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LEAGUE OF NATIONS  
HEALTH SECTION

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EPIDEMIOLOGICAL INTELLIGENCE

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EPIDEMIC DISEASES  
IN EASTERN AND CENTRAL EUROPE  
MAY - DECEMBER 1922

N° 6

GENEVA  
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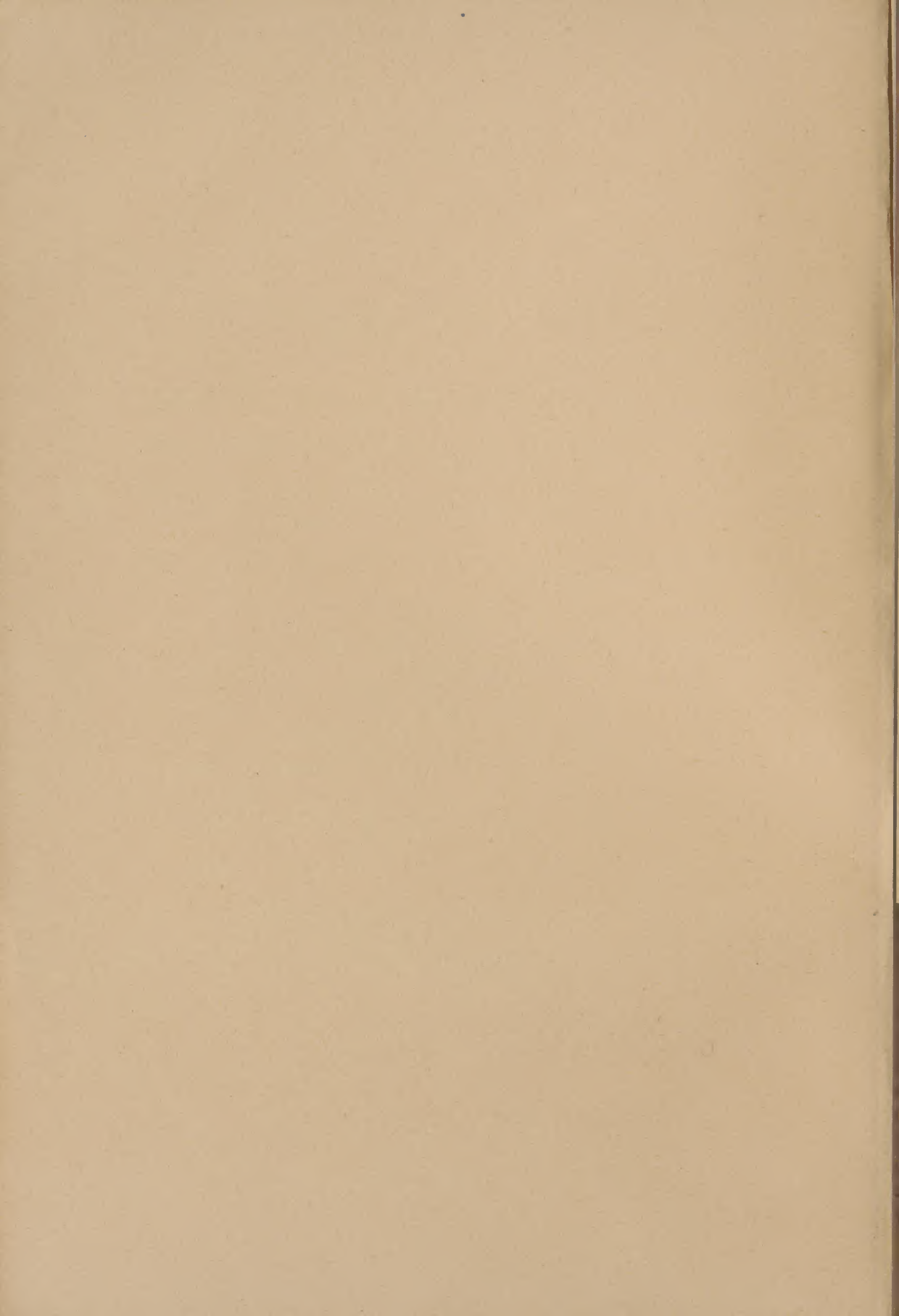


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NOTES ON THE EPIDEMIOLOGY OF 1922.

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Remembered that the statements here made are based on the number of cases *notified*. While actual comparisons between countries are generally impossible, the reports indicate roughly the chronological movement of the diseases within comparable areas.

Briefly summarised, the comparison between 1921 and 1922, in so far as the reports have been received, is as follows :

The incidence of *typhus* and *relapsing fever* was fully twice as great in 1922 as in 1921 in *Russia*, the extremely high epidemic wave having occurred in 1921-1922. This wave was quite double the 1920-1921 wave but was less than half as great as the second wave of 1919-1920, judging from the number of cases reported. In *Poland* no improvement in 1922 over 1921 was noted for typhus, the prevalence of relapsing fever has greatly increased. In *Lithuania*, typhus increased and relapsing fever showed no considerable change. In *Latvia* there was apparently an increase of typhus and a decrease of relapsing fever. In other countries decreases are shown, but the total number of cases reported are relatively small.

## NOTE

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The tables of cases of disease in this report combine the data in groups of five weeks for March, May, August and November, and of four weeks for the other months, for those countries which publish weekly reports, namely, England and Wales, the Netherlands, Switzerland, Germany, Austria, Italy, Danzig and Poland. The Russian data are received in this form only.

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## NOTES ON THE EPIDEMIOLOGY OF 1922.

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In Central and Eastern Europe, the outstanding feature of the epidemiological situation in 1922 as compared with the previous year was the extremely high prevalence of typhus and relapsing fever in Russia, an increase of cholera in the Ukraine and a serious increase in the prevalence of malaria in Russia, especially of the tropical type. Russia remained the centre of devastating epidemics which were even more severe in 1922 than in 1921. In Poland the typhus situation, while far less serious than in Russia, showed no marked improvement in 1922, and the incidence of relapsing fever increased. In most of the other countries the reports showed a decrease of these diseases.

It is too early at this date (February 15th, 1923) to make any forecast for 1923. There are many unknown factors, and the statistical reports are so incomplete for recent months that it would not be of much value. For Eastern Europe, at any rate, it would be rash to predict a return to anything like the normal prevalence of the diseases which have appeared in epidemic form with more or less regularity for the past few years.

### SUMMARY.

This report deals in some detail with the situation of the most important epidemic diseases in Eastern and Central Europe, namely : typhus and relapsing fever, asiatic cholera, dysentery, small-pox, plague, epidemic diseases of the central nervous system, malaria and enteric fever. It should be remembered that the statements here made are based on the number of cases *notified*. While actual comparisons between countries are generally impossible, the reports indicate roughly the chronological movement of the diseases within comparable areas.

Briefly summarised, the comparison between 1921 and 1922, in so far as the reports have been received, is as follows :

The incidence of *typhus* and *relapsing fever* was fully twice as great in 1922 as in 1921 in *Russia*, another extremely high epidemic wave having occurred in 1921-1922. This wave was quite double the 1920-1921 wave but was less than half as great as the second wave of 1919-1920, judging from the number of cases reported. In *Poland* no improvement in 1922 over 1921 was noted for typhus, and the prevalence of relapsing fever has greatly increased. In *Lithuania*, typhus increased and relapsing fever showed no considerable change. In *Latvia* there was apparently an increase of typhus but a decrease of relapsing fever. In other countries decreases are shown, but the total number of cases reported are relatively small.

With the exception of the Ukraine and the Russian Black Sea littoral, the *cholera* situation improved considerably in 1922. In *Russia*, exclusive of the Ukraine, the number of cases reported in 1922 was about one-fourth of those reported for 1921 since the great epidemic in South Russia of 1921 had come to an end. In the *Ukraine*, however, a serious epidemic occurred in 1922 ; the number of cases in July (the highest month) of 1922 was four times as large as in July 1921. While small outbreaks were reported in a few localities in other countries, no serious epidemics were noted.

Notifications of *dysentery* probably mean nothing more than certain intestinal infections with similar clinical symptoms, but the prevalence of the disease in 1922 was apparently considerably less than in 1921 in all the countries concerned. Even in *Russia*, for which the reports are extremely incomplete, there is no evidence of unusual prevalence.

*Smallpox* declined in 1922 in all countries where it was markedly prevalent during the preceding year although its incidence was still high in *Russia*.

No unusual prevalence of *plague* was noted.

The reports for the *epidemic diseases of the central nervous system* did not indicate any unusual prevalence during 1922 in the few countries in which these diseases were reported ; Germany, in regard to cerebro-spinal meningitis, was, however, an exception to this rule.

*Malaria* assumed more alarming proportions in *Russia* during 1922, and the situation was rendered even more serious by the appearance of the tropical type in *Eastern Russia*. The million and more cases actually reported for *Russia* represent a small proportion of the cases which must have actually occurred.

The incidence of *enteric fever* was less during 1922 than during the preceding year in nearly all European countries.

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## 1. TYPHUS AND RELAPSING FEVER.

The information received by the People's Commissariat of Health at Moscow up to January 15th, 1923, regarding the number of typhus and relapsing fever cases in *Russia* up to and including the month of November, give a clear impression of the course of the past wave.

With the month of September the annual cycle of the two diseases is completed, and in October or November their incidence usually begins to increase. The epidemic of the winter and spring of 1922 was the fourth abnormally high wave of typhus and the third wave of relapsing fever.

The following tables indicate the course of typhus and relapsing fever in *Russia* for the past four years and in *Poland* for the past three years. The figures illustrate the consecutive epidemic waves, but it must be remembered that the data for the earlier years are less complete than those for 1921 and 1922 ; various returns are missing, notably for the *Ukraine* and the *Caucasus* for 1918 and 1919 and for the eastern provinces of *Poland* up to April 1921.

Both diseases were about twice as prevalent in the winter of 1921-1922 as during the previous year, and the incidence of both, and particularly of relapsing fever, remained high in 1922 much later

in the season than usual. For instance, in the five governments of Southern Ukraine, 27,928 cases of relapsing fever were notified in June 1922 and 24,751 cases in July, as against 22,302 in February, which is usually the month of maximum incidence.

CASES OF TYPHUS AND RELAPSING FEVER NOTIFIED IN RUSSIA, 1918-1922.

<i>Typhus</i>					
Months	1918	1919	1920	1921	1922
January . . . . .	7,157	101,763	718,557	113,580	170,494
February . . . . .	7,496	196,374	839,333	116,113	207,251
March . . . . .	13,623	319,322	816,991	101,343	280,688
April . . . . .	13,942	328,339	532,708	85,232	214,250
May . . . . .	12,149	302,991	380,280	62,179	226,873
June . . . . .	10,472	215,851	199,497	35,615	125,885
July . . . . .	6,701	129,285	102,377	18,725	60,275
August . . . . .	4,182	62,866	55,918	13,048	31,185
September . . . . .	4,182	52,099	50,339	13,494	18,515
October . . . . .	6,898	90,099	52,197	19,925	17,199
November . . . . .	12,346	152,758	75,771	44,326	15,467
December . . . . .	34,650	297,548	106,614	86,005	3,839*
Period not stated . . . . .	—	90,396	31,619	1,574	30,762
Total . . . . .	134,057	2,339,691	3,962,201	711,159	1,402,683

<i>Relapsing Fever</i>					
Months	1918	1919	1920	1921	1922
January . . . . .	1,294	9,837	262,480	181,050	184,092
February . . . . .	956	13,181	345,309	153,126	191,279
March . . . . .	1,658	19,746	339,343	120,238	222,808
April . . . . .	2,398	15,063	206,834	84,010	160,439
May . . . . .	2,356	16,967	186,369	59,884	177,586
June . . . . .	1,507	17,226	148,045	53,607	138,496
July . . . . .	1,275	20,949	100,373	40,692	112,203
August . . . . .	819	20,022	90,043	32,694	87,059
September . . . . .	796	24,956	76,238	33,928	52,748
October . . . . .	907	52,920	88,082	53,299	41,346
November . . . . .	1,063	72,485	128,371	91,388	22,867
December . . . . .	2,096	118,737	182,500	115,821	4,737*
Period not stated . . . . .	—	6,200	24,124	1,000	44,113
Total . . . . .	17,125	408,289	2,178,111	1,020,737	1,439,773

\* Incomplete data for two weeks only.



CASES OF TYPHUS AND RELAPSING FEVER NOTIFIED IN POLAND, 1919-1922.

Months	<i>Typhus</i>				<i>Relapsing fever</i>		
	1919	1920	1921	1922	1920	1921	1922
January . . . .	14,207	34,530	5,183	6,462	1,773	968	6,299
February . . . .	17,061	25,858	6,090	7,041	311	790	9,228
March . . . . .	23,272	27,843	6,461	8,587	381	917	8,404
April . . . . .	28,190	24,616	8,624	5,332	286	2,233	3,960
May . . . . .	33,929	24,339	5,341	5,819	746	846	3,566
June . . . . .	20,445	12,329	2,712	2,849	276	780	2,511
July . . . . .	22,287	5,366	2,364	1,220	305	808	1,721
August . . . . .	14,735	1,388	927	754	107	482	1,534
September . . . .	11,986	1,650	860	461	455	680	824
October . . . . .	12,980	2,195	927	515	620	510	725
November . . . .	12,382	3,013	1,746	900	871	1,558	858
December . . . .	18,333	4,576	3,600	852	948	3,577	615
Total . . . . .	229,807	167,703	44,835	40,792	7,079	14,149	40,045

The value of the Russian data has been discussed at length by Prof. Tarassevitch in *Epidemiological Intelligence* Nos. 2 and 5. Russian experts admit that the actual number of cases is considerably higher than the returns indicate, and notably so in the more remote parts of the Federation. Several months generally elapse before the figures become definitely established, because returns from many rural districts arrive late. Siberian data are thus, at the time of writing, only available for the first four months of the year, and no returns have been received, as yet, for August or later months from the governments of Olonetz, Rybinsk, Terek and the republics of Daghestan and Azerbeidjan.

Although frequently incomplete, the data are of decided value, at least for typhus, relapsing fever and cholera, and the effect of various errors can be reduced by proper statistical analysis. In *Epidemiological Intelligence* No. 1 the Red Army statistics were indicated as a useful index for the epidemic situation in Russia, but the publication of sanitary statistics for the army was, unfortunately, discontinued some months ago. Significant and fairly exact results can be obtained, however, by comparing the incidence of typhus with that of relapsing fever. This analysis does not show the actual number of cases, but it does throw light on the relative movement of the two diseases. The ratio thus established is less influenced by incomplete notification, missing returns for rural districts, etc., than are the actual figures, because the sources of error affect the figures for both diseases, if not to the same extent, at least in the same direction.

Typhus and relapsing fever both reach their maximum incidence normally in the winter months, but the curve of seasonal incidence described by typhus is, as a rule, steeper than that of relapsing fever, the latter continuing later in the summer. The ratio of typhus cases to relapsing fever cases was for the whole of Russia 0.42 in September 1921 and rose gradually during seven months to a maximum of 1.34 in April, falling again regularly for the next five months to 0.35 in September 1922 (see Annex 2). It is noteworthy that the abnormally high incidence of these diseases in June 1922 (evidently due to the famine conditions) did not influence the normal ratio of the two diseases. Typhus is relatively highest in the north and relapsing fever in the south, but the ratio of typhus to relapsing fever is everywhere highest in April and May (see diagram No. 1).

The figures in Annex 1 show that typhus reached its greatest intensity in three areas: (1) in a belt stretching in a curve running north-west from the Northern Ural Mountains to Marxstadt on the Volga; (2) in the Central and Southern Ukraine; (3) in the region round Moscow.



The prevalence of relapsing fever was greatest in the Ukraine and in the Ural Mountains, where from 20 to 35 cases of this disease per 1,000 inhabitants were recorded in most governments. The two diseases have clearly been most prevalent in and near the famine area.

A direct comparison between the years 1921 and 1922 is still more difficult to obtain because in some places the quality of the notification has varied from year to year. It seems certain, however, that both typhus and relapsing fever have decreased considerably in Western Russia with the possible exception of Petrograd. Practically all the remainder of Russia shows a marked increase. Typhus more than tripled both in the Ural region and in the Ukraine, where a marked increase has occurred. Typhus was more than four times higher in Moscow than in 1921. Relapsing fever has increased particularly in the Central Ukraine, and in Eastern and Central Russia; in Moscow it has tripled. Relapsing fever is reported to have been more fatal than during the former epidemics, and various serious complications, notably of intestinal form, have frequently been mentioned (see also *Epidemiological Intelligence* No. 5, pages 26-27).

Returning to the relative incidence of typhus and relapsing fever in 1921 as well as in 1922, relapsing fever was far more prevalent than typhus in the south, while typhus was commoner in the north. There is frequent confusion in the diagnosis of the two diseases, but this can hardly account for the fact that south of latitude 50° N., roughly speaking, twice as many cases of relapsing fever as of typhus are notified, while north of latitude 56° N. the proportion is inversed. The concentration of relapsing fever in the southern belt was most pronounced in the central part of the Kirghiz Republic, where its ratio to typhus exceeded 3 to 1; further to the east, in Semipalatinsk, Siberia and Turkestan it decreased again. From Bukeyev west to Ekaterinoslav the ratio exceeded 2 to 1, and in the whole of the Ukraine, with the exception of Odessa, and in the central Black Soil district, relapsing fever exceeded typhus. From the six eastern provinces of Poland, more relapsing fever cases than typhus cases were returned, while in the remainder of Poland and in the other border States, relapsing fever was rare.

When comparing the ratios for the two years in question, it is seen that the geographical distribution of the two diseases tends to become more identical; relapsing fever has increased more rapidly in the north than typhus, while the reverse is the case in the south. It is evident that both diseases have gained new territory in 1922, typhus spreading southwards and relapsing fever northwards.

The prevalence of typhus and relapsing fever in the countries west of Russia is indicated in the following table, where the present year's incidence is compared with that of 1921.

CASES OF TYPHUS AND RELAPSING FEVER NOTIFIED IN 1921 AND 1922.

Country	Months	<i>Typhus</i>		<i>Relapsing fever</i>	
		1921	1922	1921	1922
Finland . . . . .	I-XII	32	1	2	1
Esthonia . . . . .	I-XII	345	163	19	91
Latvia . . . . .	I-XII	1,288	1,480	275	116
Lithuania . . . . .	I-XII	3,004	3,409	1,301	910
Poland . . . . .	I-XII	44,835 *	40,792	14,149 *	40,045
Germany . . . . .	I-XII	640	386	53	31
Czechoslovakia . . . . .	I-XII	948	417	13	35
Austria . . . . .	I-XII	63	23	—	—
Kingdom of the Serbs, Croats and Slovenes . .	I-XI	1,054	92	—	1
Constantinople . . . . .	I-XII	204	195	155	1

\* Data for the three Eastern provinces of Poland are missing for January-March 1921.

The incidence of typhus did not increase greatly in Central Europe in comparison with the previous year. Relapsing fever, on the other hand, has increased in certain localities and notably so in Eastern Poland. The sudden increase of the latter disease in Poland is closely connected with the refugees and others returning from Russia, as shown in Diagram 2. From January to June 1922, 170,194 persons were repatriated from Russia, passing the Polish quarantine stations, chiefly Baranovicze, and a high morbidity constantly prevailed. The most prevalent diseases were relapsing fever, of which 3,887 cases were recorded, and typhus, of which 1,780 cases were treated in the hospitals at the quarantine stations, giving for those two diseases alone a rate of incidence of 33.8 per 1,000 repatriated. The case fatality among them was high: 11.4 % for relapsing fever and 13.8 % for typhus. The close coincidence of typhus, and particularly of relapsing fever, with the number of repatriated settled in each province, suggests the eastern origin of the epidemic. Relapsing fever was confined practically to the six eastern provinces, the incidence reaching nowhere else as much as one case per 10,000 inhabitants.

An interesting suggestion is afforded by Diagram 2: namely, that the indicated case fatality continued to rise regularly during the months preceding the crest of the epidemic and then returned gradually to its former level. The movement was particularly marked in the case of relapsing fever, where the fatality increased from 1.7 registered deaths per 100 notified cases in September 1921 to 5.2 in December and January; but in July 1922 a new minimum of 2.2 had been reached.

A definite forecast can hardly be given for the present winter since data for December are not available in complete form, but certain indications may be furnished by the following table, in which are included only those governments from which data have been received for each of the months September, October and November, for 1921 as well as for 1922.

INCIDENCE OF TYPHUS AND RELAPSING FEVER IN THIRTY-SIX GOVERNMENTS OF EUROPEAN RUSSIA, SEPTEMBER-NOVEMBER 1921 AND 1922.

Region	No. of governm.		<i>Typhus</i>			<i>Relapsing fever</i>		
	Available.	Incomplete.	Sept.	Oct.	Nov.	Sept.	Oct.	Nov.
Western . . . . .	4	3	162 <i>297</i>	211 <i>398</i>	234 <i>641</i>	200 <i>440</i>	290 <i>767</i>	231 <i>811</i>
Northern . . . . .	8	1	985 <i>263</i>	832 <i>394</i>	1,245 <i>1,020</i>	710 <i>156</i>	487 <i>195</i>	580 <i>414</i>
Central . . . . .	9	2	1,416 <i>1,221</i>	1,458 <i>1,703</i>	1,864 <i>2,342</i>	2,878 <i>1,508</i>	2,458 <i>2,176</i>	2,616 <i>3,311</i>
South-Central . . . . .	5	0	1,618 <i>1,527</i>	1,474 <i>1,636</i>	1,231 <i>1,397</i>	3,921 <i>4,803</i>	4,448 <i>4,753</i>	3,009 <i>4,711</i>
Middle Volga . . . . .	4	5	1,056 <i>658</i>	961 <i>777</i>	1,355 <i>1,281</i>	2,272 <i>843</i>	1,964 <i>1,498</i>	1,662 <i>2,477</i>
Eastern . . . . .	3	5	2,673 <i>487</i>	3,873 <i>1,374</i>	4,484 <i>3,168</i>	4,635 <i>970</i>	6,596 <i>2,214</i>	6,587 <i>2,818</i>
Southern . . . . .	3	8	165 <i>116</i>	222 <i>139</i>	294 <i>276</i>	1,169 <i>723</i>	963 <i>858</i>	998 <i>1,447</i>
Total . . . . .	36	—	8,075 <i>4,569</i>	9,031 <i>6,421</i>	10,707 <i>10,125</i>	15,785 <i>9,443</i>	17,206 <i>12,461</i>	15,683 <i>15,989</i>

Note: The data are on a basis of months of equal length. The figures in *italics* refer to 1921, those in ordinary type to 1922.

The table refers to 36 governments and autonomous territories of European Russia distributed throughout the various geographical regions with exception of the Ukraine; 24 governments and autonomous territories, besides the Ukraine, are excluded, the character of the data not warranting their

inclusion. It appears that the higher level of typhus and relapsing fever which existed throughout the summer continued into September and October, but the increase of both diseases was slower in 1922 than in the previous year, so that the November figures are about equal for the two years.

The incidence of typhus in 1922, taking the corresponding figure for 1921 as a unit, was 1.77 in September, 1.41 in October and 1.06 in November; the corresponding ratios for relapsing fever were 1.67 in September, 1.38 in October and 0.98 in November. It is possible, however, that additional returns for November may be received from some governments. It appears that typhus has increased more rapidly than relapsing fever, but the same was observed in 1921 and seems a normal condition.

A higher incidence of typhus in November 1922 than during the previous year is indicated in the eastern and northern regions, while its incidence is distinctly lower in the western region. Relapsing fever appears to be far more prevalent in the east than it was in 1921, while the returns for the other regions are, up to the present, lower than during November 1921.

While the data so far received are not alarming, they cannot be considered to constitute any definite indication as to the probable incidence of the two diseases during the whole of the current winter. The high prevalence during the past summer appears to have delayed the normal winter increase, which, nevertheless, may become serious at a later date.

## 2. ASIATIC CHOLERA.

The South-Russian cholera epidemic has come to an end, and it is now possible to describe its extent and character. Serious anxiety was caused by the rapid spread of cholera cases throughout nearly the whole of Russia during the winter and early spring of 1922 as well as by the high fatality rate. The rapid rate of increase which characterised the epidemic of 1921 did not occur, however, and the explosive outbreaks which are common with cholera during the summer months were largely confined to certain cities in the Black Sea region. In August the decline of the epidemic became evident, and in September only a few hundred cases were notified. In November only one case of cholera was reported in the Ukraine, and in December there were three cases.

The following table compares the progress of the cholera epidemics during 1921 and 1922 and, taking the corresponding figure for the previous year as a unit, shows the ratio for each month of 1922.

CASES OF CHOLERA NOTIFIED IN RUSSIA, 1920, 1921 AND 1922.

Months	<i>Russia (without the Ukraine)</i>				<i>The Ukraine</i>			
	1920	1921	1922	Ratio of 1922 to 1921	1920	1921	1922	Ratio of 1922 to 1921
January . .	697	133	244	1.8	36	2	328	164.0
February . .	716	97	230	2.4	115	2	232	116.0
March . . .	492	219	1,179	5.4	789	3	807	269.0
April . . .	876	838	1,112	2.3	316	62	1,323	21.3
May . . . .	603	3,354	3,648	1.1	83	212	5,610	26.3
June . . . .	592	30,948	7,819	0.3	378	2,048	7,818	3.8
July . . . .	2,754	85,171	11,746	0.1	2,405	5,341	22,052	4.1
August . . .	9,268	49,606	6,240	0.1	4,939	4,543	4,078	0.9
September .	4,238	12,703	593	0.0	1,810	1,664	119	0.1
October . . .	522	5,053	108	0.0	263	150	—	—
November . .	110	357	—	—	93	145	1	—
December . .	147	216	—	—	1	292	3	—
Not stated .	168	1,896	10,330	—	—	—	1,144	—
TOTAL . . .	21,183	190,591	44,049	0.2	11,228	14,464	43,515	3.0



The notification of cholera cases is far more complete in Russia than the notification of any other disease, but, unfortunately, a record of deaths from cholera which would have allowed a study of the case fatality is not available.

In the places where cholera was prevalent early in the year no sudden outbreak seems to have occurred during the summer, while in Odessa and in Astrakhan, where the situation became most serious, no case was observed until April. In the table below a few examples are given of the variations of the seasonal incidence observed in a number of governments.

CHOLERA CASES NOTIFIED IN CERTAIN GOVERNMENTS OF RUSSIA AND THE UKRAINE, 1921-22.

Month	Kiev	Poltava	Kharkov	Odessa	Astrakhan	Kuban
October . . . . .	2	2	28	50	0	24
November . . . . .	1	53	80	0	0	0
December . . . . .	184	103	5	0	0	0
January . . . . .	272	10	34	0	0	0
February . . . . .	0	52	39	0	0	4
March . . . . .	78	337	181	0	0	83
April . . . . .	66	527	275	52	11	91
May . . . . .	87	354	218	2,664	81	522
June . . . . .	168	211	417	3,465	1,018	1,590
July . . . . .	480	531	1,381	7,680	221	1,883
August . . . . .	163	112	241	1,534	16	1,145
September . . . . .	12	10	8	16	0	185
TOTAL . . . . .	1,513	2,302	2,907	15,461	1,347	5,527
Cases per 1,000 population . . . . .	0.4	1.0	1.2	8.1	3.5	1.9

Similar observations have been made in the previous years' cholera epidemics, and notably in 1920, for which the monthly totals are given in the table on page 11. Cholera was relatively prevalent that year during the winter season and early spring but declined in May; the following summer, outbreaks were not very large. The serious cholera epidemic in Odessa of midsummer 1922 forms an interesting contrast to the seasonal fluctuations of the disease in the same locality in 1920; a considerable outbreak occurred in March 1920 but had almost disappeared by June and July; a new increase was noted in August, which, however, did not even reach the level attained in March. The number of cholera cases observed during each month of 1920 in the government of Odessa were as follows:

January . . . . . 21	May . . . . . 24	September . . . . . 152
February . . . . . 74	June . . . . . 7	October . . . . . 65
March . . . . . 653	July . . . . . 10	November . . . . . 18
April . . . . . 84	August . . . . . 281	December . . . . . 0

The total incidence of cholera in the government of Odessa was only 0.7 per 1,000 population in 1920, as against 8.1 in 1922.

Much reliance has been placed by the Russian Health Administration in anti-cholera vaccination, and the experiment is interesting because of the vast scale on which it has been carried out. Anti-cholera vaccination is stated to have been successfully employed in 1921 in the army, but its use among civilians was negligible that year. During the current year not only has the entire army and the railway personnel been vaccinated and revaccinated, but over 12 million vaccinations were performed, of which, according to official statistics, 7 millions by the Russian Health Authorities, largely in the



Ukraine, and the remainder by the American Relief Administration, which operated particularly in the Volga and Ural region. Details of the vaccinations performed in each government are given in the table, Annex 3. The months in which the vaccinations under the control of the Health Administration were performed are stated to be as follows:

Month	1st injection	2nd injection	3rd injection	Total
January . . . . .	341	526	0	867
February . . . . .	4,387	4,274	0	8,661
March . . . . .	7,177	388	369	11,934
April . . . . .	39,310	20,715	6,737	66,762
May . . . . .	138,503	87,500	33,226	259,229
June . . . . .	396,791	219,588	76,089	692,468
July . . . . .	896,509	679,123	316,779	1,892,411
August . . . . .	598,276	441,890	283,674	1,323,840
Not stated . . . . .	1,279,641	937,424	494,029	2,785,525*
Total . . . . .	3,360,935	2,395,428	1,210,903	7,041,697*

The only new outbreak of cholera noted in September took place in Arkhangel, where 81 cases were notified; no case has occurred at Murmansk, so far as our records show, and as navigation to Arkhangel is now closed by ice, this outbreak is of no immediate importance to Western Europe.

The few cases of cholera recorded in Poland and in Roumania in July and August (see *Epidemiological Intelligence* No. 4) have not been followed by any further outbreaks, and real epidemics are now out of the question until next summer.

### 3. DYSENTERY.

Dysentery was far less prevalent in 1922 than during the previous year; the decrease is very marked everywhere in Europe, and particularly so in Poland and in Germany, where a serious outbreak in the Westphalian region occurred the previous year. Only very incomplete data have been received so far from Russia, but no information has arrived which would indicate any unusual prevalence of dysentery. Data for the Ukraine up to the end of September show a lower incidence than during 1921.

The incidence of dysentery in various countries, where it is now more or less endemic, is given below for 1922 and compared with the corresponding period of last year.

#### CASES OF DYSENTERY NOTIFIED IN CERTAIN COUNTRIES, 1921 AND 1922.

Country	Period	1921	1922
Germany	January-December	31,624	5,036
Czechoslovakia	January-December	8,525	1,315
Austria	January-November	4,593	1,136
Finland	January-December	391	209
Esthonia	January-December	1,199	329
Latvia	January-December	1,162	913
Lithuania	January-December	1,155	356
Poland	January-December	30,998	14,335
Ukraine	January-October	46,263	36,591

\* Including 74,431 vaccinations, the order of which was not stated.

Further details regarding the prevalence of dysentery during the current year are given in Table No. 4 (page 32). The notifications are generally incomplete and no distinction is made between the various types or causative agents, and the data relate merely to a group of intestinal infections with similar clinical symptoms.

#### 4. SMALLPOX.

Smallpox has not been very prevalent anywhere in Europe during the current year. In Russia its incidence appears to be only half of what it was last year; 45,436 cases were notified during the first ten months of 1922, as against 98,578 during the whole of 1921 and 158,505 in 1920. The decrease is marked in practically every government of Russia; in the Ukraine 9,009 cases were registered for the first ten months of the current year, as against 29,041 in 1921. The local health authorities ascribe this decrease to a vaccination campaign which has been conducted throughout the country.

In Poland the incidence of smallpox declined from a maximum of 446 cases in April to 31 cases in December. In Germany and elsewhere in Central Europe, smallpox has been almost non-existent during recent months. In Switzerland, on the other hand, 1,153 cases were notified during the whole year, and in England there were 1,003 cases in 1922; the cases were, however, mostly very mild.

#### 5. PLAGUE.

Plague has occurred in Russia only at Selo Fedosevka, on the Kalmuk Steppes, where 27 cases, of which 18 were fatal, were verified by a special enquiry in June, July and August, and in the Kirghis Steppes, where 23 cases suspected to be plague were reported in January. No further reports indicating the presence of plague in Russia have been received.

#### 6. EPIDEMIC DISEASES OF THE CENTRAL NERVOUS SYSTEM.

Encephalitis lethargica, acute poliomyelitis and meningococcal meningitis have not shown any considerable prevalence in 1922. Encephalitis lethargica, which in the previous years has attracted much attention, has been far less prevalent than during the two preceding winters. Compulsory notification of this disease is of recent date and not, as yet, generally adopted; reliable data are restricted, therefore, to half a score of countries, largely in the northern part of Europe. Fewer cases are known to have occurred in the Mediterranean countries than in Northern Europe; but cases have been observed as far south as Algeria, where twenty cases appear in the epidemic records for the last two years. An outbreak of a mild character occurred in the first months of the year in Northern Italy.

Such details as have been received regarding the prevalence of encephalitis lethargica are given in Table No. 12 (page 41) and its incidence is given below for a few countries where it was most prevalent and where data are available for three years.

CASES OF ENCEPHALITIS LETHARGICA NOTIFIED IN CERTAIN EUROPEAN COUNTRIES. 1920-1922.

Country	1920	1921	1922
Finland . . . . .	239	998	46
Sweden . . . . .	136	1,504	161
Norway (cities) . . .	9	55	7
Denmark . . . . .	194	135	36
England and Wales .	890	1,470	463
Belgium . . . . .	17	243	21
Switzerland . . . . .	984	154	62

Encephalitis lethargica reminds one, in respect of its present geographical distribution, of the first considerable outbreaks of acute poliomyelitis, which caused such severe epidemics in the Scandinavian countries in 1905 and 1911-12. In Southern Europe, up to the present, acute poliomyelitis has occurred only sporadically, in spite of the fact that, in Northern Europe and in America, the most favourable season for its development falls in the warmest months.

Cases of epidemic cerebro-spinal meningitis have been notified in nearly all countries of Europe, but they have been nowhere widespread. An increased incidence was noted in Germany, where 1,622 cases were reported in 1922, as against 696 cases in 1921. A certain increase is indicated also in Czechoslovakia, from 78 cases in 1921 to 215 cases in 1922.

7. MALARIA.

Malaria has now been considerably reduced in Central and Southern Europe, where new endemic centres had developed during the war. In Poland, for example, about 17,000 cases of malaria were notified in 1922, as against 53,000 in 1921.

Malaria has always been prevalent in the river valleys of Southern and Eastern Russia, but little information is available as to the actual incidence. In recent years new regions have become infected, and grave concern has been caused by the appearance of large numbers of severe cases of the tropical type in European Russia, where such forms were formerly rare. A Central Malaria Commission, as well as local commissions in the most affected areas, have been formed, therefore, with the object of gathering information on malaria and of studying possible means of controlling it. More than 1,000,000 cases of malaria were officially notified in 1922, but it appears from local sources that this represents only a small fraction of the actual incidence.

Turkestan is believed to have been the principal centre from which the epidemic has spread in its severe form. During recent years the artificial irrigation system of Turkestan has fallen into disrepair and about one-fourth of the whole area is said to have become mosquito-infected swamps; many villages are entirely abandoned because of the malaria. In 1921, 210,000 cases were officially notified, and 105,000 during the first ten months of 1922. The fact that 45,000 cases were returned by the Turkestan railway authorities in 1921 shows that the railway is an important factor in the spread of malaria from Turkestan to Russia.

Caucasia appears to be the hardest hit by malaria. In Georgia 300,000 cases were notified in 1921 and the epidemic is said to be still increasing; 177,000 cases were reported in Daghestan during the first eleven months of 1922; Azerbeidjan and the Mountain Republics are also seriously infected. In



the Government of Stavropol 110,000 cases were notified; in Terek the proportion of the population infected is reported to vary from 30 to 80% and the case fatality to average from 15 to 20%.

Very large numbers of malaria cases are also reported from the governments on the Middle and Lower Volga and the Don; very incomplete official statistics place the number of cases notified in this region at over 200,000. Blood examinations made in the government of Saratov indicated 26% of tropical forms in 1921 but 86% in 1922. The mass movement of refugees during the famine period has caused an unusual spread of malaria in and beyond this area. The considerable increase of malaria in Central Russia is also attributed to the refugee movements; in the government of Moscow 28,600 cases were notified during the first eleven months of 1922. Even the distant northern governments of Severodvinsk and Arkhangel recorded 10,000 and 6,000 cases of malaria, respectively, during the same period. 15,000 cases of malaria were notified on the waterways from January to July, and 77,000 cases on the railways from January to September. The months of maximum incidence were April, August and September; the autumn epidemic appears to have been more severe than the spring outbreak.

### 8. OTHER EPIDEMIC DISEASES.

The incidence of enteric fever, scarlet fever and diphtheria in various countries for 1922 is compared with the corresponding figures for 1921 in the table below; further details regarding these diseases are given in Tables Nos. 6, 8 and 9 (pages 34, 38 and 39 respectively).

CASES OF ENTERIC FEVER, SCARLET FEVER AND DIPHTHERIA NOTIFIED IN VARIOUS EUROPEAN COUNTRIES IN 1921 AND 1922.

Country	<i>Enteric fever</i>		<i>Scarlet fever</i>		<i>Diphtheria</i>	
	1921	1922	1921	1922	1921	1922
England and Wales . . . . .	2,925	2,460	101,368	107,924	51,397	52,197
Netherlands . . . . .	1,730	1,010	2,419	3,276	6,290	4,705
Switzerland . . . . .	383	340	2,647	2,270	6,222	4,409
Germany . . . . .	18,808	10,993	48,281	32,443	63,018	37,949
Czechoslovakia . . . . .	9,207	6,705	9,563	10,785	4,328	3,244
Austria . . . . .	4,097	2,172	3,868	2,323	3,634	2,498
Italy . . . . .	29,602	22,973	8,744	10,532	10,416	10,523
Denmark . . . . .	334	456	5,813	4,649	7,235	7,064
Norway (cities) . . . . .	568	191	434	812	1,794	784
Sweden . . . . .	813	911	6,939	10,710	12,286	6,548
Finland . . . . .	1,311	1,298	1,320	990	3,750	1,941
Esthonia . . . . .	1,256	854	1,393	594	771	522
Latvia . . . . .	1,431	1,011	1,532	1,598	964	698
Lithuania . . . . .	1,277	1,140	752	437	284	292
Poland . . . . .	25,296	19,509	23,865	13,225	3,436	3,719
Ukraine . . . . .	95,099	82,533	28,523	13,933	14,436	9,878
Russia . . . . .	316,622	192,480	77,534	35,697	25,216	18,222



The above diseases have been grouped together merely for the sake of convenience and the figures are not comparable for the several countries because of the differing standard of notification. It is of interest, however, to compare 1922 with the previous year for each country separately and particularly so in the case of enteric fever, the incidence of which shows in many cases some sanitary improvement. It is seen from the above table that enteric fever has decreased from 1921 to 1922 in all of these countries, and particularly so in Central Europe.

The figures of paratyphoid fevers are, unfortunately, only separated from those of typhoid fever in a few countries, and details regarding the type are only given in exceptional cases. The highest number of paratyphoid notifications were returned from Denmark, where there were 229 cases from January to November, as against 227 cases of typhoid fever; and from Switzerland, where there were 79 cases of paratyphoid fevers as against 261 cases of typhoid fever; in Esthonia 110 cases of paratyphoid fevers and 744 cases of typhoid fever; in Belgium 51 cases of paratyphoid fevers; in Czechoslovakia 45 cases; and in Latvia 27 cases. The cases in Czechoslovakia were given as 35 of type B, 7 of type A and 3 not specified. It may safely be assumed that these figures represent only a fraction of the incidence of paratyphoid infections.

This comparison is of less interest in the case of scarlet fever and diphtheria because these diseases move in more or less well-defined waves of several years' length; their prevalence, however, has not increased in Europe generally during the current year. In several countries they have both decreased, but there is no reason to assume that this will be permanent. Both diseases had their maximum incidence during the first three months of the year and declined until June or July, when a slow increase again began. This is in accordance with their normal incidence, although their seasonal concentration is far less marked than is the case, for instance, with typhus, relapsing fever, cholera or dysentery.

It is interesting to note the cases of anthrax reported from various countries of Central and Eastern Europe. In Germany 125 cases of human anthrax were notified in 1922, as against 80 cases in 1921; in Czechoslovakia 69 cases, in Poland 47 cases, and in Latvia 6 cases were officially notified in 1922. In the Ukraine 306 cases of human anthrax were notified from January to May.

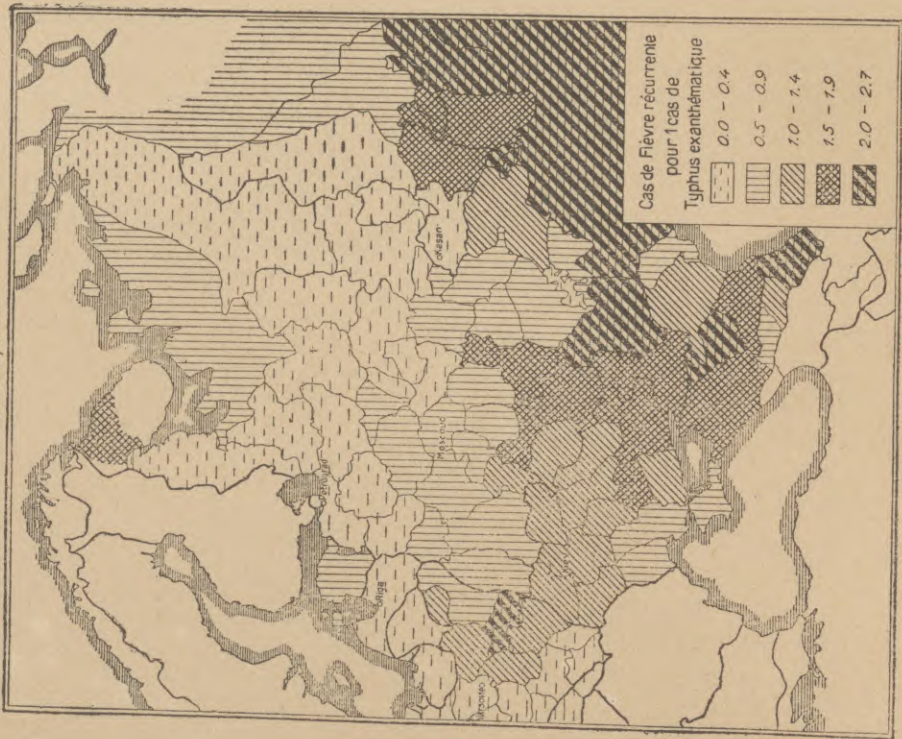
The figures given in previous numbers of *Epidemiological Intelligence* for typhus, relapsing fever, cholera, dysentery, smallpox and typhoid fever in Central and Eastern Europe are brought up to date in the following tables. A new table giving the number of malaria cases notified in Russia and Poland has been added. In addition to these regular tables, data for certain diseases of general European interest have been inserted. Acute poliomyelitis, encephalitis lethargica and influenza are given only for those few countries in which notification is compulsory.

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DIAGRAM No. 1.

Comparative Incidence of Typhus and Relapsing Fever in Russia.

I Distribution géographique  
Jan. - Sept. 1922



II Rapport des nombres de cas par mois en Russie  
de Sept. 1921 à Sept. 1922.

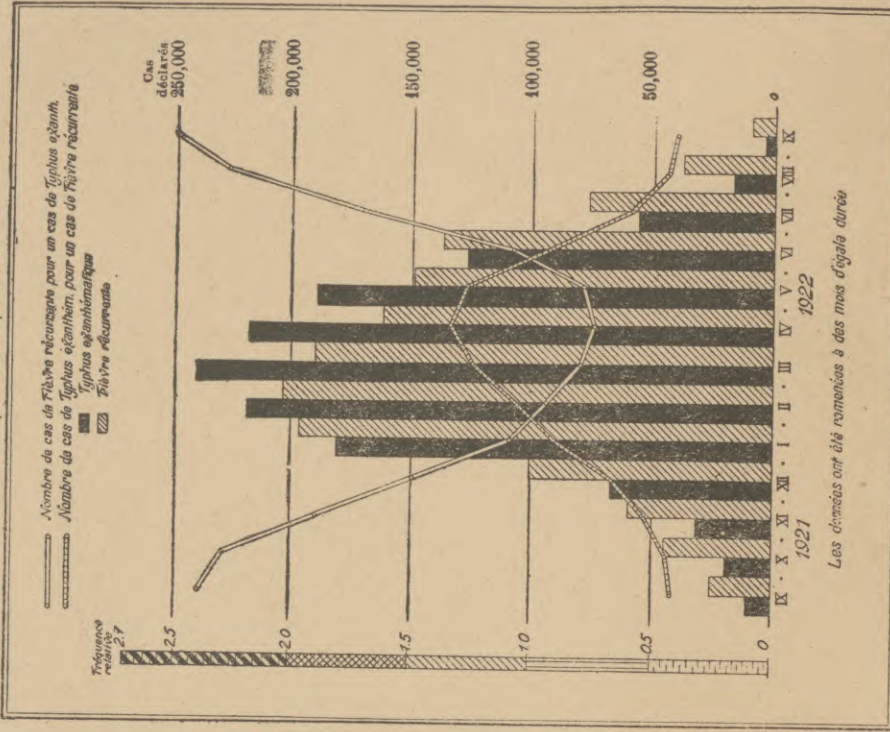
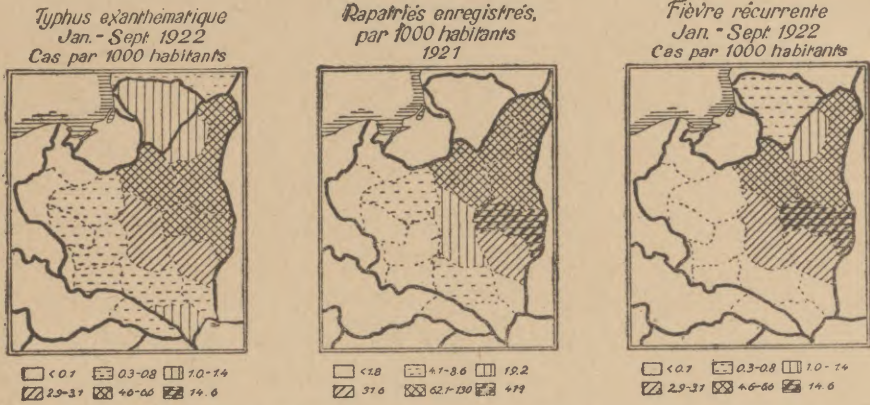


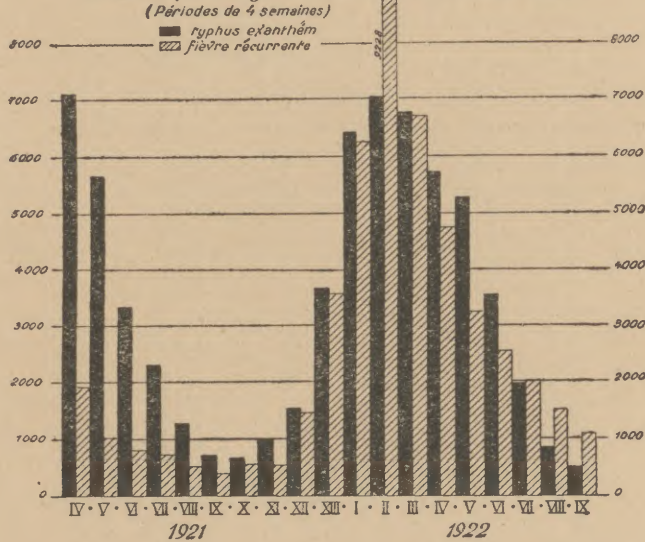


DIAGRAM No. 2.

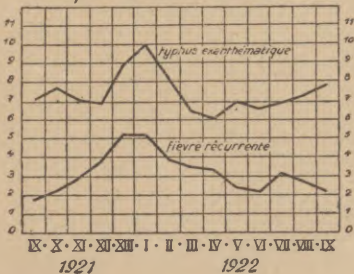
Incidence of Typhus and Relapsing Fever in Poland, 1921-1922.



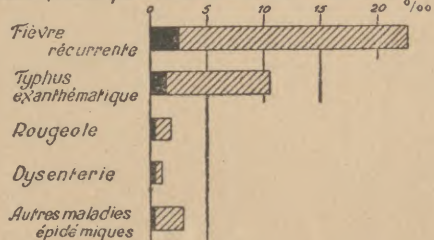
Cas de Typhus exanthématique et de Fièvre récurrente déclarés en Pologne. Avril 1921 - Sept. 1922



Nombre des décès enregistrés pour 100 cas déclarés



Cas de maladies épidémiques traitées dans les hôpitaux quaranténaires Jan. - Juin 1922



Note: La section noire représente le nombre de décès

ANNEX 1.

**Incidence and Mutual Relation of Typhus and Relapsing Fever in Russia, 1921-22.**

Governments	Incidence per 1,000 population				Ratio of 1922		Cases of Relapsing Fever		Ratio of Relapsing Fever increase to Typhus incr.
	Typhus		Relapsing Fever		Incidence to 1921		for each case of Typhus		
	1921	1922	1921	1922	Typhus	Relaps. Fever	1921	1922	
<i>Western Region:</i>									
Petrograd City . . . . .	5.1	10.2	7.9	6.0	2.00	0.76	1.5	0.6	0.38
Petrograd Gov. . . . .	1.8	3.7	1.1	1.4	2.10	1.24	0.6	0.4	0.59
Novgorod . . . . .	2.4	3.4	1.7	1.2	1.42	0.70	0.7	0.3	0.49
Pskov . . . . .	5.4	2.6	1.6	0.9	0.48	0.60	0.3	0.4	1.25
Vitebsk . . . . .	10.0	4.9	7.5	3.8	0.49	0.51	0.8	0.8	1.04
White Russian Rep. . . . .	20.5	7.4	20.4	7.5	0.36	0.37	1.0	1.0	1.03
Gomel . . . . .	9.1	6.3	8.3	4.4	0.69	0.53	0.9	0.7	0.77
<i>Northern Region:</i>									
Murmansk . . . . .	—	24.8	—	33.5	—	—	—	1.3	—
Karelian Comm. . . . .	4.1	10.9	0.9	4.6	2.69	5.40	0.2	0.4	2.01
Arkhangel . . . . .	6.5	4.1	6.9	2.9	0.84	0.67	1.1	0.7	0.80
Olonetz . . . . .	2.8	3.1	1.2	0.5	1.07	0.44	0.4	0.2	0.41
Cherepovetz . . . . .	3.8	3.6	1.8	1.2	0.94	0.71	0.5	0.4	0.76
Vologda . . . . .	4.0	9.6	1.0	4.5	2.43	4.54	0.2	0.5	1.87
Severodvinsk . . . . .	4.9	7.6	0.8	2.2	1.69	2.97	0.2	0.3	1.76
Zirian Region . . . . .	—	2.1	—	0.8	—	—	—	0.4	—
Kostroma . . . . .	2.9	7.1	0.7	2.4	2.44	3.27	0.3	0.3	1.34
<i>Central Region:</i>									
Rybinsk . . . . .	2.4	10.4	1.5	5.5	4.25	3.74	0.6	0.5	0.88
Yaroslavl . . . . .	7.0	16.3	1.9	6.1	2.33	3.16	0.3	0.4	1.36
Ivanovo-Vosniessensk . . . . .	2.4	7.5	1.7	3.7	3.10	2.19	0.7	0.5	0.71
Vladimir . . . . .	4.5	12.1	1.4	4.9	2.69	3.47	0.3	0.4	1.29
Tver . . . . .	5.7	5.3	2.1	2.4	0.93	1.16	0.4	0.5	1.25
Smolensk . . . . .	9.3	8.0	5.8	5.0	0.87	0.87	0.6	0.6	1.00
Moscow City . . . . .	4.2	17.9	5.1	17.2	4.29	3.35	1.2	1.0	0.78
Moscow Gov. . . . .	4.0	13.7	3.3	9.4	3.41	2.85	0.8	0.7	0.84
Kaluga . . . . .	7.0	14.1	5.5	8.7	2.00	1.57	0.8	0.6	0.79
Tula . . . . .	6.5	8.1	5.3	5.5	1.23	1.05	0.8	0.7	0.85
Riazan . . . . .	6.6	6.6	4.5	4.0	1.00	0.89	0.7	0.6	0.89
<i>South-Central Region:</i>									
Briansk . . . . .	4.6	8.9	9.5	12.4	1.92	1.31	2.0	1.4	0.68
Orel . . . . .	6.0	7.4	8.0	11.9	1.22	1.49	1.3	1.6	1.22
Tambov . . . . .	7.0	5.2	11.8	8.6	0.75	0.73	1.7	1.6	0.97
Voronezh . . . . .	3.2	3.7	6.5	6.7	1.16	1.02	2.0	1.8	0.98
Kursk . . . . .	7.8	8.4	7.8	9.1	1.08	1.17	1.0	1.1	1.08
<i>The Ukraine:</i>									
Volhynia . . . . .	1.8	3.1	3.4	4.5	1.75	1.33	1.9	1.5	0.76
Podolia . . . . .	1.7	4.4	5.0	7.5	2.56	1.52	2.9	1.7	0.59
Kiev . . . . .	1.4	5.2	2.7	7.8	3.80	2.85	2.0	1.5	0.75
Chernigov . . . . .	5.9	13.3	3.4	14.4	2.26	4.30	0.6	1.1	1.90
Kremenchug . . . . .	7.4	13.2	14.4	19.8	1.78	1.38	1.9	1.5	0.78
Poltava . . . . .	5.9	22.9	5.5	24.1	3.91	4.39	0.9	1.1	1.12
Kharkov . . . . .	7.9	9.8	10.7	13.4	1.24	1.26	1.3	1.4	1.02
Odessa . . . . .	7.9	34.0	19.7	22.6	4.30	1.14	2.5	0.7	0.27
Nicolaiev . . . . .	13.0	15.4	19.9	15.4	1.83	0.77	1.5	1.0	0.42
Ekaterinoslavl . . . . .	2.0	13.8	9.2	28.4	6.98	3.10	4.6	2.1	0.44
Zaporozhe . . . . .	3.9	15.5	12.0	23.0	3.97	1.91	3.1	1.5	0.48
Donetz . . . . .	3.0	9.2	15.2	16.7	2.73	1.10	5.1	2.0	0.40
Crimea . . . . .	7.0	20.1	8.9	10.2	2.87	1.15	1.3	0.5	0.40
<i>Middle Volga Region:</i>									
Nijni-Novgorod . . . . .	6.4	8.8	2.6	4.5	1.38	1.70	0.4	0.5	1.23
Mariskaia Reg. . . . .	—	22.3	—	8.8	—	—	—	0.4	—
Chuvach Reg. . . . .	3.1	9.8	3.0	6.9	3.19	2.29	1.0	0.7	0.72
Tartar Rep. . . . .	9.6	13.7	4.3	7.2	1.42	1.67	0.4	0.5	1.18
Simbirsk . . . . .	6.6	24.0	4.4	14.0	3.64	3.16	0.7	0.6	0.87
Penza . . . . .	7.3	15.2	6.3	14.3	2.07	2.26	0.9	0.9	1.09
Saratov . . . . .	6.7	13.1	5.4	8.4	1.95	1.56	0.8	0.6	0.80
Samara . . . . .	2.7	9.0	3.4	11.5	3.27	3.35	1.3	1.3	1.02
German Comm. . . . .	14.3	29.9	4.2	12.3	2.09	2.92	0.3	0.4	1.40

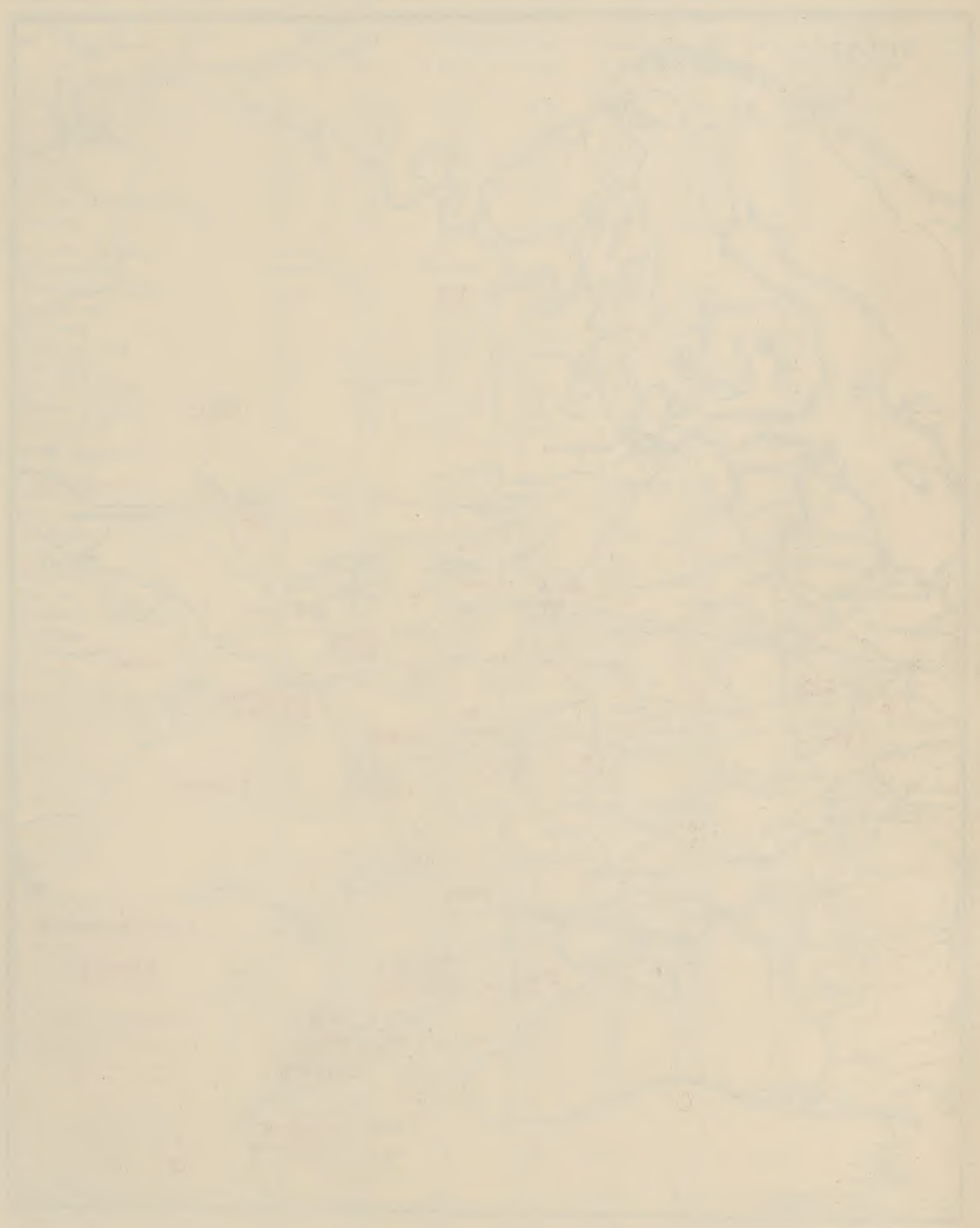


Cas de Paludisme constatés en Russie, 1922.

Cases of Malaria notified in Russia, 1922.



THE HISTORY OF THE  
CITY OF BOSTON





ANNEX 1 (continued).

**Incidence and Mutual Relation of Typhus and Relapsing Fever in Russia, 1921-22.**

Governments	Incidence per 1,000 population				Ratio of 1922		Cases of Relapsing Fever for each case of Typhus		Ratio of Relapsing Fever increase to Typhus incr.
	Typhus		Relapsing Fever		Incidence to 1921 Typhus	Relaps. Fever	1921	1922	
	1921	1922	1921	1922					
<i>Southern Region:</i>									
Tzaritzin . . . . .	1.8	4.5	6.1	9.0	2.51	1.47	3.4	2.0	0.59
Astrakhan . . . . .	—	10.1	—	9.2	—	—	—	0.9	—
Kalmuk Region . . . . .	—	8.4	—	8.6	—	—	—	1.0	—
Region of Don . . . . .	0.5	1.8	1.7	3.7	3.53	2.19	3.2	2.0	0.62
Kubano-Chernomorsk . . . . .	—	4.9	—	8.8	—	—	—	1.8	—
Stavropol . . . . .	1.3	2.9	3.3	7.5	2.23	2.27	2.5	2.6	1.02
Terek . . . . .	—	5.3	—	8.9	—	—	—	1.7	—
Daghestan . . . . .	—	2.1	—	5.0	—	—	—	2.4	—
Azerbeidjan . . . . .	—	2.5	—	1.8	—	—	—	0.7	—
Mountain Republics . . . . .	—	7.1	—	8.6	—	—	—	1.2	—
<i>Eastern Region:</i>									
Viatka . . . . .	9.9	17.3	2.8	6.1	1.74	2.20	0.3	0.4	1.26
Votyak Territory . . . . .	—	37.3	—	17.3	—	—	—	0.5	—
Perm . . . . .	8.4	26.8	2.2	9.8	3.19	4.50	0.3	0.4	1.40
Ekaterinburg . . . . .	7.2	26.7	9.6	30.6	3.72	3.18	1.3	1.1	0.85
Tiumen . . . . .	2.2	10.0	2.8	9.0	4.64	3.25	1.3	0.9	0.70
Cheliabinsk . . . . .	3.5	4.5	8.8	15.8	1.29	1.78	2.5	3.5	1.38
Bachkir Republic . . . . .	1.2	6.8	0.8	16.2	5.48	—	0.6	2.4	—
Ufa . . . . .	3.7	5.7	6.2	9.0	1.55	1.44	1.7	1.6	0.93
<i>Kirghiz Republic:</i>									
Bukeev . . . . .	—	0.5	—	1.5	—	—	—	2.9	—
Uralsk . . . . .	—	1.1	—	4.0	—	—	—	3.7	—
Orenburg . . . . .	—	12.8	—	34.6	—	—	—	2.7	—
Aktiubinsk . . . . .	—	3.5	—	8.7	—	—	—	2.5	—
Kustanai . . . . .	—	1.1	—	4.9	—	—	—	4.4	—
Akmolinsk . . . . .	—	2.8	—	11.6	—	—	—	4.2	—
Sempalatinsk . . . . .	—	6.0	—	6.1	—	—	—	1.0	—
Total . . . . .	0.9	4.5	3.6	10.9	5.26	3.04	4.2	2.4	0.58
<i>Turkestan:</i>									
Turkmen . . . . .	—	2.9	—	4.0	—	—	—	1.4	—
Syr Daria . . . . .	—	4.6	—	5.4	—	—	—	1.2	—
Samarkand . . . . .	—	2.3	—	1.5	—	—	—	0.6	—
Fergan . . . . .	—	1.0	—	0.2	—	—	—	0.2	—
Semiretchinsk . . . . .	—	1.5	—	1.8	—	—	—	1.2	—
Total . . . . .	1.4	2.3	2.2	2.3	2.77	1.68	1.7	1.0	0.61
<i>Siberia:</i>									
Omsk . . . . .	—	4.8	—	6.7	—	—	—	1.4	—
Tomsk . . . . .	—	6.7	—	8.5	—	—	—	0.8	—
Altai . . . . .	—	3.1	—	1.7	—	—	—	0.6	—
Ennessei . . . . .	—	8.0	—	6.5	—	—	—	0.8	—
Novo-Nicolaiev . . . . .	—	3.8	—	5.2	—	—	—	1.4	—
Irkutsk . . . . .	—	5.9	—	2.1	—	—	—	0.4	—
Total . . . . .	4.2	5.1	5.1	4.6	1.16	0.88	1.2	0.9	0.76
Railways . . . . .	—	—	—	—	3.77	2.05	1.6	0.9	0.61
Waterways . . . . .	—	—	—	—	—	—	0.8	0.4	—
Prisons . . . . .	—	—	—	—	1.71	1.09	3.7	2.3	0.64
Red Army . . . . .	—	—	—	—	0.44	0.32	3.4	2.5	0.73
Grand Total . . . . .	—	—	—	—	1.93	1.37	1.4	1.02	0.71





ANNEX 2.

**Number of Relapsing Fever Cases notified in Russia for each Case of Typhus  
from September 1921 to November 1922.  
Monthly Index for each Geographical Region.**

Month	Western	Northern	Central	South Central	Ukraine	Middle Volga	Southern	Eastern	Railways	Total, Russia
September . . . . .	1.79	0.59	1.14	3.15	4.76	1.53	6.22	1.74	4.23	2.40
October . . . . .	2.10	0.49	1.40	2.91	3.29	1.03	4.94	2.23	2.95	2.29
November . . . . .	1.99	0.40	1.30	3.37	2.98	1.30	3.74	1.31	1.96	1.90
December . . . . .	1.30	0.76	0.95	2.73	2.03	0.93	2.61	1.04	1.34	1.50
January . . . . .	0.90	0.52	0.78	1.77	1.29	0.66	1.50	0.73	0.96	1.08
February . . . . .	0.75	0.35	0.58	1.50	0.97	0.62	1.36	0.61	0.89	0.92
March . . . . .	0.55	0.30	0.46	1.18	0.92	0.57	1.34	0.55	0.84	0.79
April . . . . .	0.49	0.28	0.43	1.03	0.88	0.51	1.32	0.53	0.71	0.75
May . . . . .	0.45	0.27	0.47	1.21	0.99	0.59	1.50	0.52	0.83	0.78
June . . . . .	0.70	0.34	0.73	1.43	1.52	0.82	2.66	0.84	1.20	1.10
July . . . . .	1.32	0.80	1.13	2.19	2.58	1.38	3.37	1.33	2.15	1.86
August . . . . .	1.46	0.80	1.62	2.80	3.99	2.76	4.48	2.39	3.48	2.79
September . . . . .	2.00	0.72	2.06	2.42	4.28	2.47	5.42	2.25	3.51	2.85
October . . . . .	1.85	0.59	1.59	3.02	3.86	1.92	4.09	1.54	—	2.38
November . . . . .	1.06	0.47	1.40	2.45	—	1.18	2.86	1.44	—	1.50

ANNEX 3.

Number of Anti-Choleric and Anti-Typhoid Vaccinations performed by Russian Health Administration from January to August 1922.

Governments	1st Injection	2nd Injection	3rd Injection	Total	Tetra-vaccine distributed by the A. R. A.
<i>Western Region:</i>					
City of Petrograd . . . . .	12,408	9,637	26	22,071	91,165
Government of Vitebsk . . . . .	1,302	1,229	255	2,786	—
White Russian Republic . . . . .	9,093	87	0	9,180	300,000
<i>Northern Region:</i>					
Karelian Community . . . . .	45	45	40	130	
Arkhangel . . . . .	2,118	1,775	760	4,653	
Government of Severodvinsk . . . . .	1,349	1,033	0	2,382	
Zirian Region . . . . .	461	454	0	915	
<i>Central Region:</i>					
Government of Rybinsk . . . . .	300	120	0	420	
Vladimir . . . . .	3,733	1,107	29	4,869	
Tver . . . . .	2,743	2,223	2	4,968	
Smolensk . . . . .	5,307	2,419	0	7,726	
Moscow . . . . .	—	—	—	—	65,000
Tula . . . . .	3,437	2,306	353	6,096	
<i>South-Central Region:</i>					
Government of Orel . . . . .	9,941	6,551	0	16,492	
Tambov . . . . .	13,381	9,655	3,088	26,124	
Voronezh . . . . .	63,245	44,810	15,524	123,579	
Kursk . . . . .	13,478	6,892	1,336	21,706	
<i>The Ukraine:</i>					
District of Volhynia . . . . .	53,022	33,773	13,274	100,069	
Podolia . . . . .	65,256	44,015	31,445	147,016	
Kiev . . . . .	37,852	17,093	9,728	64,673	106,000 <sup>1</sup>
Chernigov . . . . .	35,000	20,726	14,508	70,234	
Kremenchug . . . . .	41,196	32,174	23,826	97,196	
Poltava . . . . .	111,676	71,703	43,246	226,625	
Kharkov . . . . .	67,008	51,403	28,542	146,953	250,000 <sup>2</sup>
Odessa . . . . .	192,039	146,862	107,905	446,806	155,898
Nicolaiev . . . . .	130,680	81,169	16,860	228,709	
Ekaterinoslav . . . . .	100,034	67,122	42,595	209,751	
Zaporozhe . . . . .	124,015	96,439	67,692	288,146	145,453 <sup>3</sup>
Donetz . . . . .	178,783	115,975	60,200	354,958	
Railway . . . . .	155,952	102,594	62,854	321,400	
Ukrevac . . . . .	25,501	10,912	1,325	37,738	
Military . . . . .	321,500	293,000	139,000	753,500	
Government not stated . . . . .	878,409	608,638	291,143	1,778,190	
<b>Total, Ukraine . . . . .</b>	<b>2,517,923</b>	<b>1,793,598</b>	<b>954,143</b>	<b>5,265,664</b>	

<sup>1</sup> Includes Podolia and Chernigov.  
<sup>2</sup> Includes Poltava and Kremenchug.  
<sup>3</sup> Includes Donetz.

ANNEX 3 (continued).

**Number of Anti-Choleric and Anti-Typhoid Vaccinations  
performed by Russian Health Administration from January to August 1922.**

Governments	1st Injection	2nd Injection	3rd Injection	Total	Tetra-vaccine distributed by the A. R. A.
<i>Crimea</i> . . . . .	80,288	80,288	80,288	240,864	15,000
<i>Middle Volga Region:</i>					
Tartar Republic . . . . .	—	—	—	57,098	526,368
Government of Simbirsk . . . . .	16,867	9,099	1,398	27,364	404,550
» » Penza . . . . .	2,943	2,313	1,553	6,808	
» » Saratov . . . . .	9,319	8,023	2,202	19,544	800,000
» » Samara . . . . .	12,363	10,991	108	23,462	585,806
German Communities . . . . .	228	288	44	500	
<i>Southern Region:</i>					
Government of Tzaritzin . . . . .	19,975	14,273	5,390	39,638	75,000
» » Astrakhan . . . . .	6,709	1,442	1,001	9,152	
» » Kalmuk Terr. . . . .	217	192	161	570	
Don Territory . . . . .	11,010	7,523	2,109	20,642	206,560
Kubano-Chernomorsk . . . . .	69,571	56,268	58,319	184,158	
Government of Stavropol . . . . .	1,291	615	448	2,354	
Terek . . . . .	5,602	5,215	268	11,085	
Cherkasse Republic . . . . .	1,068	930	451	2,449	
Kabardinsk . . . . .	—	—	—	10,000	
Gorskaia Republic . . . . .	13,225	10,002	347	23,574	
Azerbeidjan Republic . . . . .	43,810	28,081	0	71,891	
<i>Eastern Region:</i>					
Government of Viatka . . . . .	6,168	3,804	614	10,586	
Votyak Territory . . . . .	—	—	—	7,144	
Government of Perm . . . . .	14,662	6,232	1,507	22,401	
» » Ekaterinburg . . . . .	104,254	73,768	—	178,022	
» » Tiumen . . . . .	11,825	8,075	406	20,306	
» » Cheliabinsk . . . . .	56,474	42,588	9,088	108,150	
Bachkir Republic . . . . .	165,254	112,152	62,485	339,891	
Government of Ufa . . . . .	—	—	—	—	1,600,000
<i>Kirghiz Republic</i> . . . . .	22,968	9,800	2,879	35,647	75,000
<i>Turkestan Republic</i> . . . . .	24,580	19,585	4,281	48,446	
<b>Total, Russia</b> . . . . .	<b>3,360,935</b>	<b>2,395,428</b>	<b>1,210,903</b>	<b>7,041,697</b>	<b>5,401,800</b>



ANNEX 4.

**Composition of the Geographical Divisions of Russia adopted for the Statistical Tables of "Epidemiological Intelligence."**

Considerable difficulty has been experienced in finding suitable limits for a geographical division of Russia into zones which are more or less homogeneous, at least from an epidemiological point of view. European Russia, which is one vast plain interrupted by no mountain chain or other considerable natural barrier of consequence, presents no sudden transitions neither ethnologically, anthropologically, economically nor epidemiologically, but the various groups are welded together through an infinite number of shadings.

One division of real importance is the region of the Black Soil in the south and the region of the Simple Soil to the north, a division which is frequently used in recent statistical reports published by Soviet Authorities. The Region of Simple Soil is given as 790,000 square miles with 28,967,000 inhabitants, and the Region of Black Soil as 400,000 square miles with 31,197,000 inhabitants without counting the Ukraine.

Various divisions have been proposed by Russian economic authors based upon the predominant industries and the different agricultural methods ; an interesting discussion of the problem with a definite economic division is found in the report of the "Sub-Commission on the Division in Regions of the General Commission of Planning (Obstche Planovaia Kommissia)", under the Board of Labour and Defence, Moscow, 1921.

Neither of these divisions is suited for epidemiological purposes, and a somewhat different grouping has been adopted for this series of publications. A few changes appearing desirable, the composition of the regions now adopted is given in detail below. It should be noted that these regions have no historical basis but are arranged primarily with reference to the prevalence of various diseases and also to the value of the official morbidity statistics conforming these considerations, as far as possible, to geographical conceptions.

Region or Government	Population in thousands
<i>Western Region :</i>	
City of Petrograd . . . . .	706
Gov. of Petrograd . . . . .	894
"  Novgorod . . . . .	906
"  Pskov . . . . .	1,250
"  Vitebsk . . . . .	1,353
Rep. of White Russia. . . . .	1,634
Gov. of Gomel . . . . .	2,375
Total . . . . .	9,118

<i>Northern Region :</i>	
Murman Territory . . . . .	19
Karelian Community . . . . .	144
Gov. of Arkhangel . . . . .	361
"  Olonetz . . . . .	217
"  Cherepovetz . . . . .	632
"  Vologda . . . . .	913
"  Severodvinsk . . . . .	632
Zirian Region . . . . .	187
Gov. of Kostroma . . . . .	1,204
Total . . . . .	4,310

Region or Government	Population in thousands
<i>Central Region :</i>	
Gov. of Rybinsk . . . . .	771
"  Yaroslavl . . . . .	651
"  Ivanovo-Vosniessensk . . . . .	660
"  Vladimir . . . . .	1,288
"  Tver . . . . .	1,813
"  Smolensk . . . . .	2,026
City of Moscow . . . . .	1,028
Gov. of Moscow . . . . .	1,666
"  Kaluga . . . . .	955
"  Tula . . . . .	1,725
"  Riazan . . . . .	2,158
Total . . . . .	14,741

<i>South-Central Region :</i>	
Gov. of Briansk . . . . .	983
"  Orel . . . . .	1,515
"  Tambov . . . . .	3,395
"  Voronezh . . . . .	3,063
"  Kursk . . . . .	2,713
Total . . . . .	11,668

(Continued)

Region or Government	Population in thousands
<i>The Ukraine:</i>	
Dist. of Volhynia . . . . .	1,712
„ Podolia . . . . .	2,725
„ Kiev . . . . .	3,598
„ Chernigov . . . . .	1,842
„ Kremenchug . . . . .	1,799
„ Poltava . . . . .	2,267
„ Kharkov . . . . .	2,478
„ Odessa . . . . .	1,911
„ Nicolaiev . . . . .	1,365
„ Ekaterinoslav . . . . .	1,736
„ Zaporozhe . . . . .	1,318
„ Donetz . . . . .	3,318
Total . . . . .	26,070

<i>Southern Region :</i>	
Gov. of Tzaritzin . . . . .	1,201
„ Astrakhan . . . . .	387
Kalmuk Region . . . . .	126
Don Region . . . . .	1,544
Gov. of Kubano-Chernomorsk. . . . .	2,930
„ Stavropol . . . . .	1,175
Terek . . . . .	393
Mountain Republics . . . . .	808
Daghestan Republic . . . . .	798
Total . . . . .	9,362

<i>Transcaucasia :</i>	
Rep. of Georgia . . . . .	2,372
Rep. of Azerbeidjan . . . . .	2,097
Armenia . . . . .	1,214
Total . . . . .	5,683

Region or Government	Population in thousands
<i>Crimea . . . . .</i>	762
<i>Middle Volga Region :</i>	
Gov. of Nijni-Novgorod . . . . .	1,833
„ Mariskaia Region. . . . .	300
Chuvach Region . . . . .	758
Tartar Republic . . . . .	2,852
Gov. of Simbirsk . . . . .	1,657
„ Penza . . . . .	1,745
„ Saratov . . . . .	3,063
„ Samara . . . . .	2,820
German Communities . . . . .	454
Total . . . . .	15,483

<i>Eastern Region :</i>	
Gov. of Viatka . . . . .	2,052
Votyak Territory . . . . .	685
Gov. of Perm . . . . .	1,779
„ Ekaterinburg . . . . .	1,949
„ Tiumen . . . . .	1,177
„ Cheliabinsk . . . . .	1,344
Bachkir Republic . . . . .	1,268
Gov. of Ufa . . . . .	2,009
Total . . . . .	12,264

<i>Kirghiz Republic . . . . .</i>	5,059
<i>Turkestan Republic . . . . .</i>	7,202
<i>Siberia . . . . .</i>	8,080
<i>Republic of Extreme Orient . . . . .</i>	1,812

RUSSIA, Total. . . . .	131,616
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**STATISTICAL TABLES**  
**OF THE INCIDENCE OF EPIDEMIC DISEASES**  
**IN EASTERN AND CENTRAL EUROPE**  
**MAY - DECEMBER 1922.**

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TABLE No. 1.

**Cases of Typhus notified in Central and Eastern Europe, 1922.**

*Note:* The figures in *italics* denote the number of deaths, those in ordinary type denote the number of cases.

Country or Region	Population in thousands	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Jan.-Dec.
GERMANY . . . . .	59182	27	22	15	3	2	2	0	8	386
CZECHOSLOVAKIA . . . . .	13596	27	16	2	5	0	1	3	26	417
AUSTRIA . . . . .	6420	<i>4</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>33</i>
HUNGARY . . . . .	7841	2	2	2	1	0	0	0	0	23
		<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>5</i>
		0	0	0	0	0	0	0	—	17
		0	0	0	0	0	0	0	—	3
KINGDOM OF THE SERBS, CROATS AND SLOVENES	12017	—	—	—	1	1	6	6	—	92
BULGARIA . . . . .	4861	86	39	13	2	4	3	25	41	414
		<i>8</i>	<i>12</i>	<i>4</i>	<i>4</i>	<i>0</i>	<i>0</i>	<i>4</i>	<i>2</i>	<i>65</i>
CONSTANTINOPLE . . . . .	1300	35	19	18	17	6	5	13	10	195
		2	0	2	2	1	0	0	0	8
FINLAND . . . . .	3332	0	0	0	0	0	0	0	0	1
		0	0	0	0	0	0	0	0	0
ESTHONIA . . . . .	1750	16	13	7	8	1	0	1	5	163
LATVIA . . . . .	1728	249	111	48	26	19	19	26	29	1480
LITHUANIA . . . . .	2700	492	164	61	53	20	30	63	77	3409
		<i>24</i>	<i>17</i>	<i>8</i>	<i>0</i>	<i>0</i>	<i>2</i>	<i>4</i>	<i>7</i>	<i>226</i>
DANZIG . . . . .	351	0	0	0	0	0	0	0	0	2
		0	0	0	0	0	0	0	0	1
POLAND:										
Western Zone . . . . .	4038	11	2	9	7	5	3	4	—	90
		<i>1</i>	<i>1</i>	<i>0</i>	<i>2</i>	<i>1</i>	<i>0</i>	<i>1</i>	—	<i>9</i>
West Central Zone . . . . .	6780	479	247	73	39	33	58	103	—	2713
		<i>41</i>	<i>29</i>	<i>7</i>	<i>6</i>	<i>5</i>	<i>3</i>	<i>10</i>	—	<i>285</i>
East Central Zone . . . . .	9191	1688	1058	429	272	162	185	277	—	12182
		<i>155</i>	<i>97</i>	<i>53</i>	<i>30</i>	<i>16</i>	<i>24</i>	<i>20</i>	—	<i>1164</i>
Eastern Zone . . . . .	6866	3641	1542	709	436	261	269	516	—	24955
		<i>193</i>	<i>55</i>	<i>30</i>	<i>20</i>	<i>19</i>	<i>12</i>	<i>31</i>	—	<i>1535</i>
Poland, Total . . . . .	26875	5819	2849	1220	754	461	515	900	—	39940
		<i>390</i>	<i>182</i>	<i>90</i>	<i>58</i>	<i>41</i>	<i>39</i>	<i>62</i>	—	<i>2993</i>
RUSSIA:										
Western Region . . . . .	9118	7703	4082	1923	1083	614	595	297	75	50991
Northern Region . . . . .	4310	4183	4729	2107	1108	909	768	1437	419	30849
Central Region . . . . .	14741	24516	13469	5508	3439	1500	1630	2151	1071	150835
South Central Region . . . . .	11668	13236	6239	3653	2054	1494	1361	1420	242	73442
The Ukraine . . . . .	26070	63766	35926	17262	6864	4256	3412	—	—	317917
Crimea . . . . .	762	4483	4181	1170	463	160	106	113	27	15558
Southern Region . . . . .	9363	7574	2038	1966	1026	439	421	760	191	47232
Middle Volga Region . . . . .	15483	32360	16469	7249	3672	2043	1036	1691	713	216780
Eastern Region . . . . .	12264	38405	23256	13360	8423	5874	6223	7430	1057	209205 <sup>1</sup>
Siberia . . . . .	9258	—	—	—	—	—	—	—	—	39815 <sup>†</sup>
Kirghiz Republic . . . . .	5059	2209	1482	278	203	110	85	45	—	24412
Turkestan . . . . .	7202	1918	1253	375	882	87	28	123	44	27106
Railways . . . . .	—	19113	11060	4821	1589	825	—	—	—	137946 <sup>2</sup>
Waterways . . . . .	—	4383	1255	352	234	142	113	—	—	21865
Red Army, Navy and Prisons . . . . .	—	3024	446	251	145	62	—	—	—	37309 <sup>3</sup>
Russia, Total . . . . .	125295	226873	125885	60275	31185	18515	15778	15467	3839*	1401262

*Note:* No data are available for Roumania or Greece. For January-April, see *Epidemiological Intelligence* No. 4, pages 10-11.

\* Incomplete data for two weeks only. † January to April.

<sup>1</sup> Including 7,211 cases from January-July, not specified in Bachkir Republic.

<sup>2</sup> Including 15,812 cases period unstated.

<sup>3</sup> Including 7,739 cases, period unstated, in the Red Army.

TABLE No. 2.

Cases of Relapsing Fever notified in Central and Eastern Europe, 1922.

Note: The figures in *italics* denote the number of deaths, those in ordinary type denote the number of cases.

Country or Region	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Jan.-Dec
GERMANY . . . . .	1	3	3	10	0	0	0	3	31
CZECHOSLOVAKIA . . . . .	14	4	7	1	1	0	0	0	35
	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
AUSTRIA . . . . .	0	0	0	0	0	0	0	—	0
HUNGARY . . . . .	0	0	0	0	0	0	0	—	0
KINGDOM OF THE SERBS, CROATS AND SLOVENES	—	—	—	4	0	1	0	—	5
BULGARIA . . . . .	0	0	0	0	0	—	—	—	0
CONSTANTINOPLE . . . . .	—	—	1	0	0	0	0	0	1
FINLAND . . . . .	0	0	0	1	0	0	0	0	1
ESTHONIA . . . . .	0	8	11	2	6	5	2	3	91
LATVIA . . . . .	12	16	14	7	4	4	3	1	116
LITHUANIA . . . . .	27	16	29	6	2	10	13	9	910
	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>24</i>
DANZIG . . . . .	0	0	0	0	0	0	0	0	0
POLAND:									
Western Zone . . . . .	0	1	6	1	0	0	5	—	16
	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	—	<i>1</i>
West Central Zone . . . . .	26	10	1	6	2	3	0	—	202
	<i>2</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	—	<i>3</i>
East Central Zone . . . . .	470	428	283	252	128	76	111	—	7048
	<i>26</i>	<i>19</i>	<i>18</i>	<i>9</i>	<i>4</i>	<i>3</i>	<i>6</i>	—	<i>336</i>
Eastern Zone . . . . .	3070	2072	1431	1275	694	646	742	—	32364
	<i>60</i>	<i>37</i>	<i>43</i>	<i>25</i>	<i>22</i>	<i>13</i>	<i>23</i>	—	<i>1061</i>
Poland, Total . . . . .	3566	2511	1721	1534	824	725	858	—	39630
	<i>88</i>	<i>56</i>	<i>62</i>	<i>34</i>	<i>26</i>	<i>16</i>	<i>29</i>	—	<i>1401</i>
RUSSIA:									
Western Region . . . . .	3485	2841	2541	1580	1225	1099	314	25	36097
Northern Region . . . . .	1144	1592	1682	887	655	450	669	315	12673
Central Region . . . . .	11525	9839	6227	5575	3083	2607	2680	1272	94984
South-Central Region . . . . .	16063	8941	8012	5752	3620	4106	3472	411	107819
The Ukraine . . . . .	63214	54586	44471	27371	18231	14861	—	—	405440
Crimea . . . . .	1966	1521	970	632	234	161	116	33	8089
Southern Region . . . . .	11332	5421	6630	4598	2379	1723	2172	886	80214
Middle Volga Region . . . . .	19071	13438	9996	10142	5054	1993	1994	150	150751
Eastern Region . . . . .	20085	19590	17708	20143	13222	9622	10715	1528	185332 <sup>1</sup>
Siberia . . . . .	—	—	—	—	—	—	—	—	36125*
Kirghiz Republic . . . . .	4130	2985	1751	1956	1236	605	332	—	57611
Turkestan . . . . .	2060	1561	563	1404	215	133	358	117	27396
Railways . . . . .	15874	13319	10344	5525	2893	—	—	—	133274 <sup>2</sup>
Waterways . . . . .	1549	877	528	718	432	211	45	—	10783
Red Army, Navy and Prisons . . . . .	6098	1985	780	776	269	—	—	—	89410 <sup>3</sup>
Russia, Total . . . . .	177586	138496	112203	87059	52748	37571	22867	4737†	1435998

Note: No data are available for Roumania or Greece. For January-April, see *Epidemiological Intelligence* No. 4, pages 12 and 13.

\* January-April. † Incomplete data for two weeks only.

<sup>1</sup> Including 14,681 cases from January to July, not specified, in Bachkir Republic.

<sup>2</sup> Including 13,700 cases, period unstated.

<sup>3</sup> Including 15,732 cases, period unstated, in the Red Army.

TABLE No. 3.  
Cases of Cholera notified in Eastern Europe, 1922.

Government or Region	Jan. to April	May	June	July	Aug.	Sept.	Period not stated	Total
POLAND . . . . .	1	0	8	41	71	0	—	119
ROUMANIA . . . . .	0	0	0	18	0	0	—	18
<b>RUSSIA:</b>								
<i>Western Region :</i>								
City of Petrograd . . . . .	0	1	0	0	0	0	—	1
Gov. of Petrograd . . . . .	0	0	0	0	1	1	—	2
Vitebsk . . . . .	2	0	0	38	78	3	6	127
White Russia . . . . .	0	0	0	18	0	0	—	18
Gomel . . . . .	0	21	10	13	0	1	—	45
Total . . . . .	2	22	10	69	79	5	—	187
<i>Northern Region :</i>								
Gov. of Arkhangel . . . . .	0	0	0	0	1	81 <sup>1</sup>	—	82
» Cherepovets . . . . .	0	0	1	0	0	0	—	1
» Vologda . . . . .	0	0	1	5	138	0	—	144
» Severodvinsk . . . . .	0	0	0	0	11	0	—	11
» Kostroma . . . . .	0	0	1	19	1	0	—	21
Total . . . . .	0	0	3	24	151	81	—	259
<i>Central Region :</i>								
Gov. of Rybinsk . . . . .	0	2	0	1	4	0	—	7
» Yaroslavl . . . . .	0	0	0	17	9	0	—	26
» Ivanovo-Vozniessensk . . . . .	0	0	0	2	0	0	—	2
» Tver . . . . .	0	0	0	4	0	—	—	4
» Smolensk . . . . .	0	0	2	9	5	1	—	17
City of Moscow . . . . .	11	46	35	98	95	16	—	301
Gov. of Moscow . . . . .	0	18	5	18	11	0	—	52
» Tula . . . . .	7	20	2	0	0	0	—	29
» Ryazan . . . . .	2	11	5	41	85	49	—	193
Total . . . . .	20	97	49	190	209	66	—	631
<i>South-Central Region :</i>								
Gov. of Bryansk . . . . .	8	0	0	0	0	0	—	8
» Orel . . . . .	15	2	7	50	34	0	—	108
» Tambov . . . . .	57	13	1	41	14	0	—	126
» Voronezh . . . . .	131	65	56	91	0	0	—	343
» Kursk . . . . .	163	103	115	405	268	0	28	1082
Total . . . . .	374	183	179	587	316	0	—	1639
<i>The Ukraine:</i>								
District of Volhynia . . . . .	127	7	85	109	20	1	0	349
» Podolia . . . . .	1	54	87	172	80	0	9	403
» Kiev . . . . .	416	87	168	480	163	12	378	1704
» Chernigov . . . . .	43	71	91	205	308	36	0	754
» Kremenchug . . . . .	78	220	259	825	92	1	16	1491
» Poltava . . . . .	926	354	211	531	112	10	0	2144
» Kharkov . . . . .	529	218	417	1381	241	8	112	2906
» Odessa . . . . .	52	2664	3465	7680	1534	16	0	15411
» Nicolaiev . . . . .	242	494	984	3092	67	0	629	5508
» Ekaterinoslavl . . . . .	153	132	316	2025	541	6	0	3173
» Zaporozhe . . . . .	34	891	875	3131	223	0	0	5154
» Donetsk . . . . .	89	418	860	2421	697	29	0	4514
Total . . . . .	2690	5610	7818	22052	4078	119	1144	43511

<sup>1</sup> Including first week of October.



TABLE No. 3 (continued).

Cases of Cholera notified in Eastern Europe, 1922.

Government or Region	Jan. to April	May	June	July	Aug.	Sept.	Period not stated	Total
<b>RUSSIA (continued):</b>								
<i>Crimea</i> . . . . .	0	228	1153	1429	561	—	—	3371
<i>Middle Volga Region :</i>								
Gov. of Nijni-Novgorod . . .	0	6	1	93	92	0	—	192
Region of Mariskaia . . . .	0	0	1	0	2	0	—	3
Chuvach Republic . . . . .	4	0	0	5	2	0	—	11
Tartar Republic . . . . .	0	1	2	0	88	0	—	91
Gov. of Simbirsk . . . . .	12	3	32	90	9	0	—	146
» Penza . . . . .	30	44	46	171	33	0	—	324
» Saratov . . . . .	14	12	28	210	86	0	—	350
» Samara . . . . .	127	27	53	61	53	0	—	321
German Communities . . . .	0	0	0	5	0	0	—	5
Total . . . . .	187	93	163	635	365	0	—	1443
<i>Southern Region :</i>								
Tzaritzin . . . . .	38	32	155	558	319	1	—	1103
Gov. of Astrakhan . . . . .	11	81	1018	221	16	0	—	1347
Kalmuk Republic . . . . .	0	7	9	141	0	0	—	157
Region of Don . . . . .	381	341	610	1127	117	8	—	2584
Gov. of Kubano-Chernomorsk	178	522	1590	1883	1145	185	—	5503
» Stavropol . . . . .	70	157	191	164	13	0	—	595
» Terek . . . . .	14	184	193	141	43	0	—	575
Cherkasse Republic . . . . .	0	2	9	48	41	11	—	111
Gorskaia Republic . . . . .	45	192	127	97	40	3	—	504
Republic of Daghestan . . . .	10	32	59	32	4	37	—	174
Republic of Azerbeidjan . . .	39	61	165	108	51	0	—	424
Total . . . . .	786	1611	4126	4520	1789	245	—	13077
<i>Eastern Region :</i>								
Gov. of Viatka . . . . .	0	0	1	16	35	5	—	57
Votyak Region . . . . .	0	0	0	135	85	0	—	220
Gov. of Perm . . . . .	0	11	11	83	67	5	—	177
» Ekaterinburg . . . . .	16	74	124	235	450	19	—	918
» Tiumen . . . . .	0	0	15	108	287	5	19	434
» Cheliabinsk . . . . .	3	44	66	23	9	0	—	145
Bachkir Republic . . . . .	0	3	2	123	147	31	—	306
Gov. of Ufa . . . . .	173	107	134	47	0	0	—	461
Total . . . . .	192	239	353	770	1080	65	—	2699
<i>Kirghiz Republic</i> . . . . .	562	65	296	675	429	0	26	2053
<i>Turkestan Republic</i> . . . . .	166	189	407	692	964	124 <sup>1</sup>	65	2607
<i>Siberia</i> . . . . .	25	106	—	—	—	—	9177	9308
Railways . . . . .	735	697	821	2064	307	—	160	4784
Waterways . . . . .	0	39	4	6	6	7 <sup>1</sup>	535	595
Red Army . . . . .	510	79	251	77	—	—	422	1339
Prisons . . . . .	4	0	4	8	16	0	—	32
Russia, Total . . . . .	6253	9258	15637	33798	10318	712	11582 <sup>2</sup>	87588

Note: No case of cholera has been notified in the governments of Novgorod, Pskov, Murman, Olonetz, Vladimir and Kaluga, nor in the Zirian or Karelian Regions.

No case of cholera has been observed in any of the countries of Central or Eastern Europe not mentioned above. For details of data for January to April, see *Epidemiological Intelligence* No. 4, pages 8 and 9.

<sup>1</sup> Including first week of October.

<sup>2</sup> Of which 108 in October, government not stated.

TABLE No. 4.

Cases of Dysentery notified in Central and Eastern Europe, 1922.

Note: The figures in *italics* denote the number of deaths, those in ordinary type the number of cases.

Country or Region	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Jan.-Dec.
SWITZERLAND . . . . .	0	0	0	0	3	0	0	0	0	5
GERMANY . . . . .	231	430	427	548	1062	842	381	234	154	5036
	<i>29</i>	<i>36</i>	<i>32</i>	<i>38</i>	<i>61</i>	<i>49</i>	<i>44</i>	<i>34</i>	<i>21</i>	<i>398</i>
CZECHOSLOVAKIA . . . . .	51	46	65	121	172	383	177	44	44	1315
	<i>2</i>	<i>5</i>	<i>6</i>	<i>5</i>	<i>30</i>	<i>44</i>	<i>35</i>	<i>3</i>	<i>4</i>	<i>142</i>
AUSTRIA . . . . .	85	99	110	167	264	133	42	40	—	1136
	<i>18</i>	<i>19</i>	<i>19</i>	<i>24</i>	<i>34</i>	<i>37</i>	<i>8</i>	<i>3</i>	—	<i>217</i>
HUNGARY . . . . .	44	43	76	414	940	510	206	67	—	2425
	<i>2</i>	<i>4</i>	<i>11</i>	<i>35</i>	<i>138</i>	<i>77</i>	<i>41</i>	<i>9</i>	—	<i>324</i>
KINGDOM OF THE SERBS, CROATS AND SLOVENES	—	—	—	—	878	624	290	166	—	1958 <sup>1</sup>
	—	—	—	—	<i>107</i>	<i>96</i>	<i>47</i>	<i>29</i>	—	<i>279</i>
BULGARIA . . . . .	2	8	36	0	0	0	0	—	—	84
CONSTANTINOPLE . . . . .	4	2	1	3	3	2	1	2	—	32
FINLAND . . . . .	0	9	5	22	37	56	43	16	12	209
ESTHONIA . . . . .	0	1	5	21	150	93	17	12	8	329
LATVIA . . . . .	4	9	24	137	397	246	70	16	2	913
LITHUANIA . . . . .	4	4	20	97	145	43	6	5	4	356
	<i>0</i>	<i>0</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>12</i>
DANZIG . . . . .	2	0	0	1	0	0	0	0	1	5
POLAND :										
Western Zone . . . . .	19	48	61	191	668	635	151	53	—	1893
	<i>2</i>	<i>5</i>	<i>1</i>	<i>14</i>	<i>56</i>	<i>64</i>	<i>20</i>	<i>7</i>	—	<i>175</i>
West-Central Zone . .	20	45	62	379	934	660	130	39	—	2359
	<i>5</i>	<i>7</i>	<i>16</i>	<i>54</i>	<i>168</i>	<i>156</i>	<i>60</i>	<i>8</i>	—	<i>486</i>
East-Central Zone . .	23	32	55	257	1420	774	225	64	—	3001
	<i>3</i>	<i>9</i>	<i>10</i>	<i>34</i>	<i>263</i>	<i>191</i>	<i>44</i>	<i>9</i>	—	<i>599</i>
Eastern Zone . . . . .	79	114	129	810	3554	1474	357	110	—	6990
	<i>9</i>	<i>2</i>	<i>7</i>	<i>40</i>	<i>210</i>	<i>107</i>	<i>33</i>	<i>3</i>	—	<i>444</i>
Poland, Total . . . . .	141	239	307	1637	6576	3543	863	266	—	14243
	<i>19</i>	<i>23</i>	<i>34</i>	<i>142</i>	<i>697</i>	<i>518</i>	<i>157</i>	<i>27</i>	—	<i>1704</i>
RUSSIA (without Ukraine) .	7539	3271	—	—	—	—	—	—	—	37772 <sup>2</sup>
THE UKRAINE . . . . .	3520	4626	4465	5079	7736	4735	2628	—	—	36591

Note: No data are available for Roumania or Greece. Recent data have not been received for Russia. For January to March, see *Epidemiological Intelligence* No. 4, pages 19 and 20.

<sup>1</sup> Includes the months of August to November only.  
<sup>2</sup> January-May.

TABLE No. 5.

**Cases of Smallpox notified in Central and Eastern Europe, 1922.**

*Note:* The figures in *italics* denote the number of deaths, those in ordinary type the number of cases.

Country or Region	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Jan. - Dec.
SWITZERLAND . . . . .	71	96	63	31	100	71	42	263	273	1153
GERMANY . . . . .	105	55	16	13	1	4	1	1	1	207
CZECHOSLOVAKIA . . . . .	3	6	7	1	3	0	3	1	0	84
	<i>1</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>12</i>
AUSTRIA . . . . .	1	0	0	0	0	0	2	0	0	3
HUNGARY . . . . .	0	0	0	0	0	0	0	0	—	2
KINGDOM OF THE SERBS, CROATS AND SLOVENES	—	—	—	—	30	21	45	55	—	350 <sup>1</sup>
	—	—	—	—	<i>13</i>	<i>5</i>	<i>9</i>	<i>12</i>	—	<i>81</i>
BULGARIA . . . . .	—	1	0	0	0	0	6	4	2	18
	—	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>1</i>
CONSTANTINOPLE . . . . .	—	—	—	12	8	21	33	66	150	290
	<i>6</i>	<i>6</i>	<i>7</i>	<i>1</i>	<i>4</i>	<i>6</i>	<i>12</i>	<i>30</i>	<i>39</i>	<i>132</i>
FINLAND . . . . .	9	11	3	1	0	0	1	0	0	90
ESTHONIA . . . . .	0	3	0	0	0	1	0	0	0	23
LATVIA . . . . .	24	30	21	5	15	4	1	5	1	160
LITHUANIA . . . . .	58	89	16	10	5	5	0	2	3	345
	<i>5</i>	<i>6</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>30</i>
DANZIG . . . . .	0	0	0	0	0	0	0	0	0	0
POLAND:										
Western Zone . . . . .	29	9	2	5	3	1	0	1	—	84
	<i>2</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>0</i>	—	<i>11</i>
West Central Zone . . . . .	75	89	37	34	20	16	35	25	—	610
	<i>14</i>	<i>19</i>	<i>6</i>	<i>6</i>	<i>3</i>	<i>2</i>	<i>12</i>	<i>6</i>	—	<i>107</i>
East Central Zone . . . . .	252	184	99	66	54	26	5	24	—	1033
	<i>81</i>	<i>58</i>	<i>19</i>	<i>20</i>	<i>12</i>	<i>4</i>	<i>2</i>	<i>4</i>	—	<i>352</i>
Eastern Zone . . . . .	90	155	80	27	14	10	7	5	—	569
	<i>5</i>	<i>10</i>	<i>7</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>0</i>	<i>0</i>	—	<i>40</i>
Poland, Total . . . . .	446	437	218	132	91	53	48	55	—	2296
	<i>102</i>	<i>88</i>	<i>32</i>	<i>28</i>	<i>17</i>	<i>9</i>	<i>14</i>	<i>10</i>	—	<i>510</i>
RUSSIA (without Ukraine) . . . . .	5837	5893	3068	2062	1244	860	977	—	—	36786
THE UKRAINE . . . . .	1254	1595	856	694	312	143	325	—	—	9009

*Note:* No data are available for Roumania or Greece. For January to March, see *Epidemiological Intelligence* No. 4, pages 17 and 18.

<sup>1</sup> Includes months of January to March and August to November.



TABLE No. 6.

**Cases of Typhoid Fever notified in Central and Eastern Europe, 1922.**

*Note:* The figures in *italics* denote the number of deaths, those in ordinary type denote the number of cases.

Country or Region	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Jan.-Dec.
SWITZERLAND . . .	8	4	10	15	9	17	27	47	46	27	28	25	261
GERMANY . . . . .	588	553	795	532	719	1032	1142	1403	1277	1092	1180	685	10993
	<i>31</i>	<i>23</i>	<i>26</i>	<i>12</i>	<i>20</i>	<i>33</i>	<i>41</i>	<i>43</i>	<i>49</i>	<i>29</i>	<i>37</i>	<i>28</i>	<i>372</i>
CZECHOSLOVAKIA .	579	430	420	470	374	426	746	873	851	641	491	359	6360
	<i>46</i>	<i>45</i>	<i>50</i>	<i>52</i>	<i>48</i>	<i>39</i>	<i>51</i>	<i>68</i>	<i>63</i>	<i>53</i>	<i>34</i>	<i>37</i>	<i>586</i>
AUSTRIA . . . . .	208	81	119	136	182	176	202	379	327	202	160	—	2172
	<i>17</i>	<i>13</i>	<i>16</i>	<i>23</i>	<i>25</i>	<i>15</i>	<i>22</i>	<i>30</i>	<i>39</i>	<i>17</i>	<i>10</i>	—	<i>227</i>
HUNGARY . . . . .	362	128	124	266	288	181	357	874	1087	894	646	—	5207
	<i>32</i>	<i>24</i>	<i>18</i>	<i>29</i>	<i>34</i>	<i>21</i>	<i>36</i>	<i>76</i>	<i>118</i>	<i>116</i>	<i>79</i>	—	<i>583</i>
KINGDOM OF SERBS, CROATS, SLOVENES	223	—	—	—	—	—	—	482	545	659	495	—	<sup>1</sup> 2404
	—	—	—	—	—	—	—	<i>43</i>	<i>45</i>	<i>73</i>	<i>65</i>	—	<i>226</i>
BULGARIA . . . . .	199	77	67	28	27	40	—	—	—	—	—	—	448
	<i>34</i>	<i>19</i>	<i>13</i>	—	<i>8</i>	<i>7</i>	—	—	—	—	—	—	<i>81</i>
CONSTANTINOPLE .	—	—	—	—	—	—	139	353	136	89	32	16	765
	<i>2</i>	<i>2</i>	<i>4</i>	<i>4</i>	<i>3</i>	<i>3</i>	<i>8</i>	<i>16</i>	<i>11</i>	<i>12</i>	<i>7</i>	<i>1</i>	<i>73</i>
FINLAND . . . . .	106	53	57	55	48	42	172	217	201	158	117	72	1298
ESTHONIA . . . . .	118	47	59	31	32	56	38	110	78	74	51	50	744
LATVIA . . . . .	108	57	48	47	63	57	106	130	105	111	99	53	984
LITHUANIA . . . .	127	176	100	119	65	92	93	127	103	64	48	26	1140
	<i>3</i>	<i>3</i>	<i>2</i>	<i>8</i>	<i>1</i>	<i>5</i>	<i>3</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>33</i>
DANZIG . . . . .	9	8	3	3	6	1	10	11	5	2	8	4	70
	<i>1</i>	<i>2</i>	<i>0</i>	<i>1</i>	<i>2</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>3</i>	<i>0</i>	<i>12</i>
POLAND:													
Western Zone . . .	58	51	38	59	58	40	59	167	142	160	137	—	969
	<i>1</i>	<i>3</i>	<i>6</i>	<i>2</i>	<i>6</i>	<i>6</i>	<i>7</i>	<i>11</i>	<i>4</i>	<i>13</i>	<i>8</i>	—	<i>67</i>
West-Cent. Zone .	518	479	483	304	375	261	274	659	848	763	642	—	5606
	<i>50</i>	<i>65</i>	<i>54</i>	<i>26</i>	<i>32</i>	<i>24</i>	<i>24</i>	<i>46</i>	<i>59</i>	<i>79</i>	<i>56</i>	—	<i>515</i>
East-Cent. Zone .	657	451	527	379	466	337	359	770	1099	736	647	—	6428
	<i>66</i>	<i>58</i>	<i>54</i>	<i>52</i>	<i>40</i>	<i>30</i>	<i>26</i>	<i>54</i>	<i>73</i>	<i>69</i>	<i>61</i>	—	<i>575</i>
Eastern Zone . . .	1029	856	1038	681	733	393	371	526	582	497	410	—	7116
	<i>56</i>	<i>37</i>	<i>55</i>	<i>29</i>	<i>38</i>	<i>8</i>	<i>13</i>	<i>20</i>	<i>21</i>	<i>23</i>	<i>23</i>	—	<i>323</i>
Poland, Total . . .	2262	1837	2086	1423	1632	1031	1063	2122	2571	2156	1836	—	20119
	<i>173</i>	<i>163</i>	<i>169</i>	<i>109</i>	<i>116</i>	<i>68</i>	<i>70</i>	<i>131</i>	<i>157</i>	<i>176</i>	<i>148</i>	—	<i>1480</i>
RUSSIA (without													
Ukraine). . . . .	34627	30440	29573	18608	19780	12421	10345	15104	12698	8884	—	—	192480
The UKRAINE . . .	14706	14644	11043	8357	8833	5527	4054	4646	4559	5611	—	—	82533

*Note:* No data are available for Roumania or Greece.

<sup>1</sup> Includes the months of January and August to November.

TABLE No. 7.

## Cases of Malaria notified in Russia and Poland, January-November 1922.

Government or Province	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Not specified	Total
<b>POLAND:</b>													
Western Zone . . . . .	0	0	1	2	15	1	8	8	3	4	9	—	51
West Central Zone . . . . .	4	4	6	7	24	48	47	15	15	8	0	—	178
East Central Zone . . . . .	1	6	44	116	281	325	300	220	175	111	104	—	1680
Bialystok . . . . .	10	24	17	19	43	53	—	26	23	19	13	—	294
Vilna . . . . .	—	—	—	8	23	16	28	28	13	5	5	—	126
Novogrodek . . . . .	1	9	88	202	562	607	307	223	135	66	35	—	2235
Polesia . . . . .	14	31	372	511	1426	1738	1257	1232	380	186	97	—	7244
Volhynia . . . . .	23	70	375	542	1151	813	995	763	289	193	195	—	5409
Tarnopol . . . . .	0	1	0	1	1	1	2	1	2	4	2	—	15
Poland, Total . . . . .	53	145	900	1408	3526	3602	2991	2516	1035	596	460	—	17232
<b>RUSSIA:</b>													
<i>Western Region:</i>													
City of Petrograd . . . . .	4	7	26	42	89	72	36	25	10	17	14	—	342
Novgorod . . . . .	17	19	58	62	109	78	31	4	11	2	3	—	394
Pskov . . . . .	4	14	40	17	14	2	—	6	—	—	—	—	64
Vitebsk . . . . .	1	2	14	19	15	6	8	—	—	—	—	—	65
Gomel . . . . .	70	22	78	97	109	141	144	185	66	76	45	—	1030
Total . . . . .	96	61	186	237	336	299	216	220	87	95	62	—	1895
<i>Northern Region:</i>													
Karelian Communes . . . . .	—	—	—	—	—	5	—	1	—	—	—	—	6
Arkhangel . . . . .	36	99	634	985	2501	380	577	373	179	148	157	—	6049
Olonetz . . . . .	—	—	2	2	—	1	1	—	—	—	—	—	6
Cherepovetz . . . . .	81	171	182	167	216	112	58	46	46	54	—	—	1133
Vologda . . . . .	16	6	22	30	104	59	31	22	22	11	2	—	325
Saverodvinsk . . . . .	39	108	1164	2222	2715	1860	400	613	324	59	62	—	9566
Zirian Region . . . . .	17	18	57	90	44	165	51	21	21	12	—	—	496
Kostroma . . . . .	28	—	—	—	—	—	—	—	—	—	8	—	36
Total . . . . .	217	402	2061	3496	5580	2532	1418	1076	592	284	229	—	17587

TABLE No. 7 (continued).  
Cases of Malaria notified in Russia and Poland, January-November 1922.

Government or Province	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Not specified	Total
<b>RUSSIA (continued):</b>													
<i>Central Region:</i>													
Rybinsk . . . . .	25	34	7	—	—	—	—	60	84	16	—	—	226
Yaroslavl . . . . .	7	8	3	8	22	7	17	2	—	—	—	—	74
Ivanovo-Vozniessensk . . . . .	25	41	189	249	630	482	240	70	—	—	—	—	1926
Vladimir . . . . .	263	291	1032	1363	3151	2263	1002	1935	1141	697	437	—	43574
Tver . . . . .	46	30	93	91	109	54	18	29	18	13	—	—	501
Smolensk . . . . .	38	55	68	144	211	118	106	109	113	35	45	—	1042
City of Moscow . . . . .	45	57	143	202	328	234	475	475	399	228	203	—	2489
Gov. of Moscow . . . . .	383	614	2110	3298	4812	5171	3293	5865	2077	389	621	—	28633
Kaluga . . . . .	112	121	133	195	210	119	57	64	62	83	119	—	1275
Tula . . . . .	17	22	37	59	80	33	55	8	—	—	—	—	311
<b>Total . . . . .</b>	<b>961</b>	<b>1273</b>	<b>3815</b>	<b>5608</b>	<b>9553</b>	<b>8481</b>	<b>4963</b>	<b>8619</b>	<b>3894</b>	<b>1461</b>	<b>1425</b>	<b>—</b>	<b>50051</b>
<i>South-Central Region:</i>													
Briansk . . . . .	86	97	169	230	238	157	199	159	115	62	47	—	1559
Tambov . . . . .	—	45	247	371	948	608	380	2585	826	1468	606	—	2074
Voronezh . . . . .	537	555	721	825	979	1046	519	856	755	184	297	—	6515
<b>Total . . . . .</b>	<b>647</b>	<b>697</b>	<b>1137</b>	<b>1426</b>	<b>2165</b>	<b>1811</b>	<b>1098</b>	<b>3600</b>	<b>1696</b>	<b>1714</b>	<b>950</b>	<b>—</b>	<b>16941</b>
<i>Crimea . . . . .</i>													
<b>Total . . . . .</b>	<b>68</b>	<b>33</b>	<b>58</b>	<b>69</b>	<b>103</b>	<b>117</b>	<b>144</b>	<b>135</b>	<b>275</b>	<b>229</b>	<b>163</b>	<b>—</b>	<b>1396</b>
<i>Southern Region:</i>													
Tzaritzin . . . . .	689	246	962	813	2178	2494	1673	4914	5096	2643	3259	—	24967
Kalmuk Region . . . . .	41	145	343	447	208	326	337	606	423	261	—	—	3137
Region of Don . . . . .	—	—	—	—	—	—	2163	6238	6651	1838	1369	10912 <sup>1</sup>	29171
Kubano-Tchernomorsk . . . . .	2985	2840	2864	3081	3701	3793	5139	12272	10734	5448	—	—	52857
Stavropol . . . . .	—	—	11	18	17	20	87	945	4151	2164	569	102919 <sup>2</sup>	110901
Terek . . . . .	2	16	53	13	57	—	3249	4174	5828	—	—	—	13392
Tcherkassie Republic . . . . .	—	—	—	8	35	49	40	43	182	90	96	—	543
Kabardinsk . . . . .	112	109	153	97	159	149	291	604	1082	538	—	—	3294
Gorskaia . . . . .	—	—	—	—	—	—	2443	—	945	1212	—	—	4600
Daghestan . . . . .	5600	7700	11600	14700	1920	25150	3610	48900	41600	2500	13500	—	176780
Azerbeidjan . . . . .	4123	2952	3246	5405	6842	7609	7891	9052	9215	10722	7313	—	74370
<b>Total . . . . .</b>	<b>13552</b>	<b>14008</b>	<b>19232</b>	<b>24582</b>	<b>15117</b>	<b>39590</b>	<b>26923</b>	<b>87748</b>	<b>85907</b>	<b>27416</b>	<b>26106</b>	<b>113831</b>	<b>494012</b>

<sup>1</sup> January to June. <sup>2</sup> Period not stated.



TABLE No. 7 (continued).

## Cases of Malaria notified in Russia and Poland, January-November 1922.

Government or Province	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Not specified	Total
<b>Russia (continued):</b>													
<i>Middle Volga Region:</i>													
Chuyach Region . . . . .	—	—	—	—	—	—	—	—	—	539	592	—	1131
Tartar Republic . . . . .	2337	2592	*3482	4985	3250	4520	333	1002	1644	—	—	—	24095
Simbirsk . . . . .	928	2470	5084	5716	9663	4756	4788	6885	11613	6573	—	—	58476
Penza . . . . .	359	555	1265	1292	1370	1067	831	881	923	677	532	—	9752
Saratov . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—
Samara . . . . .	—	—	—	—	—	—	—	10032	17516	12508	16028	—	40000 <sup>1</sup>
German Communities . . . . .	—	—	—	—	—	524	624	3307	3868	2337	1667	—	56444 <sup>1</sup>
Total . . . . .	3624	5617	9831	11943	14283	10867	6576	22107	35564	22634	18819	119412	281277
<i>Eastern Region:</i>													
Viatka . . . . .	171	216	606	758	1190	1280	617	460	600	267	189	—	6354
Volyak Territory . . . . .	350	240	762	1096	1885	1791	—	—	—	—	—	—	6124
Perm . . . . .	289	272	778	695	1075	837	559	—	—	—	—	—	4505
Ekaterinburg . . . . .	810	739	664	1163	1328	762	797	792	613	624	—	—	8292
Tiumen . . . . .	—	—	—	—	—	—	7	3	—	63	—	—	79
Tcheliabinsk . . . . .	191	155	276	255	194	115	122	132	138	104	96	—	1778
Bachkir Republic . . . . .	—	—	—	—	—	—	—	—	958	1896	1796	—	4650
Total . . . . .	1811	1622	3086	3967	5672	4785	2102	1387	2315	2954	2081	—	31782
<i>Kirghiz Republic:</i>													
Kirghiz Republic . . . . .	2733	2835	3729	4741	2882	3273	3726	10018	6894	3367	2850	—	47048
Turkestan . . . . .	12139	14751	13476	10515	8439	10459	8789	9795	10658	5812	—	—	104833
Siberia . . . . .	40	32	51	810	63	—	—	—	—	—	—	—	996
Railways . . . . .	2093	3563	3454	42530	5680	5544	8662	22648	12706	—	—	—	76880
Waterways . . . . .	603	575	2938	2724	3199	3398	1825	—	—	—	—	—	15262
Russia, Total . . . . .	38584	45469	63054	81838	73819	91219	66139	167351	160588	65966	52690	233243	1139960

<sup>1</sup> January to July.<sup>2</sup> January to June.

## STATISTICAL TABLES OF THE INCIDENCE OF CERTAIN OTHER EPIDEMIC DISEASES IN VARIOUS EUROPEAN COUNTRIES, JANUARY-DECEMBER 1922.

TABLE No. 8.

### Cases of Diphtheria notified in certain Countries of Europe, 1922.

*Note:* The figures in *italics* denote the number of deaths, those in ordinary type denote the number of cases.

Country or Region	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Jan.-Dec.
ENGLAND and WALES.	5537	5205	5605	3730	4586	3589	3646	3700	3492	4035	4995	4077	52197
HOLLAND . . . . .	534	426	528	356	417	364	292	290	320	275	472	431	4705
	<i>50</i>	<i>48</i>	<i>19</i>	<i>27</i>	<i>23</i>	<i>24</i>	<i>12</i>	<i>8</i>	<i>16</i>	<i>19</i>	<i>29</i>	<i>34</i>	<i>309</i>
BELGIUM . . . . .	295	235	193	184	205	165	159	154	133	90	194	136	2443
SWITZERLAND . . .	640	445	457	333	327	256	227	256	361	363	427	317	4409
GERMANY . . . . .	4035	3586	4144	2611	3270	2425	2289	2752	2726	2967	3941	3203	37949
	<i>180</i>	<i>115</i>	<i>103</i>	<i>72</i>	<i>67</i>	<i>46</i>	<i>45</i>	<i>46</i>	<i>59</i>	<i>64</i>	<i>105</i>	<i>113</i>	<i>1015</i>
CZECHOSLOVAKIA .	389	317	311	247	246	215	163	191	230	335	321	279	3244
	<i>26</i>	<i>37</i>	<i>21</i>	<i>19</i>	<i>19</i>	<i>11</i>	<i>16</i>	<i>15</i>	<i>16</i>	<i>30</i>	<i>30</i>	<i>37</i>	<i>277</i>
AUSTRIA . . . . .	307	221	291	210	271	171	169	187	179	235	257	—	2498
	<i>28</i>	<i>28</i>	<i>31</i>	<i>15</i>	<i>12</i>	<i>12</i>	<i>8</i>	<i>8</i>	<i>18</i>	<i>17</i>	<i>16</i>	—	<i>199</i>
HUNGARY . . . . .	352	211	255	179	200	167	142	224	188	209	279	—	2406
	<i>37</i>	<i>30</i>	<i>35</i>	<i>24</i>	<i>16</i>	<i>18</i>	<i>11</i>	<i>20</i>	<i>18</i>	<i>23</i>	<i>36</i>	—	<i>278</i>
ITALY . . . . .	1333	1035	1137	794	845	544	530	759	812	763	1139	832	10523
DENMARK . . . . .	1103	721	807	549	502	421	430	451	523	683	874	—	7064
NORWAY (Cities only)	89	70	76	63	86	42	38	64	78	102	76	—	784
	<i>9</i>	<i>0</i>	<i>2</i>	<i>3</i>	<i>2</i>	<i>1</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>1</i>	—	<i>27</i>
SWEDEN . . . . .	812	572	563	449	529	499	383	449	560	554	654	524	6548
FINLAND . . . . .	195	234	195	149	132	90	121	125	145	189	203	163	1941
ESTHONIA . . . . .	52	63	51	43	29	36	24	52	30	45	35	62	522
LATVIA . . . . .	60	96	85	51	66	44	43	43	60	49	51	50	698
LITHUANIA . . . .	28	37	27	40	25	22	20	30	12	20	19	12	292
	<i>1</i>	<i>1</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>4</i>	<i>2</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>16</i>
DANZIG . . . . .	8	14	11	9	13	12	10	8	9	13	21	18	146
	<i>1</i>	<i>0</i>	<i>3</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>7</i>
POLAND:													
Western Zone . .	76	78	96	51	57	58	48	62	60	97	142	—	825
	<i>10</i>	<i>6</i>	<i>9</i>	<i>8</i>	<i>1</i>	<i>5</i>	<i>7</i>	<i>4</i>	<i>4</i>	<i>10</i>	<i>15</i>	—	<i>79</i>
West-Cent. Zone	47	44	58	47	48	41	39	29	50	55	68	—	526
	<i>10</i>	<i>16</i>	<i>10</i>	<i>9</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>5</i>	<i>6</i>	<i>9</i>	<i>8</i>	—	<i>79</i>
East-Cent. Zone.	103	118	117	89	88	48	60	91	89	116	151	—	1070
	<i>20</i>	<i>16</i>	<i>9</i>	<i>13</i>	<i>12</i>	<i>4</i>	<i>6</i>	<i>16</i>	<i>12</i>	<i>17</i>	<i>21</i>	—	<i>146</i>
Eastern Zone. .	142	152	275	139	139	82	101	114	91	124	120	—	1479
	<i>6</i>	<i>16</i>	<i>8</i>	<i>7</i>	<i>8</i>	<i>5</i>	<i>3</i>	<i>5</i>	<i>5</i>	<i>7</i>	<i>10</i>	—	<i>80</i>
Poland, Total	368	392	546	326	332	229	248	296	290	392	481	—	3900
	<i>46</i>	<i>54</i>	<i>36</i>	<i>37</i>	<i>22</i>	<i>16</i>	<i>19</i>	<i>30</i>	<i>27</i>	<i>43</i>	<i>54</i>	—	<i>384</i>
The UKRAINE . .	1389	1141	1169	1052	1055	668	797	765	627	1215	—	—	9878
RUSSIA (without Ukraine)	2228	2416	2731	1617	1995	1481	1619	1702	1371	1062	—	—	18222

TABLE No. 9.

Cases of Scarlet Fever notified in certain Countries of Europe, 1922.

Note: The figures in *italics* denote the number of deaths, those in ordinary type the number of cases.

Country or Region	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Jan.-Dec.
ENGLAND and													
WALES . . . . .	10689	9289	10334	7578	9945	6991	7637	7632	7352	9083	12374	9020	107924
HOLLAND . . . . .	247	229	264	205	243	176	240	209	295	265	519	384	3276
	<i>4</i>	<i>2</i>	<i>6</i>	<i>5</i>	<i>5</i>	<i>2</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>6</i>	<i>0</i>	<i>35</i>
BELGIUM . . . . .	125	150	113	115	104	98	107	141	83	102	182	90	1410
SWITZERLAND . . . . .	691	239	248	137	143	110	103	101	103	91	185	119	2270
GERMANY . . . . .	3125	2614	2912	1905	2235	1918	1961	2634	3131	3076	4107	2825	32443
	<i>46</i>	<i>26</i>	<i>26</i>	<i>16</i>	<i>21</i>	<i>22</i>	<i>15</i>	<i>10</i>	<i>15</i>	<i>25</i>	<i>25</i>	<i>25</i>	<i>272</i>
CZECHOSLOVAKIA . . . . .	1222	801	803	704	791	933	685	597	764	1221	1198	1066	10785
	<i>133</i>	<i>90</i>	<i>77</i>	<i>85</i>	<i>97</i>	<i>116</i>	<i>93</i>	<i>62</i>	<i>79</i>	<i>103</i>	<i>121</i>	<i>132</i>	<i>1208</i>
AUSTRIA . . . . .	289	167	204	159	234	157	138	174	218	295	288	—	2323
	<i>11</i>	<i>12</i>	<i>5</i>	<i>5</i>	<i>7</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>1</i>	<i>2</i>	<i>7</i>	—	<i>59</i>
HUNGARY . . . . .	2490	1186	1141	896	895	802	714	839	1096	1257	1009	—	12325
	<i>264</i>	<i>216</i>	<i>207</i>	<i>148</i>	<i>120</i>	<i>135</i>	<i>136</i>	<i>136</i>	<i>159</i>	<i>182</i>	<i>178</i>	—	<i>1881</i>
ITALY . . . . .	986	621	1013	697	811	779	651	825	896	768	1487	998	10532
DENMARK . . . . .	604	452	404	356	347	337	356	391	344	431	627	—	4649
NORWAY (Cities only)	60	91	74	84	66	73	42	47	64	92	119	—	812
	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>1</i>	—	<i>4</i>
SWEDEN . . . . .	770	614	738	698	737	767	582	507	685	1412	1928	1272	10710
FINLAND . . . . .	117	117	129	96	84	83	61	42	35	48	89	89	990
ESTHONIA . . . . .	70	51	69	38	42	20	4	38	38	38	93	93	594
LATVIA . . . . .	206	188	183	155	127	127	88	46	60	120	128	170	1598
LITHUANIA . . . . .	88	67	56	30	28	31	32	11	21	48	17	8	437
	<i>8</i>	<i>2</i>	<i>3</i>	<i>1</i>	<i>5</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>4</i>	<i>2</i>	<i>0</i>	<i>26</i>
DANZIG . . . . .	18	12	15	6	10	5	3	12	9	17	11	8	126
	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>3</i>
POLAND:													
Western Zone . . . . .	69	52	105	67	101	77	76	136	178	140	188	—	1189
	<i>7</i>	<i>12</i>	<i>8</i>	<i>11</i>	<i>4</i>	<i>5</i>	<i>9</i>	<i>9</i>	<i>9</i>	<i>15</i>	<i>13</i>	—	<i>102</i>
West-Cent. Zone . . . . .	229	190	163	147	166	154	161	180	198	225	289	—	2802
	<i>40</i>	<i>44</i>	<i>14</i>	<i>18</i>	<i>23</i>	<i>16</i>	<i>19</i>	<i>19</i>	<i>32</i>	<i>24</i>	<i>23</i>	—	<i>272</i>
East-Cent. Zone. . . . .	907	572	630	412	474	373	486	474	605	618	642	—	6193
	<i>170</i>	<i>97</i>	<i>121</i>	<i>88</i>	<i>67</i>	<i>57</i>	<i>99</i>	<i>94</i>	<i>100</i>	<i>118</i>	<i>126</i>	—	<i>1137</i>
Eastern Zone. . . . .	532	414	637	279	321	311	278	374	335	410	451	—	4342
	<i>46</i>	<i>21</i>	<i>37</i>	<i>26</i>	<i>15</i>	<i>17</i>	<i>32</i>	<i>33</i>	<i>20</i>	<i>41</i>	<i>43</i>	—	<i>331</i>
Poland, Total . . . . .	1737	1228	1535	905	1062	915	1001	1164	1316	1393	1570	—	1382 <sub>6</sub>
	<i>263</i>	<i>174</i>	<i>180</i>	<i>143</i>	<i>109</i>	<i>95</i>	<i>159</i>	<i>155</i>	<i>161</i>	<i>198</i>	<i>205</i>	—	<i>184<sub>2</sub></i>
The UKRAINE . . . . .	2726	2189	1624	1395	1262	787	659	802	874	1615	—	—	13933
RUSSIA													
(without Ukraine)	5932	5858	6230	2561	3256	2404	2285	2732	2453	1986	—	—	35697



TABLE No. 10.

**Cases of Cerebro-Spinal Meningitis notified in certain Countries of Europe, 1922.**

*Note:* The figures in *italics* denote the number of deaths, those in ordinary type the number of cases.

Country or Region	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Jan.-Dec.
ENGLAND and WALES.	27	32	39	39	33	19	35	28	21	34	22	22	351
HOLLAND . . . . .	14	13	7	13	19	12	9	8	3	8	8	18	132
	<i>5</i>	<i>7</i>	<i>5</i>	<i>1</i>	<i>12</i>	<i>13</i>	<i>4</i>	<i>3</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>7</i>	<i>69</i>
BELGIUM . . . . .	1	7	3	6	0	8	2	6	6	3	4	2	48
SWITZERLAND . . . . .	2	6	3	4	0	0	1	4	2	0	3	5	30
GERMANY . . . . .	76	106	201	196	268	172	116	116	88	90	95	98	1622
	<i>12</i>	<i>23</i>	<i>30</i>	<i>28</i>	<i>42</i>	<i>25</i>	<i>26</i>	<i>22</i>	<i>21</i>	<i>27</i>	<i>26</i>	<i>28</i>	<i>310</i>
CZECHOSLOVAKIA . . . . .	4	21	24	28	23	35	19	14	9	13	12	13	215
	<i>1</i>	<i>9</i>	<i>7</i>	<i>15</i>	<i>8</i>	<i>9</i>	<i>6</i>	<i>8</i>	<i>3</i>	<i>6</i>	<i>3</i>	<i>7</i>	<i>82</i>
AUSTRIA . . . . .	2	1	4	3	5	3	1	3	6	1	4	—	33
	<i>2</i>	<i>0</i>	<i>5</i>	<i>3</i>	<i>7</i>	<i>3</i>	<i>4</i>	<i>3</i>	<i>4</i>	<i>0</i>	<i>0</i>	—	<i>31</i>
HUNGARY . . . . .	20	3	6	0	0	6	0	1	1	1	0	—	38
	<i>0</i>	<i>1</i>	<i>4</i>	<i>0</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	—	<i>8</i>
ITALY . . . . .	2	5	9	12	8	6	1	3	3	4	2	6	61
CONSTANTINOPLE	<i>1</i>	<i>2</i>	<i>0</i>	<i>4</i>	<i>2</i>	<i>1</i>	<i>2</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	—	<i>13</i>
DENMARK . . . . .	2	8	11	7	16	7	8	6	1	7	7	—	80
NORWAY (Cities only)	1	1	0	1	1	0	0	1	0	0	0	0	6
	<i>1</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>4</i>
SWEDEN . . . . .	5	3	9	8	7	12	13	3	2	8	8	15	93
FINLAND . . . . .	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTHONIA . . . . .	3	3	2	1	1	0	2	0	0	0	0	1	13
LATVIA . . . . .	0	2	3	1	2	3	1	3	3	1	1	2	22
LITHUANIA . . . . .	—	—	7	3	4	0	0	0	0	0	0	1	15
	—	—	<i>2</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>2</i>
DANZIG . . . . .	0	0	0	0	0	0	0	0	0	0	0	0	0
POLAND:													
Western Zone . . . . .	1	3	5	4	9	1	25	24	7	3	9	—	91
	<i>2</i>	<i>1</i>	<i>2</i>	<i>0</i>	<i>0</i>	<i>3</i>	<i>4</i>	<i>3</i>	<i>8</i>	<i>4</i>	<i>3</i>	—	<i>30</i>
West Cent. Zone . . . . .	6	9	20	19	10	11	6	15	9	6	16	—	127
	<i>11</i>	<i>11</i>	<i>14</i>	<i>16</i>	<i>12</i>	<i>3</i>	<i>8</i>	<i>9</i>	<i>6</i>	<i>11</i>	<i>18</i>	—	<i>119</i>
East Cent. Zone. . . . .	14	21	43	17	20	14	10	14	4	5	8	—	170
	<i>7</i>	<i>5</i>	<i>12</i>	<i>9</i>	<i>8</i>	<i>6</i>	<i>4</i>	<i>10</i>	<i>6</i>	<i>3</i>	<i>9</i>	—	<i>79</i>
Eastern Zone. . . . .	6	4	22	9	17	9	8	4	5	7	3	—	94
	<i>2</i>	<i>1</i>	<i>5</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>0</i>	<i>0</i>	—	<i>20</i>
Poland, Total	27	37	90	49	56	35	49	57	25	21	36	—	482
	<i>22</i>	<i>18</i>	<i>33</i>	<i>27</i>	<i>22</i>	<i>14</i>	<i>18</i>	<i>24</i>	<i>22</i>	<i>18</i>	<i>30</i>	—	<i>248</i>

TABLE No. 11.

**Cases of Acute Poliomyelitis notified in certain Countries of Europe, 1922.**

*Note:* The figures in *italics* denote the number of deaths, those in ordinary type the number of cases.

Country or Region	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Jan.-Dec.
ENGLAND and WALES . . . . .	26	15	17	13	17	12	23	42	58	49	60	17	349
HOLLAND . . . . .	2	<i>1</i>	<i>1</i>	<i>1</i>	0	0	<i>1</i>	—	—	—	—	—	6
SWITZERLAND . . . . .	3	0	0	2	1	3	8	9	8	13	9	9	65
AUSTRIA . . . . .	0	0	1	0	1	1	2	2	2	2	1	—	12
GERMANY . . . . .	11	14	25	9	7	10	26	121	120	97	120	27	587
DENMARK . . . . .	4	8	1	4	3	2	3	12	10	6	4	—	57
NORWAY (Cities only)	0	0	0	1	0	0	2	0	0	1	1	0	5
	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>1</i>
SWEDEN . . . . .	6	5	4	5	5	9	10	14	13	20	14	7	112
FINLAND . . . . .	8	4	1	6	1	0	9	2	2	1	4	0	38

TABLE No. 12.

**Cases of Encephalitis Lethargica in certain Countries of Europe, 1922.**

*Note:* The figures in *italics* denote the number of deaths, those in ordinary type the number of cases.

Country or Region	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Jan.-Dec.
ENGLAND and WALES . . . . .	23	46	68	53	60	25	20	48	28	23	34	35	463
HOLLAND . . . . .	9	5	8	4	3	4	<i>1</i>	—	—	—	—	—	34
BELGIUM . . . . .	3	0	2	2	2	3	2	2	2	1	2	0	21
SWITZERLAND . . . . .	7	5	14	13	3	1	1	2	1	4	6	5	62
DENMARK . . . . .	8	4	4	4	4	1	6	2	1	0	2	—	36
NORWAY (Cities only)	1	0	2	1	0	0	0	0	0	1	2	0	7
	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>3</i>
SWEDEN . . . . .	14	8	16	6	13	7	4	19	5	5	19	45	161
FINLAND . . . . .	8	16	8	6	2	1	1	0	1	1	1	1	46
LATVIA . . . . .	0	1	1	2	0	0	0	0	0	0	0	0	4
POLAND:													
City of Warsaw . . . . .	—	—	—	—	—	11	9	23	9	0	2	4	58

TABLE No. 13.

Cases of Influenza notified in certain Countries of Europe, 1922.

*Note:* The figures in *italics* denote the number of deaths, those in ordinary type the number of cases.

Country or Region	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total Jan.-Dec.
ENGLAND & WALES													
(large towns) . . .	<i>4871</i>	<i>3036</i>	<i>849</i>	<i>394</i>	<i>260</i>	<i>96</i>	<i>86</i>	<i>71</i>	<i>79</i>	<i>147</i>	<i>314</i>	<i>232</i>	<i>10435</i>
HOLLAND . . . . .	<i>1677</i>	<i>1529</i>	<i>280</i>	<i>77</i>	<i>27</i>	<i>12</i>	<i>6</i>	—	—	—	—	—	<i>3608</i>
SWITZERLAND . . .	22701	28999	7680	442	122	24	7	19	16	39	53	112	60214
GERMANY (large towns)	<i>2995</i>	<i>1026</i>	<i>576</i>	<i>338</i>	<i>185</i>	<i>82</i>	<i>72</i>	<i>59</i>	<i>66</i>	<i>117</i>	<i>440</i>	<i>900</i>	<i>6856</i>
DENMARK . . . . .	135017	70214	10947	6151	3852	1502	861	912	1061	1391	2191	—	234099
NORWAY (Cities only)	37405	9134	1206	537	314	222	111	139	239	331	643	—	50281
	<i>108</i>	<i>65</i>	<i>3</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>1</i>	—	<i>183</i>
SWEDEN . . . . .	39250	41637	7224	1932	652	77	56	56	148	282	574	783	92671
FINLAND . . . . .	14301	9433	10177	7148	2046	681	514	720	1016	2056	3352	3619	55063
LATVIA . . . . .	65	100	6	3	0	0	27	4	0	0	0	21	226
CONSTANTINOPLE .	7	48	42	16	10	4	4	1	0	0	1	7	140



## ADDITIONAL RESULTS OF THE RUSSIAN CENSUS OF 1920.

The classification of the information obtained by the Russian census of 1920 and by the supplementary figures collected from those governments in which no census was taken in 1920 is gradually being completed by the Central Statistical Bureau in Moscow. In the first official statistical annuary published in Moscow in 1922, additional data are found regarding the sex distribution of the population in each government and also the age distribution in about twenty governments. Although the latter represent merely a fraction of the whole of Russia, the data are fairly representative, because they refer to districts in widely separated regions and present various points of interest, which warrant an analysis, even before the final and complete reports become available.

Direct comparison with the census returns of earlier date is difficult because of the considerable changes made by the present Administration in the administrative divisions. Up to 1917, European Russia was divided into 53 governments, not counting Finland and Poland, of which about eight have been lost since the War. European Russia was composed, in 1922, of 42 governments, 6 allied or autonomous republics (of which the Ukraine consists of 12 governments) and 11 regions with varying degrees of self-government. The boundaries of nearly all the governments have, at the same time, been changed.

The population estimates of 1914 have been distributed according to the new administrative divisions by the Central Statistical Bureau at Moscow, and it is now possible to form some opinion as to where the huge losses of population have occurred. The reported rate of increase or decrease of population in each government is illustrated on the map, page 50. It should be borne in mind, however, that the population data for 1914 are nothing but an estimate based upon the census returns of 1897 and the registers of births and deaths in each district, and due importance has probably not been attached to the influence of migration. This estimate has, it is said, been revised by the Russian Central Statistical Office, which considers that the numbers are now approximately correct.

Apart from the depopulation of the large cities, already described in previous numbers, which, in the case of Moscow and Petrograd, reaches 40 and 65 per cent. respectively, a belt, in which marked depopulation has occurred, stretches without interruption from the White Russian country in the west to Astrakhan in the south-east, with an arm running southwards across the Ukraine towards the Black Sea. This belt covers regions of great variety, thinly populated swamps and poor soils in the extreme west, well-populated districts in the centre, and steppes in the east; the proportion of men to women in this belt is not everywhere low. In fact the deficiency of men is less marked than further to the north, which rather points towards other reasons than the military losses as a primary cause of the extreme depopulation as compared with other regions.

Several factors have evidently been active, and their effect is difficult to separate owing to unsatisfactory demographical data; there is little doubt, however, that the great epidemics, particularly of 1919 and 1920, have had a considerable influence in forming this belt of depopulation. The combined reported incidence of typhus and relapsing fever for the two years 1919-1920 reach a maximum of 206 cases per 1,000 inhabitants in the government of Orel, which is about in the centre of this belt, and where the population decreased by 16 %. In the neighbouring governments the corresponding epidemic incidence was 124 per 1,000 population in Kursk, 146 in Voronej, 148 in Tambov, 100 in Riazan, 109 in Tula, 115 in Kaluga and 81 in Gomel; the rate of incidence is distinctly lower elsewhere, ranging

from only 10 to 40 per 1,000 in the northern governments. The incidence of the two diseases exceeds 10% of the population in most governments of the Volga and Ural region, but the inevitably heavy mortality appears to have been more than counterbalanced by immigration; these regions are excluded, therefore, from the following table, which classifies the governments of Northern, Western and Central Russia according to percentage loss of population and to the reported rate of incidence of typhus and relapsing fever in the years 1919-1920.

*Percentage decrease of population :*

Epidemic Incidence	Under 5	5—9.9	10 and over
Under 50 . . . . .	5	4	0
50—99 . . . . .	3	3	4
100 and over . . . . .	1	1	4

This table shows that the higher the epidemic incidence the greater the decrease of population, provided that various irregularities due to other causes such as migrations are taken into account. This can be demonstrated in various other ways; of the 25 governments here considered, the incidence of typhus and relapsing fever was less than 50 per 1,000 in nine; in these nine governments the mean intercensal decrease of the population was 3.9%. The corresponding epidemic incidence was more than 50 per 1,000 but less than 100 in 10 governments, and the mean decrease of population was here 8.2%. In six governments where the epidemic incidence exceeded 100 per 1,000 inhabitants, the population had decreased 11.0% on the average, or, if leaving Tula, where the industries had attracted new population, out of consideration, the decrease in this group averages 12.7%<sup>1</sup>.

A less pronounced, but still marked, loss of population is shown in all the remainder of European Russia, except in the Crimea and some districts of the Eastern Ukraine where refugees were probably numerous at the time, and also in the region of the Middle Volga and in the Kuban and Terek districts where new rural settlement may have taken place; the increase in the latter regions does not exceed a few per cent. In the Ural districts the increase of population is, on the other hand, marked and exceeds everywhere 10 per cent. A similar increase has occurred throughout Siberia. It seems that Asiatic Russia has gained at the expense of European Russia, and this movement is likely to have been intensified by the Great Famine.

The general distribution of the population had not been greatly altered up to the time of the census; its density is indicated in the different governments on the chart, page 50. The greatest density of population is in Podolia, which forms the eastern extension of Galicia, where 86 inhabitants live on each square km. (about the same density as in Bavaria and more than in France). From this centre a fairly well-populated wedge, with its base in the Ukraine, stretches in a curve north-east, gradually disappearing north-east of Moscow. The Volga region contains 30 to 40 inhabitants per square km. on the western bank, and less than 30 on the eastern bank. Further east there is a density of less than 10 inhabitants per square km. Petrograd, now on the very outskirts of the Empire, is situated in a thinly populated region.

<sup>1</sup> A more definite measure is furnished by the coefficient of correlation between the decrease of population, as shown by the census, and the reported incidence of typhus and relapsing fever, for the same 25 governments. This coefficient is found to be :

$$r = 0.548 \pm 0.094$$

The coefficient being thus six times the probable error, a definite association between the two sets of observed facts is indicated. The mathematical probability that this correlation should be due to chance is as small as 1 to 11764.



The sex distribution of the population, which is now available for the whole area where the census has been taken, is of interest in furnishing some information on the regional distribution of military losses. The men who were serving in the army at the time of the census have not been included in the returns, and allowance for this must be made; the number of men under the colours has been given by M. Mikhailovsky, Chief of the Central Statistical Bureau, as 3 millions, but they have probably not been recruited evenly from the various regions of the State.

Pronounced geographical variations of sex distribution are shown by the map on page 50; in the outlying districts and allied republics, the proportion of men is far higher than in Russia proper; in the Kirghiz Republic the men are even in excess, while in Siberia, the Caucasus, the Crimea, the Eastern Ukraine and White Russia, the sex proportion was, at the time of the census, either normal or the number of men inferior to the number of women by not more than 10 per cent. It is in Great Russia that the proportion of men is the lowest; here the deficiency of men almost everywhere exceeds 20 per cent., while in eight governments of the central region round Moscow, the men number only 72 to 75 per cent. of the women.

This deficiency of men is due to causes differing according to age. Losses in the world-war and losses in the revolutionary war were heaviest among men of 25 to 40 at the time of the census; military conscription has affected mainly younger men, while disease and lack of nutrition has influenced the mortality at all ages. A certain migration of men from the country to the towns has occurred, although it has not made good the entire loss of urban population. The distribution according to age for each sex and the proportion between the sexes at each age is given below for the 175 rural ouyezds and for the cities of the 23 governments to which our data relate.

PERCENTAGE DISTRIBUTION BY AGES.

Ages	Males.		Females.		No. of men per 100 women	
	Urban	Rural	Urban	Rural	Urban	Rural
Under 5	9.2	13.4	7.6	10.7	100	100
5- 9	12.2	17.6	10.4	14.4	96	98
10-14	12.3	16.2	11.0	13.2	93	99
15-19	9.7	9.8	10.7	10.7	75	73
20-24	7.2	3.5	10.7	8.0	56	36
25-29	8.4	4.0	9.5	7.0	74	46
30-39	15.8	9.9	14.0	11.3	93	70
40-49	12.6	10.0	10.8	9.1	96	88
50-59	7.7	7.5	8.2	7.3	78	83
60 and over	4.9	8.1	7.1	8.3	57	78
All ages	100.0	100.0	100.0	100.0	83	80

For Russia as a whole the proportion between the sexes is 83 males to 100 females in the towns and 80 males to 100 females in the rural districts — quite a small difference. When analysed according to age, however, the difference becomes much larger. While the proportion of male and female children in the country and urban districts is normal, the deficiency of men of 20 to 39 is far more pronounced in the rural districts than in the cities. At ages over 50, on the other hand, the proportion of men is lower in the cities than in the country, while at ages over 60 the difference, in this sense, is pronounced. This fact is somewhat difficult to explain, but it is observed consistently in all European areas of Russia, and the only exceptions are the two Siberian governments for which data are available. The proportion of old women is also a little higher in the country than in the cities.



The proportion of children is, of course, higher in the country than in the towns, as is seen from the following figures:

Ages	Urban			Rural		
	Children	Per 1000 popul.	% of C	Children	Per 1000 popul.	% of C
A. Under 3 years . . . .	292,309	49.7	72	1,714,623	75.4	76
B. 3-5 » . . . .	319,281	54.3	78	1,670,158	73.4	74
C. 6-8 » . . . .	407,602	69.3	100	2,258,263	99.3	100

The deficiency of children during the revolutionary period is even greater than here indicated, since, owing to the high mortality in early childhood in Russia, a considerable number of these children will presumably die before reaching the age of three. It seems probable that the revolution has affected the birth-rate in the cities more than in the country districts, while the reverse seems to have been the case during the Great War; the differences may have been due to a shifting of the adult population or to other conditions that cannot be ascertained from the data.

The proportion between the sexes is fairly normal and also fairly equal in town and country up to the age of 16 years. At 17 years the census shows 81 men per 100 women in the towns and 80 in the country; at the age of 18 the ratio is 63 in the towns and 64 in the rural districts. At the age of 19 the deficiency of men becomes very pronounced, probably due to military conscription, while the urban and rural ratios begin to differ; the ratios are 49 in the urban and 34 in the rural areas. While up to this age military losses can have had no material influence, they must have been very high in the following age groups, and particularly so from 25 to 39 years, which correspond roughly to the age of those who bore the brunt of the fighting during the War. The deficiency of men at these ages will be felt for the next fifty years and remain noticeable at each future census. The proportion between the sexes at the ages from 17 to 39 years is given below for those areas of the geographical divisions from which data are available.

Ages	Male	Female	Ratio	Male	Female	Ratio
	<i>Western Region.</i>			<i>Northern Region.</i>		
17 . . . . .	28,516	38,525	74.0	23,368	29,333	79.7
18 . . . . .	20,845	37,645	55.4	17,629	27,133	65.0
19 . . . . .	10,788	33,027	32.7	7,750	24,595	31.5
20-24 . . . . .	42,012	162,453	25.9	39,560	115,742	34.2
25-29 . . . . .	75,287	142,249	52.9	46,580	102,803	45.3
30-39 . . . . .	175,705	218,345	80.5	122,640	167,053	73.4
	<i>Central Region.</i>			<i>Eastern Region.</i>		
17 . . . . .	95,631	126,442	75.6	48,747	55,594	87.7
18 . . . . .	73,964	119,730	61.8	35,266	52,249	67.5
19 . . . . .	34,667	103,837	33.4	17,466	44,658	39.1
20-24 . . . . .	180,041	476,794	37.8	81,718	223,687	36.5
25-29 . . . . .	201,643	413,561	48.8	98,864	193,783	51.0
30-39 . . . . .	491,480	679,047	72.4	237,384	315,508	75.2
	<i>Southern Region</i>			<i>Asiatic Russia.</i>		
17 . . . . .	57,306	71,523	80.1	22,562	24,044	93.8
18 . . . . .	44,734	65,845	67.9	15,102	23,580	64.0
19 . . . . .	24,474	51,691	47.3	7,988	21,375	37.4
20-24 . . . . .	116,422	253,039	46.0	62,016	100,328	61.8
25-29 . . . . .	126,076	230,341	54.7	71,682	88,001	81.5
30-39 . . . . .	236,483	338,796	69.8	132,014	142,365	92.7

Although the number of men has decreased far more than the number of women, even the latter have been affected by the events of the six years preceding the census; the number of female children has diminished just as much as the number of male children. The loss of population according to ages sustained by European Russia up to 1920 can be roughly shown in the following table. In this table the age distribution in the whole of Russia in 1920 is assumed to be identical with the known distribution in the previously mentioned area. The 1914 population has been arranged in the table according to the age groups shown in the 1897 census. The figures can, of course, only be considered approximate.

POPULATION OF EUROPEAN RUSSIA IN 1914 AND 1920, ESTIMATED BY GROUPS OF AGES DERIVED FROM THE CENSUS RETURNS OF 1897 AND 1920.

*Male Population*

Ages	1914	1920	Increase or Decrease	Per cent.
Under 5	8,296,371	5,743,913	— 2,552,458	— 30.8
5- 9	6,667,305	7,528,563	+ 861,258	+ 12.9
10-14	6,154,850	7,051,433	+ 896,583	+ 14.6
15-19	5,313,346	4,486,858	— 826,488	— 15.6
20-29	8,587,661	4,239,117	— 4,348,544	— 50.6
30-39	6,715,853	5,083,271	— 1,632,582	— 24.3
40-49	5,005,873	4,817,179	— 188,694	— 3.8
50-59	3,544,028	3,472,957	— 71,071	— 2.0
60 and over	3,641,125	3,408,727	— 232,398	— 6.4
Unknown	16,193	45,879	+ 29,686	—
All ages	53,942,605	45,877,897	— 8,064,708	— 15.0

*Female Population*

Ages	1914	1920	Increase or Decrease	Per cent.
Under 5	8,236,568	6,535,925	— 2,600,643	— 31.6
5- 9	6,664,283	7,574,148	+ 909,865	+ 13.7
10-14	6,101,570	7,093,781	+ 992,211	+ 16.3
15-19	5,698,845	5,987,822	+ 288,977	+ 5.1
20-29	8,843,415	8,937,048	+ 93,633	+ 1.1
30-39	6,862,888	6,641,343	— 221,545	— 3.2
40-49	5,091,998	5,267,272	+ 175,274	+ 3.4
50-59	3,745,901	4,161,312	+ 415,411	+ 11.1
60 and over	3,905,888	4,507,623	+ 601,735	+ 15.4
Unknown	16,554	50,272	+ 33,718	—
All ages	55,167,910	55,856,546	+ 688,636	+ 1.2

The table shows that the male population of European Russia has decreased by about 8 millions, while the female population has increased slightly, but it should be borne in mind that the population

would normally have increased by about 9 per cent. during this period. All age groups thus really show a decrease from the normal with the exception of children from 5 to 14 years of age and women over 50 years. The table shows that the female population has suffered the greatest loss at the ages of 30 to 39, but the effects of emigration and disease cannot be separated.

If the estimated normal increase of population of about 9 % can be accepted, there would have been an increase of approximately 9,800,000 persons; instead of this increase there is actually a decrease shown of about 4,400,000, allowing for the size of the army (3,000,000 men), whose numbers were not included in the census. The losses due to the war and revolution have been estimated by M. Mikhailowsky at about  $3\frac{1}{2}$  millions. Taking into account these losses, there would remain a total deficit from the expected population, had normal conditions prevailed, of something like  $10\frac{1}{2}$  millions. This deficit may be said to be due to three principal causes: diminished birth-rate, disease and emigration. It is impossible to estimate, without more specific data, the amount of loss which should be attributed to each of these causes.

Disease and famine have continued to reduce the population during the two years which have passed since the census, and the birth-rate has remained very low. The extensive and continued depopulation is therefore an important factor in the general economic situation.



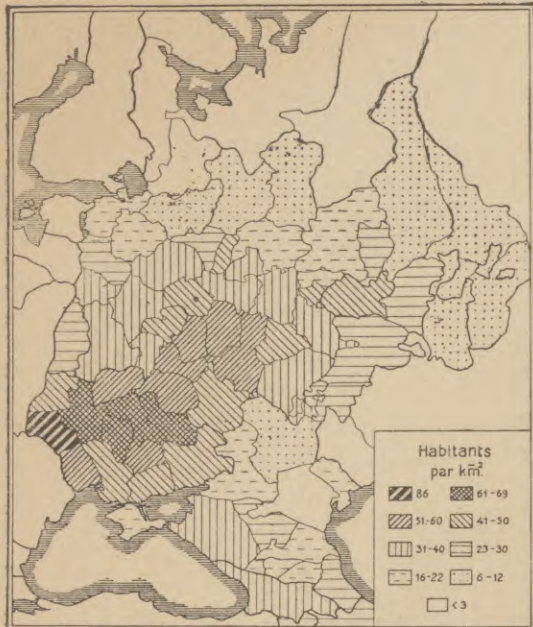
PROPORTIONATE INCREASE OR DECREASE OF THE POPULATION OF RUSSIA FROM 1914 TO 1920  
THE DENSITY OF POPULATION AND THE RATIO OF MALES TO FEMALES  
INDICATED BY THE CENSUS OF 1920.

Government	Inhabitants per sq. km.	Percentage of increase or decrease	No. of men per 100 women	Government	Inhabitants per sq. km.	Percentage of increase or decrease	No. of men per 100 women
<i>Western Region :</i>				<i>The Ukraine (continued):</i>			
City of Petrograd . .	2,824	— 64.8	72.2	Gov. of Kremenchug	62	— 9.6	80.5
Gov. of Petrograd . .	21	— 2.6	77.0	» Poltava . .	62	— 16.6	91.1
» Novgorod . .	18	— 0.9	79.5	» Kharkov . .	66	— 6.0	89.0
» Pskov . . .	29	— 6.5	78.5	» Odessa . . .	60	— 0.3	88.2
» Vitebsk . . .	34	— 18.6	82.6	» Nicolaiev . .	49	— 9.3	83.5
White Russian Rep. . .	27	— 14.1	96.9	» Ekaterinoslav	57	+ 11.4	90.6
Gov. of Gomel . . .	38	— 14.8	82.8	» Zaporozhe . .	48	— 19.1	80.1
				» Donetsk . . .	45	+ 17.3	89.0
<i>Northern Region :</i>				<i>Crimea . . . . .</i>	20	+ 12.4	95.7
Murman Territory . .	0	+ 46.0	138.5	<i>Middle Volga Region :</i>			
Karelian Comm. . . .	2	— 6.1	80.8	Gov. of Nijni-Novgorod	36	— 6.0	75.1
Gov. of Arkhangel . .	0.6	— 0.2	77.6	Mariskaia Region . .	19	— 7.6	77.5
» Olonetz . . .	3	— 7.1	76.0	Chuvach Region . . .	44	+ 1.8	84.2
» Cherepovetz . .	10	— 4.8	77.1	Tartar Republic . . .	43	— 6.3	82.9
» Vologda . . .	9	— 2.8	78.5	Gov. of Simbirsk . .	39	+ 0.5	78.1
» Severodvinsk . .	6	+ 1.9	81.4	» Penza . . . .	45	— 2.1	79.8
» Zirian Region . .	0.7	— 5.8	77.7	» Saratov . . . .	32	+ 3.4	81.1
» Kostroma . . .	16	— 5.3	74.6	» Samara . . . .	27	+ 5.1	81.6
<i>Central Region :</i>				German Comm. . . .	23	+ 3.9	88.6
Gov. of Rybinsk . . .	26	+ 1.2	71.6	<i>Southern Region :</i>			
» Yaroslavl . . . .	41	+ 3.8	72.8	Gov. of Tzaritzin . .	12	— 21.0	76.2
» Ivanovo-				» Astrakhan . . . .	18	— 8.9	79.6
» Vosniessensk . .	36	— 7.6	73.5	Kalmuk Territory . .	1	— 18.9	87.5
» Vladimir . . . .	33	— 16.7	74.2	Don Region. . . . .	21	— 2.8	79.6
» Tver . . . . .	33	— 4.0	74.7	Kubano-Chernomorsk	31	+ 1.6	85.7
» Smolensk . . . .	35	— 5.6	78.3	Stavropol. . . . .	23	+ 4.6	86.3
City of Moscow . . .	3,371	— 40.3	95.4	Terek . . . . .	11	+ 3.2	89.9
Gov. of Moscow . . .	46	— 5.3	72.8	Gorskaia Republic . .	18	+ 11.5	100.8
» Kaluga . . . . .	41	— 11.0	72.1	<i>Eastern Region :</i>			
» Tula . . . . .	56	— 2.3	82.0	Gov. of Viatka . . . .	19	— 10.7	76.9
» Riazan . . . . .	51	— 16.7	77.8	Votyak Region . . . .	24	— 10.5	77.3
<i>South-Central Region :</i>				Gov. of Perm . . . . .	8	— 5.9	77.2
Gov. of Briansk . . .	36	— 9.0	83.2	» Ekaterinburg . . .	12	— 0.3	80.9
» Orel . . . . .	56	— 16.0	80.0	» Tiumen . . . . .	1	+ 14.7	88.0
» Tambov . . . . .	51	+ 2.1	82.1	» Cheliabinsk . . . .	12	+ 14.8	79.3
» Voronezh . . . .	46	— 9.4	82.2	Bachkir Republic . . .	12	+ 4.4	88.9
» Kursk . . . . .	59	— 10.5	84.3	Gov. of Ufa . . . . .	28	+ 6.1	87.0
<i>The Ukraine :</i>				<i>Kirghiz Republic . . .</i>	2	+ 13.1	—
Dist. of Volhynia . .	45	— 2.9	78.2	<i>Siberia . . . . .</i>	0.8	+ 22.5	—
» Podolia . . . . .	86	— 16.3	83.2				
» Kiev . . . . .	68	— 4.6	84.9				
» Chernigov . . . .	55	— 13.0	86.9				

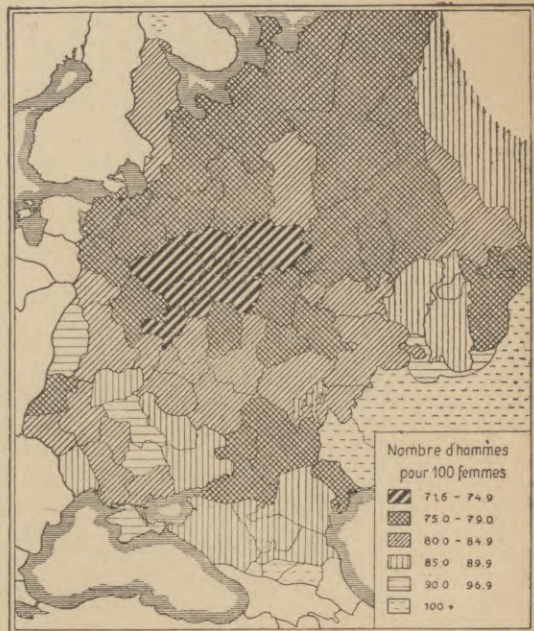
Note: No census has been taken in Turkestan or the Transcaucasian Republics.

Elements of the Russian Census Statistics of 1920 and corresponding data for 1914.

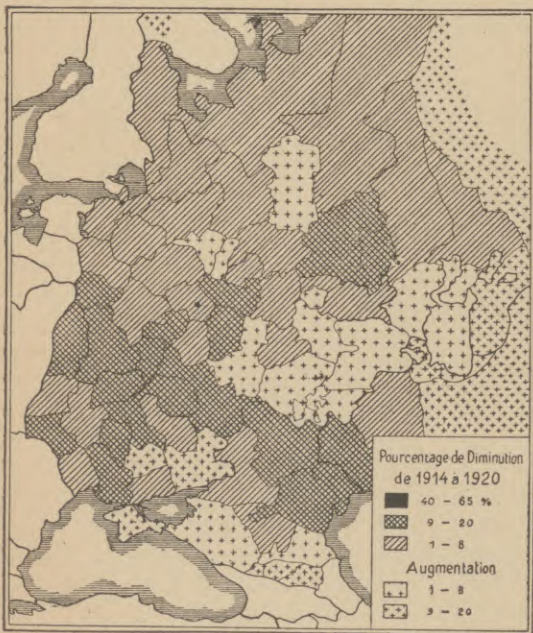
Densité de la Population - Recensement 1920.



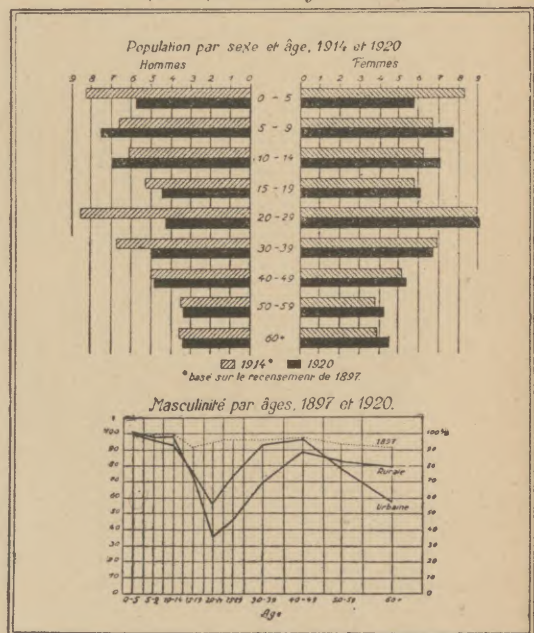
Proportion des Sexes - Recensement 1920.



Mouvement de la Population 1914-1920.



Russie d'Europe  
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