	0.46	0.04	0.02	0.00	0.08
CF	0.90	0.14	0.08	0.06	0.76	0.32	0.09	0.20	0.08	0.04	0.01	0.02
Ind.	71.29	23.62	19.09	4.53	47.67	16.74	5.51	15.82	3.17	2.96	1.62	1.85
1929	71.74	25.54	20.36	5.18	46.20	13.70	7.21	15.74	3.02	3.11	1.51	1.91
SF	1.33	0.40	0.17	0.23	0.93	0.23	0.14	0.42	0.03	0.04	0.01	0.06
CF	2.71	0.54	0.28	0.26	2.17	0.84	0.32	0.58	0.20	0.12	0.03	0.08
Ind.	67.70	24.60	19.91	4.69	43.1	12.63	6.75	14.74	2.79	2.95	1.47	1.77
1930	83.54	33.60	23.60	10.00	49.94	16.92	6,77	16.62	1.29	3.17	2.67	2.50
SF	2.61	0.95	0.30	0.65	.1.66	0.85	0.20	0.50	0.03	0.02	0.01	0.05
CF	23.77	5.20	2.52	2.68	18.57	8.44	3.16	4.24	1.05	0.83	0.17	0.68
Ind.	57.16	27.45	20.78	6.67	29.71	7.63	3.41	11.88	0.21	2.32	2.49	1.77
1931	69.48	32.27	21.99	10.28	37.21	10.21	5.18	10.96	4.75	2.81	0.95	2.35
SF	4.74	1.65	0.39	1.26	3.09	1.21	0.43	0.79	0.33	0.09	0.02	0.22
CF	38.32	16.66	10.57	6.09	21.66	6.87	3.05	5.47	3.15	1.55	0.41	1.16
Ind.	26.42	13.96	11.03	2.93	12.46	2.13	1.70	4.70	1.27	1.17	0.52	0.97
1932	69.87	30.72	22.02	8.70	39.15	11.55	5.03	11.24	3.43	4.33	0.92	2.65
SF	6.65	2.02	0.98	1.04	4.63	1.78	0.59	1.35	0.38	0.19	0.05	0.29
CF	46.75	20.13	13.61	6.52	26.62	8.77	3.41	7.06	2.17	2.91	0.59	1.71
Ind.	16.47	8.57	7.43	1.14	7.90	1.00	1.03	2.83	0.88	1.23	0.28	0.65
1933	89.80	35.89	24.19	11.70	53.91	16.03	7.85	15.41	4.80	4.83	1.12	3.87
SF	9.20	2.58	1.12	1.46	6.62	1.87	1.19	2.04	0.59	0.45	0.07	0.41
CF	65.81	25.84	16.62	9.22	39.97	13.19	5.63	11.54	2.85	3.15	0.79	2.82
Ind.	14.79	7.47	6.45	1.02	7.32	0.97	1.03	1.83	1.36	1.23	0.26	0.64

Source: Sotz. Stroitelstvo SSSR, M.1936, pp. 342-343

Grain production by sector according to statistical sources of the 1830's

Year		All	SF	CF	Ind CF	Ind	Other	All Ind
1928	Sown area	92.172	1.097	1.036	0.916	89.123	-	90.039
	Production	73.320	1.134	0.904				71.282
	Yield	7.95	10.34	8.73				7.92
1929	Sown Area	96.012	1.537	3.391	1.193	89.891	-	91.084
	Production	71.742	1.327	2.710				67.705
	Yield	7.47	8.63	7.99				7.43
1930	Sown Area	101.761	2.924	29.690	2.423	66.724	-	69.147
	Production	83.545	2.608	23.770				57.167
	Yield	8.21	8.92	8.01				8.27
1931	Sown Area	104.406	8.082	61.017	4.054	31.253	-	35.307
	Production	69.484	4.737	38.323				26.424
	Yield	6.66	5.86	6.28				7.48
1932	Sown Area	99.700	9.244	69.120	0.536	20.800	-	21.336
	Production	69.873	6.650	46.749				16.474
	Yield	7.01	7.19	6.76				7.72
1933	Sown Area	101.554	10.845	74.962	0.701	15.047		15.748
	Production	89.804	9.200	65.812				14.792
	Yield	8.84	8.48	8.78				9.39
1934	Sown Area	104.677	11.608	80.846	0.701	11.523	-	12.224
	Production	89.403	9.693	68.802				10.908
	Yield	8.54	8.35	8.51				8.92
1935	Sown Area	103.440	12.054	84.430	1.226	5.527	0.204	6.957
	Production	90.10						
	Yield	8.7						
1936	Sown Area	102.441	10.954	88.510				2.977
	Production	82.73						
	Yield	8.1						
1937	Sown Area	104.454	8.712	93.566				2.176
	Production	120.29	10.80	107.13*				2.36*
	Yield	11.5	12.4o	11.45				10.85*
1938	Sown Area	102.411	8.496	91.919	1.189	0.593	0.214	1.996
	Production	94.99	8.76	84.57*				1.66*
	Yield	9.3	10.3	9.2				8.3*
1939								

Sources; 1928-1934; &1935 SA; Sotş.Stroi. SSSR, M.1936,pp.282-295,342-
1937 & 1938; Sel.Khoz SSSR, M.1939, p.174, 54,55.
1937 CF yield; Kolkhozy vo vtoroi pyatiletki,M.1938, p.87.
1936 SA; Posevniye Ploshchady SSSR, M.1939, p.15.

Sovkhoz all grains production in mln tons *from various sources*

	Year	NCR	SCR	SPR	CPR	EPR	USSR
(7)	1928	0.086	0.006	0.618	0.284	0.140	1.134
	1929	0.104	0.017	0.746	0.320	0.139	1.327
	1930	0.149	0.046	1.637	0.860	0.563	3.256
8b	1928	0.086	0.006	0.618	0.278	0.140	1.134
	1929						
	1930	0.191	0.024	1.211	0.812	0.371	2.608
	1931						
	1932	0.423	0.188	2.573	1.781	1.686	6.650
	1933						
	1934	(0.785)	(0.356)	(2.845)	(1.695)	(3.151)	(9.693)

Note For listing of sources see p 56

All Sovkhoz grain sown area in mln hectare from various sources

source

	Year	NCR	SCR	SPR	CPR	EPR	USSR
(7)	1928	0.091	0.006	0.525	0.315	0.160	1.097
	1929	0.101	0.024	0.708	0.455	0.250	1.537
	1930	0.145	0.077	1.362	1.112	0.814	3.508
	1931	0.258	0.113	2.810	2.482	2.229	7.892
(8b)	1928	0.094	0.007	0.527	0.315	0.159	1.097
	1929	0.101	0.024	0.712	0.455	0.250	1.537
	1930	0.196	0.035	1.056	1.083	0.567	2.924
	1931	0.239	0.167	2.935	2.538	2.232	8.082
	1932	0.511	0.267	3.135	2.774	2.596	9.211
	1933	0.785	0.320	4.009	2.838	2.929	10.812
	1934	0.811	0.340	4.171	(3.083)	(3.247)	11.608
(8c)	1934	0.852	0.340	4.127	3.103	3.186	11.608
	1935	0.850	0.388	4.372	3.218	3.225	12.054
(9)	1928	0.095	0.008	0.526	0.300	0.157	1.097
	1932	0.535	0.272	3.092	2.764	2.589	9.244
	1933	0.814	0.324	3.971	2.850	2.922	10.845
	1934	0.835	0.341	4.128	3.120	3.186	11.608
	1935	0.838	0.389	4.373	3.232	3.226	12.054
	1936	0.700	0.292	3.851	3.063	3.049	10.954
	1937	0.478	0.199	2.887	2.568	2.584	8.712
	1938	0.381	0.170	2.806	2.510	2.633	8.496

Sovkhoz all grain yields in tsentners / hectare

	Year	NCR	SCR	SPR	CPR	EPR	USSR	
(7)	1928	9.5	9.4	11.8	9.0	8.8	10.3	
	1929	10.4	7.0	10.5	7.1	5.6	8.6	
	1930	10.3	6.0	12.0	7.7	6.9	9.3	
8b	1928	9.5	8.6	11.7	8.8	8.8	10.3	
	1929							
	1930	9.7	6.9	11.5	7.5	6.5	8.9	
	1931							
	1932	8.3	7.0	8.2	6.4	6.5	7.22	
	1933							
	1934	(9.7)	(10.5)	(6.8)	(5.5)	(9.7)	(8.4)	
	1928						10.4	1927
	1929						10.3	1928
	1930						8.6	1929
	1931						8.9	1930
	1932						5.9	1931
	1933						7.2	1932
	1934						5.5	1933
	1935						6.3	1934
	1936						7.5	1935
	1937						6.3	1936
	1938						10.7	1937
	1939						8.5	1938
	1940						8.3	1939
							8.9	1940

(source 7)

Sovkhoz grain production from Nar. Khoz.SSSR. M.1932, pp 166-69, 172-3.

	1928			1929			1930		
	Sown area	yield	output	Sown area	yield	output	Sown area	yield	output
1/NCR									
a)N.and NW									
Sev.Krai	0.0022		0.0024	0.0025		0.0028	0.0021		0.0026
Leningrad	0.0067		0.0062	0.0071		0.0065	0.0112		0.0133
Zap.Ob.	0.0232		0.0227	0.0253		0.0258	0.0281		0.0289
	0.0321	9.8	0.0313	0.0349	10.1	0.0351	0.0414	10.8	0.0448
b)C.Ind									
Moscow	0.0289		0.0275	0.0333		0.0360	0.0533		0.0533
Iv.Prom.	0.0057		0.0058	0.0072		0.0073	0.0145		0.0135
Gorky(30%)	0.0031		0.0028	0.0041		0.0037	0.0050		0.0043
	0.0377	9.6	0.0361	0.0446	10.5	0.0470	0.0728	9.8	0.0711
c)BSSR	0.0211	9.0	0.0189	0.0212	10.5	0.0223	0.0304	11.0	0.0334
1/All NCR	0.091	9.5	0.086	0.101	10.4	0.104	0.145	10.3	0.149
2/SCR									
a)ZSFSR	0.0026	9.6	0.0025	0.0061	10.0	0.0061	0.0079	9.1	0.0072
b)C.Asia									
C.Asia	0.0023		0.0018	0.0145		0.0075	0.0578		0.0310
Kirg.ASSR	0.0014		0.0016	0.0034		0.0033	0.0108		0.0079
	0.0037	9.2	0.0034	0.0179	6.0	0.0108	0.0686	5.6	0.0389
2/All SCR	0.006	9.4	0.006	0.024	7.0	0.017	0.077	6.0	0.046
3/SPR									
A)Ukraine									
Uk.SSR	0.3971		0.5247	0.4567		0.5502	0.7957		1.1292
Crimea	0.0197		0.0094	0.0311		0.0198	0.0698		0.0430
	0.4168	12.8	0.5341	0.4878	11.7	0.5700	0.8655	13.5	1.1722
b)N.Caucasus									
S.Kavkaz K.	0.1069		0.0831	0.2193		0.1757	0.4907		0.4596
Dagestan	0.0010		0.0007	0.0010		0.0007	0.0054		0.0051
	0.1079	7.8	0.0838	0.2204	8.0	0.1764	0.4961	9.4	0.4647
3/AllSPR	0.525	11.8	0.618	0.708	10.5	0.746	1.362	12.0	1.637

Sovkhoz all grains production from Nar. Khoz.SSSR,M.1932

	1928			1929			1930		
	Sown area	yield	output	Sown area	yield	output	Sown area	yield	output
4/CPR									
a)C.Ch.Zem	0.1603	11.0	0.1770	0.1754	10.5	0.1833	0.2172	12.5	0.2707
b)Volga									
N.Volga Kr.	0.0534		0.0415	0.1271		0.0570	0.3996		0.2275
Sr.Volga Kr.	0.0689		0.0391	0.1071		0.0499	0.3832		0.2814
Tatar ASSR	0.0115		0.0081	0.0170		0.0106	0.0307		0.0210
Bashkir ASSR	0.0135		0.0116	0.0184		0.0106	0.0692		0.0494
Gorky (70%)	0.0073		0.0064	0.0095		0.0087	0.0716		0.0099
	0.1546	6.9	0.1067	0.2791	4.9	0.1371	0.8943	6.6	0.5892
4/All CPR	0.315	9.0	0.284	0.455	7.1	0.320	1.112	7.7	0.860
5/EPR									
a)Urals	0.0287	9.3	0.0266	0.0488	6.1	0.0296	0.1902	6.3	0.1194
b)Siberia									
Sib.Krai	0.1116		0.1011	0.1614		0.0936	0.3476		0.3100
D.V.Krai	0.0068		0.0044	0.0102		0.0074	0.0428		0.0259
	0.1184	8.9	0.1055	0.1716	5.9	0.1010	0.3904	8.6	0.3359
c)Kazak ASSR	0.0129	6.4	0.0083	0.0295	2.9	0.0085	0.2332	4.6	0.1081
5/All EPR	0.160	8.8	0.140	0.250	5.6	0.139	0.814	6.9	0.563
All USSR	1.097	10.3	1.134	1.537	8.6	1.327	3.508	9.3	3.256

Sources 8b + 8c

Sovkhozy All grains Sown Area from Sel.Khoz.SSSR za 1935g, M.1936, PP.252-259 and from Sotz.Stroit.SSSR 1936, M1936, pp.300

	1928	1929	1930	1931	1932	1933	1934	1934'	1935'
1/NCR									
a)N.and NW.									
Sev Krai	0.0022	0.0025	0.0024	0.0016	0.0145	0.0295	0.0283	0.0283	0.0292
Leningrad	0.0067	0.0071	0.0092	0.0147	0.0322	0.0657	0.0734	0.0685	0.0726
Karelia ASSR	-	-	-	0.0001	0.0005	0.0016	0.0013	0.0013	0.0015
Zap.Ob.	0.0232	0.0253	0.0322	0.0427	0.0676	0.1027	0.1097	0.0942	0.0905
Kalinin								0.0408	0.0397
	0.0321	0.0349	0.0438	0.0591	0.1148	0.1995	0.2147	0.2331	0.2335
B)C.Ind.									
Moscow	0.0289	0.0332	0.0933	0.0920	0.2298	0.3341	0.3353	0.3169	0.3068
Ivanov	0.0057	0.0072	0.0164	0.0335	0.0560	0.0792	0.0825	0.0825	0.0873
Gorky(30%)	0.0034	0.0041	0.0047	0.0092	0.0185	0.0341	0.0376		
Gorky(new)								0.0794	0.0796
	0.0380	0.0445	0.1144	0.1347	0.3043	0.4474	0.4554	0.4768	0.4737
c)BSSR	0.0211	0.0212	0.0375	0.0454	0.0919	0.1378	0.1404	0.1404	0.1425
	XXXX

Sovkhoz All grains sown area

	1928	1929	1930	1931	1932	1933	1934	1934	1935
4/CPR									
a)C.Ch.Zem	0.1603	0.1754	0.2101	0.3553	0.5607	0.6741			
Voronezh							0.4889	0.4889	0.4964
Kursk							0.2080	0.2080	0.2166
	0.1603	0.1754	0.2101	0.3553	0.5607	0.6741	0.6969	0.6969	0.7130
b)Volga									
N.VolgaKrai	0.0534	0.1271	0.3547	0.7905	0.7497	0.7767			
Sr.Volga Kr.	0.0689	0.1071	0.3905	1.0861	1.0230	0.8968	1.0033		
Gorky (70%)	0.0080	0.0095	0.0110	0.0214	0.0431	0.0795	0.0877		
Tatar ASSR	0.0112	0.0170	0.0240	0.0595	0.1116	0.1624	0.1605	0.1605	0.1548
Bashkir ASSR	0.0134	0.0184	0.0929	0.2251	0.2862	0.2488	0.2713	0.2697	0.2659
Saratov							0.4903	0.4903	0.5083
Stalingrad							0.3730	0.3730	0.4204
Kirov								0.0617	0.0597
Kuibyshev								0.5662	0.5320
Orenburg								0.4842	0.5139
	0.1549	0.2791	0.8731	2.1826	2.2136	2.1642	2.3861	2.4056	2.5050
	XXXX

Source 8b

Sovkhoz all grains production in mln. tsentners from Sel.Khoz.SSSR 1935g.M.1936

	1928	1929	1930	1931	1932	1933	1934	1935
1/NCR								
a)N.and NW								
Sev.Krai	0.024		0.029		0.131		(0.335)	
Leningrad	0.062		0.108		0.290		(0.806)	
Karelia ASSR	-		-		0.005		(0.012)	
Zap.Ob.	0.227		0.349		0.586		(0.920)	
Kalinin								
	0.313		0.486		1.012		(2.073)	
b)C.Ind.								
Moscow	0.275		0.850		1.968		(3.339)	
Ivanov	0.058		0.149		0.458		(0.836)	
Gorky (30%)	0.028		0.038		0.134		(0.357)	
	0.361		1.037		2.560		(4.532)	
c)BSSR	0.189		0.384		0.653		(1.245)	
1/All NCR	0.863		1.907		4.225		(7.850)	
2/SCR								
a)ZSFSR	0.025		0.066		0.543		(0.992)	
b)C.Asia								
Uzbek SSR			0.080		0.495		(1.582)	
Turk SSR	0.018				0.118		(0.226)	
Tadzh.SSR			0.024		0.183		(0.144)	
Kirgiz ASSR	0.016		0.072		0.542		(0.619)	
	0.034		0.176		1.336		(2.571)	
2/All SCR	0.059		0.242		1.881		(3.563)	
3/SPR								
a)Ukraine								
Uk.SSR	5.247		8.666		15.672		(15.151)	
Crimea	0.094		0.421		1.008		(1.598)	
	5.341		9.087		16.680		(16.749)	
b)N.Caucasus								
S.Kavkaz(old)	0.839		3.019		9.046		-	
Azov chern.Kr.							(7.730)	
S.Kavkaz(new)							(3.967)	
	0.839		3.019		9.046		(11.697)	
3/All SPR	6.180		12.106		25.726		(28.446)	

Sovkhoz all grains production in mln tsentners from Sel.Khoz.SSSR 1935,N.1936

4/	1928	1929	1930	1931	1932	1933	1934	1935
4/CPR								
a)c.Ch.Zem	1.770		2.500		5.760			
Voronezh							(4.314)	
Kursk							(1.829)	
	1.770		2.500		5.760		(6.143)	
b)Volga								
N.Volga Kr.	0.415		1.951		3.743			
Sr.Volga Kr.	0.392		2.776		5.527		(8.605)	
Tatar ASSR	0.081		0.161		0.836		(1.520)	
Bashkir ASSR	0.116		0.640		1.634		(2.720)	
Gorky (70%)	0.006		0.090		0.312		(0.833)	
Stalingrad							(2.193)	
Saratov							(3.537)	
	1.010		5.618		12.052		(19.405)	
4/All CPR	2.780		8.118		17.812		(25.551)	
5/EPR								
a)Urals								
Urals(old)	0.266		0.639		4.454			
Sverdlovsk							(1.681)	
Chelyabinsk							(4.542)	
Ob-Irtish							(0.142)	
	0.266		0.639		4.454		(6.365)	
b)Siberia								
Zap.Sib.Krai	1.012		1.785		7.283		(13.383)	
Vost.Sib.Krai			0.192		1.537		(3.013)	
Yakut.ASSR					0.038		(0.027)	
D.V.Krai	0.043		0.271		0.750		(1.315)	
	1.055		2.248		9.608		(17.738)	
c)Kazakhstan	0.082		0.824		2.794		(7.403)	
5/EPR	1.403		3.711		16.856		(31.506)	
All USSR	11.340		26.083		66.498		(96.928)	

Kolkhoz all grains production in mlns tons

	Year	NCR	SCR	SPR	CPR	EPR	USSR
71	1928	0.047	0.016	0.364	0.168	0.310	0.905
	1929	0.142	0.073	1.276	0.508	0.711	2.710
	1930	0.899	0.668	11.415	5.372	4.857	23.219
(86)	1928	0.048	0.016	0.3641	0.1689	0.3084	0.9041
	1929						
	1930	0.8723	0.8074	11.9456	5.1502	4.9946	23.770
	1931						
	1932	5.867	1.590	15.226	14.870	9.196	46.749
	1933						
	1934	(10.983)	(2.797)	(15.362)	(16.680)	(17.032)	(68.802)

All Kolkhozy grain sown area in mln. ha. from various sources

	Year	NCR	SCR	SPR	CPR	EPR	USSR
(7)	1928	0.048	0.018	0.462	0.204	0.304	1.036
	1929	0.130	0.080	1.384	0.696	1.100	3.391
	1930	0.938	0.859	12.616	7.377	6.081	27.870
	1931	5.077	1.889	21.343	19.688	13.786	61.783
(8b)	1928	0.05	0.017	0.46	0.203	0.304	1.04
	1929	0.13	0.079	1.38	0.70	1.100	3.39
	1930	0.94	1.045	13.91	7.39	6.401	29.69
	1931	5.12	1.818	19.03	19.62	14.16	61.02
	1932	7.02	2.389	20.75	23.86	15.11	69.12
	1933	8.89	2.403	22.18	25.72	15.78	74.96
	1934	10.47	2.748	23.49	27.41	16.83	80.85
(8c)	1934	10.97	2.658	23.49	27.25	16.49	80.85
	1935	12.79	3.039	23.70	27.51	17.40	84.43
(9)	1928	0.052	0.018	0.463	0.206	0.300	1.04
	1932	6.963	2.388	20.75	24.07	14.95	69.12
	1933	8.933	2.403	22.18	26.03	15.42	74.96
	1934	10.431	2.658	23.49	27.76	16.49	80.85
	1935	12.027	3.039	23.70	28.27	17.40	84.43
	1936	12.988	3.883	24.08	28.91	18.55	88.51
	1937	13.418	4.244	24.73	31.04	20.14	93.57
	1938	12.659	4.390	24.00	30.20	20.67	91.92

All Kolkhozy grain yields in tsentners per hectare (various sources)

	Year	NCR	SCR	SPR	CPR	EPR	USSR
(7)	1928	9.7	9.1	7.9	8.3	10.2	8.7
	1929	10.9	9.2	9.2	7.3	6.5	8.0
	1930	9.6	7.8	9.1	7.3	8.0	8.3
(8b)	1927						
	1928	9.9	9.5	7.9	8.3	10.1	8.7
	1929						
	1930	9.2	7.7	8.6	7.0	7.8	8.0
	1931						
	1932	~~10.6~~ 8.4	6.7	7.3	6.2	6.1	6.8
	1933						
	1934	(10.5)	(10.2)	(6.5)	(6.1)	(10.1)	(8.5)

Sources 8a, 8b

Kolkhoz all grains sown area in mlns ha. from Selskoe Khozyaistvo SSSR 1935g. M.1936, and Sotzialisticheskoe stroitelstvo SSSR.M.1936

1/ NCR	1928	1929	1930	1931	1932	1933	1934	1934 (8b)	1935 (8b)
a)N.&NW.									
Sev.Krai	0.002	0.010	0.078	0.321	0.499	0.612	0.740	0.740	0.876
Leningrad	0.004	0.010	0.072	0.463	0.535	0.719	0.943	0.851	1.047
Karelia ASSR	0.000	0.000	0.004	0.018	0.022	0.024	0.028	0.028	0.036
Zap.Ob.	0.010	0.024	0.167	1.136	1.411	1.718	2.068	1.697	1.959
Kalinin	-	-	-	-	-	-	-	0.933	1.159
	0.016	0.044	0.321	1.938	2.467	3.073	3.779	4.249	5.077
b)C.Ind									
Moscow	0.012	0.034	o.164	1.303	2.057	2.684	2.934	2.463	2.667
Ivanovo	0.003	0.011	0.072	0.527	0.667	0.982	1.120	1.120	1.321
Gorky K(x0.3)	0.011	0.063	0.371	1.613	2.278	3.068	3.696	1.612	1.988
Kirov K(excl)	-	-	-	-	-	-	-	2.287	2.571
	0.018	0.064	0.347	2.314	3.407	4.586	5.163	5.195	5.971
c) BSSR	0.014	0.023	0.276	0.868	1.147	1.231	1.524	1.524	1.739
1/ All NCR	0.048	0.131	0.944	5.129	7.021	8.899	10.466	10.958	12.787

2/SCR	1928	1929	1930	1931	1932	1933	1934	1934	1935
a)ZSFSR	0.006	0.027	0.255	0.634	0.837	0.682	0.817	0.817	0.984
b)C.Asia									
Uzbek.ASSR	0.006	0.028	0.494	0.467	0.616	0.862	0.992?	0.902	1.020
Turkm.ASSR	0.000	0.005	0.049	0.074	0.098	0.119	0.130	0.130	0.151
Tadzh.ASSR	0.000	0.002	0.042	0.316	0.354	0.214	0.248	0.248	0.283
KirgizASSR	0.005	0.017	0.205	0.313	0.474	0.507	0.542	0.542	0.581
KarakalpASSR	-	-	-	0.014	0.012	0.019	0.019	0.019	0.020
	0.011	0.052	0.790	1.184	1.552	1.721	1.931?	1.841	2.055
2/All SCR	0.017	0.079	1.045	1.818	2.389	2.403	2.748?	2.658	3.039

Kolkhoz all grains sown area in mlns ha. from Sel.Khoz SSSR, Ezhegodnik za 193
M.1936 & Sotz.Stroitelstvo SSSR, M.1936

3/SPR	1928	1929	1930	1931	1932	1933	1934	1934	1935
a)Ukraine:									
Ukraine	0.232	0.742	8.498	13.518	13.005	14.906	15.959	15.959	16.136
Crimea	0.026	0.082	0.363	0.459	0.629	0.606	0.686	0.686	0.648
	0.258	0.824	8.861	13.977	13.634	15.512	16.645	16.645	16.784
b)N.Caucasus									
N.Cauc.(old	0.205	0.560	5.048	6.324	7.112	6.668			
N.Cauc(new)							2.163	2.163	2.278
Azov-Chern.							4.680	4.680	4.634
	0.205	0.560	5.048	6.324	7.112	6.668	6.843	6.843	6.912
3/All SPR	0.463	1.384	13.901	19.031	20.746	22.180	23.498	23.496	23.706

4/CPR	1928	1929	1930	1931	1932	1933	1934	1934	1935
a)C.Ch.Zem									
C.Ch.Zem(old)	0.048	0.146	1.212	4.099	5.306	5.996			
Voronezh							3.790	3.790	3.902
Kursk							2.915	2.915	2.960
	0.048	0.146	1.212	4.099	5.306	5.996	6.705	6.705	6.862
b)Volga									
N.Volga Kr.	0.080	0.247	3.335	6.311	6.746	6.547			
Stalingrad							2.781	2.781	2.690
Saratov							3.503	3.503	3.599
Sr.Volga K.	0.046	0.171	1.921	5.202	6.233	6.408	6.925		
Tatar ASSR	0.008	0.023	0.189	1.189	1.936	2.267	2.456	2.456	2.497
BashkirASSr	0.014	0.066	0.473	1.694	2.045	2.351	2.454?	2.434	2.504
Gorky(70%)	0.007	0.044	0.260	1.129	1.594	2.148	2.587		
Kirov Krai								2.287	2.571
Kuibyshev K								4.730	4.503
Orenburg								2.351	2.284
	0.155	0.551	6.178	15.525	18.554	19.721	20.706	20.542	20.648
4/ All CPR	0.203	0.717	7.340	19.624	23.860	25.717	27.411	27.247	27.510

Kolkhoz all grain sown area in mln ha. from Sel.Khoz.SSSR, Ezhegodnik za 1935 M.1936 & Sotz.Stroi. SSSR, M.1936

8b

5/ EPR	1928	1929	1930	1931	1932	1933	1934	1934	1935
a)Urals									
Urals(old)	0.071	0.285	1.832	4.415	4.873	4.946			
Sverdlovsk							1.976	1.773	1.864
Chelyabinsk							2.830	2.353	2.354
Ob-Irtish							0.157		
	0.071	0.285	1.832	4.415	4.873	4.946	4.963	4.126	4.218
b)Siberia & FE.									
Zap.Sib.Krai	0.120	0.449	1.787	4.415	4.438	5.120	5.986	4.411	4.664
Vost.Sib.Kr.	0.020	0.081	0.354	0.970	1.234	1.318	1.523	1.072	1.172
Omsk								1.599	1.730
Krasnoyarsk								1.062	1.167
Yakut ASSR	-	-	0.003	0.015	0.033	0.045	0.053	0.053	0.062
D.Vostok Kr.	0.019	0.048	0.322	0.473	0.518	0.600	0.610	0.610	0.569
	0.159	0.578	2.466	5.873	6.223	7.083	8.172	8.807	9.364
c)Kazakstan	0.074	0.237	2.103	3.869	4.009	3.748	3.690	3.554	3.820
5/ All EPR	0.304	1.100	6.401	14.167	15.105	15.777	16.825	16.457	17.407
All USSR	1.04	3.39	29.69	61.02	69.12	74.96	80.85	80.85	84.43

Source 7

Kolkoz grain production from Nar.Khoz.SSSR, M.1932, pp166-9, 172-3

	1928			1929			1930		
	Sown area	yield	output	Sown area	yield	output	Sown area	yield	output
1/NCR									
a)N.andNW									
Sev.Krai	0.0025		0.0028	0.0102		0.0147	0.0775		0.0714
Leningrad	0.0041		0.0036	0.0098		0.0093	0.0892		0.0862
Zap.Ob	0.0096		0.0092	0.0236		0.0235	0.1544		0.1612
	0.0162	9.6	0.0156	0.0436	10.9	0.0475	0.3211	10.1	0.3168
b)C.Ind.									
Moscow	0.0122		0.0129	0.0339		0.0402	0.1580		0.1597
Iv.Prom.	0.0028		0.0035	0.0106		0.0130	0.0666		0.0726
Gorky(30%)	0.0032		0.0033	0.0188		0.0205	0.1133		0.1037
	0.0182	10.8	0.0197	0.0633	11.6	0.0737	0.3379	10.1	0.3360
c)BSSR	0.0138	8.2	0.0113	o.0234	8.9	0.0208	0.2787	8.8	0.2444
1/All NCR	o.o48	9.7	0.047	0.130	10.9	0.142	0.938	9.6	0.899
2/SCR									
a)ZSFSR	0.0064	9.8	0.0063	0.0271	9.3	0.0251	0.2286	10.3	0.2366
b)C.Asia									
C.Asia	0.0062		0.0045	0.0353		0.0304	0.4654		0.2993
Kirgiz ASSR	0.0054		0.0055	0.0172		0.0176	0.1646		0.1322
	0.0116	8.6	0.0100	0.0525	9.1	0.0480	0.6300	6.8	0.4315
2/All SCR	0.018	9.1	0.0163	0.080	9.2	0.073	0.859	7.8	0.668
3/SPR									
a)Ukraine									
Uk.SSR	0.2317		0.1760	0.7419		0.7399	8.2210		8.3816
Crimea	0.0255		0.0143	0.0823		0.0749	0.2281		0.0949
	0.2572	7.4	0.1903	0.8242	9.9	0.8148	8.4491	10.0	8.4765
b)N.Caucasus									
S.Kavkaz	0.2026		0.1714	0.5500		0.4518	4.1443		2.9176
Dagestan	0.0025		0.0025	0.0101		0.0096	0.0229		0.0210
	0.2051	11.8	0.1739	0.5601	8.2	0.4614	4.1672	7.1	2.9386
3/All SPR	0.462	7.9	0.364	1.384	9.2	1.276	12.616	9.1	11.415

Kolkhoz grain production from Nar.Khoz.SSSR, M.1932

	1928			1929			1930		
	Sown Area	yield	output	Sown area	yield	output	Sown area	yield	output
4/CPR									
a)C.Ch.Zem	0.0483	8.5	0.0412	0.1460	10.1	0.1480	1.3216	10.1	1.3408
b)Volga									
N.Volga Krai	0.0803		0.0629	0.2469		0.1539	3.1547		1.9194
Sr.Volgakr.	0.0461		0.0388	0.1708		0.0996	1.9213		1.2235
Tatar ASSR	0.0078		0.0061	0.0226		0.0150	0.1893		0.1382
Bashkir ASSR	0.0140		0.0116	0.0661		0.0434	0.5254		0.5079
Gorky (70%)	0.0074		0.0078	0.0439		0.0477	0.2643		0.2420
	0.1556	8.2	0.1272	0.5503	6.5	0.3596	6.0550	6.7	4.0310
4/All CPR	0.204	8.3	0.168	0.696	7.3	0.508	7.377	7.3	5.372
5/EPR									
a)Urals	0.0708	10.9	0.0770	0.2853	7.1	0.2023	1.6329	8.5	1.3957
b)Siberia									
Sib.Krai	0.1368		0.1414	0.5298		0.3163	2.0412		1.9244
D.V.Krai	0.0222		0.0186	0.0481		0.0597	0.3223		0.2575
	0.1590		0.1600	0.5779		0.3760	2.3635		2.1819
c)KazakASSR	0.0739	9.9	0.0730	0.2368	5.6	0.1326	2.0841	6.1	1.2794
5/All EPR	0.304	10.2	0.310	1.100	6.5	0.711	6.081	8.0	4.857
ALL USSR	1.036	8.7	0.905	3.391	8.0	2.710	27.870	8.3	23.219

Source 8b

Kolkhoz all grains production in mln tsentners from Sel.Khoz.SSSR 1935g.M.1936

	1928	1929	1930	1931	1932	1933	1934	1935
1/NCR								
a)N.and NW.								
Sev.Krai	0.028		0.688		4.598		(9.501)	
Leningrad	0.036		0.670		4.712		(10.121)	
Karelia ASSR	-		0.034		0.225		(0.322)	
Zap.Ob.	0.092		1.670		11.248		(19.447)	
Kalinin								
	0.156		3.062		20.783		(39.391)	
b)C.Ind.								
Moscow	0.129		1.590		18.512		(31.758)	
Ivanov	0.035		0.751		6.039		(13.612)	
Gorky(30%)	0.033		0.998		5.905		(11.011)	
	0.197		3.339		30.456		(56.381)	
c)BSSR	0.123		2.322		7.430		(14.060)	
1/All NCR	0.476		8.723		58.669		(109.832)	
2/SCR								
a)ZSFSR	0.063		2.524		5.743		(7.992)	
b)C.Asia								
Uzbek SSR			3.068		3.446		(9.721)	
Turk.SSR	0.045		0.541		0.807		(1.567)	
Tadzh SSR			0.378		2.353		(2.649)	
Kirgiz ASSR	0.054		1.563		3.555		(6.040)	
	0.099		5.550		10.161		(19.977)	
2/All SCR	0.162		8.074		15.904		(27.969)	
3/SPR								
a)Ukraine								
Uk.SSR	1.760		83.314		104.029		(95.101)	
Crimea	0.142		1.239		4.735		(4.237)	
	1.902		84.553		108.765		(99.338)	
b)N.Caucasus								
S.Kavkaz(old)	1.739		34.903		43.491		(-)	
Azov Chern.							(31.490)	
S.Kavkaz(new)							(22.793)	
	1.739		34.903		43.491		(54.283)	
3/All SPR	3.641		119.456		152.256		(153.621)	

Kolkhoz all grains production in mln tsentners from Sel.Khoz.SSSR 1935g.M1936

	1928	1929	1930	1931	1932	1933	1934	1935
4/CPR								
a)C.CH.Zem								
C.Ch.Zem	0.412		11.759		46.600			
Voronezh							(33.323)	
Kursk							(24.833)	
	0.412		11.759		46.600		(58.156)	
b)Volga								
N.Volga Kr.	0.627		19.694		28.107			
Sr.Volga Kr	0.388		11.962		33.777		(59.385)	
Tatar ASSR	0.069		1.345		14.652		(23.604)	
Bashkir ASSR	0.115		4.412		11.782		(26.797)	
Gorky (70%)	0.078		2.330		13.777		(25.692)	
Stalingrad							(13.148)	
Saratov							(19.400)	
Kuibyshev								
Orenburg								
Kirov								
	1.277		39.743		102.095		(108.641)	
	XXXX

6/Grain forage balances

a) Pre revolutionary grain forage balances

i) 1857-63 I.Vilson's regional grain forage balance

ii) 1917/18 A.E.Lositsky's preliminary regional grain forage balance

iii) Nifontov's grain forgge balances

iv) Kondratiev's grain forage balance

b) Post revolutionary grain forage balances

i) Preliminary grain forage balance for 1923/24

ii) Popov's grain forage balance for 1923/24

iii) The final grain forage balance for 1923/24

iv) The preliminary grain forage balance for 1924/25

v) The 1926/27 grain forage balance

vi) The 1927/28 grain forage balance

vii) The 1928/29 grain forage balance

viii) The 1928/30 grain forage balance

ix) Moshkov's grain forage balances for 1928-32

x) The first five year plan grain forage balance

5) Vilson's Grain forage balance for Russia in the 1860s in mln.chetverts and mln.tons

		Production			Utilisation				Balance		
	Population 1860	sowings	Yield	Production	Seed	Food & Feed	Industry	All	Surplus	Insuff	Balance
1.NCR											
Arkhangel G.	0.292	0.08		0.30		0.738	0.001			0.526	
Vologod G.	0.984	0.74		2.42		2.637	0.035			0.989	
Petrograd G.	1.182	0.54		1.91		2.920	0.024			1.573	
Pshov G.	0.719	0.96		2.94		2.062	0.027			0.112	
Novgorod G.	1.053	1.23		3.51		2.843	0.028			0.586	
Olonetsh G.	0.299	0.16		0.59		0.785	-			0.348	
Mogitiv G.	0.921	1.36		4.04		2.761	0.192			0.272	
Minsk G.	1.003	1.27		4.69		2.527	0.421		0.473		
Vitebsk G.	0.768	0.98		2.79		2.209	0.090			0.495	
Smolensk G.	1.139	1.79		5.17		3.476	0.120			0.213	
Vladimir G.	1.221	1.61		4.81		3.302	0.120			0.223	
Moskovsk G.	1.571	1.50		4.48		4.123	0.021			1.160	
Kaluzh G.	0.969	1.69		4.61		2.713	0.154		0.059		
Iversk G.	1.569	2.26		6.47		4.370	0.092			0.257	
Yaroslavsk G.	0.971	1.34		4.20		2.634	0.113		0.117		
Kostrom G.	1.073	1.56		4.45		3.038	0.069			0.211	
Esltyand G.	0.313	0.33		1.46		0.859	0.224		0.036		
Lifland G.	0.930	0.75		4.14		2.410	0.465		0.510		
All NCR	16.977	20.15	3.13	62.98	20.14	46.41	2.20	68.75	1.20	6.97	5.77
in mln.tons		2.54		7.94	2.55	5.84 (0.344)	0.28	8.67	0.15	0.88	-0.73
3.SPR											
Kievsk G.	2.014	1.64		8.05		4.763	0.474		1.168		
Podolsk	1.876	1.63		7.93		4.512	0.387		1.403		
Volyinsk	1.600	1.43		6.74		4.163	0.220		0.929		
Bessarab.	1.026	0.71		4.68		2.542	0.104		1.323		
Kherson	1.337	0.94		6.24		3.234	0.106		1.956		
Tavrich	0.607	0.45		2.65		1.635	-		0.570		
Ekaterin	1.204	0.97		5.62		2.970	0.104		1.575		
Donsk O.	0.951	1.07		4.89		3.059	0.032		0.734		
Kharkov G.	1.595	1.45		6.84		4.075	0.549		0.767		
Chernigov	1.487	1.81		7.73		4.767	0.440		0.711		
Poltava G.	1.919	2.01		8.75		4.629	0.338		1.769		
a) all Uk.	15.616	14.11	4.96	70.12	14.11	40.35	2.75	57.22	12.905	-	+12.905
in mln.tons		1.78		8.84	1.78	5.08 (0.325)	0.35	7.21	1.63		+1.63

		Production				Utilisation			Balance		
	Population 1860	sowings	Yield	Production	Seed	Food & Feed	Industry	All	Surplus	Insuff.	Balance
4.CPR											
Kursk	1.830	2.52		10.97		6.879	0.211		1.364		
Orlov	1.552	2.21		9.72		4.838	0.249		2.422		
Tula	1.152	1.78		6.73		3.412	0.172		1.358		
Ryazan	1.422	1.85		8.05		4.310	0.165		1.726		
Tambov	1.971	2.58		11.12		7.320	0.290		0.923		
Voronezh	1.945	2.62		11.24		5.681	0.467		2.468		
a) all to z.	9.872	13.56	4.27	57.83		32.44	1.55	6.00	10.261		
in mln.tons		1.71		7.29	1.71	4.09 (0.414)	0.20		1.29		+1.29
b)Samarsk	1.692	1.87		11.02		5.904	0.136		3.116		
Orenburg	1.845	1.98		11.72		6.611	0.250		2.880		
Astrakhan	0.376	0.12		0.52		0.829	-			0.430	
Simbirsk	1.187	1.44		7.45		3.442	0.117		2.457		
Saratov	1.695	1.92		10.77		4.933	0.381		3.534		
Pengersh	1.181	1.66		7.37		3.729	0.417		1.557		
Kazan	1.613	2.05		8.56		4.703	0.127		1.686		
N.Gor	1.285	1.79		6.70		3.502	0.121		1.286		
Ufims											
b) all CPR	10.874	12.83	5.00	64.11		33.65	1.55		16.516		
in mln.tons		1.62		8.08	1.61	4.24 (0.390)	0.20	6.05	2.08	0.05	+2.03
5.EPR											
Vyetsk	2.218	3.71		11.54		6.659	0.247		0.923		
Perm	2.142	2.24		8.36		6.006	0.177			0.058	
all EPR	4.360	5.95	3.34	19.90		12.678	0.42		0.928	0.06	+0.86
In mln.tons		0.75		2.51	0.75	1.60 (0.367)	0.05	2.40	0.12	0.01	+0.11
All	57.699	8.40		34.66	8.40	20.85	1.06	30.33	5.27	0.94	+4.24
excluded											
Vilinsk	0.900	1.01		3.82		2.425	0.187		0.201		
Grodno	0.893	0.93		3.94		2.208	0.461		0.334		
Kovensk	1.055	1.08		4.36		2.852	0.057		0.372		
Kurland	0.575	0.46		2.56		1.648	0.299		0.174		
All excluded	3.423	3.46		14.68		9.133	1.004		1.086		
In mln.tons		0.44		1.85	0.43	1.15	0.13	1.71	0.14		+0.14
All	60.99	70.02	4.14	289.58		174.65	9.48		42.89	7.45	+35.44
In mln.tons		8.82		36.49	8.82	122.01	1.19	32.02	5.40	0.94	+4.47

Source, I. Vilson, ibid, SPb 1869, pp

Regional grain and potato balances according to normed consumption and production in th.chetverts & mln.tons

	1860's		1870's		1880's (i)		1890's (i)		1880's (ii)		1890's (ii)	
	surplus	deficit	surplus	deficit	surplus	deficit	surplus	deficit	surplus	deficit	surplus	deficit
NCR(N)												
Severnyi	1090		1372			970		683		970		683
Sev.Zapadnyi	800		453		391		251		391		251	
Zapadnyi	233		3269		1957		5281		1957		5281	
Tsent.N.Ch.Zem	431		1961		1345		2041		1345		2041	
All NCR(N)	2554		3269	3786	3693	970	7573	683	3693	970	7573	683
in mln tons	(0.322)		(0.412)	(0.477)	(0.465)	(0.122)	(0.954)	(0.086)	(0.465)	(0.122)	(0.954)	(0.086)
SCR												
SPR(N)												
Levob.Ukr.	416		2083		1583		6924		1583		6924	
Pravob.Ukr.	70		2918		3695		5718		3695		6718	
Yuzh.Step.	2057		111		11454		25593		8213		21138	
All SPR(N)	2543		5112		16732		38235		13491		34780	
in mln tons	(0.320)		(0.644)		(2.108)		(4.818)		(1.700)		(4.382)	
CPR(N)												
Tsent.Ch.Zem	16618		22775		20476		21135		20476		21135	
Yug.Vost.Volga		729		972	668		684		668		684	
N.Volzhskii	4547		4252		5426		6458		3346		4103	
Sr.Volzhskii	2229		1989		2806		3769		2806		3769	
All CPR(N)	23394	729	29016	972	29376		32046		27296		29691	
in mln tons	(2.948)	(0.092)	(3.656)	(0.122)	(3.701)		(4.038)		(3.439)		(3.741)	
FPR(N&P)												
Priural	1238		3517		4273		12640		2950		11436	
Sibir	981		2055		2234		4344		2234		4344	
All FPR(N&P)	2219		5572		6507		16984		5184		15780	
in mln tons	(0.280)		(0.702)		(0.820)		(2.140)		(0.653)		(1.988)	
All USSR(N&P) in mln tons	(3.228)	(0.734)	(5.414)	(0.599)	(7.094)	(0.122)	(11.950)	(0.086)	(6.257)	(0.122)	(11.065)	(0.086)
Baltic Regions in mln tons	1238 (0.156)		1841 (0.232)		3076 (0.388)		5082 (0.640)		3076 (0.388)		5082 (0.640)	

Sources: A.S.Nifontov, Zernovoye Proizvodstvo Rossii...., M.1974, pp.207,296,297.
V.I.Pronin, Istoriya SSSR, 1977, No.4, p.70.

Possible Regional grain balance according to type of producer and normal consumption in th. chetverts in 34 provinces of European Russia in the 1850s.

	Landowners Surplus		Serfs Surplus		Serfs Deficit		State Peasants Surplus		State Peasants Deficit		All Surplus		All Deficit	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
1. NCR														
Severnyi	79	74	43	43	-	-	-	-	393	393	122	117	393	393
Sev. Zap	242	216	-	-	320	320			345	345	242	216	665	665
Zapadnyi	2,319	2,124	-	-	1,444	1,444			1,332	1,332	2,319	2,124	2,776	2,776
Tsent N Ch. Zem	1,820	1,735	269	269	-	-			868	868	2,089	2,004	868	868
1. All NCR	4,460	4,149	312	312	1,764	1,764	-	-	2,938	2,938	4,772	4,461	4,702	4,702
in mln. tons	(0.562)	(0.523)	(0.039)	(0.039)	(0.222)	(0.222)			(0.370)	(0.370)	(0.601)	(0.562)	(0.592)	(0.592)
2. SCR														
3. SPR														
Levoberezh.	2,538	2,444			720	1,110			952	1,492	2,538	2,444	1,672	2,602
Pravoberezh.	4,225	4,158			1,383	2,033			682	852	4,225	4,158	2,065	2,885
3. All SPR	6,763	6,602	-	-	2,103	3,143	-	-	1,634	2,344	6,763	6,602	3,737	5,487
in mln. tons	(0.852)	(0.832)	-	-	(0.265)	(0.396)	-	-	(0.206)	(0.295)	(0.852)	(0.832)	(0.471)	(0.691)
4. CPR														
Tsent Ch. Zem.	9,055	8,797	2,801	1,721	-	-	1,495	415	-	-	13,351	10,933	-	-
Yugo Vost. Volga	48	39	508	475	-	-	1,149	1,009	-	-	1,705	1,523	-	-
N. Volzhskii	589	578	513	461	-	-	590	410	-	-	1,692	1,449	-	-
S. Volzhskii	962	949	313	213	-	-	-	-	-	-	1,275	1,162	-	-
4. CPR	10,654	10,363	4,135	2,870	-	-	3,234	1,834	-	-	18,023	15,067		
in mln. tons	(1.342)	(1.306)	(0.521)	(0.361)	-	-	(0.407)	(0.231)	-	-	(2.271)	1.898	-	-
5. EPR														
Priural	30	21	320	320	-	-	3,979	3,979	-	-	4,329	4,329		
in mln. tons	0.004	0.003	0.040	0.040	-	-	0.501	0.501	-	-	(0.545)	(0.545)	-	-
Siberia											(0.197)	(0.197)	-	-
5. EPR (N & P)											(0.742)	(0.742)	-	-
USSR (N*)	21,907	21,135	4,767	3,502	3,867	4,907	7,213	5,813	4,572	5,282	33,887	30,450	8,439	10,189
in mln. tons	2.760	2.663	0.601	0.441	0.487	0.618	0.909	0.732	0.576	0.666	4.270	3.837	1.063	1.284
USSR (N* & P)											4.467	4.034	1.063	1.284

Rye, Wheat, Oats and Barley 1909/13

	Production			Consumption				
	Peasant	Landowner	All	Export	Urban	Ind.	All extra rural	Rural
1. NCR								
2. SCR								
3. SPR								
Rye	4.152	0.557	4.711	0.687	0.540	0.009	1.236	3.47
Wheat	8.903	1.958	10.862	5.340	1.269	0.002	6.611	4.25
Oats & Barley	8.877	1.840	10.718	3.807	0.171	0.110	4.088	6.63
3. All SPR	21.932	4.355	26.291	9.834	1.980	0.121	11.935	14.35
4. CPR								
Rye	7.457	0.791	8.250	1.608	0.348	0.047	2.003	6.24
Wheat	3.774	0.380	4.154	2.204	0.341	0.004	2.549	1.60
Oats & Barley	4.808	0.731	5.539	1.892	0.070	0.090	2.052	3.48
4. All CPR	16.039	1.902	17.943	5.704	0.759	0.141	6.604	11.33
5. EPR								
Rye	2.185	0.006	2.191	0.088	0.143	0.061	0.292	1.89
Wheat	2.125	0.007	2.132	0.233	0.086	0.004	0.323	1.80
Oats & Barley	1.859	0.004	1.862	0.121	0.024	0.163	0.308	1.55
5. All EPR	6.169	0.017	6.186	0.442	0.253	0.228	0.923	5.26
USSR-(NCR & SCR)								
Rye	13.794	1.354	15.152	2.383	1.031	0.117	3.531	11.62
Wheat	14.802	2.345	17.148	7.777	1.696	0.010	9.483	7.66
Oats & Barley	15.564	2.575	18.119	5.820	0.265	0.363	6.448	11.67
All USSR	44.140	6.274	50.420	15.980	2.992	0.490	19.462	30.95

Source: Calculated from data in N.D. Kondratiev, Rynok khlebov, M.1923, pp. 212-224.

Lositsky's preliminary Grain Forage Balance for 1917/18 in mln. pds. and mln. tons.

	Population		Production	Utilisation Rural				Urban	All Utilisation	Balance
	Urban & Rural	Rural Only		Seed	Feed	Personal	All			
1. NCR										
Severnyi	2.030	1.769	30.164	6.356	11.331	20.648	38.335		40.423	
Priozernyi	6.628	3.503	72.762	14.386	28.152	38.356	80.894		105.894	
Belorusski	8.150	6.746	145.511	38.657	54.660	64.682	157.999		169.321	
Tsent Prom.	11.544	7.703	93.081	29.388	45.845	84.057	159.290		190.018	
Prubalt	1.285	0.776	32.984	7.131	14.594	7.372	29.097		33.169	
1. All NCR	29.637	20.497	374.502	95.918	154.582	215.115	465.615		538.825	
in mln. tons			6.134	1.571	2.532	3.524	7.627	1.199	8.826	-2.692
2. SCR										
Zakavkaz	7.092	5.327	54.528	12.554	27.466	69.251	109.271		123.391	
Turkestan	7.267	6.004	56.217	11.979	9.436	78.052	99.467		109.571	
2. All SCR	14.359	11.331	110.745	24.533	36.902	147.303	208.738		232.962	
in mln. tons			1.814	0.402	0.604	2.413	3.419	0.397	3.816	-2.002
3. SPR										
Yugo Zapadnyi	9.593	7.130		40.435	50.502	95.821	186.758		211.388	
Malo rossuski	8.888	7.155		42.583	54.498	98.293	195.374		211.598	
Novorussiski	14.758	10.570		96.630	116.085	154.437	367.152		407.642	
Sev. Kavkaz.	5.503	4.452		39.160	52.194	69.874	161.228		171.566	
3. All SPR	38.742	29.307		218.808	273.279	418.425	910.512		1002.194	
in mln. tons			24.509	3.584	4.476	6.854	14.914	1.502	16.416	+8.093

Lositsky's preliminary Grain Forage Balance for 1917/18 in mln. pds. and mln. tons (continued)

	Population		Utilisation Rural							
	Urban & Rural	Rural Only	Production	Seed	Feed	Personal	All	Urban	All Utilisation	Balance
4. CPR										
Tsent Zemled.	15.594	13.509		86.504	84.454	181.761	352.719		373.402	
N. Volzhskii	7.022	5.950		44.514	76.726	79.674	200.914		210.188	
Sred. Volzhskii	14.249	12.108		78.723	82.139	162.786	323.648		341.350	
4. All CPR	36.865	31.567		209.741	243.319	424.221	877.281		924.940	
in mln. tons			13.781	3.436	3.986	6.949	14.370	0.781	15.151	-1.370
5. EPR										
Priural	7.057	6.147		53.983	53.195	81.550	188.728		196.008	
Zap. Sibir	6.199	5.562		46.016	98.827	87.740	232.583		238.953	
Vost. Sibir	3.541	2.668		19.378	72.741	38.644	130.763		138.679	
Steppe Krai	4.200	3.733		17.339	68.433	59.203	144.975		149.465	
5. All EPR	20.997	18.110		136.716	293.196	267.137	697.049		723.105	
in mln. tons			12.950	2.239	4.803	4.376	11.418	0.428	11.845	+1.105
All USSR	140.600	110.812	59.188	11.232	16.401	24.116	51.748	4.307	56.054	+3.134

Source: A. E. Lositsky, Urozhai khlebov v Rossii v 1917g. M.1918, pp. 29, 46, 47.

Lositsky's preliminary grain forage balance for 1917/18 in mln. tons.

	Population			Production in mln. tons	Utilisation in mln. tons.						Balance	Consumption norms		
					Rural							Personal		
	Rural	Urban	All		Seed	Feed	Personal	All	Urban	All		Rural	Urban	Feed per Rural Popln.
NCR	20.50	9.14	29.64	6.13	1.57	2.53	3.52	7.63	1.20	8.83	-2.69	0.172	0.131	0.124
SCR	11.33	3.03	14.36	1.81	0.40	0.60	2.41	3.42	0.40	3.82	-2.00	0.213	0.131	0.053
SPR	29.31	9.44	38.74	24.51	3.58	4.48	6.85	14.91	1.50	16.42	+8.09	0.234	0.159	0.153
CPR	31.57	5.30	36.87	13.78	3.44	3.99	6.95	14.37	0.78	15.15	-1.37	0.220	0.147	0.126
EPR	18.11	2.89	21.00	12.95	2.24	4.80	4.38	11.42	0.43	11.85	+1.11	0.242	0.148	0.265
USSR	110.81	29.79	140.60	59.19	11.23	16.40	24.12	51.75	4.31	56.05	+3.13	0.218	0.145	0.148

The preliminary grain forage balance for 1923/24 in million tons

from N. Dubenetsky E.O. 1924, No.8.

		Population in mlns.		Production		Rural Consumption				Surplus or Deficit from agr. cons.				Surplus or Deficit of Region	
		Rural	Urban	July 1	Moment of Threshing	Seed	Feed	Rural Food	All Rural	July 1	Moment of Threshing	Urban Cons.	General cons. of Region	July 1	Moment of Threshing
Consumer Region	NCR	21.76	6.20	5.34	5.34	1.48	1.05	4.21	6.74	-1.40	-1.40	1.22	7.95	-2.61	-2.61
	SCR														
Uk SSR		21.21	5.07	16.03	15.69	2.13	2.06	5.56 5.90	9.75 10.09	+6.28 +5.93	+5.94 +5.73	1.00	10.73 11.09	+5.28 +4.94	+4.95 +4.60
South East		6.34	1.33	4.22	4.19	0.65	0.60	1.59	2.84	+1.39	+1.35	0.26	3.16	+1.13	+1.09
	SPR	27.55	6.40	20.25	19.88	2.78	2.66	7.15 7.49	12.59 12.93	+7.67 +7.32	+7.29 +7.08	1.26	13.83 14.19	+6.41 +6.07	+6.04 +5.69
Producer Region	CPR	39.09	5.37	16.44	15.67	3.62	2.12	8.58	14.32	+2.11	+1.35	1.05	15.38	+1.06	+0.30
Sibirin		6.68	0.93	2.98	2.87	6.62	0.39	1.51 1.64	2.53 2.66	+0.45 +0.32	+0.34 +0.21	0.18	2.71 2.84	+0.27 +0.14	+0.16 +0.03
Kirgiz SSR		3.46	0.45	0.78	0.74	0.19	0.09	0.45 0.50	0.72 0.77	+0.06 +0.01	+0.01 -0.03	0.09	0.81 0.86	-0.03 -0.08	-0.08 -0.12
	EPR	10.14	1.38	3.76	3.61	0.81	0.48	1.96 2.14	3.25 3.43	+0.51 +0.33	+0.35 +0.18	0.27	3.52 3.70	+0.24 +0.06	+0.08 -0.09
	USSR	98.54	19.34	45.79	44.50	8.68	6.30	21.91 22.44	36.90 37.42	+8.89 +8.37	+7.60 +7.07	3.80	40.70 41.22	+5.09 +4.57	+3.80 +3.27

Note: Production of Sovkhozy, kolkhozy and towns excluded, consumption of town livestock also excluded.

Regional grain forage balance for 1923/24

	Gross prodn.	Balance after rural consumption	Regional balance
NCR Consumer Reg.	5.34	-1.40	-2.61
SPR Ukr SSR	16.03	+6.28	+5.28
South East	4.22	+1.39	+1.13
All SPR	20.25	+7.67	+6.41
CPR Producer Reg.	16.59	+2.24	+1.18
EPR Siberia	2.98	+0.45	+0.27
Kirgizia	0.73	+0.02	-0.07
All EPR	3.71	+0.47	+0.20
All USSR	45.90	+8.98	+5.18

Source: P.I. Popov, Sel. Khoz. Soyuza Respublik, M.1924, p.25.

The final grain forage balance for 1923/24 in mln. tons from Trudy TsSU, Tom XXIX, M.1926, pp. 54, 102, 125, 168

		Population in mlns.			Rural Consumption								Stocks Visible			
		Rural	Urban	Production	Seed	Feed	Rural Food	All Rural	Surplus of deficit from rural	Urban personal consumption	All stated Consumption	Balance	1/X/1923	1/X/1924		Balance
Consumer Reg.	NCR	23.82	7.56	7.08	1.73	1.70	5.17	8.60	-1.52	1.28	9.28	-2.80	0.202	0.279	+0.077	-0.285
Azerb SSR		1.51	0.54)													
Arm SSR		0.77	0.14)	1.69	0.23	0.22	0.95	1.40		0.21			0.029	0.015		
Georgia SSR		1.96	0.50)													
Turkestan SSR		4.48	0.71	1.59	0.15	0.20	1.05	1.40		0.13			0.004	0.038		
	SCR	8.72	1.89	3.28	0.38	0.42	2.0	2.80	+0.48	0.34	3.14	+0.14	0.033	0.053	+0.020	+0.12
Uk SSR		21.82	5.79	16.48	2.22	2.42	5.62	10.26		1.06			0.550	0.176		
Sev Kavkaz		6.34	1.33	4.40	0.60	0.72	1.69	3.01		0.29			0.414	0.196		
	SPR	28.16	7.12	20.88	2.82	3.14	7.31	13.27	+7.61	1.35	14.62	+6.26	0.964	0.372	-0.592	+6.85
Prod. Reg.	CPR	37.36	5.31	16.54	3.62	3.25	9.16	16.03	+0.51	1.08	17.11	-0.57	0.441	0.225	-0.216	-0.35
Sibir		7.49	1.00	3.83	0.77	0.73	1.99	3.49		0.35			0.104	0.042		
Kirgiz SSR		3.78	0.40	0.87	0.18	0.11	0.53	0.82		0.09			0.018	0.018		
Far East Reg.		1.09	0.44										0.017	0.030		
	EPR	12.36	1.84	4.70	0.95	0.84	2.52	4.31	+0.39	0.44	4.75	-0.05	0.139	0.090	-0.049	-
USSR	USSR	110.42	23.73	52.48	9.50	9.35	26.15	4.50	+7.48	4.48	49.48	+3.00	1.780	1.019	-0.761	3.76
													+0.694	+0.364	-0.330	4.09

The preliminary grain forage balance for 1924/25 in mln. tons.

From N. Dubenetsky in Nor Khoz. SSSR 1923/24g., M.1924, p.40.

		Population			Rural Consumption				Surplus or deficit from agr.	Urban cons.	General cons.	Surplus or deficit of region
		Rural	Urban	Prodn.	Seed	Feed	Rural food	All Rural				
Consumer Region	NCR	24.78		7.48	1.72	1.18	5.28	8.18	-0.70	1.43	9.61	-2.13
Turkestan & ZSFSR	SCR			2.99	0.37	0.46	1.99	2.81	+0.17	0.42	3.23	-0.24
UkSSR		22.51		12.24	2.16	1.69	5.38	9.23	+3.01	1.14	10.37	+1.87
Sev. Kavkaz		6.32		3.20	0.59	0.36	1.27	2.21	+0.98	0.30	2.52	+0.68
	SPR	28.83		15.44	2.75	2.05	6.65	11.44	+3.99	1.44	12.89	+2.55
Producer Region	CPR	37.70		14.33	3.56	1.67	7.72	12.95	+1.37	1.17	14.12	+0.20
Sibirin & FER		8.63		4.50	0.78	0.49	2.26	3.53	+0.97	0.35	3.88	+0.63
Kirgiz SSR		3.76		0.96	0.12	0.08	0.55	0.81	+0.15	0.11	0.93	+0.04
	EPR	12.33		5.46	0.90	0.57	2.81	4.34	+1.12	0.46	4.81	+0.67
All USSR		111.40		45.69	9.34	5.93	24.45	39.72	+5.96	3.29	44.65	+1.04

1926/27 Regional Grain Forage Balance

	Rural				Urban			
	Production	Consumption	Stock chnge	Balance	Consumption	Stock chnge	Balance	Regional Balance
1.Consumer Region	9.91	11.51	+0.30	-1.90	1.93	-0.04	-1.89	-3.79
BSSR	1.72	1.68	+0.04	-	0.24	-	-0.24	-0.24
1.All NCR	11.63	13.19	+0.34	-1.90	2.17	-0.04	-2.13	-4.03
2.ZSFSR	1.91	1.81	+0.04	+0.06	0.34	-0.02	-0.32	-0.26
Cent.Asia	1.18	1.33	+0.03	-0.18	0.31	+0.01	-0.32	-0.50
2.All SCR	3.09	3.14	+0.07	-0.12	0.65	-0.01	-0.64	-0.76
3.UkSSR	17.27	13.40	+0.47	+3.40	1.38	+0.11	-1.26	+2.14
Krym	0.44	0.31	-	+0.14	0.08	-0.02	-0.07	+0.07
Sev.Kavkaz	6.31	4.36	-0.11	+2.06	0.40	-0.17	-0.24	+1.83
Dag.	0.21	0.23	-	-0.02	0.02	-0.01	-0.01	-0.03
3.All SPR	24.23	18.3	+0.36	+5.58	1.88	-0.31	-1.58	+4.01
4.CPR								
Cent.chernozem	6.06	5.36	+0.04	+0.67	0.36		-0.35	+0.31
Nizh.Volzhski	3.19	2.34	+0.13	+0.72	0.27	+0.02	-0.30	+0.43
Sred.Volzhski	5.94	3.72	+0.88	+1.34	0.26	+0.06	-0.32	+1.02
Tatar Chuvash	2.28	2.00	+0.14	+0.13	0.12	+0.01	-0.13	+0.01
Bashkir	2.06	1.50	+0.21	+0.35	0.09	+0.03	-0.12	+0.23
Vyatski	2.56	2.46	+0.09	+0.01	0.08	+0.01	-0.08	-0.08
4.All CPR	22.09	17.38	1.49	3.22	1.18	+0.13	-1.30	+1.92
5.Urals	5.14	4.28	+0.22	+0.63	0.45	+0.10	-0.55	+0.09
Sibir	6.87	5.50	+0.04	+1.34	0.41	+0.05	-0.46	+0.88
Bur.Mongol.	0.24	0.22	+0.01	+0.02	0.02	-	-0.02	-
Dal.Vost.Krai	0.93	0.83	+0.05	+0.05	0.17	+0.02	-0.18	-0.14
Kazak.	3.42	2.21	+0.35	+0.85	0.12	+0.08	-0.20	+0.65
Kirgiz.	0.28	0.26	-0.01	+0.03	0.03	-	-0.03	-
5.All EPR	16.88	13.30	0.66	+2.92	1.20	+0.25	-1.44	+1.48
All USSR	77.90	65.30	+2.914	+9.69	7.07	+0.01	-7.08	+2.61

Source: Stat.Spravochnik SSSR.1928, M.1929, pp.278-235

1927/28 Regional Grain Forage Balance

	Rural				Urban			
	Prod-duc-tion	Con-sump-tion	Stock chnge	Bal-ance	Con-sump-tion	Stock chnge	Bal-ance	Regional Balance
1.Consumer Region	9.74	11.28	-	-1.55	2.13	+0.08	-2.21	-3.95
BSSR	1.79	1.67	+0.16	-0.04	0.24	+0.01	-0.24	-0.28
1.All NCR	11.53	12.95	+0.16	-1.59	2.37	+0.09	-2.45	-4.23
2.ZSFSR	1.61	1.74	-0.04	-0.09	0.35	-	-0.35	-0.44
Cent.Asia	1.09	1.44	-0.03	-0.31	0.31	+0.01	-0.33	-0.64
2.All SCR	2.70	3.18	-0.07	-0.40	0.66	+0.01	-0.68	-1.08
3.UkSSR	18.41	14.19	+0.25	+3.97	1.51	+0.02	-1.53	+2.31
Krym	0.45	0.31	+0.03	+0.12	0.09	-	-0.09	+0.03
Sev.Kavkaz	5.62	4.53	-0.21	+1.31	0.48	+0.01	-0.48	+0.83
Dag.	0.27	0.23	+0.01	+0.03	0.02	-	-0.02	+0.01
3.All SPR	24.75	19.26	-0.08	+5.43	2.10	+0.03	-2.12	+3.18
4.CPR								
Cent.chernozem	7.61	5.94	+0.24	+1.43	0.43	-0.01	-0.42	+1.01
Nizh.Volzhski	2.74	2.41	-0.09	+0.42	0.30	-0.01	-0.29	+0.13
Sred.Volzhski	3.58	3.57	-0.55	+0.55	0.27	-0.06	-0.21	+0.35
Tatar Chuvash.	2.18	1.97	+0.09	+0.12	0.12	-0.01	-0.11	+0.01
Bashkir	1.53	1.39	-0.08	+0.21	0.10	-0.03	-0.07	+0.14
Vyatski	2.32	2.32	-0.02	+0.01	0.8	-	-0.08	-0.07
4.All CPR	19.96	17.60	-0.41	+2.74	2.02	-0.12	-1.18	+1.57
5.Urals	4.18	3.91	-0.20	+0.47	0.46	-0.09	-0.37	+0.10
Sibir	6.31	5.55	-0.33	+1.09	0.41	-0.08	-0.33	+0.76
Bur.Mongol.	0.30	0.25	+0.06	-	0.02	-	-0.01	-0.01
Dal.Vost.Krai	1.03	0.92	+0.08	+0.03	0.17	-0.07	-0.10	-0.07
Kazak.	2.05	1.93	-0.18	+0.30	0.14	-0.09	-0.05	+0.25
Kirgiz.	6.33	0.29	+0.02	+0.02	0.03	-	-0.03	-0.02
5.All EPR	14.20	12.85	-0.55	+1.91	1.23	-0.33	-0.89	+1.01
All USSR	73.12	65.82	-0.79	+8.09	7.64	-0.33	-7.31	+0.45

1928/29 Regional Grain Forage Balance

	Rural				Urban			
	Production	Cons.	Stock Changes	Balance	Cons.	Stock Changes	Balance	Regional Balance
1. Consumer Region	9.15	10.96	-	-1.80	1.99	-	-1.99	-3.79
BSSR	1.75	1.72	-	+0.04	0.25	-	-0.25	-0.21
1. All NCR	10.90	12.68		-1.76	2.24		-2.24	-4.00
2. ZSFSR	1.82	1.82	+0.02	-0.02	0.36	-	-0.36	-0.39
Cent. Asia	1.47	1.48	+0.06	-0.07	0.34	-	-0.34	-0.41
2. All SCR	3.29	3.30	-0.08	-0.09	0.70		-0.70	-0.80
3. Uk SSR	13.10	12.69	-0.87	+1.29	1.56	-	-1.56	-0.27
Krym	0.34	0.29	-0.03	+0.08	0.10	-	-0.10	-0.02
Sev Kavkaz	5.37	4.41	-0.05	+1.01	0.44	-	-0.44	+0.57
Dag	0.19	0.22	-	-0.03	0.02	-	-0.02	-0.05
3. All SPR	19.00	17.61	-0.95	+2.35	2.12		-2.12	+0.23
4. Cent. Chernozem.	5.79	5.32	-0.18	+0.65	0.37	-	-0.37	+0.28
Nizhne Volzhskii	3.56	2.51	+0.09	+0.96	0.30	-	-0.30	+0.66
Sredne Volzhskii	5.51	3.87	+0.46	+1.19	0.28	-	-0.28	+0.91
Tatar Chuvash	2.23	2.05	-	0.17	0.12	-	-0.12	+0.06
Bashkir	2.23	1.55	+0.15	+0.53	0.11	-	-0.11	+0.42
Vyalskii	2.73	2.61	+0.06	+0.06	0.09	-	-0.09	-0.02
4. All CPR	22.05	17.91	+0.58	+3.56	1.27		-1.27	+2.31
5. Urals	4.98	4.13	+0.10	+0.75	0.49	-	-0.49	+0.26
Sibir	8.05	6.06	+0.33	+1.65	0.43	-	-0.43	+1.23
Bur. Mongol	0.24	0.27	-0.02	+0.02	0.02	-	-0.02	+0.01
Dal. Vost. Krai	0.90	0.95	-0.08	+0.03	0.17	-	-0.17	-0.14
Kazak.	3.50	2.23	+0.27	+1.01	0.13	-	-0.13	+0.88
Kirgiz	0.41	0.34	+0.03	+0.05	0.03	-	-0.03	+0.02
5. All EPR	18.08	13.98	+0.63	+3.51	1.27		-1.27	+2.26
All USSR	73.33	65.42	+0.34	+7.57	7.57	-	-7.57	-

Grain forage and processed grain balances for 1928-1930, from Materialyi po balansu... M.1932, pp 259-61

	1928			1929			1930		
	Grain	Processed Grain	All excluding double counting	Grain	Processed Grain	All excluding double counting	Grain	Processed Grain	All excluding double counting
Production	73.073	41.336	73.073*	71.734	39.850	71.734*	77.171	43.731	77.171
Imports	0.271	0.035	0.236	0.053	0.040	0.093	0.051	0.028	0.079
Stock in agriculture	32.238	8.902	41.140	34.859	8.443	43.302	30.365	6.908	37.273
In Industry	0.552	0.116	0.668	0.423	0.110	0.533	0.701	0.117	0.818
In circulation	1.218	0.443	1.661	2.064	0.588	2.652	8.542	0.845	9.387
All Stocks	34.006	9.461	43.467	37.344	9.140	46.484	39.604	7.869	47.473
All available	107.349	50.829	116.776*	109.131	49.032	118.311*	116.824	51.626	124.723
Utilisation									
Productive Agr. Seed	12.076	-	12.076	12.835	-	12.835	12.121	-	12.121
Feed	12.006	9.684	21.690	12.297	8.720	21.017	11.929	6.911	18.840
All agr.	24.082	9.684	33.766	25.133	8.720	33.852	24.050	6.911	30.961
Industry	43.919	2.292	4.875*	42.469	2.817	5.436*	47.634	4.348	8.251*
Transport	0.625	0.215	0.840	0.511	0.328	0.839	0.513	0.305	0.818
All Production	68.625	12.189	39.481	68.113	11.867	40.127	77.197	11.563	83.760
Consumption Agr.	0.887	26.846	27.733	0.632	26.855	27.487	-	26.271	26.271
Non Agr.	-	2.337	2.337	0.005	1.883	1.888	0.045	1.994	2.039
Authorities	0.242	0.280	0.522	0.313	0.456	0.768	0.286	0.530	0.816
All Consumption	1.129	29.459	30.592	0.950	29.211	30.161	0.331	28.795	29.126
Losses in circln.	0.041	0.016	0.057	0.047	0.068	0.115	0.081	0.097	0.178
In storage	0.124	-	0.124	0.164	0.004	0.168	0.248	-	0.248
Expert	0.088	0.020	0.108	0.261	0.015	0.271	4.843	0.023	4.866
Stocks in agr.	34.859	8.443	43.302	30.365	6.908	37.273	28.880	9.762	38.642
In industry	0.423	0.110	0.533	0.701	0.117	0.818	0.646	0.133	0.779
In circulation	2.064	0.588	2.652	8.542	0.845	9.387	9.318	1.253	10.571
All Stocks	37.344	9.140	46.484	39.604	7.869	47.473	39.151	11.149	50.300

Flour, Groats and Bran balance for 1928

	Wheat Flour	Rye Flour	Other Flour	All Flour	Millet Groats	Buckwheat	Other Groats	All Groats	Bran	All Processed Grain
Production	14.419	14.595	6.316	35.330	1.460	0.404	0.887	2.751	3.255	41.336
Imports							0.035			0.035
Stocks in agr.	2.169	4.628	0.450	7.247	0.633	0.121	0.025	0.779	0.876	8.902
in ind.	0.058	0.031	-	0.089	0.002	0.001	0.003	0.006	0.021	0.116
in circln.	0.217	0.127	0.037	0.381	0.023	0.026	0.013	0.062	-	0.443
All stocks	2.444	4.787	0.486	7.717	0.658	0.148	0.041	0.847	0.897	9.461
All available	16.863	19.381	6.802	43.046	2.119	0.551	0.962	3.632	4.151	50.829
Utilisation										
Productive Agr. seed	-	-	-	-	-	-	-	-	-	-
feed	0.237	2.785	3.405	6.427	0.041	0.007	0.053	0.101	3.156	9.684
All agr.	0.237	2.785	3.405	6.427	0.041	0.007	0.053	0.101	3.156	9.684
Ind.	1.578	0.714	-	2.292	-	-	-	-	-	2.292
Transport	-	0.063	0.030	0.093	-	0.001	-	0.001	0.121	0.215
All Productive	1.814	3.562	3.434	8.810	0.041	0.008	0.053	0.102	3.277	12.189
Consumption Agr.	10.896	11.049	2.720	24.665	1.274	0.260	0.647	2.181	-	26.846
Non Agr.	1.497	0.426	0.063	1.986	0.080	0.095	0.176	0.351	-	2.337
Authorities	0.070	0.166	-	0.236	0.020	0.020	0.004	0.044	-	0.280
All consumption	12.463	11.641	2.783	26.887	1.373	0.372	0.827	2.572	-	29.459
Losses in circln.	0.006	0.005	0.001	0.012	0.002	0.001	0.001	0.004	-	0.016
in storage	-	-	-	-	-	-	-	-	-	-
Export	0.016	0.001	0.001	0.018	0.001	-	-	0.001	0.001	0.020
Stocks in agr.	2.214	4.032	0.531	6.777	0.640	0.132	0.041	0.813	0.853	8.443
in ind.	0.056	0.034	-	0.090	0.001	0.001	0.008	0.010	0.010	0.110
in circln.	0.293	0.105	0.052	0.450	0.061	0.036	0.031	0.128	0.010	0.588
All stocks	3.563	4.171	0.583	7.317	0.701	0.168	0.081	0.950	0.873	9.140

Flour, Groats and Bran balance for 1929

	Wheat Flour	Rye Flour	Other Flour	All Flour	Millet Groats	Buckwheat	Other Groats	All Groats	Bran	All Processed Grain
Production	14.494	12.905	7.513	34.912	1.345	0.409	0.971	2.725	2.213	39.850
Imports	-	-	-	-	-	-	0.040	0.040	-	0.040
Stocks										
in agr.	2.214	4.032	0.531	6.777	0.640	0.132	0.041	0.813	0.853	8.443
in ind.	0.056	0.034	-	0.090	0.001	0.001	0.008	0.010	0.010	0.110
in circln.	0.293	0.105	0.052	0.450	0.061	0.036	0.031	0.128	0.010	0.588
All stock	2.563	4.171	0.583	7.317	0.701	0.168	0.081	0.950	0.873	9.140
All available	17.057	17.077	8.096	42.230	2.047	0.577	1.092	3.716	3.086	49.032
Utilisation										
Productive agr.										
seed	-	-	-	-	-	-	-	-	-	-
feed	0.207	2.212	3.588	6.007	0.036	0.006	0.044	0.086	2.627	8.720
All agr.	0.207	2.212	3.588	6.007	0.036	0.006	0.044	0.086	2.627	8.720
Industry	1.881	0.821	0.105	2.807	0.001	0.006	0.003	0.010	-	2.817
Transport	-	0.034	0.246	0.280	-	-	-	-	0.048	0.328
All productive	7.089	3.068	3.939	9.096	0.037	0.012	0.047	0.096	2.675	11.867
Consumption agr.	10.447	10.633	3.632	24.712	1.048	0.228	0.867	2.143	-	26.855
Non agr	0.976	0.415	0.063	1.454	0.212	0.155	0.062	0.429	-	1.883
Authorities	0.217	0.205	-	0.423	0.002	0.022	0.009	0.033	-	0.456
All consumption	11.640	11.253	3.695	26.588	1.281	0.404	0.938	2.623	-	29.211
Losses in circln.	0.040	0.018	0.003	0.061	0.003	0.002	0.002	0.007	-	0.068
in storage	-	-	-	-	-	-	-	-	0.004	0.004
Export	0.013	-	-	0.013	0.002	-	-	0.002	-	0.015
Stocks in agr.	2.831	2.450	0.383	5.664	0.672	0.139	0.051	0.867	0.377	6.908
in ind.	0.062	0.026	-	0.088	0.006	0.002	0.015	0.023	0.006	0.117
in circln.	0.384	0.026	-	0.088	0.006	0.002	0.015	0.023	0.006	0.117
All stocks	3.276	2.738	0.459	6.473	0.725	0.158	0.105	0.988	0.408	7.869

Flour, Groats and Bran balance for 1930

	Wheat Flour	Rye Flour	Other Flour	All Flour	Millet Groats	Buckwheat	Other Groats	All Groats	Bran	All Processed Grain
Production	13.729	16.298	8.133	38.160	1.478	0.316	1.679	3.473	2.098	43.731
Imports							0.028			0.028
Stock										
in agr.	2.831	2.450	0.383	5.664	0.672	0.139	0.056	0.867	0.377	6.908
in ind.	0.062	0.026	-	0.088	0.006	0.002	0.015	0.023	0.006	0.117
in circln.	0.384	0.262	0.075	0.721	0.047	0.017	0.035	0.099	0.025	0.845
All stock	3.276	2.738	0.459	6.473	0.725	0.158	0.105	0.988	0.408	7.869
All available	17.005	19.035	8.592	44.632	2.203	0.474	1.811	4.488	2.506	51.626
Utilisation										
Productive agr.										
seed	-	-	-	-	-	-	-	-	-	-
feed	0.054	1.710	3.007	4.771	0.040	0.002	0.021	0.063	2.077	6.911
All agr.	0.054	1.710	3.007	4.771	0.040	0.002	0.021	0.063	2.077	6.911
Industry	7.411	1.880	0.045	4.336	0.001	0.008	0.001	0.010	0.002	4.348
Transport	-	-	0.223	0.223	-	-	-	-	0.082	0.305
All productive	2.465	3.590	3.275	9.330	0.041	0.009	0.022	0.072	2.161	11.563
Consumption agr.	10.078	10.603	3.049	23.730	1.430	0.176	0.935	2.541	-	26.271
Non agr.	0.781	0.701	0.056	1.538	0.204	0.065	0.187	0.456	-	1.994
Authorities	0.251	0.220	0.003	0.474	0.019	0.025	0.012	0.056	-	0.530
All consumption	11.110	11.525	3.108	25.743	1.653	0.265	1.134	3.052	-	28.795
Losses in circln.	0.042	0.038	0.002	0.082	0.003	0.001	0.004	0.008	0.007	0.097
in storage	-	-	-	-	-	-	-	-	-	-
Export	0.016	-	-	0.016	0.004	-	0.003	0.007	-	0.023
Stocks in agr.	2.781	3.404	2.192	8.377	0.435	0.167	0.512	1.114	0.271	9.762
in ind.	0.079	0.026	-	0.105	0.006	0.002	0.014	0.022	0.006	0.133
in circln.	0.513	0.452	0.016	0.981	0.060	0.029	0.122	0.211	0.061	1.253
All stocks	3.373	3.882	2.208	9.463	0.502	0.198	0.648	1.348	0.338	11.149

Grain Balance for 1928, from Materialy po balansu.

	Wheat	Rye	Oats	Barley	Millet	Buckwheat	Maize	Other	All
Production	21.980	19.122	16.401	5.672	2.983	1.624	3.340	1.951	73.073
Imports	0.245	-	-	-	-	-	-	0.026	0.271
Stock in agr.	9.306	7.408	9.053	2.563	1.160	0.767	1.625	0.356	32.238
in ind.	0.218	0.238	0.005	0.025	0.006	0.014	0.045	0.001	0.552
in circln.	0.579	0.191	0.204	0.056	0.023	0.035	0.093	0.037	1.218
All Stocks	10.102	7,838	9.262	2.644	1.189	0.815	1.762	0.394	34.006
All Available	32.327	26.959	25.663	8.316	4.173	2.439	5.102	2.370	107.349
Utilisation									
Productive agr.									
seed	3.629	3.640	2.862	0.910	0.165	0.339	0.090	0.441	12.076
feed	0.680	0.529	8.025	1.031	0.238	0.077	1.304	0.122	12.006
All agr.	4.309	4.169	10.888	1.941	0.403	0.416	1.393	0.563	24.082
Ind.	16.919	15.487	2.243	2.877	2.512	1.131	1.836	0.914	43.919
Transport	-	-	0.454	0.171	-	-	-	-	0.625
All Production	21.228	19.655	13.585	4.989	2.915	1.547	3.229	1.477	68.625
Consumption agr.	0.308	0.495	-	0.084	-	-	-	-	0.887
Non agr.	-	-	-	-	-	-	-	-	-
Authorities	-	-	0.242	-	-	-	-	-	0.242
All Consumption	0.308	0.495	0.242	0.084	-	-	-	-	1.129
Losses									
in circln.	-	-	0.024	-	0.004	0.004	0.006	0.003	0.041
in storage	0.082	0.033	-	0.009	-	-	-	-	0.124
Export	0.003	0.010	-	-	-	-	0.006	0.069	0.088
Stocks in agr.	9.502	6.454	11.348	3.075	1.162	0.837	1.717	0.764	34.859
in ind.	0.175	0.106	0.017	0.052	0.009	0.006	0.056	0.002	0.423
in circln.	1.029	0.207	0.448	0.107	0.083	0.045	0.088	0.057	2.064
All Stocks	10.705	6.766	11.813	3.234	1.254	0.888	1.861	0.823	37.344

Grain balance for 1929

	Wheat	Rye	Oats	Barley	Millet	Buckwheat	Maize	Other	All
Production	18.878	20.350	15.734	7.214	3.113	1.514	3.019	1.907	71.734
Imports	0.021	-	-	-	-	-	-	0.032	0.053
Stock in agr.	9.502	6.454	11.348	3.075	1.162	0.837	1.717	0.764	34.859
in ind.	0.175	0.106	0.017	0.052	0.009	0.006	0.056	0.002	0.423
in circln	1.029	0.207	0.448	0.107	0.083	0.045	0.088	0.057	2.064
All stock	10.705	6.766	11.813	3.234	1.254	0.888	1.861	0.823	37.344
All available	29.605	27.125	27.553	10.447	4.366	2.402	4.879	2.761	109.131
Utilisation									
Productive agr.									
seed	3.812	3.812	3.117	0.995	0.163	0.326	0.074	0.536	12.835
feed	0.542	0.420	8.845	0.917	0.211	0.072	1.155	0.135	12.297
All agr.	4.354	4.232	11.963	1.912	0.374	0.398	1.229	0.671	25.133
Industry	15.905	13.515	2.801	4.072	2.466	1.151	1.781	0.778	42.469
Transport	-	-	0.460	0.051	-	-	-	-	0.511
All Productive	20.259	17.747	15.224	6.034	2.840	1.549	3.010	1.449	68.113
Consumption agr.	0.212	0.342	-	0.078	-	-	-	-	0.632
Non agr.	-	-	-	-	-	-	-	0.005	0.005
Authorities	-	-	0.310	-	-	-	-	0.003	0.313
All consumption	0.212	0.342	0.310	0.078	-	-	-	0.008	0.950
Losses									
in circln.	-	-	0.047	-	-	-	-	-	0.047
in storage	0.076	0.044	-	0.023	0.008	0.004	0.006	0.003	0.164
Export	-	0.001	0.008	0.159	-	-	0.011	0.082	0.261
Stocks in agr.	6.414	6.647	4.672	3.017	1.219	0.747	1.554	1.095	30.365
in ind.	0.221	0.108	0.067	0.150	0.050	0.010	0.088	0.007	0.701
in circln.	2.423	2.237	2.225	0.987	0.249	0.092	0.211	0.118	8.542
All stocks	9.057	8.992	11.963	4.153	1.518	0.849	1.852	1.220	39.604

Grain balance for 1930

	Wheat	Rye	Oats	Barley	Millet	Buckwheat	Maize	Other	All
Production	24.611	21.918	15.395	6.463	2.698	1.146	2.570	2.370	77.171
Imports	0.007	-	-	-	-	-	-	0.044	0.015
Stocks									
in agr.	6.414	6.647	9.672	3.017	1.219	0.747	1.545	1.095	30.365
in ind.	0.221	0.108	0.067	0.150	0.050	0.010	0.088	0.007	0.701
in circln.	2.423	2.237	2.225	0.987	0.249	0.092	0.211	0.118	8.542
All stocks	9.057	8.992	11.963	4.153	1.518	0.849	1.852	1.220	39.604
All available	33.675	30.909	27.358	10.616	4.216	1.995	4.421	3.634	116.824
Utilisation									
Productive agr.									
seed	3.901	3.764	2.756	0.865	0.139	0.243	0.077	0.376	12.121
feed	0.438	0.380	8.619	0.805	0.256	0.077	1.033	0.321	11.929
All agr.	4.339	4.144	11.374	1.670	0.394	0.320	1.110	0.698	24.050
Ind.	15.556	17.461	2.808	4.494	2.522	0.987	2.169	1.635	47.634
Transport	-	-	0.466	0.047	-	-	-	-	0.513
All productive	19.895	21.606	14.648	6.211	2.916	1.307	3.279	2.332	72.197
Consumption agr.	-	-	-	-	-	-	-	-	-
Non agr.	-	-	-	-	-	-	-	0.045	0.045
Authorities	-	-	0.277	-	-	-	-	0.009	0.286
All consumption	-	-	0.277	-	-	-	-	0.054	0.331
Losses									
in circln.	-	-	0.081	-	-	-	-	-	0.081
in storage	0.115	0.078	-	0.032	0.008	0.003	0.007	0.005	0.248
Export	2.531	0.646	0.353	1.181	-	-	0.054	0.078	4.843
Stocks									
in agr	7.953	5.945	9.280	2.414	0.995	0.539	0.803	0.951	28.880
in ind.	0.221	0.108	0.067	0.150	0.062	0.011	0.020	0.007	0.646
in circln.	2.961	2.527	2.673	0.628	0.235	0.013	0.260	0.021	9.318
All stocks	11.135	8.580	12.020	3.192	1.292	0.685	1.082	1.165	39.151

Moshkov's Grain Forage Balance.

	1928	1929	1930	1931	1932
Production	73.073	71.742	77.170	68.000	67.100
Imports	0.328	0.119	0.096	0.056	0.061
Stocks in agriculture	41.285	42.916	36.698	37.857	31.790
in Ind. & circln.	2.393	3.303	10.320	11.833	14.048
All Stocks	43.678	46.219	47.018	49.690	45.837
All Available	117.078	118.080	124.284	117.746	112.998
Utilisation					
Productive Agr. Seed	12.076	12.835	12.120	12.587	11.218
Feed	18.534	18.297	16.640	13.280	12.366
All Agriculture					
Ind.	1.500	1.550	1.600	1.850	1.650
Transport	1.250	1.281	1.426	1.180	1.100
Urban	0.614	0.686	0.593	0.473	0.334
All Productive					
Consumption Agr.	31.222	30.349	29.913	28.444	26.000
Non Agr.	5.370	5.498	7.018	8.313	9.254
Authorities	-	-	-	-	-
All Consumption	36.592	35.847	36.931	36.756	35.254
Losses	0.184	0.289	0.412	0.600	0.500
Export	0.110	0.277	4.872	5.182	2.200
Stocks in agr.	42.916	36.698	37.857	31.790	31.010
in Ind. & cirln.	3.303	10.320	11.833	14.048	17.366
All Stocks	46.219	47.018	49.690	45.837	48.377

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The First Five-year Plan grain forage balance

		1927/28 actual	1932/33 plan basic	1932/33 plan optimal
Gross output		73.12	99.66	105.78
Expenditure				
	Seed	12.28	14.48	13.76
	Food	27.32	32.26	31.59
	Feed	23.3	31.0	35.2
	Others	2.93	3.32	3.2
	Total	65.83	81.06	83.76
Urban				
	Food	4.99	6.17	6.12
	Feed & Seed	1.64	2.28	1.95
	Industry & Army	1.01	1.5	1.51
All Expenditure		73.47	91.01	93.34
Stock accumulation				
	Invisible	-0.79	+1.55	+2.41
	Visible	-	+0.72	+1.06
	Special Fund	-	+1.47	+0.85
	Total	-0.79	+3.74	+4.32
Exports (+) or Imports (-)		+0.44	+4.91	+8.12

Source: Pyatiletnyi plan razvitiya Nar.khoz.SSSR, Tom.2, chast 1. M.1929, p.333.

7/ Grain Transportation data

a) 1909-13 V.G.Groman in Entsiklopediya Russkogo Eksporta, Tom 1, Berlin 1924, pp 162-73.

b) 1901, 1913, 1920-22 (including & excluding foreign trade) Trudy TsSU, Tom XIX, vyp II, M 1925, pp 6-11.

c) 1913-1917 (excluding foreign trade), very incomplete. Trudy TsSU, Tom VI, vyp 2, M. 1923, pp 169-170.

d) 1913, 1922/23-1926/27 and 1927/28 (including foreign trade only) from G.Vasilyev, 'Khlebniye perevozki (1922/23-1927/28 gg. i 1913 g.)', in S.O., 1928, No.8, pp.68,72

e) 1927/28, 1928/29 (excluding foreign trade only) from G.Vasilyev, 'Khlebn perevozki 1927/28 i 1928/29 gg.', in S.O., 1929, No.8, p.83.

f) 1928/29-1929/30 (including foreign trade only) from Narodnoye Khozyaist SSSR, M.1932, p.268.

g) 1928-31 (excluding foreign trade only) from Dinamika i geografiya gruzovogo dvizheniya na putyakh soobshcheniya SSSR 1928-31gg., M.1932, pp. 15-7.

h) The full transport balance (Chessboard) for 1928/29 from Narodnoye Khoz. SSSR, M.1932, pp.266-7.

1909-13 Wheat

Regional transport balance 1909/13

Source a

	Wheat				Wheat flour in grain equivalent			
	Export		Import		Export		Import	
	All	Abroad	All	Abroad	All	Abroad	All	Abroad
1. NCR								
N & NW	12.93	2.08	14.58	0.01	6.13	3.30	31.59	3.38
Zap (remaining)	0.93	-	0.84	-	1.90	-	16.30	-
Tsent Prom	4.30	-	37.06	-	36.94	-	57.67	-
1. NCR	18.15	2.08	52.48	0.01	44.97	3.36	105.56	3.38
in mln. tons	(0.30)	(0.03)	(0.86)	-	(0.74)	(0.06)	(1.73)	(0.06)
3. SPR								
Ukraine	394.58	187.23	214.75	9.14	126.10	20.16	41.40	4.27
N. Cauc.	100.21	41.91	37.31	0.18	19.17	3.04	4.74	8.03
3. All SPR	494.78	229.14	252.06	9.32	145.27	23.20	46.15	5.07
in mln. tons	(8.10)	(3.75)	(4.13)	(0.15)	(2.38)	(0.38)	(0.76)	(0.08)
4. CPR								
Tsent Zemled	6.03	-	13.75	-	12.87	-	19.02	-
N. Volzh & SE	132.51	1.84	68.13	-	76.47	3.42	26.53	0.61
4. All CPR	138.53	1.84	81.87	-	89.34	3.42	45.55	0.61
in mln. tons	(2.27)	(0.03)	(1.34)	-	(1.46)	(0.06)	(0.75)	(0.01)
5. EPR								
Priural	73.14	-	11.58	-	11.20	-	24.00	-
Asiatic R.	45.05	1.78	48.84	9.76	45.04	7.19	67.86	15.00
5. All EPR	52.37	1.78	60.42	9.76	56.24	7.19	91.86	15.00
in mln. tons	(0.86)	(0.03)	(0.99)	(0.16)	(0.92)	(0.12)	(1.50)	(0.25)
All USSR	11.54	3.84	7.32	0.31	5.50	0.62	4.74	0.40
All Empire	737.85	270.90	490.26	197.48	342.49	37.49	335.19	27.68
in mln. tons	(12.09)	(4.44)	(8.03)	(0.32)	(5.61)	(0.61)	(5.61)	(0.61)
USSR	706.10	243.20	455.75	180.91	336.23	37.18	304.94	26.11
in mln. tons	(11.57)	(4.00)	(7.47)	(0.30)	(4.41)	(0.61)	(5.00)	(0.43)

Source: V.G. Groman, 'Khlebnaya produk'siya i khlebnyi eksport Rossii', in Entsiklopediya Russkoyo Eksporta, Tom I, Berlin, 1924, pp. 162-73 Based on Materialyi k prodovolstvennomu planu, Proizvodstvo, perevozki i potrebleniye khlebov v Rossii, Petrograd 1917, vyp.1.

1909-13 Rye

Regional transport balance 1909/13

	Rye				Rye flour in grain equivalent			
	Export		Import		Export		Import	
	All	Abroad	All	Abroad	All	Abroad	All	Abroad
1. NCR								
Sev Sev Zap &	6.47	5.86	15.81	0.17	9.40	5.49	31.59	1.47
Zap (remaining)	2.43	-	5.14	-	2.56	-	5.87	-
Tsent Prom	4.84	-	26.92	-	19.35	-	46.91	-
1. All NCR	13.74	5.86	47.87	0.17	31.31	5.49	84.37	1.47
in mln. tons	(0.23)	(0.10)	(0.78)	-	(0.51)	(0.09)	(1.38)	(0.02)
3. SPR								
Ukraine	78.19	30.31	35.69	1.42	9.41	0.31	3.46	0.18
Pred Kavkoz	7.91	1.13	16.00	6.42	7.71	0.04	7.09	-
3. All SPR	8.61	31.44	51.69	7.84	17.12	0.35	10.55	0.18
in mln. tons	(1.41)	(0.51)	(0.85)	(0.13)	(0.28)	(0.01)	(0.17)	-
4. CPR								
Tsent Zemled	20.06	-	13.89	-	29.29	-	5.71	-
Yugo Vost & N. Volzhskii	21.04	0.83	10.47	-	22.20	0.38	4.36	0.14
4. All CPR	41.10	0.83	24.36	-	51.49	0.38	10.07	0.14
in mln. tons	(0.67)	(0.01)	(0.40)	-	(0.84)	(0.01)	(0.16)	-
5. EPR								
Priural	26.84	-	3.45	-	17.42	-	4.31	-
Asiatic R.	3.90	0.08	4.80	1.48	2.54	0.32	2.50	0.48
5. All EPR	30.74	0.08	8.25	1.48	19.96	0.32	6.81	0.48
in mln. tons	(0.50)	-	(0.14)	(0.02)	(0.33)	(0.01)	(0.11)	(0.01)
USSR in mln. tons	2.81	0.62	2.17	0.15	1.96	0.12	1.82	0.03
All Empire	181.06	42.71	149.09	10.45	126.04	10.75	118.36	2.79
in mln. tons	(2.96)	(0.70)	(2.44)	(0.17)	(2.06)	(0.18)	(1.94)	(0.05)
USSR	168.19	39.77	121.35	3.10	112.57	6.53	108.52	2.55
in mln. tons	(2.75)	(0.65)	(1.99)	(0.05)	(1.84)	(0.11)	(1.78)	(0.04)

1909/13 Barley Regional Transport Balance

	Barley				Oats			
	Export		Import		Export		Import	
	All	Abroad	All	Abroad	All	Abroad	All	Abroad
1. NCR								
Sev Sev Zap	0.10	0.03	1.31	0.12	25.74	22.07	47.18	0.10
Zap (remaining)	0.75	-	0.78	-	7.67	-	4.64	-
Tsent Prom	0.31	-	2.36	-	7.51	-	32.87	-
1. All NCR	1.17	0.04	4.66	0.13	40.33	22.07	84.70	0.10
in mln. tons	0.02	-	0.07	-	0.66	0.36	1.39	-
3. SPR								
Ukraine	324.96	180.44	140.35	10.38	29.26	7.55	21.58	0.93
Pred Kavkaz	64.90	36.93	24.36	0.17	4.28	1.87	2.43	0.23
3. All SPR	389.86	217.37	164.72	10.55	33.55	9.42	24.01	1.16
4. CPR								
Tsent Zemled	0.37	-	0.46	-	88.61	-	5.42	-
Yugo Vost & N. Vol.	0.74	0.02	1.22	-	16.38	0.49	8.42	-
4. All CPR	1.11	0.02	1.68	-	104.99	0.49	13.84	-
in mln. tons	0.02	-	0.03	-	1.72	0.01	0.23	-
5. EPR								
Priural	0.53	-	0.82	-	30.34	-	8.11	-
Pribaltic	7.22	2.96	7.87	2.85	11.97	0.34	13.90	1.50
5. All EPR	7.75	2.96	8.68	2.85	42.32	0.34	22.00	1.50
in mln. tons	0.13	0.05	0.14	0.05	0.69	0.01	0.36	0.02
USSR in mln. tons	6.56	3.61	2.94	0.22	3.62	0.53	2.37	0.04
All Empire	426.98	239.65	201.21	13.84	262.14	68.71	198.44	4.00
in mln. tons	6.99	3.93	3.30	0.23	4.29	1.13	3.25	0.07
USSR	407.66	228.02	185.60	13.59	222.65	32.74	148.39	3.06
in mln. tons	6.68	3.74	3.04	0.22	3.64	0.54	2.43	0.05

Grain transportation for export or importation from abroad, by region, in 1909/13 in million tons

	Wheat	Wheat flour	Rye	Rye flour	Oats	Barley	Maize	Millet	Millet groats	Buckwheat	Buckwheat groats	All 7 Main Grains	4 Main Grains
Export (abroad)													
1. NCR	0.03	0.06	0.10	0.09	0.36	-	0.03	-			0.02		0.64
3. SPR	3.75	0.38	0.51	0.01	0.15	3.56	0.69	0.02		0.02			8.36
4. CPR	0.03	0.06	0.01	0.01	0.01	-	-	-					0.12
5. EPR	0.03	0.12	-	0.01	0.01	0.05	0.11	-					0.22
All USSR	3.84	0.62	0.62	0.12	0.53	3.61	0.80	0.02		0.02	0.02		9.34
All Empire	4.44	0.62	0.70	0.18	1.13	3.93	0.84	0.03		0.05	0.02		11.00
Imports (from abroad)													
1. NCR	-	0.06	-	0.02	-	-	0.04						0.08
3. SPR	0.15	0.08	0.13	-	0.02	0.17	0.05						0.55
4. CPR	-	0.01	-	-	-	-	-						0.01
5. EPR	0.16	0.25	0.02	0.01	0.02	0.05	0.03						0.51
All USSR	0.31	0.40	0.15	0.03	0.04	0.22	0.08						1.15
All Empire	0.32	0.61	0.17	0.05	0.07	0.23	0.09	0.02					1.45
Balance													
1.NCR	0.03		0.10	0.07	0.36	-	-0.01	-					+0.56
3.SPR	3.60	0.30	0.38	0.01	0.13	3.39	0.64	0.02					+7.81
4. CPR	0.03	0.05	0.01	0.01	0.01	-	-	-					+0.11
5. EPR	-0.13	-0.13	-0.02		-0.01	-	0.08	-					-0.29
All USSR	3.53	0.22	0.47	0.09	0.49	3.39	0.72						+8.19
All Empire	4.12	0.01	0.53	0.13	1.06	3.70	0.75						+9.55

Grain transportation by region in 1909/13 in million tons

	Wheat	Wheat Flour	Rye	Rye Flour	Oats	Barley	All
Despatches							
1. NCR	0.30	0.74	0.23	0.51	0.66	0.02	2.46
3. SPR	8.11	2.38	1.41	0.28	0.55	6.39	19.12
4. CPR	2.27	1.46	0.67	0.84	1.72	0.02	6.98
5. EPR	0.86	0.92	0.50	0.33	0.69	0.13	3.37
All USSR	11.54	5.50	2.81	1.96	3.62	6.56	31.99
All Empire	12.09	5.61	2.96	2.06	4.29	6.99	34.00
Receipts							
1. NCR	0.86	1.73	0.78	1.38	1.39	0.07	6.21
3. SPR	4.13	0.76	0.85	0.17	0.39	2.70	9.00
4. CPR	1.34	0.75	0.40	0.16	0.23	0.03	2.91
5. EPR	0.99	1.51	0.14	0.11	0.36	0.14	3.25
All USSR	7.32	4.74	2.17	1.82	2.37	2.94	21.36
All Empire	8.03	5.61	2.44	1.94	3.25	3.30	24.57
Balance							
1. NCR	-0.56	-0.99	-0.55	-0.87	-0.73	-0.05	-3.75
3. SPR	+3.98	+1.62	+0.56	+0.11	+0.16	+3.69	10.12
4. CPR	+0.93	+0.71	+0.27	+0.68	+1.49	-0.01	4.07
5. EPR	-0.13	-0.59	+0.36	+0.22	+0.33	-0.01	0.12
All USSR	+4.22	0	+0.64	+0.14	+1.25	+3.62	10.63
All Empire							9.43

Grain transport balance 1901, 1913, 1920-22, in million pds and million tons (in brackets) from Trudy TsSU, Tom XIX, vyp II, M.1925, pp. 6-11.

	Balance including foreign trade					Balance excluding foreign trade				
	1901	1913	1920	1921	1922	1901	1913	1920	1921	1922
1. NCR										
Severo Zapadnyi	- 91.28	- 95.33	-16.35	-28.30	-36.58	- 93.10	-122.87	- 7.74	-16.65	-13.96
Severo Vost.	- 1.49	- 9.06	- 1.57	- 1.26	- 2.78	- 7.75	- 11.36	- 1.34	- 0.46	- 1.14
Zapadnyi	- 13.02	- 33.21	-15.05	- 0.83	+ 7.09	- 13.02	- 33.21	-14.68	+ 0.25	+11.66
Tsent Prom	- 67.97	-127.05	-43.54	-24.96	-46.38	- 67.97	-127.05	-43.54	-24.96	-46.39
All NCR	-173.76	-264.64	-76.52	-55.34	-78.67	-181.84	-294.49	-67.3	-41.61	-49.83
	(-2.85)	(-4.33)	(-1.25)	(-0.91)	(-1.29)	(-2.98)	(-4.82)	(-1.10)	(-0.68)	(-0.82)
2. SCR										
Kavkaskii	+ 13.42	+ 99.37	+ 4.18	- 0.22	+ 6.68	- 26.61	+ 38.88	+ 4.37	- 0.09	+15.72
Turkestan	- 2.30	- 18.06	+ 0.82	+ 3.17	+ 0.37	- 2.17	- 17.59	+ 0.82	+ 3.17	+ 0.37
All SCR	+ 11.12	+ 81.31	+ 5.00	+ 2.95	+ 7.05	- 28.78	+ 21.29	+ 5.19	+ 3.08	+16.09
	(+0.18)	(+1.33)	(+0.08)	(+0.05)	(+0.12)	(-0.47)	(-0.35)	(+0 09)	(+0.05)	(+0.26)
3. SPR										
Yugo zapadnyi	+177.12	+269.06	+ 2.59	+20.35	+62.59	+ 88.98	+ 43.92	+ 2.59	+20.46	+65.72
Yuzhno GornoProm	+ 60.74	+ 46.65	- 3.51	- 3.19	- 7.66	- 3.79	- 43.15	- 3.51	- 3.14	- 3.55
Yugo Vostochnyi	+ 44.73	+188.25	+65.8	-14.99	- 8.50	+ 44.71	+ 82.45	+ 6.58	-14.29	- 8.49
All SPR	+282.59	+503.96	+ 5.66	+12.17	+46.43	+129.9	+ 83.22	+ 5.66	+ 3.03	+53.68
	(+4.63)	(+8.25)	(+0.09)	(+0.04)	(+0.76)	(+2.13)	(+1.36)	(+0.09)	(+0.05)	(+0.88)

Source b

Cont'd..

Grain transport balance 1901, 1913, 1920-22.....

	Balance including foreign trade 1901	1913	1920	1921	1922	Balance excluding foreign trade 1901	1913	1920	1921	1922
4. CPR										
Tsent Chernozem	+ 56.73	+71.23	+ 5.84	+3.45	+22.15					
Sredniye Volzhi	+ 65.60	+12.20	+ 9.46	-4.09	-29.27					
Vyatski	+ 18.55	+ 7.32	+ 2.62	-0.95	- 4.80	+18				
All CPR	+140.88	+90.75	+17.92	-1.59	-11.92					
	(+2.31)	(+1.49)	(+0.29)	(-0.03)	(-0.20)	(+2.31)	(+1.49)	(+0.29)	(-0.03)	(-0.26)
5. EPR										
Uralsky	+ 17.49	+34.94	+ 2.21	+2.31	+14.12	+17.49	+34.94	+ 7.21	+2.31	+14.19
Zap sibirskii	- 3.87	+ 8.43	+12.08	+2.67	- 4.26	- 3.87	+ 8.43	+12.08	+2.67	- 4.26
Kuznetsko Altai	- 2.71	+11.83	-	+0.39	+12.29	- 2.71	+11.66	-	+0.39	+12.29
Enisyeiska	-	+ 0.01	- 0.03	-	+ 0.70	-	+ 0.01	- 0.03	-	+ 0.70
Yakutskii	-	-	- 0.03	-0.04	-	-	-	- 0.03	-0.04	-
Lensho Angarsk	- 0.92	-21.07	+ 0.01	-0.01	- 0.87	- 1.49	-12.23	+ 0.01	-0.01	- 0.87
Dalyne Vost Krai	-	-	-	-	-	-	- 0.02	-	-	-
Kirgizskii	+ 2.51	+12.21	+3.60	+2.08	- 4.64	+ 2.81	+12.21	+ 3.60	+2.08	- 4.64
All EPR	+ 12.5	+46.35	+17.84	+7.4	+17.41	+11.93	+55.0	+17.84	+7.4	+17.41
	(+0.20)	(+0.76)	(+0.29)	(+0.12)	(+0.29)	(+0.20)	(+0.90)	(+0.29)	(+0.12)	(+0.29)
All USSR	(+4.48)	(+9.30)	(-0.49)	(-0.72)	(-0.80)	(+1.18)	(+1.08)	(-0.34)	(-0.49)	(-0.06)
Regions leavings	+13.23	+ 8.90	-	-	-	-69.50	-55.57			
former Empire	(+0.22)	(+0.15)				(-1.14)	(-0.91)			

Source c

Grain Transport Balances (Rail) in mln. tons

Summary Table

		1913	1914	19[illegible]	1916	1917
1. NCR						
a) N & NW	Despatch	0.272	0.257	0.324	0.390	0.046
	Receipt	1.939	1.900	1.883	1.851	0.699
	Balance	-1.667	-1.643	-1.559	-1.461	-0.653
b) Cent. Ind. R.						
	Despatch	1.547	1.549	1.157	1.049	0.544
	Receipt	2.289	2.441	2.185	1.831	0.934
	Balance	-0.742	-0.892	-1.018	-0.782	-0.390
c) Belorussia						
	Despatch	0.131	0.095	0.090	0.174	-
	Receipt	0.343	0.463	0.408		
	Balance	-0.212	-0.368	-0.318		
1. All NCR	Despatch	1.950	1.901	1.571	1.613	0.590
	Receipt	4.571	4.804	4.476	3,682	1.634
	Balance	-2.621	-2.903	-2.905	-2.069	-1.044
3. SPR						
a) Ukraine	Despatch	6.306	4.012	1.982	1.485	0.132
	Receipt	5.097	3.403	1.326		
	Balance	+1.209	+0.609	+0.656	+1.485	+0.132
b) N.Cauc.	Despatch	3.665	3.054	1.693	0.723	-
	Receipt	3.126	2.276	0.629		
	Balance	+0.539	+0.778	+1.064	+0.723	
3. All SPR	Despatch	9.971	7.066	3.675	2.208	0.132
	Receipt	8.223	5.679	1.955		
	Balance	+1.748	+1.387	+1.720	+2.208	+0.132
4. CPR						
a) Tsent Ch. Zem						
	Despatch	2.459	2.256	1.762	1.685	
	Receipt	1.210	1.236	0.931	0.839	
	Balance	+1.249	+1.020	+0.831	+0.846	
b) Volga	Despatch	3.228	2.967	2.508	2.313	0.075
	Receipt	1.722	1.660	1.534	1.587	0.058
	Balance	+1.506	+1.307	+0.974	+0.726	+0.017
4. All CPR	Despatch	5.687	5.223	4.270	3.998	0.075
	Receipt	2.932	2.896	2.465	2.426	0.058
	Balance	+2.755	+2.327	+1.805	+1.572	+0.017
5. EPR						
a) Urals	Despatch	0.973	1.073	0.901	0.076	-
	Receipt	0.644	0.590	0.739	0.002	-
	Balance	+0.328	+0.483	+0.162	+0.074	-
All Given USSR						
	Despatch	18.581	15.263	10.417	7.896	0.797
	Receipt	16.370	13.969	9.635	6.110	1.692
	Balance	2.211	1.294	0.782	1.726	-0.895

Source: Trudy TsSU, Tom VI, vyp. 2, M.1923, pp. 169-170

Note: For 1916 and 1917 these figures are very incomplete.

Grain Transport Balance (Rail) in th. pds. and mln. tons

From Trudy TsSU, Tom VI, vyp. 2, M.1923, pp. 169, 170

Source

	Despatch					Receipt				
	1913	1914	1915	1916	1917	1913	1914	1915	1916	1917
1. NCR										
Arhkangel G.	39	48	47	107	110	7,776	3,115	4,143	7,644	3,361
Vologodskaya G.	577	532	801	1,917	990	10,521	11,346	19,144	21,848	5,410
Olonetskaya G.	23	26	85	45	39	2,955	690	916	787	333
Petrogradsk. G.	3,593	4,916	9,461	7,660	-	65,171	64,409	61,892	56,994	28,604
Novgorod G.	1,594	1,571	2,683	2,659	1,662	9,233	10,108	9,047	13,539	4,943
Smolensk G.	6,188	4,253	3,073	7,343	-	17,421	11,790	10,877	-	-
Tver G.	4,593	4,344	3,642	4,106	-	15,376	14,559	8,949	12,179	-
All N & NW	16,607	15,690	19,792	23,837	2,801	118,403	116,017	114,968	112,991	42,651
in mln. tons	0.272	0.257	0.324	0.390	0.046	1.939	1.900	1.883	1.851	0.699
Yaroslavl. G.	26,275	28,693	19,379	17,368	-	8,303	7,176	7,261	8,702	4,913
Moscow G.	5,420	7,033	11,948	10,901	4,962	66,719	68,733	67,215	64,023	40,751
Vladimir G.	2,450	2,295	2,194	2,708	2,115	19,874	20,926	17,224	10,523	6,310
Kostroma G.	5,935	7,361	1,338	1,408	1,038	4,367	6,788	2,792	3,040	2,030
Kaluzhskaya G.	1,202	869	880	1,506	822	10,429	12,524	10,706	7,974	-
Nizhne Novgorod G.	14,085	14,441	15,344	14,508	4,262	7,143	8,528	5,792	10,384	3,037
Tula G.	22,465	18,762	10,376	15,637	20,034	9,943	10,297	12,572	7,133	-
Ryazan G.	16,587	15,097	9,171	-	-	12,946	14,039	9,834	-	-
All Cent. Ind. Region	94,419	94,551	70,630	64,036	33,233	139,724	149,011	133,396	111,779	57,041
in mln. tons	1.547	1.549	1.157	1.049	0.544	2.289	2.441	2.185	1.831	0.934
Vitebskaya G.	2,405	1,999	2,603	6,068	-	9,303	14,611	16,185	-	-
Minsk. G.	2,986	2,085	1,453	2,193	-	7,774	8,377	5,466	-	-
Mogilevskaya G.	2,611	1,728	1,414	2,340	-	3,883	5,777	3,787	-	-
All Belorussia	8,002	5,812	5,470	10,601	-	20,960	28,265	24,938	-	-
in mln. tons	0.131	0.095	0.090	0.174	-	0.343	0.463	0.408	-	-
1. All NCR	1.950	1.901	1.571	1.613	0.590	4.571	4.804	4.476	3.682	1.634
2. SCR										

Grain Transport Balance (Rail) in th. pds. and mln. tons (continued)

	Despatch					Receipt				
	1913	1914	1915	1916	1917	1913	1914	1915	1916	1917
3. SPR										
Poltavskaya G.	54,952	46,515	23,375	32,733	-	17,832	16,931	10,356	-	-
Kharkovskaya G.	33,121	31,692	23,262	27,215	-	25,900	19,477	18,136	-	-
Chernigovskaya G.	21,337	7,789	6,635	8,299	-	9,887	9,896	-	-	-
Kievskaya G.	39,035	30,247	16,865	20,794	7,608	23,459	23,162	18,567	-	-
Volyinskaya G.	10,495	7.163	2,967	1,621	450	17,242	20,457	7,853	-	-
Podolskaya G.	23,773	13,907	-	-	-	14,369	8,239	-	-	-
Khersonskaya G.	105,170	47,492	-	-	-	127,234	52,239	-	-	-
Ekaterinosl. G.	64,179	36,097	27,237	-	-	43,809	40,209	18,551	-	-
Tavricheskaya G.	32,894	24,020	20,660	-	-	31,442	17,173	7,484	-	-
All Ukraine	384,956	244,922	121,001	90,662	8,058	311,174	207,783	80,947	-	-
in mln. tons	6.306	4.012	1.982	1.485	0.132	5.097	3.403	1.326	-	-
Military Don Ob.	62,851	80,720	60,027	-	-	77,971	56,852	20,759	-	-
Kuban Ob.	94,353	69,606	20,006	20,065	-	30,015	23,719	5,913	-	-
Stavropol G.	27,176	11,020	2,022	5,014	-	1,245	1,008	514	-	-
Tersk. G.	38,216	24,782	21,118	18,638	-	8,633	5,662	4,997	-	-
Chernomovsk. G.	992	180	196	329	-	75,316	48,512	3,611	-	-
Dageston Ob.	146	147	-	110	-	2,636	3,270	2,618	-	-
All N. Caucasus	223,734	186,450	103,369	44,156	-	190,816	138,973	38,412	-	-
in mln. tons	3.665	3.054	1.693	0.723	-	3.126	2.276	0.629	-	-
3. All SPR	9.971	7.066	3.675	2.208	0.132	8.223	5.679	1.955	-	-
4. CPR										
Voronezh G.	41,908	37,864	30,986	37,811	-	15,658	16,251	17,121	15,188	-
Kurskaya G.	32,583	28,609	24,150	22,269	-	12,105	12,932	9,161	7,193	-
Orlovskaya G.	21,815	18,106	14,242	15,456	-	21,069	20,781	8,435	13,678	-
Tambovskaya G.	53,787	53,178	38,203	22,328	-	25,036	25,473	15,140	-	-
All Tsent.Ch.Zem	150,093	137,757	107,581	102,864	-	73,868	75,437	56,828	51,199	-
in mln. tons	2.459	2.256	1.762	1.685	-	1.210	1.236	0.931	0.839	-

Grain Transport Balance (Rail) in th. pds. and mln. tons (continued)

	Despatch					Receipt				
	1913	1914	1915	1916	1917	1913	1914	1915	1916	1917
4. CPR (contd.)										
Astrakhanskaya G.	1,067	1,577	2,301	2,548	1,581	3,527	3,400	4,200	5,269	-
Saratovskaya G.	66,100	71,353	50,000	59,816	-	33,354	32,382	28,071	29,217	-
Samarskaya G.	81,683	71,415	71,217	55,611	-	39,939	37,930	34,938	38,240	-
Penzenskaya G.	18,243	10,366	5,039	3,193	1,275	7,758	6,772	6,418	3,791	1,697
Simbirskaya G.	11,025	11,486	8,847	7,818	-	7,836	12,096	9,120	9,987	-
Kazanskaya	2,437	2,760	2,149	2,401	205	1,909	1,503	748	-	55
Vyatskaya G.	5,100	4,948	3,707	2,289	1,539	2,896	3,250	3,908	3,973	1,791
Ufa G.	11,443	7,248	9,855	7,539	-	8,406	3,990	6,257	6,418	-
All Volga	197,098	181,153	153,115	141,215	4,600	105,125	101,323	93,660	96,895	3,543
in mln. tons	3.228	2.967	2.508	2.313	0.075	1.722	1.660	1.534	1.587	0.058
4. All CPR	5.687	5.223	4.270	3.998	0.075	2.932	2.896	2.465	2.426	0.058
5. EPR										
Permskaya G.	15,392	20,298	13,811	4,642	-	30,139	29,185	24,812	-	-
Orenburgskaya G.	37,330	38,125	34,173	-	-	8,863	6,570	20,254	-	-
Uralskaya	6,694	7,067	7,029	-	-	360	287	26	96	-
All Urals	59,416	65,490	55,013	4,642	-	39,362	36,042	45,092	96	-
in mln. tons	0.973	1.073	0.901	0.076	-	0.644	0.590	0.739	0.002	-

Source d

Grain transport balance 1913, 1922/23-1927/28 in mln tons from G. Vasilyev Khlebnyi perevozhi (1922/23-1927/28gg i 1913g) in SO, 1928, No. 8, pp. 68, 72.

	Balance including foreign trade 1913	1922/23	1923/24	1924/25=	1925/26	1926/27	1927/28
1. NCR							
Leningrad ob & krai	-1.734	-0.630	-0.652	-0.737	-0.942	-0.912	-0.938
Tsent Prom r	-1.990	-0.858	-1.148	-1.560	-2.430	-2.137	-2.702
other							
	-3.687	-1.603	-2.276	-2.459	-3.792	-3.548	-3.638
BSSR	-0.273	+0.091	+0.022	-0.017	-0.167	-0.213	-0.253
1. All NCR	-3.910	-1.512	-2.252	-2.476	-3.959	-3.761	-3.891
2. SCR							
ZSFSR	-0.286	-0.081	-0.074	-0.240	-0.296	-0.245	-0.388
Sred. Azii	-0.300	-0.103	-0.077	-0.114	-0.485	-0.465	-0.591
2. All SCR	-0.586	-0.184	-0.151	-0.354	-0.781	-0.710	-0.979
3. SPR							
UkSSR	+4.775	+0.798	+2.748	+0.551	+2.078	+1.915	
Krim ASSR	+0.210	-0.024	+0.041	+0.022	+0.140	+0.005	
Severo Kavkaz	+3.706	+0.610	+1.052	+1.085	+2.603	+1.403	
3. All SPR	+8.691	+1.384	+3.841	+1.658	+4.821	+3.323	
4. CPR							
Tsent Chernozem	+1.328	+0.776	+0.661	-0.320	+0.241	+0.376	
Nizh Volzhsk	+1.059	+0.045	+0.024	-0.255	+0.174	+0.440	
Sred. Volzhsk	+2.181	+0.028	+0.238	+0.375	+0.328	+1.070	
Bashkir ASSR	+0.362	+0.041	+0.132	+0.414	+0.180	+0.244	
Vyatskii R.	+0.063	-0.017	-0.022	+0.079	-0.051	-0.051	
	+3.665	+0.097	+0.372	+0.613	+0.631	+1.703	
4. All CPR	+4.993	+0.873	+1.033	+0.293	+0.872	+2.079	
5. EPR							
Urals Ob.	+0.063	-0.124	+0.038	+0.520	+0.087	+0.169	
Sibirskii krai	+0.357	+0.974	+0.199	+0.622	+0.672	+0.894	
Kazak & Kirg ASSR	+0.359	+0.047	-0.045	+0.375	+0.400	+0.670	
5. All EPR	+0.779	+0.897	+0.192	+1.517	+1.109	+1.733	
All USSR	+9.968	+0.581	+2.662	+0.637	+2.061	+2.664	
All Cons R	-4.496	-1.696	-2.403	-2.830	-4.740	-4.471	-4.870
All Prod R.	+14.464	+2.277	+5.065	+3.467	+6.801	+7.135	

Source e

Grain transport balances for 1927/28 and 1928/29 in mln tons from G. Vasilyev, 'Khlebniye Perevozki 1927/28 i 1928/29gg.' in SO, 1929, No. 8, p. 83. Balances exclude foreign trade.

	1927/28 despatch	receipt	balance	1928/29 despatch	receipt	balance
1. NCR						
Severnyi	0.139	0.296		0.130	0.351	
Leningrad obl.	0.468	1.562		0.555	1.404	
Tsent. Prom	1.441	3.737		1.382	3.373	
Zapadnyi	0.100	0.428		0.109	0.314	
	2.148	6.023		2.176	5.442	
BSSR	0.095	0.477		0.105	0.422	
1. All NCR	2.243	6.500	-4.257	2.281	5.864	-3.583
2. SCR						
ZSFSR	0.151	0.510		0.178	0.521	
Uzbek SSR	0.177	0.611		0.188	0.515	
Turkmen SSR	0.275	0.354		0.080	0.194	
2. All SCR	0.553	1.475	-0.922	0.446	1.230	-0.784
3. SPR						
UkSSR	4.382	2.476		2.267	2.215	
Kryim ASSR	0.150	0.175		0.036	0.120	
SevKavkaz.	1.743	1.083		1.654	1.160	
Dag. ASSR	0.214	0.212		0.073	0.064	
3. All SPR	6.489	3.946	+2.543	4.030	3.559	+0.471
4. CPR						
Tsent Chernozem	1.833	0.803		1.248	0.935	
Nizh Volzhsk	0.661	0.500		1.302	0.702	
Sred. Volzhsk	1.096	0.759		1.810	0.997	
Bashkir ASSR	0.204	0.062		0.415	0.154	
Vyatskii	0.056	0.084		0.059	0.098	
	2.017	1.405		3.586	1.951	
4. All CPR	3.850	2.208	+1.642	4.834	2.886	+1.948
5. EPR						
Uralsk Obl.	0.977	0.856		1.269	0.900	
Sibirsk Kr	1.399	0.561		1.794	0.571	
Bur Morg ASSR	0.023	0.038		0.019	0.046	
Yakut ASSR	0.026	0.025		0.002	0.013	
Dalne Vostok Kr	0.388	0.489		0.368	0.489	
Kazak ASSR	0.416	0.166		0.896	0.183	
Kirg ASSR	0.003	0.024		0.014	0.010	
5. All EPR	3.232	2.159	+1.073	4.362	2.212	+2.150
Undistributed	0.137	0.215	-0.078	0.071	0.271	-0.20
All USSR	16.501	16.501		16.022	16.022	

Source 1

The Grain transport balance for 1928/29, 1929/30 and 1930 for rail and water transport including foreign trade in th. tons from Nar. Khoz SSSR, M.1932, p. 268

	1928/29	1929/30	1930
1. NCR			
Severnyi Kr	-176	-293	-280
Leningrad ob. & Karélia. ASSR	-924	-1229	-814
Zap ob.	-327	-283	-162
Mosk. obl.	-1186	-1035	-935
Ivan. Obl.	-459	-630	-166
Nizhegor . kr	-282	-329	-209
BSSR	-245	-221	-161
1. All NCR	-3599	-4020	-2727
2. SCR			
ZSFSR	-402	-466	-368
Uzbek & Tadezh SSR	-336	-409	-460
Turkmen SSR	- 94	-170	-130
Kirgiz	- 7	+ 14	+ 1
2. All SCR	-825	-1031	-957
3. SPR			
UkSSR	- 37	+2782	+3672
Krim ASSR	- 72	+ 79	+747
Sev Kavk.	+430	+892	+1170
Dag ASSR	- 20	- 69	- 31
3. All SPR	+301	+3684	+5558
4. CPR			
Tsent chernozem	+335	+1219	+1566
Nizh Volzhski	+595	+636	+ 732
Sred. Volzhski	+823	+188	+454
Bashkir ASSR	+274	+111	+151
	+1692	+935	+1337
4. All CPR	+2027	+2154	+2903
5. EPR			
Uralsk. ob.	+374	-116	-128
Sibirsk kr	+1148	+472	+189
Bur. Mongol ASSR	+ 14	+ 11	+ 5
Yakut ASSR	-11	-	- 35
Dáln Vost kr	-191	-311	-146
Kázak ASSR	+762	+ 89	- 21
5. All EPR	+2096	+145	-134
Undistributed	-173	+ 62	+197
All USSR	-173	+994	+4840

Source 9

Grain transport balances 1928-1931, in mln tons, from Dinamika i Geografiya gruzovogo dvizheniya na putyakh soobshcheniya SSSR (1928-1931gg), M.1932, pp. 15-17. All exclude foreign trade. And Sotz Stroi SSSR, M.1935, pp. 265-266

	1928 despatch	receive	balance	1929 despatch	receive	balance
1. NCR						
Severnyi kr.	0.164	0.345		0.222	0.523	
Leningrad ob.	0.531	1.355		0.369	1.715	
Karelia ASSR	0.040	0.126		0.055	0.180	
Zapadnaya ob.	0.149	0.621		0.171	0.584	
Mosk ob.	0.563	1.905		0.687	2.048	
Ivan	0.511	1.159		0.571	1.491	
Nizhegor kr	0.432	0.803		0.400	0.890	
BSSR	0.090	0.474		0.139	0.456	
1. All NCR	2.480	6.738	-4.258	2.614	7.887	-5.273
2. SCR						
ZSFSR	0.195	0.580		0.286	0.761	
Uzbek	0.190	0.644		0.270	0.634	
Turk	0.181	0.294		0.095	0.230	
Tadzh	-	-		0.004	0.002	
2. All SCR	0.566	1.518	-0.952	0.655	1.627	-0.972
3. SPR						
UkSSR	3.209	2.171		5.412	3.547	
Kryim ASSR	0.064	0.102		0.135	0.195	
Severokavkaz	1.906	1.162		2.340	1.629	
Dag ASSR	0.136	0.146		0.067	0.107	
3. All SPR	5.314	3.581	+1.734	7.954	5.478	+2.476
4. CPR						
Tsent Chernozem	1.773	0.981		2.120	1.336	
NizhVolzh	1.095	0.646		1.742	1.143	
Sred Volzh	1.340	0.858		1.499	0.950	
Bashkir	0.310	0.107		0.361	0.125	
Tatar	0.201	0.154		0.230	0.156	
4. All CPR	4.719	2.744	+1.975	5.952	3.71	+2.242
5. EPR						
Urals ob.	1.154	1.018		1.297	1.147	
Zap Sib kr	1.528	0.433		1.402	0.564	
Vost Sib kr	0.366	0.281		0.545	0.446	
Dalne Vost kr	0.372	1.414		0.383	1.067	
Kag ASSR	0.660	0.166		0.742	0.224	
Kirg ASSR	0.017	0.022		0.027	0.012	
5. All EPR	4.097	3.334	+0.763	4.396	3.460	+0.936
Undistributed	0.981	0.183		0.801	0.179	
All USSR	18.152	18.152		22.376	22.376	

Cont'd...

Grain transport balances 1928-31.....

1930			1931			1932		
despatch	receive	balance	despatch	receive	balance	despatch	receive	balance
0.269	0.550		0.282	0.593		0.196	0.429	
0.590	1.882		0.547	1.902		0.491	1.817	
0.061	0.183		0.063	0.169		0.056	0.208	
0.304	0.472		0.311	0.442		0.348	0.521	
1.073	2.002		0.966	2.223		1.155	2.387	
0.800	0.965		0.483	1.010		0.611	0.922	
0.762	0.450		0.757	0.883		0.853	0.798	
0.243	0.455		0.188	0.470		0.236	0.572	
4.082	7.559	-3.477	3.597	7.692	-4.095	3.946	7.654	-3.708
0.443	0.820		0.500	0.948		0.550	1.015	
0.371	0.797		0.308	0.922		0.367	0.737	
0.268	0.361		0.212	0.423		0.261	0.305	
0.019	0.048		0.014	0.059		0.017	0.044	
1.101	2.026	-0.925	1.034	2.352	-1.318	1.195	2.101	-0.906
8.086	6.411		8.991	6.728		6.927	5.677	
0.194	0.401		0.797	0.531		0.331	0.326	
3.292	3.201		3.397	3.216		3.019	2.323	
0.145	0.180		0.133	0.065		0.117	0.138	
11.717	10.193	+1.524	12.818	10.540	+2.278	10.394	8.464	+1.930
2.715	1.165		2.452	1.126		2.656=	1.086	
1.986	1.256		2.190	1.273		1.803	1.049	
1.477	1.108		1.919	1.233		1.689	1.081	
0.313	0.160		0.555	0.164		0.376	0.182	
0.270	0.155		0.433	0.186		0.428	0.196	
6.761	3.844	+2.917	7.549	3.982	+3.567	6.952	3.594	+3.358
1.390	1.527		1.542	1.584		1.341	2.033	
0.913	0.814		1.387	0.996		1.267	1.072	
0.511	0.421		0.463	0.478		0.535	0.540	
0.527	0.698		0.536	0.765		0.707	0.863	
0.415	0.445		0.699	0.577		0.647	0.732	
0.028	0.034		0.069	0.099		0.060	0.053	
3.784	7.723	+3.939	4.696	4.499	+0.197	4.557	5.298	+0.741
0.810	0.631		-	0.602		0.116	0.031	
28.231	28.231		29.701	29.701		27.207	27.207	

The full grain transport balance 1928/29 in th. tons

Producer regions	NCR								SCR			SPR		
	Sev kr.	Len ob.	Zap ob.	Ivan ob.	Mosk ob.	Nizh kr.	BSSR	all	ZSFSR	C. Asia	all	UkSSR	Sev kavk.	all
3. SPR														
UkSSR	11	150	17		236		48	462	7	-	7	1517	-	1517
Sev kav	5	21	8		88		8	130	191	-	191	12	857	869
3. All SPR	16	171	25		324		56	592	198	-	198	1529	857	2386
4. CPR														
TsChZem	32	106	85		276		86	585	26	-	26	35	22	57
Nizh Volzhsk	19	90	30		240		24	403	24	4	28	14	11	25
Sred Volzhsk	29	138	20		375		36	598	10	149	159	26	5	31
4. All CPR	80	334	135		891		146	1586	60	153	213	75	38	113
5. EPR														
Urals	49	141	11		177		16	394	5	19	24	13	4	17
Sibirskii	23	204	7		380		5	619	17	19	36	42	33	65
Kazak	11	59	6		206		7	289	10	64	74	28	27	65
5. All EPR	83	404	24		763		28	1302	32	102	134	83	64	147
Other regions	71	321	57		606		98	1153	64	185	249	33	18	51
All USSR	250	1230	241		2584		329	4634	356	440	796	1722	985	2707

Source: Nar.Khoz SSSR. M.1932, pp. 266-267

cont'd..

The full grain transport balance 1928/29 in th. tons (cont'd)

Producer regions	CPR				EPR				All USSR
	TsCh zem	Nizh Volzh	Sred Volzh	all	Urals ob.	Sib-eria	DVK	all	
3. SPR									
UkSSR	65	10	7	82	8	-	-	8	2112
SevKaz	39	70	5	114	-	-	-	-	1356
3. All SPR	104	80	12	196	8	-	-	8	3468
4. CPR									
TsChZem	520	3	1	524	-	-	-	-	1208
Nizh Volzhsk	49	515	10	574	-	1	-	1	1047
Sred Volzhsk	12	5	549	566	3	5	1	9	1382
4. All CPR	581	523	560	1664	3	6	1	10	3637
5. EPR									
Urals	33	1	40	74	449	2	-	451	1053
Sibirskii	75	20	90	185	34	345	116	495	1450
Kazak	59	22	105	186	10	3	2	15	690
5. All EPR	167	43	235	445	493	350	118	961	3193
Other regions	26	5	10	41	7	5	1015	1027	7577
All USSR	882	651	817	2350	511	361	1134	2006	12875

Source: Nar.Khoz SSSR, M.1932, pp. 266-267.

The full grain transport balance for 1929/30 in th. tons

	NCR								SCR			SPR		
	Sev kr	Len ob.	Zap ob.	Ivan ob.	Mosk ob.	Nizh kr.	BSSR	all	ZSFSR	1. Asia	all	UkSSR	Sev Kavk	all
3. SPR														
UkSSR	24	422	130	171	321	116	122	1306	13	14	27	2737	33	2770
Sev Kaz	1	11	7	14	59	6	1	99	207	15	222	5	1594	1599
Krim ASSR	-	-	-	-	1	-	2	3	-	-	-	1	-	
3. All SPR	25	433	137	185	381	122	125	1408	220	29	249	2743	1627	4369
4. CPR														
TsChZem	75	339	53	157	278	40	24	966	34	11	45	7	145	152
Nizh Volzhsk	15	88	6	39	65	21	1	239	9	40	49	1	52	53
Sred Volzhsk	34	20	1	27	49	26	-	157	-	70	70	-	1	1
4. All CPR	124	447	60	223	145	87	25	1362	43	121	164	8	198	206
5. EPR														
Urals	13	10	-	33	7	25	-	88	-	11	11	-	4	4
S Sibir	10	35	-	11	3	15	-	74	-	24	24	-	-	-
Kazak	6	7	-	13	10	14	-	50	-	93	93	-	-	-
5. All EPR	29	52	-	57	20	54	-	212	-	128	128	-	4	4
Other regions	136	472	123	238	561	259	167	1956	88	382	470	61	44	105
All USSR	313	1404	320	703	1357	522	317	4936	351	660	1011	2182	1875	4687

cont'd...

The full grain transport balance for 1929/30 in th. tons. (cont'd)

	CPR				EPR				Ochir	All USSR
	TsCh zem	Nizh volzh	Sred volzh	all	Urals ob.	Sib kr.	DVK	all		
3. SPR										
UkSSR	158	27	37	222	30	3	-	33	132	4490
Sev Kaz	9	116	11	136	-	-	-	-	141	2197
Krim ASSR	-	-	-	-	-	-	-	-	107	111
3. All SPR	167	143	48	358	30	3	-	33	380	6798
4. CPR										
TsChZem.	582	8	46	636	24	20	3	47	16	1862
Nizh Volzhsk	9	542	22	623	2	4	1	7	35	1005
Sred Volzhsk	4	-	477	481	20	10	5	35	39	783
4. All CPR	595	600	545	1740	46	34	9	89	90	3650
5. All EPR										
Urals	-	-	14	14	452	15	8	475	83	675
Sibir	-	-	63	63	45	410	139	594	49	794
Kazak	-	17	18	35	10	11	11	32	82	291
5. All EPR	-	17	95	112	507	436	158	1101	214	1760
Other regions	36	13	36	85	63	56	866	985	39	3640
All USSR	798	773	714	2285	646	529	1033	3193	723	15848

Source: Nar.Khoz SSSR, M.1932, pp. 266-267

8/ Food and feed consumption norms

a / Personal consumption norms from the 1923/24 balance of the national economy, Trudy TsSU, Tom XXIX,M;1926, p.130

b / Personal consumption norms from the Materialy po balansu 1928-30, M.1932, pp.170,310,311,

c / Grain fodder norms 1925/26-1927/28 from Zhivotnovodstv SSSR, M.1930, pp.142-7, 196-9.

The personal consumpton of the rural population in kgms/head from P.I.Popov (ed) Balans Nar.Khoz.SSSR, 1923/24,M.1926,part I, part II, p.130.

	All USSR	1/NCR	2/SCR (a) ZSFSR	(b) Turk	All	3/SPR (a) Uk.SSR	(b) N.C.	All	4/CPR	5/EPR Sib.	Kirg.	All EPR
Rye flour	126.1	162.2				158.9	31.1	130.7	150.7	88.5	13.1	65.7
Wheat flour	50.8	9.8	95.0	149.1	122.7	39.3	162.2	66.8	31.1	101.6	99.9	100.9
Oats												
flour	3.3	6.6							6.6			
groats	1.6	3.3							4.9	1.6		0.9
all	4.9	9.9							11.5	1.6		0.9
Barley												
flour	8.2	8.2	24.6	3.3	13.5	11.5	11.5	11.5	4.9	4.9	3.3	4.5
groats	3.3	4.9				6.6	1.6	4.9	1.6			
all	11.5	13.1	24.6	3.3	13.5	18.1	13.1	16.4	6.5	4.9	3.3	4.5
Millet												
flour	3.3		4.9		2.7	1.6	1.6	1.6	6.6	3.3		2.8
& Buckwheat groats	24.6	21.3		11.5	6.2	26.2	16.4	24.0	34.4	24.6	22.9	24.0
all	27.9	21.3	4.9	11.5	8.9	27.8	18.0	25.7	41.0	27.9	22.9	26.8
Maize grain	1.6			18.0	9.6	1.6		1.5	1.6			
groats	6.6		78.6	14.7	45.6	4.9	36.0	12.5				
all	8.2		78.6	32.7	55.2	6.5	36.0	14.0	1.6			
Other grain	3.3	1.6	8.2	3.3	5.5	6.6	6.6	6.6	3.2	4.9		3.6
flour	0.0		1.6		0.6				1.6			
groats	1.6		9.8	32.8	21.8							
all	4.9	1.6	19.7	36.0	27.9	6.6	6.6	6.6	4.8	4.9		3.6
All grain	4.9	1.6	8.2	21.3	15.0	8.2	6.6	7.5	4.9	4.9		3.6
flour	198.2	186.7	126.1	167.1	185.7	216.2	242.4	228.0	201.5	198.2	116.3	174.4
groats	31.1	29.5	88.4	44.2	28.2	32.8	18.0	28.9	40.9	26.2	22.9	25.4
all	234.2	217.9	222.7	232.6	229.0	257.2	267.0	259.5	247.2	229.3	139.2	203.5

Personal consumption norms as indicated in the 1928-1930 grain forage balance.

	Personal Consumption in mln tons				Consumption Norms in mln tons /head / year			
1928	Non Agr. Popln	Agric. Popln	Other	All	Non Agr. Popln.	Agric Popln.	Other	All
Rye flour	0.4261	11.0486	0.1663	11.6410	0.0143	0.0908	0.1627	0.0764
Wheat flour	1.4972	10.8964	0.0698	12.4634	0.0503	0.0896	0.0683	0.0818
Other flour	0.0628	2.7195	0.0004	2.7827	0.0021	0.0224	0.0004	0.0183
All flour	1.9861	24.6645	0.2365	26.8871	0.0667	0.2027	0.2314	0.1764
Millet	0.0796	1.2740	0.0195	1.3731	0.0027	0.0105	0.0191	0.0098
Buckwheat	0.0947	0.2604	0.0197	0.3748	0.0032	0.0021	0.0193	0.0025
Other groats	0.1763	0.6474	0.0037	0.8274	0.0059	0.0053	0.0036	0.0054
All groats	0.3506	2.1818	0.0429	2.5753	0.0118	0.0179	0.0420	0.0169
All	2.3367	26.8463	0.2794	29.4624	0.0785	0.2207	0.2734	0.1933
1929								
Rye flour	0.4152	10.6333	0.2046	11.2531	0.0133	0.0860	0.1872	0.0721
Wheat flour	0.9761	10.4473	0.2166	11.6400	0.0312	0.0845	0.1982	0.0746
Other flour	0.0629	3.6321	-	3.6950	0.0020	0.0294	-	0.0237
All flour	1.4542	24.7127	0.4212	26.5881	0.0465	0.1999	0.3854	0.1704
Millet	0.2122	1.0481	0.0205	1.2808	0.0068	0.0085	0.0188	0.0082
Buckwheat	0.1554	0.2275	0.0215	0.4044	0.0050	0.0018	0.0197	0.0026
Other groats	0.0620	0.8670	0.0091	0.9381	0.0020	0.0070	0.0083	0.0060
All groats	0.4296	2.1426	0.0511	2.6233	0.0137	0.0173	0.0468	0.0168
All	1.8838	26.8553	0.4723	29.2114	0.0602	0.2172	0.4321	0.1873
1930								
Rye flour	0.7012	10.6030	0.2203	11.5245	0.0205	0.0856	0.1864	0.0723
Wheat flour	0.7806	10.0781	0.2509	11.1096	0.0228	0.0813	0.2123	0.0697
Other flour	0.0564	3.0490	0.0026	3.1080	0.0016	0.0246	0.0022	0.0195
All flour	1.5382	23.7301	0.4738	25.7421	0.0449	0.1915	0.4008	0.1616
Millet	0.2042	1.4299	0.0192	1.6533	0.0060	0.0115	0.0162	0.0104
Buckwheat	0.0645	0.1761	0.0246	0.2652	0.0019	0.0014	0.0208	0.0017
Other groats	0.1867	0.9352	0.0121	1.1340	0.0054	0.0075	0.0102	0.0071
All groats	0.4554	2.5412	0.0559	3.0525	0.0133	0.0205	0.0473	0.0192
All	1.9936	26.2713	0.5297	28.7946	0.0581	0.2120	0.4481	0.1807

Source: Materialyi po balansu Narodnogo Khozyaistva SSSR za 1928,1929 i 1930g.m,M.1932, pp.170,310,311.

Note: The consumption of the Non Agricultural Population excludes purchased bread.

Grain fodder norms by region 1925/26-1927/28

	feed norms in tons per horse per year	full grown horses in mlns	grain fodder required in mln tons	norm in tons per horse per year
1.NCR				
a)Severnyi Krai	0.203	0.375	0.076	
Leningrad Ob.	0.343	0.673	0.231	
Zapad Ob.	0.245	1.145	0.281	
b)Moskov Ob.	0.476	1.179	0.561	
Ivanov Prom.Ob.	0.640	0.536	0.343	
Nizhegorod Kr.	0.783	1.043	0.817	
c)BSSR	0.156	0.859	0.134	
1.All NCR		5.810	2.443	0.420
2.SCR				
a)ZSFSR	0.151	0.247	0.037	
b)Uzbek.SSR	0.450	0.426	0.192	
Turk.SSR	0.202	0.076	0.015	
2.All SCR		0.749	0.244	0.326
3.SPR				
a)UkSSR	0.608	3.919	2.383	
Kryim ASSR	0.796	0.102	0.081	
b)Sev.Kavkaz K.	0.670	1.169	0.783	
Dag.ASSR	0.292	0.047	0.137	
3.All SPR		5.240	3.382	0.645
4.CPR				
a)Tsent.Chernozem	0.782	1.341	1.049	
b)Nizhni Volzhskii	0.590	0.602	0.355	
Sred.Volzhskii	0.737	1.048	0.772	
Bashkir ASSR	0.484	0.575	0.278	
Tatar ASSR	0.708	0.388	0.275	
4.All CPR		3.954	2.729	0.690
5.EPR				
a)Uralsk Ob.	0.707	1.602	1.133	
b)Sibir Kr.	0.462	2.757	1.274	
Bur.Mong ASSR	0.209	0.290	0.061	
Dal.Vostok K.	0.413	0.450	0.186	
c)Kazak ASSR	0.109	1.896	0.207	
Kirgiz ASSR	0.125	0.279	0.035	
5.All EPR		7.274	2.896	0.398
-Urals		5.672	1.763	
All USSR	0.502	23.125		

Source: Zhivotnovodstvo SSSR, M.1930, pp.142-7, 196-9.

9/ Population data

a) Pre revolutionary population data

i) Kovalchenko's data 1802/11, 1841/50, 1851/60

ii) Vilson's data 1857/63

iii) Nifontov's data 1850's-1860's

iv) Groman's data 1909/13

v) Lositsky's data 1917

vi) Annual TsSK data 1880-1915

b) Post revolutionary population data

i) Sources

ii) Data

iii) A combined series

a) Pre revolutionary population data

i)Kovalchenko's data

a) Source

I.D.Kovalchenko, Russkoye krepostnoye krestyanstvo v pervoi polovinye XIX veka, M.1967, pp.73, 386.

b) Groupings of regions and coverage

See above p.

c) Notes

Kovalchenko's population data are calculated by me from his grai production data net of seed and his per capita net grain producti data.

d) Data

See table over page.

	1802-11			1841-50			1851-60		
	Net Production	Per Capita Net Prod.	Population	Net Production	Per Capita Net Prod.	Population	Net Production	Per Capita Net Prod.	Population
1. NCR (K)									
Severnyi	1.641	1.57	1.05	1.999	1.52	1.32	2.118	1.50	1.41
Sev. Zapadnyi	4.238	2.40	1.77	3.629	1.69	2.15	3.475	1.59	2.18
Smolensk	3.864	3.22	1.20	3.173	3.07	1.03	2.690	2.62	1.02
Zapadnyi	14.136	3.56	3.97	10.017	1.98	5.06	8.056	1.74	4.63
Tsent.N.Ch.Zem	14.644	2.24	6.54	17.212	2.28	7.55	17.890	2.33	7.68
All NCR			14.33			17.11			16.92
2. SPR (K)									
Ukr. Levoberez	9.388	2.56	3.67	9.195	2.12	4.34	10.009	2.18	4.59
Yugo. Zap.	9.653	2.74	3.52	12.626	2.67	4.73	10.811	2.21	4.89
Yuzhnoi Step.	2.583	1.76	1.47	3.184	1.24	2.57	5.171	1.92	2.69
All SPR			8.66			11.64			12.17
3. CPR (K)									
Tsent. Ch. Zem	29.193	4.16	7.02	33.265	3.81	8.73	30.324	3.30	9.19
N. Volzhskii	4.725	2.91	1.62	9.773	3.07	3.18	11.708	3.44	3.40
Sred. Volzhskii	8.534	3.37	2.53	11.076	3.31	3.35	13.296	3.63	3.66
All CPR			11.17			15.26			16.25
4. EPR (K)									
Priural.	5.935	1.99	2.98	15.061	3.00	5.02	16.888	2.96	5.71
All			37.14			49.03	13.243		51.05
Pribaltic	3.030	2.53	1.20	3.415	2.16	1.58	3.709	2.27	1.63
All incl. Pribaltic			38.34			50.61	13.614	2.58	52.77

Source: I. D. Kovalchenko, Ruskoye krepostnoye krestyanstvo v pervoipolovinye XIX v., M.1967, pp. 78, 386.

ii) Vilson's population data

a) Source

I.Vilson (compiler), Obyasneniya k khozyaistvenno statisticheskomu atlasu Rossii, 4th ed. SPb. 1869, pp.106-13

b) Grouping of regions and coverage

See above

c) The data

NCR	16.98
SPR	
a)Ukraine	15.62
CPR	
a)Ts.Zem.R.	9.87
b)Volga R.	10.87
All CPR	20.74
EPR	
a)Urals	4.36
All	57.70
excluded regions	3.42
All Empire	61.12

For a more detailed regional breakdown see above p.

iii) Nifontov's data

a) Source

A.S.Nifontov, Zernovoye proizvodstvo Rossii vo vtoroi polovinye XIX veka, M.1974, pp. 187,200-1,229, 278-9,286-7.

b) Groupings and regional coverage

See above

c) Notes

Like the Kovalchenko data, the Nifontov population data have been calculated by me from his grain production data net of seed and his per capita net grain production data.

d) Data

See table over page.

	1850s			1860s			1870s			1880s			1890s		
	Net Production	Per Capita	Population	Net Production	Per Capita	Population	Net Production	Per Capita	Population	Net Production	Per Capita	Population	Net Production	Per Capita	Population
1. NCR (N)															
Severnyi	2.138	1.41	1.52	2.137	1.37	1.56	2.095	1.26	1.66	2.877	1.56	1.84	3.556	1.71	2.08
Sev. Zapadnyi	3.698	1.34	2.76	3.780	1.30	2.91	4.541	1.35	3.36	5.743	1.51	3.80	6.261	1.35	4.64
Zapadnyi	10.621	1.63	6.52	12.803	1.80	7.11	16.616	2.10	7.91	17.371	1.83	9.49	22.841	1.95	11.71
Tsent.N.Ch.Zem	17.671	2.05	8.62	17.012	1.93	8.81	15.437	1.66	9.30	19.258	1.88	10.24	19.613	1.77	11.08
All NCR (N)			19.42			20.39			22.23			25.37			29.51
2. SPR (N)															
Ukr. Levober.	10.009	2.06	4.86	10.823	2.07	5.23	14.269	2.44	5.85	16.183	2.32	6.98	21.520	2.81	7.66
Ukr. Pravober.	11.041	2.12	5.21	12.440	2.17	5.73	15.922	2.56	6.22	19.281	2.60	7.42	25.045	2.60	9.63
Yuzh. Stepnoi	8.692	1.93	4.50	9.240	1.68	5.50	12.759	2.04	6.25	27.116	3.38	8.02	46.563	4.30	10.83
All SPR (N)			14.57			16.46			18.32			22.42			28.12
3. CPR (N)															
Tsent Ch.Zem	34.982	3.18	11.00	41.377	3.64	11.37	48.650	3.95	12.32	49.823	3.54	14.07	48.312	3.34	14.46
Yug. Vost.	6.073	2.41	2.52	5.525	2.04	2.71	6.075	1.92	3.16	9.626	2.46	3.91	11.459	2.37	4.84
N. Volzhskii	11.720	3.72	3.15	12.310	3.55	3.47	12.504	3.30	3.79	15.468	3.34	4.63	17.598	3.40	5.18
Sred. Volzhskii	8.222	3.06	2.69	8.767	3.06	2.87	9.165	2.96	3.10	10.817	3.02	3.58	12.011	3.21	3.74
All CPR (N)			19.36			20.42			22.37			26.19			28.22
4. EPR (N)															
Urals	12.107	2.91	4.16	10.882	2.41	4.52	13.646	2.94	4.64	16.005	2.90	5.52	22.895	3.77	6.07
All USSR (N)			57.51			61.79			67.56			79.50			91.92
Pribaltic	3,706	2.11	1.76	4.483	2.35	1.91	4.852	2.31	2.10	5.676	2.51	2.26	7.367	3.08	2.39
All incl. Baltic		2.37	59.27		2.38	63.70		2.53	69.66			81.76			94.31

iv) Groman's population data

a) Source V.G.Groman, in Entsiklopediya Russkogo Eksporta ,Tom 1, Berlin 1924, p.161, citing Materialyi k prodovolstvennomu planu. Proizvodstvo perevozki i potrebleniye khlebov v Rossii za 1909/13 gg.

b) Grouping of regions and coverage see above p.

c) The data

	1909/13
Region	Population in millions
NCR	
Sev. i Sev.Zap.	7.245
Zap.b)remaining	11.582
Tsent.Prom.	16.089
1/All NCR	34.916
2/SCR	
3/SPR	
Ukraine	38.042
Predkavkazskii	5.470
3/All SPR	43.512
4/CPR	
Tsent.Zem.	15.564
Yug.Vost i N.Volzh.	12.206
4/ All CPR	27.770
5/EPR	
Prikam i Priural	13.510
Vziat.Rossiya	26.563
5/ All EPR	40.073
All USSR	146.271

vi) Annual TsSK data 1880-1915

a) Sources

Data for the 50 Gubernii of European Russia were taken from V.Zaitsev, Vliyaniye kolebanii urozhaev na estestvennoye dvizheniye naseleniya, in V.G.Groman (ed.) Vliyanie neurozhaev na narodnoye khozyaistvo Rossii , chast 2, M.1927, pp.66-90. Data for non European Russia were taken from E.Z.Volkov, Dinamika naseleniya SSSR za vosemdesyat let, M.1930 and from various issues of Vremmenik TsSK and Statistiko Ekon.Sbornik po Sel. Khoz. Rossii.

b) Grouping of regions and coverage see above .

c) Notes . These are the TsSK data and refer to the registered population and not to the on hand population.

d) The data

See tables over page.

e) Summary table

See page

Total Population by Region

1. NCR

a) North and North West Regions

	Arkhangel G.	Vologda G.	Olonets G.	Petersburg G.	Novgorod G.	Pskov G.	Smolensk G.	Tver G.	1 a) Total N & NW
1880	276.3	1071.6	304.5	2015.5	1148.4	886.6	1190.2	1397.4	8,291
1881	280.2	1080.0	306.8	2007.1	1153.5	893.9	1199.4	1408.1	8,329
1882	283.6	1089.9	311.1	1997.1	1167.3	900.3	1220.6	1434.6	8.405
1883	287.7	1107.6	314.2	1990.1	1175.5	909.1	1235.3	1449.8	8.469
1884	292.1	1118.1	318.8	1993.1	1185.1	923.8	1259.3	1476.7	8,587
1885	297.1	1139.8	322.1	1995.7	1200.6	939.2	1275.1	1501.8	8,671
1886	299.1	1144.6	322.5	2000.5	1205.5	950.4	1283.4	1510.1	8,716
1887	304.3	1166.3	327.1	2008.3	1220.7	968.1	1305.0	1533.0	8,837
1888	310.0	1186.2	333.9	2018.8	1238.1	979.1	1326.5	1558.8	8.951
1889	315.1	1204.5	338.6	2026.0	1253.7	996.6	1356.0	1530.5	9,081
1890	318.8	1214.9	341.3	2037.9	1261.4	1010.1	1374.4	1606.0	9,165
1891	322.2	1228.4	346.4	2050.2	1276.8	1027.9	1349.6	1629.5	9,276
1892	327.6	1252.2	351.0	2064.3	1297.8	1051.0	1417.0	1660.0	9,421
1893	331.0	1259.6	352.1	2074.9	1312.7	1065.1	1435.8	1681.5	9,513
1894	334.0	1285.2	353.9	2084.0	1327.0	1076.7	1661.8	1707.2	9,630
1895	337.0	1304.5	355.1	2094.3	1347.1	1096.8	1483.8	1732.2	9,744
1896	342.7	1326.1	360.2	2103.0	1350.3	1108.5	1508.3	1747.4	9,847
1897	346.5	1341.8	364.2	2112.0	1367.0	1122.3	1525.3	1765.1	9,948
1898	352.8	1363.7	369.4	2125.7	1387.0	1138.9	1544.5	1784.6	10,077
1899	359.4	1380.0	374.7	2139.3	1404.7	1157.5	1573.0	1819.4	10,208
1900	366.0	1406.2	381.0	2157.5	1427.9	1178.2	1604.3	1856.6	10,378
1901	368.4	1417.7	383.3	2170.7	1442.3	1190.8	1629.7	1881.5	10,484
1902	370.3	1419.5	387.7	2184.1	1455.0	1202.5	1643.1	1894.5	10,557
1903	376.7	1441.6	392.5	2208.7	1481.3	1226.8	1678.4	1936.5	10,743
1904	383.3	1463.5	336.0	2224.4	1492.5	1232.1	1699.2	1955.4	10,786
1905	390.1	1492.0	400.2	2244.8	1515.4	1255.3	1734.7	1993.3	11,026
1906	395.5	1505.7	402.7	2258.6	1521.9	1266.7	1751.7	2009.2	11,112
1907	402.4	1523.2	407.4	2272.3	1541.7	1285.6	1782.7	2033.4	11,249
1908	410.7	1551.3	413.6	2289.2	1566.8	1305.9	1810.8	2070.5	11,419
1909	416.8	1564.0	418.5	2297.7	1583.4	1319.6	1824.1	2094.6	11,519
1910	423.1	1586.7	423.9	2314.7	1599.6	1337.8	1840.1	2118.4	11,644
1911	431.7	1610.3	1128.5	2320.9	1617.3	1356.0	1858.0	2140.5	11,763
1912	443.3	1636.0	437.5	2366.9	1621.3	1371.7	1918.3	2176.6	11,972
1913	451.5	1660.2	440.8	2375.9	1642.9	1392.5	1951.5	2205.1	12,120
1914	459.9	1684.6	451.0	2386.7	1665.1	1413.8	1987.0	2232.0	12,280
1915	467.0	1714.2	455.2	2397.3	1696.3	1435.4	2020.2	2268.8	12,455
1916	472.7								

Total Population by Region

1. NCR

b) Central Industrial Region

	Yaroslavl G.	Moscow G.	Vladimir G.	Kostroma G.	Kaluga G.	Nizhne Novgorod G.	Tula G.	Ryazan G.	Total Cent Ind. Region 1. b)
1880	927.0	2232.6	1234.6	1102.4	902.2	1279.9	1168.3	1378.7	10,226
1881	931.6	2236.2	1243.4	1112.2	917.8	1300.7	1185.4	1404.1	10.331
1882	943.5	2247.1	1263.3	1138.4	935.5	1321.8	1201.5	1428.9	10.480
1883	948.1	2242.9	1263.7	1161.1	943.8	1337.7	1211.1	1443.8	10,552
1884	958.7	2256.2	1282.5	1172.7	960.1	1348.8	1227.9	1473.8	10.681
1885	968.6	2276.3	1303.9	1190.4	968.0	1369.4	1242.0	1496.7	10,815
1886	966.1	2274.9	1311.1	1197.9	976.3	1388.7	1256.8	1520.3	10.892
1887	978.0	2282.8	1331.8	1218.3	992.3	1414.3	1271.6	1647.2	11.136
1888	988.7	2297.7	1348.0	1246.5	1005.4	1432.5	1294.8	1578.6	11.192
1889	1002.5	2321.6	1382.5	1254.3	1026.9	1455.8	1313.7	1612.6	11.370
1890	1002.7	2333.5	1394.4	1256.7	1039.1	1470.0	1325.0	1640.9	11,462
1891	1007.9	2343.4	1407.1	1269.0	1049.6	1489.1	1342.2	1664.9	11.573
1892	1021.8	2360.7	1427.5	1294.9	1058.8	1507.2	1352.3	1683.5	11.707
1893	1031.4	2370.3	1412.4	1305.4	1072.6	1509.5	1354.9	1688.0	11.745
1894	1043.8	2382.4	1461.5	1330.1	1090.3	1524.8	1367.5	1713.4	11.914
1895	1055.5	2400.2	1484.1	1347.5	1102.0	1543.4	1376.7	1739.7	12,049
1896	1061.9	2410.6	1494.6	1367.3	1116.8	1561.4	1394.7	1767.2	12.175
1897	1071.4	2430.6	1515.7	1387.0	1132.8	1584.7	1419.5	1802.2	12,344
1898	1081.1	2445.0	1535.5	1408.3	1141.1	1615.4	1442.1	1830.6	12.499
1899	1089.8	2464.1	1552.6	1424.3	1155.3	1632.0	1451.5	1884.7	12.654
1900	1111.9	2495.6	1580.6	1457.5	1177.9	1655.7	1470.1	1877.0	12,826
1901	1121.7	2518.3	1603.2	1471.8	1194.4	1680.2	1489.4	1914.0	12.993
1902	1125.3	2539.5	1620.7	1477.8	1205.2	1709.8	1511.2	1945.3	13.135
1903	1142.5	2579.3	1647.2	1504.0	1234.6	1736.0	1538.9	1983.0	13.366
1904	1151.1	2603.7	1679.6	1526.9	1248.8	1765.9	1568.5	2024.6	13.569
1905	1170.1	2642.5	1705.9	1560.6	1273.1	1798.1	1599.0	2066.3	13,816
1906	1177.9	2660.5	1724.8	1574.0	1281.6	1822.2	1602.3	2092.5	13.936
1907	1187.3	2695.6	1750.1	1588.8	1303.6	1851.1	1635.8	2128.7	14.141
1908	1204.9	2734.0	1780.3	1618.4	1326.7	1880.5	1602.8	2171.9	14.320
1909	1215.6	2766.3	1806.1	1635.8	1335.0	1909.7	1685.8	2211.4	14.566
1910	1227.8	2792.0	1833.5	1658.7	1346.5	1940.2	1708.0	2239.4	14,746
1911	1238.3	2825.5	1839.6	1680.0	1359.0	1973.9	1733.2	2276.6	14.926
1912	1248.7	2871.7	1881.9	1701.8	1384.7	1991.3	1760.0	2365.5	15.206
1913	1263.5	2899.0	1904.6	1724.5	1409.8	2025.3	1787.4	2408.5	15,423
1914	1276.6	2920.9	1934.4	1749.1	1431.9	2059.5	1806.4	2454.6	15.633
1915	1295.4	2948.5	1970.1	1782.7	1453.0	2088.6	1830.2	2500.1	15,869
1916									

Total Population by Region

1. NCR

	c) Belorussia					1. All NCR			
	Vitebsk G.	Minsk G.	Mogalevsk G.	1. c) All Belorussia	All Belorussia adjusted	1. a) N & NW	1. b) Cent. Ind.	1. c) Belorussia	1. All NCR
1880	1125.5	1128.6	1180.9	3,435	2.954	8.291	10.226	2.954	21.471
1881	1142.9	1139.0	1203.4	3,485	2.997	8.329	10.331	2.997	21.657
1882	1158.9	1148.9	1225.3	3,533	3.038	8.405	10.480	3.038	21.923
1883	1173.3	1159.3	1251.5	3,584	3.082	8.469	10.552	3.082	22.103
1884	1195.6	1170.3	1279.3	3,645	3.135	8.587	10.681	3.135	22.403
1885	1215.4	1181.5	1300.6	3,697	3.180	8.671	10.815	3.180	22.666
1886	1234.0	1190.4	1328.2	3,752	3.227	8.716	10.892	3.227	22.835
1887	1256.2	1200.6	1359.0	3,815	3.281	8.837	11.136	3.281	23.254
1888	1275.9	1210.3	1386.6	3,872	3.330	8.951	11.192	3.330	23.473
1889	1298.6	1220.3	1422.4	3,941	3.389	9.081	11.370	3.389	23.840
1890	1320.2	1229.8	1453.8	4,003	3.443	9.165	11.462	3.443	24.070
1891	1342.8	1240.7	1483.0	4,066	3.497	9.276	11.573	3.497	24.346
1892	1370.8	1251.9	1512.7	4,135	3.556	9.421	11.707	3.556	24.684
1893	1394.7	1260.9	1545.3	4,200	3.612	9.513	11.745	3.612	24.870
1894	1414.4	1268.6	1581.9	4,264	3.667	9.630	11.914	3.667	25.211
1895	1438.7	1278.2	1616.8	4,333	3.727	9.744	12.049	3.727	25.570
1896	1465.5	1288.6	1656.1	4,410	3.793	9.847	12.175	3.793	25.815
1897	1489.2	1299.4	1686.8	4,475	3.849	9.948	12.344	3.849	26.141
1898	1512.1	1305.6	1714.9	4,532	3.898	10.077	12.499	3.898	26.474
1899	1542.7	1318.7	1748.4	4,609	3.964	10.208	12.654	3.964	26.826
1900	1567.9	1330.3	1785.5	4,683	4.028	10.378	12.826	4.028	27.232
1901	1587.5	1340.1	1813.3	4.740	4.076	10.484	12.993	4.076	27.553
1902	1604.4	1349.2	1841.6	4,795	4.124	10.557	13.135	4.124	27.816
1903	1628.4	1361.4	1880.2	4,870	4.188	10.743	13.366	4.188	28.297
1904	1632.8	1370.2	1907.3	4,910	4.223	10.786	13.569	4.223	28.578
1905	1659.1	1381.3	1945.0	4,985	4.287	11.026	13.816	4.287	29.129
1906	1675.8	1385.2	1975.8	5,036	4.331	11.112	13.936	4.331	29.379
1907	1694.4	1384.1	2007.6	5,096	4.383	11.249	14.141	4.383	29.773
1908	1702.3	1399.2	2012.0	5,113	4.397	11.419	14.320	4.397	30.136
1909	1710.1	1406.4	2001.9	5,116	4.400	11.519	14.566	4.400	30.485
1910	1723.9	1409.7	2017.4	5,151	4.430	11.644	14.746	4.430	30.820
1911	1742.2	1414.9	2043.7	5,200	4.472	11.763	14.926	4.472	31.161
1912	1754.3	1427.3	2082.8	5,264	4.527	11.972	15.206	4.527	31.705
1913	1781.1	1434.8	2121.3	5,337	4.590	12.120	15.423	4.590	32.133
1914	1802.0	1442.2	2157.7	5,401	4.645	12.280	15.633	4.645	32.558
1915	1829.2	1448.0	2194.3	5,471	4.705	14.455	15.869	4.705	33.029
1916									

Total Population by Region

2. SCR

a) Transcaucasia

	Baku G.	Batumi G.	Elisavetpol G.	Kutaisi G.	Sukhumi G.	Tiflis G.	Zakatalskii Ok.	Erivan G.	All Transcaucasia	Volkova data for all ZSFSR	ZSFSR data (volkova) adjusted
1880										3.116	3.05
1881										3.385	3.32
1882										3.436	3.37
1883										3.489	3.43
1884										3.543	3.48
1885										3.597	3.53
1886										3.664	3.60
1887										3.731	3.66
1888										3.799	3.73
1889										3.875	3.80
1890										3.945	3.87
1891										4.019	3.95
1892										4.093	4.02
1893										4.170	4.09
1894										4.218	4.14
1895										4.327	4.25
1896										4.408	4.33
1897										4.493	4.41
1898										4.643	4.56
1899										4.692	4.61
1900										4.766	4.68
1901										4.818	4.73
1902										4.899	4.81
1903										4.988	4.90
1904										5.044	4.95
1905										5.138	5.04
1906										5.267	5.17
1907										5.422	5.32
1908										5.544	5.44
1909										5.597	5.50
1910										5.617	5.52
1911										5.689	5.59
1912										5.813	5.71
1913	1.074	0.171	1.050	1.042	0.141	1.220	0.099	1.002	5.799	5.906	5.79
1914										5.989	5.88
1915											

Total Population by Region

2. SCR

b) Central Asia							All SCR		
	Zakaspiskaya G.	Ferganskaya G.	Samarkandskaya G.	Total. Central Asia	Central Asia (Volkovs data)	Central Asia Volkovs data adjusted	a) ZSFSR	b) Cent. Asia	2. All SCR
1880					3.252	1.761	3.05	1.76	4.81
1881					3.285	1.782	3.32	1.78	5.10
1882					3.317	1.799	3.37	1.799	5.17
1883					3.350	1.817	3.43	1.817	5.25
1884					3.383	1.835	3.48	1.835	5.32
1885					3.416	1.853	3.53	1.85	5.38
1886					3.541	1.921	3.60	1.921	5.52
1887					3.667	1.989	3.66	1.989	5.65
1888					3.795	2.059	3.73	2.059	5.74
1889					3.955	2.145	3.80	2.145	5.95
1890					4.093	2.221	3.87	2.22	6.09
1891					4.245	2.303	3.95	2.303	6.25
1892					4.393	2.383	4.02	2.383	6.40
1893					4.566	2.477	4.09	2.477	6.57
1894					4.727	2.564	4.14	2.564	6.70
1895					4.901	2.659	4.25	2.65	6.91
1896					5.082	2.757	4.33	2.757	7.09
1897					5.281	2.865	4.41	2.87	7.28
1898					5.367	2.911	4.56	2.911	7.47
1899					5.458	2.961	4.61	2.961	7.57
1900					5.545	3.008	4.68	3.01	7.69
1901					5.634	3.057	4.73	3.06	7.79
1902					5.724	3.106	4.81	3.14	7.92
1903					5.818	3.157	4.90	3.16	8.06
1904					5.911	3.207	4.95	3.21	8.16
1905					6.008	3.260	5.04	3.26	8.30
1906					6.119	3.320	5.17	3.32	8.49
1907					6.234	3.382	5.32	3.38	8.70
1908					6.397	3.471	5.44	3.47	8.91
1909					6.508	3.531	5.50	3.53	9.03
1910					6.589	3.575	5.52	3.58	9.10
1911					6.668	3.618	5.59	3.62	9.21
1912					6.865	3.725	5.71	3.73	9.44
1913	0.508	2.116	1.194	3.818	7.037	3.818	5.78	3.81	9.62
1914					7.148	3.878	5.88	3.88	9.76
1915									

Total Population by Region

3. SPR

a) Ukraine

	Poltava G.	Kharkhov G.	Chernigov G.	Kiev G.	Volyinsk G.	Podolsk G.	Kherson G.	Ekaterinoslavl G.	Tavricheskaya G.	Total Ukraine	Total Ukraine (adjusted)
1880	2009.8	1882.0	1703.4	2666.4	2280.0	2324.5	2013.1	1463.0	1042.5	17,384	16.95
1881	2024.3	1915.8	1742.7	2718.3	2310.5	2358.9	2052.4	1496.9	1062.8	17,682	17.24
1882	2062.8	1953.3	1763.3	2760.1	2333.9	2396.1	2073.0	1535.9	1084.6	17,963	17.51
1883	2100.1	1971.8	1786.0	2800.5	2361.1	2429.5	2095.7	1563.9	1100.8	18,209	17.82
1884	2143.8	2000.9	1813.1	2843.6	2395.1	2464.8	2123.8	1603.7	1119.5	18,508	18.04
1885	2199.4	2018.6	1844.7	2906.3	2440.2	2514.8	2163.1	1641.0	1142.7	18,900	18.42
1886	2245.7	2092.6	1871.1	2964.6	2476.9	2563.8	2200.3	1685.4	1165.5	19,265	18.78
1887	2282.9	2119.9	1915.9	3021.8	2521.9	2614.5	2235.4	1715.8	1182.1	19,610	19.12
1888	2329.5	2141.4	1951.4	3084.5	2565.5	2666.4	2279.5	1752.8	1205.6	19,976	19.47
1889	2385.3	2188.7	1995.9	3145.9	2604.4	2709.3	2315.3	1793.4	1225.9	20,365	19.58
1890	2444.9	2624.0	2034.1	3197.6	2651.9	2754.6	2376.3	1826.6	1250.3	20,760	20.241
1891	2478.5	2249.1	2062.0	3248.5	2696.9	2796.0	2418.3	1849.4	1273.6	21,072	20.54
1892	2529.7	2271.0	2093.8	3311.1	2751.1	2847.5	2469.0	1877.3	1298.3	21,449	20.91
1893	2568.2	2290.9	2127.2	3349.5	2794.1	2872.6	2508.7	1907.9	1316.4	21,736	21.19
1894	2624.0	2348.3	2175.0	3392.1	2853.0	2892.7	2559.6	1949.8	1346.1	22,141	21.587
1895	2681.0	2393.9	2214.4	3446.3	2891.2	2930.5	2613.1	1998.0	1376.0	22,544	21.981
1896	2722.5	2436.1	2253.9	3493.1	2924.4	2967.6	2668.8	2047.4	1409.4	22,923	22.350
1897	2778.2	2432.3	2297.9	3559.2	2989.5	3018.3	2733.6	2113.7	1447.8	23,371	22.787
1898	2832.8	2552.8	2330.3	3630.5	3051.9	3075.8	2795.9	2117.6	1484.7	23,872	23.275
1899	2880.2	2598.2	2365.8	3700.2	3112.4	3128.1	2852.3	2241.3	1520.8	24,399	23.789
1900	2928.0	2653.5	2401.3	3263.4	3471.9	3177.4	2907.6	2307.5	1555.7	24,666	24.050
1901	2968.7	2699.8	2444.6	3831.8	3237.5	3233,9	2965.8	2375.9	1588.5	25,347	24.713
1902	3008.4	2750.9	2480.7	3893.5	3302.8	3287.8	3010.8	2435.6	1605.9	25,776	25.132
1903	3054.4	2796.3	2527.1	3967.7	3371.2	3349.1	3076.7	2492.9	1634.8	26,277	25.620
1904	3112.3	2847.9	2572.5	4043.1	3435.3	3408.8	3136.9	2548.0	1656.4	26,761	26.092
1905	3168.8	2904.4	2620.4	4116.6	3496.1	3466.0	3193.5	2625.7	1694.2	27,285	26.604
1906	3205.6	2943.3	2655.9	4172.2	3541.5	3495.1	3247.6	2678.9	1721.2	27,661	26.969
1907	3257.8	2996.5	2692.8	4232.8	3603.2	3539.6	3289.8	2746.3	1742.7	28.102	27.399
1908	3294.9	3036.9	2698.2	4277.7	3669.2	3608.1	3355.3	2816.0	1777.3	28,529	27.816
1909	3304.9	3065.2	2701.4	4306.3	3723.9	3669.2	3388.9	2868.4	1798.2	28,826	28.105
1910	3305.1	3089.5	2718.4	4327.9	3778.4	3705.0	3414.5	2901.8	1813.4	29,054	28.329
1911	3327.9	3114.4	2741.9	4351.1	3828.3	3729.5	3430.7	2923.2	1836.7	29,284	28.552
1912	3368.0	3149.1	2790.4	4379.7	3879.5	3797.1	3479.2	2995.4	1880.9	29,719	28.976
1913	3434.1	3222.1	2843.9	4467.5	3970.0	3867.5	3544.2	3076,6	1920.2	30,346	29.587
1914	3480.8	3279.6	2887.8	4533.8	4023.0	3914.2	3573.4	3141.8	1947.9	30,783	30.013
1915	3530.0	3335.0	2928.5	4603.8	4077.3	3969.3	3618.1	3206.2	1973.4	31,242	30.461
1916											

Total Population by Region

3. SPR

	b) North Caucasus								All SPR		
	Voinsko Don Ob.	Kuban Ob.	Stavropol G.	Tersk G.	Chernomorsk G.	Dagestan Ob.	All N. Caucasus	All N. Caucasus (Volkova data)	a) Ukraine	b) N. Caucasus	All SPR
1880								4.212	16.950	4.212	21.162
1881								4.367	17.740	4.367	21.607
1882								4.448	17.514	4.448	21.962
1883								4.602	17.827	4.602	22.429
1884								4.757	18.045	4.757	22.802
1885								4.906	18.428	4.906	23.334
1886								5.047	18.783	5.047	23.830
1887								5.139	19.120	5.139	24.259
1888								5.184	19.477	5.184	24.661
1889								5.577	19.856	5.577	25.433
1890								5.637	20.241	5.637	25.878
1891								5.875	20.545	5.875	26.420
1892								6.008	20.913	6.008	26.921
1893								6.145	21.193	6.145	27.338
1894								6.299	21.587	6.299	27.886
1895								6.462	21.981	6.462	28.443
1896								6.629	22.350	6.629	28.979
1897								6.919	22.787	6.919	29.706
1898								6.954	23.275	6.954	30.299
1899								7.105	23.789	7.105	30.894
1900								7.259	24.050	7.259	31.309
1901								7.454	24.713	7.454	32.167
1902								7.624	25.132	7.624	32.747
1903								7.828	25.620	7.828	33.448
1904								8.037	26.092	8.037	34.129
1905								8.097	26.604	8.097	34.701
1906								8.220	26.969	8.220	35.189
1907								8.619	27.399	8.619	36.019
1908								8.649	27.816	8.649	36.465
1909								9.019	28.105	9.019	37.124
1910								9.235	28.328	9.235	37.563
1911								9.481	28.552	9.481	38.033
1912								9.838	28.976	9.838	38.814
1913	3.785	2.912	1.312	1.247	0.140	0.715	10.111	10.108	29.587	10.108	39.695
1914								10.523	30.013	10.523	40.536
1915									30.461		

Total Population by Region

4. CPR

a) Central Chernozem					
	Voronezh G.	Kursk G.	Orlov G.	Tambov G.	Total Chernozem
1880	1990.9	1855.6	1558.8	2086.5	7,491
1881	2017.1	1887.9	1611.9	2113.8	7,630
1882	2053.8	1921.1	1641.1	2151.9	7,767
1883	2061.0	1926.5	1654.0	2175.9	7,817
1884	2094.8	1955.3	1675.6	2206.4	7,932
1885	2147.7	1976.4	1699.9	2258.6	8,082
1886	2190.4	2015.2	1720.1	2301.6-	8,227
1887	2235.4	2056.2	1752.5	2353.8	8,398
1888	2275.0	2101.3	1786.0	2409.8	8,572
1889	2326.2	2149.7	1825.2	2461.8	8,763
1890	2365.8	2189.6	1851.1	2501.5	8,908
1891	2391.2	2214.1	1872.4	2530.5	9,008
1892	2422.5	2246.4	1892.2	2555.2	9,116
1893	2387.6	2258.5	1905.0	2515.0	9,106
1894	2431.7	2274.1	1936.8	2587.5	9,230
1895	2466.3	2291.1	1961.2	2608.9	9,327
1896	2490.2	2329.2	1993.9	2632.8	9,446
1897	2531.3	2371.0	2033.8	2684.0	9.62
1898	2590.1	2411.5	2062.4	2739.8	9.80
1899	2621.3	2435.1	2072.3	2754.9	9.88
1900	2674.0	2464.1	2100.0	2802.3	10.040
1901	2735.2	2496.9	2136.6	2864.7	10.233
1902	2789.9	2536.1	2172.9	2911.9	10.41
1903	2836.0	2588.9	2214.1	2961.0	10.6
1904	2914.9	2642.3	2258.2	3030.2	10.846
1905	2990.6	2703.4	2309.4	3105.1	11,108
1906	3047.6	2748.3	2337.2	3159.3	11.292
1907	3103.4	2796.5	2372.3	3219.5	11.492
1908	3151.6	2836.4	2403.5	3276.3	11.668
1909	3175.9	2835.7	2413.9	3319.3	11.745
1910	3183.9	2819.0	2423.2	2341.5	11.767
1911	3221.4	2860.3	2455.0	3419.2	11.956
1912	3287.6	2918.6	2500.2	3449.7	12.156
1913	3361.7	2974.0	2544.1	3507.5	12.387
1914	3418.0	3027.0	2584.7	3551.5	12.581
1915	3473.5	3077.4	2618.1	3615.0	12.784
1916					

Cont'd...

Total Population by Region (cont'd)

4. CPR

b) Volga

	Astrakhan G.	Saratov G.	Samara G.	Penza G.	Simbirsk G.	Kazan G.	Vyatka G.	Ula G.
1880	875.9	1932.0	2136.0	1168.5	1225.7	1738.3	2391.7	1629.9
1881	883.4	1948.2	2169.1	1187.5	1247.8	1767.3	2430.5	1661.3
1882	893.2	1971.6	2208.3	1214.5	1276.2	1798.4	2471.3	1702.6
1883	902.1	1992.3	2244.5	1229.5	1287.1	1820.3	2514.8	1737.8
1884	903.9	2002.5	2263.4	1237.0	1295.3	1841.4	2550.0	1754.8
1885	913.8	2050.5	2317.1	1260.1	1316.8	1873.2	2605.5	1795.6
1886	925.1	2089.5	2370.4	1286.0	1341.1	1901.9	2620.9	1829.1
1887	934.6	2132.2	2420.5	1316.0	1366.8	1934.1	2650.4	1867.7
1888	942.9	2175.8	2474.4	1339.3	1395.5	1968.5	2683.3	1891.8
1889	952.8	2216.3	2577.4	1364.9	1421.9	2003.9	2735.8	1924.5
1890	961.9	2256.2	2569.4	1385.2	1444.5	2029.4	2767.0	1960.8
1891	970.2	2285.3	2612.6	1401.8	1456.6	2055.4	2784.2	1991.5
1892	977.4	2307.2	2654.3	1406.8	1470.2	2079.6	2837.8	2026.7
1893	964.0	2272.0	2694.6	1401.6	1455.9	2060.9	2845.1	2015.7
1894	972.9	2213.9	2617.4	1412.7	1465.4	2076.0	2891.4	2045.8
1895	982.2	2343.6	2658.8	1429.2	1484.2	2103.4	2937.5	2101.4
1896	991.7	2367.5	2693.7	1444.4	1499.0	2131.3	2995.4	2149.8
1897	1003.5	2405.8	2751.3	1470.5	1527.8	2170.7	3030.8	2196.6
1898	1017.2	2457.5	2814.6	1497.3	1560.3	2212.7	3087.3	2254.6
1899	1029.8	2485.9	2843.3	1510.7	1574.7	2258.1	3117.6	2291.0
1900	1044.5	2516.8	2866.7	1536.3	1586.7	2276.2	3172.7	2324.6
1901	1057.6	2576.9	2937.5	1567.8	1617.4	2321.2	3219.1	2369.0
1902	1071.0	2627.2	2997.6	1599.8	1648.5	2360.9	3271.9	2425.2
1903	1080.6	2668.3	3047.6	1626.3	1669.1	2384.0	3305.5	2466.9
1904	1096.9	2723.4	3126.4	1657.4	1702.3	2431.4	3377.5	2533.4
1905	1116.5	2780.4	3177.2	1691.0	1742.5	2476.1	3432.1	2562.7
1906	1128.3	2829.5	3237.5	1711.3	1774.9	2514.5	3467.7	2616.5
1907	1143.9	2878.3	3305.0	1738.7	1809.4	2561.7	3502.2	2688.7
1908	1161.4	2932.0	3349.1	1770.8	1848.6	2594.7	3556.1	2738.0
1909	1175.3	2967.5	3384.8	1799.9	1882.3	2631.6	3605.9	2798.3
1910	1189.6	3003.6	3430.5	1823.8	1912.4	2667.9	3653.2	2848.5
1911	1205.4	3041.0	3478.5	1857.6	1942.6	2703.4	3708.5	2916.3
1912	1229.3	3070.8	3535.6	1880.1	1969.8	2736.9	3762.8	2959.6
1913	1248.9	3115.2	3591.3	1908.4	1993.8	2767.1	3795.6	2996.8
1914	1268.9	3165.0	3669.5	1931.4	2024.1	2801.1	3851.8	3042.2
1915	1292.1	3220.8	3749.9	1957.6	2058.2	2837.8	3869.6	3101.0
1916								

Total population by region cont'd..

4. CPR	4. All CPR		
	a) C.Ch.Zem	b) Volga	all CPR
1880	7.491	12.098	20.589
1881	7.630	13.295	20.925
1882	7.767	13.536	21.303
1883	7.817	13.728	21.545
1884	7.932	13.848	21.780
1885	8.082	14.133	21.215
1886	8.227	14.364	22.591
1887	8.398	14.622	23.020
1888	8.572	14.872	23.447
1889	8.763	15.198	23.961
1890	8.908	15.374	24.282
1891	9.008	15.558	24.566
1892	9.116	15.760	24.876
1893	9.106	15.710	24.816
1894	9.230	15.696	24.926
1895	9.327	16.040	25.367
1896	9.446	16.273	25.719
1897	9.620	16.557	26.177
1898	9.800	16.902	26.702
1899	9.880	17.111	26.991
1900	10.040	17.325	27.365
1901	10.233	17.667	27.900
1902	10.41	18.002	28.412
1903	10.60	18.248	28.848
1904	10.846	18.649	29.495
1905	11.108	18.979	30.087
1906	11.292	19.280	30.572
1907	11.492	19.628	31.120
1908	11.668	19.951	31.619
1909	11.745	20.246	31.991
1910	11.767	20.530	32.297
1911	11.956	20.853	32.809
1912	12.156	21.145	33.301
1913	12.387	21.417	33.804
1914	12.581	21.754	34.335
1915	12.784	22.087	34.871

Total Population by Region

5 EPR

a) Urals

	Perm G.	Orenburg G.	All Urals.
1880	2450.8	1233.3	3.684
1881	2487.4	1259.3	3.747
1882	2527.4	1279.9	3.807
1883	2562.8	1297.5	3.860
1884	2583.8	1315.7	3.900
1885	2616.8	1336.0	3.953
1886	2637.4	1364.1	4.002
1887	2664.7	1386.9	4.052
1888	2695.5	1411.8	4.107
1889	2741.2	1440.8	4.182
1890	2773.1	1464.0	4.237
1891	2789.2	1484.7	4.274
1892	2828.9	1509.6	4.339
1893	2824.7	1492.6	4.317
1894	2872.3	1504.4	4.377
1895	2912.3	1537.0	4.449
1896	2960.1	1568.4	4.529
1897	2994.3	1600.1	4.594
1898	3043.2	1636.5	4.680
1899	3081.0	1666.2	4.747
1900	3133.6	1700.9	4.835
1901	3190.8	1741.5	4.932
1902	3236.9	1785.7	5.023
1903	3266.0	1831.0	5.097
1904	3322.1	1877.1	5.199
1905	3375.0	1912.8	5.288
1906	3421.9	1955.4	5.377
1907	3469.5	2001.5	5.471
1908	3530.9	2039.9	5.571
1909	3594.1	2075.0	5.669
1910	3627.1	2115.7	5.743
1911	3697.8	2155.4	5.853
1912	3756.9	2175.7	5.933
1913	3791.1	2214.4	6.006
1914	3831.6	2264.3	6.096
1915	3881.0		
1916			

Cont'd....

Total Population by Region

5. EPR

b) Siberia

	Tobolsk G.	Tomsk G.	Amur	Enisei	Irkutsh	Yakutsh	Zabaikal	Komchatka	Primarskaya	Sakhalin	All Siberia	All Siberia (Volkov's data)
1880												3.965
1881												4.034
1882												4.089
1883												4.176
1884												4.251
1885												4.310
1886												4.427
1887												4.539
1888												4.667
1889												4.791
1890												4.923
1891												5.101
1892												5.239
1893												5.320
1894												5.469
1895												5.656
1896												5.810
1897												5.750
1898												6.027
1899												6.214
1900												6.395
1901												6.525
1902												6.728
1903												6.956
1904												7.103
1905												7.314
1906												7.698
1907												8.332
1908												8.671
1909												8.821
1910												8.877
1911												9.089
1912												9.455
1913	2.006	3.920	0.241	0.983	0.734	0.328	0.921	0.039	0.604	0.014	9.790	9.732
1914												
1915												
1916												

Total Population by Region

5. EPR
c) Kazakhstan (Steppe Region)

	Akmolinsk G.	Semipolatinsk G.	Semirechensk G.	Uralskaya G.	Turgai G.	Syir Daryisk G.	All Kazakhstan	All Steppe Region Volkov's data	All Steppe Region Volkov's data adjusted	5. All EPR a) Urals	b) Siberia	c) Kazakhstan
1880								1.778	3.29	3.68	3.97	3.29
1881								1.801	3.33	3.747	4.03	3.33
1882								1.820	3.37	3.807	4.09	3.37
1883								1.848	3.42	3.860	4.18	3.42
1884								1.872	3.46	3.906	4.25	3.46
1885								1.893	3.50	3.95	4.31	3.50
1886								1.936	3.58	4.002	4.43	3.58
1887								1.978	3.66	4.052	4.54	3.66
1888								2.021	3.74	4.107	4.67	3.74
1889								2.066	3.82	4.182	4.78	3.82
1890								2.112	3.91	4.24	4.92	3.91
1891								2.178	4.03	4.274	5.10	4.03
1892								2.229	4.12	4.339	5.24	4.12
1893								2.269	4.20	4.317	5.32	4.20
1894								2.311	4.28	4.377	5.47	4.28
1895								2.381	4.41	4.45	5.66	4.41
1896								2.481	4.59	4.529	5.81	4.59
1897								2.466	4.57	4.59	5.75	4.57
1898								2.559	4.73	4.680	6.03	4.73
1899								2.636	4.88	4.747	6.21	4.88
1900								2.718	5.03	4.84	6.40	5.03
1901								2.799	5.18	4.93	6.575	5.18
1902								2.885	5.34	5.02	6.728	5.34
1903								2.970	5.50	5.10	6.956	5.50
1904								3.056	5.66	5.20	7.103	5.66
1905								3.141	5.81	5.288	7.319	5.81
1906								3.262	6.00	5.377	7.698	6.00
1907								3.330	6.16	5.471	8.332	6.16
1908								3.444	6.38	5.571	8.671	6.38
1909								3.526	6.53	5.669	8.821	6.53
1910								3.590	6.65	5.743	8.877	6.65
1911								3.659	6.77	5.853	9.089	6.77
1912								3.752	6.95	5.933	9.457	6.95
1913	1.492	0.862	1.257	0.850	0.690	1.990	7.140	3.857	7.140	6.006	9.732	7.140
1914								3.956	7.32	6.096		7.32
1915												

Population Appendix

1880–1915 Summary Table

	All CR	NCR	SCR	All PR	SPR	CPR	EPR	All USSR
1883	27.35	22.10	5.25	55.44	22.43	21.55	11.46	82.19
84	27.72	22.40	5.32	56.19	22.80	21.78	11.41	83.91
1885	28.05	22.67	5.38	57.31	23.33	22.22	11.76	85.36
86	28.36	22.84	5.52	58.43	23.83	22.59	12.01	86.79
87	28.90	23.25	5.65	59.53	24.26	23.02	12.25	88.43
88	29.26	23.47	5.79	60.62	24.66	23.44	12.52	89.88
89	29.79	23.84	5.95	62.17	25.43	23.96	12.78	91.96
1890	30.16	24.07	6.09	63.23	25.88	24.28	13.07	93.39
91	30.60	24.35	6.25	64.39	26.42	24.57	13.40	94.99
92	31.08	24.68	6.40	65.5	26.92	24.88	13.70	96.58
93	31.44	24.87	6.57	65.99	27.34	24.82	13.83	97.43
94	31.91	25.21	6.70	66.94	27.89	24.93	14.12	98.85
1895	32.43	25.52	6.91	68.33	28.44	25.37	14.52	100.76
96	32.91	25.82	7.09	69.63	28.98	25.72	14.93	102.54
97	33.42	26.14	7.28	70.80	29.71	26.18	14.91	104.22
98	33.94	26.47	7.47	72.37	30.23	26.70	15.44	106.37
99	34.40	26.83	7.57	73.71	30.89	26.99	15.83	108.11
1900	34.92	27.23	7.69	74.95	31.31	27.37	16.27	109.87
01	35.34	27.55	7.79	76.71	32.17	27.90	16.64	112.05
02	35.74	27.82	7.92	78.25	32.75	28.41	17.09	113.99
03	36.36	28.30	8.06	79.85	33.45	28.85	17.55	116.21
04	36.74	28.58	8.16	81.59	34.13	29.50	17.96	118.33
1905	37.43	29.13	8.30	83.21	34.70	30.09	18.42	120.64
06	37.87	29.38	8.49	84.84	35.19	30.57	19.08	122.71
07	38.47	29.77	8.70	87.10	36.02	31.12	19.96	125.57
08	39.05	30.14	8.91	88.71	36.47	31.62	20.62	127.76
09	39.52	30.49	9.03	90.13	37.12	31.99	21.02	129.65
1910	39.92	30.82	9.10	91.13	37.56	32.30	21.27	131.05
11	40.37	31.16	9.21	92.55	38.03	32.81	21.71	132.92
12	41.15	31.71	9.44	94.45	38.81	33.30	22.34	135.60
13	41.75	32.13	9.62	96.38	39.70	33.80	22.88	138.13
14	42.32	32.56	9.76	98.81	40.54	34.87	(23.40)	141.13
1915		33.03						

All population in approximate pre 1939 area of USSR

Year	NCR	SCR	SPR	CPR	EPR	USSR	Volkov USSR
1880	21.47	4.81	22.16	20.59	10.94	79.97	78.59
1885	22.67	5.38	23.33	22.22	11.76	85.36	84.95
1890	24.07	6.09	25.88	24.28	13.07	93.39	92.82
1885	25.52	6.91	28.44	25.37	14.52	100.76	100.28
1900	27.23	7.69	31.31	27.37	16.27	109.87	109.59
1905	29.13	8.30	34.70	30.09	18.42	120.64	120.08
1910	30.82	9.10	37.56	32.30	21.27	131.05	130.35
1914	32.56	9.76	40.54	34.87	23.40	141.13	139.91
Average annual growth rate							
1885/80	1.1%	2.4%	1.1%	1.6%	1.5%	1.3%	1.6%
1890/85	1.2%	2.6%	2.2%	1.9%	2.2%	1.9%	1.9%
1895/90	1.2%	2.7%	2.0%	0.9%	2.2%	1.6%	1.6%
1900/1895	1.3%	2.3%	2.0%	1.6%	2.4%	1.8%	1.9%
1905/00	1.4%	1.6%	2.2%	2.0%	2.6%	2.0%	1.9%
1910/05	1.2%	1.9%	1.6%	1.5%	3.1%	1.7%	1.7%
1914/10	1.4%	1.8%	2.0%	2.0%	2.5%	1.9%	1.8%
Rural population (unadjusted)							
1880	17.21		(19.31)	18.93			68.13
1885	18.29		(20.25)	20.43			73.91
1890	19.49		(22.49)	22.33			81.01
1895	20.75		(24.75)	23.33			87.77
1900	22.16		(27.19)	25.16			95.53
1905	23.77		(30.17)	27.66			103.59
1910	25.19		(32.73)	29.69			111.77
1914	26.67		(35.45)	32.10			119.47
Urban population (unadjusted)							
1880	4.26		(2.85)	1.66			10.16
1885	4.38		(3.08)	1.79			11.01
1890	4.58		(3.39)	1.95			11.82
1895	4.77		(3.69)	2.04			12.50
1900	5.07		(4.12)	2.21			14.06
1905	5.36		(4.53)	2.43			16.50
1910	5.63		(4.83)	2.61			18.59
1914	5.89		(5.09)	2.77			20.45
% Urban to all population (unadjusted)							
1880	19.8		(12.9)	8.1			12.9
1885	19.3		(13.2)	8.1			13.0
1890	19.0		(13.1)	8.0			12.7
1895	18.7		(13.0)	8.0			12.5
1900	18.6		(13.2)	8.1			12.8
1905	18.4		(13.1)	8.1			13.7
1910	18.3		(12.9)	8.1			14.3
1914	18.1		(12.6)	7.9			14.6

Sources: See appendix for regional data compilation, Volkov's all union data fron E.Z.Volkov, Dinamika narodonaseleniya SSSR za 80 let, M.1930, pp. 264-271

Notes for an account of the adjustments needed see text.

Urban population (adjusted)

Year	NCR	SCR	SPR	CPR	EPR	USSR	Volkov USSR
1880	3.80		(2.54)	1.48			10.16
1885	4.13		(2.91)	1.69			11.01
1890	4.43		(3.28)	1.89			11.82
1895	4.72		(3.65)	2.02			12.50
1900	5.23		(4.25)	2.28			14.06
1905	5.87		(4.96)	2.66			16.50
1910	6.50		(5.57)	3.01			18.59
1914	7.16		(6.18)	3.37			20.45

Rural population (adjusted)

1880	17.67		(19.62)	19.11			68.13
1885	18.54		(20.42)	20.53			73.91
1890	19.64		(22.60)	22.39			81.01
1895	20.80		(24.79)	23.35			87.77
1900	22.00		(27.06)	25.09			95.53
1905	23.26		(29.74)	27.43			103.59
1910	24.32		(31.99)	28.93			111.77
1914	25.40		(34.36)	31.50			119.47

% Urban to all population

1880	17.7%		(11.5%)	7.2%			12.9%
1885	18.2%		(12.5%)	7.6%			13.0%
1890	18.4%		(12.7%)	7.8%			12.7%
1895	18.5%		(12.8%)	8.0%			12.5%
1900	19.2%		(13.6%)	8.3%			12.8%
1905	20.2%		(14.3%)	8.8%			13.7%
1910	21.1%		(14.8%)	9.3%			14.3%
1914	22.0%		(15.2%)	9.7%			14.6%

v) Lositsky's population data

a) Source, A.E.Lositsky, Urozhai khlebov v Rossii v 1917 g,M.1917 pp. 29.

b) Grouping of data and coverage see above p.

c) The data

	1917/18		
	All	Urban	Rural
NCR	29.6	9.1	20.5
SCR	14.4	3.1	11.3
SPR	38.7	9.4	29.3
CPR	36.9	5.3	31.6
EPR	21.0	2.9	18.1
All	140.6	29.8	110.8

b) Post revolutionary population data

i) Sources

1) Pre revolutionary TsSK figures regrouped by me see above

2) 1897, 1914 and 1920 from Trudy TsSU, Tom VIII, vyp.1, M.1921, pp.2-7.

3) 1897, 1916, 1920 from N.D.Kondratiev (ed.) N.P.Oganovsky (compiler (compiler) Selskoye khozyaistvo Rossii v XX veke, M.1923, pp.28-3

4) 1923/24 from Trudy TsSU, Tom XXIX, M.1926, p.

5) 1920, 1925 from Trudy TsSU, Tom VIII, vyp.7, M.1926 pp.2-7

6) 1926 amd 1927 estimates and 17/12/1926 census from Vsesoyuznaya Perepis naseleniya 17 Dekabria 1926g. Predvaritelniye itogyi vyp.1, M.1927, pp.37-40

7) 1926, 1927 and 1928 from Predpolozhitelnyi khlebo furazhnyi balans na 1927/28 sel.khoz. god..., M.1927, pp.28-31.

8) 1927 and 1931 from Narodnoye khozyaistvo SSSR, M.1932, pp. 402-3

9) 1920 and 1923 censuses from Trudy TsSU, Tom VIII, vyp.1, M.1921, PP.2-4, Trudy TsSU, Tom VIII, vyp. 7, M.1926, pp.2-7, and Trudy TsSU, Tom XVIII, M. 1924 pp.2-4

ii) Regional series of population data

Regional population data 1897-1920

	1897	1914	1920
1. NCR			
a) Sev & Sev Zap			
1 Arkhangelskaya	0.279	0.362	0.361
2 Murmanskaya	0.009	0.013	0.019
3 Olonetskaya	0.191	0.234	0.217
4 Komi A.O.			
5 Sev.Dvinsky	0.500	0.620	0.632
6 Vologodskaya	0.798	0.939	0.913
7 Cherepovetskaya	0.559	0.664	0.632
8 Karelia ASSR			
9 Leningrad (town)	1.265	2.008	0.706
10 Leningradskaya	0.847	0.918	0.894
11 Novgorodskaya	0.808	0.907	0.906
12 Pskov	1.122	1.336	1.250
b) Tsent Prom			
13 Vladimirskaya	1.203	1.486	1.285
14 Moscow (town)	1.043	1.695	1.028
15 Moskovskaya	1.428	1.750	1.666
16 Iv.Voznesensk	0.595	0.714	0.660
17 Nizhegorodskaya	1.585	1.950	1.833
18 Kostromskaya	1.041	1.271	1.204
19 Tverskaya	1.482	1.889	1.813
20 Yaroslavskaya	0.568	0.627	0.651
21 Kaluzhskaya	0.892	1.074	0.955
22 Ryibinskaya	0.671	0.762	0.771
23 Ryazanskaya	1.827	2.589	2.158
24 Tulskaya	1.409	1.766	1.725
c) Zapadnyi			
25 Smolenskaya	1.629	2.146	2.026
26 Gomelskaya	2.092	2.787	2.375
27 Bryanskaya	0.862	1.080	0.983
d) BSSR			
28 Vitebskaya	1.336	1.663	1.353
29			
30			
All NCR	27.499	35.153	30.653

Regional population data 1897-1920

	1897	1914	1920
2. SCR			
ZSFSR			
AzSSR	1.789	2.111	2.097
ArSSR	1.017	1.185	1.214
GSSR	1.759	2.140	2.372
All ZSFSR	4.565	5.436	5.683
Turkestan SSR	5.212	6.631	7.202
Uzbek SSR	-	-	-
All SCR	9.777	12.067	12.885
3. SPR			
a) UkSSR	21.386	27.680	26.002
Poltavskaya			
Kharkovskaya			
Chernigovskaya			
Kievskaya			
Volyinskaya			
Podolskaya			
Khersonskaya			
Ekaterinoslavskaya			
Tavricheskaya			
All UkSSR	21.386	27.680	26.002
Kryim ASSR	0.547	0.678	0.762
	21.933	28.358	26.764
b) Sev Kavkaz	4.837	6.812	6.851
Dag.ASSR	0.642	0.368	0.798
	5.479	7.180	7.649
All SPR	27.412	35.538	34.419

Regional population data 1897-1920

	1897	1914	1920
4. CPR			
a) Central Chernozem			
Voronezskaya	2.531	3.382	3.063
Kurskaya	2.371	3.031	2.712
Orlovskaya	1.412	1.803	1.515
Tambovskaya	2.684	3.328	3.395
all Central Chernozem	8.998	11.544	10.013
b) Volga			
Astrakhanskaya	0.346	0.425	0.387
Saratovskaya	2.317	2.938	3.063
Samarskaya	2.115	2.684	2.820
Penzenskaya	1.470	1.783	1.745
Simbirskaya	1.315	1.648	1.657
Kazanskaya			
Vyatskaya	1.838	2.299	2.052
Votskaya	1.431	1.895	2.009
Tsaritsynskaya	1.111	1.520	1.201
Markstadt	0.345	0.437	0.454
Kalmyk ASSR	0.138	0.156	0.126
Bashkir ASSR	0.927	1.214	1.268
Chuvash ASSR	0.616	0.745	0.758
Tatar ASSR	2.413	3.043	2.852
Marii ASSR	0.633	0.766	0.686
all b)	17.293	21.878	21.378
All CPR	26.291	33.422	32.063

Regional population data 1897-1920

	1897	1914	1920
5. EPR			
a) Urals			
Permskaya	1.538	1.891	1.833
Ekaterinsburgskaya	1.571	1.956	1.949
Chelyabinskaya	0.918	1.170	1.314
all a)	4.027	5.017	5.096
b) Siberia			
Tobolskaya			
Tomskaya	0.484	0.877	1.086
Eniseiskaya	0.570	0.933	1.193
Irkutskaya	0.616	0.822	0.922
Altai A.O.	0.718	0.270	1.634
Kamchatkskaya	0.033	0.037	0.042
Novonikolaiskaya	0.458	0.964	1.346
Tyumenskaya	0.805	1.026	1.177
Yakut A.O.	0.270	0.311	0.301
Omskaya	0.665	1.382	1.557
all b)	4.619	7.624	9.258
c) Dalny Vost Krai			
Amurskaya	0.120	0.229	0.338
Zabaikalskaya	0.570	0.749	0.773
Primorskaya	0.172	0.538	0.648
Sakhalin O.	0.038	0.051	0.053
all c)	0.900	1.568	1.812
d) Kirgiz SSR			
Akmolinskaya	0.582	1.057	1.256
Bukyuyevskaya	0.231	0.262	0.234
Mongishlanskaya	0.069	0.080	0.088
Orenburgskaya	1.070	1.479	1.626
Semipalutinskaya	0.757	0.945	1.225
Uralskaya	0.550	0.651	0.629
all d)	3.258	4.473	5.059
All EPR	12.804	18.682	21.226
ALL USSR	104.059	135.599	131.627

Source: from Trudy TsSU, Tom.VIII, vyp.1, M.1921, pp.2-7.

	All Population			Urban Population			Rural Population		
	1897	1916	1920	1897	1916	1920	1897	1916	1920
1. NCR									
a) Severnyir	1.688	2.066	2.018	0.095	0.249	0.143	0.593	1.797	1.875
Proizernyir	4.966	6.775	4.844	1.605	3.006	1.023	3.360	3.769	3.821
	6.654	8.821	6.862	1.700	3.255	1.166	4.953	5.566	5.696
b) Tsent Promr	9.307	12.155	10.285	1.816	3.326	1.830	7.491	8.829	8.455
c) Belorusska r	5.869	7.187	6.781	0.587	1.229	0.715	5.282	2.592	6.066
All NCR	21.830	28.157	23.928	3.103	7.810	3.711	17.726	20.347	20.217
2. SCR									
3. SPR									
a) Ukraine									
Yug Zapadnyi r	15.537	19.076	17.108	1.651	3,172	1.996	13.996	15.904	15.112
Malorossisk r									
Novorossisk r	8.859	13.261	12.024	1.638	3.282	2.150	7.221	9.979	9.874
	24.396	32.337	29.132	3.289	6.454	4.146	21.106	25.883	24.986
b) Sev Kavkaz	3.784	5.730	7.395	0.444	0.884	0.715	3.340	4.846	4.681
All USPR	28.180	38.067	36.527	3.733	7.338	4.861	24.646	30.729	29.667
4. CPR									
a) Tsent.Zemled r	12.842	15.916	15.301	1.203	1.823	0.966	11.638	14.093	14.334
b) Volga									
N. Volzhsk r	3.755	4.839	4.718	0.291	0.723	0.471	3.464	4.116	4.247
Sred Volzhsk r	11.356	14.524	14.196	0.993	1.876	1.113	10.363	12.648	13.083
	15.111	19.363	18.914	1.284	2.599	1.584	13.827	16.764	17.330
4. All CPR	27.953	35.279	34.215	2.487	4.422	2.550	25.465	30.857	31.664
5. EPR									
a) Priuralskr R	6.025	7.492	6.968	0.275	0.476	0.456	5.750	7.016	6.512
b) Sibir	4.818	8.504	9.155	0.351	0.819	0.606	4.466	7.685	8.549
c) Stepnoi krai.	4.066	6.763	6.805	0.357	0.744	0.698	3.709	6.019	6.108
5. All EPR	14.909	22.759	22.928	0.983	2.039	1.760	13.925	20.720	21.169
All USSR (-SCR)	92.871	124.262	115.598	11.308	21.609	12.882	81.563	102.654	102.716

The population of the USSR in 1920 and 1923

	1920 August 28			1923 March 15		
	All	Urban	Rural	All	Urban	Rural
1. NCR						
a) Arkhangel	0.364	0.064	0.300	0.394	0.069	0.325
Zgirovsk (komi)	0.184	0.007	0.177	0.211	0.009	0.202
Sev Dvin	0.607	0.029	0.579	0.658	0.033	0.625
Vologda	0.940	0.076	0.864	0.977	0.085	0.893
a) Severnyi	2.095	0.176	1.920	2.240	0.196	2.045
b) Karelia	0.206	0.039	0.167	0.212	0.045	0.167
Leningrad	1.752	0.910	0.842	2.107	1.236	0.869
Cherepovelsk	0.633	0.042	0.591	0.658	0.047	0.611
Novgorod	0.910	0.107	0.803	0.937	0.112	0.824
Pskov	1.618	0.139	1.479	1.311	0.114	1.197
b) Priozernyi	5.119	1.237	3.882	5.225	1.554	3.668
c) Vitebsk				1.413	0.221	1.192
Belorussia SSR	3.899	0.442	3.457	1.531	0.275	1.256
Gomelsk	1.214	0.236	0.978	2.228	0.428	1.800
c) Belorussia	5.113	0.678	4.435	5.172	0.924	4.248
d) Kostrom	0.731	0.087	0.644	0.777	0.100	0.678
Ivan Voznes	0.794	0.179	0.615	0.869	0.228	0.639
Yarosla	1.233	0.194	1.039	1.313	0.224	1.089
Tver	2.021	0.198	1.823	2.073	0.228	1.845
Nizhegorod	2.310	0.295	2.015	2.501	0.358	2.143
Vladimir	1.194	0.171	1.023	1.319	0.201	1.119
Moskov	2.999	1.387	1.613	3.654	2.004	1.650
Smolensk	1.941	0.172	1.769	2.245	0.226	2.020
Kaluzh	1.028	0.087	0.941	1.071	0.096	0.975
Bryansk	1.091	0.145	0.945	1.127	0.132	0.995
d) Mosk Prom	15.342	2.915	12.427	16.949	3.798	13.153
1. All NCR	27.669	5.006	22.664	29.586	6.472	23.114
2. SCR						
a) ZSFSR				5.635	1.088	4.547
b) Turkestan	7.202	1.071	6.130	7.202	(1.071)	6.130
2. All SCR						
3. SPR						
a) Ukr. SSR	25.125	3.899	21.226	26.024	4.772	21.252
Krym	0.722	0.333	0.388			
a) All Ukr.	25.847	4.232	21.614	26.024	4.772	21.252
b) N. Caucasus						
22 divisions	(8.066)	(1.389)	(6.677)		1.329	
9 divisions				7.665		6.337
7 divisions	7.649	1.334	6.315			
3. All SPR	33.496	5.566	27.929	33.689	6.101	27.589

The population of the USSR in 1920 and 1923

	1920 All	1920 Urban	1920 Rural	1923 All	1923 Urban	1923 Rural
4. CPR						
a) Ryazern G	2.390	0.122	2.268	2.483	0.177	2.306
Tulak G	1.628	0.183	1.445	1.666	0.180	1.487
Tambov	2.597	0.280	2.316	2.691	0.268	2.423
Orlov	1.516	0.144	1.372	1.593	0.181	1.412
Kursk	2.711	0.271	2.439	2.821	0.290	2.531
Voronezh	3.189	0.321	2.868	3.308	0.289	3.019
a) All Tsent Zem	14.031	1.321	12.708	14.562	1.385	13.178
b) Samov	2.823	0.337	2.486	2.573	6.288	2.286
Nem Komman	0.661	0.072	0.588	0.607	0.066	0.541
Tsaretsyn	1.172	0.286	0.986	1.236	0.213	1.022
Astrakhan	0.378	0.140	0.238	0.393	0.069	0.325
Kalmyk A.O.	0.136	-	0.136	0.126	0.001	0.125
b) All N. Volzhski	5.170	0.835	4.434	4.935	0.637	4.299
c) Penza	2.034	0.196	1.838	2.088	0.196	1.892
Simbirsk	1.470	0.195	1.275	1.492	0.175	1.316
Saratov	2.868	0.450	2.419	2.744	0.420	2.324
c) All Sred. Volzh.	6.372	0.841	5.532	6.324	0.791	5.532
d) Vyatsk	2.077	0.118	1.959	2.217	0.130	2.087
Votsk	0.685	0.054	0.631	0.710	0.062	0.647
Tatar	2.877	0.251	2.626	2.780	0.254	2.523
Marii	0.402	0.013	0.390	0.328	0.014	0.315
Chuvask	0.817	0.019	0.797	0.749	0.020	0.729
d) All Volzh. Kom	6.858	0.455	6.402	6.784	0.480	6.301
e) Bashkir SSR	3.007	0.210	2.797	2.913	0.192	2.722
4. All CPR	35.438	3.662	31.873	35.518	3.485	32.032

The population of the USSR in 1920 and 1923

	1920 All	1920 Urban	1920 Rural	1923 All	1923 Urban	1923 Rural
5. EPR						
a) Perm				1.800	0.289	1.512
Ekaterenberg				2.008	0.513	1.495
				1.202	0.094	1.108
Chelyebirsk				1.433	0.251	1.181
a) All Urals	6.427	1.218	5.209	6.443	1.147	5.296
b) Omsk.	1.585	0.183	1.402	1.747	0.189	1.558
Novonik	1.306	0.128	1.178	1.331	0.126	1.205
Altai	1.536	0.127	1.410	1.655	0.143	1.511
Tomsk	1.104	0.182	0.922	1.112	0.168	0.943
Ebisi	1.214	0.131	1.083	1.222	0.123	1.099
Irkulk	0.617	0.146	0.471	0.771	0.162	0.609
Bur Mong	0.451	0.033	0.418	0.118	-	0.118
Oirat	0.083	-	0.083	0.079	-	0.076
Yak	0.286	0.008	0.279	0.267	0.011	0.255
Kamchat				(0.042)	(0.004)	(0.038)
b) All Siberia	8.182	0.938	7.246	8.300	0.922	7.378
c) Orenburg	0.768	0.144	0.624	0.644	0.132	0.512
Aktyab	0.541	0.024	0.516	0.588	0.031	0.557
Kuston	0.422	0.020	0.402	0.437	0.021	0.416
Uralsk	0.502	0.051	0.451	0.558	0.052	0.507
	0.240	0.004	0.236	0.240	0.007	0.232
Akmolensk	1.176	0.055	1.122	1.298	0.065	1.233
	1.044	0.101	0.943	1.239	0.122	1.117
Sgir Dar.	0.920	0.083	0.837			
Adaevzh	0.101	0.001	0.100	0.101	0.001	0.100
	0.743	0.062	0.681			
	0.170	0.017	0.153			
	5.796			5.105		
	4.693	0.399	4.294	5.004	0.430	4.574
5. All EPR	19.302	2.555	16.749	19.747	2.499	17.248
All USSR	131.627	19.389	112.238	133.947	21.495	112.452
All Comparable	115.905	16.789	99.215	118.54	18.557	99.983

Sources: 1920 Trudy TsSU, Tom VIII, vyp 7, M.1926, pp. 2-7
Trudy TsSU, Tom VIII, vyp 1, M.1921, pp. 2-4

1923 Trudy TsSU, Tom XVIII, M.1924, pp. 2-4

Note: 1920 figures refer to census of August 28, 1920
1923 figures refer to time of urban census March 15, 1923.

Population in 1923/24 Grain Forage Balances

	All	Non-agr.	Agr.	Non agr. / all
1. NCR	31.385	7.564	23.821	24.1%
2. SCR				
Armenia	0.911	0.144	0.767	
Georgia	2.462	0.502	1.960	
Azerbaijan	2.053	0.544	1.509	
	5.426	1.196	4.236	
Turkestan	5.184	0.709	4.475	
all SCR	10.610	1.899	8.711	17.9%
3. SPR				
Ukraine	27.605	5.789	21.816	21.0%
Nort lau	7.667	1.330	6.337	17.3%
all SPR	35.272	7.119	28.153	20.2%
4. CPR	42.668	5.312	37.356	17.4%
5. EPR				
Siberia	8.486	0.997	7.489	
Far East	1.531	0.437	1.094	
	10.017	1.434	8.583	
Kirgiz	4.179	0.403	3.776	
all EPR	14.196	1.837	12.359	12.9%
All USSR	134.131	23.731	110.400	17.7%
N & SCR	41.995	9.463	32.532	22.5%
S,C & EPR	92.136	14.268	77.868	15.5%

Source Trudy TsSU, Tom XXIX, M.1926 p.126

The Regional distribution of the population in mlns. from Trudy TsSU Tom VIII, vyp 7, M.1926, pp. 2-7.

	All Population		Urban		Rural	
	1920	1925	1920	1925	1920	1925
1. NCR						
a) Sev. & Sev. Zap. R						
Arkhangelskaya	0.364	0.425	0.064	0.072	0.300	0.353
Murmanskaya	0.018	0.018	0.007	0.007	0.011	0.011
Olonetskaya						
Komi A.O.	0.185	0.211	0.007	0.009	0.177	0.202
Sev. Dvinsky	0.607	0.682	0.029	0.033	0.579	0.649
Vologodskaya	0.940	1.046	0.076	0.086	0.864	0.960
Cherepovetskaya	0.633	0.707	0.042	0.048	0.591	0.659
Karelia ASSR	0.206	0.242	0.039	0.047	0.167	0.195
Leningrad (town)	0.722	1.276	0.722	1.276	-	-
Leningradskaya	1.030	1.152	0.104	0.233	0.842	0.920
Novgorodskaya	0.910	0.989	0.107	0.115	0.803	0.874
Pskov	1.618	1.776	0.139	0.153	1.479	1.624
a) All Sev. & Sev Zap.	7.233	8.524	1.336	2.079	5.813	6.447
b) Tsent Prom.						
Vladimirskaya	1.194	1.444	0.171	0.220	1.023	1.224
Moscow (town)	1.028	1.811	1.028	1.811	-	-
Moskovskaya	1.971	2.329	0.358	0.473	1.613	1.856
Ivan. Voznesenskaya	0.794	0.912	0.179	0.253	0.615	0.659
Nizhegorodskaya	2.310	2.625	0.295	0.381	2.015	2.244
Kostromskaya	0.731	0.833	0.087	0.103	0.644	0.730
Tverskaya	2.021	2.181	0.198	0.237	1.823	1.945
Yaroslovskaya	1.233	1.351	0.194	0.255	1.039	1.096
Kaluzhskaya	1.028	1.110	0.087	0.098	0.941	1.012
Ryazanskaya	2.390	2.643	0.111	0.192	2.268	2.452
Tulskaya	1.628	1.743	0.183	0.181	1.445	1.563
b) All Tsent Prom.	16.328	18.982	2.902	4.204	13.426	14.781
c) Zapadnyi						
Smolenskayii	1.941	2.281	0.172	0.197	1.769	2.084
Gemelskaya	1.214	1.356	0.236	0.281	0.978	1.074
Bryanskaya	1.091	1.286	0.145	0.165	0.945	1.121
c) All Zapadnyi	4.246	4.923	0.553	0.643	3.692	4.279
d) BSSR	3.899	4.205	0.442	0.679	3.457	3.526
1. All NCR	31.706	36.634	5.233	7.605	26.388	29.033
2. SCR						
a) ZSFSR	5.181	5.421	1.128	1.151	4.053	4.270
b) Central Asia						
Turkestan SSR	0.915	0.915	0.109	0.109	0.806	0.806
Uzbek SSR	4.804	4.804	0.741	0.741	4.063	4.063
	5.719	5.719	0.850	0.850	4.869	4.869
2. All SCR	10.900	11.140	1.978	2.001	8.922	9.139

The Regional distribution of the population in mlns. from Trudy TsSU Tom VIII, vyp 7, M.1926, pp. 2-7.

	All Population		Urban		Rural	
	1920	1925	1920	1925	1920	1925
3. SPR						
a) UkSSR	25.125	27.964	3.899	3.799	21.726	24.165
Krym ASSR	0.722	0.579	0.333	0.256	0.388	0.324
	25.847	28.543	4.232	4.055	21.612	24.489
b) Sev. Kavkoz	8.066	8.395	1.389	1.506	6.677	6.889
3. All SPR	33.913	36.938	5.621	5.561	28.289	31.378
4. CPR						
a) Central Chernozem						
Voronezh	3.189	3.201	0.321	0.299	2.868	2.902
Kursk	2.711	3.018	0.271	0.298	2.439	2.720
Orlov	1.516	1.723	0.144	0.190	1.372	1.534
Tambov	2.597	2.797	0.280	0.279	2.316	2.518
a) All Cent. Chernoz.	10.013	10.739	1.016	1.066	8.995	9.674
b) Volga						
Astrakhan	0.378	0.412	0.140	0.158	0.238	0.254
Saratov	2.868	2.850	0.450	0.430	2.419	2.420
Samara	2.823	2.212	0.337	0.294	2.486	1.917
Panza	2.034	2.147	0.196	0.200	1.838	1.947
Simbirsk	1.470	1.605	0.195	0.181	1.275	1.474
Vyatka	2.077	2.290	0.118	0.132	1.959	2.157
Stalingrad	1.172	1.327	0.286	0.223	0.986	1.100
Kalmyk ASSR	0.136	0.164	-	-	0.136	0.164
Bashkir ASSR	3.007	2.483	0.210	0.192	2.797	2.291
Chuvask ASSR	0.817	0.783	0.019	0.021	0.797	0.762
Tatar	2.877	2.925	0.251	0.266	2.626	2.659
Marii	0.402	0.460	0.013	0.018	0.390	0.442
Nem. Povolzh ASSR	0.661	0.503	0.072	0.067	0.588	0.437
Votskaya AO	0.685	0.748	0.054	0.064	0.631	0.684
b) All Volga	21.407	20.904	2.341	2.435	19.166	18.469
4. All CPR	31.420	31.643	3.357	3.501	28.161	28.143

The Regional distribution of the population in mlns., from Trudy TsSU Tom VIII, vyp 7, M.1926, pp. 2-7.

	All Population		Urban		Rural		% Urban	
	1920	1925	1920	1925	1920	1925	1920	1925
5. EPR								
a) Urals	6.477	6.264	1.218	1.185	5.209	5.078		
b) Siberia								
Tomsk	1.104	1.235	0.182	0.172	0.922	1.063		
Enesii	1.214	1.316	0.131	0.131	1.083	1.185		
Irkutsk	0.617	0.675	0.146	0.142	0.471	0.533		
Bur. Mong.	0.451	0.451	0.033	0.033	0.418	0.418		
Oiratskaya A.O.	0.083	0.087	-	-	0.083	0.087		
Altai	1.536	1.464	0.127	0.137	1.410	1.527		
Kamshutka	0.036	0.036	0.001	0.001	0.035	0.035		
Novo Nikol.	1.306	1.376	0.128	0.148	1.178	1.226		
Yakut	0.286	0.285	0.008	0.011	0.279	0.275		
Omsk	1.585	1.696	0.183	0.199	1.402	1.497		
b) All Siberia	8.218	8.819	0.939	0.974	7.281	7.846		
c) Dalnyi Vost Krai								
Amursk	0.394.	0.406	0.099	0.102	0.259	0.304		
Zubaikal	0.540	0.556	0.122	0.126	0.418	0.430		
Primorsk.	0.635	0.654	0.207	0.214	0.428	0.441		
Sakhalin	0.015	0.015	-	-	0.015	0.015		
c) All Dalnyi Vost Krai	1.584	1.631	0.428	0.460	1.120	1.190		
d) Kazak ASSR								
Kazak ASSR	6.628	5.971	0.562	0.577	6.066	5.394		
Kirgiz A.O.	0.832	0.832	0.067	0.067	0.765	0.765		
d) All Kazak	7.460	6.803	0.629	0.644	6.831	6.159		
5. All EPR	23.689	23.517	3.214	3.253	20.441	20.273	13.56	13.88
All USSR	131.610	139.872	19.389	21.720	112.201	117.966	14.73	15.53
All CR	42.606	47.774	7.212	9.606	35.310	38.172	16.92	20.11
All PR	89.021	92.095	12.178	12.114	76.891	79.794	13.68	13.15

Regional Population data TsSU calculations before 1926 census and 1926 census results. Data for European part of USSR only in millions.

	TsSU calculation for 1.1.1926			TsSU calculation for 1.1.1927			Census results 17.12.26		
	Urban	Rural	All	Urban	Rural	All	Urban	Rural	All
1. NCR									
a) Kraine Sever	0.141	0.775	0.916	0.145	0.790	0.935	0.172	0.743	0.915
Severnyi	0.122	1.644	1.766	0.126	1.676	1.802	0.130	1.602	1.732
Sev. Zapadnyi	1.951	4.141	6.092	2.019	4.218	6.237	2.144	4.132	6.276
Zapadnyi	0.521	3.852	4.373	0.525	3.907	4.432	0.492	3.786	4.278
a) All Sever	2.735	10.412	13.147	2.815	10.591	13.406	2.938	10.263	13.201
b) Mosk. Prom	4.057	10.968	15.025	4.199	11.188	15.387	4.472	10.841	15.313
Ryaz & Tula	0.375	3.971	4.296	0.388	3.978	4.366	0.405	3.516	3.912
b) All Mosk.	4.432	14.889	19.321	4.587	15.166	19.753	4.877	14.357	19.225
c) BSSR	0.787	4.171	4.958	0.814	4.250	5.064	0.800	4.125	4.925
1. All NCR	7.954	29.472	37.426	8.216	30.007	38.223	8.615	28.745	37.351
2. SCR									
a) ZSFSR	1.262	4.411	5.673	1.306	4.495	5.801	1.368	4.443	5.811
b) Cent. Asia	1.003	4.368	5.371	1.038	4.448	5.486	1.270	5.153	6.423
2. All SCR	2.265	8.779	10.044	2.344	8.943	11.287	2.638	9.596	12.234
3. SPR									
a) UkSSR	5.206	23.272	28.478	5.414	23.922	29.336	5.267	23.622	28.889
Krim ASSR	0.274	0.351	0.675	0.283	0.358	0.641	0.319	0.381	0.700
a) All UkSSR	5.480	23.621	29.103	5.697	24.250	29.977	5.586	24.003	29.589
b) Sever Kavkaz	1.470	6.239	7.709	1.522	6.357	7.879	1.635	6.663	8.298
Dag ASSR	0.076	0.744	0.820	0.079	0.758	0.837	0.083	0.704	0.787
b) All Sev. Kav.	1.546	6.983	8.529	1.601	7.115	8.716	1.718	7.367	9.085
3. All SPR	7.026	30.606	37.632	7.298	31.395	38.693	7.304	31.370	38.673
4. CPR									
a) Tsent. Zem	1.291	12.100	13.391	1.327	12.136	13.463	1.212	11.802	13.014
b) Nizh. Volzh.	0.160	0.396	0.556	0.166	0.402	0.568	0.203	0.448	0.651
c) Volzhsk Kor.	0.529	6.897	7.426	0.548	7.029	7.577	0.556	6.390	6.946
Bashkir Oren.	0.353	2.861	3.214	0.365	2.942	3.307	0.379	3.013	3.392
c) All Vol.	2.236	17.527	19.763	2.315	17.595	20.210	2.384	17.265	19.649
4. All CPR	3.527	29.627	33.154	3.642	30.031	33.673	3.596	29.067	32.663
5. EPR									
a) Uralskaya	1.256	5.199	6.455	1.299	5.268	6.567	1.402	5.390	6.792
b) Sibir Krai	0.941	7.295	8.236	0.976	7.435	8.411	1.130	7.563	8.693
Bur. Mong ASSR	0.036	0.445	0.481	0.038	0.453	0.491	0.040	0.447	0.487
Yakut ASSR	0.011	0.277	0.288	0.011	0.283	0.294	0.023	0.282	0.305
Dalne Vost.Krai	0.455	1.267	1.722	0.472	1.290	1.762	0.450	1.393	1.843
b) All Sibir Krai	1.443	9.284	10.727	1.497	9.461	10.958	1.643	9.685	11.328
c) Kazak ASSR	0.471	4.976	5.447	0.488	5.072	5.560	0.523	5.744	6.267
5. All EPR	3.170	19.459	22.629	3.284	19.801	23.085	3.568	20.819	24.387
All USSR	23.942	117.943	141.885	24.784	120.177	144.961	25.721	119.597	145.308

Source: Vsesoyuznaya Perepis naseleniya 17 Dekabri 1926g, Predvaritelniye itogyi, vyp 1, M.1927, pp. 37-40, and vyp 3, M.1927, pp. 16-17.

Regional population data 1925/26-1927/28 in millions as used in the grain forage balances constructed in 1927

	1925/26 Urban	Rural	All	1926/27 Urban	Rural	All	1927/28 Urban	Rural	All
1. NCR									
Consuming regions	7.364	24.514	31.514	7.889	24.619	37.508	8.448	24.725	33.173
BSSR	0.777	4.046	4.817	0.799	4.126	4.925	0.821	4.214	5.035
	8.146	28.554	36.700	8.688	28.765	37.433	4.269	28.939	38.208
2. SCR									
ZSFSR	1.308	4.363	5.671	1.368	4.443	5.811	1.430	4.575	6.005
Uzb & Turk SSR	1.141	4.810	5.951	1.197	4.892	6.089	1.255	4.975	6.230
	2.449	9.173	11.622	2.565	9.335	11.900	2.685	9.550	12.235
3. SPR									
UkSSR	4.933	23.409	28.342	5.266	23.621	28.887	5.621	23.833	29.456
Krim ASSR	0.299	0.374	0.673	0.319	0.381	0.700	0.310	0.389	0.699
Sev Kavkaz & Dag ASSR	1.627	7.188	8.815	1.717	7.397	9.114	1.812	7.613	9.425
	6.859	30.971	37.830	7.302	31.344	38.701	7.743	31.835	39.578
4. CPR									
Ts. Chernozem	0.983	9.627	10.610	1.007	9.798	10.805	1.032	9.971	11.003
Nizhne Volzhski	0.932	4.453	5.385	0.970	4.549	5.519	1.010	4.648	5.658
Sredne Volzhski	1.030	8.139	9.169	1.062	8.329	9.391	1.093	8.524	9.617
Volszhsko-Kumskii	0.540	6.298	6.838	0.555	6.389	6.944	0.571	6.482	7.053
	3.485	28.517	37.002	3.594	29.065	32.659	3.706	29.625	33.331
5. EPR									
Uralskaya Ob.	1.321	5.252	6.577	1.403	5.389	6.792	1.490	5.523	7.013
Sibirskii Krai	1.078	7.366	8.444	1.130	7.563	8.693	1.185	7.764	8.949
D.V.K. Bur.Morg & Yak.	0.499	2.075	2.574	0.513	2.121	2.634	0.528	2.168	2.696
Kaz & Kirg ASSR	0.630	6.794	7.424	0.661	6.915	7.576	0.694	7.037	7.731
	3.528	21.491	25.019	3.707	21.988	25.695	3.897	22.492	26.389
All USSR	24.467	118.706	143.173	25.856	120.532	146.388	27.330	122.393	149.723

Source Predpolozhitelnyi khleb furazhnyi balans pa 1927/28 sel. khoz god s prilozheniem nekotovyikh oznovnyikh pokozatelyei sostoyaniya sel.khoz. za 1925-1927 g., M.1927, pp. 28-31

Regional Distribution of population in administrative Regions of 1930
from Narodnoe Khozyaistvo SSSR, M.1932, pp. 402-403

Region	1/1/1927 All	1/1/1927 Rural	1/1/1927 Urban	1/VII/1931 All	1/VII/1931 Rural	1/VII/1931 Urban
1. NCR						
a) Northern						
Severnyi Krai	2.376	2.141	0.234	2.703	2.358	0.345
Karelia ASSR	0.270	0.209	0.061	0.291	0.209	0.082
Leningrad Ob.	5.500	3.339	2.162	6.291	3.239	3.052
a)	8.146	5.689	2.457	9.285	5.806	3.479
b) C. Ind. R.						
Moscow Ob.	10.247	6.855	3.392	11.740	6.957	4.783
Ivanovsk Ob.	4.354	3.389	0.964	4.417	3.154	1.263
(Nizhegorod Krai)	(7.413)	(6.657)	(0.755)	(7.711)	(6.616)	(1.096)
30%	2.224	1.997	0.227	2.313	1.985	0.329
	16.825	12.241	4.583	18.470	12.096	6.375
	(22.015)	(16.901)	(5.111)	(23.868)	(16.727)	(7.142)
c) Zapadnaya Ob.	6.543	5.856	0.687	6.659	5.918	0.742
d) BSSR	4.983	4.135	0.848	5.290	4.454	0.836
1. All NCR	36.497	27.921	8.575	39.704	28.274	11.432
	(41.687)	(32.582)	(9.103)	(45.103)	(32.905)	(12.199)
2. SCR						
a) ZSFSR	5.862	4.451	1.411	6.517	4.759	1.758
b) Central Asian Reps						
UzSSR	4.239	3.244	0.995	4.754	3.605	1.149
Turk SSR	1.001	0.864	0.137	1.156	0.956	0.200
TadzhSSR	1.034	0.927	0.107	1.188	1.083	0.105
Kirg. ASSR	0.996	0.873	0.123	1.116	0.971	0.145
Karakalp. ASSR	0.305	0.287	0.017	0.346	0.322	0.024
b)	7.575	6.195	1.379	8.560	6.937	1.623
2. All SCR	13.437	10.646	2.790	15.077	11.696	3.381
3. SPR						
a) Ukraine						
UkSSR	29.018	23.645	5.374	31.608	25.239	6.369
Crimea ASSR	0.714	0.384	0.331	0.794	0.428	0.366
a)	29.732	24.029	5.705	32.402	25.667	6.735
b) North Caucasus						
Sev Kavkaz Krai	8.349	6.695	1.655	9.378	7.316	2.061
Dag ASSR	0.788	0.703	0.085	0.902	0.769	0.133
b)	9.137	7.398	1.740	10.280	8.085	2.194
3. All SPR	38.869	31.427	7.445	42.682	33.752	8.929

Regional Distribution of population in administrative Regions of 1930

	1/1/1927			1/VII/1931		
	All	Rural	Urban	All	Rural	Urban
4. CPR						
a) C.Ch. Zem. Ob.	11.125	10.079	1.046	11.792	10.697	1.095
b) Volga						
N. Volga Krai	5.355	4.376	0.979	5.816	4.564	1.252
Sred. Volga Krai	6.926	6.084	0.843	7.584	6.681	0.903
Bashkir ASSR	2.666	2.432	0.234	2.975	2.711	0.264
Tatar ASSR	2.593	2.312	0.281	2.706	2.388	0.318
Nizhegorod Krai	(7.413)	(6.657)	(0.755)	(7.711)	(6.616)	(1.096)
70%	5.189	4.660	0.529	5.398	4.631	0.767
b)	22.729	19.864	2.866	24.479	20.975	3.505
	(17.540	(15.204)	(2.337)	(19.081)	(16.344)	(2.738)
4. All CPR	33.854	29.943	3.912	36.271	31.672	4.600
	(28.665)	(25.283)	(3.383)	(30.873)	(27.041)	(3.833)
5. EPR						
a) Urals	6.786	5.379	1.407	7.845	5.728	2.117
b) Siberia						
Zap. Sib Krai	7.195	6.362	0.833	8.384	7.199	1.185
Vost. Sib Krai	2.603	2.146	0.457	2.965	2.428	0.537
Yakut ASSR	0.289	0.274	0.015	0.313	0.291	0.022
Dal Vost Krai	1.295	0.933	0.362	1.645	1.135	0.509
b)	11.382	9.715	1.667	13.307	11.053	2.253
c) Kaz. ASSR	6.170	5.651	0.519	7.261	6.349	0.911
5. All EPR	24.338	20.745	3.593	28.413	23.130	5.281
USSR	146.994	120.679	26.315	162.143	128.521	33.622

Note: In the bracketed totals Nizhegorod Krai has been included totally in the Central Industrial Region of the NCR.

Rural population in millions from Trudy TsSU Tom VIII, vyp 4, M.1923 pp. 398'401 and from Trudy TsSU, Tom VIII, vyp 5, M.1924, pp. 143-145

	1920	1921	1922	1923	1923 adj.
1. NCR					
Severnyi Raim	1.921	1.921	1.992	2.148	2.148
Priozernyi Raim	3.552	3.552	3.719	3.937	3.937
Moskovskii Prom Raim	12.065	12.065	12.555	11.772	14.083
Belorusskii Raim	4.391	4.391	4.573	4.881	4.881
1. All NCR	21.929	21.929	22.839	22.737	25.049
2. SCR					
3. SPR					
UkSSR	21.133	21.133	21.029	23.267	23.575
Krym ASSR				0.308	
Yugo Vostok	5.604	5.604	5.296	6.373	6.784
3. All SPR	26.737	26.737	26.325	29.948	30.359
4. CPR					
Tsent Zemledel R.	13.408	13.408	13.716	14.304	14.304
N. Volzhskii R.	4.162	4.162	3.567	3.969	3.801
Sred. Volzhsk. R.	5. 647	5.647	5.533	5.818	5.818
Volzhski Kamski R.	6.322	6.322	6.153	8.801	6.490
Bashkir SSR	2.943	2.943	2.370	2.176	2.176
4. All CPR	32.482	32.482	31.339		32.589
5. EPR					
Urals RAim	5.086	5.086	4.568	5.216	5.216
Sibir	6.923	6.923	7.004	7.003	6.643
Kirgiz SSR	4.558	4.558	3.658	3.469	3.469
5. All EPR	16.567	16.567	15.230	15.688	15.328
All USSR less SCR and Far East	97.715	97.715	95.733	103.441	103.325

Peasant population and households 1916, 1923-1927 from Osnovniye elementyi sel khoz proizvodstva SSSR, 1916 i 1923-1927gg M.1930, pp 2-5

	Peasant population in mlns.						Peasant households in mlns.					
	1916	1923	1924	1925	1926	1927	1916	1923	1924	1925	1926	1927
1. NCR												
Severnyi R.	2.077	2.129	2.167	2.176	2.195	2.152	0.373	0.422	0.429	0.438	0.441	0.435
Leningrad Korel'	4.003	4.374	4.410	4.480	4.568	4.610	0.680	0.833	0.849	0.866	0.888	0.900
Zapadnyi R.	3.440	3.673	3.824	3.919	4.005	4.041	0.527	0.677	0.707	0.721	0.737	0.749
Tsent Prom R.	14.444	14.933	15.195	15.417	15.714	16.011	2.589	2.814	2.859	2.928	2.986	3.047
BSSR	3.601	4.027	4.014	4.080	4.115	4.200	0.563	0.718	0.737	0.754	0.767	0.775
1. All NCR	27.565	29.138	29.610	30.072	30.897	31.014	4.732	5.464	5.581	5.707	5.819	5.906
2. SCR												
ZSFSR	4.665	4.259	4.259	4.439	4.705	4.813	0.828	0.833	0.833	0.853	0.899	0.907
Uzbch SSR	4.910	3.808	3.982	4.058	4.135	4.177	1.016	0.861	0.877	0.894	0.911	0.921
Turk SSR	0.813	0.874	0.874	0.890	0.907	0.908	0.142	0.167	0.167	0.170	0.173	0.185
2. All SCR	10.388	8.941	9.115	9.387	9.747	9.898	1.986	1.861	1.877	1.917	1.983	2.013
3. SPR												
UkSSR	22.282	23.249	23.237	23.814	24.414	24.876	4.026	4.809	4.899	4.963	5.063	5.111
Kryim ASSR	0.395	0.316	0.325	0.361	0.369	0.398	0.073	0.068	0.069	0.079	0.080	0.087
Sev Kavkoz	6.038	6.023	6.054	6.245	6.417	6.628	1.043	1.175	1.199	1.218	1.272	1.310
Dageston	0.572	0.626	0.609	0.681	0.762	0.753	0.123	0.134	0.145	0.155	0.165	0.173
3. All SPR	29.287	30.214	30.225	31.101	31.962	32.655	5.265	6.186	6.312	6.415	6.580	6.681
4. CPR												
Tsent Chernozem	9.653	9.968	10.269	10.349	10.505	10.776	1.534	1.815	1.866	1.918	1.971	2.013
Nizh Volzhskii	4.756	4.450	4.571	4.467	4.585	4.898	0.799	0.857	0.889	0.886	0.914	0.957
Sred Volzhskii	6.522	5.674	5.759	5.850	6.009	6.223	1.100	1.067	1.103	1.138	1.174	1.199
Tatar Chuvash	3.856	3.266	3.314	3.352	3.376	3.477	0.707	0.632	0.648	0.665	0.687	0.702
Bashkirsk	3.052	2.202	2.365	2.448	2.513	2.598	0.536	0.450	0.456	0.479	0.494	0.507
Vyatskii	3.273	3.216	5.286	3.317	3.402	3.420	0.542	0.580	0.584	0.595	0.608	0.614
4. All CPR	31.112	28.776	29.564	29.783	30.390	31.392	5.218	5.401	5.573	5.681	5.848	5.992
5. EPR												
Uralski	5.517	5.133	5.522	5.734	5.744	5.925	1.096	1.075	1.181	1.204	1.224	1.240
Sibirskii	6.055	6.882	7.142	7.185	7.373	7.644	1.014	1.190	1.258	1.304	1.349	1.393
Bur Mong	0.408	0.368	0.419	0.419	0.444	0.483	0.076	0.090	0.095	0.097	0.101	0.102
Dal Vost	0.983	1.109	1.154	1.212	1.276	1.345	0.167	0.199	0.199	0.203	0.217	0.231
Kazakskii	0.646	5.492	5.687	5.795	5.905	6.085	1.211	1.127	1.168	1.190	1.213	1.212
Kirgiz	0.935	0.804	0.833	0.846	0.862	0.880	0.189	0.175	0.182	0.184	0.188	0.189
5. All EPR	20.544	19.788	20,757	21.191	21.604	22.364	3.753	3.856	4.083	4.182	4.292	4.367
All USSR	119.160	117.114	119.532	121.794	124.592	127.582	21.009	22.825	23.459	23.962	24.579	25.016
All Cons. R.	37.953	38.077	38.725	39.459	40.644	40.912	6.718	7.325	7.458	7.624	7.802	7.919
All Prod. R.	81.207	79.037	80.807	82.335	83.948	86.670	14.236	15.443	15.963	16.278	16.720	17.040

iii) Summary of regional population series

Regional population data from various sources

		NCR	SCR	SPR	CPR	EPR	USSR	USSR -SCR
1	1.1.1897	30.00	9.77		26.18			
	1.1.1914	37.17	13.13		34.34			
2	9.2.1897	27.50	9.78	27.41	26.29	12.80	104.06	
	1.1.1914	35.15	12.07	35.34	33.42	18.68	135.60	
	28.8.1920	30.65	12.89	34.42	32.06	21.23	131.55	
3	9.2.1897	21.83		28.18	27.95	14.91		92.87
	1.1.1911	28.16		38.07	35.28	22.76		124.26
	28.8.1920	23.93		36.53	34.22	22.93		117.60
9	28.8.1920	27.67		33.50	35.44	19.30		115.91
	23.3.1923	29.59	12.84	33.69	35.52	19.75	133.95	118.54
4	1.1.1924	31.39	10.61	35.27	47.67	14.20	134.13	
5	28.8.1920	31.71	10.90	33.91	31.42	23.69	131.63	
	1.1.1925	36.63	11.14	36.94	31.64	23.52	139.87	
6	1.1.1926	37.44	11.65	37.64	33.16	23.44	143.3	
	1.1.1927	38.23	11.89	38.70	33.68	23.89	146.39	
	17.12.1926	37.37	17.65	38.68	32.66	25.39	146.29	
7	1.1.1926	36.70	11.62	37.83	32.00	25.02	143.17	
	1.1.1927	37.43	11.90	38.70	32.66	25.20	146.39	
	1.1.1928	38.21	12.24	39.58	33.33	26.39	149.22	
8	1.1.1927	41.69	13.44	38.87	28.67	24.34	146.99	
	1.11.1931	45.10	15.08	42.68	30.87	28.41	162.14	

Regional level of urbanisation from various sources

		NCR	SCR	SPR	CPR	EPR	USSR
3	9.2.1897	18.80		13.25	8.90	6.59	12.18
	1.1.1916	27.74		19.28	12.53	8.96	17.39
	28.8.1920	15.51		13.31	7.45	7.68	11.14
5	28.8.1920	16.50	18.15	16.57	10.68	13.56	14.73
	1.1.1925	20.76	17.96	15.05	11.06	13.88	15.53
7	1.1.1926	22.20	21.07	18.13	9.42	14.10	17.09
	1.1.1927	23.21	21.55	18.87	11.00	14.43	17.66
	1.1.1928	24.26	21.95	19.56	11.12	14.77	18.25

i_v.) Regional population data, A combined series

	NCR	SCR	SPR	CPR	EPR	USSR
1897						
1914	35.72	10.40	34.86	32.45	21.59	135.02
1916						
1920	31.15	11.11	33.95	31.13	24.54	131.88
21	(31.2)	(11.11)	(34.5)	(31.2)	(24.5)	(132.5)
22	(31.2)	(11.11)	(35.0)	(31.2)	(24.5)	(133.0)
23	(32.5)	(11.2)	(35.6)	(31.2)	(24.5)	(135.0)
24	(33.9)	(11.3)	(36.3)	(31.3)	(24.6)	(137.4)
1925	(35.3)	11.35	(37.0)	(31.5)	(24.7)	139.85
26	36.70	11.62	37.83	32.00	25.2	143.17
27	37.43	11.10	38.70	32.66	25.70	146.39
28	38.71	12.24	39.58	33.33	26.39	149.72
29	(39.0)	(12.61)	(40.4)	(33.9)	(26.92)	(152.83)
1930	(39.8)	(12.98)	(41.0)	(34.0)	(27.15)	(155.23)

Regional rates of urbanisation. A combined series

	NCR	SCR	SPR	CPR	EPR	USSR
1897	18.78		13.24	8.91	6.57	12.18
1914	15.43			8.07		
1916	27.73		19.28	12.53	8.96	17.39
1920	16.50	18.15	16.57	10.68	13.56	14.73
21	(16.5)	(18.1)	(16.0)	(10.6)	(13.6)	(14.7)
22	(17.5)	(18.1)	(15.0)	(10.6)	(13.6)	(14.8)
23	(18.6)	(18.1)	(15.0)	(10.8)	(13.7)	(15.0)
24	(19.7)	(18.0)	(15.0)	(10.9)	(13.8)	(15.2)
1925	20.76	17.96	15.05	11.06	13.88	15.53
26	22.20	21.07	18.13	10.9	14.10	17.09
27	23.21	21.55	18.87	11.00	14.43	17.66
28	24.26	21.95	19.56	11.12	14.77	18.25
29	(25.59)	(22.0)	(20.0)	(11.67)	(16.04)	(18.6)
1930	(26.92	(22.2)	(20.47)	(12.11)	(1732)	(19.0)

10/ Livestock data

a) Pre revolutionary

i) Sources

I.Vilson (compiler) , Obyasneniya k khozyaistvenno-statisticheskomu atlasu Evropyeiskoi Rossii, izd.4, SPb., 1869, pp.345-397.

Sbornik Statistiko-Ekonomicheskikh Svedenii po Sel. Khoz. Rossii i inostrannyikh gosudarstv., SPb.1901-15.

Svod Statisticheskiye Svedenii, vyp.II, SPb.1903, pp.v1-2-10.

F.A.Cherevanin, in Vliyaniye neurozhaev na narodnye khozyaistvo Rossii, chast 1, M.1927, pp. 160.

N.D.Kondratiev (ed.) Selskoye Khozyaistvo Rossii v XX veka, M.1923.

ii) Series of data compiled

Horses held by rural population in mlns.

1. NCR
a. N & NW

	Arkhangel G.	Vologda G.	Olonetsk G.	Petersburg G.	Novgorod G.	Pskov G.	Smolensk G.	Tver G.	All N & NW in mlns.
1842/50	0.035	0.183	0.051	0.107	0.211	0.148	0.476	0.517	1.730
1851/60	0.041	0.213	0.056	0.094	0.233	0.151	0.408	0.446	1.642
1859/64									
1883	0.039	0.227	0.066	0.099	0.222	0.214	0.360	0.345	1.572
1900	0.053	0.245	0.066	0.110	0.256	0.232	0.385	0.359	1.706
1901	0.055	0.261	0.072	0.121	0.262	0.217	0.434	0.342	1.764
1902	0.057	0.265	0.071	0.124	0.260	0.221	0.427	0.383	1.808
1903	0.064	0.259	0.069	0.124	0.268	0.222	0.435	0.372	1.811
1904	0.054	0.273	0.071	0.125	0.294	0.246	0.450	0.391	1.904
1905	0.058	0.281	0.072	0.119	0.268	0.242	0.438	0.387	1.865
1906	0.659	0.284	0.073	0.116	0.293	0.231	0.423	0.396	1.875
1907	0.062	0.286	0.073	0.116	0.291	0.276	0.438	0.392	1.884
1908	0.060	0.292	0.074	0.118	0.296	0.235	0.420	0.382	1.877
1909	0.059	0.291	0.073	0.120	0.291	0.220	0.415	0.374	1.845
1910	0.061	0.298	0.477	0.119	0.286	0.234	0.419	0.378	1.873
1911	0.063	0.298	0.076	0.120	0.288	0.233	0.428	0.366	1.872
1912	0.064	0.306	0.078	0.117	0.274	0.229	0.407	0.353	1.828
1913	0.06	0.312	0.081	0.116	0.289	0.228	0.455	0.370	1.911
1914	0.056	0.298	0.081	0.117	0.296	0.236	0.448	0.383	1.915
1912	0.034	0.264	0.084	0.127	0.267	0.224	0.432	0.347	1.779
1916	0.062	0.297	0.079	0.119	0.296	0.255	0.442	0.361	1.911
1917	0.062	0.302	0.079	0.127	0.303		0.422	0.367	(1.917)

Horses held by rural population in mlns.

1. NCR
b) Cent. Ind R.

	Yaroslavl G.	Mosovskaya G.	Vladimirskaya G.	Kostromskaya G.	Kalyuzhskaya G.	Nizhne Novgorodskaya G.	Tulskaya G.	Ryazanskaya G.	All Cent. Ind. R. in mlns.
1842/50	0.254	0.317	0.279	0.297	0.346	0.286	0.459	0.416	2.654
1851/60	0.248	0.302	0.269	0.289	0.282	0.317	0.386	0.478	2.571
1859/64									
1883	0.151	0.196	0.205	0.255	0.221	0.244	0.376	0.345	1.993
1900	0.155	0.193	0.191	0.243	0.244	0.247	0.357	0.348	1.978
1901	0.169	0.197	0.207	0.255	0.257	0.246	0.330	0.291	1.952
1902	0.155	0.195	0.207	0.244	0.257	0.247	0.348	0.306	1.960
1903	0.151	0.192	0.204	0.229	0.271	0.239	0.351	0.303	1.939
1904	0.175	0.214	0.268	0.254	0.274	0.262	0.411	0.403	2.203
1905	0.173	0.211	0.206	0.259	0.271	0.262	0.393	0.390	2.165
1906	0.178	0.214	0.214	0.262	0.273	0.262	0.356	0.359	2.118
1907	0.173	0.214	0.211	0.247	0.264	0.246	0.344	0.347	2.047
1908	0.178	0.208	0.209	0.247	0.252	0.253	0.353	0.371	2.072
1909	0.177	0.208	0.211	0.249	0.249	0.255	0.362	0.377	2.089
1910	0.167	0.206	0.207	0.258	0.259	0.260	0.370	0.381	2.108
1911	0.170	0.204	0.212	0.255	0.254	0.259	0.376	0.398	2.129
1912	0.165	0.197	0.207	0.268	0.261	0.242	0.369	0.378	2.087
1913	0.161	0.198	0.205	0.264	0.253	0.250	0.38	0.392	2.103
1914	0.163	0.201	0.204	0.265	0.271	0.256	0.383	0.282	2.125
1912	0.152	0.209	0.201	0.254	0.272	0.252	0.401	0.394	2.135
1916	0.158	0.199	0.191	0.246	0.275	0.259	0.395	0.405	2.128
1917	0.164	0.206	0.195	0.249	0.281	0.248	0.409	0.400	2.152

Horses held by rural population in mlns.

1. NCR c) Belorussia						All NCR			
	Vitebskaya G.	Minskaya G.	Mogelevskaya G.	All Belorussia in mlns	All Belorussia in mlns (adjusted)	1. a) N & NW	1. b) Cent. Ind.	1. c) BSSR	1. NCR All Production
1842/50	0.185	0.123	0.354	0.662	0.569	1.730	2.654	0.569	4.953
1851/60	0.158	0.134	0.269	0.561	0.482	1.642	2.571	0.482	4.695
1859/64									
1883	0.226	0.277	0.362	0.865	0.744	1.572	1.993	0.744	4.309
1900	0.276	0.380	0.443	1.099	0.945	1.706	1.978	0.945	4.629
1901	0.284	0.332	0.444	1.060	0.912	1.764	1.952	0.912	4.628
1902	0.279	0.334	0.439	1.052	0.905	1.808	1.960	0.905	4.673
1903	0.281	0.325	0.407	1.013	0.871	1.811	1.939	0.871	4.621
1904	0.291	0.451	0.469	1.212	1.042	1.904	2.203	1.042	5.149
1905	0.256	0.427	0.448	1.131	0.973	1.865	2.165	0.973	5.003
1906	0.249	0.413	0.458	1.121	0.964	1.875	2.118	0.964	4.957
1907	0.257	0.412	0.447	1.116	0.960	1.884	2.047	0.960	4.891
1908	0.253	0.396	0.442	1.090	0.937	1.877	2.072	0.937	4.886
1909	0.254	0.399	0.442	1.097	0.943	1.845	2.089	0.943	4.877
1910	0.259	0.419	0.440	1.119	0.962	1.873	2.108	0.962	4.943
1911	0.254	0.425	0.431	1.113	0.957	1.872	2.129	0.957	4.958
1912	0.256	0.418	0.430	1.104	0.949	1.828	2.087	0.949	4.864
1913	0.273	0.431	0.441	1.145	0.985	1.911	2.103	0.985	4.999
1914	0.278	0.435	0.445	1.158	0.996	1.915	2.125	0.996	5.036
1912	0.172	0.313	0.423	0.908	0.781	1.779	2.135	0.781	4.695
1916	0.182	0.420	0.465	1.067	0.918	1.911	2.128	0.918	4.957
1917	0.132		0.466	(0.986)	(0.848)	(1.917)	2.152	(0.848)	4.917

Horses held by rural population in mlns.

2. SCR
a. ZSFSR

	Baku G.	Batumi G.	Elisavetpol G.	Karso G.	Kutaisii G.	Sukhumi G.	Tiflis G.	Zakatalskii Ok.	Erivan G.	Total ZSFSR in mlns.
1842/50										
1851/60										
1859/64										
1883										
1900										
1901										
1902										
1903										
1904										
1905										
1906										
1907										
1908										
1909	0.068	0.005	0.094	0.028	0.042	0.011	0.062	0.002	0.035	0.348
1910	0.073	0.006	0.089	0.027	0.039	0.011	0.087	0.015	0.034	0.382
1911	0.074	0.040	0.067	0.025	0.040	0.008	0.068	0.013	0.034	0.370
1912	0.063	0.005	0.08	0.033	0.033	0.010	0.057	0.005	0.033	0.319
1913	0.054	0.003	0.105	0.029	0.039	0.003	0.087	0.009	0.033	0.362
1914	0.083	–	0.107	0.017	0.033	0.016	0.080	0.005	0.028	0.369

Horses held by rural population in mlns.

2. SCR b. Central Asia						2. All SCR		
	Zakaspi skaya G.	Sgir Dar G.	Ferganskaya G.	Samarkandskaya G.	Total Cent Asia in mlns.	2. a) ZSFSR	2. b) Cent Asia	2. All SCR
1842/50								
1851/60								
1859/64								
1883								
1900								
1901								
1902								
1903								
1904								
1905								
1906								
1907								
1908								
1909	0.127	0.652	0.490	0.104	1.373	0.348	1.373	1.721
1910	0.124	0.644	0.416	0.095	1.279	0.382	1.279	1.661
1911	0.954	0.672	0.362	0.099	1.228	0.370	1.228	1.598
1912	0.092	0.721	0.32	0.111	1.244	0.319	1.244	1.563
1913	0.076	0.640	0.347	0.112	1.175	0.362	1.175	1.537
1914	0.068	0.617	0.326	0.126	1.137	0.369	1.137	1.506

Horses held by rural population in mlns.

3. SPR
a) Ukraine

	Poltavskaya G.	Kharkovskaya G.	Chernigovskaya G.	Kievskaya G.	Volyinskaya G.	Podolskaya G.	Khersonskaya G.	Ekaterinoslavskaya G.	Tavricheskaya G.	All Ukraine in mlns.	All Ukraine in mlns. (adjusted)
1842/50	0.145	0.208	0.321	0.107	0.253	0.099	0.303	0.092	0.135	1.663	1.621
1851/60	0.175	0.199	0.401	0.103	0.264	0.117	0.097	0.088	0.122	1.566	1.527
1859/64											
1883	0.264	0.290	0.520	0.268	0.497	0.442	0.323	0.337	0.345	3.286	3.204
1900	0.376	0.398	0.564	0.517	0.656	0.527	0.647	0.583	0.469	4.737	4.619
1901	0.376	0.378	0.611	0.419	0.710	0.577	0.616	0.587	0.475	4.692	4.575
1902	0.369	0.402	0.642	0.440	0.690	0.516	0.650	0.579	0.534	4.822	4.701
1903	0.407	0.382	0.617	0.447	0.693	0.523	0.673	0.476	0.414	4.632	4.516
1904	0.429	0.836	0.597	0.528	0.744	0.523	0.751	0.609	0.477	5.494	5.357
1905	0.400	0.429	0.573	0.522	0.681	0.524	0.698	0.606	0.436	4.889	4.767
1906	0.416	0.439	0.578	0.530	0.680	0.528	0.772	0.621	0.477	5.041	4.915
1907	0.436	0.435	0.580	0.532	0.679	0.539	0.730	0.631	0.471	4.833	4.712
1908	0.439	0.414	0.565	0.515	0.690	0.542	0.745	0.657	0.466	5.033	4.907
1909	0.436	0.455	0.564	0.505	0.678	0.520	0.747	0.629	0.449	4.985	4.860
1910	0.457	0.461	0.577	0.520	0.672	0.541	0.730	0.667	0.444	5.069	4.942
1911	0.457	0.488	0.574	0.522	0.709	0.539	0.770	0.690	0.486	5.235	5.104
1912	0.505	0.485	0.568	0.530	0.681	0.547	0.760	0.670	0.498	5.244	5.113
1913	0.481	0.536	0.609	0.566	0.676	0.567	0.764	0.691	0.493	4.383	5.248
1914	0.486	0.562	0.606	0.588	0.698	0.569	0.801	0.706	0.477	5.644	5.503
1912	0.491	0.493	0.458	0.542	0.309	0.526	0.814	0.718	0.523	4.874	4.752
1916	0.575	0.592	0.627	0.629	0.393	0.544	0.929	0.739	0.615	5.643	5.502
1917	0.551	0.609	0.610	0.575	0.249			0.737		(5.29)	(5.16)

Horses held by rural population in mlns.

3. SPR b) North Caucasus								3. All SPR		
	Kuban Ob.	Chernomorskaya G.	Stavropol G.	Tersk G.	Don Ob.	Dagestan Ob.	All N. Caucasus in mlns.	3. a) Ukraine	3. b) N. Caucasus	3. All SPR
1842/50			0.043					1.621		(2.27)
1851/60			0.077					1.527		(2.14)
1859/64										
1883					0.426			3.204		(4.50)
1900					0.654			4.619		(6.48)
1901	0.619	0.007	0.280	0.233	0.666	(0.04)	1.845	4.575	1.845	6.420
1902	0.662	0.007	0.267	0.249	0.704	(0.04)	1.929	4.701	1.929	6.630
1903	0.689	0.008	0.264	0.249	0.700	(0.04)	1.950	4.516	1.950	6.466
1904	0.686	0.007	0.294	0.248	0.802	(0.04)	2.077	5.357	2.077	7.434
1905	0.712	0.007	0.297	0.257	0.752	(0.04)	2.065	4.767	2.065	6.832
1906	0.731	0.080	0.294	0.240	0.828	(0.04)	2.141	4.915	2.141	7.056
1907	0.765	0.080	0.347	0.252	0.660	(0.04)	2.072	4.712	2.072	6.784
1908	0.763	0.007	0.349	0.247	0.664	(0.04)	2.070	4.907	2.070	6.977
1909	0.761	0.009	0.336	0.247	0.808	0.046	q.207	4.860	2.207	7.067
1910	0.813	0.008	0.369	0.270	0.802	0.042	2.304	4.942	2.304	7.246
1911	0.867	0.008	0.394	0.264	0.822	0.040	2.395	5.104	2.395	7.499
1912	0.889	0.010	0.391	0.244	0.832	0.042	2.408	5.113	2.408	7.521
1913	0.957	0.011	0.394	0.342	0.848	0.045	2.557	5.248	2.557	7.805
1914	0.951	0.011	0.426	0.289	0.894	0.047	2.618	5.503	2.618	8.121
1912	0.818	0.010	0.431	01175	1.003	(0.04)	2.477	4.752	2.477	7.229
1916	0.984	0.012	0.468	0.294	1.104	(0.04)	2.902	5.502	2.902	8.404
1917					1.088		(2.86)			(8.02)

Horses held by rural population in mlns.

4. CPR

a) Central Chernozem

	Voronezh G.	Kursk G.	Orlov G.	Tambov G.	All Cent. Chernozem in mlns.
1842/50	0.522	0.716	0.536	0.679	2.453
1851/60	0.494	0.630	0.568	0.662	2.354
1859/64					
1883	0.529	0.605	0.459	0.646	2.239
1900	0.566	0.587	0.450	0.640	2.243
1901	0.541	0.557	0.416	0.578	2.092
1902	0.537	0.572	0.421	0.629	2.159
1903	0.558	0.592	0.445	0.654	2.249
1904	0.831	0.645	0.600	0.722	2.798
1905	0.670	0.617	0.483	0.733	2.503
1906	0.595	0.605	0.474	0.686	2.360
1907	0.551	0.621	0.444	0.607	2.223
1908	0.554	0.582	0.442	0.630	2.208
1909	0.544	0.559	0.439	0.624	2.166
1910	0.568	0.572	0.447	0.643	2.230
1911	0.598	0.592	0.546	0.677	2.413
1912	0.709	0.609	0.454	0.651	2.423
1913	0.650	0.609	0.470	0.679	2.408
1914	0.682	0.694	0.472	0.684	2.532
1912	0.625	0.611	0.503	0.654	2.393
1916	0.696	0.682	0.516	0.648	2.542
1917	0.663	0.687	0.520	0.779	2.649

Horses held by rural population in mlns.

4. CPR

b) Volga												
									CPR			
	Astrakhan G.	Saratov G.	Samara G.	Penza G.	Simbirsk G.	Kazan G.	Vyatka G.	Ufa G.	All Volga in mlns.	a) Cent. Chernozem	b) Volga	4) All CPR in mlns.
1842/50	0.101	0.793		0.312	0.694	0.416	0.471		3.299	2.453		5,752
1851/60	0.194	0.486	0.709	0.338	0.324	0.623	0.588	(0,60)	3.861	2.354		6,215
1859/64												
1883	0.205	0.515	0.888	0.334	0.315	0.422	0.701	0.621	4.001	2.239	4.001	6.240
1900	0.090	0.610	0.892	0.326	0.316	0.428	0.717	0.749	4.128	2.243	4.128	6.371
1901	0.127	0.585	0.859	0.322	0.298	0.449	0.726	0.725	4.091	2.092	4.091	6.183
1902	0.134	0.596	0.899	0.344	0.298	0.439	0.686	0.733	4.129	2.159	4.129	6.288
1903	0.132	0.611	0.952	0.381	0.310	0.434	0.733	0.793	4.296	2.249	4.296	6.545
1904	0.122	0.636	1.122	0.362	0.356	0.441	0.641	0.898	4.578	2.798	4.578	7.376
1905	0.116	0.660	1.149	0.356	0.349	0.488	0.811	0.927	4.856	2.503	4.856	7.359
1906	0.123	0.621	1.141	0.343	0.365	0.473	0.747	0.927	4.740	2.360	4.740	7.100
1907	0.120	0.580	0.970	0.319	0.395	0.418	0.729	0.786	4.297	2.223	4.297	6.520
1908	0.122	0.577	1.076	0.324	0.323	0.444	0.704	0.859	4.429	2.208	4.429	6.637
1909	0.127	0.558	1.032	0.337	0.310	0.447	0.714	0.857	4.382	2.166	4.382	6.548
1910	0.136	0.571	1.149	0.347	0.319	0.462	0.718	0.938	4.640	2.230	4.640	6.870
1911	0.132	0.607	1.199	0.354	0.323	0.467	0.720	0.946	4.748	2.413	4.748	7.161
1912	0.132	0.576	1.119	0.352	0.307	0.436	0.735	0.771	4.428	2.423	4.428	6.851
1913	0.120	0.563	1.009	0.368	0.315	0.456	0.726	0.812	4.369	2.408	4.369	6.777
1914	0.123	0.601	1.148	0.359	0.327	0.480	0.744	0.854	4.636	2.532	4.636	7.186
1912	0.350	0.600	1.175	0.349	0.325	0.447	0.751	0.855	4.852	2.393	4.852	7.245
1916	0.418	0.658	1.267	0.336	0.335	0.486	0.756	0.994	5.250	2.542	5.250	7.792
1917	0.143	0.680	1.210	0.333	0.347	0.490	0.735	0.994	4.932	2.649	4.932	7.581

Horses held by Rural population in mlns.

5. EPR

a) Urals

	Perm G.	Orenburg G.	All Urals in mlns.
1842/50	0.682	1.803	2.485
1851/60	0.817	1.421	2.238
1859/64			
1883	0.972	0.600	1.572
1900	0.902	0.703	1.605
1901	1.027	0.761	1.787
1902	1.015	0.792	1.807
1903	0.964	0.815	1.779
1904	1.030	0.848	1.878
1905	1.067	0.923	1.990
1906	1.103	1.017	2.120
1907	1.083	0.903	1.986
1908	1.035	0.897	1.932
1909	1.044	0.946	1.990
1910	1.053	0.964	2.017
1911	1.085	1.005	2.090
1912	0.957	0.714	1.671
1913	0.985	0.755	1.740
1914	1.020	0.839	1.859
1912	0.877	0.605	1.482
1916	1.069	1.219	2.288
1917	0.578		1.24

Horses held by rural population in mlns.

5. EPR
b. Siberia

	Tobolsk G.	Tomsk G.	Amur	Enisei	Irkutsk	Zabaikal	Yakutsk	Primorskaya	All Siberia in mlns.
1842/50									
1851/60									
1859/64									
1883									
1900									
1901	0.713	1.605		0.439					(3.66)
1902	0.774	1.568		0.454					(3.72)
1903	0.754	1.640		0.476					(3.81)
1904	0.830	1.523		0.352	0.216				(3.59)
1905	0.848	1.503		0.446	0.217				(3.71)
1906	0.855	1.516		0.440	0.222				(3.73)
1907	0.856	1.483		0.468	0.213				(3.71)
1908	0.822	1.667		0.473	0.217				(3.91)
1909	0.843	1.899	0.089	0.444	0.211	0.546	0.053	0.092	4.177
1910	0.890	1.997	0.106	0.466	0.225	0.558	0.058	0.096	4.396
1911	0.889	2.140	0.101	0.496	0.279	0.577	0.062	0.088	4.642
1912	0.803	2.111	0.104	0.515	0.234	0.561	0.077	0.100	4.505
1913	0.878	2.039	0.113	0.522	0.237	0.567	0.080	0.109	4.545
1914	0.901	2.305	0.125	0.519	0.237	0.565	0.076	0.112	4.840
1912	0.906	2.243		0.514	0.269				(6.29)
1916	1.175	2.621		0.600	0.366				(7.62)
1917	1.063	0.978		0.598	0.346	1.664	0.127		(4.776)

Horses held by rural population in mlns.

5. EPR c. Kazakhstan							5. All EPR			
	Akmolinsk G.	Semirechensk G.	Uralsk G.	Turgai	Semipalatinsk G.	All Kazakhstan in mlns	a) Urals	b) Siberia	c) Kazakhstan	5. All EPR
1842/50										
1851/60										
1859/64										
1883										
1900										
1901	0.646	0.636		0.507	0.636	(2.78)	1.787	(3.66)	(2.78)	(8.23)
1902	0.696	0.642		0.552	0.642	(2.88)	1.807	(3.72)	(2.88)	(8.41)
1903	0.709	0.667		0.515	0.667	(2.91)	1.779	(3.81)	(2.91)	(8.50)
1904	0.052	0.134		0.493	0.134	(1.11)	1.878	(3.59)	(1.11)	(6.58)
1905	0.056	0.533		0.482	0.533	(1.95)	1.990	(3.71)	(1.95)	(7.65)
1906	0.086	0.583		0.515	0.583	(2.12)	2.120	(3.73)	(2.12)	(7.97)
1907	0.083	0.563		0.515	0.565	(2.08)	1.986	(3.71)	(2.08)	(7.78)
1908	0.083	0.686		0.560	0.646	(2.29)	1.932	(3.91)	(2.29)	(8.13)
1909	0.097	0.733	0.363	0.623	0.733	2.549	1.990	4.177	2.549	8.716
1910	0.241	0.800	0.350	0.603	0.810	2.804	2.017	4.396	2.804	9.217
1911	0.764	0.823	0.347	0.651	0.823	3.408	2.090	4.642	3.408	10.140
1912	0.728	0.952	0.289	0.507	0.717	3.193	1.671	4.505	3.193	9.369
1913	0.849	0.928	0.299	0.542	0.683	3.301	1.740	4.545	3.301	9.586
1914	0.836	0.960	0.350	0.555	0.606	3.307	1.859	4.840	3.307	10.006
1912	0.857		0.230	0.566	0.515	2.17	1.482	(6.29)	2.17	9.94
1916	1.268		0.232	0.594	0.771	2.87	2.288	(7.62)	2.87	12.77
1917	1.278		0.126		0.964	(2.99)	(1.24)	(4.78)	(2.99)	(9.00)

Long horned cattle held by rural population in mlns.

1. NCR
a. N & NW

	Arkhangel G.	Vologda G.	Olonetsk G.	Petersburg G.	Novgorod G.	Pskov G.	Smolensk G.	Tver G.	All N & NW in mlns.
1842/50	0.095	0.451	0.093	0.206	0.535	0.264	0.628	0.689	2.961
1851/60	0.098	0.424	0.105	0.148	0.463	0.265	0.544	0.645	2.692
1859/64 1883	0.080	0.515	0.137	0.186	0.395	0.346	0.355	0.578	2.592
1900	0.126	0.645	0.169	0.199	0.563	0.542	0.652	0.670	3.566
1901	0.118	0.628	0.184	0.211	0.494	0.472	0.593	0.737	3.437
1902	0.117	0.629	0.174	0.184	0.471	0.471	0.598	0.706	3.350
1903	0.103	0.587	0.163	0.187	0.486	0.439	0.594	0.676	3.235
1904	0.103	0.628	0.155	0.203	0.507	0.473	0.613	0.607	3.289
1905	0.113	0.691	0.175	0.214	0.504	0.527	0.679	0.683	3.586
1906	0.120	0.713	0.178	0.211	0.578	0.508	0.658	0.685	3.651
1907	0.121	0.724	0.178	0.208	0.584	0.480	0.650	0.674	3.619
1908	0.120	0.697	0.183	0.216	0.584	0.473	0.612	0.648	3.533
1909	0.117	0.694	0.183	0.221	0.563	0.484	0.585	0.613	3.460
1910	0.124	0.715	0.189	0.225	0.585	0.494	0.582	0.615	3.524
1911	0.128	0.720	0.185	0.225	0.559	0.514	0.603	0.598	3.532
1912	0.129	0.736	0.185	0.228	0.563	0.486	0.616	0.612	3.555
1913	0.123	0.758	0.192	0.227	0.634	0.521	0.658	0.636	3.749
1914	0.105	0.685	0.187	0.228	0.609	0.511	0.649	0.636	3.610
1916	0.165	0.836	0.227	0.282	0.759	0.666	0.640	0.765	4.340
1917	0.166	0.818	0.239	0.299	0.777		0.637	0.802	(4.416)

Long horned cattle held by rural population in mlns.

1. NCR
b) Cent. Ind. R.

	Yaroslavl G.	Mosovskaya G.	Vladimirskaya G.	Kostromskaya G.	Kalyuzhskaya G.	Nizhne Novgorodskaya G.	Tulskaya G.	Ryazanskaya G.	All Cent. Ind. R. in mlns.
1842/50	0.480	0.311	0.395	0.549	0.343	0.253	0.310	0.313	2.954
1851/60	0.429	0.332	0.345	0.500	0.283	0.301	0.260	0.292	2.742
1859/64									
1883	0.253	0.225	0.317	0.487	0.234	0.229	0.201	0.268	2.224
1900	0.364	0.305	0.388	0.459	0.332	0.328	0.320	0.444	2.940
1901	0.350	0.305	0.370	0.523	0.329	0.306	0.244	0.326	2.753
1902	0.451	0.309	0.377	0.504	0.340	0.316	0.264	0.336	2.897
1903	0.324	0.287	0.359	0.465	0.356	0.296	0.257	0.334	2.678
1904	0.381	0.304	0.364	0.398	0.325	0.277	0.326	0.453	2.828
1905	0.410	0.332	0.397	0.465	0.354	0.336	0.344	0.442	3.080
1906	0.408	0.337	0.416	0.485	0.348	0.333	0.295	0.426	3.048
1907	0.396	0.342	0.407	0.440	0.341	0.310	0.282	0.420	2.948
1908	0.394	0.336	0.407	0.416	0.313	0.326	0.297	0.433	2.922
1909	0.394	0.344	0.409	0.442	0.330	0.339	0.285	0.441	2.984
1910	0.373	0.357	0.403	0.464	0.330	0.362	0.327	0.473	3.089
1911	0.381	0.352	0.401	0.460	0.326	0.375	0.338	0.467	3.100
1912	0.358	0.353	0.413	0.483	0.338	0.337	0.348	0.459	3.089
1913	0.360	0.467	0.406	0.494	0.331	0.353	0.353	0.470	3.236
1914	0.377	0.364	0.404	0.511	0.364	0.363	0.349	0.472	3.204
1916	0.472	0.350	0.467	0.563	0.405	0.467	0.443	0.610	3.777
1917	0.466	0.386	0.458	0.572	0.453	0.432	0.472	0.572	3.811

Long horned cattle held by rural population in mlns.

1. NCR c) Belorussia						1. All NCR			
	Vitebskaya G.	Minskaya G.	Mogelevskaya G.	All Belorussia in mlns.	All Belorussia in mlns. (adjusted)	1. a) N & NW	1. b) Cent. Ind.	1. c) BSSR	1. All NCR
1842/50	0.290	0.490	0.560	1.340	1.152	2.961	2.954	1.152	7.067
1851/60	0.286	0.454	0.342	1.082	0.930	2.692	2.742	0.930	6.364
1859/64 1883	0.450	0.519	0.362	1.331	1.144	2.592	2.224	1.144	5.960
1900	0.621	1.065	0.622	2.308	1.985	3.566	2.940	1.985	8.491
1901	0.487	0.882	0.586	1.955	1.681	3.437	2.753	1.681	7.871
1902	0.475	0.946	0.575	1.996	1.717	3.350	2.897	1.717	7.964
1903	0.508	0.952	0.562	2.022	1.739	3.235	2.678	1.739	7.652
1904	0.546	1.054	0.609	2.209	1.900	3.289	2.828	1.900	8.017
1905	0.598	1.126	0.652	2.376	2.043	3.586	3.080	2.043	8.709
1906	0.585	1.101	0.662	2.348	2.019	3.651	3.048	2.019	8.718
1907	0.578	1.089	0.662	2.329	2.003	3.619	2.948	2.003	8.570
1908	0.597	1.058	0.642	2.297	1.975	3.533	2.922	1.975	8.430
1909	0.573	1.054	0.650	2.277	1.958	3.460	2.984	1.958	8.402
1910	0.587	1.071	0.642	2.300	1.978	3.529	3.089	1.978	8.596
1911	0.576	1.078	0.628	2.282	1.963	3.532	3.100	1.963	8.595
1912	0.606	1.086	0.638	2.330	2.004	3.555	3.089	2.004	8.648
1913	0.657	1.116	0.645	2.418	2.079	3.749	3.236	2.079	9.064
1914	0.657	1.101	0.643	2.401	2.065	3.610	3.204	2.065	8.879
1916	0.415	0.816	0.656	1.885	1.621	4.340	3.777	1.621	9.738
1917	0.329		0.749	(1.901)	(1.634)	(4.416)	3.811	(1.634)	(9.861)

Long horned cattle held by rural population in mlns.

2. SCR
a) ZSFSR

	Baku G.	Batumi G.	Elisavetpol G.	Karso G.	Kutaisii G.	Sukhumi G.	Tiflis G.	Zakatalskii Ok.	Erivan G.	Total ZSFSR in mlns.
1842/50										
1851/60										
1859/64										
1883										
1900										
1901										
1902										
1903										
1904										
1905										
1906										
1907										
1908										
1909	0.285	0.072	0.414	0.348	0.428	0.057	0.477	0.022	0.464	2.567
1910	0.331	0.084	0.434	0.349	0.409	0.062	0.609	0.061	0.488	2.827
1911	0.320	0.081	0.369	0.349	0.431	0.050	0.501	0.054	0.517	2.672
1912	0.569	0.076	0.416	0.337	0.417	0.050	0.434	0.040	0.536	2.875
1913	0.217	0.046	0.520	0.415	0.472	0.015	0.587	0.039	0.501	2.812
1914	0.306		0.548	0.202	0.409	0.060	0.597	0.037	0.466	2.619

Long horned cattle held by rural population in mlns.

2. SCR b) Central Asia								
	Zakaspi skaya G.	Sgir Dar G.	Ferganskaya G.	Samarkandskaya G.	Total Cent. Asia in mlns.	2. a) ZSFSR	2. b) Cent Asia	2. All SCR
1842/50								
1851/60								
1859/64								
1883								
1900								
1901								
1902								
1903								
1904								
1905								
1906								
1907								
1908								
1909	0.055	0.764	0.574	0.228	1.621	2.567	1.621	4.188
1910	0.048	0.747	0.507	0.236	1.538	2.827	1.538	4.365
1911	0.055	0.801	0.474	0.255	1.585	2.672	1.585	4.257
1912	0.052	0.884	0.415	0.265	1.616	2.875	1.616	4.491
1913	0.071	0.720	0.432	0.239	1.462	2.812	1.462	4.274
1914	0.063	0.692	0.400	0.292	1.447	2.619	1.447	4.066

Long horned cattle held by rural population

3. SPR
a) Ukraine

	Poltavskaya G.	Kaharkovskaya G.	Chernigovskaya G.	Kievskaya G.	Volyinskaya G.	Podolskaya G.	Khersonskaya G.	Ekaterinoslavskaya G.	Tavricheskaya G.	All Ukraine in mlns.	All Ukraine in mlns. (adjusted)
1842/50	0.659	0.595	0.280	0.552	0.606	0.420	0.733	0.461	0.565		
1851/60	0.661	0.507	0.340	0.531	0.548	0.400	0.316	0.592	0.435		
1859/64											
1883	0.625	0.504	0.501	0.440	0.648	0.668	0.748	0.718	0.470		
1900	0.849	0.882	0.623	0.759	1.130	0.608	0.927	1.014	0.598		
1901	0.821	0.748	0.588	0.620	1.119	0.681	0.761	0.781	0.464	6.583	6.418
1902	0.748	0.763	0.617	0.638	1.078	0.597	0.908	0.767	0.468	6.584	6.419
1903	0.816	0.755	0.615	0.648	1.096	0.601	0.969	0.701	0.453	6.654	6.488
1904	0.692	0.772	0.507	0.654	0.983	0.677	0.776	0.680	0.476	6.167	6.013
1905	0.782	0.852	0.669	0.762	1.138	0.669	0.878	0.825	0.501	7.076	6.900
1906	0.757	0.813	0.687	0.742	1.127	0.668	0.743	0.801	0.509	6.847	6.676
1907	0.766	0.725	0.662	0.738	1.113	0.682	0.867	0.799	0.469	6.826	6.655
1908	0.740	0.674	0.634	0.692	1.135	0.666	0.782	0.713	0.452	6.488	6.326
1909	0.717	0.715	0.607	0.660	1.149	0.654	0.736	0.680	0.428	6.346	6.188
1910	0.720	0.750	0.676	0.680	1.130	0.670	0.606	0.695	0.414	6.341	6.182
1911	0.702	0.791	0.645	0.673	1.148	0.666	0.752	0.674	0.452	6.501	6.338
1912	0.709	0.770	0.669	0.708	1.149	0.694	0.676	0.656	0.452	6.481	6.319
1913	0.750	0.814	0.771	0.811	1.129	0.727	0.741	0.659	0.456	6.858	6.687
1914	0.736	0.821	0.711	0.858	1.112	0.731	0.643	0.687	0.485	6.959	6.785
1916	1.024	0.955	0.886	1.045	(0.441)	0.843	1.029	0.928	0.592	7.743	7.549
1917	1.089	1.054	0.908	1.032	0.441			0.939		(8.013)	(7.813)

Long horned cattle held by rural population in mlns.

3. SPR
b) North Caucasus

	Kuban G.	Chernomorskaya G.	Stavropol G.	Tersk G.	Don Ob.	Dagestan Ob.	All N. Caucasus in mlns.	3. a) Ukraine	3. b) N. Caucasus	3. All SPR
1842/50			0.188							
1851/60			0.297							
1859/64										
1883					1.837					
1900					2.425					
1901	1.567	0.024	0.886	1.104	2.390		(6.32)	6.418	(6.32)	12.74
1902	0.610	0.027	0.865	1.121	2.368		(6.34)	6.419	(6.34)	12.76
1903	1.532	0.029	0.810	1.043	2.434		(6.20)	6.488	(6.20)	12.69
1904	1.316	0.022	0.656	0.879	2.083		(5.31)	6.013	(5.31)	11.32
1905	1.344	0.025	0.715	0.980	2.454		(5.87)	6.900	(5.87)	12.77
1906	1.520	0.025	0.645	0.991	2.336		(5.87)	6.676	(5.87)	12.54
1907	1.443	0.025	0.653	0.928	2.986		(6.39)	6.655	(6.39)	13.04
1908	1.281	0.022	0.682	0.998	2.954		(6.29)	6.326	(6.29)	12.61
1909	1.274	0.022	0.604	0.901	2.002	0.381	5.194	6.188	5.194	11.38
1910	1.309	0.023	0.636	0.976	0.203	0.351	5.325	6.182	5.325	11.51
1911	1.311	0.026	0.637	0.922	2.056	0.346	5.298	6.338	5.298	11.64
1912	1.515	0.024	0.604	0.786	2.094	0.326	5.349	6.319	5.349	11.67
1913	1.298	0.026	0.605	0.947	2.104	0.347	5.327	6.687	5.327	12.01
1914	1.295	0.026	0.599	0.872	2.214	0.368	5.374	6.785	5.374	12.16
1916	1.497	0.041	0.810	0.952	2.810		6.11	7.549	6.11	13.66
1917					2.695		(5.860)			(13.67)

Long horned cattle held by the rural population

4. CPR
a) Central Chernozem

	Voronezh G.	Kursk G.	Orlov G.	Tambov G.	All Cent. Chernozem in mlns.
1842/50	0.593	0.478	0.407	0.523	2.002
1854/60	0.593	0.499	0.390	0.401	1.883
1859/64					
1883	0.642	0.410	0.273	0.391	
1900	0.903	0.534	0.401	0.687	
1901	0.785	0.449	0.312	0.537	2.083
1902	0.819	0.482	0.318	0.577	2.166
1903	0.865	0.464	0.330	0.606	2.265
1904	0.921	0.519	0.392	0.659	2.491
1905	1.050	0.586	0.440	0.727	2.803
1906	0.833	0.548	0.422	0.654	3.424
1907	0.734	0.532	0.396	0.608	2.270
1908	0.744	0.513	0.383	0.602	2.342
1909	0.705	0.495	0.385	0.608	2.193
1910	0.764	0.516	0.400	0.622	2.302
1911	0.792	0.546	0.421	0.663	2.424
1912	0.820	0.600	0.459	0.673	2.552
1913	0.868	0.580	0.450	0.689	2.587
1914	0.896	0.600	0.453	0.689	2.638
1916	1.123	0.740	0.559	0.842	3.264
1917	1.077	0.746	0.615	0.901	3.339

Long horned cattle held by rural population in mlns.

4. CPR b) Volga										4. All CPR		
	Astrakhan G.	Saratov G.	Samara G.	Penza G.	Simbirsk G.	Kazan G.	Vyatka G.	Ufa G.	All Volga in mlns.	a) Cent. Chernozem	b) Volga	4. All CPR in mlns.
1842/50	0.368	0.911		0.243	0.531	0.374	0.724			2.002		
1854/60	0.401	0.546	0.494	0.235	0.247	0.368	0.834			1.883		
1859/64												
1883	0.564	0.522	0.593	0.238	0.298	0.367	0.922	0.391				
1900	0.490	0.977	1.139	0.260	0.371	0.443	1.164	0.782				
1901	0.627	0.888	0.904	0.309	0.336	0.444	1.115	0.745	5.368	2.083	5.368	7.451
1902	0.635	0.890	0.962	0.357	0.321	0.469	1.045	0.758	5.437	2.166	5.437	7.603
1903	0.568	0.909	1.025	0.346	0.339	0.477	1.085	0.848	5.597	2.265	5.597	7.862
1904	0.484	0.775	1.190	0.344	0.378	0.430	0.942	0.857	5.400	2.491	5.400	7.891
1905	0.524	0.979	1.371	0.433	0.399	0.500	1.202	1.035	6.443	2.803	6.443	9.246
1906	0.512	0.829	1.255	0.388	0.372	0.513	0.566	1.037	5.472	3.424	5.472	8.896
1907	0.469	0.764	0.973	0.340	0.300	0.429	1.083	0.870	5.228	2.270	5.228	7.498
1908	0.490	0.835	1.027	0.357	0.325	0.489	1.032	0.934	5.489	2.242	5.489	7.731
1909	0.517	0.796	1.082	0.383	0.329	0.497	1.110	0.960	5.674	2.193	5.674	7.867
1910	0.551	0.798	1.170	0.404	0.344	0.527	1.141	1.018	5.953	2.302	5.953	8.255
1911	0.503	0.844	1.271	0.431	0.369	0.549	1.161	1.093	6.221	2.424	6.221	8.645
1912	0.515	0.790	1.046	0.410	0.328	0.484	1.079	0.785	5.437	2.552	5.437	7.989
1913	0.440	0.761	0.944	0.433	0.367	0.531	1.143	0.810	5.429	2.587	5.429	8.016
1914	0.471	0.790	1.175	0.422	0.364	0.564	1.141	0.878	5.805	2.638	5.805	8.443
1916	1.363	0.970	1.498	0.475	0.499	0.713	1.491	1.317	8.326	3.264	8.326	11.590
1917	0.552	1.051	1.469	0.465	0.507	0.666	1.391	1.253	7.354	3.339	7.354	10.693

Long horned cattle held by rural population in mlns.

5. EPR

a) Urals

	Perm G	Orenburg G.	All Urals in mlns.
1842/50	0.626	1.245	1.871
1851/60	0.742	0.797	1,539
1859/64			
1883	0.897	0.554	1.451
1900	1.381	0.896	2.277
1901	1.347	0.946	2.293
1902	1.358	0.946	2.306
1903	1.193	0.968	2.161
1904	1.197	0.934	2.131
1905	1.415	1.037	2.452
1906	1.447	1.095	2.542
1907	1.461	1.060	2.521
1908	1.312	1.054	2.366
1909	1.327	1.011	2.338
1910	1.368	1.143	2.511
1911	1.465	1.160	2.625
1912	1.178	0.747	1.925
1913	1.228	0.853	2.081
1914	1.332	0.950	2.282
1916	1.790	1.517	3.307
1917	0.895	0.923	1.818

Long horned cattle held by rural population in mlns.

5. EPR
b) Siberia

	Tobolsk G.	Tomsk G.	Amur G.	Enisei G.	Irkutsk G.	Zabaikal G.	Yakutsk G.	Primorskaya G.	All Siberia in mlns.
1842/50									
1851/60									
1859/64									
1883									
1900									
1901	0.925	1.482		0.441					(4.14)
1902	1.036	1.573		0.440					(4.43)
1903	1.050	1.602		0.470					(4.54)
1904	1.080	1.503		0.445	0.297				(4.40)
1905	1.249	1.791		0.501	0.328				(5.12)
1906	1.212	1.743		0.501	0.342				(5.03)
1907	1.278	1.804		0.487	0.327				(5.16)
1908	1.118	2.056		0.510	0.333				(5.33)
1909	1.130	1.952	0.078	0.511	0.320	0.916	0.138	0.135	5.180
1910	1.240	2.429	0.080	0.515	0.347	0.979	0.124	0.156	5.870
1911	1.280	2.449	0.078	0.548	0.361	0.984	0.150	0.155	6.005
1912	0.992	1.964	0.080	0.547	0.348	1.035	0.190	0.150	5.306
1913	1.199	2.416	0.089	0.575	0.343	1.166		0.166	5.954
1914	1.289	2.747	0.099	0.576	0.343	1.124	0.196	0.174	6.542
1916	2.226	3.399		0.756	0.793				(9.741)
1917	1.859	1.297		0.736	0.677	2.088*	0.479		7.136

Long horned cattle held by rural population in mlns.

5. EPR c. Steppes							5. All EPR			
	Akmolinsk G.	Semirechensk G.	Uralsk G.	Turgai	Semipalatinsk	All Steppes in mlns.	a) Urals	b) Siberia	c) Steppes	5. All EPR
1842/50							1.871			
1851/60							1.539			
1859/64										
1883							1.451			
1900							2,277			
1901	0.452	0.489	0.407		0.450	2.348	2.293	(4.14)	2.348	
1902	0.678	0.520	0.421		0.475	2.734	2.306	(4.43)	2.734	
1903	0.739	0.528	0.463		0.491	2.900	2.161	(4.54)	2.900	
1904	0.166	0.451	0.062		0.479	1.512	2.131	(4.40)	1.512	
1905	6.197	0.560	0.418		0.521	2.214	2.452	(5.12)	2.214	
1906	0.237	0.564	0.467		0.545	2.367	2.542	(5.03)	2.367	
1907	0.221	0.641	0.442		0.541	2.409	2.521	(5.16)	2.409	
1908	0.214	0.576	0.533		0.604	2.516	2.366	(5.33)	2.516	
1909	0.285	0.670	0.651	0.685	0.635	2.926	2.338	5.180	2.926	
1910	0.389	0.704	0.695	0.691	0.731	3.210	2.511	5.870	3.210	
1911	0.852	0.741	0.684	0.576	0.802	3.655	2.625	6.005	3.655	
1912	0.833	0.737	0.674	0.572	0.690	3.506	1.925	5.306	3.506	
1913	0.925	0.729	0.640	0.601	0.718	3.613	2.081	5.954	3.613	
1914	0.980	0.768	0.549	0.658	0.612	3.567	2.282	6.542	3.567	
1916	1.521		1.036	0.840	0.812	4.309	3.307	(9.741)	4.309	17.357
1917	1.679		0.401		1.042	3.993	1.818	7.136	3.993	12.947

Pigs held by rural population in mlns.

1. NCR
a. N & NW

	Arkhangel G.	Vologda G.	Olonetsk G.	Petersburg G.	Novgorod G.	Pskov G.	Smolensk G.	Tver G.	All N & NW in mlns.
1842/50	0.002	0.048	0.006	0.016	0.091	0.096	0.240	0.634	1.133
1851/60	0.001	0.051	0.014	0.021	0.048	0.083	0.193	0.436	0.847
1859/64									
1883		0.052	0.065	0.012	0.051	0.090	0.168	0.020	
1900		0.049	0.007	0.036	0.060	0.147	0.314	0.074	
1901		0.048	0.005	0.036	0.058	0.158	0.251	0.074	0.630
1902		0.050	0.005	0.034	0.039	0.144	0.262	0.058	0.592
1903		0.046	0.004	0.038	0.052	0.136	0.263	0.067	0.606
1904		0.054	0.004	0.040	0.059	0.122	0.301	0.068	0.648
1905	0.002	0.056	0.003	0.036	0.045	0.116	0.291	0.064	0.613
1906		0.055	0.003	0.037	0.051	0.118	0.296	0.076	0.636
1907		0.059	0.004	0.037	0.059	0.114	0.284	0.071	0.628
1908		0.061	0.004	0.039	0.057	0.115	0.269	0.064	0.609
1909		0.059	0.005	0.041	0.054	0.113	0.257	0.054	0.583
1910		0.062	0.005	0.041	0.058	0.113	0.252	0.053	0.584
1911		0.070	0.004	0.040	0.058	0.122	0.258	0.062	0.614
1912	0.061	0.070	0.004	0.042	0.063	0.129	0.281	0.067	0.657
1913	0.001	0.075	0.004	0.043	0.068	0.132	0.296	0.073	0.692
1914	0.001	0.073	0.004	0.042	0.073	0.137	0.308	0.073	0.711
1916	0.001	0.090	0.002	0.047	0.077	0.186	0.568	0.078	1.049
1917	0.001	0.108	0.002	0.082	0.124		0.597	0.114	(1.224)

Pigs held by rural population in mlns.

1. NCR
b) Cent. Ind. R.

	Yaroslavl G.	Mosovskaya G.	Vladimirskaya G.	Kostromskaya G.	Kalyuzhskaya G.	Nizhne Novgorodskaya G.	Tulskaya G.	Ryazanskaya G.	All Cent. Ind. R. in mlns.
1842/50	0.008	0.042	0.016	0.032	0.296	0.125	0.153	0.225	0.897
1851/60	0.006	0.062	0.014	0.040	0.230	0.112	0.140	0.246	0.850
1859/64									
1883	0.004	0.025	0.017	0.016	0.149	0.066	0.090	0.122	
1900	0.014	0.094	0.060	0.064	0.220	0.066	0.142	0.175	
1901	0.009	0.061	0.039	0.049	0.165	0.081	0.111	0.120	0.635
1902	0.007	0.065	0.045	0.047	0.199	0.086	0.117	0.121	0.687
1903	0.006	0.059	0.046	0.048	0.190	0.064	0.123	0.118	0.654
1904	0.012	0.092	0.058	0.059	0.202	0.063	0.139	0.145	0.770
1905	0.014	0.101	0.058	0.057	0.192	0.081	0.108	0.127	0.738
1906	0.017	0.096	0.065	0.056	0.195	0.091	0.083	0.106	0.709
1907	0.013	0.095	0.058	0.043	0.168	0.068	0.088	0.107	0.640
1908	0.013	0.085	0.046	0.038	0.167	0.086	0.099	0.120	0.654
1909	0.013	0.084	0.049	0.045	0.166	0.090	0.104	0.125	0.676
1910	0.012	0.082	0.050	0.045	0.162	0.094	0.103	0.126	0.674
1911	0.015	0.097	0.059	0.053	0.162	0.100	0.119	0.133	0.738
1912	0.016	0.094	0.071	0.065	0.172	0.078	0.133	0.143	0.772
1913	0.018	0.099	0.062	0.058	0.172	0.084	0.130	0.141	0.764
1914	0.019	0.096	0.065	0.061	0.183	0.097	0.122	0.143	0.786
1916	0.016	0.107	0.055	0.110	0.277	0.106	0.184	0.281	1.136
1917	0.016	0.119	0.056	0.115	0.341	0.091	0.294	0.302	1.334

Pigs held by rural population in mlns.

1. NCR c. Belorussia						1. All NCR			
	Vitebskaya G.	Minskaya G.	Mogelevskaya G.	All Belorussia in mlns.	All Belorussia in mlns. (adjusted)	1. a) N & NW	1. b) Cent. Ind.	1. c) BSSR	1. All NCR
1842/50	0.123	0.268	0.031	0.422	0.363	1.133	0.897	0.363	2.393
1851/60	0.124	0.247	0.031	0.402	0.346	0.847	0.850	0.346	2.043
1859/64									
1883	0.211	0.397	0.311	0.919	0.790	0.398	0.489	0.790	1.677
1900	0.344	0.601	0.474	1.419	1.220	0.687	0.835	1.220	2.762
1901	0.307	0.551	0.498	1.356	1.166	0.630	0.635	1.166	2.431
1902	0.283	0.573	0.495	1.351	1.162	0.592	0.687	1.162	2.441
1903	0.274	0.567	0.415	1.256	1.080	0.606	0.654	1.080	2.340
1904	0.280	0.592	0.418	1.290	1.109	0.648	0.770	1.109	2.527
1905	0.255	0.562	0.408	1.225	1.054	0.613	0.738	1.054	2.405
1906	0.259	0.550	0.424	1.233	1.060	0.636	0.709	1.060	2.405
1907	0.263	0.540	0.414	1.198	1.030	0.628	0.640	1.030	2.298
1908	0.265	0.525	0.400	1.190	1.023	0.609	0.654	1.023	2.286
1909	0.257	0.531	0.397	1.185	1.019	0.583	0.676	1.019	2.278
1910	0.270	0.537	0.385	1.192	1.025	0.584	0.674	1.025	2.283
1911	0.275	0.347	0.378	1.000	0.860	0.614	0.738	0.860	2.212
1912	0.285	0.577	0.387	1.249	1.074	0.657	0.772	1.074	2.503
1913	0.304	0.583	0.394	1.281	1.102	0.692	0.764	1.102	2.558
1914	0.321	0.598	0.396	1.315	1.131	0.711	0.786	1.131	2.628
1916	0.301	0.869	0.881	2.051	1.764	1.049	1.136	1.764	3.949
1917	0.258		0.979	2.146	1.846	(1.224)	1.334	1.846	4.404

Pigs held by rural population in mlns.

2. SCR
a. ZSFSR

	Baku G.	Batumi G.	Elisavetpol G.	Karso G.	Kutaisii G.	Sukhumi G.	Tiflis G.	Zakatalskii Ob.	Erivan G.	Total ZSFSR in mlns.
1842/50										
1851/60										
1859/64										
1883										
1900										
1901										
1902										
1903										
1904										
1905										
1906										
1907										
1908										
1909	0.003		0.021	0.001	0.194	0.016	0.057		0.001	0.293
1910	0.033		0.033	0.001	0.224	0.015	0.089		0.001	0.396
1911	0.070		0.024	0.002	0.229	0.019	0.062		0.002	0.388
1912	0.006	0.001	0.026	0.002	0.226	0.013	0.071		0.003	0.348
1913	0.008		0.029	0.002	0.250	0.007	0.105		0.002	0.403
1914	0.009		0.029	0.001	0.217	0.017	0.195		0.001	0.469

Pigs held by rural population in mlns.

2. SCR b. Central Asia						2. All SCR		
	Zakaspi skaya G.	Sgir Dar G.	Ferganskaya G.	Samarkandskaya G.	Total Cent. Asia in mlns.	2. a) ZSFSR	2. b) Cent Asia	2. All SCR
1842/50								
1851/60								
1859/64								
1883								
1900								
1901								
1902								
1903								
1904								
1905								
1906								
1907								
1908								
1909		0.009	0.002		0.011	0.293	0.011	0.304
1910	0.001	0.006	0.004		0.011	0.396	0.011	0.407
1911	0.001	0.008	0.003		0.012	0.388	0.012	0.420
1912	0.001	0.009	0.003		0.013	0.348	0.013	0.361
1913	0.001	0.021	0.002		0.025	0.403	0.025	0.428
1914	0.001	0.008	0.003	0.004	0.016	0.469	0.016	0.485

Pigs held by rural population in mlns.

3. SPR
a. Ukraine

	Poltavskaya G.	Kharkovskaya G.	Chernigovskaya G.	Kievskaya G.	Volyinskaya G.	Podolskaya G.	Khersonskaya G.	Ekaterinoslavskaya G.	Tavricheskaya G.	All Ukraine in mlns.	All Ukraine in mlns (adjusted)
1842/50	0.530	0.512	0.357	0.288	0.290	0.179	0.113	0.137	0.081	2.590	2.53
1851/60	0.499	0.321	0.435	0.371	0.383	0.240	0.097	0.175	0.083	2.770	2.70
1859/64											
1883	0.367	0.287	0.399	0.356	0.474	0.505	0.261	0.257	0.112	3 020	2.94
1900	0.438	0.297	0.456	0.413	0.573	0.333	0.328	0.318	0.229	3.385	3.30
1901	0.444	0.293	0.502	0.425	1.017	0.424	0.356	0.308	0.195	3.964	3.865
1902	0.415	0.284	0.549	0.427	0.682	0.431	0.290	0.324	0.182	3.584	3.494
1903	0.421	0.284	0.514	0.430	0.685	0.440	0.331	0.169	0.181	3.455	3.369
1904	0.411	0.293	0.483	0.435	0.624	0.382	0.336	0.320	0.206	3.490	3.403
1905	0.362	0.299	0.462	0.396	0.570	0.350	0.278	0.284	0.219	3.220	3.140
1906	0.346	0.280	0.454	0.398	0.586	0.335	0.245	0.277	0.189	3.110	3.032
1907	0.373	0.250	0.459	0.409	0.545	0.368	0.295	0.398	0.191	3.288	3.206
1908	0.349	0.241	0.432	0.382	0.568	0.370	0.296	0.296	0.184	3.118	3.040
1909	0.340	0.251	0.428	0.378	0.585	0.365	0.294	0.272	0.169	3.082	3.005
1910	0.359	0.277	0.463	0.391	0.588	0.368	0.283	0.303	0.169	3.181	3.101
1911	0.367	0.315	0.438	0.404	0.616	0.376	0.319	0.345	0.206	3.386	3.301
1912	0.386	0.328	0.462	0.439	0.635	0.399	0.335	0.346	0.212	3.542	3.453
1913	0.447	0.350	0.498	0.511	0.622	0.433	0.367	0.355	0.208	3.791	3.196
1914	0.420	0.376	0.514	0.530	0.624	0.420	0.361	0.376	0.207	3.900	3.803
1916	0.521	0.426	0.871	0.547	(0.371)	0.463	0.567	0.595	0.394	4.755	4.636
1917	0.820	0.741	0.881	0.762	0.371			0.806		(6.254)	(6.098)

Pigs held by rural population in mlns.

3. SPR
b. North Caucasus

	Kuban G.	Chernomorskaya G.	Stavropol G.	Tersk G.	Don Ob.	Dagestan Ob.	All N. Caucasus in mlns.	3. a) Ukraine	3. b) N. Caucasus	3. All SPR
1842/50			0.032					2.53		
1851/60			0.062					2.70		
1859/64										
1883								2.94		
1900					0.505			3.30		
1901	0.480	0.009	0.159	0.078	0.456		1.182	3.865	1.182	5.047
1902	0.501	0.010	0.149	0.078	0.392		1.130	3.494	1.130	4.624
1903	0.512	0.011	0.145	0.079	0.530		1.277	3.369	1.277	4.646
1904	0.486	0.010	0.159	0.082	0.502		1.239	3.403	1.239	4.642
1905	0.479	0.008	0.145	0.115	0.516		1.263	3.140	1.263	4.403
1906	0.479	0.008	0.138	0.081	0.460		1.166	3.032	1.166	4.198
1907	0.510	0.011	0.154	0.080	0.446		1.201	3.206	1.201	4.407
1908	0.475	0.009	0.226	0.081	0.408		1.199	3.040	1.199	4.239
1909	0.453	0.008	0.154	0.077	0.420	0.001	1.113	3.005	1.113	4.118
1910	0.498	0.009	0.166	0.092	0.446	0.001	1.212	3.101	1.212	4.313
1911	0.540	0.012	0.189	0.094	0.438	0.001	1.274	3.301	1.274	4.575
1912	0.541	0.012	0.173	0.099	0.548	0.002	1.285	3.453	1.285	4.738
1913	0.547	0.010	0.172	0.108	0.468	0.003	1.308	3.696	1.308	5.004
1914	0.566	0.010	0.197	0.107	0.450	0.001	1.331	3.803	1.331	5.134
1916	0.939	0.016	0.303	0.149	0.931		1.228	4,636	2.338	6.974
1917					0.995		(2.499)	(6.098)	(2.499)	(8.597)

Pigs held by rural population in mlns.

4. CPR
a) Central Chernozem

	Voronezh G.	Kursk G.	Orlov G.	Tambov G.	All Cent. Chernozem in mlns.
1842/50	0.342	0.475	0.458	0.469	1.744
1851/60	0.348	0.452	0.346	0.336	1.482
1859/64					
1883	0.312	0.359	0.219	0.263	1.153
1900	0.330	0.255	0.248	0.300	1.133
1901	0.258	0.224	0.185	0.264	0.931
1902	0.265	0.217	0.193	0.220	0.895
1903	0.241	0.211	0.198	0.238	0.888
1904	0.330	0.245	0.228	0.257	1.060
1905	0.300	0.229	0.214	0.249	0.997
1906	0.182	0.250	0.183	0.179	0.794
1907	0.162	0.187	0.178	0.136	0.663
1908	0.179	0.188	0.177	0.163	0.707
1909	0.162	0.170	0.170	0.105	0.607
1910	0.202	0.181	0.176	0.148	0.757
1911	0.251	0.224	0.218	0.267	0.960
1912	0.235	0.246	0.214	0.222	0.917
1913	0.247	0.238	0.221	0.227	0.933
1914	0.271	0.247	0.229	0.239	0.986
1916	0.379	0.371	0.403	0.368	1.521
1917	0.578	0.603	0.541	0.522	2.244

Pigs held by rural population in mlns.

4. CPR
b. Volga

4. All CPR

	Astrakhan G.	Saratov G.	Samara G.	Penza G.	Simbirsk G.	Kazan G.	Vyatka G.	Ufa G.	All Volga in mlns.	a) Cent. Chernozem	b) Volga	4. All CPR
1842/50	0.015	0.285		0.218	0.194	0.185	0.332	(0.128)	1.357	1.744	1.357	3.101
1851/60	0.037	0.162	0.205	0.238	0.108	0.151	0.375	(0.133)	1.409	1.482	1.409	2.891
1859/64												
1883	0.041	0.136	0.179	0.176	0.085	0.150	0.290	0.110	1.167	1.153	1.167	2.320
1900	0.036	0.188	0.200	0.140	0.088	0.173	0.241	0.139	1.205	1.133	1.205	2.338
1901	0.040	0.193	0.160	0.127	0.094	0.194	0.220	0.157	1.185	0.931	1.185	2.116
1902	0.039	0.179	0.170	0.139	0.076	0.190	0.177	0.165	1.135	0.985	1.135	2.030
1903	0.040	0.185	0.177	0.139	0.081	0.163	0.212	0.168	1.165	0.888	1.165	2.053
1904	0.031	0.161	0.236	0.108	0.088	0.169	0.199	0.169	1.161	1.060	1.161	2.221
1905	0.030	0.209	0.274	0.149	0.108	0.180	0.272	0.218	1.440	0.997	1.440	2.432
1906	0.030	0.150	0.264	0.118	0.104	0.187	0.290	0.277	1.420	0.794	1.420	2.214
1907	0.030	0.113	0.187	0.089	0.076	0.167	0.232	0.164	1.058	0.663	1.058	1.721
1908	0.034	0.120	0.188	0.102	0.096	0.166	0.352	0.191	1.249	0.707	1.249	1.956
1909	0.037	0.106	0.201	0.126	0.097	0.175	0.227	0.194	1.163	0.607	1.163	1.770
1910	0.038	0.129	0.257	0.137	0.095	0.102	0.248	0.247	1.253	0.757	1.253	2.010
1911	0.037	0.203	0.276	0.174	0.101	0.269	0.297	0.258	1.555	0.960	1.555	2.515
1912	0.033	0.084	0.164	0.123	0.065	0.158	0.262	0.133	1.022	0.917	1.022	1.939
1913	0.027	0.106	0.190	0.120	0.066	0.175	0.288	0.147	1.119	0.933	1.119	2.052
1914	0.032	0.136	0.245	0.124	0.079	0.198	0.298	0.162	1.274	0.986	1.274	2.260
1916	0.077	0.240	0.476	0.131	0.088	0.373	0.726	0.366	2.472	1.521	2.472	3.993
1917	0.062	0.346	0.524	0.134	0.112	0.427	0.673	0.438	2.716	2.244	2.716	4.960

Pigs held by rural population in mlns.

5. EPR

a. Urals

	Perm G.	Orenburg G.	All Urals in mlns.
1842/50	0.293	0.242	0.535
1851/60	0.309	0.229	0.538
1859/64			
1883	0.250	0.047	0.297
1900	0.239	0.047	0.286
1901	0.224	0.053	0.277
1902	0.182	0.060	0.242
1903	0.164	0.061	0.225
1904	0.194	0.067	0.261
1905	0.244	0.091	0.335
1906	0.290	0.143	0.433
1907	0.303	0.123	0.426
1908	0.231	0.099	0.330
1909	0.239	0.103	0.342
1910	0.254	0.122	0.376
1911	0.281	0.206	0.487
1912	0.201	0.035	0.236
1913	0.206	0.048	0.254
1914	0.237	0.077	0.314
1916	0.647	0.305	0.952
1917	0.355	0.174	0.529

Pigs held by rural population in mlns.

5. EPR
b. Siberia

	Tobolsk G.	Tomsk G.	Amur G.	Enisei G.	Irkutsk G.	Zabaikal G.	Yakutsk	Primorskaya G.	All Siberia in mlns.
1842/50									
1851/60									
1859/64									
1883									
1900									
1901	0.163	0.267		0.086					(0.71)
1902	0.148	0.217		0.092					(0.63)
1903	0.331	0.204		0.079					(0.84)
1904	0.182	0.229		0.116	0.056				(0.72)
1905	0.237	0.267		0.116	0.064				(0.85)
1906	0.271	0.297		0.131	0.068				(0.95)
1907	0.273	0.347		0.134	0.069				(1.02)
1908	0.219	0.433		0.146	0.067				(1.07)
1909	0.227	0.524	0.037	0.143	0.065	0.118		0.675	1.189
1910	0.272	0.340	0.642	0.127	0.050	0.124		0.084	1.039
1911	0.256	0.537	0.049	0.121	0.083	0.127		0.097	1.270
1912	0.134	0.470	0.053	0.124	0.081	0.125		0.105	1.092
1913	0.206	0.480	0.062	0.133	0.076	0.119		0.114	1.190
1914	0.249	0.664	0.067	0.146	0.076	0.113		0.113	1.428
1916	0.863	1.317		0.334	0.263				(3.486)
1917	0.639	0.592		0.377	0.257	0.708	0.001		2.574

Pigs held by rural population in mlns.

5. EPR

c. Kazakhstan							5. All EPR			
	Akmolinsk G.	Semirechensk	Uralsk	Turgai	Semipalatinsk	All Kazakhstan in mlns.	a) Urals	b) Siberia	c) Kazakhstan	5. All EPR
1842/50							0.535			
1851/60							0.538			
1859/64										
1883							0.297			
1900							0.286			
1901		0.016	0.001	0.004	0.003	(0.05)	0.277	(0.71)	(0.05)	1.037
1902	0.034	0.020	0.001	0.004	0.004	0.063	0.242	(0.63)	0.063	0.935
1903	0.023	0.023	0.001	0.004	0.009	0.060	0.225	(0.84)	0.060	1.125
1904	0.022	0.111	0.001	0.004	0.018	0.156	0.261	(0.72)	0.156	1.137
1905	0.031	0.024	0.002	0.004	0.015	0.076	0.335	(0.85)	0.076	1.261
1906	0.042	0.022	0.002	0.006	0.022	0.092	0.433	(0.95)	0.092	1.475
1907	0.034	0.020	0.002	0.004	0.019	0.083	0.426	(1.02)	0.083	1.529
1908	0.033	0.027	0.002	0.004	0.017	0.083	0.330	(1.07)	0.083	1.483
1909	0.043	0.035	0.005	0.006	0.023	0.112	0.342	1.189	0.112	1.643
1910	0.064	0.105	0.011	0.010	0.023	0.193	0.376	1.039	0.193	1.608
1911	0.053	0.025	0.012	0.010	0.022	0.122	0.487	1.270	0.122	1.879
1912	0.039	0.030	0.013	0.004	0.014	0.100	0.236	1.092	0.100	1.438
1913	0.051	0.016	0.036	0.005	0.016	0.124	0.254	1.190	0.124	1.568
1914	0.070	0.039	0.020	0.012	0.027	0.168	0.314	1.428	0.168	1.910
1916	0.199		0.036	0.095	0.045	0.375	0.952	(3.486)	0.375	4.813
1917	0.197		0.019	(0.095)	0.043	(0.354)	0.529	2.574	(0.354)	3.457

Rural livestock ownership by sector in 1900

	Horses			Cattle			Pigs		
	All	Private	Peasant	All	Private	Peasant	All	Private	Peasant
1. NCR									
Severnyi	0.298	0.017	0.281	0.771	0.051	0.720	0.049	0.002	0.048
Priozernyi	0.664	0.086	0.578	1.473	0.254	1.219	0.249	0.047	0.202
Prom.	1.384	0.108	1.276	2.518	0.218	2.300	0.526	0.036	0.489
Belorussia	1.484	0.318	1.166	2.959	0.789	7.170	1.733	0.319	1.415
	3.830	0.529	3.301	7.721	1.312	6.409	2.557	0.404	2.154
2. SCR									
3. SPR									
a) Malorossusk	1.337	0.220	1.117	2.354	0.434	1.920	1.191	0.173	1.018
Yugo Zapad.	1.700	0.390	1.310	2.497	0.598	1.899	1.319	0.234	1.085
Novo rossiisk	2.711	0.669	2.042	5.594	1.403	4.192	1.663	0.360	1.303
	5.748	1.279	4.469	10.445	2.435	8.011	4.173	0.767	3.406
4. CPR									
Tsent Zemled.	2.949	0.441	2.508	3.288	0.576	2.713	1.450	0.234	1.215
N. Volzhskii	1.686	0.158	1.528	5.525	0.379	2.146	0.283	0.028	0.256
Sred. Volzhskii	2.677	0.233	2.444	3.260	0.346	2.914	0.794	0.090	0.705
	7.312	0.832	6.480	9.073	1.301	7.773	2.527	0.353	2.176
5. EPR									
a) Priural	1.619	0.045	1.574	2.545	0.057	2.488	0.480	0.009	0.471
All	18.509	2.685	15.824	29.784	5.105	24.681	9.737	1.533	8.207
Prebaltic	0.413	0.128	0.285	1.195	0.372	0.823	0.591	0.153	0.438
Litovskii	0.761	0.198	0.563	1.933	0.556	1.377	1.041	0.197	0.844
All 50 Gub.	19.682	3.010	16.672	32.913	6.031	26.882	11.371	1.881	9.490

Source: Svodstatisticheskikh svedenii po sel. khoz. Rossii k kontsii XIX veka, vyp II, SPb. 1903, pp. 2-5

	Voronezh	Kursk	Orlov	Tambov	All C. Ch.Zem	Astrakhan	Saratov	Somara	Penza	Simbirsk	Kazan	Vyatka	Ufa	All Volga	All C.Ch.Z.	All Volga	All CPR
Horses																	
1883	0.529	0.605	0.459	0.646	2.239	0.205	0.515	0.888	0.334	0.315	0.422	0.701	0.621	4.001	2.239	4.001	6.240
1888	0.603	0.666	0.544	0.764	2.577	0.091	0.588	1.077	0.377	0.365	0.509	0.837	0.747	4.591	2.577	4.591	7.168
1891	0.405	0.620	0.427	0.494	1.946	0.215	0.536	0.553	0.258	0.258	0.380	0.663	0.747	3.610	1.946	5.556	7.502
1892	0.356	0.577	0.419	0.490	1.842	0.323	0.428	0.615	0.244	0.233	0.323	0.600	0.698	3.464	1.842	3.464	5.306
1896	0.452	0.608	0.480	0.565	2.105	0.323			0.284						2.105		
1897	0.452	0.526	0.413	0.543	1.934	0.339			0.288						1.934		
1898	0.410	0.619	0.391	0.541	1.961	0.351			0.299						1.961		
1900	0.566	0.587	0.450	0.640	2.243	0.090	0.610	0.892	0.326	0.316	0.428	0.717	0.749	4.128	2.243	4.128	6.371
Cattle																	
1883	0.642	0.410	0.273	0.391	1.716	0.564	0.522	0.593	0.238	0.298	0.367	0.922	0.391	3.895	1.716	3.895	5.611
1888	0.707	0.364	0.257	0.483	1.811	0.740	0.554	1.077	0.275	0.225	0.477	0.911	0.406	4.665	1.811	4.665	6.476
1891	0.556	0.443	0.243	0.322	1.564	1.076	0.793	0.484	0.190	0.218	0.436	1.069	0.393	4.659	1.564	4.659	6.223
1892	0.450	0.408	0.244	0.332	1.434	0.764	0.596	0.524	0.177	0.196	0.355	0.822	0.410	3.844	1.434	3.844	5.278
1896	0.655	0.432	0.369	0.446	1.902	0.764			0.241						1.902		
1897	0.655	0.400	0.261	0.438	1.754	1.038			0.259						1.754		
1898	0.569	0.594	0.259	0.453	1.875	1.061			0.250						1.875		
1900	0.903	0.534	0.401	0.487	2.525	0.490	0.977	1.139	0.260	0.371	0.443	1.164	0.782	5.626	2.525	5.626	8.151
Pigs																	
1883	0.312	0.359	0.219	0.263	1.153	0.041	0.136	0.179	0.176	0.085	0.150	0.290	0.110	1.167	1.153	1.167	2.320
1888	0.292	0.408	0.208	0.262	1.170	0.042	0.148	0.178	0.205	0.108	0.162	0.183	0.127	1.153	1.170	1.153	2.323
1891	0.214	0.300	0.153	0.129	0.796	0.042	0.117	0.088	0.080	0.071	0.135	0.159	0.079	0.771	0.796	0.771	1.567
1892	0.115	0.258	0.131	0.111	0.615	0.017	0.036	0.076	0.067	0.040	0.081	0.141	0.071	0.529	0.615	0.529	1.144
1896	0.278	0.309	0.411	0.282	1.280	0.042			0.147								
1897	0.278	0.269	0.145	0.229	0.926	0.049			0.164								
1898	0.186	0.340	0.143	0.212	0.881	0.046			0.108								
1900	0.330	0.255	0.248	0.300	1.133	0.036	0.188	0.200	0.140	0.088	0.173	0.241	0.139	1.205	1.133	1.205	2.338

iii) A combined series of data

The numbers of horses held by the rural population in mlns

Year	NCR	SCR	SPR	CPR	EPR	USSR	50gub
1842/50	4.95		(2.27)	5.75			
1851/60	4.70		(2.14)	6.22			
1859/64							15.50
1864/69							15.58
1881							15.53
1882							15.52
1883	4.31	—	(4.5)	6.24			17.37
1887							15.78
1888				7.17			19.66
1890							19.78
1891				7.50			17.31
1892				5.31			16.65
1894							16.68
1895							17.04
1896							18.76
1897							18.83
1898							19.08
1899							19.62
1900	4.63		6.48	6.37			19.74
1901	4.63	(1.7)	6.42	6.18	(8.23)	27.16	20.16
1902	4.67	(1.7)	6.63	6.29	(8.41)	27.70	20.48
1903	4.62	(1.7)	6.47	6.55	8.50	27.84	20.35
1904	5.15	(1.7)	7.43	7.38	6.58	28.24	20.75
1905	5.00	(1.7)	6.83	7.36	7.65	28.54	20.78
1906	4.96	(1.7)	7.06	7.10	7.97	28.79	20.47
1907	4.89	(1.7)	6.78	6.52	7.78	27.67	20.48
1908	4.89	(1.7)	6.98	6.64	8.13	28.34	20.60
1909	4.88	1.72	7.07	6.55	8.72	28.94	21.32
1910	4.94	1.66	7.25	6.87	9.22	29.94	21.87
1911	4.96	1.60	7.50	7.16	10.14	31.36	21.82
1912	4.86	1.56	7.52	6.85	9.37	30.16	21.22
1913	5.00	1.54	7.81	6.78	9.59	30.72	21.61
1914	5.04	1.51	8.12	7.17	10.01	31.85	
1912	4.70	(1.6)	7.23	7.25	9.94	30.72	
1916	4.96	(1.6)	8.40	7.79	12.77	35.52	
1917	4.92	(1.6)	(8.02)	7.58	9.00	31.12	

Annual average growth rates

1846-83	-0.3%		+2.1%	+0.2%			
1883-1900	+0.5%		+0.9%	+0.1%			+0.8%
1901-14	+0.7%		+2.0%	+1.2%	+1.7%	+1.3%	+0.8%
1909-14	+0.7%	-2.4%	+3.0%	+1.9%	+3.0%	+2.0%	

Numbers of cattle held by the rural population in mlns.

Year	NCR	SCR	SPR	CPR	EPR	USSR	50 gub.
1847/50	7.07		(9.42)	6.16			
1851/60	6.36		(8.38)	5.36			
1859/64							20.97
1881							22.12
1882							21.73
1883	5.96		(10.30)	5.61			23.19
1887							23.07
1888				6.48			24.91
1890							25.53
1891				6.22			25.32
1892				5.28			23.97
1894							24.07
1895							24.52
1896							29.55
1897							30.71
1898							30.15
1899							30.94
1900	8.49		(14.30)	8.15			31.66
1901	7.87	(4.2)	12.74	7.45	8.78	41.04	31.90
1902	7.96	(4.2)	12.76	7.60	9.47	41.97	32.18
1903	7.65	(4.2)	12.69	7.86	9.60	42.0	31.84
1904	8.02	(4.2)	11.32	7.89	8.04	39.47	31.87
1905	8.71	(4.2)	12.77	9.75	9.79	44.72	31.19
1906	8.72	(4.2)	12.54	8.90	9.94	40.10	30.51
1907	8.57	(4.2)	13.04	7.50	10.09	43.40	29.68
1908	8.43	(4.2)	12.61	7.73	10.21	43.18	29.69
1909	8.40	4.19	11.38	7.87	10.44	42.28	30.49
1910	8.60	4.37	11.51	8.26	11.59	44.33	31.31
1911	8.60	4.26	11.64	8.65	12.29	45.44	31.02
1912	8.65	4.49	11.67	7.99	10.74	43.54	30.92
1913	9.06	4.27	12.01	8.02	11.65	45.01	32.03
1914	8.88	4.07	12.16	8.44	12.39	45.94	
1916	9.74	(4.0)	13.66	11.59	17.36	56.35	
1917	(9.86)	(4.0)	(13.67)	10.69	(12.95)	(51.17)	
Annual average growth							
1846-83	-0.3%		+0.2%	-0.2%			
1883-1900	+2.7%		+2.4%	+2.8%			
1901-14	+0.4%		-0.4%	+1.0%	+3.2%	+0.9%	
1909-14			-0.6%				

Numbers of pigs held by the rural population in mlns.

Year	NCR	SCR	SPR	CPR	EPR	USSR	50 gub.
1842/50	2.39		(3.30)	3.10			
1851/60	2.04		(3.53)	2.89			
1859/64							
1881							9.26
1882							8.95
1883	1.68		(3.85)	2.32			9.10
1887							9.72
1888				2.32			9.24
1890							9.55
1891				1.57			9.55
1892				1.14			8.83
1894							8.83
1895							9.19
1896							13.26
1897							12.92
1898							11.98
1899							11.57
1900	2.74		(4.31)	2.34			11.76
1901	2.43	(0.3)	5.05	2.12	1.04	10.94	12.12
1902	2.44	(0.3)	4.62	2.03	0.94	10.33	11.65
1903	2.34	(0.3)	4.65	2.05	1.13	10.47	11.44
1904	2.53	(0.3)	4.64	2.22	1.14	10.83	11.99
1905	2.41	(0.3)	4.40	2.43	1.26	10.80	11.47
1906	2.41	(0.3)	4.20	2.21	1.48	10.60	11.86
1907	2.30	(0.3)	4.41	1.72	1.53	10.26	11.57
1908	2.29	(0.3)	4.24	1.96	1.48	10.27	11.39
1909	2.28	0.30	4.12	1.77	1.64	10.11	11.33
1910	2.28	0.41	4.31	2.01	1.61	10.62	12.05
1911	2.21	0.42	4.58	2.52	1.88	11.61	12.65
1912	2.50	0.36	4.74	1.94	1.43	10.97	10.63
1913	2.56	0.43	5.00	2.05	1.57	11.61	11.1
1914	2.63	0.49	5.13	2.26	1.91	12.42	
1916	3.95	(0.5)	6.97	3.99	4.81	20.22	
1917	4.40	(0.5)	(8.60)	4.96	3.46	(21.92)	
Annual average growth							
1846-83	-0.6%		+0.4%	-0.5%			
1883-1900	+3.9%		+0.7%	+0.1%			
1901-14	+0.6%	+12.7%	+0.1%	+0.5%	+6.4%	+1.0%	

10/ Livestock

b) Post revolutionary

Sources

i) N.D.Kondratiev and N.P.Oganovsky, (ed.) ibid., pp.216-60.

ii) P.I.Popov, EO, 1924, No.23/24, p.LXXII.

iii) A.Gayster (ed.) Osnovniye elementyi..., M.1930, pp.90-107

iV) Trudy TsSU, Tom XVIII, M.1923, pp.136-9

v) Abrege des donnees statistiques de l'URSS, M.1925, pp.73-6

vi) Statisticheskii Spravochnik SSSR za 1928g., M.1929

vii) Zhivotnovodstvo SSSR v tsifrakh, M.1932, pp6-17

Sel.Khoz. SSSR 1935, M.1936, pp.513-9.

viii) Zhivotnovodstvo SSSR za 1916-38g.M.1939,

Horses in millions from N.D. Kondratiev and N.P. Oganovsky (eds.), ibid, M.1923, pp. 207-218, from military horse censuses

	1891-1900	1901-1906	1912	1916	1917	1920	1921
1. NCR							
Severnyi	0.289	0.318	0.298	0.358	0.364	0.340	0.357
Priozernyi	0.718	0.762	0.702	0.748	0.764	0.708	0.740
Tsent Prom.	1.493	1.866	1.435	1.430	1.461	1.353	1.305
Beloruskii	1.081	1.061	1.027	1.090	1.040	0.991	1.074
1. All NCR	3.581	4.007	3.462	3.626	3.629	3.392	3.476
2. SCR							
3. SPR							
Yugo Zapadnyi	1.489	1.413	1.377	1.565	0.823	-	-
Malorossiisk	4.502	1.419	1.442	1.794	1.770	-	-
Novorossiisk	1.809	1.766	3.058	6.745	2.386	4.327	4.528
Sev. Kavkoz	0.732	0.615	1.434	1.758		1.330	1.234
3. All SPR							
4. CPR							
Tsent Zemled	2.751	3.365	3.189	3.342	3.365	2.289	2.146
Nizh. Volzhskii	1.184	1.373	1.526	1.685	1.628	1.208	0.984
Sred. Volzhskii	2.324	2.957	2.829	3.068	3.091	2.688	2.330
4. All CPR							
5. EPR							
Urals	1.648	1.752	1.628	1.826	1.735	1.519	1.482
Sibir			3.932	4.888	4.774	4.481	4.694
Steppe Krai			2.773	4.084	2.367	2.818	2.796
5. All EPR							
All USSR			26.649	31.022	28.853	24.059	23.670

	Horses				Cattle				Pigs			
	1916	1922	1923	1924	1916	1922	1923	1924	1916	1922	1923	1924
NCR												
Consumer R	4.676	4.573	4.738	4.972	9.344	9.684	10.035	10.764	4.118	3.613	3.335	4.424
SPR												
UkSSR	5,557	4.110	3.801	3,927	7,018	7.531	7.431	8.419	4.681	2.647	2.388	4.374
Yugo-Vostok	2.364	1.112	1.111	1.137	4.968	2.865	3.065	3.362	1.890	0.360	0.507	1.090
All SPR	7,921	5.222	4.912	5.064	11.986	10.396	10.496	11.781	6.571	3.007	2.955	5.464
CPR												
Producer R	11.378	5.546	6.087	6,968	17.671	9.367	12.084	15.134	6.077	1.114	1.901	5.214
EPR												
Sibir	3.786	3.483	2.983	3.295	5.098	3,475	3.613	4.608	2.017	0.220	0.861	1.480
Kirgiz SSR	3.546	1.342	1.336	1.624	5.284	2.123	2.377	3.348	0.491	0.108	0.091	0.180
All EPR	7.332	4.825	4.319	4.919	10.382	5.598	5.990	7.956	2.508	0.828	0.952	1.660
All USSR	31.307	20.166	20.058	21.924	50.284	35.045	38.604	45.635	19.274	8.561	9.143	16.761

Source: P.I.Popov, EO., 1924, no.23/24, p.LXXII.

Regional data on horses with and without corrections from Osnovniye elementyi

	1916			No Correction				Corrected			
	All	Peasant	1923	1924	1925	1926	1927	1924	1925	1926	1927
1. NCR											
Severnyi	0.379	0.377	0.370	0.397	0.423	0.433	0.434	0.399	0.423	0.433	0.434
Leningrad Kar.	0.776	0.752	0.819	0.851	0.900	0.937	0.954	0.873	0.905	0.934	0.959
Zapadnyi	0.866	0.833	0.865	0.906	1.002	1.001	1.001	0.932	1.002	1.001	1.001
Tsent. Prom.	2.459	2.342	2.279	2.508	2.633	2.677	2.720	2.534	2.633	2.677	2.720
BSSR	0.911	0.858	0.854	0.897	0.993	1.029	1.052	0.966	1.018	1.054	1.078
1. All NCR	5.391	5.162	5.187	5.559	5.951	6.077	6.161	5.704	5.981	6.099	6.192
2. SCR											
ZSFSR	0.315	0.300	0.272	0.272	0.280	0.289	0.293	0.272	0.280	0.289	0.293
Uzbch SSR	0.567	0.567	0.335	0.335	0.350	0.430	0.495	0.335	0.350	0.430	0.495
Turk. SSR	0.107	0.107	0.057	0.057	0.060	0.070	0.071	0.057	0.060	0.070	0.071
2. All SCR	0.989	0.974	0.664	0.664	0.690	0.789	0.859	0.664	0.690	0.789	0.859
3. SPR											
UkSSR	5.464	4.877	3.758	3.958	4.121	4.583	5.003	3.958	4.121	4.583	5.003
Krym ASSR	0.193	0.167	0.063	0.063	0.088	0.101	0.148	0.068	0.088	0.101	0.148
Sev. Kavkoz	2.379	2.206	1.141	1.161	1.309	1.427	1.576	1.172	1.309	1.427	1.576
Dag. ASSR	0.063	0.063	0.049	0.047	0.060	0.066	0.062	0.053	0.060	0.066	0.062
3. All SPR	8.099	7.313	5.011	5.229	5.578	6.177	6.784	5.251	5.578	6.177	6.789
4. CPR											
Tsent Chernozem	2.256	2.103	1.227	1.468	1.444	1.566	1.745	1.466	1.444	1.566	1.745
Nizhne Volzhskii	1.491	1.435	0.608	0.663	0.644	0.738	0.836	0.651	0.644	0.738	0.836
Sredne Volzhskii	1.849	1.764	0.813	0.971	0.977	1.134	1.289	0.991	0.977	1.134	1.289
Bashkir	1.241	1.220	0.430	0.544	0.669	0.742	0.802	0.529	0.669	0.742	0.802
Tatar Chuvsk.	0.778	0.756	0.351	0.439	0.547	0.605	0.651	0.448	0.547	0.605	0.651
Vyatskii	0.721	0.718	0.496	0.559	0.633	0.710	0.747	0.584	0.633	0.710	0.747
4. All CPR	8.336	7.996	3.925	4.644	4.914	5.495	6.070	4.669	4.914	5.495	6.070
5. EPR											
Urals	2.371	2.350	1.349	1.566	1.805	1.947	2.086	1.753	1.805	1.947	2.086
Sibirskii	4.234	4.209	2.993	3.358	3.398	3.590	3.850	3.347	3.398	3.590	3.850
Bur. Mong.	0.235	0.235	0.200	0.236	0.254	0.268	0.298	0.269	0.254	0.268	0.298
Yakut	0.127	0.127	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
Dalne Vost Krai	0.602	0.599	0.502	0.534	0.547	0.574	0.594	0.553	0.547	0.574	0.594
Kazak ASSR	4.633	4.633	1.693	2.011	2.736	2.746	3.223	2.039	2.372	2.746	3.223
Kirgiz ASSR	0.757	0.757	0.268	0.298	0.326	0.492	0.506	0.311	0.354	0.492	0.506
5. All EPR	12.959	12.910	7.117	8.115	9.178	9.729	10.669	8.384	8.842	9.729	10.669
[illegible]	25.771	24.354	21.902	24.210	26.311	28.268	30.547	24.669	26.005	28.290	30.578

Regional data on cattle with and without corrections from Osnovniye elementyi

	1916		No Correction					Corrected			
	All	Peasant	1923	1924	1925	1926	1927	1924	1925	1926	1927
1. NCR											
Severnyi	1.055	1.051	0.966	1.071	1.244	1.229	1.138	1.107	1.244	1.229	1.138
Leningrad Kar.	1.992	1.919	2.099	2.104	2.269	2.243	2.269	2.198	2.281	2.253	2.275
Zapadnyi	1.143	1.076	1.312	1.342	1.482	1.376	1.295	1.370	1.482	1.376	1.295
Tsent. Prom.	4.455	4.284	4.965	5.656	5.582	4.928	4.646	5.795	5.562	4.928	4.646
BSSR	1.585	1.489	1.631	1.739	1.939	2.028	2.119	2.031	2.163	2.236	2.228
1. All NCR	10.230	9.819	10.973	11.912	12.516	11.804	11.467	12.501	12.732	12.022	11.582
2. SCR											
ZSFSR	3.578	3.490	3.193	3.193	3.330	3.474	3.513	3.193	3.330	3.474	3.513
Uzbch SSR	2.634	2.634	1.352	1.352	1.477	1.594	1.914	1.352	1.477	1.594	1.914
Turk. SSR	0.337	0.337	0.178	0.178	0.195	0.274	0.301	0.178	0.195	0.274	0.301
2. All SCR	6.549	6.461	4.723	4.723	5.002	5.342	5.725	4.723	5.002	5.342	5.728
3. SPR											
UkSSR	7.702	6.920	7.288	8.259	8.122	8.304	8.298	8.259	8.122	8.304	8.298
Krym ASSR	0.205	0.165	0.111	0.158	0.221	0.246	0.296	0.184	0.232	0.256	0.305
Sev. Kavkoz	4.466	4.135	3.205	3.565	4.118	4.588	4.885	3.900	4.323	4.771	5.031
Dag. ASSR	0.401	0.401	0.364	0.425	0.474	0.553	0.675	0.479	0.498	0.575	0.695
3. All SPR	12.774	11.621	10.968	12.407	12.935	13.961	14.154	12.822	13.175	13.906	14.329
4. CPR											
Tsent Chernozem	2.892	2.703	2.731	3.278	2.984	3.191	3.372	3.393	3.133	3.318	3.473
Nizhne Volzhsk	3.140	3.000	2.189	2.463	2.535	2.920	3.173	2.660	2.662	3.036	3.268
Sredne Volzhsk	2.476	2.322	1.482	1.912	1.327	1.399	1.391	1.197	1.393	1.455	1.433
Bashkir	1.523	1.696	0.753	1.049	1.372	1.399	1.391	1.197	1.393	1.455	1.433
Tatar Chuvsk	0.990	0.961	0.518	0.815	0.993	1.005	1.032	0.897	1.042	1.046	1.063
Vyatskii	1.440	1.435	0.860	1.145	1.371	1.425	1.390	1.328	1.439	1.482	1.432
4. All CPR	12.461	11.917	8.533	10.662	11.239	12.216	12.868	11.574	11.799	12.704	13.254
5. EPR											
Urals	4.016	3.982	2.137	3.047	3.617	3.753	3.837	3.544	3.798	3.903	3.952
Sibirskii	5.894	5.822	3.684	4.710	5.190	5,838	6.354	4.912	5.449	6.071	6.545
Bur. Mong.	0.686	0.686	0.481	0.621	0.668	0.805	0.956	0.657	0.701	0.838	0.983
Yakut	0.479	0.479	0.457	0.457	0.457	0.457	0.457	0.480	0.480	0.480	0.488
Dalne Vost Krai	0.988	0.978	0.822	0.905	0.948	1.015	1,082	0.866	0.996	1.055	1.114
Kazak ASSR	5.897	5.897	3.031	3.771	5.120	5,855	7.086	4.216	5.031	6.089	7.299
Kirgiz ASSR	0.590	0.590	0.347	0.370	0.423	0.592	0.666	0.393	0.464	0.616	0.686
5. All EPR	18.550	18.434	10.959	13.881	16.423	18.315	20.438	15.068	16.919	19.052	21.067
All USSR	60.563	58.252	46.156	53.552	58.115	61.366	64.653	56.688	59.630	63.025	65.952

Regional data on pigs with and without correction from Osnovniye elementyi

	1916		No Correction					Corrected			
	All	Peasant	1923	1924	1925	1926	1927	1924	1925	1926	1927
1. NCR											
Severnyi	0.086	0.086	6.054	0.099	0.135	0.137	0.132	0.116	0.162	0.171	0.158
Leningrad Kar.	0.366	0.352	0.360	0.386	0.520	0.463	0.431	0.475	0.626	0.580	0.519
Zapadnyi	1.085	1.063	0.825	1.082	1.229	1.138	1.086	1.383	1.475	1.423	1.303
Tsent. Prom.	1.229	1.177	0.876	1.377	1.080	1.277	2.290	1.652	1.350	1.532	
BSSR	1.838	1.792	1.304	1.508	1.824	2.601	2.209	1.965	2.267	2.476	2.505
1. All NCR	4.604	4.470	3.419	4.951	5.085	4.819	5.135	6.229	6.182	6.000	6.017
2. SCR											
ZSFSR	0.495	0.488	0.343	0.343	0.377	0.415	0.397	0.343	0.377	0.415	0.397
Uzbek SSR	0.003	0.003	0.005	0.005	0.005	0.003	0.004	0.005	0.005	0.003	0.004
Turk. SSR	–	–	–	–	–	–	–	–	–	–	–
2. All SCR	0.498	0.491	0.348	0.348	0.382	0.418	0.401	0.348	0.382	0.418	0.401
3. SPR											
UkSSR	4.626	4.289	2.345	4.277	3.691	3.632	4.370	5.133	4.429	4.540	5.244
Krym ASSR	0.084	0.071	0.017	0.046	0.040	0.052	0.074	0.060	0.048	0.065	0.089
Sev. Kavkoz.	1.972	1.902	0.637	1.219	1.011	1.203	1.336	1.373	1.213	1.504	1.603
Dag. ASSR	0.019	0.019	0.009	0.023	0.014	0.012	0.014	0.010	0.017	0.015	0.017
3. All SPR	6.701	6.281	3.008	5.565	4.756	4.899	5.794	6.576	5.707	6.124	6.953
4. CPR											
Tsent Chernozem	1.293	1.179	0.556	1.476	0.464	0.682	0.966	1.666	0.557	0.853	1.135
Nizhne Volzhsk	0.846	0.810	0.209	0.558	0.293	0.577	0.704	0.665	0.352	0.721	0.845
Sredne Bolzhsk	0.646	0.613	0.144	0.489	0.361	0.301	0.423	0.627	0.433	0.377	0.508
Bashkir	0.404	0.399	0.083	0.298	0.485	0.236	0.190	0.389	0.582	0.295	0.227
Tatar Chuvash	0.480	0.471	0.092	0.285	0.430	0.240	0.236	0.365	0.516	0.300	0.283
Vyatskii	0.709	0.707	0.196	0.478	0.926	0.641	0.597	0.624	1.112	0.801	0.716
4. All CPR	4.378	4.179	1.280	3.584	2.959	2.677	3.096	4.336	3.552	3.347	3.714

Regional data on pigs with and without correction from Osnovniye elementyi (continued)

	1916		No Correction					Corrected			
	All	Peasant	1923	1924	1925	1926	1927	1924	1925	1926	1927
5. EPR											
Urals	1.426	1.420	0.350	0.862	1.407	0.951	0.922	1.235	1.689	1.189	1.106
Sibirskii	2.262	2.256	0.876	1.538	1.918	2.104	2.352	1.794	2.301	2.630	2.822
Bur. Mong.	0.078	0.078	0.043	0.071	0.100	0.099	0.133	0.073	0.119	0.124	0.160
Yakut	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Dalne Vost Krai	0.563	0.562	0.281	0.373	0.457	0.508	0.608	0.363	0.548	0.635	0.730
Kazak ASSR	0.338	0.338	0.132	0.232	0.345	0.333	0.424	0.312	0.403	0.416	0.509
Kirgiz ASSR	0.028	0.028	0.019	0.038	0.042	0.030	0.028	0.042	0.055	0.037	0.034
5. All EPR	4.696	4.683	1.702	3.115	4.270	4.026	4.468	3.820	5.116	5.032	5.362
All USSR	20.875	20.098	9.755	17.560	17.450	16.840	18.892	21.309	20.939	20.921	22.445

Horses, cattle and pigs in mlns. from Trudy TsSU, Tom XVIII, M.1923, pp. 136-139

	Horses				Cattle				Pigs			
	1916	1920	1921	1922	1916	1920	1921	1922	1916	1920	1921	1922
1. NCR												
Krainyi Sever	0.358	0.339	0.349	0.343	1.001	0.722	0.793	0.816	0.090	0.061	0.085	0.082
Priozernyi	0.731	0.698	0.723	0.756	1.888	1.645	1.839	2.018	0.301	0.225	0.262	0.340
Mosk. Prom.	1.420	1.293	1.288	1.335	3.084	2.665	2.844	3.039	0.471	0.108	0.163	0.169
Belorusskii	1.447	1.363	1.389	1.481	2.396	2.411	2.420	2.718	2.482	2.149	1.872	2.125
1. All NCR	3.956	3.693	3.749	3.915	8.369	7.443	7.898	8.591	3.344	2.543	2.382	2.716
2. SCR												
3. SPR												
UkSSR	5.971	5.409	5.416	4.206	8.337	8.087	8.092	7.465	5.113	4.648	4.630	2.759
Yugo Vostok	2.862	1.742	1.598	0.963	6.111	3.869	3.651	2.849	2.329	1.544	1.190	0.252
3. All SPR	8.833	7.151	7.014	5.169	14.448	11.956	11.743	10.314	7.442	6.192	5.820	3.011
4. CPR												
Tsent Zemled.	3.953	2.744	2.340	2.196	6.198	3.792	3.854	3.850	2.394	1.329	0.870	0.592
Nizhne Volzhskii	3.164	2.375	1.581	1.061	5.043	3.388	2.577	2.135	1.248	0.843	0.294	0.079
Sredne Volzhskii												
4. All CPR	7.117	5.119	3.921	3.257	10.241	7.180	6.431	5.985	3.742	2.172	1.164	0.671
5. EPR												
Urals	4.039	2.993	2.736	1.705	6.114	3.910	3.681	2.584	2.044	1.235	1.057	0.288
Zap. Sibir	3.796	3.799	3.668	2.903	5.625	4.334	3.910	2.912	2.180	1.830	1.340	0.590
Vost Sibir	0.902	0.926	0.924	0.777	1.361	1.245	1.162	0.880	0.570	0.438	0.468	0.251
Steppe Krai	2.865	1.731	1.319	1.151	3.807	3.032	1.996	1.766	0.357	0.421	0.260	0.111
5. All EPR	11.602	9.449	8.647	6.536	16.907	12.521	10.749	8.142	5.151	3.924	3.125	1.240
All USSR Less SCR	31.506	25.412	23.331	18.875	49.966	39.101	36.818	33.031	19.587	14.830	12.491	7.637

Regional livestock numbers in millions 1916, 1923-1925

	Horses				Long horned cattle				Pigs			
	1916	1923	1924	1925	1916	1923	1924	1925	1916	1923	1924	1925
1. NCR												
a) Nord extreme	0.124	0.123	0.130	0.138	0.341	0.355	0.365	0.403	0.004	0.003	0.008	0.013
Nord	0.286	0.285	0.302	0.322	0.815	0.718	0.801	1.009	0.083	0.053	0.086	0.125
Nord ouest	0.733	0.812	0.828	0.866	1.839	2.023	1.998	2.136	0.353	0.359	0.385	0.516
a) Ouest	1.011	1.021	1.057	1.150	1.383	1.562	1.608	1.739	1.340	1.046	1.324	1.462
	2.154	2.241	2.317	2.476	4.378	4.658	4.772	5.287	1.780	1.461	1.803	2.116
b) Reg. Ind. Moscow	1.708	1.815	1.875	2.016	3.422	4.062	4.456	4.450	0.725	0.660	1.264	1.159
c) BSSR	0.783	0.767	0.781	0.876	1.367	1.460	1.538	1.735	1.605	1.162	1.358	1.662
1. All NCR	4.65	4.82	4.97	5.37	9.17	10.18	10.77	11.47	4.11	3.28	4.43	4.94
2. SCR												
a) ZSFSR	-	-	0.194	-	-	-	2.364	-	-	-	0.383	-
b) Turkstan	-	-	0.782	-	-	-	1.460	-	-	-	0.086	-
2. All SCR			0.976				3.82				0.469	
3. SPR												
a) UkSSR	5.362	3.736	3.883	4.053	7.449	7.215	8.217	7.824	4.516	2.292	4.323	3.620
Crim ASSR	0.193	0.045	0.063	0.082	0.205	0.110	0.158	0.202	0.084	0.016	0.046	0.037
b) Cauc. Nord	2.340	1.159	1.181	1.330	4.882	3.237	3.564	4.182	1.905	0.587	1.141	1.014
3. All SPR	7.895	4.94	5.13	5.47	12.54	10.56	11.94	12.21	6.51	2.90	5.51	4.67
4. CPR												
a) Reg. C. Agri.	3.572	2.230	2.541	2.401	4.631	4.485	5.212	4.640	2.022	0.893	2.384	0.806
b) Volga												
Bouchedu Volga	0.138	0.054	0.055	0.057	0.501	0.332	0.367	0.384	0.023	0.021	0.027	0.025
Volga	2.483	1.048	1.180	1.293	4.000	2.758	3.223	2.690	1.139	0.248	0.762	0.546
Volga Kama	1.526	0.918	0.981	1.160	2.455	1.480	1.931	2.336	1.191	0.259	0.750	1.350
Bashkir ASSR	1.257	0.469	0.541	0.642	1.549	0.820	1.044	1.290	0.411	0.089	0.295	0.469
b)	5.404	2.489	2.757	3.152	8.505	5.390	6.565	7.700	2.764	0.617	1.834	2.390
4. All CPR	8.98	4.72	5.30	5.55	13.14	9.88	11.78	12.34	4.79	1.51	4.22	3.196

Cont'd...

Regional livestock numbers in millions 1916, 1923-1925 (cont'd)

	Horses				Long horned cattle				Pigs			
	1916	1923	1924	1925	1916	1923	1924	1925	1916	1923	1924	1925
5. EPR												
a) Urals	2.220	1.578	1.696	1.843	3.707	2.426	3.238	3.652	1.241	0.417	0.973	1.399
b) Siberia and Dalvot	4.447	3.932	4.162	4.168	6.518	5.610	6.532	6.563	2.468	1.190	1.898	1.986
c) Kergezan	3.361	1.424	1.624	1.786	5.011	7.616	3.348	3.683	0.368	0.101	0.180	0.216
5. All EPR	10.03	6.93	7.482	7.797	15.652	10.652	13.118	13.898	4.127	1.708	3.051	3.595
All USSR			23.85				51.42				17.67	
All USSR - SCR	31.54	21.41	22.88	24.18	50.07	41.27	47.60	49.92	19.53	9.39	17.20	16.40

Source: Abrege des donnees statistique de l'URSS, M.1925, pp. 73-76

Regional livestock numbers in millions at Winter count 1925-1928

	Horses				Long horned cattle			
	1925	1926	1927	1928	1925	1926	1927	1928
1. NCR								
Sev v	0.423	0.433	0.434	0.466	1.244	1.229	1.138	1.219
Len ok.	0.905	0.934	0.959	0.954	2.281	2.253	2.275	2.285
Zap	1.002	1.001	1.001	1.018	1.482	1.376	1.295	1.390
Tsent Prom	2.633	2.677	2.72	2.77	5.562	4.928	4.646	5.217
BSSR	1.018	1.054	1.078	1.072	2.163	2.236	2.228	2.154
1. All NCR	5.98	6.09	6.19	6.28	12.73	12.02	11.58	12.27
2. SCR								
ZSFSR	0.280	0.289	0.293	0.293	3.330	3.474	3.513	3.513
Uzb	0.350	0.430	0.495	0.506	0.303	0.351	0.424	0.432
Tadzh	0.060	0.070	0.071	0.071	0.195	0.274	0.301	0.301
Kirq	0.354	0.492	0.506	0.515	0.464	0.616	0.686	0.624
2. All SCR	1.04	1.28	1.37	1.39	4.29	4.72	4.92	4.87
3. SPR								
Ukr	4.121	4.583	5.003	5.378	8.122	8.304	8.298	8.476
Crim	0.088	0.101	0.148	0.153	0.232	0.256	0.305	0.237
N. Cauc.	1.309	1.427	1.576	1.721	4.324	4.771	5.031	5.101
Dag	0.06	0.066	0.062	0.07	0.498	0.575	0.695	0.719
3. All SPR	5.58	6.13	6.79	7.32	13.18	13.91	14.33	14.53
4. CPR								
TsChZ	1.444	1.566	1.745	1.866	3.133	3.318	3.473	3.619
1. Volga	0.644	0.738	0.836	0.903	2.662	3.036	3.268	3.385
C. Volga	1.525	1.739	1.940	2.076	3.173	3.413	3.648	3.935
Bashkir	0.67	0.742	0.802	0.863	1.393	1.455	1.433	1.523
Vyatka	0.633	0.710	0.747	0.755	1.439	1.482	1.432	1.324
4. All CPR	4.92	5.5	6.07	6.46	11.8	12.7	13.25	13.79
5. EPR								
Urals	1.805	1.947	2.086	2.156	3.798	3.903	3.952	3.710
Siberia	3.398	3.590	3.85	4.031	5.449	6.071	6.545	6.662
Bur M	0.254	0.268	0.298	0.334	0.701	0.838	0.935	1.149
Yak	0.112	0.112	0.112	0.112	0.48	0.48	0.48	0.48
F.E	0.547	0.574	0.594	0.612	0.996	1.055	1.114	1.116
Kaz	2.372	2.746	3.223	3.283	5.031	6.089	7.299	6.647
5. All EPR	8.49	9.24	10.16	10.53	16.46	18.44	20.38	19.76
All USSR	26.01	28.29	30.58	31.98	59.63	63.03	65.95	66.79

Source: Stat. Spravochnik SSSR za 1928g, M.1929, p.

Regional livestock numbers in millions of winter count 1925-1928

	Pigs				Sheep and goats			
	1925	1926	1927	1928	1925	1926	1927	1928
1. NCR								
a) Severny R.	0.162	0.171	0.158	0.184	1.478	1.446	1.297	1.475
Leningrad Ob.	0.626	0.580	0.519	0.561	2.525	2.761	3.045	3.050
Zapadnyi Ob.	1.475	1.423	1.303	1.409	4.200	3.638	3.647	3.76
b) Tsent Prom	1.652	1.350	1.532	1.852	12.528	11.67	10.813	11.087
c) BSSR	2.267	2.476	2.505	2.329	3.415	3.368	3.632	3.809
1. All NCR	6.18	6.00	6.02	6.34	24.15	22.88	22.44	23.18
2. SCR								
a) ZSFSR	0.377	0.415	0.397	0.397	5.299	5.619	6.159	6.159
b) Uzb SSR	0.005	0.063	0.004	0.005	4.944	5.165	6.503	7.238
Tadzh SSR	-	-	-	-	2.408	3.027	4.102	3.677
Kirq SSR	0.055	0.037	0.034	0.029	3.337	3.668	3.913	3.795
2. All SCR	0.44	0.46	0.44	0.43	15.99	17.48	20.68	20.87
3. SPR								
a) Ukr SSR	4.429	4.54	5.244	6.902	10.166	9.482	8.211	7.985
Krym ASSR	0.048	0.065	0.089	0.053	0.628	0.708	1.002	0.865
b) Sev Kavkaz	k.213	1.504	1.603	1.349	5.235	5.325	5.915	5.874
Dag ASSR	0.017	0.015	0.017	0.012	2.634	2.723	2.573	2.986
3. All SPR	5.71	6.12	6.95	8.32	18.66	18.24	17.7	17.71
4. CPR								
a) C.Chernozem	0.557	0.853	1.135	1.962	6.575	7.662	7.874	9.17
b) Nizh Volzhsk	0.352	0.721	0.845	0.844	4.260	4.723	5.149	5.941
Sred Volzhsk	0.949	0.676	0.791	0.913	7.783	8.726	9.206	9.841
Bashkir ASSR	0.582	0.295	0.227	0.268	2.525	2.734	2.871	3.145
Vyatka R.	1.112	0.801	0.716	0.676	2.351	3.521	3.492	3.325
4. All CPR	3.55	3.35	3.71	4.66	24.49	27.37	28.59	31.42
5. EPR								
a) Urals	1.689	1.189	1.106	1.124	4.502	5.09	5.105	5.218
b) Sib.Krai	2.301	2.63	2.82	2.976	9.741	10.883	11.844	12.702
BaryatMon ASSR	0.119	0.124	0.16	0.191	0.842	0.994	1.291	1.666
Yak ASSR	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Del.Vost Krai	0.518	0.635	0.73	0.766	1.006	1.153	1.238	1.444
Kaz ASSR	0.403	0.416	0.509	0.432	16.422	19.012	22.451	21.777
5. All EPR	5.03	5.00	5.33	5.49	32.51	37.13	41.93	42.81
All USSR	20.94	20.92	22.45	25.23	115.80	123.10	131.34	136.19

Source: Stat. Spravochnik SSSR, za 1928g, M.1929, pp.

Regional livestock numbers in millions at summer count 1927-1934.

	Horses							
	1927	1928	1929	1930	1931	1932	1933	1934
1. NCR								
a) Sev Krai	458	470.8	487.6	487.0	449.2	390.6	359.0	352.4
Leningrad Ob.	808	733.1	690.9	660.3	621.8	543.2	522.1	510.7
Kap Ob.	-	45.3	46.0	44.9	40.9	39.8	35.2	40.3
Zap Ob.	1545	1578.2	1575.9	1426.1	1290.5	1069.0	1056.1	905.4
total N & NW	2810	2827.4	2800.4	2618.3	2402.4	2042.6	1972.4	1808.8
b) Mosk	1412	1436.4	1443.8	1294.3	1111.1	964.4	905.1	895.0
Ivan	634	632.3	623.5	581.8	519.1	432.5	404.3	406.9
Gorky	(1295)	(1332.5)	(1362.3)	(1232.6)	(1117.2)	985.3	961.9	939.7
30%	389	399.8	408.0	370.0	335.1	296.0	289.0	282
total ind.	2435	2468	2477	2246	1965	1893	1598	1584
c) BSSR	1089	1079.4	1066.0	1007.1	883.7	824.7	783.0	713.0
1. All NCR	6.33	6.37	6.34	5.87	5.25	4.56	4.35	4.11
2. SCR								
a) ZSFSR	314	324.4	339.2	347.7	358.5	366.7	385.4	373.3
b) Central Asia	650	675.3	688.0	697.3	638.8	520.4	491.1	433.7
Kirqizi	537	660.8	758.0	674.6	616.0	494.5	386.9	310.6
2. All SCR	1.50	1.66	1.79	1.72	1.61	1.38	1.26	1.13
3. SPR								
a) UkSSR	5075	5486.9	5607.5	5308.2	4781.3	3658.9	2604.8	2546.9
b) Sev Kavk.	1619	1875.1	2026.0	1837.7	1516.1	1145.3	856.1	834.4
Krim ASSR	152	149.9	149.3	141.9	126.7	94.9	84.3	82.2
3. All SPR	6.91	7.51	7.78	7.29	6.42	4.90	3.55	3.46
4. CPR								
a) TsChZ	1824	1956.7	2062.9	1832.9	1756.1	1414.0	1092.4	969.0
b) Sred Volzhsk	1336	1445.3	1593.4	1265.8	1137.5	837.3	736.8	632.4
Nizh Volzhsk	828	910.0	1023.8	944.2	826.9	493.7	385.1	329.7
Talor ASSR	492	517.1	543.1	440.8	449.1	337.7	352.4	356.8
Bashkir ASSR	776	842.6	890.5	738.9	741.1	563.9	486.9	455.9
Gorky	(1295)	(1333)	(1362)	(1233)	(1117)	(985)	(962)	(940)
70%	907	933	953	863	782	690	673	658
Volga Region	4339	4.648	5.004	4.253	3.937	2.923	2.634	2.433
4. All CPR	6.16	6.61	7.07	6.09	5.69	4.34	3.73	3.40
5. EPR								
a) Urals	2111	2211.3	2227.3	1696.9	1356.7	953.4	823.6	740.2
b) Zap Sib Kr	3403	3668.5	3526.6	2686.8	2198.0	1591.8	1414.1	1430.1
Vost Sib Kr	1071	1137.2	1254.6	1083.6	936.3	784.9	643.0	607.1
Dal Vost Kr	326	350.5	342.3	258.6	208.4	159.7	145.5	145.0
c) Kazak ASSR	3576	3841.9	4135.1	3366.1	2365.0	770.8	510.9	478.1
5. All EPR	10.49	11.21	11.49	9.07	7.06	4.26	3.54	3.40
All USSR	31.56	33.54	34.64	30.24	26.25	19.64	16.58	15.66

Source: 1927-1930 from Zhivotnovodstvo SSSR v tsifrahh M.1932, pp. 6-17
1928-1934 from Selkhoz SSSR 1935, M.1936, pp.513-519

Regional livestock numbers

	Cows 1927	1928	1929	1930	1931	1932	1933	1934
1. NCR								
a) Sev Krai	764	764.0	771.6	667.7	692.6	605.5	561.5	562.3
Len. Ob.	1180	1073.4	1018.1	921.2	923.6	846.4	788.4	759.4
Kor ASSR		76.5	74.5	68.2	73.3	63.0	60.0	61.4
Zapad R.	1471	1485.5	1506.2	1360.8	1385.5	1220.0	1141.2	1025.1
a) All N & NW	3.415	3399.4	3370.4	3018.9	3075.0	2735.7	2551.1	2408.2
b) Mosk Ob.	1400	1446.1	1474.2	1337.3	1326.7	1297.6	1197.4	1153.0
Ivan Ob.	823	805.8	839.8	794.1	771.2	695.8	684.7	677.1
Gorky Ob.	(1491)	(1483.9)	(1485.5)	(1358.4)	(1316.0)	(1239.3)	(1218.7)	(1167.1)
30%	448	445	446	408	395	372	366	350
b) All Tsent	2.671	2.697	2.760	2.540	2.493	2.366	2.248	2.180
c) BSSR	1.372	1366.0	1341.1	1241.2	1151.0	1060.3	1041.2	954.7
1. All NCR	7.46	7.46	1.47	6.80	6.72	6.16	5.84	5.54
2. SCR								
a) ZSFSR	1142	1174.8	1227.7	1169.1	1189.6	1181.7	1077.4	1106.1
b) Cent. Asia	777	815.1	864.0	893.4	717.4	586.3	539.6	475.4
Kirqizin	242	272.2	285.5	279.1	212.2	184.6	151.6	131.7
2. All SCR	2.16	3.74	3.80	3.49	3.41	3.23	3.10	3.00
3. SPR								
a) UkSSR	3875	3987.0	3873.0	3471.6	3377.0	2739.5	2407.2	2518.0
b) Sev Kavkaz	1606	1932.9	1880.3	1607.8	1454.7	1303.1	1172.6	1215.5
Krym ASSR	114	99.8	89.2	75.3	71.8	72.2	77.0	86.6
3. All SPR	5.60	6.02	5.84	5.15	4.90	4.11	3.66	3.82
4. CPR								
a) C.Ch.Zem	1655	1694.5	1695.7	1533.4	1450.3	1253.5	1105.4	1089.7
b) Sred Volz	1210	1308.1	1365.2	1146.1	1085.4	846.7	744.7	741.0
Nizh Volz	1096	1153.8	1169.9	951.2	884.7	684.6	609.9	625.8
Talir ASSR	454	475.3	479.3	422.1	407.0	356.5	341.1	344.3
Bashkir ASSR	623	661.0	663.3	583.0	546.4	512.7	463.6	471.1
Gorky Ob.	(1419)	(1484)	(1486)	(1358)	(1316)	(1239)	(1219)	(1168)
70%	1044	1039	1040	951	921	867	853	818
Volga R.	4427	4636	4717	4053	3844	3269	3013	3000
4. All CPR	6.08	6.33	6.41	5.59	5.29	4.52	4.12	4.09
5. EPR								
a) Urals	1916	1905.2	1822.4	1493.3	1370.9	1162.8	1175.0	1176.4
b) Zap Sib.	2662	2861.1	2597.8	1978.3	1666.2	1438.4	1493.8	1620.1
Vost Sib.	937	1007.2	1045.9	868.1	699.8	545.8	511.3	540.5
Dal Vost.	193	209.1	192.9	137.2	141.4	128.5	125.2	138.0
c) Kazak ASSR	2499	2458.7	2351.2	2076.2	1240.6	745.1	672.0	741.2
5. All EPR	8.41	8.44	8.01	6.55	5.12	4.02	3.98	4.22
All USSR	29.71	30.74	30.36	26.89	24.41	21.03	19.55	19.56

Cont'd..

Regional livestock numbers (cont'd)

	Other long horned cattle							
	1927	1928	1929	1930	1931	1932	1933	1934
1. NCR								
a) Sev Kr.	478	546.3	464	360.4	426.4	439.9	398.2	533.2
Len. Ob.	715	665.1	433.2	449.4	610.6	511.5	459.1	550.4
Kor ASSR	715	75.3	52.6	41.5	54.7	46.2	38.0	47.7
Zapad R	831	938.0	942.8	652.1	641.5	725.0	721.7	732.2
a) All N & NW	2024	2224.7	1890.6	1503.4	1733.2	1722.6	1617	1863.5
b) Mosk Ob.	796	1085.4	959.6	804.9	870.9	749.4	727.9	881.2
Ivan Ob.	458	632.6	554.2	501.7	612.0	505.1	453.8	613.0
Gorky Ob.	(876)	(881.3)	(910.9)	(678.1)	(833.8)	(738.5)	(714.5)	(1009.4)
30%	263	264	273	203	250	222	215	303
b) All Tsent	1.517	1.982	1.787	1.510	1.733	1.476	1.397	1.979
c) BSSR	0.888	0.852	763.5	539.9	491.3	503.2	524.3	652.1
1. All NCR	4.43	5.06	4.44	3.55	3.96	3.70	3.54	4.31
2. SCR								
a) ZSFSR	2641	2708.1	2780.1	2688.3	2481.0	2296.7	2085.3	2313.4
b) Cent.Asia	1958	2056.2	2154.6	2171.7	1492.7	1065.1	1038.5	925.9
Kirqizia	531	589.5	610.1	527.6	381.2	280.4	234.0	221.4
2. All SCR	5.13	5353.8	5544.8	5387.6	4354.9	3642.2	3357.8	3460.7
3. SPR								
a) UkSSR	4519	4.618	3.738	2.803	2.813	2.267	2.039	2.760
b) SevKavkaz	3489	4.012	3.488	2.443	1.957	1.879	1.740	2.087
3. All SPR	8.21	8.76	7.30	5.30	4.83	4.21	3.85	4.95
4. CPR								
a) C.Ch.Zem	1.963	2.098	1.750	1.125	1.228	1.076	0.950	1.158
b) Sred Volz	1386	1.550	1.514	0.808	0.827	0.596	0.664	0.807
Nizh Volz	2200	2.317	2.359	1.359	1.066	0.878	0.815	0.997
Talir ASSR	0.367	0.414	0.428	0.207	0.274	0.201	0.254	0.357
Bashkir	0.749	0.811	0.838	0.553	0.586	0.484	0.444	0.525
Gorky Ob.	(0.6876)	(0.881)	(0.911)	(0.678)	(0.834)	(0.739)	(0.715)	(1.009)
70%	0.613	0.617	0.638	0.475	0.584	0.517	0.501	0.706
b) Volga R	5.315	5.709	5.777	3.403	3.337	2.676	2.678	3.402
4. All CPR	7.28	7.81	7.53	4.53	4.56	3.75	3.63	4.56
5. EPR								
a) Urals	2.092	1974.1	1788.7	1133.0	1108.4	793.5	803.3	1019.0
b) Zap Sib.	3.165	3394.9	3037.2	1479.0	1337.6	1222.5	1516.9	2005.4
Vost Sib	1.479	1588.2	1621.0	1020.4	887.2	758.8	661.4	760.2
Dal Vost.	0.305	326.5	275.7	142.0	136.6	116.6	110.6	147.9
c) Kazak ASSR	5.222	5222.4	4914.7	2901.8	1989.9	1077.4	1065.4	1350.6
5. All EPR	12.58	12.506	11.637	6.676	5.459	3975.9	4162.6	5283.1
All USSR	38.11	39.80	36.75	25.74	23.50	19.62	18.83	22.88

Regional livestock numbers in thousand and million at summer count 1927-34

Pigs	1927	1928	1929	1930	1931	1932	1933	1934
1. NCR								
a) Sev Krai	193	234	203	-	-	103	127	136
Leningrad Ob.	432	403	173			260	338	509
Kar. ASSR	-	7	5			10	13	19
Zapadnyi Ob.	1828	1939	1727	-	-	1033	1053	659
a) All N & NW	2.453	2.583	2.107			1.406	1.531	1.324
b) Cent Ind. R.								
Mosc. Ob.	969	1164	567	-	-	791	728	953
Ivan Ob.	181	201	111	-	-	121	164	295
Gorky Ob.	(983)	(1018)	(1118)	-	-	(618)	(777)	(943)
30%	295	305	335	-	-	185	233	283
b) All Cent. Ind.	1.445	1.670	1.013			1.077	1.125	1.540
c) BSSR	2.514	2.399	2.149			1.588	1.549	1.543
1. All NCR	6.41	6.65	5.27			4.07	4.21	4.41
2. SCR								
a) ZSFSR	581	597	637	-	-	406	377	651
b) Cent Asia	3	5	6	-	-	19	40	55
Kirq	29	30	43	-	-	27	35	55
2. All SCR	0.61	0.63	0.68	-	-	0.45	0.45	0.76
3. SPR								
a) UkSSR	5297	6963	4161	-	-	2624	2087	4237
Krym	92	53	37	-	-	68	76	148
b) Sev Kavkz.	1623	1412	1245	-	-	754	578	1335
3. All SPR	7.01	8.43	5.44			3.45	2.74	5.72

Cont'd..

Regional livestock numbers in thousands and millions (cont'd)

	Pigs							
	1927	1928	1929	1930	1931	1932	1933	1934
4. CPR								
a) Tsent Chernozem	1184	2067	1018	-	-	709	811	980
b) Volga								
Nizhne Volzhsk	882	855	834	-	-	302	346	563
Sredne Volzhsk	485	537	567			288	422	553
Talir ASSR	177	228	281			113	174	264
Bashkir ASSR	221	264	332			144	155	237
Gorky	(983)	(1018)	(1118)	-	-	(618)	(777)	(943)
70%	688	712	783			433	544	660
b) All Volga	2.453	2.597	2.797			1.280	1.641	2.277
4. All CPR	3.64	4.66	3.81			1.99	2.45	3.26
5. EPR								
a) Urals	1122	1182	1109			390	539	650
b) Siberia								
Zap Sib.Krai	2331	2541	2290			496	965	1556
Vost.Sib. Krai	939	1010	1048			505	404	537
Dal Vost. Krai	471	508	407			163	162	332
c) Kazak ASSR	521	371	319			94	142	239
5. All EPR	5.38	5.61	5.17			1.65	2.21	3.31
All USSR	23.08	25.99	20.38	13.56	14.44	11.61	12.07	17.46

Sources: 1927 from Zhivotnovodstvo SSSR v tsifrakh, M.1937, p. 6-17
1928-1934 from Selkhoz SSSR 1935, M.1936, pp. 513-519

Regional livestock numbers in millions from Zhivotnovodstvo SSSR za 1916-1938, M.1939.

	Horses								
	Summer					1st January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
1. NCR									
a) N & NW									
Arkhangelesh	0.152	0.168	0.136	0.142	0.144	0.134	0.14	0.14	0.14
Volozha Ob.	0.289	0.359	0.259	0.258	0.249	0.244	0.249	0.234	0.222
Leningrad Ob.	0.424	0.514	0.366	0.371	0.357	0.362	0.363	0.336	0.325
Murmansk Ob.									0.005
Smolensk Ob.	0.601	0.746	0.502	0.431	0.438	0.412	0.422	0.406	0.394
Kardca ASSR	0.035	0.045	0.035	0.041	0.041	0.039	0.042	0.042	0.039
Kami ASSR	0.047	0.057	0.046	0.047	0.052	0.044	0.050	0.051	0.054
Kalinia Ob.	0.593	0.818	0.507	0.481	0.471	0.466	0.467	0.43	0.416
Orel Ob	(0.731)	(0.803)	(0.506)	(0.431)	(0.466)	(0.389)	(0.420)	(0.439)	(0.433)
25%	0.183	0.201	0.127	0.108	0.117	0.097	0.105	0.110	0.108
a) All N & NW	2.32	2.91	1.98	1.88	1.87	1.80	1.84	1.75	1.70
b) Cent. Ind.									
Ivanov	0.225	0.300	0.180	0.184	0.171	0.172	0.169	0.148	0.144
Gorky	0.348	0.395	0.301	0.286	0.29	0.264	0.275	0.272	0.273
Moscow	0.293	0.363	0.251	0.247	0.247	0.236	0.236	0.216	0.22
Ryazem	0.493	0.451	0.254	0.267	0.284	0.244	0.259	0.239	0.247
Tula	0.398	0.363	0.237	0.239	0.264	0.221	0.234	0.238	0.239
Yaraslav	0.268	0.333	0.224	0.230	0.221	0.219	0.218	0.197	0.190
b) All Cent. Ind.	2.025	2.205	1.447	1.453	1.477	1.361	1.391	1.33	1.313
c) BSSR	0.903	1.079	0.783	0.707	0.703	0.680	0.686	0.661	0.633
1. All NCR	7.57 5.25	6.19	4.21	4.04	4.05	3.84	3.92	3.74	3.65

Cont'd..

Regional livestock numbers in millions (cont'd)...

	Horses								
	Summer					1st January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
2. SCR									
a) ZSFSR									
Az SSR	0.153	0.182	0.184	0.181	0.187	0.170	0.181	0.184	0.199
Gurg SSR	0.117	0.104	0.150	0.159	0.165	0.152	0.163	0.165	0.168
Arm SSR	0.045	0.038	0.051	0.049	0.049	0.045	0.048	0.049	0.054
a) All ZSFSR	0.315	0.324	0.385	0.389	0.401	0.367	0.392	0.398	0.421
b) Cent. Asia									
Turkmia SSR	0.107	0.089	0.057	0.059	0.062	0.054	0.058	0.061	0.064
Uzbek	0.496	0.550	0.377	0.356	0.371	0.338	0.348	0.359	0.381
Tadzhek SSR	0.116	0.103	0.102	0.089	0.095	0.080	0.087	0.092	0.102
Kirqez ASSR	0.757	0.661	0.387	0.316	0.333	0.278	0.300	0.318	0.362
b) All Cent.Asia	1.476	1.403	0.923	0.82	0.861	0.75	0.793	0.83	0.909
2. All SCR	1.791	1.727	1.308	1.209	1.262	1.117	1.185	1.228	1.33

Cont'd...

Regional livestock numbers in millions (cont'd)

	Horses								
	July					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
3. SPR									
a) Ukr	5.477	5.487	2.601	2.550	2.793	2.415	2.509	2.745	2.937
Crimea	0.193	0.150	0.084	0.076	0.076	0.077	0.072	0.03	0.082
a) All Ukr	5.67	5.637	2.685	2.626	2.869	2.492	2.581	2.818	3.019
b) N. Cauc.									
Krasnoder	0.957	0.736	0.253	0.274	0.296	0.253	0.270	0.294	0.317
Ordzh	0.612	0.453	0.188	0.193	0.212	0.173	0.190	0.210	0.233
Roslov	0.754	0.367	0.187	0.175	0.200	0.160	0.175	0.198	0.223
Kabor Balk	0.074	0.068	0.054	0.058	0.060	0.050	0.055	0.060	0.066
N. Oseth	0.032	0.042	0.019	0.022	0.022	0.020	0.021	0.021	0.022
Chech Ivgart	0.056	0.074	0.079	0.068	0.062	0.067	0.064	0.058	0.061
Dagasly	0.067	0.056	0.077	0.081	0.082	0.076	0.077	0.076	0.078
b) All N. Cauc.	2.552	1.796	0.857	0.871	0.934	0.799	0.802	0.917	1.00
3. All SPR	8.222	7.453	3.542	3.497	3.803	3291	3.383	3.735	4.019

Cont'd..

Regional livestock numbers in millions (cont'd)

	Horses								
	July					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
4. CPR									
a) TsCh Zem									
Voronezh	0.577	0.484	0.311	0.273	0.300	0.252	0.267	0.277	0.262
Kursk	0.812	0.651	0.379	0.342	0.390	0.306	0.335	0.368	0.367
Orlov	(0.731)	(0.803)	(0.506)	(0.431)	(0.466)	(0.389)	(0.420)	(0.439)	(0.433)
75%	0.548	0.602	0.380	0.323	0.350	0.292	0.315	0.329	0.325
Tambov G.	0.430	0.389	0.170	0.169	0.182	0.157	0.164	0.168	0.151
a) All TsCh Zem	2.367	2.126	1.240	1.107	1.222	1.007	1.081	1.142	1.105
bi) L. Volga									
Stalingrad	0.495	0.312	0.169	0.154	0.172	0.140	0.152	0.169	0.179
Saralov	0.562	0.440	0.125	0.110	0.124	0.101	0.110	0.116	0.116
Gern Vol.	0.168	0.136	0.040	0.028	0.032	0.028	0.028	0.031	0.034
Kalyk.	0.103	0.061	0.032	0.031	0.034	0.028	0.029	0.034	0.041
bi) L. Volga	1.328	0.949	0.366	0.323	0.362	0.297	0.319	0.35	0.37
bii) Cent.Volga									
Kuibysh.	0.710	0.565	0.286	0.225	0.248	0.212	0.22	0.233	0.233
Chkalov	0.839	0.443	0.192	0.156	0.180	0.142	0.157	0.180	0.190
Moskov	0.212	0.203	0.117	0.118	0.118	0.113	0.113	0.109	0.097
Penza	0.363	0.325	0.181	0.182	0.191	0.165	0.175	0.168	0.142
bii) C. Volga	2.124	1.536	0.776	0.681	0.737	0.632	0.665	0.69	0.662
biii)Up Volga									
Kirov	0.437	0.483	0.332	0.309	0.310	0.293	0.299	0.286	0.276
Marvi	0.106	0.101	0.072	0.068	0.068	0.067	0.066	0.064	0.061
Tular	0.593	0.517	0.352	0.359	0.386	0.343	0.350	0.360	0.329
Udmart	0.249	0.232	0.162	0.165	0.177	0.153	0.161	0.159	0.141
Chavazh	0.161	0.164	0.136	0.130	0.139	0.128	0.130	0.132	0.133
Bashkir	1.037	0.803	0.471	0.467	0.511	0.426	0.460	0.479	0.459
biii) Up.Vol.	2.583	2.3	1.525	1.498	1.591	1.41	1.466	1.48	1.399
b) All Volga	6.035	4.785	2.667	2.502	2.690	2.339	2.450	2.52	2.431
4. All CPR	8.40	6.91	3.91	3.61	3.91	3.35	3.53	3.66	3.54

Regional livestock numbers in millions (cont'd)

	Long Horned Cattle								
	Summer					1st January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
1. NCR									
a) N & NW									
Arkhangelesh	0.393	0.51	0.387	0.509	0.53	0.391	0.449	0.418	0.375
Vologda Ob.	0.856	0.998	0.705	0.932	0.925	0.701	0.787	0.693	0.629
Leningrad Ob.	1.027	1.203	0.872	1.084	1.094	0.816	0.915	0.879	0.835
Murmansk Ob.									0.007
Smolensk Ob.	0.836	1.111	0.879	0.966	1.157	0.697	0.864	0.895	0.890
Kardea ASSR	0.104	0.152	0.098	0.120	0.112	0.094	0.095	0.093	0.088
Kami ASSR	0.126	0.154	0.103	0.140	0.156	0.114	0.131	0.130	0.122
Kalina Ob.	1.330	1.594	1.225	1.367	1.484	0.983	1.146	1.050	1.041
Orel Ob.	(0.895)	(1.113)	(0.780)	(0.898)	01.094)	(0.626)	(0.805)	(0.827)	(0.857)
25%	0.224	0.278	0.195	0.225	0.274	0.157	0.201	0.207	0.214
a) All N & NW	4.89	6.00	4.46	5.34	5.73	3.96	4.59	4.37	4.20
b) Cent. Ind.									
Ivanov	0.539	0.635	0.500	0.695	0.672	0.503	0.517	0.418	0.434
Gorky	0.672	0.754	0.645	0.877	0.965	0.660	0.746	0.695	0.73
Moscow	0.523	0.642	0.601	0.737	0.799	0.506	0.603	0.553	0.564
Ryazem	0.640	0.779	0.423	0.643	0.722	0.471	0.542	0.460	0.509
Tula	0.460	0.545	0.386	0.489	0.563	0.336	0.404	0.375	0.422
Yaraslav	0.725	0.803	0.638	0.799	0.785	0.584	0.608	0.475	0.486
b) All Cent.Ind.	3.559	4.158	3.193	4.24	4.506	3.06	3.42	2.976	3.145
c) BSSR	1.558	2.218	1.568	2.007	2.359	1.492	1.845	1.967	1.905
1. All NCR	10.01	12.38	9.22	11.59	12.60	8.51	9.86	9.31	9.25

Cont'd..

Regional livestock in numbers in millions (cont'd)

	Long Horned Cattle								
	Summer					1st January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
2. SCR									
a) ZSFSR									
Az SSR	1.472	1.379	1.16	1.387	1.52	1.264	1.431	1.473	1.535
Georg SSR	1.298	1.588	1.400	1.65	1.825	1.522	1.686	1.76	1.755
Arm SSR	0.808	0.917	0.602	0.666	0.726	0.558	0.624	0.657	0.712
a) All ZSFSR	3.578	3.884	3.162	3.703	4.071	3.344	3.741	3.89	4.002
b) Cent Asia									
Turkmia SSR	0.337	0.398	0.152	0.181	0.210	0.154	0.180	0.193	0.233
Uzbek	1.438	1.726	0.962	1.001	1.173	0.911	0.988	1.154	1.411
Tadzhek SSR	0.801	0.915	0.549	0.413	0.453	0.347	0.401	0.423	0.500
Kirqez ASSR	0.590	0.862	0.386	0.387	0.436	0.316	0.361	0.398	0.486
b) All Cent Asia	3.166	3.901	2.017	1.992	2.274	1.728	1.93	2.168	2.63
2. All SCR	6.744	7.785	5.179	5.695	6.345	5.072	5.671	6.058	6.632

cont'd....

Regional livestock numbers in millions (cont'd)

	Long Horned Cattle								
	July					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
3. SPR									
a) Ukr.	7.707	8.605	4.446	6.281	7.690	4.960	6.139	7.095	7.759
Crimea	0.211	0.231	0.144	0.224	0.26	0.189	0.215	0.239	0.265
a) All Ukr.	7.918	8.836	4.59	6.505	7.95	5.149	6.354	7.334	8.024
b) N. Cauc.									
Krasnoder	1.365	1.241	0.541	0.795	0.965	0.644	0.806	0.932	1.022
Ordzh	1.232	1.367	0.605	0.768	0.891	0.625	0.747	0.839	0.901
Roslov	1.786	1.860	0.791	1.038	1.22	0.825	0.995	1.107	1.150
Kabor Balk	0.274	0.327	0.128	0.169	0.192	0.138	0.166	0.173	0.188
N. Osetn	0.082	0.114	0.053	0.077	0.089	0.061	0.077	0.081	0.088
Chech Ingart	0.314	0.412	0.262	0.318	0.327	0.271	0.293	0.298	0.325
Dagasly	0.533	0.624	0.534	0.649	0.675	0.556	0.591	0.589	0.605
b) All N. Cauc.	5.586	6.495	2.914	3.814	4.354	3.17	3.675	4.019	4.279
3. All SPR	13.504	15.331	7.504	10.319	12.304	8.319	10.029	11.353	12.303

Cont'd..

Regional livestock numbers in millions (cont'd)

	Long Horned Cattle								
	July					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
4. CPR									
a) TsCh Zem	1.031	1.329	0.734	0.982	1.143	1.752	0.898	0.833	0.881
Kursk	0.891	1.074	0.638	0.839	1.013	0.621	0.774	0.755	0.807
Orlov	(0.895)	(1.113)	(0.780)	(0.898)	(1.094)	(0.626)	(0.805)	(0.827)	(0.857)
75%	0.671	0.835	0.585	0.674	0.821	0.470	0.604	0.620	0.643
Tambov G.	0.572	0.712	0.300	0.419	0.484	0.312	0.367	0.310	0.362
a) Ts Ch Zem	3.165	3.950	2.257	2.914	3.661	2.155	2.643	2.518	2.673
bi) L. Volga									
Stalingrad	1.597	1.847	0.790	0.97	1.146	0.797	0.932	0.986	1.035
Saratov	0.745	0.895	0.309	0.475	0.599	0.366	0.469	0.477	0.556
Germ Vog.	0.299	0.328	0.122	0.192	0.236	0.155	0.185	0.194	0.220
Kalyk.	0.292	0.327	0.176	0.216	0.249	0.170	0.203	0.227	0.253
bi) L. Volga	2.933	3.397	1.397	1.853	2.23	1.488	1.789	1.884	2.064
bii) Cent. Volga									
Kuibys.	0.857	0.979	0.508	0.618	0.784	0.462	0.604	0.639	0.760
Chkalov	1.023	1.163	0.567	0.687	0.861	0.540	0.688	0.769	0.858
Mordov	0.316	0.388	0.184	0.269	0.315	0.200	0.234	0.205	0.229
Penza	0.489	0.578	0.263	0.393	0.696	0.292	0.372	0.318	0.365
bii) Cent.Volga	2.685	3.108	1.522	1.967	2.456	1.494	1.898	1.931	2.212
biii) Up. Volga									
Kirov	0.821	0.829	0.675	0.839	0.936	0.595	0.714	0.645	0.637
Marvi	0.179	0.186	0.159	0.183	0.206	0.132	0.148	0.137	0.147
Tular	0.802	0.889	0.596	0.733	0.883	0.553	0.651	0.601	0.657
Udmart	0.418	0.421	0.412	0.388	0.453	0.283	0.348	0.283	0.279
Charvazh	0.235	0.25	0.225	0.286	0.332	0.213	0.240	0.233	0.249
Bashkir	1.371	1.416	0.872	1.162	1.411	0.847	1.072	0.986	1.136
biii) Up. Volga	3.826	3.991	2.739	3.591	4.221	2.623	3.173	2.885	3.305
b) All Volga	9.444	10.496	5.658	7.411	8.907	5.605	6.860	6.700	7.581
4. All CPR	12.61	14.45	7.92	10.33	12.37	7.76	9.56	9.22	10.25

Regional livestock numbers in millions (cont'd)

	Pigs								
	June					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
1. NCR									
a) N & NW									
Arkhangel Ob.	0.031	0.06	0.043	0.070	0.074	0.064	0.074	0.063	0.057
Vologda Ob	0.072	0.131	0.102	0.147	0.160	0.124	0.146	0.104	0.112
Leningrad Ob.	0.174	0.308	0.249	0.483	0.567	0.401	0.536	0.431	0.502
Murmansk Ob.									0.006
Smolensk Ob.	0.777	0.936	0.559	0.462	1.029	0.387	0.833	0.628	0.892
Kandia ASSR	0.001	0.007	0.013	0.025	0.025	0.024	0.031	0.026	0.026
Komi ASSR	0.008	0.016	0.008	0.013	0.020	0.015	0.020	0.018	0.020
Kalina Ob.	0.263	0.424	0.291	0.362	0.566	0.297	0.491	0.434	0.490
Orel Ob.	(0.65)	(1.11)	(0.47)	(0.55)	(1.00)	(0.43)	(0.89)	(0.56)	(0.85)
25%	0.164	0.277	0.118	0.137	0.251	0.108	0.222	0.139	0.214
a) All N & NW	1.490	2.159	1.383	1.699	2.692	1.422	2.353	1.845	2.313
b) Cent. Ind.									
Ivanov	0.059	0.114	0.099	0.213	0.249	0.143	0.205	0.095	0.135
Gorky	0.209	0.193	0.195	0.436	0.525	0.338	0.448	0.246	0.345
Moscow	0.146	0.397	0.296	0.433	0.548	0.335	0.496	0.315	0.401
Ryazan	0.315	0.451	0.251	0.547	0.582	0.434	0.530	0.238	0.460
Tula	0.251	0.288	0.207	0.296	0.474	0.221	0.415	0.231	0.398
Yaroslav	0.032	0.087	0.097	0.218	0.209	0.174	0.200	0.102	0.124
b) All Cent.Ind.	1.012	1.53	1.145	2.143	2.587	1.665	2.294	1.227	1.863
c) BSSR	1.803	2.399	1.549	1.655	2.202	1.480	1.984	1.596	1.951
1. All NCR	4.31	6.09	4.08	5.56	7.48	4.57	6.63	4.67	6.13
2. SCR									
a) ZSFSR									
Az SSR	0.036	0.02	0.054	0.154	0.144	0.115	0.141	0.117	0.121
G. SSR	0.439	0.543	0.294	0.674	0.896	0.486	0.781	0.702	0.684
Arm SSR	0.02	0.034	0.029	0.079	0.077	0.053	0.069	0.066	0.082
a) All ZSFSR	0.495	0.597	0.377	0.907	1.117	0.654	0.991	0.885	0.887
b) Cent. Asia									
Turkma SSR	-	-	0.008	0.03	0.033	0.019	0.033	0.029	0.023
Uzbek SSR	0.003	0.005	0.029	0.116	0.166	0.069	0.152	0.127	0.076
Tadz SSR	-	-	0.003	0.013	0.021	0.008	0.018	0.021	0.021
Kirqem ASSR	0.028	0.03	0.035	0.129	0.122	0.071	0.158	0.076	0.091
b) All Cent. Asia	0.031	0.035	0.075	0.288	0.342	0.167	0.361	0.253	0.211
2. All SCR	0.526	0.632	0.452	1.195	1.459	0.821	1.352	1.138	1.098

Regional livestock numbers in millions (cont'd)

	Pigs								
	June					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
3. SPR									
a) Ukr.	4.624	6.863	2.089	4.735	7.101	3.747	6.010	6.441	7.736
Crim	0.084	0.053	0.076	0.139	0.147	0.118	0.134	0.115	0.139
a) All Ukr.	4.713	7.016	2.165	4.874	7.248	3.915	6.144	6.556	7.889
b) N. Cauc.									
Krasnodn.	0.916	0.559	0.234	0.746	0.936	0.573	0.785	0.712	0.919
Ordzh	0.428	0.376	0.1	0.423	0.398	0.322	0.338	0.299	0.38
Rostov	0.573	0.429	0.197	0.552	0.685	0.388	0.541	0.443	0.554
Kaber Balk	0.025	0.015	0.012	0.042	0.045	0.036	0.046	0.036	0.043
Sev Ozsetin	0.033	0.016	0.017	0.068	0.072	0.045	0.079	0.047	0.049
Chech Ing	0.033	0.015	0.015	0.052	0.049	0.036	0.052	0.033	0.031
Dag	0.005	0.002	0.005	0.013	0.014	0.009	0.015	0.015	0.014
b) All N. Cauc.	2.063	1.412	0.58	1.896	2.199	1.409	1.856	1.585	1.99
3. All SPR	6.776	8.428	2.745	6.77	9.447	5.324	8.0	8.141	9.859
4. CPR									
a) TsCh Z									
Voronezh G.	0.420	0.633	0.303	0.545	0.764	0.394	0.626	0.288	0.508
Kursk G.	0.447	0.740	0.248	0.409	0.732	0.314	0.591	0.341	0.572
Orlov G.	(0.65)	(1.11)	(0.47)	(0.55)	(1.00)	(0.43)	(0.89)	(0.56)	(0.85)
75%.	0.491	0.830	0.353	0.410	0.752	0.323	0.666	0.417	0.641
Tambov G.	0.234	0.319	0.111	0.264	0.343	0.189	0.288	0.124	0.201
a) All TsCh Z	1.592	2.522	1.015	1.628	2.591	1.220	2.171	1.170	1.922
bi) L. Volga									
Stalingrad	0.444	0.417	0.137	0.439	0.584	0.266	0.45	0.257	0.310
Saratov	0.268	0.249	0.129	0.251	0.340	0.160	0.272	0.155	0.246
Germn Vol.	0.123	0.228	0.050	0.104	0.151	0.071	0.105	0.085	0.119
Kalmyh	0.026	0.007	0.005	0.023	0.019	0.013	0.015	0.01	0.018
bi) L. Volga	0.861	0.901	0.321	0.817	1.094	0.51	0.842	0.507	0.693
bii) C. Volga									
Kuibysh.	0.240	0.255	0.190	0.268	0.403	0.159	0.320	0.187	0.274
Chkalov	0.254	0.144	0.082	0.146	0.288	0.085	0.230	0.135	0.191
Mordov	0.105	0.083	0.063	0.152	0.195	0.118	0.160	0.076	0.129
Penza	0.11	0.132	0.12	0.261	0.338	0.179	0.284	0.133	0.206
bi) C. Volga	0.709	0.614	0.455	0.827	1.224	0.541	0.994	0.531	0.8
biii) U. Volga									
Kirov	0.242	0.280	0.141	0.221	0.319	0.172	0.235	0.161	0.270
Marii	0.076	0.067	0.047	0.075	0.100	0.070	0.083	0.054	0.083
Tatar	0.285	0.228	0.174	0.277	0.471	0.230	0.373	0.201	0.311
Udmort	0.310	0.288	0.145	0.227	0.373	0.155	0.265	0.115	0.197
Cheveazh	0.180	0.153	0.142	0.222	0.332	0.191	0.247	0.180	0.214
Bashkir	0.388	0.258	0.153	0.411	0.523	0.266	0.445	0.186	0.342
biii) U. Volga	1.481	1.275	0.802	1.433	2.118	1.084	1.648	0.897	1.428
b) All Volga	3.051	2.790	1.578	3.077	4.436	2.135	3.484	1.935	2.921
4. All CPR	4.64	5.31	2.59	4.71	7.03	3.355	5.66	3.11	4.84

Regional livestock numbers in millions (cont'd)

	Horses								
	July					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
5. EPR									
a) Urals									
Perm	0.347	0.359	0.207	0.220	0.231	0.204	0.216	0.216	0.198
Sverdlos	0.491	0.677	0.135	0.188	0.195	0.172	0.188	0.186	0.187
Chelyal	1.026	0.967	0.288	0.236	0.258	0.273	0.234	0.253	0.262
a) All Urals	1.864	1.753	0.68	0.644	0.684	0.589	0.638	0.655	0.647
b) Siberia									
Omsk	1.043	0.959	0.325	0.317	0.330	0.296	0.307	0.334	0.352
Novosibirsk	1.379	1.367	0.550	0.545	0.523	0.546	0.520	0.494	0.505
Irkatsh	0.310	0.341	0.171	0.155	0.156	0.148	0.154	0.154	0.163
Chelin	0.343	0.355	0.215	0.205	0.208	0.196	0.201	0.207	0.213
Burgat Mon	0.207	0.214	0.120	0.115	0.118	0.110	0.113	0.116	0.120
Yakut	0.119	0.175	0.153	0.162	0.158	0.149	0.154	0.156	0.163
Krasnogart	0.782	0.834	0.349	0.332	0.328	0.32	0.326	0.32	0.328
Prenorst	0.14	0.143	0.056	0.066	0.079	0.056	0.076	0.068	0.064
Latrovogs	0.193	0.197	0.066	0.083	0.075	0.069	0.071	0.059	0.06
Altai	1.217	1.205	0.466	0.441	0.418	0.431	0.42	0.405	0.433
b) All Siberia	5.679	5.790	2.471	2.421	2.393	2.321	2.342	2.313	2.401
c) Kazakstan	4.571	3.735	0.459	0.466	0.544	0.423	0.473	0.553	0.639
5. All EPR	12.11	11.28	3.61	3.53	3.62	3.33	3.45	3.52	3.69
All USSR	35.77	33.54	16.57	15.88	16.65	14.93	15.14	15.88	16.22

	Long Horned Cattle								
	July					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
5. EPR									
a) Urals									
Perm	0.708	0.692	0.419	0.567	0.653	0.425	0.529	0.516	0.503
Sverdlos	0.759	0.763	0.417	0.587	0.699	0.459	0.558	0.568	0.601
Chelyal	1.643	1.655	0.748	0.958	1.172	0.786	0.951	0.999	1.120
a) All Urals	3.11	3.11	1.584	2.112	2.524	1.67	2.038	2.083	2.224
b) Siberia									
Omsk	1.844	1.84	0.880	1.232	1.449	1.010	1.215	1.295	1.396
Novosibirsk	1.000	2.243	1.131	1.559	1.753	1.334	1.512	1.535	1.708
Irkatsh	0.478	0.677	0.297	0.390	0.442	0.313	0.366	0.395	0.436
Chelin	0.657	0.881	0.366	0.472	0.525	0.389	0.449	0.470	0.502
Burgat Mon	0.441	0.537	0.489	0.483	0.468	0.415	0.404	0.391	0.392
Krasnogart	0.891	1.079	0.607	0.722	0.778	0.61	0.695	0.687	0.767
Prenost	0.183	0.255	0.089	0.145	0.185	0.121	0.16	0.149	0.147
Latrovogs	0.201	0.279	0.114	0.193	0.213	0.152	0.18	0.167	0.166
Altai	1.808	2.156	1.027	1.407	1.546	1.152	1.318	1.339	1.466
b) All Siberia	7.982	10.676	5.254	6.936	7.746	5.781	6.314	6.779	7.363
c) Kazakstan	5.717	7.379	1.594	2.272	2.808	1.835	2.258	2.684	3.095
5. All EPR	16.81	21.17	8.43	11.32	13.08	9.29	10.61	11.55	12.68
All USSR	60.56	70.54	38.38	49.24	56.69	38.87	45.96	47.49	50.92

Regional livestock numbers in millions (cont'd)

	Sheep and Goats								
	June					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
1. NCR									
a) N & NW									
Arkhangel Ob.	0.332	0.575	0.36	0.325	0.292	0.291	0.294	0.246	0.274
Vologda Ob.	0.567	1.150	0.674	0.734	0.562	0.568	0.513	0.342	0.39
Leningrad Ob.	0.91	1.365	0.905	1.107	1.063	0.836	0.866	0.770	0.893
Murmansk Ob.									0.14
Smolensk Ob.	1.715	2.623	1.359	1.103	1.324	0.651	0.815	0.817	1.019
Kardia ASSR	0.076	0.131	0.077	0.082	0.066	0.073	0.067	0.064	0.068
Komi ASSR	0.118	0.158	0.095	0.092	0.098	0.094	0.103	0.090	0.100
Kalina Ob.	1.767	3.126	1.741	1.937	1.909	1.156	1.173	0.983	1.243
Orelot	(2.78)	(3.58)	(1.04)	(0.78)	(1.01)	(0.48)	(0.59)	(0.63)	(0.81)
25%	0.694	0.896	0.260	0.195	0.253	0.119	0.147	0.158	0.203
a) All N & NW	6.193	10.024	5.471	5.575	6.580	3.788	3.978	3.470	4.205
b) Cent. Ind.									
Ivanov	0.625	1.098	0.647	0.901	0.920	0.511	0.551	0.491	0.680
Gorky	1.093	1.566	1.061	1.10	1.258	0.712	0.781	0.787	1.089
Moskow	0.844	1.389	0.731	0.655	0.667	0.426	0.448	0.417	0.555
Ryazan	1.948	2.150	0.939	0.892	1.005	0.593	0.630	0.557	0.810
Tula	1.497	1.742	1.010	0.706	0.08	0.448	0.462	0.426	0.605
Yaroslav	0.477	1.003	0.670	1.069	1.015	0.668	0.700	0.443	0.585
b) All Cent. Ind.	6.484	8.948	5.058	5.323	5.665	3.358	3.572	3.121	4.324
c) BSSR	1.748	3.817	1.843	1.176	1.291	0.752	0.845	0.867	1.074
1. All NCR	14.43	22.79	12.37	12.07	13.54	7.90	8.40	7.46	9.60
2. SCR									
a) ZSFSR									
Az SSR	2.765	2.858	1.603	1.972	2.402	1.593	1.989	2.160	2.439
G. SSR	2.166	2.37	1.448	1.822	2.115	1.382	1.593	1.742	1.954
Arm SSR	1.668	1.73	0.943	1.084	1.304	0.719	0.889	1.037	1.197
a) All ZSFSR	6.599	6.958	3.994	4.868	5.821	3.694	4.471	4.939	5.59
b) Cent Asia									
Trukma SSR	5.784	4.092	1.104	1.580	2.114	1.124	1.467	1.695	1.831
Uzbek SSR	4.559	6.001	2.213	3.274	2.856	2.298	2.793	3.310	3.98
Tadz SSR	2.297	3.011	1.334	1.138	1.377	0.798	1.066	1.172	1.635
Kirqez ASSR	3.34	5.501	1.29	1.467	1.779	0.967	1.241	1.890	1.886
b) All Cent. Asia	15.98	18.605	5.941	7.459	8.126	5.183	6.567	8.067	9.332
2. All SCR	22.579	25.563	9.935	12.327	13.947	8.882	11.038	13.006	14.922

Regional livestock numbers in millions (cont'd)

	Sheep and goats								
	June					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
2. SPR									
a) Ukr.	6.380	8.112	1.988	2.758	3.573	1.767	2.318	2.774	3.302
Crim.	0.710	0.879	0.409	0.653	0.786	0.442	0.548	0.697	0.820
a) All Urk.	7.09	8.991	2.397	3.411	4.359	2.209	2.866	3.471	4.122
b) N. Cauc.									
Kravnodn.	1.251	1.064	0.304	0.509	0.693	0.345	0.463	0.602	0.732
Ordzh	3.175	2.519	1.49	2.312	2.786	1.522	1.911	2.3	2.721
Rostov	2.155	2.115	1.011	1.339	1.703	0.848	1.091	1.215	1.411
Kaber Balk	0.543	0.589	0.184	0.277	0.358	0.192	0.246	0.300	0.365
Sev Ozselin	0.147	0.206	0.052	0.088	0.140	0.059	0.095	0.116	0.135
Chech Ing.	0.461	0.599	0.357	0.365	0.365	0.256	0.294	0.300	0.344
Dag	1.816	2.458	1.396	1.618	1.851	1.243	1.35	1.44	1.681
b) All N. Cauc.	9.548	9.55	4.794	6.508	7.896	4.465	5.45	6.273	7.384
3. All SPR	16.638	18.541	7.191	9.919	12.235	6.674	8.316	9.744	11.506
4. CPR									
a) TsCh Z									
Voronezh G.	2.388	2.399	0.676	0.954	1.287	0.562	0.732	0.796	0.993
Kursk G.	2.280	2.503	0.562	0.575	0.761	0.344	0.446	0.501	0.632
Orlov	(2.78)	(2.58)	(1.04)	(0.78)	(1.01)	(0.48)	(0.59)	(0.63)	(0.81)
75%	2.083	2.887	0.779	0.584	0.760	0.358	0.440	0.475	0.611
Tambov G	1.760	1.942	0.375	0.522	0.736	0.334	0.420	0.398	0.543
a) All TsCh Z	8.511	9.531	2.392	2.635	3.544	1.598	2.038	2.170	2.779
bi) Low Volga									
Stalingrad	2.391	2.381	0.893	1.189	1.555	0.711	0.919	1.154	1.400
Saratov	1.772	1.866	0.536	0.817	1.102	0.467	0.664	0.735	0.986
Germ Vol.	0.530	0.532	0.113	0.217	0.291	0.125	0.174	0.211	0.291
Kalmyh	0.973	1.018	0.455	0.675	0.828	0.443	0.542	0.637	0.760
bi) L. Volga	5.666	5.797	1.997	2.898	3.776	1.746	2.299	2.737	3.437
bii) Cent.Volga									
Kuibysh	2.391	2.479	0.663	0.846	1.275	0.516	0.803	0.937	1.362
Chkalov	2.12	1.799	0.810	0.968	1.291	0.562	0.819	0.994	1.253
Mordov	0.843	1.078	0.215	0.337	0.476	0.225	0.289	0.304	0.466
Penza	1.383	1.554	0.278	0.475	0.701	0.299	0.432	0.419	0.591
bii) Cent.Volga	6.737	6.91	1.966	2.626	3.743	1.602	2.343	2.654	3.672
biii) Up.Volga									
Kirov	1.692	2.074	1.408	0.947	0.937	0.540	0.558	0.444	0.603
Marii	0.474	0.568	0.372	0.316	0.348	0.204	0.208	0.194	0.242
Tatar	2.621	2.776	1.013	1.276	1.727	0.836	1.03	1.06	1.338
Udmort	0.896	1.014	0.656	0.601	0.666	0.353	0.404	0.298	0.344
Cheveazh	0.902	0.953	0.586	0.790	0.942	0.538	0.550	0.562	0.635
Bashkir	3.155	3.014	1.017	1.466	2.501	0.948	1.342	1.257	1.765
biii) Up.Volga	9.74	10.399	5.052	5.396	7.121	3.419	4.092	3.815	4.927
b) All Volga	22.143	23.106	9.015	10.920	14.640	6.767	8.734	9.206	12.036
4. All CPR	30.65	32.64	11.41	13.56	18.18	8.37	10.77	11.38	14.82

Regional livestock numbers in millions (cont'd)

	Sheep and Goats								
	June					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
5. EPR									
a) Urals									
Perm	0.921	1.101	0.385	0.499	0.625	0.347	0.474	0.403	0.535
Sverd	0.791	0.994	0.244	0.350	0.439	0.231	0.329	0.341	0.470
Chelyal	1.791	2.316	0.850	1.091	1.408	0.702	0.957	1.040	1.358
a) all Urals	3.503	4.471	1.479	1.94	2.472	1.28	1.76	1.784	2.363
b) Siberia									
Omsk	1.912	2.541	0.799	1.186	1.488	0.770	1.027	1.123	1.463
Novosibirsk	1.602	3.463	0.993	1.461	1.709	1.037	1.168	1.240	1.580
Irkutsh	0.301	0.591	0.212	0.258	0.284	0.212	0.232	0.242	0.294
Cheli	0.989	1.745	0.506	0.764	0.865	0.552	0.662	0.734	0.833
Burgat M.	0.547	0.898	0.214	0.347	0.429	0.257	0.327	0.375	0.445
Yakat	-	-	-	-	-	-	-	-	-
Kvasnogorsk	1.318	2.654	1.103	1.379	1.449	0.951	1.098	1.077	1.265
Premorsh	0.04	0.1	0.022	0.031	0.042	0.024	0.033	0.028	0.03
Khabarosh	0.074	0.186	0.023	0.036	0.039	0.027	0.031	0.037	0.038
b) All Siberia									
c) Kazakstan	24.758	25.316	2.725	4.093	4.122	2.698	3.526	4.312	5.288
5. All EPR	121.202	146.699	50.206	61.063	73.657	40.771	49.897	53.777	66.595

	Pigs								
	June					January			
	1916	1928	1933	1935	1936	1935	1936	1937	1938
5. EPR									
a) Urals									
Perm	0.313	0.228	0.116	0.253	0.427	0.165	0.328	0.199	0.288
Sverd	0.378	0.327	0.141	0.266	0.428	0.181	0.335	0.215	0.261
Chelyal	0.399	0.301	0.179	0.267	0.397	0.180	0.312	0.193	0.274
a) Urals	1.09	0.856	0.436	0.786	1.252	0.526	1.025	0.407	0.823
b) Siberia									
Omsk	0.695	0.692	0.288	0.558	0.759	0.386	0.604	0.355	0.427
Novosibirsk	0.696	0.947	0.432	0.689	0.692	0.544	0.581	0.521	0.704
Irkutsh	0.279	0.38	0.132	0.219	0.227	0.144	0.194	0.159	0.181
Cheli	0.225	0.302	0.119	0.217	0.191	0.145	0.150	0.122	0.137
Burgat M.	0.100	0.152	0.052	0.097	0.104	0.062	0.074	0.069	0.068
Yakat	0.004	0.001	0.006	0.12	0.10	0.009	0.009	0.012	0.014
Kvasnogorsk	0.455	0.619	0.233	0.43	0.36	0.313	0.328	0.249	0.383
Premorsh	0.168	0.252	0.07	0.238	0.239	0.163	0.215	0.162	0.167
Khabarosh	0.161	0.242	0.066	0.226	0.213	0.165	0.192	0.119	0.111
Altai	0.469	0.783	0.231	0.471	0.395	0.311	0.378	0.284	0.408
b) Siberia	3.252	4.370	1.629	3.157	3.190	2.242	2.725	2.052	2.600
c) Kazakstan	0.335	0.304	0.139	0.449	0.632	0.276	0.558	0.338	0.368
5. All EPR	4.68	5.52	2.20	4.39	5.07	3.04	4.31	3.00	3.79
All USSR	20.895	25.989	12.068	22.560	30.457	17.116	25.904	20.044	25.716

Horse

The regional numbers of horses from different sources in millions

		NCR	SCR	SPR	CPR	EPR	USSR	USSR -SCR
1a	1916	3.96		8.83	7.12	11.60		31.51
	1920	3.69		7.15	5.12	9.45		25.41
	1921	3.75		7.01	3.92	8.65		23.33
	1922	3.92		5.17	3.26	6.54		18.88
1b	1923	4.27		4,93	4.02	6.57		20.07
2	1916	4.65		7.90	8.98	10.03		31.54
	1923	4.82		4.94	4.72	6.93		21.41
	1924	4.97	0.98	5.13	5.30	7.48	23.85	22.88
	1925	5.37		5.47	5.55	7.80		24.18
3a	1916a	5.39	0.99	8.10	8.34	12.96	35.77	
	1916b	5.16	0.97	7.31	8.00	12.91	34.35	
	1923	5.19	0.66	5.01	3.93	7.12	21.90	
	1924	5.56	0.66	5.23	4.64	8.12	24.21	
	1925	5.95	0.69	5.58	4.91	9.18	26.31	
	1926	6.08	0.79	6.18	5.50	9.73	28.27	
	1927	6.16	0.86	6.79	6.07	10.67	30.55	
3b	1924	5.70	0.66	5.25	4.67	8.38	24.67	
	1925	5.98	0.69	5.58	4.91	8.84	26.01	
	1926	6.10	0.79	6.18	5.50	9.73	28.29	
	1927	6.19	0.86	6.79	6.07	10.67	30.58	
4	1925	5.98	1.04	5.58	4.92	8.49	26.01	
	1926	6.09	1.28	6.18	5.50	9.24	28.29	
	1927	6.19	1.37	6.79	6.07	10.16	30.58	
	1928	6.28	1.39	7.32	6.46	10.53	31.98	
6	1927	6.33	1.50	6.91	6.16	10.49	31.56	
	1928	6.37	1.66	7.51	6.61	11.21	33.54	
	1929	6.34	1.79	7.78	7.07	11.49	34.64	
7	1916	5.25	1.79	8.22	8.40	12.11	35.77	
	1928	6.19	1.73	7.43	6.91	11.28	33.54	
	1916	4.68		7.92	11.38	7.33		31.31
	1922	4.57		5.22	5.55	4.83		20.17
	1923	4.74		4.91	6.09	4.32		20.06
	1924	4.97		5.06	6.97	4.92		21.92

Cattle

The regional numbers of cattle in millions

		NCR	SCR	SPR	CPR	EPR	USSR	USSR -SCR
1a	1916	8.37		14.45	10.24	16.91		49.97
	1920	7.44		11.96	7.18	12.52		39.10
	1921	7.90		11.74	6.43	10.75		36.82
	1922	8.59		10.31	5.99	8.14		33.03
1b	1923	7.30		10.57	9.85	9.52		38.68
2	1916	9.17		12.54	13.14	15.24		50.07
	1923	10.18		10.56	9.88	10.65		41.77
	1924		3.82	11.94	11.78	13.12	51.42	47.60
	1925	11.44		12.21	12.34	13.90		49.92
3a	1916a	10.23	6.55	12.77	12.46	18.55	60.56	
	1916b	9.82	6.46	11.62	11.92	18.43	58.25	
	1923	10.97	4.72	10.97	8.53	10.96	46.16	
	1924	11.91	4.72	12.41	10.66	13.58	53.55	
	1925	12.52	5.00	12.94	11.24	16.42	58.12	
	1926	11.80	5.34	13.69	12.22	18.32	61.37	
	1927	11.47	5.73	14.15	12.87	20.44	64.65	
3b	1924	12.50	4.72	12.82	11.57	15.07	56.69	
	1925	12.73	5.00	13.18	11.80	16.92	59.63	
	1926	12.02	5.34	13.91	12.70	19.05	63.03	
	1927	11.58	5.73	14.33	13.25	21.07	65.95	
4	1925	12.73	4.29	13.18	11.80	16.46	59.63	
	1926	12.02	4.72	13.91	12.70	18.44	63.03	
	1927	11.58	4.92	14.33	13.25	20.38	65.95	
	1928	12.27	4.87	14.53	13.79	19.76	66.79	
6	1927	11.89	7.29	13.81	13.36	20.99	67.82	
	1928	12.52	9.18	14.78	14.14	20.95	70.54	
	1929	11.91	9.34	13.14	13.94	19.65	67.11	
7	1916	10.01	6.74	13.50	12.61	16.81	60.58	
	1928	12.38	7.79	15.33	14.45	21.17	70.56	
	1916	9.34		11.99	17.67	10.38		50.28
	1922	9.68		10.40	9.37	5.60		35.05
	1923	10.04		10.50	12.08	5.99		38.60
	1924	10.76		11.78	15.13	7.96		45.64

Pigs

The numbers of pigs from different sources in millions

		NCR	SCR	SPR	CPR	EPR	USSR	USSR -SCR
1a	1916	3.34		7.44	3.74	5.15		19.59
	1920	2.54		6.19	2.17	3.92		14.83
	1921	2.38		5.82	1.16	3.13		12.49
	1922	2.72		3.01	0.67	1.24		7.64
1b	1923	1.24		2.96	1.00	1.59		9.13
2	1916	4.11		6.51	4.79	4.13		19.53
	1923	3.28		2.90	1.51	1.71		9.39
	1924	4.43	0.47	5.51	4.22	3.05	17.67	17.20
	1925	4.91		4.67	3.20	3.60		16.40
3a	1916a	4.60	0.50	6.70	4.38	4.70	20.88	
	1916b	4.47	0.49	6.28	4.18	4.68	20.10	
	1923	3.42	0.35	3.01	1.28	1.70	9.76	
	1924	4.95	0.35	5.57	3.58	3.12	17.56	
	1925	5.09	0.38	4.76	2.96	4.27	17.45	
	1926	4.82	0.42	4.90	2.68	4.03	16.84	
	1927	5.14	0.40	5.79	3.10	4.47	18.89	
3b	1924	6.23	0.35	6.58	4.34	3.82	21.31	
	1925	6.18	0.38	5.71	3.55	5.12	20.94	
	1926	6.00	0.42	6.12	3.35	5.03	20.92	
	1927	6.02	0.40	6.95	3.71	5.36	22.45	
4	1925	6.18	0.44	5.71	3.55	5.03	20.94	
	1926	6.00	0.46	6.12	3.35	5.00	20.92	
	1927	6.02	0.44	6.95	3.71	5.33	22.45	
	1928	6.34	0.43	8.32	4.66	5.49	25.23	
6	1927	6.41	0.61	7.01	3.64	5.38	23.08	
	1928	6.65	0.63	8.43	4.66	5.61	25.99	
	1929	5.27	0.68	5.44	3.81	5.17	20.38	
7	1916	4.31	0.53	6.78	4.64	4.68	20.88	
	1928	6.09	0.63	8.43	5.31	5.52	25.99	
	1916	4.12		6.57	6.08	2.51		19.27
	1922	3.61		3.01	1.11	0.83		8.56
	1923	3.34		2.96	1.30	0.95		9.14
	1924	4.42		5.46	5.21	1.66		16.76

A computed series of regional livestock data in millions

	NCR		SCR	SPR		CPR		EPR		USSR		
Horses												
1916	5.5		1.0	8.3		8.2		13.0		35.8		35.8
1920	5.1		(1.2)	7.6		5.9		11.7		31.5		
21	5.2		(1.2)	7.5		4.5		10.7		29.1		29.6
22	5.5		(1.1)	5.5		3.8		8.1		24.0		24.1
23	5.7		1.2	5.2		4.1		7.2		23.6		24.6
24	5.8		1.2	5.3		4.7		8.2		25.2		25.7
25	6.1		1.2	5.7		5.0		8.7		26.7		27.1
26	6.2		1.4	6.3		5.6		9.6		29.1		29.2
27	6.3		1.5	6.9		6.2		10.5		31.4		31.5
28	6.4		1.7	7.5		6.6		11.2		33.4		33.5
29	6.3		1.8	7.8		7.1		11.5		34.5		34.6
Cattle												
1916	11.2	10.2	6.6	12.6	12.8	12.4	12.4	19.6	18.6	62.4	60.6	60.6
1920	10.0		(5.5)	12.7		8.7		16.2		53.1		
21	10.6		(5.5)	12.4		7.8		14.0		50.3		50.8
22	11.5		(5.0)	10.9		7.2		10.6		45.2		45.8
23	12.0		6.0	11.0		9.3		11.3		49.6		52.9
24	12.8		6.0	12.4		11.7		15.0		57.9		59.0
25	13.1		6.4	12.7		11.9		16.9		61.0		62.1
26	12.3		6.8	13.4		12.8		19.0		64.3		65.6
27	11.9		7.3	13.8		13.4		21.0		67.4		68.2
28	12.5		9.2	14.8		14.1		21.0		71.6		70.7
29	11.9		9.3	13.1		13.9		19.7		67.9		67.2
Pigs												
1916	6.5	4.6	0.8	9.1	6.7	5.1	4.4	8.0	4.7	29.5		20.9
1920	5.1		(0.5)	7.5		3.0		6.1		22.2		
21	4.8		(0.5)	7.1		1.6		4.9		18.8		19.4
22	5.4		(0.5)	3.7		1.4		1.9		12.8		12.0
23	5.0		(0.4)	3.6		1.6		2.2		12.9		12.9
24	6.6		0.5	6.6		4.3		3.8		21.8		22.2
25	6.6		0.5	5.8		3.5		5.1		21.6		21.8
26	6.4		0.6	6.2		3.3		5.1		21.6		21.6
27	6.4		0.6	7.0		3.6		5.4		23.0		23.2
28	6.7		0.6	8.4		4.7		5.6		26.0		26.1
29	5.3		0.7	5.4		3.8		5.2		20.4		20.5

11/ Additional appendices

a) Budget studies

The zemstvo statisticians began organising detailed investigations of peasant family budgets from the 1870s. The methods of study varied from region to region. The following table presents an indication of the number and type of different budget studies that were carried out in 40 years before 1912.[1]

	1870 1880	1881 1890	1891 1900	1901 1910	1911	All
Method						
Unified	109	60	13	9	10	201
Questionnaire	-	1	168	183	656	1,008
Selection of 'typical' households	-	321	4,440	1,865	1,303	7,929
random selection	-	-	2,417	-	-	2,417
All	109	382	7,038	2,057	1,969	11,555

Source: A.I. Gozulov, Ocherki istorii otechestvennoye statistiki, M.1972; p.164.

The most usual method of conducting budget investigations was to select a 'typical' household and to survey it in detail. About 20% of all the listed budget studies selected the investigated household in a random manner and less than 10% used questionnaires, which were sent out to the local correspondents in the zemstvo correspondents network. These budgets covered all manner of items, including peasant income and expenditure, as well as the production and utilisation of different produce. An attempt has

1. It is rather unfortunate that this table stops in 1911, as there was undoubtedly a large increase in the number of budget surveys in the immediate pre-war period, and also during the war years.

been made to summarise the contents of these budget investigations by S.A. Svavitsky.[2]

After the revolution a department of budget statistics was created in TsSU under L.N. Litoshenko's leadership. The department attempted to unify the methods of collecting budget studies and carried out a whole range of budget investigations. The scale of budget studies and their different nature are indicated in the following table.

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2. See S.A. Svavitsky Krestyanskii budzhety.

Numbers of households covered by different kinds of budget investigations

	1918/19	1919/20	1920/21	1921/22	1922/23	1923/24	1924/25	1925/26	1926/27	1927/28	1928/29	all
Expeditionary budgets												
full	1,422	-	395	427	4,000	2,230	3,150	3,850	5,080	-	7,500	28,074
short						6,973	7,550	7,150	-	-	-	21,675
balance									9,500	9,500	-	19,000
Budget records (zapisi)						80	280	665	1,128	2,037	2,500	6,690
Money records									6,700	7,460	10,000	24,160
Product records										1,500	1,500	3,000
All	1,422	-	395	427	4,000	9,305	10,980	11,665	22,408	19,997	21,500	107,099

Source: L. N. Litoshenko, Statistika krestyanskikh budzhetov, in V. E. Den & B. I. Karpenko, Khozyaistvennaya Statistika SSSR, L. 1931, p. 112.

The most traditional and numerous form of budget studies were the full budget studies. These were collected by expeditionary means, whereby a group of statistical investigators visited the surveyed household and carried out a fairly detailed and lengthy investigation, questioning the members of the household, measuring stocks and recording expenditure etc.

The full budgets served to provide data on a wide range of questions, including the organization/production of the household and labour expenditure, as well as the product balances. After 1927 it was decided to carry these full budgets out less frequently and rely for most tasks, including the investigation of balances, on the other less costly budgets.

The short budgets were introduced in 1923. They did not cover labour and were intended to provide supplementary mass data for the balances. From 1926 these were replaced by the "balance budgets".

The balance budgets merely included the product balances with no record of labour or income. The timing of the full budgets was from July to June, but the timing of these new balance budgets was also altered from April to July. This provided more accurate data on utilization balances, as it was right at the end of the agricultural year, after consumption had taken place. It was however, less satisfactory for providing control materials on sown area and yield, because it delayed the processing of these materials by another 3 months.

In 1929 the balance budgets were combined with production budgets into a new type of full budget which included an account of labour and income. The timing of these budgets was however returned to April, much to the distress of Lositsky and other product utilization investigators.

Apart from the expeditionary budgets which collected data for the year as a whole, there were several more detailed budgets which provided a stream of data concerning monthly changes in the peasant household. The fullest of these monthly budgets were the zapisi (budget records) which had been carried out from 1923. From 1926 a series of special monthly money budgets were introduced, and from 1927 a series of monthly product budget records.

b) The sown area for all crops in the USSR 1916, 1920-24 in mln.hectare

	1916	1920	1921	1922	1923	1924
NCR						
Consumer Regions	13.24	9.14	10.29	11.71	12.33	13.42
SPR						
UkSSR	22.53	22.00	22.00	17.60	20.57	21.97
Yugo Vostok	9.18	6.65	6.67	5.03	6.57	6.78
All SPR	31.71	28.65	28.67	22.63	27.14	28.75
CPR						
Producer Regions	39.41	31.56	27.98	23.29	30.01	33.10
EPR						
Sibir	5.59	6.26	4.69	4.41	4.87	5.37
Kirgiz SSR	4.59	4.35	3.17	2.10	2.09	2.29
All EPR	10.18	10.61	7.86	6.51	6.96	7.66
All USSR -SCR	94.54	79.96	74.81	64.13	76.43	82.92

Source: P.I.Popov EO., 1924, no.23/24 p.LXXX.

Prewar military procurements of grain.

	Flour in grain equivalent	Rye	Groats	Oats	All in grain equivalent
1889					
Intendanstvo contracts	0.189	0.042	0.032	0.052	0.315
direct	0.003	0.003	-	-	0.006
Min.Fin.	-	-	-	-	-
All	0.192	0.045	0.032	0.052	0.321
1890					
Int. contracts	0.160	0.021	0.029	0.045	0.255
direct	0.001	0.005	-	-	0.006
Min.Fin.	-	-	-	-	-
All	0.161	0.026	0.029	0.045	0.261
1891					
Int. contracts	0.138	0.011	0.025	0.037	0.211
direct	-	0.001	-	-	0.001
Min.Fin.	-	-	-	-	-
All	0.138	0.012	0.025	0.037	0.212
1892					
Int. contracts	0.175	0.026	0.027	0.053	0.281
direct	-	0.002	-	-	0.002
Min.Fin.	-	-	-	-	-
All	0.175	0.028	0.027	0.053	0.283
1893					
Int. contracts	0.205	0.050	0.034	0.049	0.338
direct	0.003	0.002	-	-	0.005
Min.Fin.	-	-	-	-	-
All	0.028	0.052	0.034	0.049	0.346
1894					
Int. contracts	0.107	-	0.034	0.064	0.205
direct	-	0.002	-	-	0.002
Min.Fin.	0.087	0.059	-	-	0.146
All	0.194	0.061	0.034	0.064	0.353
1895					
Int. contracts	0.129	0.040	0.036	0.049	0.254
direct	-	-	-	-	-
Min.Fin.	0.088	0.017	-	-	0.105
All	0.217	0.057	0.036	0.049	0.359
1896					
Int. contracts	0.156	0.054	0.036	0.042	0.288
direct	-	-	-	-	-
Min.Fin.	0.049	0.010	-	-	0.059
All	0.205	0.064	0.036	0.042	0.347
1897					
Int. contracts	0.169	0.035	0.038	0.059	0.301
direct	0.001	0.011	-	0.001	0.013
Min.Fin.	0.040	0.022	-	-	0.062
All	0.200	0.068	0.038	0.059	0.365

Source: T.M.Kitanina, Khlebnaya torgovlya Rossii v 1875-1916gg. L.1978, pp.208-209. Data from TsGVIA, f499, op.3 d667, l.310-2.

Notes on Regions

Throughout the period being covered and particularly in the 1920s there were frequent changes in the name, number and coverage of the different administrative units. The following table indicates the extent of these changes:

	Autonomous Republics	Autonomous Oblasts	Oblasts and Krai	Gubernii	Okrugs	Uezds	Raion	Volosts
Area of former Empire								
1785			2	41		483		10,000
1917				101		812		16,760
In pre-1939 area of USSR								
1917				74		605		13,913
In RSFSR & federated Republics								
1/1/1922	9	10		84		759		15,072
1/1/1923	13	16		75		766		13,659
In USSR								
1/1/1924	14	14	1	72	68	611	938	9,291
1/1/1925	13	17	2	66	96	498	1294	4,810
1/1/1926	15	14	3	47	114	442	1530	4,428
1/1/1927	15	14	4	38	124	419	1641	4,117
1/1/1928	15	14	5	33	129	343	1854	3,564
1/1/1929	15	16	8	16	176	198	2426	1,595

Source: Administrativno territorialnoye delenii SSSR: spisok vazhnyeishikh naselennyikh punktov, izd. 8, M.1929, pp. 5, 11, 12.

In the thesis the administrative regions have normally been grouped together at the level of gubernii and above. But even here there were considerable changes from year to year. Not infrequently the changes also resulted in a change in title of the regional unit, but often the title remained the same although the coverage of the unit changed. Great care must therefore be taken in comparing these regions.

The translation of the titles of these administrative units also presents some problems. In most cases at the level of gubernii and oblasts the title of the regional unit is derived from the major town (or the longest established major town) in the unit. The town name is turned into an adjective which declines in agreement with the noun that it is applied to. In some of the tables these adjectival endings are given in full e.g. MOSKOVSKAYA gubernia, in some they have been abbreviated e.g. MOSKOVSK. G. MOSK. G. and in some the name of the town has been translated e.g. Moscow G. In most cases these abbreviations and variants are obvious but in other cases difficulties might arise. The following list a) the major pre-revolutionary gubernii and oblasts that are referred to with the abbreviations used and b) the abbreviations of the major regions used in the post-revolutionary period.

a) Major pre-revolutionary gubernii and oblasts

Full title	Abbreviation (Translation)	Main town
Arkhangelskaya G.	Arkhangel. G.	Arkhangel
Vologodskaya G.	Vologda G.	Vologda
Olonetskaya G.	Olonets. G.	Petrozavodsk
Novgorodskaya G.	Novgorod G.	Novgorod
Peterburgskaya G.	S. Petersburg G.	S. Petersburg
Pskovskaya G.	Pskov G.	Pskov
Smolenskaya G.	Smolensk. G.	Smolensk
Tverskaya G.	Tver G.	Tver
Yaroslavskaya G.	Yaroslav G.	Yaroslavl
Moskovskaya G.	Moscov G.	Moscow
Vladimirskaya G.	Vladimir G.	Vladimir
Kostromskaya G.	Kostroma G.	Kostroma
Kaluzhskaya G.	Kaluzh. G.	Kaluga
Nizhegorodskaya G.	Nizhegorod G.	Nizhne Novgorod
Tulskaya G.	Tula G.	Tula
Ryazanskaya G.	Ryazan G.	Ryazan
Vitebskaya G.	Vitebsk G.	Vitebsk
Minskaya G.	Minsk G.	Minsk
Mogilevskaya G.	Mogilev G.	Gomel
Vilenskaya G.	Vilna G.	Vilna
Grodnenskaya G.	Grodnensk G.	Sokolka
Kovenskaya G.	Kovensk. G.	Kovno
Poltavskaya G.	Poltava G.	Poltava
Kharkovskaya G.	Kharkov G.	Kharkov
Chernigovskaya G.	Chernigov G.	Chernigov
Volyinskaya G.	Volyinsk G.	Zhitomir
Kievskaya G.	Kiev G.	Kiev
Podolskaya G.	Podolsk. G.	Kamenets-Podolsk
Bessarabskaya G.	Bessarab G.	Kishinev
Oblast Voisko Don	Don Ob. (Don Military Ob.)	Rostov on Don
Ekaterinoslavskaya G.	Ekaterin. G	Ekaterinoslav
Tavricheskaya G.	Tavrich. G.	Sevastopol
Khersonskaya G.	Kherson G.	Kherson
Kubanskaya Ob.	Kuban Ob.	Ekaterinodar
Stavropolskaya G.	Stavropol G	Stavropol
Terskaya Ob.	Tersk Ob. (Terek Ob.)	Vladikavkaz
Bakinskaya G.	Baku G.	Baku
Batumskaya G.	Batum G.	Batumi
Dagestanskaya G.	Dag. G.	Derbent
Elisavetpolskaya G.	Elisavet. G.	Elisavetpol
Karsskaya G.	Kars G.	Kars
Kutaisskaya G.	Kutais. G.	Kutaisi
Sukumskii Okr.	Sukhumi Okr.	Sukhumi
Tiflisskaya G.	Tiflis G.	Tiflis (tbilisi)
Chernomorskaya G.	Chernomor. G.	Novorossiisk
Erivanskaya G.	Erivan G.	Erivan

Full title	Abbreviation	Main town
Voronezhskaya G.	Voronezh G.	Voronezh
Kurskaya G.	Kursk G.	Kursk
Orlovskaya G.	Orlov G., Orel G.	Orel
Tambovskaya G.	Tambov G.	Tambov
Astrakhanskaya G.	Astrakhan G.	Astrakhan
Saratovskaya G.	Saratov G.	Saratov
Samarskaya G.	Samara G.	Samara
Penzenskaya G.	Penza G.	Penza
Simbirskaya G.	Simbirsk.G	Simbirsk
Kazanskaya G.	Kazan G.	Kazan
Vyatskaya G.	Vyatka G.	Vyatka
Ufimskaya G.	Ufa G.	Ufa
Permskaya G.	Perm G.	Perm
Orenburgskaya G.	Orenburg G.	Orenburg
Tobolskaya G.	Tobolsk G.	Tobolsk
Tomskaya G.	Tomsk G.	Tomsk
Amurskaya G.	Amur G.	Blagoveshchensk
Yenisyeiskaya G.	Yeniseis G. Eniseisk G.	Krasnoyarsk
Irkutskaya G.	Irkutsk G.	Irkutsk
Yakutskaya G.	Yakutsk G.	Yakutsk
Zabaikalskaya G.	Zabaik.G (Transbaikal)	Chita
Primorskaya G.	Primors G. (Maritime)	Vladivostok
Sakhalinskaya Ob.	Sakhalin Ob.	
Akmolinskaya Ob.	AkmolinskOb.	Akmolinsk
Semipalatinskaya G.	Semipalatinsk G.	Semipalatinsk
Semirechinskaya G.	Semirechinsk G,	Vernyi
Uralskaya G.	Uralsk G.	Uralsk
Turgaiskaya Ob.	Turgai Ob.	Kustanai
Syr Darinskaya G.	Syr Dar. G.	Tashkent
Zakaspiiskaya G.	Zakasp. G.	Askhabad
Ferganskaya G.	Fergan G.	Kokand
Samarkandskaya G.	Samarkand G.	Samarkand

b) Abbreviations for major regions (post-revolutionary)

NCR	Northern Consumer Region
Sev.	Northern
Sev.-Zap.	North Western
Zap	Western
Ts.N.Ch.Zem	Central non chernozem
Ts.Prom. (Tsent. Prom.) (C.Ind.)	Central Industrial
Prioz.	Lake regions (Leningrad Oblast)
Kar.	Karelia ASSR
SCR	Southern Consumer Region
ZSFSR	Transcaucasian Union of Federated Socialist Republics
Arm. SSR	Armenian SSR
Georg. SSR	Georgian SSR
Azerb. SSR	Azerbaidzhan SSR
C. Asia	Central Asian Republics
Turkmen ASSR	Turkmenstan ASSR
SPR	Southern Producer Region
Uk SSR	Ukrainian SSR
Krym ASSR (Crim.)	Crimean ASSR
N.Cauc. (Sev. Kavkaz)	North Caucuses
Dag.ASSR	Dagestan ASSR
Yug.Vost. (Yugo-Vostok)	South East
Azov Chern.	Azov Chernomorskii Krai (Azov-Black Sea
CPR	Central Producer Region
Ts.Ch.Zem (C.Cherno Zem)	Central Chernozem
N.Volga	Lower Volga
Sred. Volga (S.Volga)	Central Volga
Ts.Zem.	Central Agricultural
Tat.ASSR	Tatar ASSR
Chuv. ASSR	Chuvash ASSR
Bash. ASSR	Bashkir ASSR
EPR	Eastern Producer Region
Zap.Sib.	Western Siberia
Vost,Sib.	Eastern Siberia
DVK,	Far Eastern Region
Kaz.SSR	Kazakh SSR
Kirg.ASSR	Kirgiz ASSR
Bur.Mong. ASSR	Buryat Mongol ASSR

Abbreviations (non geographical)

Gosplan	State Planning Commission
GSB	Gubernia Statistical Bureau
GSK	Gubernia Statistical Committee (pre-revolutionary)
hh	Household
IKSS	Executive Committee of the Statisticians Congress
KNP	Commission of National Food Supply (at Uezd level) (pre-revolutionary)
Kolkhoz	Collective Farm
MGI	Ministry of State Property (pre-revolutionary)
MVD	Ministry of Internal Affairs (pre-revolutionary)
MZem	Ministry of Agriculture (pre-revolutionary)
NEP	New Economic Policy
NKProd	Peoples Commissariat of Food Supply
NKPS	Peoples Commissariat of Transport and Communications
NKRKI	Peoples Commissariat of Workers Peasants Inspectorate
NKTorg	Peoples Commissariat of Trade
NK Trud	Peoples Commissariat of Labour
NKVD	Peoples Commissariat of Internal Affairs
NKYust	Peoples Commissariat of Justice
NKZem	Peoples Commissariat of Agriculture
Obstatburo	Oblast Statistical Bureau
SB	Statistical Bureau
SES	Statistical and Economics Section of Gosplan
SNK	Council of Peoples' Commissars
Statplan	The Statistical Planning Sector of TsSU
STO	Council of Labour and Defence
TsSK	Central Statistical Committee (pre-revolutionary)
TsSU	Central Statistical Administration

TsUNKhU	Central Administration for National Economic Accounts
UEK	Uezd Expert Commission
UStatburo	Uezd Statistical Bureau
VSNKh	Supreme Council of the National Economy
VTsSPS	All Union Central Council of Trade Unions

Weights and measures

Wherever convenient the weights and measures used in this thesis have been converted into metric units using the following conversions.

a) Weights

1 pud = 16.38 kgms. = 0.01638 tons (all tons referred to are metric tons)

1 zolotnik = 4.25 gms.

b) Area

1 desgatina = 1.093 hectares

= 2.703 acres

c) Volume

1 chetvert =

The conversion of a volume measurement of grain into its weight measurement depends upon the average density of the grain. The density of the grain differs for different grains and for different conditions (see appendix p.)

GLOSSARY

This glossary includes both English and Russian words which appear in the text. They are presented here in the form in which they most frequently occur. Most of the Russian terms were initially translated the first time they appeared in the text.

Bednyak	Poor peasant
Chastnovladelcheskii	Privately owned e.g. land as distinct from communally owned (see nadelnii)
Contract system (Kontraktatsiya)	A forward contract in which the peasants agreed to sell agricultural produce at a fixed price, and the state agreed to provide industrial goods. The peasants often also agreed to use more advanced techniques of production.
Expert Commissions (Ekspertniye Komissii)	Commissions of officials and specialists involved in grain production and requisitioning, who scrutinised all available materials on local grain production and utilisation in order to orientate requisitioning and later procurement operations. These commissions existed at the uezd and raion level in the early 1920s. By 1925 an inter-departmental expert commissi also existed at the all union level. In 1926 the central commission was replaced by an Expert Council.
Expert Council (Ekspertny Sovet)	A central council comprised of the representatives of different agencies involved in grain production, the grain trade and grain evaluation which after 1926 was responsible for the evaluations of grain production and its utilisation. It was presided over by the director of TsSU or one of his deputies.
Gorsovet	Town Soviet
Gubernia	A unit of local administration see p.
Intandanstvo	The administration concerned with provisioning the army before the revolution.
Kulak	Rich peasant. Normally a very elastic definition.

Meshochniki	Bag traders, illegal speculators in small amounts of goods.
Nadelnii	Allotment ownership as distinct from private ownership.
Natichnii	On hand e.g. with reference to population data, this covers those actually present as opposed to merely registered.
Oblast	A unit of local administration see p.
Okrug	A unit of local administration see p.
Otkhodnik	Migrant labourer
Ozadki	Parts of grain, normally lost during threshing, but included in some calculations of grain production.
Razverstka	Requisitioning according to plan drawn up after estimation of needs and surpluses of producer's household.
Raion	A unit of local administration see p.
Revizii	Early primitive form of population census initially instituted by Peter the Great.
Sam	A measure of yields in terms of production per unit sown.
Samogon	Home made alcohol.
Serednyak	Middle peasant. Normally a very elastic definition.
Special Council on Food Supply (Osoby Sovet po prodovolstviya)	Sometimes referred to as Special Food Council One of a series of councils set up during the war to organise specific aspects of the economy.
Starosta	Elder
Ugodiya	Land use
Uezd	A unit of local administration see p.
Volost	A unit of local administration see p.
Zemstvo	Pre-revolutionary organ of local rural administration.

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