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AFDELING AGRARISCHE GESCHIEDENIS
LANDBOUWHOGESCHOOL

A.A.G. BIJDAGEN 10

B. H. SLICHER VAN BATH
Yield ratios, 810-1820

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495450



„That reader who thinks slightly of the use of collecting a great mass of facts in these inquiries, has not, it is to be presumed, reflected sufficiently on the great importance, in every science, of combining circumstances apparently unconnected, in order for mutual illustration. He who collects such facts, insulated for a time only, may not live to see the effect of such comparisons; but the gradation of knowledge is preserved without interruption, and the uses will undoubtedly be discovered”.

A. YOUNG, Notes on the agriculture of Lombardy, in the *Travels during the years 1787, 1788 and 1789 . . . in France, 1794²*, sect. II 208

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INTRODUCTION¹⁾

I. THE ECONOMIC IMPORTANCE OF YIELD RATIOS

As long as agriculture was the chief means of sustenance in most countries and cereals were the most important crops for human consumption, economic development was strongly influenced by the cereal yields. The whole economy was for a great part dependent on the annual harvests. In such an agricultural society the rise of the average yield ratios of cereals for human consumption during a longer period can be considered as an indication of economic growth. It is surprising that economic historians till now have paid so little attention to the yield ratios in the past. Only during recent years data on this subject have been published in many countries.

Not only in the macro-economic society, but also on the micro-economic scale of individual farming the yield ratios influence the economic activities. There exists a close connection between the area of the farmlands and their total produce. A rise of the average yield ratios would make it possible for every individual farmer either to reduce the size of the whole concern, for instance by division, or by reducing the area for cereals and to cultivate other more paying crops instead.

II. THEORETICAL ASPECTS

Yields and food (Fig. II, 1). Meagre yield ratios of 1:3,0 or 4,0, which were the rule in the middle ages and even in many countries till the eighteenth century, for the principal cereals such as rye and wheat, meant that a large part of the arable had to be kept for growing the next year's seed. When the yield ratio was 1:3,0, one third of the whole arable had to be used to raise the seed for the following year. Since scarcely one third of the farmland in the three-course rotation was used each year for rye or wheat, the evil of the low yields becomes even clearer. Two ninths of the arable was left to provide for human consumption with bread with the three-course rotation and only one sixth with the two-course rotation. With these low yield ratios a rise or a decrease has a big effect. A rise in yield from 3,0 to 4,0 has the result of increasing the crop grown on the original area by $\frac{1}{3}$, and, furthermore, barely $\frac{1}{4}$ of the farmland, instead of $\frac{1}{3}$ as before, has to be reserved for seed, so that the area which can be sown with cereals for consumption is increased by $\frac{1}{12}$. The rise in yield has a cumulative effect in that the larger proportion of land that can now be used for foodcrops is added to it. Conversely, a lowering of the yield ratio

¹⁾ This introduction is a summary of an article in Dutch, published in *A.A.G. Bijdragen*, 9 (1963). For the references to graphs and tables see that article.

The term yield ratio is used to describe the proportion of seed to yield.

means not only a diminished cereal harvest, but also a still smaller area that can be cultivated with cereals for human food.

If the yield ratio = a , the proportion of seedcorn to yield is $1:a$ or $(1:a):1$. Since $1:a$ of this crop must be reserved for the following year, there remains for consumption $1 - (1:a)$ or $(a - 1):a$. Adding successively units to a , each unit added will put less weight on the scale than the one before. The difference between $1/2$ and $2/3$ ($0,167$) is greater than that between $2/3$ and $3/4$ ($0,083$). A rise in the yield ratio from $3,0$ to $4,0$ has a more rewarding effect than one from $9,0$ to $12,0$ (Fig. II, 1).

The feeding of a partly non-agrarian population (Fig. II, 2).

The importance of the yield ratio when the yields are low, makes itself felt in many directions. So, if there is a rise, fewer hectares are required for the permanent feeding of one person, though, here too, the effect lessens as the rise continues. A transition from the two-course to the three-course rotation is of special significance in the case of a low yield ratio such as existed in the middle ages and, in many parts, much later. With the three-course rotation considerably less land was required to feed the same number of people than with the two-course rotation. In other words, from the same area of land more people could be fed (Fig. II, 2).

A calculation of the area required to feed a non-agrarian group, e.g. of town dwellers, presents more difficulties because other factors come into play. The town dwellers must be fed from surplus production. From the total harvest must be deducted not only the seedcorn, but also the amount needed for feeding the farmer's household. This last can be calculated only if the number of the family and living-in employees, as well as the size of the farm, is known. After subtraction of the seedcorn and food for the farming population, the non-agrarian population can be fed from the combined surplus of all the farms. The surplus of cereals will be largest from a big farm with a small household and few resident workers. If the yield ratio increases, the farm can be a smaller one. In a cereal cultivation with low yield ratios, it is the large farms that count most in production for the market, because only these are in a position to provide a considerable surplus.

It is the *proportion* between the dimensions of the farm and its household that determines the amount of the surplus grain not consumed on the farm. The optimal proportion between farm and household is that in which the surplus is largest. Disturbances may occur in the proportion between the size of the farm and that of the household and/or in the proportion between seedcorn and yield, and if the optimal proportion between the former has been reached, a further increase of farmland or shrinkage of household may prove unfavourable to farming returns. These variable factors, the proportion between farm and

household on one side and between seedcorn and yield on the other, have a bearing on the total area of arable land required, and hence on the whole business of farming. If there exists only a local or regional market of grains and no imports from other countries can supply the deficiencies, the yield ratios determine the size of the non-agrarian population, the people who are working in industries, commerce and shipping. In a country with rather low yield ratios highly developed industry, commerce and transport are impossible.

Net proceeds of farming. The various departments of a farm show a complex interdependence; there were narrow boundaries that restricted the practice of farming. If, because of a low yield ratio, a wider area of farmland must be tilled than would be necessary with a high one, more draught animals must be kept for ploughing and manure cartage. Draught animals must be fed. In the middle ages, horses as well as oxen were fed on oats, but the oxen got barely half as much as the horses. In general the yield ratio of oats is very low, often no more than 3,0. With the two-course rotation the amount of oats grown as a summer cereal is not enough to feed the horses, but will suffice for oxen. Unless the oats are grown outside the two-course rotation fields, oxen must be used for draught. The change to horses can only be made if there are enough oats available for them, and this can be achieved by moving from the two-course to the three-course rotation.

The area of cultivation is linked with the manuring, since land must be adequately manured to keep its fertility. The amount of dung obtained is related to the amount of straw and hay fed to the horses and cattle, so that there is a certain connection between the quantities of fodder and dung on the one hand, and the rye and wheat produced on the other. There was also a connection between the area of the meadows, hayfields and wasteland, which served as pasture, and the size of the arable.

It is difficult to assess the influence of the yield ratio on the returns of the farm in relation to the many outgoings as rents, taxes, tithes, etc., varying with each farm. But once more it appears that relatively big concerns with favourable proportions between farm and household had the advantage, as the taxes, rents and tithes had to be paid from the surplus grain not consumed on the farm.

III. THE YIELD RATIOS OF VARIOUS EUROPEAN COUNTRIES BEFORE 1820

The sources. The yield ratios or the data from which they can be calculated are mainly found in accounts. There exist accounts of mediaeval English monasteries and ecclesiastical estates, of royal and titled estates in Germany, Denmark, Poland and Russia of the sixteenth, seventeenth and eighteenth centuries. Yield ratios are also mentioned

in the reports of the agricultural tours, as those of Arthur Young and William Marshall, which came into vogue in the eighteenth century. Official inquiries were made in the nineteenth century in France, the Netherlands and Russia.

Not all these sources are equally reliable. The yield ratios in some accounts may be too low, as sometimes the tithes were taken from the sheaves on the fields and were not included in the harvest returns. The day-labourers received in some cases their wages in kind immediately after the reaping of the crops. The yield ratios mentioned in the records of the tours and the inquiries on the other hand may be too high, as the authors paid special attention to the good results.

In some mediaeval accounts there are not the true yield ratios given, but the *responsio*, the quantity that the tenant should have attained, allowing for weather conditions and yields elsewhere.

Exceptionally good yields were obtained on some model farms, like those of David Möllinger at Pfeddersheim in the Palatinate and of Philipp Emanuel von Fellenberg at Hofwyl near Berne. They do not represent the level of normal agriculture.

The data (tables 1, a-c). Totalling 11.462 yield ratios have been collected, chiefly of cereals (82,7 %), the rest pulses (9,6%) and some other crops (7,7%). The geographical and chronological distribution of the data is not equal. The mediaeval yield ratios refer especially to England, those of the sixteenth and seventeenth centuries mainly to Poland, Germany, Denmark, Estonia and in a lesser extent to Sweden and Russia. In Germany the yield ratios were much lower in the eastern states than in the northern and western as Schleswig-Holstein and East Friesland.

The data from the following books and articles, have not been included in the calculations of the tables, published in *A.A.G. Bijdragen*, 9, having come too late to my knowledge: P. Horváth, J. Leskiewiczowa, O. Martin - Lorber, A. Plaisse and A. Wawrzyńczyk (c)¹.

There are some difficulties with the yield ratios on the manors of the bishopric of Winchester. The statistical data of N.S.B. Gras on the quantities sown and the total produce in the years 1208-9, 1299-1300 and 1396-7 are not correct²). They have not been used at all. In the calculations of the tables the yield ratios mentioned in the article of Lord Beveridge have been included. The average yield ratios published in the article of J. Titow refer only to wheat³). Inclusion of Titow's data would have made a slight change in the wheat averages:

¹) The titles are mentioned in the list of books and articles.

²) N.S.B. Gras, *The evolution of the English corn market from the twelfth to the eighteenth century*, Harvard economic studies, XIII, 1915, appendix A, p. 261-270. (Information kindly supplied by Mr. Titow).

³) The titles are mentioned in the list of books and articles.

3,1 instead of 2,9 during the period 1200-1249 and 4,1 instead of 4,2 during the period 1250-1299.

The increase of the average yield ratios in various countries (tables 2, a-q; 3, a-i; 4, a-b; Fig. III, 1-15). If we take the averages of the yield ratios in periods of fifty years, we find an uniform development of the yield ratios in four groups of countries. Between these groups of countries exist great differences.

Group I : England, Ireland, Belgium, the Netherlands

Group II : France, Spain, Italy

Group III: Germany, Switzerland, Denmark, Sweden, Norway

Group IV: Czecho-Slovakia, Poland, Lithuania, Latvia, Estonia, Russia.

In each group the increase of wheat, rye, barley and oats continued at the same stages. It is possible to discern four phases. For the four principal grains together they are as follows¹⁾:

phase A, average yield ratio 3,0-3,7		
group I (England)	1200-1249	3,7
group II (France)	before 1200	3,0
phase B, average yield ratio 4,1-4,7		
group I (England)	1250-1499	4,7
group II (France)	1300-1499	4,3
group III (Germany, Scandinavia)	1500-1699	4,2
group IV (Eastern Europe)	1550-1820	4,1
phase C, average yield ratio 6,3-7,0		
group I (England, the Netherlands)	1500-1699	7,0
group II (France, Spain, Italy)	1500-1820	6,3
group III (Germany, Scandinavia)	1700-1820	6,4
phase D, average yield ratio above 10,0		
group I (England, Ireland, Belgium, the Netherlands)	1750-1820	10,6

In 1820 we find in Europe three different phases of the development: group I 10,6, groups II and III 6,3-6,4 and group IV 4,1. Highly economic developed countries, which were also densely populated, such as England, Belgium and the Netherlands, showed the highest increase. In Eastern Europe, especially in Russia, no development at all took place, the yield ratios remained on the same low level for several centuries.

High yields were sometimes incidentally reached as a result of good weather or cultivation on newly reclaimed lands, but there were also high yields on farms for longer periods, owing to better farming methods, heavier manuring, etc. The transition from phase B to C and from phase C to D did not occur suddenly, but had been prepared by

¹⁾ With some corrections.

some farmers who had taken the lead in agricultural development. They were working under good conditions and willing to incur great expense.

The transition to a higher phase is always accompanied by an increase in population: phase A to B about 1250, phase B to C about 1500 in the western countries and about 1800 in Central and Northern Europe, phase C to D about 1750 in England, Ireland, Belgium and the Netherlands.

The suggestion of great agricultural progress between the ninth and the thirteenth centuries, proposed by Duby¹), is based on miscalculation, as he compares dissimilar quantities, viz. the ratio of the yield minus the seed in proportion to the seed, $(a-1):1$, in the ninth century, with the ratio of the total yield in proportion to the seed, $b:1$, in the thirteenth century. The average of the yield ratios in the ninth century is 2,8, and not 1,8 as Duby supposes, so the progress is much less. For instance the yield ratio of wheat was 2,7 in the ninth century and 2,9 or 3,1 in England during the first half of the thirteenth century.

Consequences of the increase of the average yield ratios. The increase of the average yield ratios opened up many possibilities. The two extremes were, either an increase of the total cereal produce on the same acreage, or the same quantity of grains as before, but cultivated over a much smaller area. In that case the unused acreage could be turned to other purposes. The transition to a higher phase (A to B, B to C, C to D) meant a rise in produce of about 60-65 % or a reduction of the area of cereals with 35-40 %.

The increase of the total produce created the possibility of a proportional growth of the population, as can be seen in the cases of England, Ireland and Sweden.

The increase of cereals never led immediately to a fall in grain prices. The demand remained high as a result of the increase in population.

The decline of the average yield ratios during the late middle ages and the seventeenth century (tables 5, a - c). The averages of the yield ratios do not show a continuous rise, a fall appeared in 1300-1349, 1400-1499 and 1600-1699. We find the decline during the late middle ages in England and France, that of the seventeenth century in England, Germany, Scandinavia and Eastern Europe. This points to a general phenomenon, exceeding regional or national significance. The decline of barley and oats was greater than that of wheat and rye. The fluctuations were sharper in Central, Northern and Eastern Europe than in the western countries.

The decline in both periods had already been observed by historians. Some thought of an exhaustion of the soil during the later middle

¹) G. Duby, (d) 85, 190. In the scheme above the data of the ninth century are included in those of phase A, group II (France) before 1200.

ages, others blamed the weather that caused crop failures over and over again. Polish and Baltic historians attributed the fall to the system of great landownership and the aggravation of bondage in these countries. The Thirty Years War cannot be responsible, since the decline in Germany started already in the second half of the sixteenth century. Changes in the climate can only have influenced the yield ratios in regions where cultivation was practised under marginal conditions as in northern Sweden, northern Russia, Finland and the Alps.

Lower average yield ratios meant a smaller total produce. Besides, it is known that during the later middle ages and the seventeenth century the acreage also decreased („Wüstungen“, „lost villages“), or at the best remained the same. The decrease of the total produce was not accompanied by a rise of grain prices, they fell too. In general, the decline of the yield ratios must be interpreted as a consequence of the economic depressions. The low cereal prices did not encourage the farmers to go to great expenses on manuring, marling, wages, etc.

Annual fluctuations of the yields. Poor, „normal“ and good harvests (tables 6, a-c). Among our data we have the disposal of 127 series of successive yield ratios during periods of at least five years. Titow gives in his article the average yield ratios of wheat during the period 1211-1350. Ruwet has published the yields of rye, oats and spelt in the bishopric of Liège during the years 1714-1746. In the historical literature some historians have used Swedish data, but recent investigation has shown that these refer to prices instead of yields, so they are of less scientific value.

We can ascertain that the annual yields of estates in the same country and generally under the same administration present similar fluctuations. On the other hand however, there is no conformity between the course of the yields of estates in different countries during the same period, for instance in Schleswig-Holstein and in France, or in Lusatia, in the Palatinate and in Sweden. The weather conditions in these countries differed too much. The years of crop failures which hit the whole of Europe were an exception.

If we consider the average harvest as „normal“ (100 %), those of more than 115 % of the average good, and those of less than 85 % of the average poor harvests, then about half of the harvests were normal, a quarter was poor and a quarter was good. A calculation from Titow's list indicates a better result: 2/3 normal, 1/5 good and 1/7 poor, but his yield ratios are averages from app. 40 manors, so in this calculation the good and poor yields are already eliminated.

The good harvests amounted to 130-170 %, the poor ones to 50-70 % of the normal harvests. When we remember the four phases, we can observe that the good harvests reached the level of the higher phase, that in the future generally would be reached and that the poor

harvests fell back to the level of a former stage in the development. When phase C is normal, the good harvests are on the level of phase D, which will be reached in a distant future, the poor harvests are a decline to phase B. A series of crop failures was therefore very serious, because a country with an increased population was forced to live on the lower level, which was normal during former centuries and then only sufficient for the feeding of a smaller population.

Increase and decrease in the yield ratios, which were small fluctuations in our opinion, were of great significance seen in the perspective of former generations, accustomed to the general low level of the yield ratios. The increase from 3,0 to 4,0 (phase A to B), from 4,0 to 6,0 (phase B to C), from 6,0 to 10,0 (phase C to D) may seem to us as of little importance, but they were a remarkable advance on anything ever been known. A decline to the same extent was fatal. The possibility of decrease was always present and that made life very precarious at that stage of economic and agricultural development.

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PRACTICAL HINTS

In the following list the yield ratios have only been collected from printed sources as far as they were known to the author and were available in Dutch libraries.

Yield ratios of unspecified crops such as „grains”, etc. have not been included in this collection.

The year 1820 is chosen as terminal year, with exception of Russia (1850) in view of some important sources of the period 1821–1850. These Russian data are published in the Appendix.

The yield ratios are arranged according to :

1. crops; 2. centuries; 3. countries.

The countries rank always in the same order: Great Britain, Ireland, France, Spain, Italy, Belgium, the Netherlands, Switzerland, Germany, Denmark, Sweden, Norway, Czecho-Slovakia, Poland, Lithuania, Latvia, Estonia, Russia.

If there are three or more yield ratios from the same place or the same farm, the average has been calculated by the author (av.).

The addition „calculated” means that the yield ratios are not printed in the sources, but have been calculated by the author on the basis of the data mentioned in these sources.

The term „responsio” indicates the quantity that the tenant should have attained, allowing for weather conditions and yields elsewhere.

WHEAT

I. NINTH CENTURY

A. FRANCE

1. PH. GRIERSON, 461; see B. H. SLICHER VAN BATH, (a) 76 (supposition); G. DUBY, (d) 85; DUBY's yield ratio: 1,7 is not correct, as he calculates harvest minus sowing seed

Annappes, near Lille 810 2,7

II. TWELFTH CENTURY

A. FRANCE

1. G. DUBY, (a) 138

Manors near Cluny	
1155-6	
Montberthoud	4,0
Saint-Hippolyte	4,0
Berzé	2,5
Saint-Martin	2,3
Malay	2,0

III. THIRTEENTH CENTURY

A. GREAT BRITAIN

1. ANONYMOUS HUSBANDRY, 71

Thirteenth century in England 5,0

2. W. H. BEVERIDGE, 161 table III B

Manors	Counties	1200-1249	1250-1299
Nailsbourne*	Somerset	—	3,1
Downton*	Wilts.	2,7	2,5
Witney	Oxon.	2,9	2,8
Wargrave	Berksh.	5,8	4,0
Wycombe	Bucks.	3,7	2,9
Ecchinswell*	Hants (N.)	5,7	4,5
Overton*	Hants (Mid.)	3,7	4,2
Meon*	Hants (S.)	5,2	4,4
av. 5 manors(*)		4,1	3,7
av. 8 manors		4,2	3,5

3. J. TITOW, 365-402

Averages of yield ratios of the manors of the bishopric of Winchester

Manors	Year	av.	Manors	Year	av.
33	1211	3,2	33	1271	3,3
25	1218	3,0	33	1272	4,6
22	1219	3,5	34	1273	3,4
27	1220	3,2	34	1274	3,3
31	1224	3,0	37	1277	4,4
26	1225	3,9	39	1283	2,8
26	1226	2,8	37	1284	3,4
35	1232	4,6	31	1285	3,3
35	1236	5,1	33	1286	3,5
39	1245	4,2	38	1287	4,6
38	1246	3,3	38	1288	4,2
38	1247	3,5	37	1289	3,4
37	1248	4,7	31	1290	3,1
38	1252	4,0	32	1291	3,5
36	1253	4,0	33	1292	3,5
34	1254	3,8	28	1296	c. 4,4
37	1257	3,5	36	1297	3,9
39	1265	4,0	36	1298	4,9
37	1268	3,8	36	1299	3,8
				av.	3,7

J. TITOW, 373, n. 1 and 3

Manors in Hampshire

	Alresford	Wield	North Waltham
1268	4,1	3,8	3,9
1269	2,3	3,5	4,2
1270	3,2	3,8	3,2
1271	2,6	2,7	3,6
av.	3,0	3,4	3,7

4. J. A. RAFTIS, 164-167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire

Year	Upwood	Wistow	Warboys	Elton	Broughton and Ripton Regis
1244	-	-	-	-	4,2
1247	3,3	6,8	-	-	-
1250	2,8	4,3	3,9	-	8,3
1252	4,9	5,9	-	-	5,3
1254	-	-	6,6	-	-
1286	-	-	-	3,0	-
1297	-	6,5	-	5,1	-
1299(?)	6,1	-	-	-	-
av.	4,3	5,9	-	-	5,9

Wheat, 13th century

5. A. BALLARD, 459 (calculated on the base of the quantities of sowing-seed mentioned on p. 448)

Manors in Oxfordshire

Year	Bladon	Combe	Handborough	Wootton
1243	2,9	2,0	2,0	2,5
1244	3,4	3,2	3,1	3,0
1245	2,5	2,6	3,1	2,0
1246	1,9	2,0	1,9	1,3
1247	2,5	2,0	2,2	1,4
1248	2,1	3,2	2,5	1,2
1249	3,0	1,9	2,2	1,5
1263	2,0	—	—	—
1277	—	2,2	—	2,5
1278	—	2,7	—	3,0
1282	—	—	2,2	—
1283	—	—	2,7	—
1289	—	3,7	—	2,7
1294	—	2,7	—	2,4
av.	2,5	2,6	2,4	2,1

6. R. LENNARD, 18 n. 4

Sutton, Hants(?) 1248 3,5

7. F. M. PAGE, 329 appendix II

Oakington, near Cambridge

1271-2	6,1
1281-2	5,6
1282-3	6,2
1289-90	3,5
1290-1	3,4
1291-2	6,5
1296-7	3,6
1297-8	3,4
1298-9	6,9
av.	5,0

8. F. G. DAVENPORT, 30 n. 1 and appendix VIII, p. XXXVI-XXXVII;
R. LENNARD, 16, 20 n. 1

Forngett manor, near Norwich

1273	5,3
1290	5,0
1293	4,5
av.	4,9

9. M. W. FARR, 53-173 (calculated)

 Manors of Sevenhampton and Stratton, Wiltshire (from 1275-6 manor of Sevenhampton only)

1273-4	4,0	1281-2	4,1
1274-5	4,4	1282-3	3,3
1275-6	7,0	1283-4	3,3
1276-7	2,9	1284-5	4,5
1277-8	4,3	1285-6	4,1
1278-9	7,1	1286-7	3,9
1280-1	4,6	av.	4,4

10. F. B. STITT, 40-41 table 3 (calculated)

 Demesne at Lenton, Nottinghamshire

1296-7	3,8
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11. M. MORGAN, 102 (calculated)

 Blakenham, near Bury St. Edmunds

1294-5	2,5
1297-8	4,3
1298-9	2,9
av.	3,2

IV. FOURTEENTH CENTURY

A. GREAT BRITAIN

1. W. H. BEVERIDGE, 161 table III B

Manors	Counties	1300-1349	1350-1399
Nailsbourne*	Somerset	4,3	4,6
Downton*	Wilts.	3,4	3,4
Witney	Oxon.	3,0	3,3
Wargrave	Berksh.	4,1	3,7
Wycombe	Bucks.	3,0	3,8
Ecchinswell*	Hants (N.)	4,5	4,9
Overton*	Hants (Mid.)	3,7	3,5
Meon*	Hants (S.)	5,3	5,2
av. 5 manors(*)		4,2	4,3
av. 8 manors		3,9	4,1

Wheat, 14th century

2. J. TITOW, 365-402

Averages of yield ratios of the manors of the bishopric of Winchester

Manors	Year	av.	Manors	Year	av.
36	1300	3,6	36	1328	3,8
38	1301	4,2	35	1329	4,2
37	1302	3,9	34	1330	4,0
35	1305	4,4	35	1331	4,1
37	1306	4,1	32	1332	4,4
36	1307	3,9	38	1335	3,8
37	1308	3,9	37	1336	4,2
38	1309	4,5	38	1337	4,9
38	1310	3,2	38	1338	4,7
38	1311	4,5	38	1339	2,3
37	1312	4,3	38	1340	4,1
38	1313	4,7	38	1341	3,3
37	1314	4,1	38	1342	4,1
36	1315	2,5	38	1343	3,2
35	1316	2,1	38	1344	4,9
34	1317	3,3	38	1345	4,0
36	1318	5,1	38	1346	3,1
35	1320	3,9	38	1347	3,4
36	1324	3,6	37	1348	4,0
37	1325	4,9	35	1349	2,2
38	1326	5,1	38	1350	2,7
37	1327	4,3		av.	3,9

3. F. M. PAGE, 329-330 appendix II

Oakington, near Cambridge

1304-5	3,3	1371-2	6,2	1385-6	6,1
1307-8	5,7	1372-3	6,3	1386-7	5,2
1319-20	6,0	1373-4	6,2	1387-8	9,0
		1374-5	5,4	1388-9	6,6
1361-2	5,8	1375-6	4,5	1389-90	5,6
1362-3	6,4	1376-7	7,6	1390-1	5,6
1363-4	4,8	1377-8	7,0	1391-2	5,3
1364-5	6,6	1378-9	7,0	1392-3	9,9
1365-6	6,7	1379-80	6,3	1393-4	-
1366-7	5,6	1380-1	6,7	1394-5	3,2
1367-8	3,5	1381-2	6,5	1395-6	3,9
1368-9	4,4	1382-3	6,5	1396-7	5,4
1369-70	2,4	1383-4	6,3	1397-8	4,4
1370-1	5,4	1384-5	6,3	1398-9	4,5
				av.	5,7

4. M. MORGAN, 102 (calculated)

Blakenham, near Bury St. Edmunds

1299-1300	2,9
1300-1	3,2
1301-2	3,2
1302-3	2,7
1331-2	1,8
1332-3	1,6
1334-5	2,5
1335-6	1,6
1336-7	2,0
1337-8	2,4
1338-9	3,3
av.	2,4

5. F. G. DAVENPORT, 30 n. 1; R. LENNARD, 16, 21.

Forngett manor, near Norwich

1300	4,8
1303	5,7
1306	5,0

6. J. A. RAFTIS, 164-167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire

Year	Upwood	Wistow	Warboys	Elton	Broughton and Ripton Regis	Broughton and Ripton Regis
1302(?)	3,6	-	-	-	-	-
1306	4,3	-	-	-	-	-
1307	-	5,7	4,1	-	-	-
1311	-	5,1	-	4,3	-	4,4
1312(?)	6,2	-	-	-	-	-
1313	-	-	-	4,2	-	-
1316	-	-	2,7	-	-	-
1318	-	3,3	6,6	-	1,9	-
1319	5,0	-	-	-	-	-
1324	2,8	-	3,0	4,3	-	-
1325	-	-	-	-	2,7	-
1326(?)	3,0	-	-	-	-	-
1328	-	-	1,9	-	-	-
1335	-	3,3	2,5	-	-	-
1342	-	-	5,0	-	4,3	-
1343	6,6	-	-	-	-	-
1346	-	2,5	-	-	3,9	-

Wheat, 14th century

(Continued)

Year	Upwood	Wistow	Warboys	Elton	Broughton	Broughton and Ripton Regis
1349	-	-	-	2,0	-	-
1350	-	-	-	2,4	-	-
1378	-	-	-	-	3,2	-
1380	-	-	-	-	2,6	-
1385	4,4	-	-	-	-	-
1386	3,8	-	-	-	6,2	-
1392	3,9	-	-	-	7,5	-
av.	4,4	4,0	3,7	3,4	4,0	-

Id., 174, 178 table XXXVII, yield ratios (responsio)

Huntingdonshire

Year	Upwood	Wistow	Warboys	Weston	Brough- ton	Abbots Ripton	Hough- ton	Slepe	Holy- well
1324	4,5+	-	-	2,0	-	2,5	3,5-	-	1,5+
1336	-	-	-	-	-	-	4,0	-	-
1342	-	-	-	-	3,5+	3,5+	-	-	-
1343	4,0+	-	-	-	-	-	-	-	-
1344	-	-	6,5+	-	-	-	-	-	-
1347	-	-	5,0+	-	-	-	-	-	-
1348	-	-	5,5-	-	-	-	-	-	-
1351	-	7,5+	-	-	-	-	-	5,0-	-
1352	-	5,0+	-	-	-	-	-	-	-
1356	-	-	7,0-	-	-	-	-	-	-
1359	-	-	7,0+	-	-	-	-	-	-
1360	-	-	5,5+	-	-	-	-	-	-
1363	-	-	3,0+	-	-	-	-	-	-
1366	-	-	-	-	-	-	-	5,0-	-
1372	-	-	-	-	-	-	4,0+	-	-
1377	-	-	7,0-	-	-	-	-	-	-
1378	-	-	11,0+	-	3,0-	-	-	-	-
1379	-	8,5+	5,5-	-	-	-	-	-	-
1383	-	-	-	-	-	-	-	-	5,0+
1385	-	-	-	-	-	3,0-	-	-	-
1386	-	-	-	-	6,0-	-	-	-	-
1387	-	-	-	-	-	-	4,0+	3,5+	-
1388	-	5,0-	-	-	-	-	4,5-	-	-
1389	-	-	-	-	-	4,0-	3,5-	-	-
1390	-	-	-	-	-	4,0-	-	-	-
1392	-	-	-	-	5,5+	-	-	-	-
1393	-	4,0-	5,0+	-	-	-	3,5+	-	-
1394	-	7,0+	-	-	-	-	-	5,0-	-
1396	-	-	-	-	-	5,0+	3,0+	-	-
av.	-	6,2	6,0	-	4,5	3,7	3,7	4,6	-

7. A. BALLARD, 459 (calculated on the base of the quantities of sowing-seed mentioned on p. 448)

Manors in Oxfordshire

Year	Combe	Wootton
1305	1,7	2,0
1306	2,2	2,5
1307	3,2	2,4
av.	2,4	2,3

8. J. E. THOROLD ROGERS, I 38-45; II 622-625 (calculated)

Cuxham, Oxon. 1316-7 3,4

Manors	Counties	1333-4	1334-5	1335-6
Maldon	Surrey	4,0	4,3	3,4
Letherhead	Surrey	2,9	3,1	1,7
Farley	Surrey	3,7	5,2	2,5
Elham	Kent	—	2,8	4,4
Cambridge	Camb.	3,9	4,1	4,1
Gamlingay	Camb.	2,4	3,4	2,6
Cheddington	Bucks.	4,3	3,4	3,3
Wolford	Warwick	8,7	9,6	8,7
Cuxham	Oxon.	6,4	5,6	8,9
Holywell	Oxon.	6,9	6,3	3,6
Basingstoke	Hants	2,9	4,0	4,1
av.		4,6	4,7	4,3

9. J. S. DREW, 32, 41 appendix (responsio)

Manors of St. Swithun's priory, Winchester

Hannington	1325	3,0
Thurmond	1325	3,0
Easton	1325	4,0
Michelmersh	1325	4,0
Littleton	1325	4,5
Silkstead	1331-2	5,0
av.		3,9

10. H. P. R. FINBERG, 110 table IX

Ottery, Devon

1342	4,3
1343	5,1

Wheat, 14th century

11. R. LENNARD, 21

Hawsted, Suffolk 1388 4,2

B. FRANCE

1. J. M. RICHARD, 399-400; G. DUBY, (d) 186

Roquetaire, near St. Omer		Gosnay, near Béthune	
1318-9	7,5	1333	11,0-12,0
1319-20	9,7	1334	14,0
1320-1	11,6	1335	15,0
1321-2	8,3	1336	11,0
1322-3	9,3	1339	8,0
1324-5	7,3	1340	16,0
1326-7	7,6	1343	14,0
av.	8,7	av.	12,8

2. R. et L. FOSSIER, 440-442

Manors of the abbey of Notre-Dame-des-Prés de Douai

1329-1380	av. 8,0	max. 15,0	min. 4,0
1329	13,0		
1340-42	4,0		

3. TH. SCLAFERT, (a) 475-487

Provence

Two-course system with fallow

1338	Roquebrune	7,0
	la Roquebillière	4,0
	Gimeaux	5,0
	Marignane	4,0

Two-course system without fallow (or only partly fallow)

1338	Cogolin	4,0
	Vallée de Trets	4,0
	Puimoisson	6,0
	Saint-Pancrace	4,0
	Hyères	4,0
	Grasse	6,0
	Draguignan	6,0

Three-course system (sometimes fallow during two years of the three)

1338	Artuby	4,0
	Penfort	4,0
	Hyères	4,0
	Cavallerie	4,0
	Volx	5,0
	Aubagne	4,0
	Carpessane	4,0

(Continued)

Provence

Broc sur le Var	4,0
Saint-Antonin	4,0
Bras	4,0
le Luc	3,5
Vinon	3,0
Roussillon	5,0
Goult	5,0
Jocas	5,0

4. G. DUBY, (b) 410-412; (c) 18 (the same properties as Sclafert)

1338	Yield ratios	Farms	
higher than	5,0	7	(near Arles and Manosque)
	5,0	24	
	4,0	66	
	3,0	21	
	2,0	5	(in the mountains)

5. O. MARTIN-LORBER, 13

Ouges, near Dijon 1380 10,0 (estimation)

According to G. Duby, (d) 186 in 1381 3,3, but this yield ratio is not mentioned by Mrs. Martin-Lorber.

V. FIFTEENTH CENTURY

A. GREAT BRITAIN

1. W. H. BEVERIDGE, 161 table III B

Manors	Counties	1400-1449
Nailsbourne*	Somerset	4,3
Downton*	Wilts.	3,3
Witney	Oxon.	2,6
Wargrave	Berksh.	3,3
Wycombe	Bucks.	2,5
Ecchinswell*	Hants (N.)	6,1
Overton*	Hants (Mid.)	4,3
Meon*	Hants (S.)	4,7
av. 5 manors(*)		4,5
av. 8 manors		3,9

Wheat, 15th century

2. F. M. PAGE, 330 appendix II

Oakington, near Cambridge

1399-1400	4,0	1404-5	4,0
1400-1	3,0	1405-6	4,0
1401-2	4,3	1406-7	4,6
1402-3	5,2	1407-8	6,1
1403-4	3,8	1408-9	5,6
		av.	4,5

3. J. A. RAFTIS, 174, 178 table XXXVII, yield ratios (responso)

Huntingdonshire

Year	Wistow	Warboys	Holywell
1401	-	-	3,5
1402	-	-	3,0
1403	6,5+	-	-
1404	-	4,5+	4,0-
1405	-	-	3,5-
1409	-	-	1,5-
1413	-	3,5+	-
av.	-	-	3,1

4. H. P. R. FINBERG, 110-111 table IX

Hurdwick, Devon		Werrington, Devon	
1412	4,9	1459	7,7
1413	4,1	1471	5,9
1463	5,3	1498	7,6
1470	3,8	av.	7,1
1489	5,0		
1490	8,0		
1491	6,0		
1497	5,1		
av.	5,3		

5. J. SALTMARSH, 165

Grantchester, near Cambridge

1455-6	3,4	1462-3	3,1
1456-7	4,7	1463-4	4,3
1457-8	2,3	1464-5	2,5
1458-9	3,4	av. 1455-65	3,4

6. J. E. THOROLD ROGERS, IV 39 (calculated on the base of the quantities of sowing-seed mentioned I 50)

Manor of the Canterbury Cathedral

Adisham ca. 1460 6,0

B. FRANCE

1. TH. SCLAFERT, (b) 347

Graissivaudan 15th cent. 4,0 max. 5,0

2. A. PLAISSE, 166, 168-169, tables 35-37 (of dubious value)

Cantaloup, Le Neubourg, Sainte-Vaubourg 1397-1415 av. 3,2

3. PH. WOLFF, 175

Toulouse 1438-9 5,0

C. BELGIUM

1. H. VAN DER WEE

Neighbourhood of Brussels ca. 1400 7,0-9,0

D. THE NETHERLANDS

1. REKENING HERTOGELIJK BOUWHUIS HATTEM (account, calculated)

Hattem, near Zwolle 1418 6,0

VI. SIXTEENTH CENTURY

A. GREAT BRITAIN

1. H. P. R. FINBERG, III table IX.

Hurdwick, Devon

1504	6,3
1508	9,3
1513	6,7
1516	6,3
1537	4,6
av.	6,6

Wheat, 16th century

2. J. CORNWALL, 56

Heighton St. Clair, Sussex 1562 3,0

3. J. E. THOROLD ROGERS, IV 745 (calculated on the base of the quantities of sowing-seed mentioned I 50)

Cuxham, Oxon. 1571-80 8,0

4. J. P. COOPER

Walton, Somerset ca. 1583 8,0 (estimation of expected yield)

B. FRANCE

1. P. RAVEAU, 140

Haut Poitou, 16th century 4,0-5,0

2. P. A. FÉVRIER, 302

Basse Provence

1540	
Apt	3,0-4,0
Forcalquier	3,0-4,0
Grasse	3,0-4,0
Draguignan	3,0-4,0
Taradeau	7,0
Palaison	10,0
Villepey	7,0 (frequently 10,0 and 12,0)
Roquebrune	10,0
Vallée de la Siagne	10,0
Brovès, Var	7,0
Caussols, Alpes Maritimes	5,0
Roque-Esclapon	7,0 (high yield)

C. SPAIN

1. E. GIRALT RAVENTÓS, (b) 11

Catalonia 1533-48 3,0-4,0

D. BELGIUM

1. H. VAN DER WEE

Farm of the Infirmary of the Beguinage at Lier
1586-1602 av. 10,9

E. THE NETHERLANDS

1. B. H. SLICHER VAN BATH, (b) 92

Hitsum, Friesland	
1570-1	17,0
1571-2	7,0
1572-3	7,0
av.	10,3

F. GERMANY

1. D. SAALFELD, 162-163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover			
Wickensen		Wolfenbüttel	
1540-1	3,6	1540-1	6,5
1579-83	4,9	1579-90	6,2
Gandersheim		Lucklum	
1579-83	5,5	1595-99	3,6

2. O. KIUS, 141-143

near Weimar			
1549	3,4	1555	5,4
1551	3,8	1557	3,9
1552	4,9	1558	3,3
1553	5,3	1560	4,8
1554	4,0	1564	5,0
		av.	4,4

3. H. H. WÄCHTER, 112 tables 10 and 11. Calculated on the base of the quantities of sowing-seed mentioned in table 10

East-Prussia. Average during the period 1550-1695

Weeskenhof	5,0
Behlenhof	3,3
Schaaken	3,1

4. A. BACKHAUS, 204

Schmatzfeld, near Wernigerode, Harz 1552-7 3,5

Wheat, 16th century

5. O. BÖHME, 92

Ostra, near Dresden 1571 7,8

6. H. WISWE, 113

Wobeck, Lower Saxony 1580-1 4,5

G. POLAND

1. A. WAWRZYŃCZYKOWA, (a) 99-124 tables 1-13

Estates of the Cracow Chapter in the voivodship of Sieradz

Estates	1552	'53	'54	'64	'65	'66	'67	'68	'69	'73	av.
Pabianice	2,2	2,8	2,9	2,8	-	-	-	-	8,0	-	3,7
Świątniki	2,4	7,7	3,0	-	-	-	5,0	-	-	-	4,5
Dobroń	-	-	-	3,0	-	3,0	7,0	6,6	7,7	7,1	5,7
Rzgów-											
Gospodarz	8,7	4,0	5,8	3,8	2,2	3,0	10,2	2,5	2,7	3,3	4,6
Górka Wielka	2,0	2,1	1,9	-	2,5	3,0	3,0	-	-	5,8	2,9
Wisłitno	6,0	2,5	7,1	2,8	2,1	7,8	11,3	5,7	6,5	8,3	6,0
Kurowice	-	1,6	2,0	-	-	-	8,0	3,8	-	-	3,8
Brojce	6,0	2,7	7,0	2,4	3,8	-	8,0	-	3,4	-	4,8
Dłutów	2,1	10,7	5,1	0,9	3,7	2,7	4,0	3,4	6,1	3,8	4,2
Average of these nine estates	-	-	-	2,5	2,9	3,5	8,4	3,7	5,0	4,9	-
Górka Mała lub Siekielów	2,9	2,7	12,1	0,6	-	-	1,5	-	-	2,9	3,8
Leszczyny	-	-	-	4,0	-	4,0	1,5	2,7	7,5	3,4	3,8

2. A. WYCZANSKI, 587

Estates in the Palatinate of Lublin 1563-4 5,0
 Estates in the Palatinate of Mazowsze 1563-4 6,7
 Villages of the town of Poznań end 16th c. 5,2

Id., 589 (calculated)

Estate of Korczyn 1564 4,9
 1569 4,3

3. W. PRANDOTA, 164-178, 184 tables 3-9, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1564	1570
Guzów	9,0	9,6
Kaski	9,2	8,3
Korabiewice	5,1	3,8
Czerwonka	7,8	8,1
Wola Szydłowiecka	8,3	7,5
Orzyszew	11,0	-
Duchy of Oświęcim	7,0	-

4. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?) av.	
Stodoły	5,3	—	7,3	6,0	2,1	5,3	—	2,1	4,7
Sobótka	6,2	—	6,2	—	—	—	—	—	—
Makoszyn	5,0	—	4,5	4,5	4,5	5,4	—	—	4,8
Samborzec	7,9	—	5,2	5,2	8,7	4,3	4,7	3,3	5,7
Nisko	3,0	—	3,8	3,8	2,2	4,1	1,3	3,5	3,1
Góra	6,0	—	5,6	—	—	—	—	—	—
Strzegocice	9,1	—	7,1	—	—	—	—	—	—
Plawo	4,3	—	3,3	4,5	1,8	4,4	2,4	4,0	3,5
Tuszów	3,2	—	2,0	6,0	1,0	—	2,5	—	2,9
Pońaniec	5,0	—	—	—	—	—	—	—	—
Strzegom	4,4	—	8,6	12,3	7,8	1,5	—	—	6,9
Osiek	6,1	—	5,0	5,0	2,6	3,3	1,7	5,4	4,2
Bukowa	4,1	—	2,5	2,5	—	—	1,6	—	2,7
Czajków	2,6	—	4,0	4,0	—	—	—	—	3,5
Bugocice	6,9	—	3,9	—	—	—	—	—	—
Skotniki	4,6	—	4,6	—	—	—	—	—	—
Zagość	4,0	—	4,0	—	—	—	—	—	—
Konieczmosty	4,0	—	4,0	—	—	—	—	—	—
Strożyska	4,7	—	4,7	—	—	—	—	—	—
Kocina	3,5	—	3,5	—	—	—	—	—	—
Winiary	5,9	—	5,9	—	—	—	—	—	—
Mędrzechów	4,5	—	4,5	—	—	—	—	—	—
Gołębiów	4,4	—	—	—	—	—	—	—	—
Zwoleń	{ 3,3 2,8	{ 5,0 7,5	{ 4,7 9,0	{ — —	{ — —	{ — —	{ — —	{ — —	{ — 5,0
Tczów	{ 8,3 4,4	{ 7,8 5,9	{ 6,4 4,3	{ — —	{ — —	{ — —	{ — —	{ — —	{ — 6,2
Maków	{ 6,5 —	{ 4,9 1,8	{ 5,6 4,0	{ — —	{ — —	{ — —	{ — —	{ — —	{ — 4,6
Makowiec	{ 3,6 —	{ 4,8 5,6	{ 3,3 —	{ — —	{ — —	{ — —	{ — —	{ — —	{ — 4,3
Brzoza	4,0	4,8	3,8	—	—	—	—	—	4,2
Jedlnia	3,5	3,2	3,0	—	—	—	—	—	3,2
Klwatka	3,0	4,9	4,5	—	—	—	—	—	4,1
Kozienice	5,0	—	—	—	—	—	—	—	—
Goląb	5,0	—	5,0	—	—	—	—	—	—
Drugnia	9,5	—	5,0	—	—	—	—	—	—
Brzeziny	2,7	—	2,7	—	—	—	—	—	—
Gacki	2,5	—	2,5	—	—	—	—	—	—
Average of 45 estates	5,1	—	4,6	—	—	—	—	—	—

Wheat, 16th century

5. S. ŚRENIOWSKI, 110-111

Knyszyn	1561	1,5-2,0 3,0-4,0 3,5
	av.	2,8
Zator-Oświęcim	1564	7,0 8,0 9,0
	av.	8,0

6. J. LESKIEWICZOWA, 19 table 2

Estates near Osieck

1564	
Osieck	6,1
Żelazna	11,1
Wola Starogrodzka	6,0
Chrosna	5,7

7. A. MĄCZAK, 99

Laski	1586-8	4,5
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8. J. OCHMAŃSKI, 388 table 3

Estates near Kobryn spring-wheat

1597	
Czerewaczycki	
estates	0,3
Wieżecki estates	1,5
Prużański estates	1,0

9. A. WAWRZYŃCZYK, (c) 84 table XII

Peasant exploitation of royal estates in Masovia

16th cent.	10,5
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H. LATVIA

1. V. V. DOROŠENKO, 72-73

Riga	1548	0,8
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2. A. SOOM, (a) 40

Berson	1582-92	5,5
Kalzenau	1582-7	5,3

I. RUSSIA

1. K. N. ŠČEPETOV, 129–130 table 6

Estates of the Iosifo-monastery at Volokolamsk in a region north of Moscow, 1592

Starca Makarija Rževskogo		Starca Vas'jana Temkina	
Ivanovskoe	0,7	Uspenskoe	0,7
Spasskoe	1,0	Balabanovo	1,0
Sudnikovo	2,3	Ragušino	0,7
Kur'janovo	0,7	Belkovo	0,8
Gavrino	0,5	Lestvicyno	1,0
Zubovo	1,5	Vorsino	1,5
Safatovo	2,0	Šestakovo	24,0 (small area)
Rakitino	1,0	Kondratovo	1,2
		Ievlevo	2,0
Starca Jakoba Sokolova		Starca Nifonta Golodnogo	
Lukovnikovo	0,7	Očiščevo	0,9
Neverovo	1,2	Krjukovo	0,7
Koz'modem'janskoe	0,7	Bujgorod	0,7
Faustova Gora	0,7	Bykovo	0,5
Starca Antonija Akulova		Il'icyno	1,1
Balaškovo	1,2	Novoe	0,7
Ramenka	1,2	Oboburovo	2,7
Tryznovo	1,0	Vejny	1,8
Elinarchovo	0,7		
Turovo	1,7		
Starca Feodosija			
Bužarovo	0,7		
Molečkino	1,0		
Retkino	2,5		
Gorbovo	0,8		
Savel'ev	1,0		
Mamošino	0,4		
Beli	2,5		
Angelovo	1,7		

VII. SEVENTEENTH CENTURY

A. GREAT BRITAIN

1. J. P. COOPER

Nibley, Gloucestershire		Arbury, Warwickshire	
1604	5,0	1607	8,0
1605	6,0		
1607	3,9	Kampsford, Gloucestershire	
1609	5,9	1618	5,4
1614	4,0	1627	4,5
1617	3,7	1630	3,3
av.	4,7	1631	3,0
		av.	4,0

Wheat, 17th century

2. G. E. FUSSELL, (a) p. XVII table III; B. H. SLICHER VAN BATH
(c) 94

Harwell, Berksh.	
1612	7,9
1613	5,5
1614	13,0
1615	7,2
1616	20,2
1617	8,3
1618	13,4
1619	14,1
1620	14,6
av.	11,6

3. J. E. THOROLD ROGERS, V 58
England ca. 1655 6,0-8,0

B. FRANCE

1. P. GOUBERT, (a) 102, 103

Saint-Just-des-Marais, Beauvaisis	1672	5,5
Froissy-la-Ville,	—	1676 6,0
Thieux,	—	1677 5,0

Average in France, according to Sébastien Le Prestre, sieur de Vauban,
end of the seventeenth century

on poor soils	4,5
on good soils	5,5
on very rich soils	10,0-15,0

2. E. APPOLIS, 400

Lodève	1674	wheat	5,0
		touzelle	5,0

3. O. MARTIN-LORBER, 13 (calculated)

Ouges, near Dijon	17th cent.	8,0 on good soil
		3,0 on moderate soil

C. THE NETHERLANDS

1. J. A. FABER, p. XXIV-XXV (calculated)

Het Bildt, Friesland	
1604	14,1
1608	4,8
1617	6,4
av.	8,4

D. GERMANY

1. H. WIEMANN, 47

Barthe, near Leer, Ostfriesland

1602	1,0	spring-wheat
1603	4,0	spring-wheat

2. D. SAALFELD, 162-163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover

Bahrdorf		Gandersheim		Wickensen	
1608-28	2,9	1602-9	4,5	1613-23	2,9
1637-48	1,4	1619-39	5,1	1634-44	2,7
1684	2,7	1649-59	7,1	1653-5	5,2
av.	2,5	av.	5,6	1663-4	3,2
				av.	3,5

Wolfenbüttel		Lucklum	
1600-11	5,3	1600-6	2,6
1620-31	5,6	1612-22	3,9
1650-61	6,5	1631-40	5,2
1670-82	6,2	1644-59	2,9
av.	5,9	1660-6	4,8
		1669-70	3,4
		av.	3,8

3. H. WISWE, 113

Estates in Lower Saxony

Mariental	1601-2	2,5
Walkenried	1605-6	4,0
Hackenstedt	1683	3,5

4. G. HANSSSEN, 403-404, 413-414, 478

Estates in Schleswig-Holstein

Rundhof	1610	3,7	Koselau	1633-4	6,9
	1690	2,4		1634-5	6,2

Wheat, 17th century

5. O. BÖHME, 92

Estates near Dresden

Lohmen		Gorbitz		Ostra	
1631-3	4,3	1651	6,8	1694-9	6,0
1642-7	3,4	1652	3,8		
1680	9,0	1653	2,9		
av.	5,6	1663	4,1		
		1673	3,8		
		1683	3,6		
		1693	3,6		
		av.	4,1		

6. W. ACHILLES, 155. Calculated on the base of the money-value of the sowing-seed and the yield

Hedeper, near Wolfenbüttel 1632-90 5,7

7. W. KOPPE, 22 table IV

Estates near Oldenburg in Holstein

Year	Cismar	Körnick
1635	4,7	-
1636	5,4	-
1637	4,0	-
1638	5,2	-
1639	7,4	-
1640	2,5	-
1641	8,9	4,5
1642	6,2	7,6
1643	5,6	-
1644	5,2	-
1647	2,9	-
1648	4,7	3,8
1649	3,4	3,6
1650	4,9	3,5
1651	-	4,0
1652	5,2	5,8
1653	9,9	7,5
av.	5,4	5,0

8. A. BACKHAUS, 205

Schmatzfeld, near Wernigerode, Harz 1670 4,4

E. DENMARK

1. H. H. FUSSING, (a) 104

Eskildsø, Zealand 1633-4 0,5

F. CZECHO-SLOVAKIA

1. F. LOM, 169 table III

Estates in Bohemia			
Krumlov		Lovosice	
1651-1700	3,4	1666-1700	4,1

G. POLAND

1. W. PRANDOTA, 164-177, 184 tables 3-8, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1603	1620	1630	1661	av.
Guzów	5,4	6,4	7,8	3,3	5,6
Kaski	2,2	4,4	5,2	4,0	4,0
Korabiewice	4,3	10,0	11,0	2,0	6,8
Czerwonka	-	10,0	8,7	4,0	7,6
Duchy of Oświęcim	1616	7,0			
	1660	1,5			

2. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1602	1611	1615	1615	1611-5	av.
Stodoły	2,8	-	-	-	3,5	-
Sobótka	-	-	5,6	-	-	-
Makoszyn	5,0	-	-	-	7,1	-
Samorzec	4,3	-	-	-	5,7	-
Nisko	3,8	3,4	3,6	2,5	-	3,3
Góra	-	-	3,9	-	-	-
Strzegocice	-	-	4,4	-	-	-
Pławo	3,4	-	-	-	3,8	-
Tuszów	-	-	-	-	3,2	-
Osiek	3,0	-	-	-	2,9	-
Czajków	-	-	-	-	2,5	-
	-	-	-	-	2,0	-
Bugocice	-	-	4,2	-	-	-
Skotniki	-	-	3,0	-	-	-
Zagość	4,5	-	3,3	-	-	-
Konieczmosty	-	-	3,9	-	-	-
Strożyska	-	-	3,3	-	-	-
Kocina	-	-	4,3	-	-	-
Winiary	-	-	3,2	-	-	-

Wheat, 17th century

(Continued)

Estates	1602	1611	1615	1615	1611-5	av.
Mędrzechów	-	-	3,6	-	-	-
Cołębiów	-	-	5,2	5,0	-	-
Zwoleń	-	-	6,4	2,4	-	-
Tczów	-	-	5,7	-	-	-
Maków ¹⁾	-	-	15,4	17,3	-	-
Makowiec	-	-	2,8	-	-	-
Brzoza	-	-	5,4	4,0	-	-
Jedlnia (1602-15)	-	-	-	-	3,2	-
Gzowice	-	-	3,0	-	-	-
Klwatka	-	-	5,4	-	-	-
Wacyń	-	-	5,3	-	-	-
Mironice i Bielany	-	-	2,2	-	-	-
Kozienice	2,2	-	2,5	-	-	-
Gołąb	-	-	3,6	-	-	-
Stare Chęciny	-	-	6,2	-	-	-
Drugnia	5,0	-	14,4	-	-	-
Brzeziny	-	-	2,8	-	-	-
Gacki	-	-	1,9	-	-	-
Average of 45 estates	-	-	3,8	-	-	-

¹⁾ Of dubious value

3. A. WYCZANSKI, 589 (calculated)

Estate of Korczyn	
1615	3,7
1660	3,2

4. J. OCHMAŃSKI, 389 table 5

Estates near Kobryn	Spring-wheat
Czerewaczycki estates	1617 2,5

5. S. ŚRENIOWSKI, 114

According to J. HAUR, *Oekonomika ziemiańska generalna*, 1675; and J. HAUR, *Skład sekretów gospodarskich*, 1693

1675	1,7	1693	1,4-2,0
	2,0		
	2,5		
av.	2,1		

H. ESTONIA

1. A. SOOM, (b) 77 n. 67

Estates on the isle of Ösel	1654	4,7
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2. O. LIIV, 162-165

Estates in Estonia

Year	Haiba, Hageri	Lihula
1681	3,5	4,9
1682	4,0	4,6
1683	3,5	6,3
1684	1,3	5,7
1685	2,3	6,0
av.	2,9	5,5

I. RUSSIA

1. F. I. REZNIKOV, 95-96 table 5

Villages of the cloister of Troice-Gledenenskij on the Lower Dvina

1678	1,0-10,0
1682	2,0- 3,0

2. OČERKI ISTORII SSSR., VI (1955) 42-43

District of Tot'ma ab. 1675 4,0-4,5

VIII. EIGHTEENTH CENTURY

A. GREAT BRITAIN

1. A. YOUNG, (a) 53, 61, 65-66, 98, 117, 125, 156, 168, 177-178, 180, 185, 202, 208

1768

Bury	10,0	Bruchalk-Romsey	6,9- 8,0
Henningham	14,0	Aylesford-Alton	5,3
Braintree-Chelmsford	4,0- 6,9	Alton-Farnham	8,0-13,3
Woodstock-Witney	5,3- 6,7	Gilford-Ripley	9,6
Lanvachers-Newport	7,5-10,0	Ilford	14,0
Bridgend-Bristol	8,3-10,0	Ingateson-Chelmsford	10,0
Devizes-Salisbury	6,7		

2. A. YOUNG, (b) IV 230-234

1770

Hatfield-Welwyn	10,0	Schorton	10,0
Stevenage	9,2	Gilling, Richmond	10,0
Stevenage-Luton	6,0	Rookby	6,4
Houghton, Dunstable	7,5	Kiplin	10,5
Milton, Dunstable	10,0	Mr. Crowe	16,0
Pagnel, Wooburn	12,0	Swinton	8,0
Broughton	12,5	Craickhill	8,0
Astwick, Newport	6,0	Sleningford	7,5
Biddenham	11,0	Danby	8,8
St. Neot's-Kimbolton	7,5	Raby-castle	12,5
Kimbolton-Thrapston	12,0	Earl of Darlington	16,5
Casterton	8,0	Morpeth	8,0
Stamford-Grimsthorp	5,0	Alnwick	5,6
Grantham-Newark	13,5	Belford	7,0
Bawtrey-Doncaster	5,3	Hetton	5,0
Doncaster-Rotherham	6,7	Fenton	8,0
Ecclesfield, Sheffield	8,0	Rothbury	9,0
Woolley	11,0	Cambo	8,0
Leeds-Tadcaster	6,3	Glenwelt	10,0
Wilbersfort, York	12,0	Ascot, Carlisle	6,7
Hatton, York	8,5	Penrith	12,0
Risby	10,5	Keswick	14,8
Stillingfleet	8,0	Shapp	10,0
Holderness	16,0	Holme, Burton	6,5
Howden	12,0	Kabers	7,4
Thorne	8,0	Garslang	11,7
Marquis of Rockingham's		Ormskirk	18,0
Kentish farm	12,8	Altringham	15,0
id. Hertfordshire	7,2	Shenston, Litchfield	12,5
Wentworth	10,8	Aston, Birmingham	9,6
Driffield	12,0	Hagley	14,0
Brumpton	10,0	Bensington	14,0
Yeddingham	11,2	North Mims	8,0
East Newton	8,0		
Nunnington	6,4		
Kirkleatham	12,5		
Gilsdale	10,0		
Mr. Turner	20,0		

3. A. YOUNG, (c) IV 243-245

1771

Hempstead	8,3	Flegg	9,3
Tring	10,0	Bramford	13,0
Blisworth	8,0	Hastead	10,0
Hazelbeech	4,4	Colchester	11,2
Glendon	6,0	Youngsberry	8,9
Mr. Booth, Glendon	6,8	Mr. Arbuthnot (drilled)	6,6
Quenby	12,0	Beaksburn	10,2

(Continued)

1771

Dishley	14,0	Thanet (drilled)	11,2
Radburn	11,5	Hawkhurst	6,0
Tiddswell	8,3	Sheffield Place	8,0
Chesterfield	10,4	Walberton	10,7
Lawton	7,2	Mr. Turner	14,0
Gateford	8,8	Isle of Wight	8,9
Blythe	8,0	Isle of Wight	8,0
Wombwell, Swaith	8,8	Alresford	4,6
Canwick	9,2	Gilbury	7,3
Leverington	14,0	Critchill	6,3
Runcton, Lynn	6,7	Moreton	6,0
Snettisham	8,0	Came	5,7
Warham	7,4	Taunton	8,9
Aylsham	10,4	Donnington	10,7
Earlham	6,7	Harleyford	8,0
Bracon Ash	11,2	Beconsfield	7,1

4. G. E. FUSSELL, (b) 164

Leicestershire 1771 12,0

5. A. YOUNG, (i) 231, 234-235. (Calculated on the base of a quantity of 4 bushels per acre sowing-seed)

Farm of Mr. Ellman at Glynd, Sussex

1771	6,7	1777	7,0	1783	7,1
1772	5,0	1778	8,7	1784	8,1
1773	7,2	1779	6,2	1785	8,1
1774	7,0	1780	7,1	1786	6,4
1775	7,2	1781	7,1	1787	8,0
1776	7,1	1782	7,5	av.	7,1

6. A. YOUNG, (g) 148 (calculated)

Wokingham, near Reading 1786 8,9-10,0

7. A. YOUNG, (h) 33 (calculated)

Slabbard, near Narbarth 1787 7,0 some farms 12,0

8. W. MARSHALL, (a) I 117-129; II 52-56

Vale of Gloucester 1789 6,0-9,0 sometimes 4,0

Cotswold Hills 1789 6,0-10,0

9. TH. CARR, 31 (calculated)

Bedingham, near Lewes, Sussex 1789 13,0-19,5

10. W. MARSHALL, (b) I 187

Midland Counties 1796 8,0 sometimes 10,7 and 13,3

Wheat, 18th century

11. W. MARSHALL, (c) I 189

West Devonshire 1796 8,0-10,0

12. A. YOUNG, (j) 45, 53 (calculated)

Suffolk 1797 6,0 (on poor sand)
14,0 (on rich and strong loams)
16,0-20,0 (on the finest soils)
11,0 (medium of seven years)

13. W. MARSHALL, (e) I 119-122

Maidstone 1798 av. 8,0 min. 6,0 max. 19,2

14. A. YOUNG, (k) 125, 117-118

1799

Holland Fen	12,8	Dalby	6,9
Folkingham	9,3	Spilsby	9,1
Belton	6,7	Skirbeck	10,4
Hackthorne	8,0	Reevesby	5,7
Norton	7,3	Mr. Parkinson, Asgarby	12,0
Knaith	9,6	Ranby	8,0
Haxey	12,4	Mr. Elmhurst, Hazlethorpe	10,0
Normanby	9,6	Swinop	6,9
Barton	9,1	Mr. Ellison, Sudbrook	9,6
Barrow	8,0	Claypool	10,0
Wintringham	13,3	Woolsthorpe	11,2
Brocklesby	5,3	Grimsthorpe	11,6
Humberston	9,6	Mr. Hoyte, Osbornby	10,7

15. C. S. DAVIES, 128-129

Cheshire 1750-1800 6,0-15,0

B. IRELAND

1. A. YOUNG, (d) 12-13, 19, 23, 44, 54, 59, 68, 80, 83, 87, 183, 238, 349, 362

1776-8

Cellbridge	7,0	Mount Kennedy	8,0
Dollestown	9,3	Strokestown	10,7-16,0
Slaine	6,0-7,0	Drummoland	10,7-16,0
Packenham	7,0	id., poor soil	6,7-12,0
Charleville	4,0-9,3	Gloster	5,0- 6,5
Shaen castle	5,5	Derry	8,0
Kilfaine	6,0		
Bargie and Forth	13,3-26,6		
Courtown	7,0		

C. FRANCE

1. G. LIZERAND, 174-175

Evry, Sens	18th c.	5,0
Malery, Sens	18th c.	3,0

2. P. GOUBERT, (a) 101-103, 150

Estimation of yields in some villages in the districts of Soissons and Amiens

1716	Quality of the soils		
	rich	moderate	poor
Clermont	8,3	5,0	3,0
Doullens	10,0	—	—
Saint-Quentin	10,0-11,0	6,0-7,0	—
Arras	8,0	6,0	4,0
Aire	11,0	—	—
Bapaume	12,0	6,0	4,0
Béthune	14,0-16,0	7,0-8,0	3,0-4,0
Soissons	9,0	6,0	4,0
Vervins	8,0	—	4,0
Chauny	9,0-10,0	7,0	4,0
Guise	10,0-12,0	8,0-9,0	—
La Fère	10,0	7,0	4,0
Ribemont	6,0	—	3,0
Château-Thierry	7,5	—	4,0

The quality of the soil is not mentioned in the following villages:

Péronne	7,0-8,0
Coucy	6,4
Marle	6,6
Vailly	3,0-6,0
Fère-en-Tardenois	5,0
Aubenton	2,0-4,0
La Ferté-Milon	5,0
Neuilly-Saint-Front	4,5
Clermont	1765 13,0 (high yield)
Marle	1789 8,0

According to the „Bureau d'agriculture de Beauvais”

1761 av. 6,0 sometimes 8,0-9,0

3. F. GAY, 407

Farm of the abbey of Fontmorigny, dép. du Cher

1728-9	3,1	1736-7	2,9
1729-30	3,9	1737-8	2,8
1730-1	4,8	1738-9	2,3
1731-2	1,8	1740-1	1,8
1732-3	4,3	1741-2	0,8
1733-4	5,3	1742-3	11,0
1734-5	3,0	1743-4	2,7
1735-6	3,1	1744-5	2,3
		av.	3,6

Wheat, 18th century

4. E. MIREAUX, 322-331 appendix IV (calculated)

Noisy-le Grand, Brie 1732-5 4,8

5. E. APPOLIS, 400-401

Lodève	1747	4,0 (high yield)
Larzac	ca. 1750	3,0-3,5
Saint-Jean de la Blaquière	1758	4,0

6. R. LAFARGE, 74

Brive	1750-80	4,0
Angoulême	1750-80	3,0

7. C.-E. LABROUSSE, 390 n. 13

Berry	ca. 1750	8,0 (on good soil)
Poitou	ca. 1750	9,0 (on good soil)
According to Quesnay and de Calonne		10,0

8. H. L. DUHAMEL DU MONCEAU, I 292 ; VI 106, 108-109, 122-123, 130-131 (calculated)

Pethiviers, Gâtinois ca. 1750 5,0

Fontclaire, Comtat Venaissin

1677-1756	3,3
1757	5,7
1758	4,1 (on good soil)
	2,0 (on moderate soil)
1759	4,6

9. O. FESTY, (a) 37 n. 6

Montferme, Ain	1793	3,0
Quillan, Aude	1793	4,0
Ussel, Corrèze	1793	5,0 (high yield)
Marvejols, Lozère	1793	3,0
Mende	1793	4,0 (max.)
Chambéry	1793	4,0 (av.)
Mâcon	1793	2,5-3,0
Varenne-Fenille	1793	5,0
Annecy	1794	2,0-3,0
dép. du Gers	1794	4,0
dép. de la Nièvre	1794	4,0
le Gatinais	1762	4,0-5,0 (on good soil)
le Boulonnais	1785	2,0-3,0
Allier	1785	4,0

10. CH. LECLERC DE MONTLINOT, 185 (calculated)

near Lille 1776 9,0

11. H. SEE, 385-387

Bretagne	1776-8	6,0
départ. Quimper	1776	5,0
départ. Vitré	1776	6,0
départ. Hennebont	1776	10,0
Rennes	1788	3,2

12. A. PLAISSE, 569 (estimation)

le Neubourg	1778-9	6,0 (2×)
		5,0
		3,0 (4×)
av.		4,1

13. A. YOUNG, (f) II 556-601

 1787-1789

Argentan, arr. de l'Orne	10,0	
Aiguillon, arr. d'Agen	20,0	
La Mothe - Landerron	16,0-20,0	
Langon, arr. de Bazas	20,0	
Cubzac, arr. de Bordeaux	10,7	
Strasbourg	12,0	
Clermont	7,0-10,0	
Issoire	8,0	
Angers - La Meignanne	6,0	
Villeneuve-de-Berg, Ardèche	4,0	
Montélimar	8,0	
Avignon	8,0-12,0	
Tour d'Aigues, Vaucluse	5,0	4,0-8,0
Lyon	4,0	
Bresse	5,0	
Metz	4,0- 5,0	3,5-5,5
Belfort	3,2- 4,0	
Verteuil, Charente	4,0- 5,0	
Champagne	4,0	
Vatan, Indre	5,0- 6,0	
Argenton, Indre	5,0- 6,0	
Limoges	4,5 (max).	
Limoges - Saint-Georges	5,0	

The whole country:

Loam districts	8,0
Heath districts	6,0
Mountain districts	5,0
Stone districts	4,0
Gravel districts	5,0
Various soils	5,0
According to the abbot Raynal for the whole of France no more than	4,5

Wheat, 18th century

D. SPAIN

1. E. GIRALT RAVENTÓS, (a) 573

Penedès, Catalonia ca. 1780 av. 5,0
16,0-18,0 (under special good conditions)

2. J. VICENS VIVES, 456

Spain 18th century av. 3,0
4,0 (high yield)
6,0-7,0 (extraordinary)

E. ITALY

1. A. YOUNG, (e) II 157-217

1787-1789

Villamagna, Lombardy	8,0- 9,0	
Tuscany	9,0-10,0	(after beans)
	6,0- 7,0	
	3,0- 4,0	
Milan-Pavia	7,0- 8,0	
Chentale, Piedmont	6,0	sometimes 10,0-11,0
Savigliano, Piedmont	8,0	
Turin	5,0	
Codogne, Milanese	6,0	
Vicenza	5,0- 6,0	
	6,0- 6,7	
Padua	12,0	(on good soil)
	6,0	(on moderate soil)
Bologna	5,0	(average)
	3,0	(poor soil)
	12,0-16,0	(on hemp-land)
	20,0	(very high yield)
Florence, in the plains	8,0	
near the rivers	12,0-15,0	sometimes 20,0
in the whole duchy	5,0- 6,0	(average)
Parma	4,0- 5,0	
Northern Italy	5,0- 7,5	(average)

According to CANTINI, *Istruzioni pratiche intorno al agricoltura*, 1788, 16:

with plough	4,0- 6,0
with spade	12,0-16,0

F. THE NETHERLANDS

1. FÖEKE SJOERDS, 157

Friesland 1765 15,0-20,0 (high yields on rich soils)

2. J. M. G. VAN DER POEL, (b) 96, 100 (calculated)

Friesland 1779 20,0-28,0 (high yields on rich soils)

G. SWITZERLAND

1. H. L. DUHAMEL DU MONCEAU, IV 385, 388

Near Geneva	
1714-54	3,0
1754	2,6 (2×)
	2,7
	3,0
	3,1 (2×)
	3,4
	3,5
	3,8
	4,6 (2×)
	5,0
	5,5
av.	3,5

H. GERMANY

1. J. HEISIG, 113, 117 (calculated)

Estates in Silesia			
Giersdorf		Kynast	
1699-1700	1,9	1761-70	3,1
1751-60	2,8		

2. G. HANSSSEN, 413

Estates in Schleswig-Holstein	
Rundhof	
1712	5,0
1735	8,5
1746	6,0
av.	6,5

3. O. BÖHME, 92

Estates near Dresden					
Ostra		Gorbitz		Lohmen	
1720	6,3	1791	6,0	1777-9	4,5
1730	9,5			1789	1,9
1750	6,5			1799	4,0
1760	8,5			av.	3,5
av.	7,7				

4. E. WASCHINSKI, I 91-93; II 126-129, 142-143

Estates in Schleswig-Holstein

Year	Oppendorf	Schönhorst	Bürau
1726-7	--	5,3	--
1728-9	--	--	5,6
1729-30	--	--	10,9
1730-1	--	--	4,4
1731-2	--	--	9,5
1732-3	6,7	--	7,2
1733-4	--	--	6,7
1734-5	--	--	6,4
1735-6	--	8,5	5,6
1736-7	10,3	--	7,7
1737-8	8,1	5,4	12,0
1738-9	7,8	5,9	8,0
1739-40	4,6	5,6	7,1
1740-1	8,1	--	--
1741-2	--	5,5	--
1742-3	6,6	4,3	9,0
1743-4	6,7	--	9,0
1745-6	--	--	7,2
1746-7	--	--	7,5
1747-8	--	--	9,5
1748-9	--	--	7,6
1749-50	7,0	--	10,5
1750-1	7,0	5,2	7,5
1751-2	7,5	--	7,5
1752-3	4,5	--	7,2
1754-5	6,0	--	--
1757-8	--	--	9,9
1769-70	--	--	9,0
av.	7,0	5,7	8,0

5. D. SAALFELD, 94, 163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover

Lucklum

1734-9	4,7
1740-5	3,9
1764-5	5,0
1783-8	5,9
1789-94	5,5
1795-1800	6,1
av.	5,2

Yields of some other estates

Waake, near Göttingen		Altenrode/Drübeck, near Wernigerode	
1751-80	3,5	1761-90	4,1
1781-1810	3,8	1791-1810	5,4

6. P. VON HEDEMANN, 183

Hemmelmarck, near Eckernförde, Schleswig-Holstein

1738-52	5,0-7,0	sometimes	3,0
			10,0

7. W. BOELCKE, 142-143

Estates in Upper-Lusatia

1766	
Drauschkowitz	3,8
Gaussig	3,3
Diehmen	4,9
Medewitz	4,5

8. G. LANGE, 49

Bersdorf, Silesia

1770-80	5,6
1780-90	6,2
1790-1800	6,4
av.	6,1

9. C. G. ANTON, 192

Oberneundorf, near Görlitz, Lusatia 1787 6,0-10,0

10. J. N. VON SCHWERZ, (d) I 288

Near Dortmund 1788-1818 13,7

11. FR. ARENDS, II 169

Larrelter Kolk, near Emden 1795 13,1

I. CZECHO-SLOVAKIA

1. F. LOM, 169 table III

Estates in Bohemia

Krumlov		Lovosice		Třeboň	
1701-50	3,3	1701-50	3,8	1726-50	3,5
1751-1800	3,9	1751-1800	5,2	1751-1800	4,1

J. POLAND

1. A. WYCZANSKI, 589 (calculated)

Estate of Korczyn

1765	3,2
1789	3,9

K. LATVIA

1. E. DUNSDORFS, 189 (calculated)

Vidzeme (N.W. Latvia) 1786 4,0 (estimation of total produce)

L. ESTONIA

1. O. LIIV, 160

Estonia 1750-99 av. 5,0-7,0

M. RUSSIA

1. F. I. REZNIKOV, 95-96

Villages on the Lower Dvina in the district of Velikij Ustjug
(Morozovica, Straškovo and Korjakina)

1710 2,0-7,0

Villages of the cloister of Troïce-Gledenskij

1710 4,2

2. J. BLUM, 5

Russia 1759-86 3,0-5,0

3. A. M. RAZGON, 233

Demesne Ivanov, Vladimir 1782 1,5

IX. NINETEENTH CENTURY (-1820)

A. GREAT BRITAIN

1. A. YOUNG (1) 85-86, 92-93 (calculated)

1808

Worth	4,0-4,8	Slingfold	7,3- 8,8
Slaugham	4,0-4,8	Cowfold	7,3- 8,8
Horsham	4,7-5,6	Shermanbury	7,3- 8,8
Rusper	4,7-5,6	Henfold	7,3- 8,8
Balcomb	4,7-5,6	Salehurst	8,0- 9,6

(Continued)

1808

Lower Beeding	5,3-6,4	West Grinstead	8,0- 9,6
Crawley	5,3-6,4	Ashurst	8,0- 9,6
Nuthurst	5,3-6,4	Pulborough	8,0- 9,6
Rudgwick ¹⁾	6,0-7,2	Chiltington	8,0- 9,6
Billinghurst ¹⁾	6,0-7,2	Shipley	8,0- 9,6
Kindford ¹⁾	6,0-7,2	Husterpoint	10,7-12,8
Wisperer-green ¹⁾	6,0-7,2	Albourne	10,7-12,8
Hitchingfield ¹⁾	6,0-7,2	Ditchling	10,7-12,8
Bolney	6,7-8,0	Haylsham	10,7-12,8
Cuckfield	6,7-8,0	Ashburnham	10,7-12,8
Luggershall	7,3-8,8	Winchilsea	10,7-12,8
Warneham	7,3-8,8	Westham	10,7-12,8
		av.	7,2- 8,6

¹⁾ In the text: produce 16 bushels per acre, probably should be 18 b.

On very fertile land	11,3-13,3
Sir Richard Hotham, Felpham	17,3
Winchilsea, good soil	16,0
Earl of Egremont, Petworth	9,3-12,0 (on strong clay loam)

Mr. Carr, Bedingham, succession
of wheat on the same land, without
manuring

first year	18,7
second year	18,7
third year	16,0
fourth year	13,3
fifth year	13,3
sixth year	13,3

B. FRANCE

1. O. FESTY, (b) 80-82

Dép.		Soils		
		rich	moderate	poor
Gers	1804 4,0			
Sarthe	1800 3,2-5,5	15,0-20,0 (excessive)	5,0-6,0 6,0-9,0	
Eure	1805	9,0-11,0		4,0-6,0
Allier	1802 6,0-7,0			
Meuse	1804 8,0-9,0			3,0-4,0
Aube	1804	8,0-10,0	5,0-6,0	

Wheat, 19th century

2. STATISTIQUE AGRICOLE, 58, 140, 172-173, 178, 197, 212, 223-224, 229, 238, 243, 252, 309, 366-367, 385, 389, 394, 400-401, 432, 479, 505, 517, 569, 573

Arr.		Yields			
		average	high	moderate	low
Briançon	1812	4,0			
Lisieux	1812	7,0	8,7		5,3
Châtillon-sur-Seine	1812	3,6			
Dinan	1812		15,0	6,0	4,0
Montélimar	1812	4,0			
Nyons	1812	6,0			
Valence	1812	6,0			
Chartres	1812		9,0-10,0	7,0-8,0	
Chateaudun	1812		8,0	6,0	2,0-3,0
Dreux	1812	6,0-7,0			
Quimper	1812	8,0			
Rennes	1814	5,0			
Wassy	1812		6,0	5,0	4,0
Clamecy	1812		6,0	4,0	2,5
Cosne	1812	5,0			
Nevers (Loire, Allier)	1812	6,0-8,0			
- (Amognes)	1812	4,0-5,0			
- (elsewhere)	1812	3,0			
Tarbes	1812		7,2	5,8	4,0
dép. du Rhône	1816	5,0			
Corbeil	1812	4,0-5,0			
Rambouillet	1812	2,0-10,0	(winter-wheat)		
		2,2-10,7	(spring-wheat)		
Melle	1814	7,0-8,0	(small farms)		
		5,0	(large farms)		
Bellac	1812	4,5			
Limoges	1812	4,0-5,0			

3. A. PLAISSE, 570

Arr. de Louviers 1812 7,0

4. G. CASTELLAN, 191-192

1815-1830

Arrondissement de Lyon
cantons de:

Lyon	6,0-7,0
L'Arbresle	5,0
Sainte-Colombe	5,0
Givors	5,0-7,0
Limonest	4,0-6,0
Neuville	6,0

Arrondissement de Villefranche
cantons de:

Anse	5,0-7,0
Beaujeu	5,0
Belleville	4,0-5,0
Bois-d'Oingt	5,0
Saint-Nizier	4,0-5,0
Monsols	3,0-4,5

(Continued)

Arrondissement de Lyon cantons de :		Arrondissement de Villefranche cantons de :	
Mornant	4,0	Tarare	3,5
Saint-Genis-Laval	6,0-7,0	Thizy	3,5
Saint-Laurent	4,0	Villefranche	5,0
Saint-Symphorien	3,0-5,0	av.	5,0
Vaugneray	3,0-5,0		
av.	5,0		

5. P. GOUBERT, (a) 101

Clermont, Beauvaisis	1816-7	2,0
		2,5
		3,0
		6,0 (average)
		7,0-8,0

C. BELGIUM

1. J. N. SCHWERZ, (a) 1310

Villages in Flanders

1802-3		
Edegem, higher grounds		17,6
- , lower grounds		12,4
Ekeren, higher grounds		12,0
- , polder		10,3
Oordam, polder		13,7
Voorde		16,7
Melle		14,0

2. M. FAIPOULT, 115 (calculated)

Dép. de l'Escaut	1805	16,0 (high yield)
		12,5-13,5 (good year)
		8,0 (moderate soil)

D. THE NETHERLANDS

1. J. M. G. VAN DER POEL, (a) (calculated)

Franeker, Friesland	1800	16,0-20,0 (high yield)
		8,0-10,0 (average)

2. F. J. B. D'ALPHONSE, 174-175 (calculated)

The whole country	1812	8,0 (average)
		12,0 (high yield)
		5,0 (low yield)

E. SWITZERLAND

1. J. N. SCHWERZ, (c) 198 tables a, b and c (calculated)

School of Fellenberg at Hofwyl, near Berne

1810-1	18,9
1811-2	11,7
1812-3	7,1
av.	12,6

F. GERMANY

1. G. LANGE, 49

Bersdorf, Silesia

1800-10	5,3
1810-20	7,1

2. O. BÖHME, 92

Estates near Dresden

Ostra		Gorbitz		Lohmen	
1799-1807	8,8	1820	8,0	1820	5,3
1809	9,5				

3. D. SAALFELD, 163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Lucklum, near Wolfenbüttel 1801-7 4,5

4. H. W. FINCK VON FINCKENSTEIN, 214

Averages of the Prussian provinces

1807	
East-Prussia	5,2
West-Prussia	6,3
Brandenburg	5,2
Pomerania	6,3
Posen	6,3
Silesia	4,4
Saxony	7,0
av.	5,8

5. H. CH. PH. KIESEWETTER, 114, 167, 199, 219

Estates in northern Germany

1807		
Probstei Preetz	12,0	
Tönning	12,0	13,3
	18,7	26,0
Kronprinzenkoog	15,0-20,0	
Stade	10,0-12,0	

6. FR. ARENDS, I 188, 302, 387 (calculated), 402, 429, 457; II 26, 48, 63 (calculated), 132, 134 (calculated), 159, 244, 271, 283 (calculated), 298; III 43

1818-20

Reiderland	14,7	Amt Wittmund	9,0 (poor soil)
	10,0-20,0	Amt Friedeburg	12,0-14,0
	16,0; 16,7	Harlbucht	16,0
Amt Emden	13,3	Westerburer-	
Amt Pewsum	14,7	polder	16,0-18,0
Amt Aurich	10,7	Alt- und Neu-	
	10,7-18,7	bunderpolder	13,3
near Aurich	6,0- 8,0	Landschafts- und	
near Norden	11,0	Heinitzpolder	16,5
Amt Berum	10,7	Sande, Amt Jever	12,0-16,0
Amt Esens	14,0	Amt Minsen	12,8-22,4
Amt Wittmund	14,0	Amt Tettens	16,0-19,2
		Knyphausen	8,0-11,4
Generally	7,5		
- on good soil	12,7		

G. SWEDEN

1. J. HILLSTENIUS, 106-107 (calculated, sowing-seed and harvests of whole Sweden)

Average of whole Sweden

1802	6,5	1809	6,6	1816	6,6
1803	6,5	1810	6,4	1817	6,7
1804	5,6	1811	5,4	1818	5,9
1805	6,1	1812	5,6	1819	7,1
1806	5,0	1813	6,4	1820	7,7
1807	6,3	1814	6,3	av.	5,7
1808	5,7	1815	6,6		

Wheat, 19th century

2. G. UTTERSTRÖM, I (1957) 201 table 11, 203 table 12 (calculated, Utterström gives harvests minus sowing-seed)

Björnö in Uppland

1803	9,4	1809	4,5	1815	10,9
1804	8,7	1810	10,4	1816	9,6
1805	9,1	1811	4,0	1817	7,5
1806	7,3	1812	7,4	1818	5,5
1807	7,0	1813	5,6	1819	14,3
1808	10,0	1814	9,4	1820	8,7
				av.	8,3

Bysta in Närke (reliable?)

1816	25,4
1817	15,7
1818	24,3
1819	29,0
1820	21,0
av.	23,1

H. CZECHO-SLOVAKIA

1. F. LOM, 169 table III

Estates in Bohemia

Krumlov	1801-50	5,7
Lovosice	1801-50	6,9
Třeboň	1801-50	5,2

I. RUSSIA

1. J. BLUM, 5

Russia, in the Black Earth	1802	av. 4,4 8,0 (sometimes) 14,0-16,0 (very high yield)
Russia, forest zone	1802	3,0

I. NINTH CENTURY

A. FRANCE

1. PH. GRIERSON, 461; see B. H. SLICHER VAN BATH, (a) 76 (supposition); G. DUBY, (d) 85; DUBY's yield ratio: 1,6 is not correct, as he calculates harvest minus sowing-seed

Cysoing, near Lille 810 2,6

II. TWELFTH CENTURY

A. FRANCE

1. G. DUBY, (a) 138

Montberthoud, near Cluny 1155-6 5,0

III. THIRTEENTH CENTURY

A. GREAT BRITAIN

1. ANONYMOUS HUSBANDRY, 71

Thirteenth century in England 7,0

2. F. M. PAGE, 329 appendix II

Oakington, near Cambridge	
1271-2	3,8
1281-2	7,8
1282-3	5,6
1289-90	3,8
1290-1	4,4
1291-2	6,6
1296-7	4,2
1297-8	4,6
1298-9	9,3
av.	5,6

3. J. A. RAFTIS, 167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Elton, Huntingdonshire 1297 6,3

4. M. MORGAN, 102 (calculated)

Blakenham, near Bury St. Edmunds

1294-5	3,9
1297-8	3,2
1298-9	3,3
av.	3,4

5. F. B. STITT, 40-41 table 3 (calculated)

Demesne at Lenton, Nottinghamshire 1296-7 4,7

IV. FOURTEENTH CENTURY

A. GREAT BRITAIN

1. M. MORGAN, 99-102 (calculated)

Blakenham, near Bury St. Edmunds Wretham, east of Norwich

1299-1300	3,1	1303-4	3,6
1300-1	3,7	1304-5	3,4
1301-2	3,7	1305-6	4,2
1302-3	3,4	1306-7	3,1
1331-2	2,8	1307-8	2,7
1332-3	3,3	1336-7	3,2
1334-5	2,8	1337-8	3,5
1335-6	1,9	1338-9	3,0
1336-7	3,3	av.	3,3
1337-8	4,1		
1338-9	2,8		
av.	3,2		

2. F. M. PAGE, 329 appendix II

Oakington, near Cambridge

1304-5	4,6
1307-8	8,9
1319-20	8,7
av.	7,4

3. J. A. RAFTIS, 167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Elton, Huntingdonshire

1311	1,8
1313	14,2 (doubtful)

4. J. E. THOROLD ROGERS, I 38-45 (calculated)

Manors	Counties	1333-4	1334-5	1335-6
Maldon	Surrey	3,3	-	5,5
Letherhead	Surrey	-	-	21,7 (doubtful)
Cambridge	Camb.	-	2,3	-
Gamlingay	Camb.	6,5	2,9	2,9
Holywell	Oxon.	8,6	11,7	11,1

5. H. P. R. FINBERG, III table IX

Ottery, Devon	
1335	7,6
1342	9,2
1343	6,3
av.	7,7

V. FIFTEENTH CENTURY

A. GREAT BRITAIN

1. H. P. R. FINBERG, III table IX

Hurdwick, Devon			
1412	12,0	1489	9,9
1413	12,1	1490	11,1
1463	7,1	1491	6,7
1470	5,3	1497	6,5
		av.	8,8

B. FRANCE

1. A. PLAISSE, 166, 168-169 tables 35-37 (of dubious value)

Cantaloup, Le Neubourg, Sainte-Vaubourg 1401-15 av. 2,9

2. I. GUÉRIN, 74

Vernou, Sologne	1447	8,7
Ferté-Imbault, Sologne	1448	2,0

C. THE NETHERLANDS

1. REKENING HERTOGELIJK BOUWHUIS, Hattem (account, calculated)

Hattem, near Zwolle	1418	12,6
	1419	7,0
	1420	8,5
	av.	9,7

VI. SIXTEENTH CENTURY

A. GREAT BRITAIN

1. H. P. R. FINBERG, 111 table IX

Hurdwick, Devon	
1504	6,8
1508	7,8
1513	8,8
1516	11,7
1537	5,5
av.	8,1

B. GERMANY

1. D. SAALFELD, 162-163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover

Wickensen		Wolfenbüttel	
1540-1	6,1	1540-1	7,2
1579-83	5,6	1579-90	6,5
Gandersheim		Lucklum	
1579-83	5,5	1595-99	4,1

2. O. KIUS, 141-143

near Weimar

1549	4,4	1555	3,9
1550	4,3	1557	3,6
1551	4,6	1558	3,5
1552	6,2	1560	4,7
1553	4,6	1564	4,1
1554	6,0	av.	4,5

3. H. H. WÄCHTER, 112 tables 10 and 11. Calculated on the base of the quantities of sowing-seed mentioned in table 10

East-Prussia

Average during the period 1550-1695			
Balga	3,9	Weeskenhof	4,0
Carben	3,3	Behlenhof	3,3
Görlitz	3,4	Waldau	3,3
Mörlin	3,2	Schaaken	3,7
Grosser Hof	3,6	Memel	3,0
Kleiner Hof	4,1	av.	3,5

Rye, 16th century

4. A. BACKHAUS, 204

Schmatzfeld, near Wernigerode, Harz 1552-7 3,7

5. O. BÖHME, 92

Ostra, near Dresden 1571 3,5

6. H. WISWE, 113

Wobeck, Lower Saxony 1580-1 3,8

7. J. ŠOLTA, 163 table II

Estates in Lusatia, Saxony

Villages Kuckau and Panschwitz

1584	2,5
1585	2,0
1586	4,2
1588	3,4
1594	4,2
av.	3,3

8. H. WIEMANN, 47, 59-65 (calculated, ratio of the yield of the past year to the sowing-seed of the next year)

Barthe, near Leer, Ostfriesland 1597 4,6

C. DENMARK

1. H. H. FUSSING, (a) 104

Crown estates on Falster	1545-6	2,4
Sofieholm, Falster	1582-3	2,0

2. A. NIELSEN, 157 (calculated)

Three crown estates in North Zealand 1582 3,6

D. POLAND

1. A. WAWRZYŃCZYKOWA, (a) 99-124 tables 1-13

Estates of the Cracow Chapter in the voivodship of Sieradz

Estates	1552	'53	'54	'64	'65	'66	'67	'68	'69	'73	av.
Pabianice	6,4	3,8	5,3	3,2	4,0	3,9	4,0	2,4	4,3	3,9	4,1
Świątniki	5,3	3,8	3,9	2,3	2,5	2,0	4,6	2,5	3,5	4,1	3,4
Dobroń	-	3,6	-	4,2	2,4	5,4	3,6	3,2	7,7	5,0	4,4
Rzgów-Gospodarz	4,2	3,9	5,3	2,8	2,5	2,3	4,4	2,9	-	3,6	3,5
Górka Wielka	4,1	2,5	5,3	3,2	3,2	2,1	5,5	1,8	3,6	3,5	3,5
Wiskitno	3,7	3,2	6,7	2,5	2,4	4,7	6,2	3,5	4,9	3,5	4,1

(Continued)

Estates	1552	'53	'54	'64	'65	'66	'67	'68	'69	'73	av.
Kurowice	2,2	3,4	3,5	2,3	1,8	2,7	4,8	3,3	2,7	4,4	3,1
Brojce	6,8	3,9	3,7	2,5	3,0	4,7	4,8	1,6	4,7	5,4	4,1
Dłutów	3,4	5,8	4,7	3,5	3,9	3,5	3,5	2,4	5,6	3,8	4,0
Average of these nine estates	—	—	—	3,0	2,8	3,4	4,5	2,6	4,2	3,9	—
Górka Mała lub Siekielów	5,8	3,4	4,3	1,9	1,7	2,1	3,6	1,3	3,8	2,9	3,1
Brus	—	4,0	—	3,3	4,2	3,3	4,8	2,4	4,9	3,3	3,8
Leszczyny	—	—	—	3,3	4,0	1,7	3,3	—	—	—	3,1
Zytowice	4,4	—	—	2,1	1,9	2,2	3,1	2,1	3,3	4,1	2,9

2. A. WYCZANSKI, 587

Estates in the Palatinate of Lublin

1563-4

5,9

Estates in the Palatinate of Mazowsze

1563-4

5,7

Villages of the town of Poznań

end 16th c.

4,2

Id., 589 (calculated)

Estate of Korczyn

1564

4,4

1569

4,5

3. W. PRANDOTA, 164-178, 184 tables 3-10, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1564 winter-rye	1564 spring-rye	1570 winter-rye	1570 spring-rye
Guzów	6,9	2,6	5,5	3,9
Kaski	9,0	3,3	4,6	—
Korabiewice	8,9	3,0	6,1	7,8
Czerwonka	6,7	—	5,6	—
Wola Szydłowiecka	8,6	3,3	—	—
Sokole	—	—	5,1	4,0
Orzyszew	9,2	—	—	—
Miedniewice	10,6	—	—	—
Duchy of Oświęcim	7,6	4,3	—	—

4. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?)	av.
Stodoly	3,9	—	4,1	6,3	4,2	2,7	1,4	2,3	3,6
Sobótka	5,6	—	5,6	—	—	—	—	—	—
Janiszów	4,1	—	5,5	—	—	—	—	—	—
Makoszyn	5,3	—	3,4	3,4	4,3	2,6	3,1	—	3,7
Samorzec	4,0	—	7,6	7,6	6,0	3,1	2,6	5,3	5,2
Nisko	4,2	—	2,7	2,7	3,1	3,7	2,2	5,1	3,4
Góra	5,1	—	4,4	—	—	—	—	—	—

Rye, 16th century

(Continued)

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?)	av.
Strzegocice	8,3	—	6,1	—	—	—	—	—	—
Plawo	9,9	—	8,9	8,9	4,9	2,2	1,3	4,6	5,8
Tuszów	5,0	—	3,9	3,9	2,4	1,9	1,7	2,3	3,0
Pońaniec	2,3	—	2,2	2,2	1,9	1,8	0,8	3,4	2,1
Strzegom	4,3	—	2,3	2,3	2,1	1,2	0,8	1,6	2,1
Osiek	4,0	—	2,3	2,3	2,2	2,6	0,8	3,0	2,5
Bukowa	4,2	—	2,8	2,8	1,9	3,2	1,4	2,4	2,7
Czajków	3,6	—	2,3	2,3	1,0	2,3	1,5	2,0	2,1
Chmielów	4,0	—	2,8	2,8	3,0	2,3	1,8	2,3	2,7
Mokrzyszów	4,3	—	3,1	3,1	1,3	0,8	2,6	3,5	2,8
Bugocice	6,4	—	7,6	—	—	—	—	—	5,5
	4,0	—	4,2	—	—	—	—	—	
Skotniki	3,7	—	3,7	—	—	—	—	—	—
Zagość	4,0	—	4,0	—	—	—	—	—	—
Konieczmosty	4,6	—	4,6	—	—	—	—	—	—
Strożyska	4,9	—	4,9	—	—	—	—	—	—
Sępichów	4,2	—	4,2	—	—	—	—	—	—
Kocina	4,5	—	4,5	—	—	—	—	—	—
Winiary	3,5	—	3,5	—	—	—	—	—	—
Mędrzechów	5,1	—	5,1	—	—	—	—	—	—
Gołębiów	5,4	5,4	3,5	—	—	—	—	—	4,8
Glinice	1,7	2,7	2,4	—	—	—	—	—	2,3
Zwoleń	5,1	3,9	4,8	—	—	—	—	—	3,6
	3,6	1,2	3,1	—	—	—	—	—	
Tczów	7,7	6,2	6,2	—	—	—	—	—	5,5
	5,6	5,0	2,2	—	—	—	—	—	
Maków	6,3	4,0	3,4	—	—	—	—	—	4,6
Makowiec	5,7	6,9	3,9	—	—	—	—	—	5,5
Brzoza	5,0	3,5	5,6	—	—	—	—	—	4,3
	2,7	6,3	3,0	—	—	—	—	—	
Jedlnia	4,3	1,4	4,2	—	—	—	—	—	3,1
	3,0	—	2,7	—	—	—	—	—	
Gzowice	4,5	4,2	3,3	—	—	—	—	—	3,6
	3,0	3,0	—	—	—	—	—	—	
Klwatka	5,3	5,5	5,0	—	—	—	—	—	4,7
	—	3,0	—	—	—	—	—	—	
Wacyń	5,2	4,0	4,0	—	—	—	—	—	4,2
	3,7	—	—	—	—	—	—	—	
Mironice i Bielany	6,9	5,6	5,0	—	—	—	—	—	5,8
Kozienice	5,9	5,9	7,8	—	—	—	—	—	6,5
Gołąb	6,5	—	6,0	—	—	—	—	—	—
Stare Chęciny	3,0	—	3,1	—	—	—	—	—	2,7
	2,0	—	2,6	—	—	—	—	—	
Radkowice	3,3	—	3,8	—	—	—	—	—	3,2
	—	—	2,5	—	—	—	—	—	
Drugnia	6,0	—	5,2	—	—	—	—	—	5,0
	4,6	—	4,3	—	—	—	—	—	
Brzeziny	5,3	—	5,3	—	—	—	—	—	—
Gacki	5,0	—	5,0	—	—	—	—	—	—
Average of 45 estates	4,7	—	4,2	—	—	—	—	—	—

5. S. ŚRENIOWSKI, 110-111

Knyszyn	1561	4,0
		4,5
		9,0
		10,0
	av.	7,1
Zator-Oświęcim	1564	5,0 (2×)
		11,0
		12,0 (2×)
	av.	9,0

6. J. LESKIEWICZOWA, 19 table 2

Estates near Osieck

1564	winter-rye	spring-rye
Osieck	7,4	2,6
Żelazna	10,0	7,7
Wola Starogrodzka	6,6	—
Chrosna	7,8	3,7

7. A. MAĆZAK, 99

Laski 1586-88 3,3

8. J. TOPOLSKI, 99-101 (calculated)

50 estates in Masovia and Inner-Poland end of 16th cent.		4,5-5,0
Grzegorzew, Łęczyca	1590	4,5 (4 estates)
Turek, Sieradz	1592	5,3
Opatówek, Kalisz	1592	5,0
Kluki, Piotrków	1592	5,3
Tumski, Łęczyca	1592	6,7
Łowicz	1592	10,0
Zduńska Wola	1592	4,3
Uniejów	1592	3,6
Zamoyskiego estate in Śniatyczach	1595-6	2,2

9. J. OCHMAŃSKI, 387-388 tables 3-4

Estates near Kobryn

1597	winter-rye	spring-rye
Czerewaczycki estates	2,6	3,8
Wieżecki estates	4,3	1,2
Prużański estates	2,7	0,5
Czachecki estates	2,0	2,2
Horodecki estates	2,7	—
Moderate soil	3,2	1,8
Poor soil	2,3	1,6

10. A. WAWRZYŃCZYK, (c) 84 table XII

Peasant exploitation of royal estates in Masovia 16th cent. 8,7

E. LATVIA

1. V. V. DOROŠENKO, 72-73

Rīga	1548	1,4
Rīga	1549-51	2,0-3,0
Tiesenhäusen	ca. 1585	5,0
Kalsnav	ca. 1585	3,0-
Marzen	ca. 1585	3,0-
Ergel	1587	1,7 (bad year)
Malpils	1590	1,5

2. A. SOOM, (a) 40

Berson	1582-92	5,6
Kalzenau (= Kalsnav)	1582-7	3,7
Martzen (= Marzen)	1584-92	5,0
av.		4,7

F. RUSSIA

1. K. N. ŠČEPETOV, 125-126 table 4

Estates of the Iosifo-monastery at Volokolamsk in a region north of Moscow. 1592

Starca Nifonta Golodnogo		Starca Annsima	
Očiščevo	2,8	Kondratovo	3,5
Krjukovo	0,5	Ievlevo	2,1
Bujgorod	3,1	Belkovo	1,6
Bykovo	2,7	Lestvicyno	1,5
Il'icyno	3,2	Vorsino	3,1
Starca Makarija Rževskogo		Šestakovo	1,5
Rakitino	3,3	Uspenskoe	2,6
Sudnikovo	2,9	Ragušino	3,2
Spasskoe	3,1	Balabanovo	2,9
Ivanovskoe	2,6	Starca Ieva Bolotovo, a zatem Feodosija	
Safatovo	4,1	Mamošino	1,6
Zubovo	3,1	Beli	3,0
Kur'janovo	2,3	Savel'ev	3,7
Gavrino	1,7	Molečkin	3,5
Starca Varsanofija Lukovnikovskogo		Bužarovo	3,5
Lukovnikovo	2,3	Gorbovo	4,0
Ramenka	2,0	Retkino	4,4
Turovo	2,2		
Tryznovo	3,6		
Elinarchovo	2,9		
Faustova Gora	2,2		
Koz'modem'janskoe	1,9		
Neverovo	3,9		
Balaškovo	3,2		

VII. SEVENTEENTH CENTURY

A. FRANCE

1. E. APPOLIS, 400

Lodève 1674 5,0

B. THE NETHERLANDS

1. B. H. SLICHER VAN BATH, (d) 580

Dalfsen, Overijssel 1601 5,0-8,0 min. 3,0 max. 13,0

C. GERMANY

1. H. WIEMANN, 47, 75-78 (figures of p. 47 have to be corrected)

Barthe, near Leer, Ostfriesland

1602	2,7
1603	4,1

2. D. SAALFELD, 162-163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover

Bahrdorf		Gandersheim		Wickensen	
1608-28	2,9	1602-9	4,5	1613-23	1,9
1637-48	2,3	1619-39	5,3	1634-44	3,7
1658-64	3,1	1649-59	4,7	1653-5	3,5
1684	1,7	av.	4,8	1663-4	0,6
av.	2,6			av.	2,4

Wolfenbüttel		Lucklum	
1600-11	6,6	1600-6	3,6
1620-31	7,4	1612-22	5,1
1650-61	5,4	1631-40	5,9
1670-82	5,1	1644-59	2,3
av.	6,1	1660-6	4,8
		1669-70	3,5
		av.	4,1

3. H. WISWE, 113

Estates in Lower Saxony

Mariental	1601-2	2,3
Walkenried	1603-4	2,0
	1605-6	4,0
Unseburg	1673-4	6,7
Hackenstedt	1683	4,0

Rye, 17th century

4. G. HANSEN, 403-404, 413-414, 478

Estates in Schleswig-Holstein

Year	Rundhof	Drüllt	Koselau
1610	5,4	3,3	-
1634-5	-	-	3,7
1690	3,3	5,0	-

5. I. BOG, 24-25

Cloister Heilsbronn between Nuremberg and Ansbach 1618 7,9

6. W. ABEL, (a) 318; (b) 53

Eastern Germany

1630-1	19,0 (excessive high yield on one estate)
	10,0-12,0

7. O. BÖHME, 92

Estates near Dresden

Lohmen		Gorbitz		Ostra	
1631-3	4,7	1651	6,1	1694-9	4,4
1642-7	5,8	1652	4,7		
1651	5,5	1653	5,4		
1680	5,0	1663	5,7		
av.	5,2	1673	4,5		
		1683	3,7		
		1693	3,5		
		av.	4,8		

8. J. ŠOLTA, 99 table 4, 163-165 table I-IV, 168-189 table VII

Estates in Lusatia, Saxony

Purschwitz		Kuckau and Panschwitz		Gauszig	
1631	1,9	1637	3,0	1648	3,0
1632	3,6	1653	4,4 (only Kuckau)	1649	2,4
		1667	2,9	1650	2,7
		av.	3,4	1651	2,2
				1652	2,8
				1653	3,3
				1654	1,9
				1655	1,8
				1656	2,5
				1657	2,4
				av.	2,5

9. W. ACHILLES, 155. Calculated on the base of the money-value of the sowing-seed and the yield

Hedeper, near Wolfenbüttel 1632-90 6,4

10. W. KOPPE, 22 table IV

Estates near Oldenburg in Holstein

Year	Cismar	Körnack
1635	10,5	—
1637	5,8	—
1638	5,4	3,5
1639	3,3	9,0
1640	0,6	0,8
1641	—	3,0
1642	2,1	3,1
1643	—	3,6
1644	—	3,7
1645	1,6	3,5
1647	—	1,1
1648	—	2,5
1649	—	1,5
1650	—	2,1
1651	—	1,7
1652	—	4,5
1653	—	8,3
av.	4,2	3,5

11. A. BACKHAUS, 205

Schmatzfeld, near Wernigerode, Harz

1660	3,9
1670	5,2

12. J. HEISIG, 113, 117 (calculated)

Estates in Silesia

Giersdorf	1688-92	3,4
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D. DENMARK

1. G. OLSEN, 439-446, table III, IV

43 estates over all Denmark

1610-1659	Yield ratios	Number of yields	%
	0,0-0,4	9	1,4
	0,5-0,9	60	9,8
	1,0-1,4	125	20,0
	1,5-1,9	139	22,3
	2,0-2,4	102	16,3
	2,5-2,9	74	11,8

Rye, 17th century

(Continued)

	1610-1659		Yield ratios		Number of yields		%				
			3,0-3,4		46		7,3				
			3,5-3,9		29		4,7				
			4,0-4,4		18		2,9				
			4,5-4,9		13		2,1				
			5,0-5,9		8		1,3				
			6,0-6,9		1		0,1				
			7,0-7,9		1		0,1				
					<u>625</u>		<u>100,0</u>				
Averages of five year periods											
Estates	1610	1615	1620	1625	1630	1635	1640	1645	1650	1655	av.
	- '14	- '19	- '24	- '29	- '34	- '39	- '44	- '49	- '54	- '59	
<i>Zealand</i>											
Antvorskov	2,1	1,8	1,5	1,3	1,8	3,2	2,0	1,5	1,6	1,5	1,8
Lystager	-	-	-	-	2,2	3,2	3,1	1,3	2,5	-	2,5
Ny Ladegaard	-	-	-	-	-	-	2,3	-	-	-	-
Esrom	1,4	1,0	1,3	2,1	1,4	2,7	-	0,8	1,5	1,8	1,4
Abrahamstrup	-	-	-	1,2	1,9	-	-	-	-	-	-
Saebygaard	-	-	1,4	-	2,4	-	-	-	2,2	-	2,0
Ibstrup	-	-	-	1,7	1,7	2,5	1,8	-	-	-	1,9
Faurholm	-	-	-	1,3	1,3	1,7	-	-	-	-	1,4
Lille Ladegaard	-	-	-	-	1,5	1,5	1,7	-	-	-	1,5
Lekkende	2,6	1,7	1,4	1,4	1,6	1,7	-	-	-	-	1,7
Jungshoved	2,4	1,8	1,5	2,1	1,5	-	-	-	-	-	1,9
Sorø	2,6	2,4	1,7	1,5	2,4	3,3	2,4	-	-	-	2,3
Herlufsholm	2,1	-	-	-	3,7	3,5	3,1	2,7	3,2	4,0	3,2
Hørsholm	-	-	-	2,5	1,0	-	-	-	-	-	-
Ringsted	2,1	1,6	1,7	-	-	-	-	-	-	-	1,8
Vallø	-	-	2,1	2,6	3,2	2,9	-	-	-	-	2,7
Lellinge	-	-	2,4	2,9	-	-	-	-	-	-	-
<i>Lolland-Falster</i>											
Skjørringe	-	-	-	-	-	-	3,2	-	-	-	-
Korselidse	-	-	-	-	-	-	2,0	-	-	-	-
Halsted Kloster	-	-	-	-	-	-	2,5	-	-	-	-
<i>Funen</i>											
Tranekjaer	-	-	-	-	-	-	-	1,4	2,1	2,4	2,0
<i>Jutland</i>											
Skanderborg	1,2	1,8	1,8	-	-	-	-	-	-	-	1,6
Ring Kloster	1,0	1,2	1,5	-	-	-	-	-	-	-	1,2
Aakjaer	1,5	1,2	1,4	-	-	-	-	-	-	-	1,4
Kolding	1,3	1,3	1,2	-	-	-	-	-	-	-	1,2
Skødegaard	1,6	1,7	2,2	-	-	-	-	-	-	-	1,8
Bjellerup	3,9	2,7	3,5	-	-	-	-	-	-	-	3,4
Møgeltønder	-	4,0	4,2	-	3,1	3,1	2,2	3,2	2,6	-	3,2
Lyngbaekgaard	1,7	1,7	2,4	-	-	-	-	-	-	-	1,9
Aastrup	-	-	2,0	-	-	-	-	-	-	-	-

(Continued)

Estates	1610	1615	1620	1625	1630	1635	1640	1645	1650	1655	av.	
	-14	-19	-24	-29	-34	-39	-44	-49	-54	-59		
Hevringholm	-	-	-	-	-	-	-	-	-	3,0	-	
Estruplund	-	-	-	-	-	-	-	-	-	2,0	-	
Maxima	Minima											
Møgeltønder	1620	7,0		Ibstrup			1635		0,0			
id.,	1618	6,1										
Sorø Kloster	1637	5,7										
id.	1638	5,7										

2. H. H. FUSSING, (a) 104-105; H. H. FUSSING, (b) 79; G. OLSEN, 449.

Royal and noble estates

Gessingholm, Jutland

1643	1,7
1646	2,0
1656	3,4
1661	4,0
av.	2,8

Zealand			Jutland		
Selsø	1633-4	1,5	Demstrup and		
Eskildsø	1633-4	1,5	Sødringholm	1629-60	3,4
Københavns ladegaard	1641	5,0	Aalborg vestre		
Stevns and Vestfyn	1645	5,0	ladegaard	1634	4,0
				1637	5,5
			Skovgaard	1638-53	3,2
			Horsens	1639	5,0
			Skivehus	1645	5,0-6,0

E. SWEDEN

1. A. NIELSEN, 158; H. H. FUSSING, (a) 104; G. OLSEN, 441 table IV, averages of five year periods

Royal estates in Scania

Hageløse (Nielsen)	Hageløse (Fussing)	Year	Hageløse (Olsen)	Børringe	Lindholm
1619 1,6	1611-20 2,4	1610-4	1,9	1,7	3,2
1620 2,6	1621- 7 1,3	1615-9	2,0	1,2	1,8
1621 0,9	1632- 7 2,0	1620-4	1,3	1,1	2,5
1622 0,9	av. 1,9	1625-9	2,6	1,4	1,5
1626 1,2		1630-4	1,8	0,8	2,1
1627 2,6		1635-9	2,4	1,3	1,1
1632 1,8		1640-4	-	1,2	-
av. 1,7		av.	2,2	1,2	1,9

F. CZECHO-SLOVAKIA

1. P. HORVATH, 40

Southern Slovakia	16th-18th cent.	4,0-5,0
Northern Slovakia	16th-18th cent.	2,0-3,0

2. F. LOM, 169 table III

Estates in Bohemia

Krumlov	Winter-rye	Spring-rye	Lovosice
1651-1700	2,7	3,0	1666-1700 4,0

G. POLAND

1. W. PRANDOTA, 164-177, 184 tables 3-8, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1603	1620	1630	1661	av.
Guzów	3,5	4,4	4,4	4,4	4,2
Kaski	3,4	6,0	6,0	4,5	5,0
Korabiewice	2,8	5,6	5,5	2,2	4,0
Czerwotka	-	4,4	5,2	3,6	4,4
Wola Szydłowiecka	-	-	-	3,6	-
Sokole	3,7	3,3	6,2	2,3	3,9
Duchy of Oświęcim		winter-rye	spring-rye		
1616		4,7	3,5		
1660		2,1	-		

2. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1602	1602	1611	1615	1615	1611-5	1611-5	av.
Stodoły	3,9	2,2	-	-	-	2,9	-	3,0
Sobótka	-	-	-	3,3	3,2	-	-	-
Janiszów	-	-	-	4,4	-	-	-	-
Makoszyn	3,6	3,7	-	-	-	3,6	4,4	3,8
Samborzec	3,9	2,3	-	-	-	3,4	-	3,2
Nisko	2,7	2,4	2,9	2,7	3,5	-	-	2,8
Góra	-	-	-	4,2	-	-	-	-
Strzegocice	-	-	-	4,1	-	-	-	-
Pławo	2,9	-	-	-	-	3,2	-	-
Tuszów	2,5	1,7	-	-	-	3,2	-	2,5
Polaniec	1,8	2,5	-	-	-	3,1	2,5	2,5
Strzegom	2,8	2,5	-	-	-	2,7	2,3	2,6
Osiek	2,7	-	-	-	-	4,3	2,2	3,1
Bukowa	2,0	2,5	-	-	-	2,7	3,1	2,6
Czajków	2,3	2,4	-	-	-	2,8	3,2	2,8

(Continued)

Estates	1602	1602	1611	1615	1615	1611-5	1611-5	av.
Chmielów	2,4	3,0	-	-	-	2,4	-	2,6
Mokrzyszów	3,1	4,0	-	-	-	1,6	-	2,9
Bugocice	-	-	-	2,7	1,7	-	-	-
Skotniki	-	-	-	1,9	-	-	-	-
Zagość	3,6	-	-	3,0	-	-	-	-
Konieczmosty	-	-	-	3,4	-	-	-	-
Strożyska	-	-	-	3,9	-	-	-	-
Sepichów	-	-	-	3,7	2,3	-	-	-
Kocina	-	-	-	4,4	-	-	-	-
Winiary	-	-	-	4,0	3,0	-	-	-
Mędrzechów	-	-	-	3,6	-	-	-	-
Gołębiów	-	-	-	3,8	-	-	-	-
Glinice	-	-	-	1,9	-	-	-	-
Zwoleń	-	-	-	5,4	2,1	-	-	-
Tczów	-	-	-	4,5	-	-	-	-
Maków	-	-	-	7,0	32,0 ¹⁾	-	-	-
Makowiec	-	-	-	4,9	3,8	-	-	-
Brzoza	5,2	-	-	5,2	2,2	-	-	4,2
Jedlnia (1602-15)	-	-	-	-	-	2,8	-	-
Gzowice	-	-	-	1,8	2,0	-	-	-
Klwatka	-	-	-	4,0	2,0	-	-	-
Wacyń	-	-	-	4,6	-	-	-	-
Mironice i Bielany	5,2	-	-	5,2	-	-	-	-
Kozienice	4,2	-	-	3,2	2,6	-	-	3,3
Gołąb	-	-	-	2,7	3,3	-	-	-
Stare Chęciny	2,7	2,0	-	3,7	2,4	-	-	2,7
Radkowiec	5,1	2,3	-	4,8	-	-	-	4,1
Drugnia	5,2	4,3	-	6,2	7,1	-	-	5,7
Brzeziny	-	-	-	3,1	-	-	-	-
Gacki	-	-	-	2,6	2,1	-	-	-
Average of 45 estates	-	-	-	3,6	-	-	-	-

1) Of dubious value

3. A. WYCZANSKI, 589 (calculated)

Estate of Korczyn

1615	3,4
1660	4,2

4. J. TOPOLSKI, 99-101 (calculated)

Estates of archbishop of Gniezno beginning 17th century 4,0

Grzegorzew, Łęczyca (4 estates)		Opatówek, Kalisz		Kluki, Piotrków	
1615	3,6	1617	4,8	1636	4,0
1617	4,0	1685	2,0	1685	2,0
1685	3,2				
av.	3,6				

Rye, 17th century

(Continued)

Złakowie, Kościelny		Zduńska Wola		Gniezno (4 estates)	
1664	3,2	1642	4,2	1614	2,7
1685	3,3	1685	4,0	1653	3,8
Turkowice and Cisowa		1636	4,0		
Tumski, Łęczycza		1652	2,7		
Kurzelów, Chęciny		1646	4,0		
Uniejów		1658	3,7		
Samokłęski		1609	3,0		
Poznań estates		beg. 17th c.	4,0		

5. J. OCHMAŃSKI, 389 table 5

Estates near Kobryn	Winter-rye	Spring-rye
Czerewaczycki estates	1617 4,0	1,5

6. S. ŚRENIOWSKI, 114

According to J. HAUR, *Oekonomika ziemiańska generalna*, 1675 and J. HAUR, *Skład sekretów gospodarskich*, 1693

1675	3,0-4,0
1693	2,2-2,4

H. LATVIA

1. A. SCHWABE, 211

Estates in the Wolmar and Wenden districts		
1624	1,3-3,5	
1690	1,8-7,0	av. 4,3

2. E. DUNSDORFS, 137-141, 189

Estates in Vizdeme, N.W. Latvia	
1682	4,7
1683	5,4
1684	3,5
1685	4,9
1686	4,8
1687	5,2
av.	4,7

Estimation av. 3,0-4,0, on good soil 6,0-8,0

Estimation of total produce	1686-7	4,2 (calculated)
	1688	5,6 (calculated)

3. O. LIIV, 160 (quoting H. VON HAGEMEISTER, *Materialen zu einer Geschichte der Landgüter Livlands*, I (1836) 13-14)

1650-99 av. 3,0

I. ESTONIA

1. A. SOOM, (b) 75-79

200 estates over all Estonia

Number of estates	District	Period	Average yield ratio		
40	Harrien	1682-7	3,5		
30	Wierland	1682-7	3,6		
47	Jerwen	1682-7	4,3		
38	Wiek	1682-7	4,6		
15	Dorpat	1681-90	3,9		
13	Pernau	1681-90	3,9		
17	Ösel	1651-3	3,7		
Maxima		Minima			
Saastna	1683	8,2	Piivarootsi	1682-5	1,6
	av. 1682-5	6,7	Kalina	1682-6	2,7
Vana-Antsla	1686	8,5	Nüpli	1681-7	3,2
	av. 1684-7	5,3			
Lihula	1685	7,7			
	av. 1682-5	5,4			
Laiuse	1685	7,3			
	1689	6,4			
	av. 1682-90	5,0			

Yields of some other estates

Cesis-Valmeria	1624	2,5
	1654	3,2
Viljandi	1659-64	3,8
	1682-7	3,5
Kuimetsa Kaiu } Nabala }	1660-84	4,5
Pööravere } Kõima } Koonga } Audru }	1678-80	4,5

2. O. LIIV, 161-165

Estates	1680-1	'81-2	'82-3	'83-4	'84-5	'85-6	'86-7	av.
Kolga, Kuusalu	-	-	-	3,2	3,8	3,0	-	3,3
Kehtna, Rapla	-	-	3,1	5,0	3,3	2,2	-	3,4
Haiba, Hageri	3,4	3,0	4,8	2,6	2,8	-	-	3,3
Võhmata, Koeru	4,3	2,5	3,7	3,0	2,5	-	-	3,2
Albu, Madise	4,5	4,1	5,0	3,0	3,3	-	-	4,0
Lihula	1,9	4,6	5,2	4,4	7,7	-	-	4,8
Pühalepa	-	3,4	3,0	3,0	1,4	3,2	9,1	3,6
Ruila, Hageri	3,2	3,4	4,0	3,8	-	-	-	3,6

J. RUSSIA

1. Z. JA. BOJARŠINOVA, 255 (calculated)

Tomsk, West-Siberia	
1624	4,6
1625	2,8
1626	3,5
1661	4,7
av.	3,9

2. OČERKI ISTORII SSSR., VI (1955) 42-43; P. MILJUKOV, I (1900) 76 n.

Districts in Siberia		
Tjumen'	1620-50	3,0-10,0
Verchotur'e	1628	8,0
Turinsk	1630-49	8,0
Estates of the cloister of Kostroma		
	1657	2,5
	1658	1,5

Estates of B. I. Morozov

Nižnij Novgorod } Arzamas	1660-1	2,4-5,2
Rjazan' } Rjažsk		
Tver'	1667	3,0

Some other estates

near Moscow	1675	3,0
Arzamas } Skopin }	ab. 1675	5,0
district Tot'ma		
Eletsk	ab. 1675	2,5-3,0
	17th cent.	2,2 (average of a period of 19 years)

3. F. G. SAFRONOV, 190-193 (calculated)

Districts in Siberia near the rivers Lena, Angara and Ilim

Districts	1658	1679	1687	av.
Upper- and Lower Ilim	9,7	2,0	2,8	4,8
Jandinsk, Angara	-	5,2	3,8	-
Ust'-Kutsk, Upper Lena	7,7	2,7	-	-
Orlensk, Upper Lena	7,9	2,0	-	-
Tutursk, Upper Lena	7,2	3,3	-	-
Upper Kirensk and Krivoluksk, Upper Lena	-	1,5	-	-
Lower Kirensk, Upper Lena	15,0	0,7	4,2	6,6
Ilginsk, Upper Lena	-	1,4	-	-

4. Z. A. OGRIZKO, 29-32

Moscovy 1640 10,0

Villages on the Lower Dvina

Pestovo

1674	1,5	1686	4,9
1676	1,8	1687	12,0
1680	11,5	1689	11,0
1681	7,0	1691	4,2
1682	8,0	1692	13,6
1683	7,0	1693	9,3
1684	2,4	av.	7,2

1684	Yield ratio	Number of villages	1687	Yield ratio	Number of villages
	0,0-0,9	13		0,0-1,9	1
	1,0-1,9	17		2,0-2,9	5
	2,0-2,9	11		3,0-3,9	4
	3,0-3,9	7		4,0-4,9	11
	4,0-4,9	6		5,0-5,9	9
	5,0-7,9	3		6,0-6,9	9
	—	—		7,0-7,9	7
		57		8,0-8,9	3
				9,0-10,0	2
				12,0	1
					<u>52</u>

Yields of some villages

Zabalot'e	1676	9,0
	1676	11,0
Baranov Navoloki	1680	1,2
Krnjaža	1680	2,3
Torasovsk	1680	2,8
Istoka	1684	1,3
Byslaevo	1688	1,8
Osipova	1688	1,4
Milkovščino	1688	3,0

5. F. I. REZNIKOV, 95-96

Villages on the Lower Dvina in the district of Velikij Ustjug (Morozovica, Straškovo and Korjakina)

1678	2,0-6,5
1682	1,5-5,0

Cloister of Cholmogorsk

1685	5,0
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VIII. EIGHTEENTH CENTURY

A. GREAT BRITAIN

1. A. YOUNG, (b) IV 230-234

1770

Bawtrey-Doncaster	8,0	Danby	22,5
Wilbersfort, York	12,5	Raby-castle	16,0
Hatton, York	10,0	Morpeth	15,0
Stillingfleet	9,6	Alnwick	10,0
Howden	8,0	Fenton	15,0
Wentworth	9,6	Rothbury	10,0
Yeddingham	18,7	Cambo	5,1
East Newton	6,7	Glenwelt	14,0
Nunnington	18,7	Ascot, Carlisle	6,7
Gilsdale	18,7	Penrith	12,0
Schorton	12,5	Holme, Burton	5,0
Gilling, Richmond	16,0	Kabers	10,7
Rookby	20,0	Shenston, Litchfield	15,0
Kiplin	13,5	Hagley	8,0
Swinton	8,0		

2. A. YOUNG, (c) IV 243-245

1771

Blisworth	12,0
Hazelbeeck	5,3
Gateford	12,0
Blythe	8,0
Bootham	12,0
Canwick	10,0
Runcton, Lynn	12,6
Snettisham	9,3
Came	6,0

3. A. YOUNG, (j) 57 (calculated)

Suffolk	1797	10,7 (average)
		16,0 (on better soils)

4. A. YOUNG, (k) 125

Knaith	1799	14,0
Normanby	1799	8,0

B. FRANCE

1. G. LIZERAND, 174-175

Paron, Sens	18th c.	4,0-5,0
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2. P. GOUBERT, (b) 29

Aire and Béthune	1716	13,0-16,0 (rich soils)
Soissons	1716	10,0 (rich soils)
		4,0- 8,0 (moderate soils)
av.		5,0- 6,0 (moderate soils)

3. E. MIREAUX, 322-331 appendix IV (calculated)

Noisy-le Grand, Brie	1732-5	8,8
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4. CH. LECLERC DE MONTLINOT, 185 (calculated)

near Lille	1776	10,0
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5. H. SEE, 385-387

Bretagne	1776-8	8,0
départ. Quimper	1776	4,0
départ. Vitré	1776	8,0
départ. Hennebont	1776	8,0
Balazé	1750-99	4,0
		5,0
		5,3
Rennes	1788	1,5

6. A. PLAISSE, 569 (estimation)

Le Neubourg	1778-9	7,0
		6,8
		3,0
		2,1
av.		4,7

7. A. YOUNG, (f) II 567, 581, 587, 593, 594, 595, 597, 599

 1787-1789

Issoire	10,0
Sologne	3,0
Champagne	4,0
Luzy, Nièvre	5,0-6,0 (high yield)
Chevagnes, Allier	6,0 (high yield)
Moulins, Allier	4,0-5,0
La Palisse, Allier	4,0
le Nivernais	5,0
Berry	5,0-6,0
Limoges	4,0
Mountain districts	4,0

8. A. YOUNG, (e) II 216

Lanslebourg	1787-9	6,0
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9. O. FESTY, (a) 37 n. 6

Montferme, Ain	1793	3,0
Chambéry	1793	5,0-6,0

C. ITALY

1. A. YOUNG, (e) 209, 211

Milan-Pavia	1787-9	11,0
Turin	1787-9	6,0
Codogno, Milanese	1787-9	16,0

D. THE NETHERLANDS

1. FOEKE SJOERDS, 157

Friesland 1765 20,0-24,0 (high yields on rich soils)

2. J. M. G. VAN DER POEL, (b) 96, 100 (calculated)

Friesland 1779 37,0-48,0 (excessive high yields on rich soils)

E. GERMANY

1. J. HEISIG, 113, 117 (calculated)

Estates in Silesia

Giersdorf		Kynast	
1699-1700	2,7	1751-60	2,7
1701-9	3,2	1761-70	3,0
1712	4,5	1771-80	3,1
1751-60	3,7	1781-90	4,5
av.	3,7	1791-1800	4,0
		av.	3,5

2. G. HANSEN, 413-414

Estates in Schleswig-Holstein

Year	Rundhof	Drüllt
1712	6,4	-
1725	5,4	-
1734	-	7,6
1735	5,7	8,6
1746	7,4	6,6
1750	8,3	7,7
1755	-	3,7
1765	6,6	5,9
av.	6,6	6,7

3. J. ŠOLTA, 103 table 7, 166 table V, 168 table VII, 208-211 table IX

Estates in Lusatia, Saxony

Year	Rammenau	Deutschbaselitz	Kuckau and Panschwitz
1715	-	-	3,4 ¹⁾
1716	-	-	1,9
1717	-	-	1,5
1718	-	-	2,7
1746	3,8	-	-

¹⁾ Kuckau, Panschwitz, Kriepitz and Laske

(Continued)

Year	Rammenau	Deutschbaselitz	Kuckau and Panschwitz
1748	3,3	—	—
1751	3,7	—	—
1752	4,1	—	—
1754	3,8	—	—
1755	3,3	—	—
1757	6,1	—	—
1758	6,3	—	4,0
1759	6,4	—	4,9
1760	—	3,6	5,2
1761	3,7	3,4	3,3
1762	5,4	—	3,7
1763	—	—	5,0
1765	5,1	—	—
1775	1,9	—	—
1777	4,0	—	—
1778	2,2	—	—
1779	—	—	4,9
1780	—	—	4,8
1781	—	—	4,3
1782	—	3,4	3,7
1783	—	5,7	3,4
1784	—	3,6	5,8
1785	—	5,1	3,3
1786	—	3,1	3,7
1787	—	3,7	3,7
1788	—	3,3	3,8
1789	—	—	3,8
1790	—	6,2	3,5
1791	—	4,3	6,1
1792	—	3,9	4,3
1793	—	2,4	4,1
1794	—	—	3,2
1795	—	—	4,6
1796	—	—	4,1
1797	—	—	3,8
1798	—	—	4,3
1799	—	—	5,1
av.	4,2	4,0	4,0

Yields of some cloister-villages

Villages	1772	1789	1792	1794	av.
Kuckau	—	3,6	3,3	2,6	3,2
Jauer	—	2,8	3,5	2,0	2,8
Auschkowitz	—	3,4	4,0	1,9	3,1
Crostwitz	—	2,7	2,8	2,1	2,5
Caseritz	—	2,4	3,3	—	—
Kaschwitz	—	2,8	3,0	—	—
Glaubnitz	—	2,6	3,2	—	—
Jesau	2,6	3,1	—	—	—

4. O. BÖHME, 92

Estates near Dresden

Ostra		Gorbitz		Lohmen	
1720	3,9	1791	5,0	1777-9	4,2
1730	5,6			1789	3,2
1750	6,4			1799	1,8
1760	8,2			av.	3,1
av.	6,0				

5. E. WASCHINSKI, I 91-93, II 126-129, 142-143

Estates in Schleswig-Holstein

Year	Oppendorf	Schönhorst	Bürau
1726-7	3,6	3,6	-
1728-9	7,4	4,9	3,8
1729-30	10,0	6,6	9,1
1730-1	-	-	3,6
1731-2	-	-	8,5
1732-3	-	4,2	6,7
1733-4	-	-	6,4
1734-5	-	-	5,0
1735-6	3,3	6,3	6,0
1736-7	10,2	5,9	4,1
1737-8	7,8	8,6	-
1738-9	5,3	4,4	3,0
1739-40	5,2	7,3	5,9
1740-1	8,1	7,3	-
1741-2	6,0	7,3	-
1742-3	7,7	7,0	9,0
1743-4	8,9	6,3	8,0
1745-6	-	-	8,0
1746-7	-	-	7,0
1747-8	-	-	5,0
1748-9	-	-	6,9
1749-50	10,0	7,0	8,2
1750-1	8,5	6,5	7,1
1751-2	9,5	7,0	9,0
1752-3	8,0	6,0	5,5
1753-4	6,5	-	-
1754-5	6,0	8,0	-
1755-6	6,0	6,0	-
1756-7	-	6,0	-
1757-8	8,1	7,2	6,3
1758-9	9,0	8,5	-
1759-60	7,0	6,0	-
1760-1	7,5	5,5	-
1761-2	8,0	6,0	-
1762-3	8,0	5,0	-
1763-4	9,2	10,0	-

(Continued)

Year	Oppendorf	Schönhorst	Bürau
1764-5	6,8	5,0	-
1765-6	7,0	6,0	-
1766-7	7,7	4,7	-
1767-8	5,3	5,9	-
1769-70	9,0	6,0	7,0
1770-1	6,0	5,5	-
1771-2	7,0	4,5	-
1772-3	7,0	6,5	-
1773-4	5,0	4,0	-
1774-5	4,0	4,0	-
1775-6	5,0	4,5	-
1776-7	9,5	6,5	-
1777-8	6,0	5,5	-
1778-9	5,0	4,0	-
1779-80	9,0	5,0	-
1780-1	5,7	5,0	-
av.	7,1	6,0	6,5

6. D. SAALFELD, 94, 163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover

Lucklum

1734-9	5,7
1740-5	5,4
1764-5	2,9
1783-8	5,4
1789-94	5,8
1975-1800	7,0
av.	5,4

Yields of some other estates

Waake, near Göttingen		Altenrode/Drübeck, near Wernigerode	
1751-80	5,8	1761-90	3,6
1781-1800	5,4	1791-1810	5,1

7. P. VON HEDEMANN, 182

Hemmelmarck, near Eckernförde, Schleswig-Holstein

1738-52	3,0
	5,0
	7,0
	9,0
av.	6,0

Rye, 18th century

8. W. BOELCKE, 142-143

Estates in Upper-Lusatia

1766	
Drauschkowitz	2,7
Gaussig	2,6
Diehmen	3,4
Medewitz	2,6

9. G. LANGE, 49

Bersdorf, Silesia

1770-80	5,2
1780-90	4,2
1790-1800	5,3
av.	4,9

10. C. G. ANTON, 192

Oberneundorf, near Görlitz, Lusatia 1787 4,0-6,0

11. J. N. VON SCHWERZ, (d) I 288

Near Dortmund 1788-1818 12,3

12. W. ABEL, 318

Eastern Germany, on some estates 18th century 10,0-12,0

F. SWEDEN

1. E. F. HECKSCHER, II 2, tabellbilaga, p. XVII

Year	Skarhult Scania	Rydboholm Uppland	Löfstad Östergötland
1724	3,6	-	-
1725	4,3	-	-
1726	3,0	-	-
1727	6,3	-	-
1728	10,9	-	-
1729	4,7	-	-
1730	3,8	-	-
1731	3,8	5,0	-
1732	5,1	4,5	-
1733	5,1	5,4	-
1734	2,5	5,3	-
1735	2,3	3,8	-
1736	10,1	5,0	-
1737	3,8	5,4	-
1738	7,1	3,4	-
1739	3,3	6,0	-
1740	2,6	8,5	-
1741	2,8	5,3	-
1742	2,7	5,9	-

(Continued)

Year	Skarhult Scania	Rydboholm Uppland	Löfstad Östergötland
1743	6,9	5,2	—
1744	4,0	7,8	—
1745	2,0	6,7	—
1746	6,3	8,1	—
1747	4,0	8,0	—
1748	4,6	7,5	—
1749	12,9	6,5	—
1750	12,8	8,7	—
1751	16,3	7,0	—
1752	9,7	10,5	—
1753	20,6	12,0	—
1754	9,9	13,7	—
1755	6,7	9,0	—
1756	12,8	11,7	—
1757	16,8	10,1	—
1758	26,4	20,0	—
1759	10,9	16,1	—
1760	1,12	15,4	8,0
1761	5,1	11,0	6,1
1762	3,6	13,9	—
1763	8,3	10,2	—
1764	5,3	9,5	9,0
1765	7,2	12,0	6,2
1766	5,6	9,5	—
1767	9,9	10,4	—
1768	2,5	6,7	4,3
1769	6,9	8,6	12,5
1770	6,6	—	9,2
1771	6,0	—	8,6
1772	—	—	8,2
1773	—	—	8,7
1774	—	—	11,5
1775	9,8	—	8,1
1776	11,1	—	13,5
1777	7,2	—	10,1
1778	6,3	—	8,8
1779	—	—	11,5
1780	—	—	7,7
1781	—	—	6,8
1782	—	—	8,2
1783	—	—	3,6
1784	—	—	11,3
1785	—	—	7,4
1786	—	—	5,0
1787	—	—	10,2
1788	—	—	6,9
1789	—	—	8,2
1790	—	—	8,5

Rye, 18th century

(Continued)

Year	Skarhult Scania	Rydboholm Uppland	Löfstad Östergötland
1791	—	—	6,1
1792	—	—	5,1
1793	—	—	7,0
1794	—	—	5,9
1795	—	—	11,4
1796	—	—	8,1
1797	—	—	7,6
av.	7,4	8,7	8,2

G. CZECHO-SLOVAKIA

1. F. LOM, 169 table III

Estates in Bohemia

Krumlov (winter-rye)		(spring-rye)		Lovosice	Třeboň
1701-50	3,2	2,5		2,6	1726-50 2,7
1751-1800	3,4	2,4		3,6	1751-1800 3,8

H. POLAND

1. A. WYCZANSKI, 589 (calculated)

Estate of Korczyn

1765	2,4
1789	3,4

I. LITHUANIA

1. W. CONZE, 195-196

Villages near Grodno

Zverinec	18th cent.	3,0
Kamen	18th cent.	3,0
Chmelniki	18th cent.	3,5
Generally		3,0

J. LATVIA

1. E. DUNSDORFS, 189 (calculated)

1786 3,9 (estimation of total produce of Vizdeme)

Quoting H. VON JANNAU, *Geschichte der Sklaverey und Charakter der Bauern in Lif- und Ehstland*, 1786, 309:

18th century	5,0 (on good soil)
	3,1 (on poor soil)

2. O. LIIV, 160, quoting A. W. HUPEL, *Topographische Nachrichten von Lief- und Ehtland*, I (1774) 98-99; II (1775) 201, 230-233, 261-267, 282-288, 296

18th century	5,0-10,0
	6,6-10,0

- E. DUNSDORFS, 140, quoting the same book

18th century	6,0-12,0 (high yield)
	9,0-20,0 (newly fallowed land)

- O. LIIV, 160, quoting H. VON HAGEMEISTER, *Materialien zu einer Geschichte der Landgüter Livlands*, I (1836) 13-14

1750-99	6,0 (on good soil)
	12,0 (very high yield)
	9,0-20,0 (newly fallowed land)

K. ESTONIA

1. O. LIIV, 160

1750-99	10,0-12,0 (on good soil)
	6,0- 8,0 (average)
	3,0- 5,0 (poor soil)

- O. LIIV, 160, quoting A. VON GERNET, *Geschichte und System des bauerlichen Agrarrechts in Estland*, 1901, 42-45

The end of the 18th century 4.3

L. RUSSIA

1. F. G. SAFRONOV, 190-193 (calculated)

Districts in Siberia near the rivers Angara and Lena

1701	
Jandinsk, Angara	6,2
Ust'-Kutsk, Upper Lena	10,0
Orlensk, Upper Lena	9,3
Tutursk, Upper Lena	4,3
Ilginsk, Upper Lena	10,7
Birjul'sk, Upper Lena	10,8

2. F. I. REZNIKOV, 95-96

Villages on the Lower Dvina in the district of Velikij Ustjug

Morozovica, Straškovo and Korjakina	1710	4,0-10,0
Villages of the cloister of Troiče-Gledenskij	1710	7,0
Cloister of Cholmogorsk	1729	7,0

3. A. I. BARANOVIČ, 423

Demesnes in South Wolhynia

1748 (year of crop-failure)			
Černoostrovskij	1,4	Dzvinjačkij	2,0
Voitoveckij	2,5	Zaliseckij	3,5
Kupel'skij	0,3	Gorynskij	1,8
Ožigoveckij	0,8	Podgaičičkij	3,9
Verboveckij	0,7	Borščovskij	3,7
Gnidavskij	1,9	Snigiroveckij	2,2
Fed'koveckij	2,2	Lozovskij	1,8
Mlynoveckij	2,4	av.	1,8

4. J. BLUM, 5

Russia 1759-86 3,0-5,0

5. A. M. RAZGON, 206, 233

Demesne Ivanov, Vladimir 1782 2,0

65 villages of the demesne Ivanov, 1791

32 villages	2,5
22 villages	3,0
9 villages	3,5
2 villages	4,0
av.	2,9

Districts	1788	1796
Vladimir	3,0—	4,0—
Suzdal'	3,0—	2,0
Jur'ev-Pol'skij	2,0—	2,0—
Perejaslavl'-Zalesskij	3,0—	2,0—
Murom	6,0	2,0+
Šuja	3,0	1,0
Vjazniki	5,0+	1,0+
Sudogda	4,0—	2,0
Melenkov	4,0+	2,0+
Pokrov	1,0+	1,0
Kovrov	3,0—	1,0
Gorochovec	3,0	2,0—
Aleksandrov	2,0	1,0
Kiržač	2,0+	2,0—
av.	3,0+	1,5+

IX. NINETEENTH CENTURY (-1820)

A. FRANCE

1. STATISTIQUE AGRICOLE, 58, 172-173, 178, 197, 212, 223-224, 229, 238, 243, 252, 283-284, 309, 366-367, 385, 389, 394, 400-401, 432, 479, 505, 517, 569, 573

Arr.		Yields			
		average	high	moderate	low
Briançon	1812	5,0			
Châtillon-sur-Seine	1812	2,5			
Dinan	1812		15,0	6,0	4,0
Montélimar	1812	5,0			
Nyons	1812	5,0			
Valence	1812	4,5			
Chartres	1812		14,7-16,0	12,0-13,3	8,0-9,7
Chateaudun	1812		8,0	6,0	2,0-3,0
Dreux	1812	6,0-7,0			
Quimper	1812	10,0			
Redon	1814	4,0-5,0	6,0		
Rennes	1814	6,0			
Wassy	1812		6,0	5,0	4,0
Clamecy	1812		6,0	4,0	2,5
Cosne	1812	5,0			
Nevers (Loire, Allier)	1812	6,0-8,0			
- (Amognes)	1812	4,0-5,0			
- (elsewhere)	1812	3,0			
Tarbes	1812		7,2	5,8	4,0
dép. du Rhône	1816	6,0			
Corbeil	1812	6,0			
Rambouillet	1812	3,0-15,0	(winter-rye)		
	1812	2,9-13,7	(spring-rye)		
Melle	1814	9,0			
Bellac	1812	4,5			
Limoges	1812	4,0-5,0			

2. A. PLAISSE, 570

Arr. de Louviers 1812 7,0

3. G. CASTELLAN, 191-192

Arrondissement de Lyon cantons de:		Arrondissement de Villefranche cantons de:	
1815-1830			
Lyon	8,0-10,0	Anse	5,0-7,0
L'Arbresle	4,0	Beaujeu	4,0
Sainte-Colombe	4,0	Belleville	3,0-4,0
Givors	4,0	Bois d'Oingt	4,0

(Continued)

Arrondissement de Lyon cantons de:		Arrondissement de Villefranche cantons de:	
Limonest	5,0	Saint-Nizier	3,0-4,0
Neuville	5,0	Monsols	2,0-3,0
Mornant	3,0	Tarare	3,0
St-Genis-Laval	6,0-10,0	Thizy	3,0
Saint-Laurent	3,0	Villefranche	5,0
St-Symphorien	3,0- 5,0	av.	5,0
Vaugneray	3,0- 5,0		
av.	5,0		

B. BELGIUM

1. J. N. SCHWERZ, (a) 1311

Villages in Flanders

1802-3	
Edegem	21,7
Waarloos	12,0
Ekeren	13,3
Oordam	12,0
Stabroek	20,0
de Kempen (Brab.)	12,0
Voorde	18,3
Aalst	18,0
Melle	20,0

2. M. FAIPOULT, 115 (calculated)

Dép. de l'Escaut	1805	17,5-20,0
		15,5-17,5 (late sown)

C. THE NETHERLANDS

1. J. M. G. VAN DER POEL, (a) (calculated)

1800	
Beemster, North-Holland	12,5-15,0
Franeker, Friesland	14,0-17,5
	28,0-35,0 (high yield)
Langstraat, North-Brabant	6,0- 7,5
Etten, North-Brabant	3,5- 9,0
Almelo, Overijssel	6,0- 7,0

2. F. J. B. D'ALPHONSE, 174-175 (calculated)

1812	
The whole country	8,5 (average)
	12,0 (high yield)
	6,0 (low yield)

3. FR. ARENDS, III 49

Drente 1820 6,0

D. SWITZERLAND

1. J. N. SCHWERZ, (c) 198 tables a, b and c (calculated)

School of Fellenberg at Hofwyl, near Berne

1810-1	21,4
1811-2	23,8
1812-3	10,4
av.	18,5

E. GERMANY

1. J. ŠOLTA, 168-189 table VII, 208-211 table IX

Estates in Lusatia, Saxony

Yields of some cloister-villages

Kuckau and Panschwitz

1810

1800	4,6	1810	4,7	Kuckau	3,4
1801	4,7	1811	3,3	Jauer	2,7
1802	4,1	1812	4,5	Auschkowitz	2,2
1803	4,1	1813	4,3	Crostwitz	4,0
1804	2,5	1814	4,4	Caseritz	2,2
1805	4,9	1815	4,5	Kaschwitz	3,7
1806	4,6	1816	3,7	Glaubnitz	2,1
1807	3,8	1817	4,4	Jesau	2,7
1808	3,8	1818	4,8		
1809	2,4	1819	5,2		
		1820	6,2		
		av.	4,3		

2. J. HEISIG, 113, 117 (calculated)

Kynast, Silesia

1801-10	4,0
1811-20	4,1

3. G. LANGE, 49

Bersdorf, Silesia

1800-10	5,1
1810-20	5,0

4. O. BÖHME, 92

Estates near Dresden

Ostra		Gorbitz		Lohmen	
1799-1807	6,5	1820	7,5	1820	6,4
1809	8,0				

Rye, 19th century

5. D. SAALFELD, 163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Lucklum, near Wolfenbüttel 1801-7 4,3

6. J. N. SCHWERZ, (b) 166 table VII

Pfeddersheim, Rhine Palatinate

1803	20,6
1804	14,5
1805	16,3
1806	16,5
1807	20,7
1808	17,0
1809	22,0
1810	16,0
1811	7,5
1812	20,3
av.	17,1

7. H. W. FINCK VON FINCKENSTEIN, 214

Averages of the Prussian provinces

1807	
East-Prussia	4,0
West-Prussia	5,2
Brandenburg	4,8
Pomerania	4,3
Posen	5,0
Silesia	4,8
Saxony	5,7
av.	4,8

8. H. CH. PH. KIESEWEITER, 97-98, 105, 106, 114

Estates in Schleswig-Holstein

1807		
Frosenburg, Oldesloe		6,0
		5,0-10,0
Rixdorf, Plön	formerly	4,5
	now	5,1
Meyerhof Tramm, Plön	formerly	3,9
	now	5,5
Probstei Preetz		12,0

9. FR. ARENDS, I 188, 195, 200, 219, 302, 353, 387-388 (calculated), 391, 400, 403, 406, 429, 453, 457; II 26, 48, 63 (calculated), 79, 132, 159, 244, 252, 271, 283 (calculated), 298; III 47, 59, 60

1818-20	
Reiderland	13,0
Weninger Moor, Georgiwold	7,6
	8,0
Wymeer	8,0- 8,7
Oberledingerland	10,7
sandy soil	5,3-10,7
Amt Emden, rich soil	14,7
moderate soil	10,7
poor soil	4,7
Amt Pewsum	14,7
Amt Aurich	10,7-18,7
Lezendorf	8,0
Uppgant	10,0-16,0
southern part	8,0-12,0
Strackholt	6,0- 8,0
villages near Aurich	6,0- 8,0
Blokhaus	6,7- 8,0
villages near Norden	14,0
Amt Berum, sandy soil	8,0-10,7
rich soil	12,0
Amt Esens, sandy soil	8,0
rich soil	14,0
Amt Wittmund,	
rich soil	14,0
moderate soil	9,0
Amt Friedeburg	12,0-14,0
Amt Stikhausen, sandy soil	5,3- 8,0
Harlbucht	16,0
Alt- und Neubunderpolder	13,3
Landschafts- und Heinitzpolder	19,0
Sande, Amt Jever	12,0-16,0
Sillenstede, good soil	8,0-10,0
moderate soil	5,0- 7,0
poor soil	3,0- 4,0
Amt Minsen	10,7-26,7
Amt Tettens	16,0-18,7
Knyphausen	6,2-11,0
Generally in good years	8,0
Average of 33 yields on clay soils:	
rich soil	12,4
good soil	9,8
moderate soil	4,4- 7,1
On sandy soils,	
generally	6,0
sometimes	8,0
heavy manured	10,0-12,0
poorly manured	3,0- 4,0

F. DENMARK

1. H. CH. PH. KIESEWETTER, 140

Alsen 1807 8,0

G. SWEDEN

1. J. HILLSTENIUS, 106-107 (calculated, sowing-seed and harvests of whole Sweden)

Average of whole Sweden					
1802	5,2	1809	7,2	1816	6,8
1803	6,1	1810	6,6	1817	6,1
1804	5,7	1811	5,4	1818	5,8
1805	5,7	1812	6,0	1819	7,0
1806	5,1	1813	6,1	1820	7,2
1807	5,9	1814	5,9	av.	6,1
1808	5,8	1815	5,8		

2. G. UTTERSTRÖM, I (1957) 201 table 11, 203 table 12 (calculated, Utterström gives harvests minus sowing-seed)

Björnö in Uppland					
1803	5,7	1809	6,7	1815	6,3
1804	6,3	1810	6,0	1816	9,2
1805	5,7	1811	6,7	1817	8,2
1806	4,9	1812	6,1	1818	7,4
1807	4,4	1813	5,1	1819	9,0
1808	5,7	1814	7,1	1820	11,0
				av.	6,7

Bysta in Närke (reliable?)

1816	10,3
1817	10,5
1818	11,9
1819	15,2
1820	17,8
av.	13,1

H. CZECHO-SLOVAKIA

1. F. LOM, 169 table III

Estates in Bohemia				
Krumlov	1801-50	4,8	spring-rye	2,7
Lovosice	1801-50	6,4		
Třeboň	1801-50	5,0		

I. RUSSIA

1. J. BLUM, 5

Russia, in the Black Earth	1802	4,4 (average) 8,0 (sometimes)
Russia, forest zone	1802	14,0-16,0 (very high yield) 3,0

BARLEY

I. NINTH CENTURY

A. FRANCE

1. PH. GRIERSON, 461; see B. H. SLICHER VAN BATH, (a) 76 (supposition); G. DUBY, (d) 85; DUBY's yield ratios: 1,6; 2,2; 1,5; 2,0 are not correct, as he calculates harvests minus sowing-seed

810

Annappes, near Lille	2,6
Vitry, near Douai	3,2
Cysoing, near Lille	2,5
Somain, east of Douai	3,0

II. TWELFTH CENTURY

A. FRANCE

1. G. DUBY, (a) 138

Saint-Martin-des-Vignes, near Cluny 1155-6 2,5

III. THIRTEENTH CENTURY

A. GREAT BRITAIN

1. ANONYMOUS HUSBANDRY, 71

Thirteenth century in England 8,0

2. W. H. BEVERIDGE, 161 table III B

Manors	Counties	1200-1249	1250-1299
Nailsbourne*	Somerset	—	3,5
Downton*	Wilts.	4,5	2,5
Witney	Oxon.	4,4	3,9
Wargrave	Berksh.	5,6	3,8
Wycombe	Bucks.	4,7	3,5
Ecchinswell*	Hants (N.)	4,4	4,1
Overton*	Hants (Mid.)	4,1	3,6
Meon*	Hants (S.)	3,9	3,6
Esher	Surrey	3,1	2,8
av. 5 manors (*)		4,3	3,5
av. 9 manors		4,4	3,5

3. J. A. RAFTIS, 164-167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire

Year	Upwood	Wistow	Warboys	Elton	Broughton and Ripton Regis
1244	-	-	-	-	7,0
1247	6,5	7,8	-	-	-
1250	7,1	7,2	10,7	-	6,9
1252	10,5	7,0	-	-	7,6
1254	-	-	6,9	-	-
1286	-	-	-	4,5	-
1297	-	4,5	-	4,1	-
1299(?)	4,0	-	-	-	-
av.	7,0	6,6	-	-	7,2

4. A. BALLARD, 459 (calculated on the base of the quantities of sowing-seed mentioned on p. 448)

Manors in Oxfordshire

Year	Bladon	Combe	Handborough	Wootton
1243	4,1	1,7	2,7	1,9
1244	3,7	0,4	8,0	5,0
1245	5,1	3,5	5,2	4,7
1246	3,9	4,0	4,7	3,0
1247	4,7	5,1	3,9	4,9
1248	4,6	3,0	4,0	4,7
1249	5,1	3,7	3,9	5,0
1263	2,5	-	-	-
1277	-	5,6	-	3,1
1278	-	2,2	-	2,7
1282	-	-	5,5	-
1283	-	-	4,5	-
1289	-	8,5	-	3,7
1294	-	7,0	-	5,5
av.	4,2	4,1	4,7	4,0

5. R. LENNARD, 16, 18 n. 3 and 4

Cronal, Hants	1248	5,0
Sutton, Hants(?)	1248	4,7
Basingstoke, Hants	1281	4,7

6. F. M. PAGE, 329 appendix II

Oakington, near Cambridge

1272	6,3	1291	2,4
1282	6,5	1292	4,2
1283	5,0	1297	5,0
1290	4,2	1298	3,7
		1299	6,1
		av.	4,8

7. F. G. DAVENPORT, 29 n. 12 and appendix VIII, p. XXXVI-XXXVII;
R. LENNARD, 16, 20 n. 1

Forncett manor, near Norwich

1273	2,9
1280	2,5
1290	4,2
1293	3,6
av.	3,3

8. M. W. FARR, 53-173 (calculated)

Manors of Sevenhampton and Stratton, Wiltshire
(from 1276 manor of Sevenhampton only)

1274	6,4	1282	7,2
1275	5,4	1283	4,7
1276	7,4	1284	7,7
1277	3,5	1285	4,5
1278	6,9	1286	4,9
1279	6,1	1287	5,2
1281	4,4	1288	7,6
1274	3,7 (drage)	av.	5,8

9. M. MORGAN, 102 (calculated)

Blakenham, near Bury St. Edmunds

1295	3,6
1298	2,5
1299	2,3
av.	2,8

10. F. B. STITT, 40-41 table 3 (calculated)

Demesne at Lenton, Nottinghamshire 1297 3,3

IV. FOURTEENTH CENTURY

A. GREAT BRITAIN

1. W. H. BEVERIDGE, 161 table III B

Manors	Counties	1300-1349	1350-1399
Nailsbourne*	Somerset	4,9	4,7
Downton*	Wilts.	3,9	3,8
Witney	Oxon.	4,2	3,3
Wargrave	Berksh.	4,2	4,1
Wycombe	Bucks.	2,9	4,2
Ecchinswell*	Hants (N.)	3,5	4,2
Overton*	Hants (Mid.)	3,2	3,9
Meon*	Hants (S.)	3,5	3,4
Esher	Surrey	2,7	2,4
av. 5 manors(*)		3,8	4,0
av. 9 manors		3,7	3,8

2. F. M. PAGE, 329 appendix II

Oakington, near Cambridge

1305	4,3
1308	2,4
1320	7,1
av.	4,6

3. F. G. DAVENPORT, 29 n. 12 and appendix VIII, p. XXXVI-XXXVII; R. LENNARD, 21

Forncett manor, near Norwich

1300	4,6
1303	3,0
1304	4,1
1306	3,9
av.	3,9

4. J. A. RAFTIS, 164-167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire

Year	Upwood	Wistow	Warboys	Elton	Broughton	Broughton and Ripton Regis
1302(?)	3,4	—	—	—	—	—
1306	6,2	—	—	—	—	—
1307	—	7,2	7,4	—	—	—
1310	—	—	—	—	—	2,4
1311	—	2,8	—	6,4	—	3,0
1312(?)	6,6	—	—	—	—	—
1313	—	—	—	5,2	—	—
1318	—	4,3	6,9	—	3,2	—
1319	6,7	—	—	—	—	—
1324	3,7	—	19,4(?)	6,4	—	—
1326	6,0	—	—	—	—	—
1328	—	—	2,0	—	—	—
1335	—	4,0	4,5	—	—	—
1342	—	—	10,0	—	8,8	—
1343	5,4	—	—	—	—	—
1345	—	—	—	4,7	—	—
1346	—	6,7	—	—	—	—
1349	—	—	—	1,8	—	—
1350	—	—	—	2,0	—	—
1351	—	7,1	—	—	—	—
1378	—	—	—	—	6,3	—
1380	—	—	—	—	4,1	—
1385	12,7(?)	—	—	—	—	—
1386	5,7	—	—	—	5,4	—
1392	6,8	—	—	—	5,4	—
av.	6,3	5,3	8,4	4,4	5,5	—

Barley, 14th century

Id., 176, 178 table XXXVII, yield ratios (responsio)

Huntingdonshire

Year	Up-wood	Wistow	Warboys	Elton	Broughton	Abbots Ripton	Houghton	Slepe	Holywell
1324	4,5	-	-	6,0+	-	6,7	-	-	5,5
1342	-	-	-	-	2,0	6,0	-	-	-
1343	4,0+	-	-	-	-	-	-	-	-
1344	-	-	9,0+	-	-	-	-	-	-
1347	-	-	8,5+	-	-	-	-	-	-
1348	-	-	7,5-	-	-	-	-	-	-
1349	-	-	-	3,0-	-	-	-	-	-
1350	-	-	-	2,0-	-	-	-	-	-
1351	-	5,0+	-	-	-	-	-	1,5	-
1353	-	-	6,0-	-	-	-	-	-	-
1356	-	-	9,5+	-	-	-	-	-	-
1359	-	-	11,5+	-	-	-	-	-	-
1360	-	-	11,0+	-	-	-	-	-	-
1363	-	-	5,5+	-	-	-	-	-	-
1364	-	-	-	-	-	5,3	-	-	4,5
1366	-	-	-	-	-	-	-	4,5-	-
1371	-	-	6,0-	-	-	-	-	-	-
1372	-	-	-	-	-	-	5,0+	-	-
1375	-	-	7,5+	-	-	-	-	-	-
1377	-	-	9,5-	-	-	-	-	-	-
1378	-	-	10,0+	-	4,5+	-	-	-	-
1379	-	9,0+	9,5+	-	3,0+	-	5,0-	-	-
1383	-	-	-	-	-	-	3,5+	-	5,0+
1385	-	-	-	-	-	1,0-	-	-	-
1386	-	-	-	-	4,5+	-	-	-	-
1387	-	-	-	-	-	-	1,5+	4,0-	-
1388	-	6,5-	-	-	-	-	3,5-	-	-
1389	-	-	-	-	-	-	4,0+	-	-
1390	-	-	-	-	-	6,0-	-	-	-
1392	-	-	-	-	6,0+	-	-	-	-
1393	-	4,5-	5,0+	-	-	-	5,5-	-	-
1394	-	4,5+	-	-	-	-	-	4,0-	-
1395	-	-	-	-	-	3,0+	4,0-	-	-
1396	-	-	-	-	-	5,0-	4,0+	-	-
av.	-	5,9	7,6	3,7	4,0	4,7	4,0	3,5	5,0

5. F. M. PAGE, 329 appendix II

Oakington, near Cambridge

1305	4,3
1308	2,4
1320	7,1
av.	4,6

6. A. BALLARD, 459 (calculated on the base of the quantities of sowing-seed mentioned on p. 448)

Manors in Oxfordshire		
Year	Combe	Wootton
1305	1,9	2,5
1306	1,5	2,7
1307	3,0	4,0
av.	2,1	3,1

7. J. E. THOROLD ROGERS, I 38-45; II 622-625 (calculated)

Cuxham, Oxon. 1317 1,9
3,2 (drage)

Manors	Counties	1334	1335	1336
Maldon	Surrey	3,0	3,9	3,1
Letherhead	Surrey	3,4	2,7	2,6
Farley	Surrey	3,1	3,7	3,9
Elham	Kent	3,4	3,0	7,0
Cheddington	Bucks.	6,3	4,5	5,4
Cuxham	Oxon.	5,2	4,6	—
Holywell	Oxon.	4,5	6,3	5,4
Basingstoke	Hants	2,4	2,0	3,3
av.		3,9	3,8	4,4
<i>Drage</i>				
Cambridge	Camb.	3,9	2,0	2,2
Gamlingay	Camb.	1,6	2,2	2,8
Cheddington	Bucks.	2,3	3,0	3,1
Wolford	Warwick	17,3	14,3	11,1 (doubtful)
Cuxham	Oxon.	4,6	4,1	2,8
Basingstoke	Hants	—	1,9	—
<i>Sprig</i>				
Letherhead	Surrey	2,4	1,8	—
Fairley	Surrey	3,4	3,0	1,9
<i>Haras</i>				
Maldon	Surrey	—	—	2,2
<i>Bericorn</i>				
Basingstoke	Hants	2,6	2,0	3,2

8. J. S. DREW, 32, 41 appendix (responsio)

Manors of St. Swithun's priory,
Winchester

Littleton	1324	4,0
Littleton	1325	3,0
Silkstead	1332	2,0

9. R. LENNARD, 21

Hawsted, Suffolk 1388 4,0

V. FIFTEENTH CENTURY

A. GREAT BRITAIN

1. W. H. BEVERIDGE, 161 table III B

Manors	Counties	1400-1449
Nailsbourne*	Somerset	4,1
Downton*	Wilts.	3,9
Witney	Oxon.	-
Wargrave	Berksh.	3,7
Wycombe	Bucks.	4,1
Ecchinswell*	Hants (N.)	5,0
Overton*	Hants (Mid.)	4,6
Meon*	Hants (S.)	3,9
Esher	Surrey	-
av. 5 manors(*)		4,3
av. 9 manors		4,1

2. J. A. RAFTIS, 176, 178 table XXXVII, yield ratios (responsio)

Huntingdonshire

Year	Wistow	Warboys	Holywell
1401	-	-	3,5
1402	-	-	3,0+
1403	3,5-	-	-
1404	-	6,5+	3,5
1405	-	-	6,0
1409	-	-	1,0
1413	-	4,0-	-
av.	-	-	3,4

3. J. SALTMARSH, 165

Grantchester, near Cambridge

1456	3,5	1463	4,0
1457	3,4	1464	2,9
1458	3,2	1465	1,8
1459	4,8	av.	3,4

4. J. E. THOROLD ROGERS, IV 39 (calculated on the base of the quantities of sowing-seed mentioned I 50)

Manor of the Canterbury Cathedral		
Adisham	ca. 1460	4,0

5. R. LENNARD, 25
Wistow, Huntingdon 1466 5,0

B. FRANCE

1. A. PLAISSE, 166, 168-169, tables 35-37 (of dubious value)
Cantaloup, Le Neubourg, Sainte-Vaubourg 1401-15 av. 3,5

C. THE NETHERLANDS

1. REKENING HERTOGELIJK BOUWHUIS, Hattem (account, calculated)
Hattem, near Zwolle 1418 3,8

VI. SIXTEENTH CENTURY

A. GREAT BRITAIN

1. J. CORNWALL, 56
Heighton St. Clair, Sussex 1562 2,8
2. J. E. THOROLD ROGERS, IV 745 (calculated on the base of the quantities of sowing-seed mentioned I 50)
Cuxham, Oxon. 1571-80 2,0.
3,0 (drage)
3. J. P. COOPER
Walton, Somerset ca. 1583 6,6 (estimation of expected yield)

B. THE NETHERLANDS

1. B. H. SLICHER VAN BATH, (b) 92

Hitsum, Friesland			
Winter-barley		Spring-barley	
1570-1	10,0	1571	11,0
1571-2	6,5	1572	6,0
1572-3	6,0	1573	10,0
av.	7,5	av.	9,0

C. GERMANY

1. O. KIUS, 141-143

Near Weimar

1528	3,6	1536	1,9	1544	3,6	1552	5,3
1529	2,6	1537	3,3	1545	4,9	1554	5,8
1530	2,2	1538	3,6	1546	5,3	1555	5,4
1531	2,3	1539	4,7	1547	5,0	1557	6,6
1532	6,3	1540	3,4	1548	4,5	1558	3,3
1533	2,9	1541	3,5	1549	5,1	1560	5,9
1534	2,6	1542	5,5	1550	6,2	1564	5,7
1535	3,9	1543	4,3	1551	6,1	av.	4,5

2. D. SAALFELD, 162-163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover

Wickensen		Wolfenbüttel		Gandersheim		Lucklum	
1540-1	1,6	1540-1	6,6	1579-83	5,9	1595-99	4,6
1579-83	5,6	1579-90	7,2				

3. H. H. WÄCHTER, 112 tables 10 and 11. Calculated on the base of the quantities of sowing-seed mentioned in table 10

East-Prussia

Average during the period 1550-1695

Balga	4,6	Weeskenhof	5,5
Carben	3,7	Behlenhof	3,8
Görlitz	4,9	Waldau	3,8
Mörlin	4,5	Schaaken	3,7
Grosser Hof	3,5	Memel	2,3
Kleiner Hof	3,6	av.	4,0

4. A. BACKHAUS, 204

Schmatzfeld, near Wernigerode, Harz 1552-7 4,6

5. E. BENINGA, 852; J. C. FREESE, 403

Legemohr and Addingaster Landen near Norden (new polder) 1559 60,0

6. O. BÖHME, 92

Ostra, near Dresden 1571 4,0

7. H. WISWE, 113

Wobeck, Lower Saxony 1580-1 4,1

8. J. ŠOLTA, 163 table II

Estates in Lusatia, Saxony

Villages Kuckau and
Panschwitz

1584	2,9
1585	2,1
1586	2,7
av.	2,6

D. DENMARK

1. H. H. FUSSING, (a) 104

Crown estates on Falster	1546	2,0
Sofieholm, Falster	1583	3,6

2. A. NIELSEN, 157 (calculated)

Three crown estates in North Zealand	1582	4,1
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E. POLAND

1. A. MAĆZAK, 100 table XIX

Estate in the Vistula fens

Year	Kałdowo	Laski	Wszystkie
1529	3,6	3,4	2,6
1530	1,5	1,7	1,7
1559	4,0	3,3	4,1
1560	1,6	4,5	3,0
1564	8,3	3,3	4,7
1570	2,7	1,6	2,9
1571	4,6	4,3	4,4
1575	3,3	4,2	3,7
1586-8	3,4	4,2	-
av.	3,7	3,4	3,4

2. A. WAWRZYŃCZYKOWA, (a) 99-124 tables 1-13

Estates of the Cracow Chapter in the voivodship of Sieradz

Estates	1552	'53	'54	'64	'65	'66	'67	'68	'69	'73	av.
Pabianice	-	10,0	3,5	4,4	4,7	3,3	7,3	9,5	6,9	5,9	6,2
Świątniki	5,3	3,5	1,0	3,6	4,3	2,0	3,0	2,6	4,8	7,8	3,8
Dobroń	-	-	-	2,2	2,0	2,7	4,4	4,4	4,4	4,5	3,5
Rzgów-Gospodarz	3,6	4,6	8,4	2,4	3,0	1,0	2,7	2,0	1,6	3,7	3,3
Górka Wielka	4,4	4,0	3,8	-	5,4	4,0	4,4	5,9	5,6	-	4,7
Wisłitno	0,8	1,4	5,3	6,7	4,5	2,8	4,3	6,8	5,7	4,0	4,2
Kurowice	0,4	1,3	5,8	1,7	2,4	2,5	5,2	-	5,0	5,2	3,3
Brojce	0,5	4,0	5,2	2,9	6,6	3,0	6,9	10,5	7,3	-	5,2
Dłutów	1,5	1,0	6,5	1,7	2,9	2,7	4,7	3,9	4,1	3,0	3,2
Average of these nine estates	-	-	-	3,0	3,7	2,5	5,0	5,2	4,8	4,5	-
Górka Mała lub Siekielów	-	5,4	1,6	5,0	-	5,2	-	-	4,5	-	4,3
Brus	-	-	-	-	3,4	2,4	-	-	3,7	-	3,2

Barley, 16th century

3. A. WYCZANSKI, 587

Estates in the Palatinate of Lublin	1564	6,8
Estates in the Palatinate of Mazowsze	1564	7,6
Villages of the town of Poznań	end 16th c.	5,7

Id., 589. (calculated)

Estate of Korczyn	
1564	5,5
1569	5,5

4. W. PRANDOTA 164-178, 184 tables 3-10, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1564	1570
Guzów	15,0	9,5
Kaski	5,6	9,0
Korabiewice	9,5	12,3
Czerwonka	6,6	8,6
Wola Szydłowiecka	12,7	10,0
Orzyszew	5,5	-
Miedniewice	5,7	-
Duchy of Oświęcim	7,6	-

5. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?)	av.
Stodoły	6,9	-	6,3	8,0	4,6	7,2	4,3	5,4	6,1
Sobótka	4,2	-	4,2	-	-	-	-	-	-
Janiszów	4,5	-	6,7	-	-	-	-	-	-
Makoszyn	5,8	-	5,0	5,0	-	2,0	5,4	-	4,6
Samorzec	5,3	-	7,0	7,0	5,0	4,0	4,8	3,9	5,3
Nisko	7,5	-	3,3	3,3	5,0	3,1	1,9	3,7	4,0
Góra	9,0	-	8,0	-	-	-	-	-	-
Strzegocice	17,0	-	8,1	-	-	-	-	-	-
Pławo	5,4	-	2,8	2,8	6,0	10,0	2,4	7,0	5,2
Tuszów	6,0	-	2,2	2,2	2,7	3,7	2,1	3,9	3,3
Połaniec	4,1	-	4,2	4,2	3,3	5,4	4,4	4,4	4,3
Strzegom	7,0	-	3,0	3,0	6,5	2,2	3,2	4,0	4,1
Osiek	7,3	-	5,0	5,0	7,0	4,0	2,1	2,6	4,7
Bukowa	6,2	-	3,0	3,0	7,2	1,6	6,7	3,8	4,5
Czajków	7,1	-	3,3	3,3	3,0	4,1	6,6	1,5	4,1
Chmielów	6,3	-	3,3	3,3	3,2	15,0	2,3	5,1	5,5
Mokrzyszów	10,0	-	3,9	3,9	4,4	2,7	4,4	8,3	5,4
Bugocice	9,4	-	10,7	-	-	-	-	-	-
Skotniki	5,4	-	5,4	-	-	-	-	-	-
Zagość	4,1	-	4,1	-	-	-	-	-	-
Konieczmosty	4,2	-	4,2	-	-	-	-	-	-
Strożyska	4,2	-	4,2	-	-	-	-	-	-
Sępiechów	5,6	-	5,6	-	-	-	-	-	-
Kocina	6,0	-	6,0	-	-	-	-	-	-

(Continued)

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?)	av.
Winiary	5,7	—	5,7	—	—	—	—	—	—
Mędrzechów	5,0	—	5,0	—	—	—	—	—	—
Gołębiów	7,5	4,5	5,0	—	—	—	—	—	5,7
Zwoleń	3,7	3,5	7,5	—	—	—	—	—	4,9
Tczów	5,8	3,7	7,5	—	—	—	—	—	5,7
Maków	5,5	2,7	5,0	—	—	—	—	—	4,4
Makowiec	8,4	4,7	4,5	—	—	—	—	—	5,9
Brzoza	5,0	8,4	7,2	—	—	—	—	—	6,9
Jedlnia	3,9	2,2	3,5	—	—	—	—	—	3,2
Gzowice	3,6	5,0	4,5	—	—	—	—	—	4,4
Klwatka	4,5	4,9	4,5	—	—	—	—	—	4,6
Wacyń	4,5	2,2	5,0	—	—	—	—	—	3,9
Mironice i Bielany	6,9	6,9	5,0	—	—	—	—	—	6,3
Kozienice	8,5	1,4	6,9	—	—	—	—	—	5,6
Gołąb	6,7	—	10,5	—	—	—	—	—	—
Stare Chęciny	9,8	—	9,6	—	—	—	—	—	—
Radkowice	5,2	—	5,8	—	—	—	—	—	—
Drugnia	9,1	—	7,5	—	—	—	—	—	—
Brzeziny	7,6	—	7,6	—	—	—	—	—	—
Gacki	4,2	—	4,2	—	—	—	—	—	—
Average of 45 estates	6,4	—	5,5	—	—	—	—	—	—

6. S. ŚRENIOWSKI, 111

Knyszyn	1561	1,5
		5,0
		5,5
av.		4,0

7. J. LESKIEWICZOWA, 19 table 2

Estates near Osieck	
1564	
Osieck	7,9
Żelazna	6,7
Wola Starogrodzka	9,3
Chrosna	6,9

8. J. OCHMAŃSKI, 387-388 tables 3-4

Estates near Kobryn	
1597	
Czerewaczycki estates	4,0
Wieżecki estates	3,9
Prużański estates	1,7
Kobryński estates	2,5
Czachecki estates	3,6
Horodecki estates	2,8
Moderate soil	3,2
Poor soil	2,9

9. A. WAWRZYŃCZYK, (c) 84 table XII
Peasant exploitation of royal estates in Masovia 16 th cent. 12,0

F. LATVIA

1. V. V. DOROŠENKO, 72-73

Riga	1548	0,9
Tiesenhausen	ca. 1585	5,0
Kalsnav	ca. 1585	3,0—
Marzen	ca. 1585	3,0—
Malpils	1590	2,5
Berzaun	1591	7,3 („in mistacker“)

2. A. SOOM, (a) 40

Berson (= Berzaun)	1582-92	5,7
Kalzenau (= Kalsnav)	1582- 7	4,0
Martzen (= Marzen)	1584-92	6,1
av.		5,3

G. RUSSIA

1. K. N. ŠČEPETOV, 129-130, table 6

Estates of the Iosifo-monastery at Volokolamsk in a region north of Moscow, 1592

Starca Makarija Rževskogo		Starca Vas'jana Temkina	
Ivanovskoe	6,4	Uspenskoe	1,9
Spasskoe	3,7	Ragušino	3,7
Sudnikovo	5,3	Belkovo	4,0
Kur'janovo	3,9	Lestvicyno	4,1
Gavrino	2,2	Vorsino	4,2
Zubovo	13,0	Šestakovo	4,2
Safatovo	3,5	Kondratovo	3,8
Rakitino	6,2	Ievlevo	5,6
Starca Jakoba Sokolova		Starca Nifonta Golodnogo	
Lukovnikovo	7,8	Očiščevo	6,0
Neverovo	4,4	Krjukovo	8,0
Koz'modem'janskoe	7,8	Bujgorod	6,3
Faustova Gora	5,3	Bykovo	4,4
Starca Antonija Akulova		Il'icyno	6,5
Balaškovo	8,9	Novoe	5,3
Ramenka	4,5	Oboburovo	5,0
Tryznovo	4,3	Veiny	5,3
Elinarchovo	30,0 (small area)		
Turovo	3,9		
Starca Feodosija			
Bužarovo	4,0		
Molečkino	3,9		
Retkino	1,5		
Gorbovo	0,7		
Savel'ev	6,0		
Mamošino	5,7		
Beli	1,4		
Angelovo	9,2		

VII. SEVENTEENTH CENTURY

A. GREAT BRITAIN

1. J. P. COOPER

Nibley, Gloucestershire		Arbury, Warwickshire		Kampsford, Gloucestershire	
1604	4,6	1607	6,2	1625	3,6
	7,0			1626	5,0
1605	3,2			1630	1,9
	4,6			1631	3,5
	4,7			av.	3,5
1607	2,8				
	3,4				
1608	4,0				
1613	4,1				
1614	5,1				
1615	4,0				
1617	3,6				
av.	4,3				

2. G. E. FUSSELL, (a) p. XVII, table III; B. H. SLICHER VAN BATH, (c) 94

Harwell, Berksh.

1612	7,4
1613	4,6
1614	8,7
1615	6,4
1616	7,4
1617	5,2
1618	8,1
1619	7,9
1620	8,4
av.	7,1

B. FRANCE

1. E. APPOLIS, 400

Lodève 1674 4,0 (paumelle)

C. THE NETHERLANDS

1. J. A. FABER, p. XXIV-XXV (calculated)

Het Bildt, Friesland	1604	7,0
	1608	5,8

D. GERMANY

1. D. SAALFELD, 162-163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover

Bahrdorf		Gandersheim		Wickensen	
1608-28	4,0	1602-9	4,4	1613-23	2,8
1637-48	1,6	1619-39	5,8	1634-44	2,7
1658-64	3,5	1649-59	5,8	1653-5	3,7
1684	0,6	av.	5,3	1663-4	2,8
av.	2,7			av.	3,0

Wolfenbüttel		Lucklum	
1600-11	7,7	1600-6	5,3
1620-31	7,1	1612-22	3,6
1650-61	6,9	1631-40	3,6
1670-82	6,9	1644-59	5,2
av.	7,1	1660-6	4,8
		1669-70	4,7
		av.	4,5

2. H. WISWE, 113

Estates in Lower Saxony

Mariental	1602	6,0 (spring-barley)
Walkenried	1604	5,0 (id.)
	1606	6,0 (id.)
Unseburg	1674	5,4
Hackenstedt	1683	3,5

3. G. HANSSSEN, 403-404, 413-414, 478

Estates in Schleswig-Holstein

Year	Rundhof	Drüllt	Koselau
1610	6,5	4,9	-
1611	5,3	5,4	-
1612	6,9	7,4	-
1634	-	-	4,9
1635	-	-	5,0
1690	5,8	4,8	-
av.	6,1	5,6	-

4. O. BÖHME, 92

Estates near Dresden

Lohmen		Gorbitz		Ostra	
1631-3	3,8	1651	4,4	1694-9	6,1
1642-7	5,4	1652	5,0		
1651	4,2	1653	4,5		
1680	3,7	1663	3,6		
av.	4,3	1673	5,9		
		1683	4,0		
		1693	1,7		
		av.	4,2		

5. J. ŠOLTA, 99 table 4, 163-165 table I-IV, 168-189 table VII

Estates in Lusatia, Saxony

Purschwitz		Gauszig	
1631	0,6	1648	3,8
1632	2,3	1649	2,9
		1650	3,8
		1651	2,8
Kuckau and Panschwitz		1652	2,4
1637	1,8	1653	3,6
1653	3,0 (only Kuckau)	1654	2,5
		1655	3,7
		1656	2,5
		1657	3,3
		av.	3,1

6. W. ACHILLES, 155. Calculated on the base of the money-value of the sowing-seed and the yield

Hedeper, near Wolfenbüttel 1632-90 6,6

7. W. KOPPE, 22 table IV

Estates near Oldenburg in Holstein

Year	Cismar	Körnack
1635	7,4	-
1636	8,2	-
1637	6,2	4,5
1638	5,5	2,6
1639	6,0	9,0
1640	7,6	6,1
1641	9,0	5,4
1642	9,8	6,0

Barley, 17th century

(Continued)

Year	Cismar	Körnack
1643	4,8	7,6
1644	4,6	5,5
1645	5,5	6,6
1647	3,4	4,4
1648	2,4	2,0
1649	4,8	3,5
1650	3,8	2,2
1651	4,7	3,2
1652	2,9	2,3
1653	6,0	4,4
av.	5,8	4,7

8. A. BACKHAUS, 205

Schmatzfeld, near Wernigerode, Harz

1960	2,5
1670	4,8

9. J. HEISIG, 113, 117 (calculated)

Estates in Silesia

Giersdorf	1688-92	2,9
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E. DENMARK

1. G. OLSEN, 439-446 table V, VI

43 estates over all Denmark

1610-1659	Yield ratios	Number of yields	%
	0,0-0,4	4	0,6
	0,5-0,9	30	4,3
	1,0-1,4	72	10,2
	1,5-1,9	99	14,1
	2,0-2,4	118	16,8
	2,5-2,9	125	17,8
	3,0-3,4	93	13,2
	3,5-3,9	65	9,2
	4,0-4,4	42	6,0
	4,5-4,9	24	3,4
	5,0-5,4	13	1,8
	5,5-5,9	8	1,1
	6,0-6,9	7	1,0
	7,0-7,9	3	0,4
	8,0-8,9	1	0,1
		704	100,0

Averages of five year periods

Estates	1610	1615	1620	1625	1630	1635	1640	1645	1650	1655	av.
	-14	-19	-24	-29	-34	-39	-44	-49	-54	-59	
<i>Zealand</i>											
Antvorskov	3,5	3,0	3,3	2,7	2,6	3,6	3,8	3,2	2,4	2,0	3,0
Lystager	—	—	—	—	2,3	3,0	3,5	2,5	2,2	—	2,7
Ny Ladegaard	2,3	2,1	2,7	3,4	2,3	2,6	2,4	—	—	—	2,6
Esrom	1,5	1,3	1,9	3,2	1,4	1,8	—	1,7	1,3	0,7	1,6
Abrahamstrup	—	—	—	2,2	2,5	—	—	—	—	—	—
Saebygaard	—	—	2,8	—	2,4	—	—	—	4,5	—	3,2
Ibstrup	—	—	—	3,7	2,3	3,9	2,5	—	—	—	3,1
Faurholm	—	—	—	2,3	1,5	1,4	—	—	—	—	1,7
Lille Ladegaard	—	—	—	1,8	1,8	1,9	2,4	—	—	—	2,0
Lekkende	3,1	2,4	2,9	2,2	2,4	—	—	—	—	—	2,6
Jungshoved	3,7	2,2	2,3	2,2	1,7	—	—	—	—	—	2,4
Sorø	3,1	2,5	3,1	2,3	2,6	3,6	3,8	4,1	—	—	3,1
Herlufsholm	3,3	3,3	—	—	3,0	3,0	2,7	4,5	3,1	2,8	3,2
Amager	2,6	1,8	—	—	—	—	—	—	—	—	—
Hørsholm	—	—	3,6	2,9	2,0	—	—	—	—	—	2,5
Ringsted	2,6	2,0	3,1	—	—	—	—	—	—	—	2,6
Vallø	—	—	4,6	4,2	3,6	4,0	—	—	—	—	4,1
Lellinge	—	—	—	4,6	—	3,1	—	—	—	—	—
<i>Lolland-Falster</i>											
Skjørringe	—	—	—	—	—	—	3,3	—	—	—	—
Korselidse	—	—	—	—	—	—	3,5	—	—	—	—
Halsted Kloster	—	—	—	—	—	—	3,4	—	—	—	—
<i>Funen</i>											
Tranekjaer	—	—	—	—	—	—	—	3,0	2,8	2,9	2,9
<i>Jutland</i>											
Skanderborg	1,0	1,8	1,3	—	—	—	—	—	—	—	1,4
Ring Kloster	0,9	1,1	1,5	—	—	—	—	—	—	—	1,2
Aakjaer	2,0	1,3	1,6	—	—	—	—	—	—	—	1,6
Kolding	2,0	2,8	2,0	—	—	—	—	—	—	—	2,3
Bjellerup	3,9	3,6	3,2	—	—	—	—	—	—	—	3,6
Møgeltønder	—	5,7	4,8	—	3,1	2,8	2,1	2,1	2,7	—	3,3
Lyngbækgaard	2,4	2,1	2,2	—	—	—	—	—	—	—	2,2
Aastrup	—	1,8	2,9	—	—	—	—	—	—	—	—
Hevringholm	—	—	—	—	—	—	—	—	—	3,5	—
Estruplund	—	—	—	—	—	—	—	—	—	2,3	—
<hr/>											
Maxima	Minima										
Vallø	1611	8,9		Skødegaard				1614	0,0		
Lellinge	1627	7,9		Skjørringe				1652	0,1		
Vallø	1627	7,0		Esrom				1657	0,1		
Møgeltønder	1616	7,0									

Barley, 17th century

2. H. H. FUSSING, (a) 104-105; H. H. FUSSING, (b) 79; G. OLSEN, 449

Royal and noble estates

Gessingholm, Jutland	Selsø, Zealand	1634	5,7
1643 3,0	Eskildsø, Zealand	1634	3,5
1646 2,5	Demstrup and Sodringsholm, Jutland	1629-60	3,1
1656 4,0	Skovgaard, Jutland	1638-53	3,6
1661 2,6	Skivehus, Jutland	1645	6,0-8,0
av. 3,0			

F. SWEDEN

1. A. NIELSEN, 158; H. H. FUSSING, (a) 104; G. OLSEN, 445 table VI, averages of five year periods

Royal estates in Scania

Hageløse (Nielsen)		Hageløse (Fussing)		Hageløse (Olsen)		Børringe	Lindholm
1619	1,5	1611-20	2,8	1610-4	3,1	2,7	4,0
1620	2,8	1621-7	3,4	1615-9	2,7	1,9	3,0
1621	2,6	1632-7	2,8	1620-4	3,0	2,6	4,4
1622	2,4	av.	3,0	1625-9	4,3	2,9	3,9
1626	4,1			1630-4	3,2	1,5	3,1
1627	1,2			1635-9	3,1	2,5	1,8
1632	3,3			1640-4	-	3,7	-
av.	2,6			av.	3,2	2,5	3,4

2. G. ENEQUIST, 64, table 20

Villages in Lower Lule valley, near Lulea

1642-6 (average)					
Avan	2,0	Boden	2,2	Svartbyn	3,7
Bålinge	3,3	Bredåker	2,3	Sävast	2,8
Gäddvik	4,0	Buddbyn	2,0	Unbyn	3,1
Hertsön	2,7	Heden	2,1	Vittjärv	2,1
Sunderbyn	4,3	Svartbjörnsbyn	1,8	Harads	4,0
av.	2,7			Svartlå	1,8

- G. ENEQUIST, 135 n. 40; J. WESTIN, 37

Ångermanland end 17th cent. 3,0-4,0

G. CZECHO-SLOVAKIA

1. F. LOM, 169 table III

Estates in Bohemia

Krumlov	1651-1700	3,9
Lovosice	1666-1700	3,6

H. POLAND

1. W. PRANDOTA, 164-177, 184 tables 3-8, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1603	1620	1630	1661	av.
Guzów	5,7	6,4	6,6	5,2	6,0
Kaski	4,9	5,8	7,0	4,4	5,5
Korabiewice	3,2	5,0	5,0	3,0	4,0
Czerwonka	-	7,5	7,0	4,0	6,2
Wola Szydłowiecka	-	-	-	4,4	-
Sokole	4,9	6,9	7,5	3,0	5,6
Duchy of Oświęcim	1616	7,6			
	1660	3,0			

2. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1602	1615	1611-5
Stodoły	5,0	-	3,7
Sobótka	-	4,2	-
Makoszyn	5,0	-	3,8
Samborzec	4,5	-	4,9
Nisko	4,6	-	3,8
Góra	-	8,3	-
Strzegocice	-	6,2	-
Plawo	5,8	-	4,2
Tuszów	5,2	-	3,2
Połaniec	3,1	-	3,3
Strzegom	5,3	-	4,2
Osiek	5,2	-	5,1
Bukowa	4,7	-	4,8
Czajków	2,5	-	2,5
Chmielów	4,1	-	2,2
Mokrzyszów	8,2	-	3,6
Bugocice	-	3,3	-
Skotniki	-	2,8	-
Zagość	-	3,4	-
Konieczmosty	-	5,2	-
Strożyska	-	4,2	-
Sępichow	-	4,8	-
Kocina	-	5,0	-
Winiary	-	5,1	-
Mędrzechów	-	5,1	-
Gołębiów	-	4,0	-
Zwoleń	-	7,5	-
Tczów	-	8,0	-
Maków ¹⁾	-	10,8	-

1) Of dubious value

(Continued)

Estates	1602	1615	1611-5
Makowiec	—	6,4	—
Brzoza	9,3	9,3	—
Jedlnia (1602-15)	—	—	3,7
Gzowice	—	2,5	—
Klwatka	—	4,5	—
Wacyń	—	8,0	—
Mironice i Bielany	4,9	4,9	—
Kozienice	5,6	5,1	—
Gołąb	—	3,7	—
Stare Chęciny	8,0	5,2	—
Radkowice	5,0	10,8	—
Drugnia	7,5	6,0	—
Brzeziny	—	3,2	—
Gacki	—	4,3	—
Average of 45 estates	—	4,7	—

3. A. WYCZANSKI, 589 (calculated)

Estate of Korczyn	
1615	4,1
1660	5,0

4. J. OCHMAŃSKI, 389 table 5

Estates near Kobryn

Czerewaczycki estates	1617	3,7
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5. S. ŚRENIOWSKI, 114

According to J. HAUR, *Oekonomika ziemiańska generalna*, 1675; and J. HAUR, *Skład sekretow gospodarskich*, 1693.

1675	3,0-4,0
1693	1,9-2,2

6. A. MĄCZAK, 100 table XIX

Estates in the Vistula fens		
Kałdowo	1675	2,0
Laski	1675	5,0

I. LATVIA

1. A. SCHWABE, 211

Estates in the Wolmar and Wenden districts

1624	1,5-3,3
1690	2,0-7,2, av. 4,1

2. E. DUNSDORFS, 137-141, 189

Estates in Vizdeme, N.W. Latvia

1682	5,9
1683	5,3
1684	4,8
1685	6,0
1686	5,0
1687	5,4
av.	5,4

Estimation of total produce (calculated)

1686-7	4,4
1688	6,0

J. ESTONIA

1. A. SOOM, (b) 75-79

200 estates over all Estonia

Number of estates	District	Period	Average yield ratio		
40	Harrien	1682-7	3,5		
30	Wierland	1682-7	3,6		
47	Jerwen	1682-7	4,0		
38	Wiek	1682-7	4,6		
15	Dorpat	1681-90	3,8		
13	Pernau	1681-90	4,1		
17	Ösel	1651-3	3,5		
Maxima			Minima		
Saastna	1683	12,0	Nüpli	1681-7	1,7
	1685	12,0	Kalina	1682-6	2,4
	av. 1682-5	9,1	Piivarootsi	1682-5	2,8
Libula	1682	7,1			
	av. 1682-5	5,8			
Vana-Antsla	1685	5,8			
	av. 1684-7	4,5			
Laiuse	1685	8,8			
	1689	8,0			
	av. 1682-9	4,3			

Yields of some other estates

Viljandi	1659-64	3,2	Pööravere	1678-80	2,6
	1682-7	3,4	Kõima		
Kuimetsa Kaiu and Nabala	1660-84	3,5	Koonga		
			Audru		

Barley, 17th – 18th centuries

2. O. LIIV, 161–165

Estates	1681	1682	1683	1684	1685	1686	1687	av.
Kolga, Kuusala	—	—	—	1,6	4,2	3,0	—	2,9
Kehtna, Rapla	—	—	3,7	4,8	2,3	3,2	—	3,5
Haiba, Hageri	4,3	3,5	2,8	1,1	4,2	—	—	3,2
Võhmata, Koeru	2,5	3,0	3,0	1,8	4,7	—	—	3,0
Albu, Madise	4,0	4,4	5,3	1,3	3,3	—	—	3,7
Lihula	4,8	7,0	5,8	3,3	6,8	—	—	5,5
Pühalepa	—	4,0	2,9	2,9	1,2	3,1	2,9	2,8
Ruila, Hageri	3,4	4,2	4,6	2,0	—	—	—	3,5

K. RUSSIA

1. Z. A. OGRIZKO, 30

Moscovy	
1639	2,7
1640	5,6

2. F. G. SAFRONOV, 190–193 (calculated)

Districts in Siberia near the rivers Lena, Angara and Ilim

1658	
Upper- and Lower Ilim	3,3
Ust'-Kutsk, Upper Lena	0,8
Lower Kirensk, Upper Lena	2,0

3. F. I. REZNIKOV, 95–96

Villages on the Lower Dvina in the district of Velikij Ustjug (Morozovica, Straškovo and Korjakina)

1678	4,0–5,0
1682	3,0–4,0

Cloister of Cholmogorsk 1685 4,0

VIII. EIGHTEENTH CENTURY

A. GREAT BRITAIN

1. A. YOUNG, (a) 53, 61, 65–66, 117, 122, 156, 168, 177–178, 180, 185, 202

1768			
Bury	7,0–9,3	Bruchalk-Romsey	7,0–8,0
Henningham	9,0	Aylesford-Alton	5,0
Braintree-Chelmsford	8,0	Alton-Farnham	8,0
Lanvachers-Newport	5,3–6,7	Gilford-Ripley	8,0–9,1
Newport	5,0	Ilford	13,3
Devizes-Salisbury	6,0		

2. A. YOUNG, (b) IV 230-234

1770

Hatfield-Welwyn	8,0	East Newton	7,0
Stevenage	9,0	Nunnington	9,6
Stevenage-Luton	6,0	Kirkleatham	20,0
Houghton, Dunstable	7,7	Mr. Turner	32,0
Milton, Dunstable	12,0	Schorton	16,0
Pagnel, Wooburn	6,0	Gilling, Richmond	15,0
Broughton	8,0	Rookby	8,3
Astwick, Newport	7,0	Kiplin	12,8
Biddenham	6,0	Swinton	6,7
St. Neot's-Kimbolton	6,0	Craickhill	11,2
Kimbolton-Thrapston	8,0	Sleningford	8,0
Casterton	8,0	Danby	12,8
Stamford-Grimsthorp	3,2	Mr. Scroope	20,0
Grantham-Newark	6,7	Raby-castle	14,0
Newark-Tuxford	8,0	Earl of Darlington	22,5
West Drayton	12,0	Morpeth	12,0
Bawtreay-Doncaster	9,3	Alnwick	10,0
Doncaster-Rotherham	8,0	Belford	20,0
Ecclesfield, Sheffield	9,1	Hetton	8,0
Woolley	7,0	Fenton	8,0
Leeds-Tadcaster	8,0	Rothbury	8,0
Wilbersfort, York	11,7	Cambo	7,8
Hatton, York	5,0	Glenwelt	10,7
Risby	10,9	Ascot, Carlisle	6,7
Stillingfleet	8,0	Penrith	10,0
Holderness	13,3	Keswick	6,7
Howden	8,0	Holme, Burton	6,7
Thorne	9,0	Kabers	6,7
Marquis of Rockingham's		Garslang	10,0
Kentish farm	10,0	Ormskirk	8,0
id. Hertfordshire	8,0	Altringham	8,2
Wentworth	13,3	Knotsford	13,3
Driffield	9,3	Shenston, Litchfield	11,4
Ganton	3,0	Aston, Birmingham	7,1
Brumpton	16,0	Hagley	10,0
Yeddingham	20,0	Bensington	12,8
		North Mims	6,0

3. A. YOUNG, (c) 243-245

1771

Hempstead	10,0	Gateford	12,0
Tring	6,0	Blythe	10,7
Blisworth	5,6	Wombwell, Swaith	13,7
Hazelbeece	12,0	Bootham	8,0
Glendon	8,0	Canwick	7,0
Mr. Booth, Glendon	22,4	Leverington	11,3
Quenby	8,5	Runcton, Lynn	9,3

Barley, 18th century

(Continued)

1771

Dishley	9,0	Snettisham	8,7
Radburn	11,0	Warham	12,0
Tiddswell	11,0	Aylsham	8,0
Chesterfield	9,0	Earlham	9,3
Lawton	8,0	Bracon Ash	10,7
Flegg	10,7	Isle of Wight	8,0
Bramford	10,7	Alresford	6,7
Hastead	6,0	Gilbury	7,0
Colchester	12,0	Chritchill	4,8
Youngsberry	7,5	Moreton	6,0
Beaksburn	9,3	Came	4,4
Thanet (drilled)	16,0	Taunton	6,7
Hawkhurst	9,0	Donnington	10,7
Sheffield place	6,4	Harleyford	10,3
Walberton	5,8	Beconsfield	6,9
Isle of Wight	11,0		

4. G. E. FUSSELL, (b) 164

Leicestershire 1771 8,0-9,0

5. A. YOUNG, (i) 231, 234-235 (calculated)

Farm of Mr. Ellman at Glynd, Sussex

1771	8,2	1777	10,6	1783	8,7
1772	9,0	1778	7,7	1784	10,4
1773	12,0	1779	10,7	1785	12,0
1774	12,2	1780	9,0	1786	11,4
1775	7,0	1781	12,2	1787	12,2
1776	11,4	1782	8,5	1789	8,0
				av.	10,2

6. A. YOUNG, (g) 148 (calculated)

Wokingham, near Reading 1786 6,0-6,9

7. A. YOUNG, (h) 37 (calculated)

St. Clear 1787 8,0

8. W. MARSHALL, (a) I 133-135; II 58-59

Vale of Gloucester 1789 6,0-8,0
Cotswold Hills 1789 av. 8,0 6,7-10,7

9. TH. CARR, 31-32 (calculated)

Bedingham, near Lewes, Sussex 1789 9,3-10,7

10. W. MARSHALL, (b) I 192

Midland Counties 1796 20,0-25,6

11. W. MARSHALL, (c) I 193

West Devonshire 1796 7,5-10,0

12. A. YOUNG, (j) 54-55 (calculated)

Suffolk 1797 av. 7,0-9,3
4,0-16,0

13. W. MARSHALL, (e) I 124

Maidstone 1798 8,0

14. A. YOUNG, (k) 125, 117-118

1799

Folkingham	13,3	Dalby	6,4
Balton	9,0	Spilsby	11,0
Leadenham	7,1	Reevesby	7,5
Hackthorne	7,0	Mr. Parkinson, Asgarby	18,0
Norton	10,7	Ranby	7,0
Knaith	10,0	Mr. Elmhurst, Hazlethorpe	12,0
Haxey	8,0	Swinop	9,0
Normanby	8,0	Mr. Ellison, Sudbrook	8,0
Barton	9,0	Claypool	10,1
Wintringham	12,0	Woolsthorpe	12,0
Brocklesby	8,0	Grimsthorpe	12,0
Belesby	10,0	Mr. Hoyte, Osbornby	13,3
Humberston	6,0		

15. C. S. DAVIES, 128-129

Cheshire 1750-1800 av. 5,5 3,0-10,0

B. IRELAND

1. A. YOUNG, (d) 19, 23, 44, 54, 59, 80, 83, 87, 183, 238, 349, 362
1776-8

Barley		Bere	
Slaine	10,4	Dollestown	17,3-18,7
Shaen castle	8,0-18,0	Packenham	10,0-10,7
Bargie and Forth	6,7-10,0	Charleville	16,0-26,7
Courtown	10,0-12,0	Shaen castle	8,0-18,0
Mount Kennedy	20,0	Gloster	14,0-23,0
Strokestown	4,5	Derry	15,0
Drummoland	13,7		

C. FRANCE

1. E. MIREAUX, 322-331 appendix IV (calculated)

Noisy-le Grand, Brie 1732-5 4,6

Barley, 18th century

2. E. APPOLIS, 401

Saint-Jean de la Blaquièrre, Lodève, 1758 4,0

3. CH. LECLERC DE MONTLINOT, 185 (calculated)

Near Lille 1776 20,0

4. A. YOUNG, (f) II 566-567

Clermont	1787-9	15,0
Issoire	1787-9	8,0

D. THE NETHERLANDS

1. FOEKE SJOERDS, 157

Friesland 1765 20,0-30,0 (high yields on rich soils)

2. J. M. G. VAN DER POEL, (b) 96, 100 (calculated)

Friesland 1779 27,0-33,0 (high yields on rich soils)

E. GERMANY

1. J. HEISIG, 113, 117 (calculated)

Estates in Silesia

Giersdorf		Kynast	
1699-1700	2,4	1751-60	4,2
1701-9	2,4	1761-70	5,3
1712	3,4	1771-80	3,6
1751-60	3,2	1781-90	3,7
av.	2,8	1791-1800	4,1
		av.	4,2

2. G. HANSEN, 413-414

Estates in Schleswig-Holstein

Year	Rundhof	Drüllt
1712	5,8	-
1725	3,4	-
1734	-	6,4
1735	3,4	5,4
1746	8,5	8,2
1750	7,5	6,2
1755	-	5,5
1765	7,5	7,6
av.	6,0	6,5

3. P. VON HEDEMANN, 182

Hemmelmarck, near Eckernförde, Schleswig-Holstein 1738-52 3,0-10,0

4. J. ŠOLTA, 166 table VI, 190 table VIII, 208-211 table IX

Estates in Lusatia, Saxony

Year	Rammenau	Kuckau and Panschwitz	Year	Rammenau	Kuckau and Panschwitz
1713	—	4,2	1778	3,5	4,9
1715	—	4,2	1779	—	6,3
1716	—	3,9	1780	—	5,1
1717	—	3,9	1781	—	4,1
1718	—	3,4	1782	—	2,9
1746	3,3	—	1783	—	4,7
1748	1,4	—	1784	—	4,2
1751	3,6	—	1785	—	5,3
1752	4,1	—	1786	—	6,3
1754	3,1	—	1787	—	4,5
1755	4,2	—	1788	3,3	4,1
1757	2,1	2,9	1789	—	5,3
1758	6,8	5,9	1790	—	3,1
1759	6,5	4,4	1791	—	3,2
1760	—	4,1	1792	—	5,2
1761	4,6	2,7	1793	—	4,4
1762	6,1	3,7	1794	—	5,1
1763	—	4,2	1795	—	5,1
1765	5,5	4,9	1796	—	4,3
1767	—	4,9	1797	—	3,2
1774	2,6	—	1798	—	4,0
1775	4,5	—	1799	—	5,5
1776	2,7	—	av.	4,0	4,4

Yields of some cloister-villages

Villages	1772	1789	1791	1792	1794	av.
Kuckau	—	4,3	3,2	3,5	3,6	3,6
Jauer	—	4,3	2,5	3,9	4,2	3,7
Auschkowitz	—	5,0	4,4	1,9	2,7	3,5
Crostwitz	—	3,5	2,9	3,8	4,0	3,5
Caseritz	—	3,6	2,4	3,8	—	3,3
Kaschwitz	—	3,7	2,5	3,4	—	3,2
Glaubnitz	—	3,0	3,3	2,8	—	3,0
Jesau	2,1	3,2	3,7	—	—	3,0

5. O. BÖHME, 92

Estates near Dresden

Ostra		Gorbitz		Lohmen	
1720	3,3	1791	5,0	1777-9	3,1
1730	5,8			1789	3,3
1750	3,5			1799	4,7
1760	5,7			av.	3,7
av.	4,6				

Barley, 18th century

6. E. WASCHINSKI, I 91-93; II 126-129, 142-143

Estates in Schleswig-Holstein

Year	Oppendorf	Schönhorst	Bürau	Bürau Kühl Gärsten	Bürau Lähm Gärsten
1727	3,4	—	—	—	—
1729	4,7	4,3	—	7,1	6,2
1730	10,0	—	—	7,4	7,9
1731	—	—	—	7,1	10,6
1732	—	—	—	10,6	8,3
1733	3,8	—	—	6,2	6,3
1734	—	—	—	7,7	8,2
1735	—	—	—	7,7	8,6
1736	7,7	—	—	6,0	6,0
1737	—	9,6	—	6,2	5,3
1738	7,0	—	—	7,5	6,3
1739	3,8	5,9	7,8	—	—
1740	5,7	—	6,5	—	—
1741	4,8	6,2	—	—	—
1742	7,3	5,3	—	—	—
1743	—	4,8	—	—	—
1744	6,0	—	9,5	—	—
1745	7,0	—	—	—	—
1746	—	—	8,0	—	—
1747	—	—	—	8,0	5,8
1748	—	—	—	7,8	5,7
1749	—	—	—	6,0	—
1750	12,0	—	9,0	—	—
1751	6,5	—	—	8,7	10,5
1752	6,0	—	—	7,7	7,1
1753	7,0	—	—	7,2	6,5
1755	3,0	—	—	—	—
1756	5,0	—	—	—	—
1758	—	—	5,2	—	—
1759	8,0	—	—	—	—
1761	4,5	—	—	—	—
1764	5,9	—	—	—	—
1765	5,4	—	—	—	—
1766	6,0	—	—	—	—
1767	3,0	—	—	—	—
1768	3,0	—	—	—	—
1770	—	—	5,0	—	—
1774	4,0	—	—	—	—
1775	4,5	—	—	—	—
1776	6,0	—	—	—	—
1778	3,0	—	—	—	—
1780	4,5	—	—	—	—
1781	3,0	—	—	—	—
av.	5,5	6,0	7,3 (all varieties of barley)		

7. D. SAALFELD, 94, 163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover

Lucklum

1734-9	6,8
1740-5	8,0
1764-5	6,2
1783-8	8,1
1789-94	7,9
1795-1800	7,6
av.	7,4

Yields of some other estates

Waake, near Göttingen		Altenrode/Drübeck, near Wernigerode	
1751-80	6,1	1761-90	5,6
1781-1810	7,1	1791-1810	7,4

8. W. BOELCKE, 142-143

Estates in Upper-Lusatia

1766	
Drauschkowitz	3,0
Gaussig	3,8
Diehmen	3,3
Medewitz	5,4

9. G. LANGE, 49

Bersdorf, Silesia

1770-80	5,0
1780-90	5,4
1790-1800	5,5
av.	5,3

10. C. G. ANTON, 192

Oberneundorf, near Görlitz, Lusatia 1787 5,0-6,0

11. J. N. VON SCHWERZ, (d) I 288

Near Dortmund 1788-1818 11,6 (winter-barley)
17,2 (spring-barley)

Barley, 18th century

12. FR. ARENDS, II 169

Larrelter Kolk, near Emden	
1794	6,0 (spring-barley) 1,3 (Merzgerste, winter-barley sown in March)
1797	7,0 (Merzgerste)

13. J. C. FREESE, 403 note x

End of 18th century generally 8,0-9,0

F. SWEDEN

1. G. ENEQUIST, 134 n. 39, 136 table 31

Villages in the Lower Lule valley, near Lulea

Villages	Av. 1701-5 on base of the tithes	Ca. 1705 on base of the map description
Avan	1,8	2,5-3,0
Bälinge	1,9	2,0-3,0
Hertsön	2,4	2,5-2,7
Sunderbyn	2,6	3,0
Boden	1,6	2,5
Bredåker	1,8	2,2
Buddbyn	-	2,5-2,7
Heden	1,8	2,7-3,0
Svartbjörsbyn	1,8	2,7
Svartbyn	1,7	2,7-3,0
Sävast	2,3	2,5
Unbyn	2,5	2,5-3,0
Vittjärv	1,3	2,5
Harads	2,4	3,0-3,5
Svartlä	1,2	2,3
Bredåker 1785	1,5 (normal)	

G. ENEQUIST, 135 n. 40 quotes a book of A. A. HÜLPHERS, 1789, 147:

Lulea ca. 1780 seldom more than 5,0-7,0

G. NORWAY

1. G. ENEQUIST, 135 n. 40 quotes S. HASUND, *Korndyrkinga i Norge i eldre tid. Bidrag till bondesamfundets historie*, I, 1933, 199

Norway ca. 1700 3,4

H. CZECHO-SLOVAKIA

1. F. LOM, 169 table III

Estates in Bohemia

Krumlov		Lovosice		Třeboň	
1701-50	3,8	1701-50	3,3	1726-50	3,6
1751-1800	3,4	1751-1800	3,9	1751-1800	3,6

I. POLAND

1. A. WYCZANSKI, 589 (calculated)

Estate of Korczyn	
1765	3,9
1789	3,1

J. LATVIA

1. E. DUNSDORFS, 189 (calculated)

Estimation of total produce of Vizdeme, N.W. Latvia 1786 4,2

K. ESTONIA

1. O. LIIV, 160

1750-99 6,0 (high yield)
12,0-20,0 (newly fallowed land)

L. RUSSIA

1. F. I. REZNIKOV, 95-96

Villages on the Lower Dvina in the district of Velikij Ustjug (Morozovica, Straškovo and Korjakina)

1710	5,0-9,0		
Villages of the cloister of Troïce-Gledenskij		1710	5,6
Villages of the cloister of Cholmogorsk		1729	4,5

2. J. BLUM, 5

Russia 1759-86 3,0-5,0

3. A. M. RAZGON, 233

Demesne Ivanov, Vladimir 1782 2,0

IX. NINETEENTH CENTURY (-1820)

A. GREAT BRITAIN

1. A. YOUNG, (I) 99-100 (calculated)

1808		
Sussex	av. 5,8-8,0	4,4-12,0
Slaugham	4,0	
Worth	4,0	
Cuckfield	6,0	
Horsham	6,0	
Shipley	7,0	
West Grinstead	7,0	
Ashurst	7,0	

B. FRANCE

1. O. FESTY, (b) 80

Dép. du Gers 1804 8,0

2. STATISTIQUE AGRICOLE, 58, 140, 172-173, 197, 212, 229, 243, 252, 309, 366-367, 389, 394, 400-401, 432, 479, 505, 517, 569, 573

Arr.		average	Yields		
			high	moderate	low
Briançon	1812	4,0			
Lisieux	1812		6,2	5,0	3,8
Châtillon-sur-Seine	1812	4,0			
Montélimar	1812	4,0			
Nyons	1812	6,2			
Chartres	1812		10,0-11,0	9,0-10,0	
Dreux	1812	6,0-7,0			
Quimper	1812	15,0			
Rennes	1814	8,0			
Wassy	1812		6,2	5,5	4,5
Cosne	1812	4,4			
Nevers (Loire, Allier)	1812	12,0			
- (Amognes)	1812	6,0-7,0			
- (elsewhere)	1812	4,0-5,0			
Tarbes	1812	8,6			
dép. du Rhône	1816	6,5			
Corbeil	1812	6,0			
Rambouillet	1812	4,0-20,0			
Melle	1814	7,0 (spring-barley)			
Bellac	1812	6,0			
Limoges	1812	6,0-7,0			

3. A. PLAISSE, 570

Arr. de Louviers 1812 7,0

C. BELGIUM

1. J. N. SCHWERZ, (a) I 311

Villages in Flanders, winter-barley

1802-3	
Edegem	16,6
Ekeren	16,0
Stabroek	17,1
Voorde	22,8
Melle	16,0

2. M. FAIPOULT, 116 (calculated)

Dép. de l'Escaut 1805 26,0 (in the polders)
14,0-15,0

D. THE NETHERLANDS

1. J. M. G. VAN DER POEL, (a) (calculated)

1800	
Hoorn, North-Holland	12,0-24,0
Beemster, North-Holland	15,0-17,5
Franeker, Friesland	10,0-12,5
	20,0-25,0 (high yield)
Almelo, Overijssel	6,0- 9,0

2. F. J. B. d'ALPHONSE, 174-175 (calculated)

The whole country 1812 12,5
22,0 (high yield)
8,0 (low yield)

E. SWITZERLAND

1. J. N. SCHWERZ, (c) 198 tables a, b and c (calculated)

School of Fellenberg at Hofwyl, near Berne

1811	25,7
1812	12,3
1813	15,1
av.	17,7

F. GERMANY

1. J. ŠOLTA, 190-207 table VIII, 208-211 table IX

Estates in Lusatia, Saxony

Kuckau and Panschwitz			Yields of some cloister-villages		
1800	4,4	1810	4,1	1810	
1801	4,2	1811	4,7	Kuckau	3,9
1802	4,7	1812	6,2	Jauer	2,6
1803	6,1	1813	3,4	Auschkowitz	3,0
1804	4,8	1814	8,3	Crostwitz	3,9
1805	4,2	1815	6,4	Caseritz	3,6
1806	4,5	1816	6,1	Kaschwitz	3,3
1807	3,7	1817	5,4	Glaubnitz	2,3
1808	4,8	1818	5,7	Jesau	3,7
1809	5,4	1819	4,7		
		1820	5,5		
		av.	5,1		

2. J. HEISIG, 113, 117 (calculated)

Kynast, Silesia	
1801-10	3,6
1811-20	2,2

3. G. LANGE, 49

Bersdorf, Silesia	
1800-10	6,6
1810-20	7,8

4. O. BÖHME, 92

Estates near Dresden

Ostra		Gorbitz		Lohmen	
1799-1807	7,0	1820	8,0	1820	9,7
1809	7,5				

5. D. SAALFELD, 163 Anlage 6 Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Lucklum, near Wolfenbüttel 1801-7 7,3

6. J. N. SCHWERZ, (b) 166 table VII

Pfeddersheim, Rhine Palatinate			
1803	15,5	1808	18,2
1804	13,6	1809	19,2
1805	18,8	1810	17,5
1806	20,4	1811	8,1
1807	14,0	1812	17,4
		av.	16,3

7. H. W. FINCK VON FINCKENSTEIN, 214

Averages of the Prussian provinces

1807	
East-Prussia	4,9
West-Prussia	6,4
Brandenburg	3,6
Pomerania	5,0
Posen	5,4
Silesia	4,6
Saxony	6,9
av.	5,3

8. H. CH. PH. KIESEWETTER, 114, 167

Estates in Schleswig-Holstein

1807	
Probstei Preetz	20,0 (sometimes)
Tönning	12,0 (winter-barley)
	13,3 (winter-barley)
	18,7 (winter-barley)

9. FR. ARENDS, I 188, 219, 224 (calculated), 302 (calculated), 353, 400 (calculated), 429, 457; II 26, 48, 63 (calculated), 132, 159, 244, 271, 283 (calculated), 298; III 65

1818-20

Reiderland	16,0	
Oberledingerland	11,0	
sandy soil	4,0- 8,0	
Amt Emden, poor soil	6,7	
Amt Pewsum	19,0	(winter-barley)
Strackholt	6,7- 8,0	
Westermarsch near Norden	15,3	(winter-barley)
	14,7	(Merzgerste, winter-barley sown in March)
	10,7	(spring-barley)
	14,7	(spring-barley)
Amt Berum, Ostermarsch	12,8	(winter-barley)
	6,7	(spring-barley)
Amt Esens	14,4	
sandy soil	8,8	
Amt Wittmund, rich soil	20,0	(winter-barley)
rich soil	15,0	(spring-barley)
moderate soil	13,0	
Amt Friedeburg	12,8-16,0	
Harlbucht, new polders	24,0	(winter-barley)
	19,0	(spring-barley)

Barley, 19th century

(Continued)

1818-20

Alt- und Neubunderpolder	16,0	(winter-barley)
	11,9	(Merzgerste)
Landschafts- und Heinitzpolder	20,0	(winter-barley)
	18,0	(Merzgerste)
Sande, Amt Jever	8,0-13,3	(winter-barley)
	6,3-10,7	(spring-barley)
Amt Minsen	16,0-24,0	(winter-barley)
	8,0-16,0	(spring-barley)
Amt Tettens	18,0-20,0	(winter-barley)
	12,0-14,0	(spring-barley)
Knyphausen	5,7- 9,3	(spring-barley)
Generally, on good soil	13,7-21,3	(winter-barley)

G. DENMARK

1. H. CH. PH. KIESEWETTER, 140

Alsens 1807 7,0

H. SWEDEN

1. J. HILLSTENIUS, 106-107 (calculated, sowing-seed and harvests of whole Sweden)

Average of whole Sweden

1802	6,0	1809	6,4	1816	6,0
1803	6,2	1810	6,0	1817	6,3
1804	6,0	1811	5,7	1818	5,5
1805	5,7	1812	5,0	1819	5,7
1806	6,1	1813	6,0	1820	6,9
1807	5,9	1814	6,2	av.	6,0
1808	5,4	1815	6,4		

2. G. UTTERSTRÖM, I (1957) 201 table 11, 203 table 12 (calculated, Utterström gives harvests minus sowing-seed)

Björnö in Uppland

1802	5,2	1809	10,5	1816	7,7
1803	6,5	1810	6,6	1817	13,1
1804	7,6	1811	7,8	1818	4,4
1805	7,6	1812	7,1	1819	6,3
1806	8,2	1813	8,1	1820	9,4
1807	9,2	1814	11,0	av.	7,5
1808	6,3	1815	10,7		

Bysta in Närke (reliable?)

1816	16,4
1817	22,4
1818	20,2
1819	35,1
1820	42,0
av.	27,2

I. CZECHO-SLOVAKIA

1. F. LOM, 169 table III

Estates in Bohemia

Krumlov	1801-50	4,1
Lovosice	1801-50	6,4
Třeboň	1801-50	3,9

J. RUSSIA

1. J. BLUM, 5

Russia, in the Black Earth	1802	3,3 (average) 6,0 (sometimes)
Russia, forest zone	1802	2,4

I. THIRTEENTH CENTURY

A. GREAT BRITAIN

1. ANONYMOUS HUSBANDRY, 71

Thirteenth century in England 4,0

2. W. H. BEVERIDGE, 161 table III B

Manors	Counties	1200-1249	1250-1299
Nailsbourne*	Somerset	—	2,3
Downton*	Wilts.	2,9	2,0
Witney	Oxon.	2,3	2,2
Wargrave	Berksh.	3,0	2,0
Wycombe	Bucks.	3,2	2,2
Ecchinswell*	Hants (N.)	3,1	2,3
Overton*	Hants (Mid.)	2,6	2,5
Meon*	Hants (S.)	3,0	2,5
Esher	Surrey	1,6	1,7
av. 5 manors(*)		2,9	2,3
av. 9 manors		2,7	2,2

3. J. A. RAFTIS, 164-167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire

Year	Upwood	Wistow	Warboys	Elton	Broughton and Ripton Regis
1244	—	—	—	—	2,0
1247	2,2	2,7	—	—	—
1250	3,0	3,5	2,3	—	3,0
1252	1,9	3,1	—	—	—
1254	—	—	3,0	—	—
1286	—	—	—	2,3	—
1297	—	1,5	—	2,0	—
1299(?)	1,6	—	—	—	—
av.	2,2	2,7	—	—	—

4. A. BALLARD, 459 (calculated on the base of the quantities of sowing-seed mentioned on p. 448)

Manors in Oxfordshire

Year	Bladon	Combe	Handborough	Wootton
1243	1,0	1,1	1,2	1,8
1244	3,2	1,2	2,4	2,2
1245	1,7	1,5	2,4	2,9
1246	2,1	1,7	2,1	2,1
1247	1,7	2,0	2,1	2,6

(Continued)

Year	Bladon	Combe	Handborough	Wootton
1248	2,0	1,6	2,7	1,9
1249	1,4	2,7	1,9	1,1
1263	1,0	—	—	—
1277	—	2,2	—	2,0
1278	—	1,5	—	2,4
1282	—	—	1,8	—
1283	—	—	1,7	—
1289	—	1,9	—	1,7
1294	—	3,0	—	2,0
av.	1,8	1,9	2,0	2,1

5. F. M. PAGE, 329 appendix II

Oakington, near Cambridge

1272	1,3
1283	2,6
1290	2,8
1291	2,3
1292	2,5
1297	2,6
1298	2,4
1299	2,6
av.	2,4

6. R. LENNARD, 16, 18 n. 3 and 4

Crondal, Hants	1248	3,0
Sutton, Hants?	1248	4,0
Basingstoke, Hants	1281	2,2

7. F. G. DAVENPORT, 30 n. 3 and appendix VIII, p. XXXVI–XXXVII;
R. LENNARD, 16, 20 n. 1

Forncett manor, near Norwich

1273	3,9
1290	3,0
1293	3,7
av.	3,4

8. M. W. FARR, 53–173 (calculated)

Manors of Sevenhampton and Stratton, Wiltshire (from 1276 manor of Sevenhampton only)

1274	2,0	1282	1,7
1275	3,5	1283	3,5
1276	5,1	1284	3,8
1277	3,1	1285	2,8
1278	2,0	1286	2,9
1279	3,5	1287	2,2
1280	2,3	1288	2,7
1281	2,0	av.	2,9

Oats, 13th - 14th centuries

9. M. MORGAN, 103 (calculated)

Blakenham, near Bury St. Edmunds

1295	2,0
1298	1,2
1299	1,3
av.	1,5

10. F. B. STITT, 40-41 table 3 (calculated)

Demesne at Lenton, Nottinghamshire 1297 3,2

II. FOURTEENTH CENTURY

A. GREAT BRITAIN

1. W. H. BEVERIDGE, 161 table III B

Manors	Counties	1300-1349	1350-1399
Nailsbourne*	Somerset	2,8	2,9
Downton*	Wilts.	2,6	2,7
Witney	Oxon.	2,1	2,3
Wargrave	Berksh.	1,7	2,3
Wycombe	Bucks.	2,1	2,9
Ecchinswell*	Hants (N.)	2,2	3,0
Overton*	Hants (Mid.)	2,1	2,8
Meon*	Hants (S.)	2,4	2,9
Esher	Surrey	1,9	1,8
av. 5 manors(*)		2,4	2,9
av. 9 manors		2,2	2,6

2. M. MORGAN, 99, 103 (calculated)

Blakenham, near Bury St. Edmunds		Wretham, east of Norwich	
1300	1,2	1304	2,6
1301	1,6	1305	2,5
1302	1,5	1306	2,2
1303	1,3	1307	2,4
1332	1,8	1308	2,8
1333	1,6	1337	2,9
1335	1,5	1338	2,8
1336	1,9	1339	3,2
1337	1,6	av.	2,7
1338	2,1		
1339	1,7		
av.	1,6		

3. F. M. PAGE, 329–330 appendix II

Oakington, near Cambridge					
1305	3,0	1372	2,6	1387	3,1
1308	3,1	1373	3,9	1388	4,5
1320	3,7	1375	3,3	1389	3,1
1362	3,2	1377	2,3	1390	2,9
1363	3,1	1378	2,4	1391	3,3
1364	3,1	1379	4,5	1392	2,8
1365	2,5	1380	4,8	1393	2,0
1366	3,8	1381	3,5	1394	4,7
1367	4,6	1382	3,3	1398	2,0
1368	2,1	1383	4,2	av.	3,4
1369	2,4	1384	8,9		
1370	2,4	1385	3,0		
1371	3,1	1386	3,0		

4. F. G. DAVENPORT, 30 n. 3 and appendix VIII p. XXXVI–XXXVII;
R. LENNARD, 21

Forncett manor, near Norwich	
1300	3,2
1303	3,5
1304	3,6
1306	2,8
av.	3,3

5. J. A. RAFTIS, 164–167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire

Year	Upwood	Wistow	Warboys	Elton	Broughton
1302(?)	1,2	—	—	—	—
1306	3,1	—	—	—	—
1307	—	3,5	1,5	—	—
1311	—	1,7	—	2,1	—
1312	1,9	—	—	—	—
1313	—	—	—	1,8	—
1318	—	1,7	1,7	—	—
1319	1,0	—	—	—	—
1324	1,5	—	1,1	2,3	—
1326(?)	2,1	—	—	—	—
1335	—	1,0	1,4	—	—
1342	—	—	3,3	—	—
1343	1,3	—	—	—	—
1346	—	1,1	—	—	—
1349	—	—	—	1,8	—
1350	—	—	—	2,7	—
1351	—	0,4	—	—	—
1378	—	—	—	—	2,8
1380	—	—	—	—	3,6
1386	—	—	—	—	3,8
1392	—	—	—	—	4,5
av.	1,7	1,6	1,8	2,1	3,7

Oats, 14th century

Id., 177-178 table XXXVII, yield ratios (responsio)

Huntingdonshire

Year	Upwood	Wistow	Warboys	Elton	Broughton	Abbots Ripton	Slepe	Holywell
1324	1,0+	—	1,0—	2,0—	—	1,0+	1,0+	1,0—
1342	—	—	6,5+	—	—	2,0	—	—
1343	1,5—	—	—	—	—	—	—	—
1344	—	—	1,0+	1,0—	—	—	—	—
1347	—	—	1,0—	—	—	—	—	—
1348	—	—	1,0+	—	—	—	—	—
1352	—	1,0+	—	—	—	—	—	—
1353	—	—	1,0—	—	—	—	—	—
1356	—	—	1,0+	—	—	—	—	—
1359	—	—	1,0—	—	—	—	—	—
1360	—	—	1,0—	—	—	—	—	—
1364	—	—	—	—	—	1,0—	—	3,0+
1366	—	—	1,0—	—	—	—	—	—
1378	—	—	—	—	1,0+	—	—	—
1379	—	—	—	—	3,5+	—	—	—
1383	—	—	—	—	—	1,0—	—	—
1386	—	—	—	—	1,0+	—	—	—
1389	—	1,0	—	—	—	—	—	—
av.	—	—	1,5	—	1,8	1,2	—	—

6. A. BALLARD, 459 (calculated on the base of the quantities of sowing-seed mentioned on p. 448)

Manors in Oxfordshire

Year	Combe	Wootton
1305	1,7	1,2
1306	1,7	0,9
1307	1,5	1,1
av.	1,6	1,1

7. J. E. THOROLD ROGERS, I 38-45; II 622-625 (calculated)

Cuxham, Oxon. 1317 3,7

Manors	Counties	1334	1335	1336
Maldon	Surrey	2,3	3,3	2,5
Letherhead	Surrey	1,8	2,6	1,7
Farley	Surrey	3,2	3,0	2,9
Cambridge	Camb.	—	3,4	3,6
Cheddington	Bucks.	2,4	3,4	1,2
Wolford	Warwick	10,5	5,7	—
Cuxham	Oxon.	4,1	3,4	4,2
Basingstoke	Hants	1,9	1,1	1,4
av.		3,7	3,2	2,5

8. J. S. DREW, 41 appendix (responsio)

Manor of St. Swithun's priory, Winchester, Silkstead 1332 2,5+

9. H. P. R. FINBERG, 112 table IX

Ottery, Devon		
Year	Large oats	Small oats
1335	4,0	3,4
1342	4,5	4,4
1343	5,5	3,4
av.	4,7	3,7

10. R. LENNARD, 21

Hawsted, Suffolk 1388 2,0

B. FRANCE

1. J. M. RICHARD, 400-401

Roquetteire, near St. Omer		Gosnay, near Béthune	
1321	3,8	1333	6,0
1322	4,5	1334	8,2
1323	5,0	1335	5,5
1324	2,6	1336	7,0
1327	2,7	av.	6,7
av.	3,7		

2. R. et L. FOSSIER, 442

Manors of the abbey of Notre-Dame-des-Prés de Douai 1329-1380 av. 6,0
max. 11,0 min. 1,0.

III. FIFTEENTH CENTURY

A. GREAT BRITAIN

1. W. H. BEVERIDGE, 161 table III B

Manors	Counties	1400-1449
Nailsbourne*	Somerset	3,5
Downton*	Wilts.	3,1
Witney	Oxon.	-
Wargrave	Berksh.	3,0
Wycombe	Bucks.	2,6
Ecchinswell*	Hants (N.)	4,3
Overton*	Hants (Mid.)	3,4
Meon*	Hants (S.)	3,6
Esher	Surrey	-
av. 5 manors(*)		3,6
av. 7 manors		3,4

2. F. M. PAGE, 330 appendix II

Oakington, near Cambridge

1400	4,7
1401	1,9
1402	3,4
1404	7,0
1405	5,0
1406	6,3
1407	3,2
1408	7,4
1409	8,0
av.	5,3

3. H. P. R. FINBERG, 112-113 table IX

Hurdwick, Devon

Year	Large oats	Small oats
1412	4,6	5,5
1413	1,7	8,3
1463	2,4	12,5
1470	1,9	7,5
1489	5,5	4,4
1490	5,9	5,2
1491	5,4	4,8
1497	5,1	3,9
av.	4,1	6,5

Werrington, Devon

1459	4,0
1471	4,0
1498	4,0
av.	4,0

4. J. E. THOROLD ROGERS, IV 39 (calculated on the base of the quantities of sowing-seed mentioned I 50)

Manor of the Canterbury Cathedral, Adisham ca. 1460 5,0

5. J. SALTMARSH, 166

Grantchester, near Cambridge

1463	1,7
1464	1,5

B. FRANCE

1. A. PLAISSE, 166, 168-169, tables 35-37 (of dubious value)

Cantaloup, Le Neubourg, Sainte-Vaubourg 1397-1415 av. 3,1

2. PH. WOLFF, 175

Toulouse 1439 5,0

C. THE NETHERLANDS

1. REKENING HERTOGELIJK BOUWHUIS, Hattem (account, calculated)

Hattem, near Zwolle

1418	6,6
1419	8,5
1420	10,1
av.	8,4

IV. SIXTEENTH CENTURY

A. GREAT BRITAIN

1. H. P. R. FINBERG, 112-113 table X

Hurdwick, Devon

<u>Year</u>	<u>Large oats</u>	<u>Small oats</u>
1504	4,4	3,6
1508	4,7	5,0
1513	5,5	4,3
1516	5,2	4,0
1537	2,5	5,2
av.	4,5	4,4

2. J. CORNWALL, 57

Heighton St. Clair, Sussex 1562 3,2

3. J. P. COOPER

Walton, Somerset ca. 1583 4,0 (estimation of expected yield)

B. THE NETHERLANDS

1. B. H. SLICHER VAN BATH, (b) 92

Hitsum, Friesland

1571	3,0
1573	5,0

C. GERMANY

1. O. KIUS, 141-143

Near Weimar

1528	3,1	1536	3,9	1544	3,7	1552	4,9
1529	3,0	1537	3,4	1545	4,4	1553	7,0
1530	3,8	1538	4,9	1546	6,2	1554	6,7
1531	3,5	1539	3,6	1547	4,0	1555	4,3
1532	3,7	1540	3,2	1548	5,6	1557	7,1
1533	4,4	1541	4,6	1549	7,7	1558	4,6
1534	1,4	1542	5,2	1550	4,5	1560	2,6
1535	2,8	1543	4,1	1551	4,7	1564	3,9
						av.	4,1

2. D. SAALFELD, 162-163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover

Wickensen		Wolfenbüttel		Gandersheim		Lucklum	
1540-1	2,3	1540-1	5,2	1579-83	5,5	1595-9	4,6
1579-83	5,3	1579-90	6,2				

3. H. H. WÄCHTER, 112 tables 10 and 11. Calculated on the base of the quantities of sowing-seed mentioned in table 10

East-Prussia

Average during the period 1550-1695

Balga	3,1	Weeskenhof	3,7
Carben	1,9	Behlenhof	2,9
Görlitz	2,5	Waldau	2,9
Mörlin	2,2	Schaaken	2,7
Grosser Hof	2,4	Memel	3,1
Kleiner Hof	2,6	av.	2,8

4. A. BACKHAUS, 204

Schmatzfeld, near Wernigerode, Harz 1552-7 3,9

5. O. BÖHME, 92

Ostra, near Dresden 1571 4,3

6. H. WISWE, 113

Wobeck, Lower Saxony 1581 4,6

D. DENMARK

1. H. H. FUSSING, (a) 104

Crown estates on Falster	1546	1,5
Sofieholm, Falster	1583	1,0

2. A. NIELSEN, 157 (calculated)

Three crown estates in North Zealand	1582	4,0
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E. POLAND

1. A. WAWRZYŃCZYKOWA, (a) 99-124 tables 1-13

Estates of the Cracow Chapter in the voivodship of Sieradz

Estates	1552	'53	'54	'64	'65	'66	'67	'68	'69	'73	av.
Pabianice	3,0	2,5	2,9	3,9	2,4	3,2	4,0	3,0	2,8	2,3	3,0
Świątniki	-	2,6	2,8	4,0	2,7	1,9	0,9	2,9	1,8	3,8	2,6
Dobroń	-	-	-	2,9	2,8	2,2	5,9	3,9	3,1	5,1	3,7
Rzgów-Gospodarz	2,4	3,7	3,7	1,9	2,1	1,9	3,0	2,6	2,2	1,8	2,5
Górka Wielka	-	1,7	2,9	3,7	2,5	2,7	2,8	2,8	2,8	2,7	2,7
Wiskitno	0,9	2,6	3,8	3,3	3,4	3,0	6,1	5,0	2,9	4,1	3,5
Kurowice	0,9	1,6	2,5	1,7	1,3	2,4	2,9	3,9	3,3	2,4	2,3
Brojce	0,9	2,2	2,9	2,7	2,4	2,3	5,6	3,0	3,8	3,0	2,9
Dłutów	1,3	2,8	3,9	4,2	3,6	3,5	4,5	2,8	4,7	3,5	3,5
Average of these nine estates	-	-	-	3,1	2,6	2,5	4,0	3,2	3,0	3,1	-
Górka Mała lub Siekielów	1,6	2,2	2,7	3,4	2,7	1,3	3,6	2,2	2,1	3,5	2,5
Brus	-	-	-	3,1	1,5	3,4	3,6	3,4	4,0	3,6	3,2
Leszczyny	-	-	-	4,0	3,9	3,6	4,2	-	3,5	-	3,8
Zytowice	-	-	-	-	1,4	1,2	1,5	1,6	1,3	-	1,4

2. A. WYCZANSKI, 587

Estates in the Palatinate of Lublin	1564	5,3
Estates in the Palatinate of Mazowsze	1564	5,7
Villages of the town of Poznań	end 16th c.	2,9

Id., 589 (calculated)

Estate of Korczyn	1564	4,9
	1569	5,1

3. W. PRANDOTA, 164-178, 184 tables 3-10, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1564	1570
Guzów	4,4	5,3
Kaski	4,7	5,7
Korabiewice	4,1	8,3
Czerwonka	-	7,0
Wola Szydłowiecka	4,5	7,4
Sokole	-	2,6
Orzyszew	7,4	-
Miedniewice	7,8	-
Duchy of Oświęcim	6,4	-

4. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?)	av.
Stodoły	4,1	—	3,2	4,8	1,9	3,3	2,7	3,6	3,4
Sobótka	6,7	—	6,7	—	—	—	—	—	—
Janiszów	5,8	—	5,9	—	—	—	—	—	—
Makoszyn	6,4	—	4,1	4,1	7,2	2,8	5,6	—	5,0
Samborzec	4,7	—	4,3	4,3	4,2	5,5	2,6	3,8	4,2
Nisko	7,2	—	2,8	2,8	4,2	2,4	2,6	3,7	3,7
Góra	3,1	—	6,1	—	—	—	—	—	—
Strzegocice	8,6	—	6,6	—	—	—	—	—	—
Pławo	3,8	—	4,0	4,0	6,5	5,8	3,1	6,7	4,8
Tuszów	5,1	—	2,3	4,6	4,4	2,5	2,9	4,0	3,7
Połaniec	2,8	—	4,2	4,2	2,9	2,0	2,4	2,3	3,0
Strzegom	6,5	—	1,9	3,0	6,0	2,1	3,2	3,4	3,7
Osiek	4,5	—	1,4	2,9	2,7	3,5	3,8	5,5	3,5
Bukowa	4,5	—	2,0	2,0	2,3	0,9	1,3	4,4	2,5
Czajków	3,7	—	1,9	2,2	1,1	3,7	2,3	2,0	2,4
Chmielów	6,7	—	2,0	2,0	1,2	1,8	1,0	4,1	2,7
Mokrzyszów	6,0	—	2,5	2,5	1,8	0,7	2,0	4,7	2,9
Bugocice	7,8	—	9,9	—	—	—	—	—	—
Skotniki	5,1	—	5,1	—	—	—	—	—	—
Zagość	4,3	—	4,3	—	—	—	—	—	—
Konieczmosty	5,2	—	5,2	—	—	—	—	—	—
Strożyska	4,8	—	4,8	—	—	—	—	—	—
Sępichów	4,1	—	4,1	—	—	—	—	—	—
Kocina	3,9	—	3,9	—	—	—	—	—	—
Winiary	4,1	—	4,1	—	—	—	—	—	—
Mędrzechów	2,9	—	2,9	—	—	—	—	—	—
Gołębiów	4,5	3,0	4,0	—	—	—	—	—	3,8
Glinice	2,3	3,5	2,6	—	—	—	—	—	2,8
Zwolen	2,8	3,9	2,9	—	—	—	—	—	3,2
Tczów	5,1	6,3	5,9	—	—	—	—	—	5,8
Maków	5,1	4,7	2,9	—	—	—	—	—	4,2
Makowiec	5,1	5,2	3,5	—	—	—	—	—	4,6
Brzoza	4,5	4,2	3,4	—	—	—	—	—	4,0
Jedlnia	3,4	2,4	4,5	—	—	—	—	—	3,4
Gzowice	3,7	6,4	5,0	—	—	—	—	—	5,0
Klwatka	4,0	5,5	5,2	—	—	—	—	—	4,9
Wacyń	3,6	3,3	3,4	—	—	—	—	—	3,4
Mironice i Bielany	5,6	2,6	5,3	—	—	—	—	—	4,5
Kozienice	7,6	3,6	6,7	—	—	—	—	—	6,0
Gołab	6,3	—	10,0	—	—	—	—	—	—
Stare Chęciny	5,1	—	6,2	—	—	—	—	—	—
Radkowice	4,0	—	4,9	—	—	—	—	—	—
Drugnia	5,3	—	5,5	—	—	—	—	—	—
Brzeziny	5,0	—	5,0	—	—	—	—	—	—
Gacki	4,8	—	4,8	—	—	—	—	—	—
Average of 45 estates	4,7	—	4,3	—	—	—	—	—	—

5. S. ŚRENIOWSKI, 110-111

Knyszyn	1561	2,5 3,0 4,0 av. 3,2
Zator-Oświęcim	1564	2,0 2,5 3,0 (2 ×) 5,0 av. 3,1

6. J. LESKIEWICZOWA, 19 table 2

Estates near Osieck	
1564	
Osieck	6,0
Żelazna	12,8
Wola Starogrodzka	6,4
Chrosna	4,7

7. A. MĄCZAK, 99

Estates in the Vistula fens	Laski	1586-8	4,9
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8. J. OCHMAŃSKI, 387-388 tables 3-4

Estates near Kobryn	
1597	
Czerewaczycki estates	2,0
Wieżecki estates	2,5
Prużański estates	2,1
Czachecki estates	2,7
Horodecki estates	2,2
Moderate soil	2,4
Poor soil	2,2

9. A. WAWRZYŃCZYK, (c) 84 table XII

Peasant exploitation of royal estates in Masovia	16th cent.	8,1
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F. LATVIA

1. V. V. DOROŠENKO, 72-73

Kalsnav	ca. 1585	2,0
Malpils	1590	3,0—

2. A. SOOM, (a) 40

Berson	1582-92	3,2
Kalzenau (= Kalsnav)	1582-7	2,0
Martzen	1584-92	3,4
av.		2,8

G. RUSSIA

1. K. N. ŠČEPETOV, 127–128, table 5

Estates of the Iosifo-monastery at Volokolamsk in a region north of Moscow. 1592

Starca Makarija Rževskogo		Starca Vas'jana Temkina	
Ivanovskoe	1,9	Uspenskoe	1,5
Spaskoe	2,3	Balabanovo	1,5
Sudnikovo	2,6	Ragušino	2,1
Kur'janovo	2,3	Belkovo	1,9
Gavrino	1,1	Lestvicyno	2,5
Zubovo	3,6	Vorsino	2,2
Safatovo	1,4	Šestakovo	1,4
Rakatino	1,9	Kondratovo	1,1
		Ievlevo	2,4
Starca Jakoba Sokolova		Starca Nifonta Golodnogo	
Lukovnikovo	2,0	Očiščevo	2,1
Neverovo	2,9	Krjukovo	2,6
Koz'modem'janskoe	2,2	Bujgorod	1,8
Faustova Gora	2,1	Bykovo	2,4
Starca Antonija Akulova		Il'icyno	2,5
Balaškovo	4,3	Novoe	2,0
Ramenka	2,2	Oboburovo	3,2
Tryznovo	2,5	Vejny	3,4
Elinarchovo	1,9		
Turovo	2,0		
Starca Feodosija			
Bužarovo	1,5		
Molečkinovo	1,4		
Retkinovo	1,8		
Gorbovo	2,4		
Savel'evo	2,1		
Mamošino	1,7		
Beli	1,4		
Angelovo	1,9		

V. SEVENTEENTH CENTURY

A. GREAT BRITAIN

1. J. P. COOPER

Nibley, Gloucestershire		Kampsford, Gloucestershire	
1614	3,7	1626	2,0
1615	3,6	1630	1,4
		1631	3,0
Arbury, Warwickshire		av.	2,1
1607	3,5		

B. FRANCE

1. E. APPOLIS, 400

Lodève 1674 6,0

C. GERMANY

1. H. WIEMANN, 47

Barthe, near Leer, Ostfriesland

1602	1,5
1603	2,7

2. D. SAALFELD, 162-163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover

Bahrdorf		Gandersheim		Wickensen	
1608-28	2,2	1602-9	3,4	1613-23	2,5
1637-48	2,3	1619-39	3,8	1634-44	2,1
1658-64	1,9	1649-59	5,0	1653-5	3,2
1684	1,5	av.	4,0	1663-4	3,2
av.	2,1			av.	2,7

Wolfenbüttel		Lucklum	
1600-11	5,2	1600-6	3,8
1620-31	4,4	1612-22	3,1
1650-61	5,4	1631-40	3,0
1670-82	7,1	1644-59	4,5
av.	5,5	1660-6	5,2
		1669-70	3,8
		av.	3,9

3. H. WISWE, 113

Estates in Lower Saxony

Mariental	1602	3,0
Walkenried	1604	3,0
	1606	2,0
Unseburg	1674	6,8
Hackenstedt	1683	2,5

4. G. HANSSSEN, 403-404, 413-414, 478

Estates in Schleswig-Holstein

Year	Rundhof	Drüllt	Koselau
1610	2,3	1,8	-
1611	4,3	3,0	-
1612	3,5	2,1	-
1634	-	-	3,3
1635	-	-	2,3
1690	3,1	5,1	-
av.	3,3	3,0	-

Oats, 17th century

5. I. BOG, 24-25

Cloister Heilsbronn 1618 4,7

6. O. BÖHME, 92

Estates near Dresden

Lohmen		Gorbitz		Ostra	
1631-3	3,9	1651	4,4	1694-9	3,3
1642-7	3,3	1652	3,9		
1651	3,2	1653	2,5		
1680	3,2	1663	3,1		
av.	3,4	1673	5,2		
		1683	3,3		
		1693	2,3		
		av.	3,5		

7. W. ACHILLES, 155. Calculated on the base of the money-value of the sowing-seed and the yield

Hedeper, near Wolfenbüttel 1632-90 6,7

8. W. KOPPE, 22 table IV

Estates near Oldenburg in Holstein

Cismar and Körnick

1635	2,8	1641	3,7	1648	4,4
1636	3,4	1642	7,5	1649	2,7
1637	3,2	1643	4,0	1650	2,3
1638	3,0	1644	3,3	1651	3,4
1639	3,4	1645	4,5	1652	3,5
1640	2,7	1647	2,0	1653	4,0
				av.	3,5

9. A. BACKHAUS, 205

Schmatzfeld, near Wernigerode, Harz

1660	3,7
1670	5,2

10. J. HEISIG, 113, 117 (calculated)

Estates in Silesia

Giersdorf	1688-92	3,6
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D. DENMARK

1. G. OLSEN, 449

Demstrup and Sødriugholm, Jutland 1629-60 2,4
 Skovgaard, Jutland 1638-53 2,6

2. H. H. FUSSING, (a) 104
Selsø, Zealand 1633-4 1,7

3. H. H. FUSSING, (b) 79

Gessingholm, Jutland

1643	2,0
1646	1,9
1656	3,3
1661	2,1
av.	2,3

E. SWEDEN

1. A. NIELSEN, 158; H. H. FUSSING, (a) 104

Hageløse, Scania (Nielsen)	Hageløse, Scania (Fussing)
1619	1,5
1620	1,4
1621	1,7
1622	1,8
1626	1,8
1627	2,2
1632	2,5
av.	1,9
	1611-20 1,6
	1621-7 1,7
	1632-7 2,3
	av. 1,9

F. CZECHO-SLOVAKIA

1. F. LOM, 169 table III

Estates in Bohemia

Krumlov	1651-1700	2,3
Lovosice	1666-1700	3,6

G. POLAND

1. W. PRANDOTA, 164-177, 184 tables 3-8, 12; J. Leskiewiczowa, 45 table 7

Crown estates in Sochaczew County	1603	1620	1630	1661	av.
Guzów	3,1	5,6	5,3	4,4	4,6
Kaski	3,6	8,7	9,0	4,4	6,4
Korabiewice	1,9	3,8	3,3	2,0	2,7
Czerwonka	-	7,5	7,7	3,0	6,1
Wola Szydłowiecka	-	-	-	4,4	-
Sokole	2,7	4,2	6,0	-	4,3
Duchy of Oświęcim	1616	4,2			
	1660	5,7 (Prandota, inaccurate)			
	1661	3,7 (Leskiewiczowa)			

2. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1602	1615	1611-5
Stodoły	4,1	—	3,2
Sobótka	—	4,2	—
Janiszów	—	6,3	—
Makoszyn	5,0	—	3,4
Samborzec	3,9	—	4,5
Nisko	4,0	—	3,7
Góra	—	4,9	—
Strzegocice	—	4,3	—
Pławo	4,5	—	2,5
Tuszów	3,7	—	2,2
Połaniec	2,3	—	2,5
Strzegom	4,0	—	2,5
Osiek	3,2	—	2,4
Bukowa	2,4	—	3,2
Czajków	2,1	—	2,1
Chmielów	2,0	—	1,7
Mokrzyszów	1,7	—	1,6
Bugocice	—	4,4	—
Skotniki	—	2,8	—
Zagość	6,0	7,2	—
Konieczmosty	—	4,5	—
Strożyska	—	4,1	—
Sępiechów	—	3,2	—
Kocina	—	6,0	—
Winiary	—	6,8	—
Mędrzechów	—	5,6	—
Gołębiów	—	3,6	—
Glinice	—	3,0	—
Zwoleń	—	3,0	—
Tczów	—	2,0	—
Maków	—	16,5	— ¹⁾
Makowiec	—	4,3	—
Brzoza	—	3,3	—
Jedlnia (1602-15)	—	—	2,0
Gzowice	—	2,4	—
Kłwatka	—	3,1	—
Wacyń	—	3,7	—
Mironice i Bielany	3,5	3,4	—
Kozienice	2,7	2,8	—
Gołąb	—	4,4	—
Stare Chęciny	5,2	4,2	—
Radkowice	5,0	5,9	—
Drugnia	5,5	7,5	—
Brzeziny	—	3,5	—
Gacki	—	3,2	—
Average of 45 estates	—	3,9	—

¹⁾ Of dubious value

3. A. WYCZANSKI, 589 (calculated)

Estate of Korczyn	1615	5,1
	1660	5,3

4. J. OCHMAŃSKI, 389 table 5

Estates near Kobryn		
<hr/>		
Czerewaczycki estates	1617	1,5

5. S. ŚRENIOWSKI, 114

According to J. HAUR, *Oekonomika ziemiańska generalna*, 1675; and
J. HAUR, *Skład sekretów gospodarskich*, 1693

1675	4,0-4,5
1693	2,4-2,7

H. LATVIA

1. A. SCHWABE, 211

Estates in the Wolmar and Wenden districts

1624	2,0-4,0
1690	1,1-5,4

2. E. DUNSDORFS, 137-141, 189

Estates in Vizdeme, N.W. Latvia

1682	4,1
1683	3,6
1684	3,2
1685	3,9
1686	3,1
1687	3,7
av.	3,6

Estimation of total produce (calculated)

1687	2,8
1688	3,7

I. ESTONIA

1. A. SOOM, (b) 75-79

200 estates over all Estonia

Number of estates	District	Period	Average yield ratio
40	Harrien	1682-7	3,2
30	Wierland	1682-7	3,2
47	Jerwen	1682-7	3,6
38	Wiek	1682-7	3,5
15	Dorpat	1681-90	2,3
13	Pernau	1681-90	3,2
17	Ösel	1651-3	3,7

Oats, 17th century

(Continued)

Maxima			Minima		
Saastna	1685	12,2	Nüpli	av. 1681-7	1,4
	av. 1682-5	6,6	Kalina	av. 1682-6	2,4
Lihula	1685	11,1	Piivarootsi	av. 1682-5	2,8
	av. 1682-5	6,2			
Vana-Antsla	av. 1684-7	3,3			

Yields of some other estates

Viljandi	1659-64	2,8
	1682-7	2,6
Pööravere Kõima Koonga Audru	1678-80	2,3

2. O. LIIV, 161-165

Estates	1681	1682	1683	1684	1685	1686	1687	av.
Kolga, Kuusalu	-	-	-	1,8	3,0	1,9	-	2,2
Kehtna, Rapla	-	-	5,6	5,4	2,8	6,3	-	5,0
Haiba, Hageri	3,9	4,2	5,2	1,1	6,0	-	-	4,1
Võhmata, Koeru	2,9	3,0	3,0	2,5	2,9	-	-	2,9
Albu, Madise	5,5	5,5	4,4	1,5	3,7	-	-	4,1
Lihula	3,4	4,6	4,5	2,5	11,2	-	-	5,2
Pühalepa	-	2,3	2,6	2,1	1,1	1,5	1,9	1,9
Ruila, Hageri	2,2	2,3	2,7	1,4	-	-	-	2,1

J. RUSSIA

1. Z. JA. BOJARŠINOVA, 255 (calculated)

Tomsk, West-Siberia

1623	2,1
1624	1,8
1625	3,2
1626	3,8
1661	2,5
av.	2,7

2. OČERKI ISTORII SSSR., VI (1955) 42-43; P. MILJUKOV, I (1900) 76 n.

Districts in Siberia

Tjumen'	1620-50	7,0-8,0
Verchotur'e	1628	10,0
Turinsk	1630-49	6,0

(Continued)

 Estates of the cloister of Kostroma

1653	1,7
1657	1,4

 Estates of B. I. Morozov

Nižnij Novgorod	}	1660-1	2,4-5,2
Arzamas			
Tver'		1667	7,0

 Some other estates

near Moscow	1675	2,5
Arzamas	ab. 1675	5,0
Skopin, district Tot'ma	ab. 1675	3,0
Eletsk	17th cent.	1,5 (average of a period of 19 years)

3. F. G. SAFRONOV, 190-193 (calculated)

 Districts in Siberia near the rivers Ilim and Lena

Upper- and Lower Ilim	1658	2,6
Lower Kirensk, Upper Lena	1658	5,9
	1687	4,1
Upper Kirensk and Krivoluksk, Upper Lena	1679	3,8

4. Z. A. OGRIZKO, 29-32

Villages on the Lower Dvina

1684	Yield ratio	Number of villages	1687	Yield ratio	Number of villages
	1,0-1,9	5		1,0-1,9	1
	2,0-2,9	23		2,0-2,9	15
	3,0-3,9	15		3,0-3,9	15
	4,0-6,9	(8?)		4,0-8,9	(20?)
	7,0	1		9,0	1
Maximum:		Zabalot'e	1687	8,2	
Minima:		Jakutino	1684	1,3	
		Byslaevo	1688	1,3	
		Gorka	1688	1,8	
Some other yields:		Milkovščino	1688	2,0	
		Osipova	1688	1,4	
		Moscovy	1639	3,0	
			1640	5,6	

5. F. I. REZNIKOV, 95-96

Villages on the Lower Dvina in the district of Velikij Ustjug (Morozovica, Straškovo and Korjakina)

1678	1,5-3,0
1682	2,0-4,0

VI. EIGHTEENTH CENTURY

A. GREAT BRITAIN

1. A. YOUNG, (a) 53, 61, 65-66, 117, 122, 156, 168, 177-178, 180, 185, 202, 208

1768

Bury	8,0	Bruchalk-Romsey	5,3- 8,0
Henningham	10,0	Aylesford-Alton	4,8- 5,3
Braintree-Chelmsford	8,0	Alton-Farnham	8,0
Lanvachers-Newport	4,3	Gilford-Ripley	6,4-10,0
Newport	6,0	Ilford	12,0
Devizes-Salisbury	8,0	Ingateston-Chelmsford	6,0

2. A. YOUNG, (b) IV 230-234

1770

Hatfield-Welwyn	8,0	Gilsdale	10,0
Stevenage	9,0	Mr. Turner	10,0
Stevenage-Luton	3,0	Schorton	10,0
Houghton, Dunstable	11,2	Gilling, Richmond	9,0
Milton, Dunstable	8,0	Rookby	6,6
Pagnel, Wooburn	6,0	Kiplin	10,0
Broughton	7,2	Mr. Crowe	16,0
Astwick, Newport	4,5	Swinton	5,3
Biddenham	6,0	Craickhill	7,5
St. Neot's-Kimbolton	4,0	Sleningford	6,0
Casterton	10,0	Danby	8,7
Stamford-Grimsthorp	5,3	Mr. Scroope	14,3
Newark-Tuxford	8,0	Raby-castle	10,0
West Drayton	8,0	Earl of Darlington	10,0
Bawtrey-Doncaster	6,0	Morpeth	6,7
Ecclesfield, Sheffield	6,4	Alnwick	6,0
Doncaster-Rotherham	8,0	Belford	8,0
Woolley	10,0	Hetton	5,0

172

(Continued)

1770

Leeds-Tadcaster	8,9	Fenton	6,7
Wilbersfort, York	13,7	Rothbury	8,3
Hatton, York	8,0	Cambo	7,1
Risby	10,3	Glenwelt	15,0
Stillingfleet	6,4	Ascot, Carlisle	6,7
Holderness	10,0	Penrith	7,0
Howden	10,0	Keswick	7,1
Thorne	12,0	Shapp	4,7
Marquis of Rockingham's		Holme, Burton	6,0
Kentish farm	8,0	Kabers	6,7
id. Hertfordshire	8,0	Garslang	6,4
Wentworth	9,0	Ormskirk	5,0
Driffield	4,0	Altringham	10,0
Ganton	3,0	Knotsford	9,0
Brumpton	6,0	Shenston, Litchfield	11,2
Yeddingham	16,0	Aston, Birmingham	6,4
East Newton	7,1	Hagley	9,0
Nunnington	7,5	Bensington	20,8
Kirkleatham	10,0	North Mims	8,0

3. A. YOUNG, (c) IV 243-245

1771

Hempstead	12,0	Earlham	8,0
Tring	12,8	Bracon Ash	10,0
Blisworth	7,3	Bramford	9,0
Hazelbeece	3,7	Hastead	7,0
Glendon	3,2	Colchester	12,8
Mr. Booth, Glendon	22,4	Youngsberry	8,0
Quenby	9,1	Beaksburn	8,0
Dishley	9,6	Thanet (drilled)	22,4
Radburn	10,7	Hawkhurst	6,4
Tiddswell	8,0	Sheffield place	5,1
Chesterfield	10,9	Mr. Turner	12,0
Lawton	8,0	Isle of Wight	7,1
Gateford	10,0	Alresford	5,8
Blythe	13,3	Gilbury	7,1
Wombwell, Swaith	8,0	Critchill	5,3
Bootham	9,0	Moreton	6,0
Canwick	6,5	Came	4,8
Runcton, Lynn	10,0	Donnington	10,0
Snettisham	8,0	Harleyford	9,5
Aylsham	9,7	Beconsfield	8,0

4. G. E. FUSSELL, (b) 164

Leicestershire 1771 8,0

5. A. YOUNG, (i) 231, 234-235 (calculated)

Farm of Mr. Ellman at Glynd, Sussex					
1771	10,2	1777	12,2	1783	12,2
1772	8,0	1778	12,4	1784	10,8
1773	13,6	1779	11,2	1785	9,4
1774	14,4	1780	10,8	1786	9,0
1775	13,6	1781	9,0	1787	10,9
1776	12,3	1782	9,2	av.	11,1

6. A. YOUNG, (g) 148 (calculated)

Wokingham, near Reading 1786 4,8-5,3

7. A. YOUNG, (h) 37 (calculated)

St. Clear 1787 8,0

8. W. MACRO, 432

Barrow, Suffolk 1788 8,5
6,9
7,5
8,8
av. 7,9

9. TH. CARR, 32

Bedingham, near Lewes, Sussex 1789 9,1-10,9

10. W. MARSHALL, (b) I 194

Midland Counties 1796 9,6-12,0
6,9- 8,0 (sometimes)

11. W. MARSHALL, (d) II 19

Yorkshire 1796 9,3-12,8
20,0 (sometimes)

12. A. YOUNG, (j) 56 (calculated)

Suffolk 1797 8,0-9,0
Mr. Stone, Hopton 1797 8,0

13. W. MARSHALL, (e) I 125-126

Maidstone 1798 4,8-12,0

14. A. YOUNG, (k) 125

1799			
Deeping Fen	12,0	Spilsby	10,9
Holland Fen	9,3	Skirbeck	12,0
Folkingham	9,6	Reevesby	8,0
Belton	5,7	Mr. Parkinson, Asgarby	16,0
Hackthorne	6,4	Swinop	6,7
Haxey	10,0	Mr. Ellison, Sudbrook	6,7
Brocklesby	5,7	Woolsthorpe	8,0
Humberston	4,5	Grimsthorpe	6,7
Dalby	5,5		

15. C. S. DAVIES, 128-129

Cheshire 1750-1800 3,0-11,5

B. IRELAND

1. A. YOUNG, (d) 12-13, 19, 23, 44, 54, 59, 80, 83, 87, 183, 238, 355, 362

1776-8

Cellbridge	7,0	Courtown	10,0-12,0
Dollestown	6,5-8,3	Mount Kennedy	5,0
Slaine	8,0	Strokestown	5,0
Packenham	6,7-7,3	Drummoland	8,0
Charleville	6,7-10,0	id.	10,7 (better soil)
Shaen castle	4,0-7,5	Johnstown	5,0-7,0
Bargie and Forth	6,7-8,0	Derry	4,0-7,5

C. FRANCE

1. E. MIREAUX, 322-331 appendix IV (calculated)

Noisy-le Grand, Brie 1732-5 7,0

2. H. L. DUHAMEL DU MONCEAU, I 292

Pethiviers, Gâtinois ca. 1750 5,0

3. H. SÉE, 385-387

Bretagne	1776-8	9,0-10,0
Départ. Quimper	1776	5,0
Départ. Hennebont	1776	8,0
Balazé	1750-99	4,0
		5,0
Rennes	1788	9,0

4. CH. LECLERC DE MONTLINOT, 185 (calculated)

near Lille 1776 20,0

5. A. PLAISSE, 569 (estimation)

Le Neubourg	1779	4,0 (3×)
		3,0
		1,0
av.		3,3

6. A. YOUNG, (f) II 567

Issoire 1787-9 10,0

D. ITALY

1. A. YOUNG, (e) II 157

Villamagna 1787-9 7,0

E. THE NETHERLANDS

1. FOEKE SJOERDS, 157

Friesland 1765 30,0 (high yields on rich soils)

2. J. M. G. VAN DER POEL, (b) 96, 100 (calculated)

Friesland 1779 20,0-25,0 (high yields on rich soils)

F. GERMANY

1. J. HEISIG, 113, 117 (calculated)

Estates in Silesia

Giersdorf		Kynast	
1700	2,2	1751-60	2,8
1701-9	2,2	1761-70	3,1
1712	3,1	1771-80	3,6
1751-60	3,2	1781-90	3,7
av.	2,7	1791-1800	4,1
		av.	3,5

2. G. HANSEN, 413-414

Estates in Schleswig-Holstein

Year	Rundhof	Drüllt
1725	3,6	-
1734	-	3,3
1735	2,9	3,9
1746	3,4	4,0
1750	2,6	3,7
1755	-	4,1
1765	3,6	3,8
av.	3,2	3,8

3. O. BÖHME, 92

Estates near Dresden

Ostra		Gorbitz		Lohmen	
1720	4,0	1791	5,0	1777-9	2,4
1730	3,8			1789	3,9
1750	4,8			1799	3,3
1760	5,5			av.	3,2
av.	4,5				

4. E. WASCHINSKI, I 91-93; II 126-129, 142-143

Estates in Schleswig-Holstein

Year	Oppendorf	Schönhorst	Bürau
1727	2,7	2,0	-
1729	3,8	2,6	3,8
1730	5,6	5,8	7,0
1731	-	-	10,5
1732	-	-	9,1
1733	5,4	3,5	4,6
1734	-	-	7,1
1735	-	-	12,0
1736	5,9	4,7	6,2
1737	6,4	4,1	3,3
1738	4,9	4,2	-
1739	5,5	3,3	3,4
1740	5,4	2,5	5,0
1741	0,9	4,7	-
1742	5,5	4,5	-
1743	5,0	4,7	-
1744	6,2	5,2	-
1750	5,0	5,5	10,0
1751	5,5	4,5	6,0
1752	5,0	3,5	6,0
1753	6,0	5,5	4,5
1754	6,0	4,0	-
1755	5,0	4,5	-
1756	3,5	4,2	-
1757	4,0	4,0	-
1758	-	-	8,2
1759	5,0	4,2	-
1760	3,5	4,0	-
1761	4,0	3,0	-
1762	4,0	3,0	-
1764	4,3	3,1	-
1765	4,5	3,7	-
1766	5,0	4,0	-
1767	4,0	3,0	-
1768	4,3	3,3	-
1770	4,0	4,0	-
1771	4,0	3,0	-
1772	2,1	2,1	-
1773	3,5	2,2	-
1774	3,5	3,0	-
1775	3,5	2,5	-
1776	3,0	3,0	-
1777	2,7	2,7	-
1778	3,2	2,2	-
1779	3,0	2,0	-
1780	3,2	2,2	-
1781	3,0	2,1	-
av.	4,3	3,6	6,7

5. D. SAALFELD, 94, 163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Brunswick, South Hanover

Lucklum

1734-9	4,2
1740-5	5,8
1764-5	5,8
1783-8	7,2
1789-94	6,4
1795-1800	7,2
av.	6,1

Yields of some other estates

Waake, near Göttingen Altenrode/Drübeck, near Wernigerode

1751-80	4,6	1761-90	4,8
1781-1800	4,8	1791-1810	6,8

6. P. VON HEDEMANN, 183

Hemmelmарck, near Eckernförde, Schleswig-Holstein

1738-52	av. 3,0
	5,0 (high yield)
	2,0 (low yield)

7. W. BOELCKE, 142-143

Estates in Upper-Lusatia

1766	
Drauschkowitz	2,3
Gaussig	2,3
Diehmen	2,2
Medewitz	2,2

8. G. LANGE, 49

Bersdorf, Silesia

1770-80	4,0
1780-90	4,3
1790-1800	4,1
av.	4,1

9. C. G. ANTON, 192

Oberneundorf, near Görlitz, Lusatia 1787 4,0-6,0

10. J. N. VON SCHWERZ, (d) I 288

Near Dortmund 1788-1818 13,5

II. FR. ARENDS, II 169

Larrelter Kolk, near Emden

1793	10,6
1794	15,2
1797	11,0
av.	12,3

G. CZECHO-SLOVAKIA

I. F. LOM, 169 table III

Krumlov		Lovosice		Třeboň	
1701-50	2,5	1701-50	2,8	1726-50	2,6
1751-1800	2,4	1751-1800	3,6	1751-1800	2,6

H. POLAND

I. A. WYCZANSKI, 589 (calculated)

Estate of Korczyn

1765	3,0
1789	2,7

I. LITHUANIA

I. W. CONZE, 195

Villages near Grodno

18th cent.	
Zverinec	3,0
Kamen	3,5
Chmelniki	3,0

J. LATVIA

I. E. DUNSDORFS, 189 (calculated)

Estimation of total produce Vizdeme, N.W. Latvia 1786 2,8

K. ESTONIA

I. O. LIIV, 160

Estonia	1750-99	5,0 (average)
		8,0 (on good soil)

L. RUSSIA

1. F. G. SAFRONOV, 190-193 (calculated)

District in Siberia near the river Lena Ust'-Kutsk, Upper Lena 1701 2,5

2. F. I. REZNIKOV, 95-96

Villages on the Lower Dvina in the district of Velikij Ustjug

Morozovica, Straškovo and Korjakina	1710	3,0-4,0
Villages of the cloister of Troïce-Gledenskij	1710	2,6

3. A. I. BARANOVIČ, 423

Demesnes in South Wolhynia

1748 (year of crop-failure)

Černoostrovskij	0,6	Dzvinjačkij	3,4
Kupel'skij	1,3	Zaliseckij	2,9
Ožigoveckij	2,2	Gorynskij	2,7
Verboveckij	1,3	Podgaičikskij	2,4
Gnidavskij	2,4	Borščovskij	2,5
Fed'koveckij	1,2	Snigioveckij	4,2
Mlynoveckij	1,7	av.	1,8

4. J. BLUM, 5

Russia 1759-86 3,0-5,0

5. I. D. KOVAL'ČENKO, 262

Province of Rjazan', average of the years 1782, 1785-91, 1794 and 1796 3,2
 Province of Tambov, average of the years 1782, 1785-92 2,9

6. A. M. RAZGON, 233

Demesne Ivanov, Vladimir 1782 2,0

VII. NINETEENTH CENTURY (-1820)

A. GREAT BRITAIN

1. A. YOUNG, (1) 100-101 (calculated)

1808

Mr. Murrel, Walburton 22,0-30,5
 Earl of Egremont, Petworth 13,3-20,0

In the following: quantity of sowing-seed 4 bushels per acre

Slaugham	4,0	Balcomb	6,0
Rusper	4,0	Shipley	7,0
Worth	5,0	West Grinstead	7,0
Horsham	5,0	Ashurst	7,0
Rudgwick	6,0	Warneham	7,0

(Continued)

1808			
Kindford	6,0	Cuckfield	7,0
Wisperer-green	6,0	Horsham	7,5
Billinghurst	6,0	Slingfold	7,5
Hitchingfield	6,0	Pulborough	7,5
Crawley	6,0	Chiltington	7,5
Ifield	6,0	Salehurst	8,0

B. FRANCE

1. O. FESTY, (b) 80

Dép. du Gers 1804 7,0

2. STATISTIQUE AGRICOLE, 58, 140, 172-173, 178, 197, 212, 229, 238, 243, 252, 309, 366-367, 389, 394, 400-401, 505, 517, 569, 573

Arr.		average	Yields		
			high	moderate	low
Briançon	1812	5,0			
Lisieux	1812		7,5	6,0	4,5
Châtillon-sur-Seine	1812	3,1			
Dinan	1812		10,0	7,0	3,0
Montélimar	1812	8,0			
Nyons	1812	6,0			
Chartres	1812		12,0-13,3	9,7-10,3	8,0-9,7
Chateaudun	1812	6,0	8,0		2,0-3,0
Dreux	1812	6,0-7,0			
Quimper	1812	15,0			
Rennes	1814	9,0			
Wassy	1812		6,5	5,2	4,0
Cosne	1812	5,4			
Nevers (Loire, Allier)	1812	12,0			
- (Amognes)	1812	6,0-7,0			
- (elsewhere)	1812	4,0-5,0			
Tarbes	1812	8,0			
Rambouillet	1812	2,3-18,9			
Melle	1814	10,0			
Bellac	1812	5,0			
Limoges	1812	5,0-6,0			

3. A. PLAISSE, 570

Arr. de Louviers 1812 6,0

C. BELGIUM

1. J. N. SCHWERZ, (a) I 311

Villages in Flanders	
1803	
Edegem	18,3
Ekeren	24,0
Oordam	20,0
Stabroek	22,5
de Kempen (Brab.)	11,1
Voorde	20,0
Melle	25,6

2. M. FAIPOULT, 116 (calculated)

Dép. de l'Escaut 1805 23,0 (high yield)

D. THE NETHERLANDS

1. J. M. G. VAN DER POEL, (a) (calculated)

1800	
Beemster, North-Holland	12,5-15,0
Franeker, Friesland	14,0-17,5
	20,0-22,0 (high yield)
Etten, North-Brabant	9,0-17,0
Almelo, Overijssel	5,5- 6,0

2. F. J. B. D'ALPHONSE, 174-175 (calculated)

The whole country 1812 12,5
20,0 (high yield)
6,0 (low yield)

E. GERMANY

1. J. HEISIG, 113, 117 (calculated)

Kynast, Silesia	
1801-10	4,9
1811-20	5,3

2. G. LANGE, 49

Bersdorf, Silesia	
1800-10	6,2
1810-20	8,6

3. O. BÖHME, 92

Estates near Dresden

Ostra		Gorbitz		Lohmen	
1799-1807	6,0	1820	7,0	1820	6,5
1809	6,0				

4. D. SAALFELD, 163 Anlage 6. Calculated on the base of the quantities of sowing-seed mentioned on p. 56

Lucklum, near Wolfenbüttel 1801-7 8,2

5. J. N. SCHWERZ, (b) 166 table VII

Pfeddersheim, Rhine Palatinate

1803	17,0
1804	20,2
1805	25,0
1806	17,3
1807	17,9
1808	22,4
1809	28,6
1810	20,4
1811	20,9
1812	26,0
av.	21,6

6. H. W. FINCK VON FINCKENSTEIN, 214

Averages of the Prussian provinces

1807	
East-Prussia	5,0
West-Prussia	3,9
Brandenburg	3,5
Pomerania	4,4
Posen	4,0
Silesia	4,2
Saxony	6,6
av.	4,5

7. H. CH. PH. KIESEWETTER, 167, 199, 219

Estates in northern Germany

1807	
Tönning	22,0-44,0
Kronprinzenkoog	26,7-33,3
Stade	10,0-22,0

8. FR. ARENDS, III 79

Loppersum, near Emden

1808	8,4
1809	5,1

Oats, 19th century

9. FR. ARENDS, I 188, 195, 219, 224 (calculated), 302, 353, 387-388 (calculated), 391, 400 (calculated), 406, 429, 453 (calculated), 457; II 26, 48, 63 (calculated), 79 (calculated), 132, 159, 271, 283 (calculated), 298; III 84, 83, 88

1818-20

Reiderland	17,1
	13,7
	14,9
	11,4 (Frisian oats)
Weninger Moor, Georgiwold	6,7
Oberledingerland	6,0-12,0
	15,0 (Brauhafer)
Amt Emden, rich soil	13,7
moderate soil	9,1
poor soil	3,4- 4,0
Amt Pewsum	17,0
Amt Aurich	10,0-12,0
Amt Aurich, Upgant	5,0- 9,0
	10,0-12,0
Amt Aurich, southern part	8,0-12,0
Strackholt	9,0-12,0
Blokhaus	16,0 (high yield)
Westermarsch, near Norden	16,0-17,0
Amt Berum, sandy soil	6,0
rich soil	10,7
Amt Esens, sandy soil	8,5
rich soil	13,0
Amt Wittmund,	12,0
moderate soil	9,0
Amt Friedeburg	10,0-12,0
Amt Stikhausen, sandy soil	6,0-10,0
Harlbucht	12,0
Alt- und Neubunderpolder	8,0
Landschafts- und Heinitzpolder	10,0
Amt Minsen	9,1-16,0
Amt Tettens	11,4-12,6
moderate soil	6,9- 9,1
Knyphausen	6,0-13,3
Helsmoel	17,8
	11,1-16,7
Generally, on clay soils, good	14,0
moderate	10,0
poor	6,5
on sandy soils	6,0
poor	3,0- 4,0

F. DENMARK

1. H. CH. PH. KIESEWETTER, 140

Alsen 1807 6,0

G. SWEDEN

1. J. HILLSTENIUS, 106-107 (calculated, sowing-seed and harvests of whole Sweden)

Average of whole Sweden					
1802	5,6	1809	5,6	1816	5,2
1803	4,7	1810	5,7	1817	5,8
1804	5,3	1811	5,1	1818	5,1
1805	5,3	1812	4,3	1819	5,2
1806	5,2	1813	4,5	1820	6,0
1807	4,9	1814	5,3	av.	5,2
1808	4,3	1815	5,3		

2. G. UTTERSTRÖM, I (1957) 201 table 11, 203 table 12 (calculated, Utterström gives harvests minus sowing-seed)

Björnö in Uppland					
1802	9,5	1809	9,9	1816	11,9
1803	15,0	1810	7,7	1817	9,3
1804	13,7	1811	8,9	1818	3,9
1805	8,3	1812	4,6	1819	6,0
1806	7,7	1813	10,9	1820	3,0
1807	8,8	1814	14,9	av.	9,3
1808	6,5	1815	16,1		

Bysta in Närke	
1816	9,3
1817	6,7
1818	6,7
1819	8,0
1820	11,0
av.	8,3

H. CZECHO-SLOVAKIA

1. F. LOM, 169 table III

Estates in Bohemia		
Krumlov	1801-50	3,4
Lovosice	1801-50	5,8
Třeboň	1801-50	4,0

I. RUSSIA

1. J. BLUM, 5

Russia, in the Black Earth	1802	3,3 (average) 6,0 (sometimes)
Russia, forest zone	1802	2,4

BUCKWHEAT

I. SIXTEENTH CENTURY

A. GERMANY

1. O. BÖHME, 92

Ostra, near Dresden 1571 3,0

B. DENMARK

1. A. NIELSEN, 157 (calculated)

Three crown estates in North Zealand 1582 1,1

C. POLAND

1. A. WAWRZYŃCZYKOWA, (a) 99-117 tables 1-9

Estates of the Cracow Chapter in the voivodship of Sieradz

Estates	1552	1553	1569	av.
Pabianice	—	—	6,2	—
Rzgów-Gospodarz	3,0	6,3	2,0	3,8
Dłutów	4,0	3,7	2,5	3,4

2. W. PRANDOTA, 164-178, 184 tables 3-10, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1564	1570
Guzów	9,3	—
Kaski	7,6	7,5
Korabiewice	2,7	4,3
Wola Szydłowiecka	6,5	5,5
Sokole	—	5,5
Miedniewice	20,0	—
Duchy of Oświęcim	15,6	—

3. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?)	av.
Stodoly	2,7	—	2,4	2,3	6,4	5,2	2,7	2,6	3,5
Sobótka	2,6	—	2,6	—	—	—	—	—	—
Makoszyn	5,0	—	5,3	5,3	2,7	1,9	3,2	—	3,9
Samborzec	4,5	—	5,0	5,0	4,5	4,8	2,7	—	4,4
Nisko	6,7	—	5,0	5,0	2,5	0,4	2,0	—	3,6
Góra	6,0	—	10,5	—	—	—	—	—	—
Strzegocice	3,9	—	10,0	—	—	—	—	—	—
Plawo	8,3	—	7,5	7,5	1,8	1,6	3,7	3,0	4,8
Tuszów	—	—	—	3,0	10,0	1,6	2,5	2,4	3,9
Połaniec	5,1	—	—	—	1,5	5,2	—	—	3,9

(Continued)

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?)	av.
Strzegom	6,0	-	1,9	3,8	-	2,7	1,9	-	3,3
Osiek	7,5	-	5,5	5,5	-	3,0	2,3	3,9	4,6
Bukowa	5,6	-	2,5	2,5	7,5	3,3	2,0	-	3,9
Czajków	3,6	-	2,0	2,0	-	3,6	3,0	-	2,8
Chmielów	7,3	-	-	-	12,5	0,9	2,2	-	5,7
Mokrzyszów	-	-	4,0	4,0	4,0	-	2,5	3,0	3,5
Bugocice	6,0	-	9,0	-	-	-	-	-	-
Skotniki	6,0	-	6,0	-	-	-	-	-	-
Zagość	4,7	-	4,7	-	-	-	-	-	-
Konieczmosty	4,6	-	4,6	-	-	-	-	-	-
Strojzyska	2,6	-	2,6	-	-	-	-	-	-
Sępichów	3,0	-	3,0	-	-	-	-	-	-
Kocina	9,0	-	9,0	-	-	-	-	-	-
Winiary	5,0	-	5,0	-	-	-	-	-	-
Mędrzechów	13,3	-	13,3	-	-	-	-	-	-
Zwoleń	1,5	-	3,3	-	-	-	-	-	-
Tczów	3,6	2,4	4,0	-	-	-	-	-	3,3
Brzoza	2,1	-	9,0	-	-	-	-	-	-
Jedlnia	3,2	2,5	3,7	-	-	-	-	-	3,1
Gzowice	2,5	-	5,0	-	-	-	-	-	-
Klwatka	3,0	5,0	5,0	-	-	-	-	-	4,3
Wacyń	-	4,2	-	-	-	-	-	-	-
Kozienice	-	-	5,0	-	-	-	-	-	-
Gołab	8,3	-	12,0	-	-	-	-	-	-
Stare Chęciny	2,5	-	7,5	-	-	-	-	-	-
Radkowice	2,5	-	5,0	-	-	-	-	-	-
Drugnia	2,7	-	9,3	-	-	-	-	-	-
Brzeziny	2,4	-	2,4	-	-	-	-	-	-
Gacki	3,2	-	3,2	-	-	-	-	-	-
Average of 45 estates	4,4	-	5,4	-	-	-	-	-	-

4. J. LESKIEWICZOWA, 19 table 2

Estates near Osieck		
Osieck	1564	18,0
Wola Starogrodzka	1564	8,0
Chrosna	1564	6,0

5. J. OCHMAŃSKI, 387-388 tables 3-4

Estates near Kobryn	
1597	
Czerewaczycki estates	3,2
Wieżecki estates	3,1
Prużański estates	2,1
Kobryński estates	1,7
Moderate soil	2,8
Poor soil	1,7

D. LATVIA

1. V. V. DOROŠENKO, 72-73

Berzaun	1586	10,0
Kalsnav	1586	1,5

2. A. SOOM, (a) 40

Berson (= Berzaun)	1582-92	8,2
Kalzenau (= Kalsnav)	1582-7	3,2
Martzen (= Marzen)	1584-92	3,4
av.		4,9

E. RUSSIA

1. K. N. ŠČEPETOV, 133-134, table 8

Estates of the Iosifo-monastery at Volokolamsk in a region north of Moscow. 1592

Two kinds of buckwheat: greča (I) and jadrica (II)

Starca Jakoba Sokolova

	I	II
Lukovnikovo	1,2	
Neverovo	2,7	2,0
Koz'modem'janskoe	3,0	
Faustova Gora	2,2	

Starca Feodosija

	I	II
Molečkino	0,2	
Retkino	1,0	5,3
Gorbovo		8,0
Savel'evo	0,5	

Starca Antonija Akulova

	I	II
Balaškovo	2,7	
Ramenka	4,7	
Tryznovo	3,5	
Turovo	3,0	3,3
Oboburovo	2,0	
Vejny	1,9	

Starca Nifonta Golodnogo

	I	II
Očiščevo		1,5
Krjukovo		1,4
Bujgorod		2,2
Il'icyno		1,8
Novoe		2,5

II. SEVENTEENTH CENTURY

A. GERMANY

1. G. HANSEN, 403-404, 413-414

Estates in Schleswig-Holstein

Year	Rundhof	Drüllt
1610	10,8	-
1612	1,9	-
1690	3,2	1,4
av.	5,3	-

2. O. BÖHME, 92

Estates near Dresden

Year	Gorbitz	Lohmen
1651	1,0	2,6
1652	6,7	—
1653	4,0	—
1663	1,0	—
1673	3,0	—
1683	2,5	—
av.	3,0	—

B. DENMARK

1. H. H. FUSSING, (b) 79

Gessingholm, Jutland

1646	1,5
1656	2,6
1661	2,6
av.	2,2

C. POLAND

1. W. PRANDOTA, 164-177, 184 tables 3-8, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County

Estates	1603	1620	1630	1661	av.
Guzów	4,0	5,8	5,4	4,4	4,9
Kaski	4,4	8,2	9,0	3,3	6,2
Korabiewice	3,0	10,0	10,0	2,0	6,2
Wola Szydłowiecka	—	—	—	4,2	—
Sokole	5,2	5,5	5,5	—	5,4

Duchy of Oświęcim

1616	5,4
1660	2,9

2. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1602	1615	1611-5
Stodoły	3,0	—	3,2
Sobótka	—	2,7	—
Makoszyn	3,6	—	3,1
Samorzec	4,0	—	2,2
Nisko	4,3	—	5,9

Buckwheat, 17th century

(Continued)

Estates	1602	1615	1611-5
Góra	—	4,6	—
Strzegocice	—	3,5	—
Pławo	4,8	—	4,3
Tuszów	3,2	—	3,6
Połaniec	2,2	—	4,8
Strzegom	5,7	—	3,7
Osiek	2,9	—	5,6
Bukowa	2,9	—	2,3
Czajków	3,7	—	5,0
Chmielów	3,6	—	4,8
Mokrzyszów	10,0	—	2,8
Bugocice	—	2,8	—
Skotniki	—	1,9	—
Zagość	3,0	3,6	—
Konieczmosty	—	3,3	—
Strożyska	—	2,8	—
Sepichów	—	6,2	—
Kocina	—	3,9	—
Winiary	—	6,2	—
Mędrzechów	—	6,5	—
Glinice	—	2,0	—
Zwoleń	—	1,5	—
Tczów	—	1,9	—
Maków	—	11,5	— ¹⁾
Makowiec	—	2,7	—
Brzoza	5,5	5,5	—
Jedlnia (1602-15)	—	—	3,7
Gzowice	—	2,5	—
Klwatka	—	3,0	—
Wacyń	—	11,5	—
Mironice i Bielany	3,8	3,8	—
Kozienice	2,5	2,8	—
Gołąb	—	4,0	—
Stare Chęciny	8,0	8,2	—
Radkowice	5,0	11,0	—
Drugnia	9,3	8,3	—
Brzeziny	—	2,7	—
Gacki	—	3,1	—

¹⁾ Of dubious value

3. OCHMAŃSKI, 389 table 5

Estates near Kobryń:	Czerewaczycki estates	1617	2,5
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III. EIGHTEENTH CENTURY

A. FRANCE

1. H. SÉE, 386

Départ. Quimper	1776	12,0
Départ. Vitré	1776	25,0
Départ. Hennebont	1776	30,0
Balazé	1750-99	10,0
Rennes	1788	10,0

2. A. YOUNG, (f) II 570, 587, 597

1787-9		
Rennes		64,0
Sologne		5,0
Berry		5,0-6,0

B. ITALY

1. A. YOUNG, (e) II 213

Vicenza 1787-9 24,0

C. GERMANY

1. G. HANSSSEN, 413-414

Estates in Schleswig-Holstein

Year	Rundhof	Drüllt
1712	6,2	-
1725	9,7	-
1734	-	8,1
1735	11,3	6,0
1746	8,8	5,7
1750	11,5	5,3
1755	-	4,1
1765	6,1	6,0
av.	8,9	5,9

2. P. VON HEDEMANN, 182

Hemmelmarck, near Eckernförde, Schleswig-Holstein 1738-52 3,0-9,0

3. W. BOELCKE, 142-143

Estates in Upper-Lusatia

Gaussig	1766	1,8
Medewitz	1766	5,5 (? misprint in text)

Buckwheat, 18th - 19th centuries

4. C. G. ANTON, 192

Oberneundorf, near Görlitz, Lusatia 1787 4,0-10,0

D. LATVIA

1. E. DUNSDORFS, 189 (calculated)

Estimation of total produce of Vizdeme, N.W. Latvia 1786 3,7

E. RUSSIA

1. I. D. KOVAL'ČENKO, 262

Province of Rjazan', average of the years 1782, 1785-91 and 1796 2,7
 Province of Tambov, average of the years 1782, 1785-92 2,7

2. A. M. RAZGON, 233

Demesne Ivanov, Vladimir 1782 2,0

IV. NINETEENTH CENTURY (-1820)

A. FRANCE

1. O. FESTY, (b) 82

Dép. de la Mayenne 1812 60,0 (sometimes)

2. STATISTIQUE AGRICOLE, 160, 178, 197, 212, 223-224, 252, 283-284, 309, 366-367, 432, 505, 569, 573

Arr.		average	Yield		
			high	moderate	low
Vire	1812	15,0			
Dinan	1812		25,0	18,0	12,0
Montélimar	1812	18,0			
Nyons	1812	7,2			
Valence	1812	10,0			
Quimper	1812	25,0-30,0			
Redon	1814	10,0-15,0			
Rennes	1814	9,0			
Wassy	1812			6,0	
départ. du Rhône	1816	10,0			
Rambouillet	1812	7,5-37,5			
Bellac	1812	15,0			
Limoges	1812	15,0-20,0			

3. A. PLAISSE, 570

Arr. de Louviers 1812 15,0

B. BELGIUM

1. J. N. SCHWERZ, (a) I 311

Edegem, near Antwerp 1803 60,0-80,0

2. M. FAIPOULT, 117 (calculated)

Départ. de l'Escaut 1805 45,0

C. THE NETHERLANDS

1. J. M. G. VAN DER POEL, (a) (calculated)

1800

Langstraat, North-Brabant	30,0- 80,0 (high yield)
Etten, North-Brabant	48,0-144,0 (excessive high)
Almelo, Overijssel	16,0- 19,0

2. F. J. B. D'ALPHONSE, 174-175 (calculated)

The whole country	1812	15,0-16,0 (average)
		5,0 (low yield)
		22,0 (high yield)

D. GERMANY

1. O. BÖHME, 92

Ostra, near Dresden

1799-1807	3,5
1809	4,0

2. H. CH. PH. KIESEWETTER, 219

Stade 1807 20,0

3. FR. ARENDS, I 406; II 26; III 95, 102

1818-20

Blokhaus	16,0 (high yield)
Amt Esens	10,7
Helsmoel, new polder	48,0
Generally	10,0-20,0
sometimes	20,0-30,0
in peat-marsh	25,0
	31,0-37,5

MILLET

I. SIXTEENTH CENTURY

A. POLAND

1. A. WAWRZYŃCZYKOWA, (a) 99-119 tables 1-10

Estates of the Cracow Chapter in the voivodship of Sieradz

Estates	1552	1564	1567	1569	1573	av.
Pabianice	4,0	15,0	3,2	3,0	8,2	6,7
Świątniki	7,3	—	1,0	7,3	—	3,2
Dobroń	—	3,4	11,7	4,7	4,0	5,9
Rzgów-Gospodarz	5,1	7,7	8,5	10,0	6,0	7,5
Górka Wielka	7,2	—	0,2	12,0	—	6,5
Wisikitno	8,7	6,0	2,5	9,2	—	6,6
Kurowice	7,0	1,0	—	5,7	12,0	6,4
Brojce	9,0	0,4	—	—	—	—
Dłutów	13,0	7,5	13,5	5,2	15,0	10,8
Górka Mała lub Siekielów	5,9	3,0	1,0	10,0	—	5,0

2. W. PRANDOTA, 164-178, 184 tables 3-10, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1564	1570
Guzów	33,4	17,7
Kaski	8,4	14,3
Korabiewice	8,0	8,5
Czerwonka	18,3	9,4
Wola Szydłowiecka	11,0	12,6
Sokole	—	16,3
Orzyszew	22,0	—
Miedniewice	33,0	—
Duchy of Oświęcim	13,4	—

3. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?)	av.
Stodoły	12,7	—	7,1	7,0	—	14,0	3,0	6,7	8,4
Sobótka	10,0	—	10,0	—	—	—	—	—	—
Makoszyn	8,0	—	10,0	10,0	11,0	5,0	4,5	—	8,1
Samborzec	22,5	—	10,0	13,3	4,3	8,5	7,5	9,0	10,7
Nisko	30,0	—	4,0	4,0	5,7	2,2	6,2	5,4	8,2
Góra	16,0	—	20,0	—	—	—	—	—	—
Strzegocice	—	—	40,0	—	—	—	—	—	—
Pławo	7,5	—	20,0	20,0	18,7	25,0	5,0	25,0	17,2

(Continued)

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?)	av.
Tuszów	12,5	—	6,0	6,0	6,7	2,5	5,0	6,0	6,4
Połaniec	7,0	—	—	—	18,0	12,5	7,0	—	11,1
Strzegom	20,0	—	2,0	2,0	—	1,2	3,7	—	5,8
Osiek	26,7	—	20,0	20,0	20,0	10,0	11,7	8,4	16,7
Bukowa	12,0	—	6,0	6,0	20,0	2,5	4,7	—	8,5
Czajków	—	—	—	—	—	—	0,5	—	—
Chmielów	30,0	—	—	—	8,0	1,0	1,0	—	10,1
Mokrzyszów	60,0	—	5,0	5,0	1,7	—	10,5	—	16,4
Bugocice	22,5	—	22,5	—	—	—	—	—	—
Skotniki	10,0	—	10,0	—	—	—	—	—	—
Zagość	16,0	—	16,0	—	—	—	—	—	—
Konieczmosty	12,5	—	12,5	—	—	—	—	—	—
Strożyska	6,0	—	6,0	—	—	—	—	—	—
Sępichów	10,0	—	10,0	—	—	—	—	—	—
Kocina	9,0	—	9,0	—	—	—	—	—	—
Winiary	12,5	—	12,5	—	—	—	—	—	—
Mędrzechów	6,7	—	6,7	—	—	—	—	—	—
Zwoleń	8,0	—	6,0	—	—	—	—	—	—
Tczów	13,1	4,0	9,0	—	—	—	—	—	8,7
Maków	9,0	—	13,0	—	—	—	—	—	—
Makowiec	6,0	4,7	6,0	—	—	—	—	—	5,6
Brzoza	20,0	9,0	10,0	—	—	—	—	—	13,0
Jedlnia	11,0	9,0	12,0	—	—	—	—	—	10,7
Gzowice	16,0	6,0	6,0	—	—	—	—	—	9,3
Klwatka	20,0	8,0	16,0	—	—	—	—	—	14,7
Mironice i Bielany	13,0	10,0	10,0	—	—	—	—	—	11,0
Kozienice	9,0	—	6,0	—	—	—	—	—	—
Gołąb	19,0	—	13,3	—	—	—	—	—	—
Radkowice	—	—	16,1	—	—	—	—	—	—
Drugnia	14,0	—	16,7	—	—	—	—	—	—
Gacki	8,6	—	8,6	—	—	—	—	—	—
Average of 45 estates	14,5	—	10,9	—	—	—	—	—	—

4. J. LESKIEWICZOWA, 19 table 2

Estates near Osieck	
1564	
Osieck	10,0
Zelazna	16,0
Wola Starogrodzka	10,0
Chrosna	17,4

II. SEVENTEENTH CENTURY

A. POLAND

1. W. PRANDOTA, 164-177, 184 tables 3-8, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1603	1620	1630	1661	av.
Guzów	11,0	16,5	14,0	14,0	18,5
Kaski	12,4	39,0	21,0	40,0	28,1
Korabiewice	7,0	28,0	21,0	20,0	19,0
Czerwonka	-	16,0	20,0	-	-
Wola Szydłowiecka	-	-	-	3,7	-
Sokole	11,0	22,0	26,0	-	17,0
Duchy of Oświęcim	1616	17,0			
	1660	7,0			

2. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1602	1615	1611-5
Stodoły	10,0	-	10,7
Sobótka	-	10,7	-
Makoszyn	10,0	-	3,2
Samorzec	8,0	-	5,7
Nisko	4,0	-	6,7
Góra	-	15,0	-
Strzegocice	-	36,0	-
Pławo	9,0	-	6,0
Tuszów	5,0	-	6,6
Polaniec	3,7	-	7,5
Strzegom	3,5	-	3,5
Osiek	4,9	-	9,2
Czajków	9,0	-	18,0
Chmielów	5,2	-	5,5
Mokrzyszów	5,0	-	-
Bugocice	-	5,3	-
Skotniki	-	4,0	-
Zagość	15,0	16,0	-
Konieczmosty	-	12,5	-
Strożyska	-	11,7	-
Sępichów	-	15,7	-
Kocina	-	10,0	-
Winiary	-	12,0	-
Mędrzechów	-	6,5	-
Tczów	-	9,0	-

(Continued)

Estates	1602	1615	1611-5
Maków	—	133,0	-1)
Makowiec	—	24,0	—
Brzoza	10,0	10,0	—
Jedlnia (1602-15)	—	—	10,0
Gzowice	—	8,0	—
Klwatka	—	12,0	—
Mironice i Bielany	—	6,7	—
Kozienice	8,0	8,0	—
Gołąb	—	15,5	—
Radkowice	—	32,3	—
Drugnia	—	20,4	—
Gacki	—	7,5	—
Average of 45 estates	—	9,5	—

1) Of dubious value

III. EIGHTEENTH CENTURY

A. ITALY

1. A. YOUNG, (e) II 209, 211

1787-9

Milan-Pavia	50,0
Turin	40,0
Codogno, Milanese	48,0

B. GERMANY

1. W. BOELCKE, 142-143

Estates in Upper-Lusatia

Diehmen	1766	8,0
Medewitz	1766	7,0 (? misprint in text)

IV. NINETEENTH CENTURY (-1820)

A. FRANCE

1. STATISTIQUE AGRICOLE, 400-401, 569, 573

1812

Tarbes	34,1
Bellac	400,0
Limoges	400,0-500,0



SPELT

I. NINTH CENTURY

A. FRANCE

1. PH. GRIERSON, 461; see B. H. SLICHER VAN BATH, (a) 76 (supposition); G. DUBY, (d) 85, DUBY's yield ratios: 1,8 and 2,0 are not correct, as he calculates harvests minus sowing-seed

Annappes, near Lille	810	2,8
Cysoing, near Lille	810	3,0

II. SEVENTEENTH CENTURY

A. SWITZERLAND

1. J. J. SIEGRIST, (a) 397

Egliswil	1637	11,5
Fahrwangen	1668	6,9
Hallwil	1675-97	5,7

2. J. J. SIEGRIST, (b) 157

Unterkulm 17th cent. 4,0-7,0

III. EIGHTEENTH CENTURY

A. SWITZERLAND

1. J. J. SIEGRIST, (a) 397

Hallwil 1758-9 6,6

2. J. J. SIEGRIST, (b) 157

Unterkulm 18th cent. 5,0-9,0

IV. NINETEENTH CENTURY (-1820)

A. SWITZERLAND

1. J. N. SCHWERZ, (c) 198 tables a, b and c (calculated)

School of Fellenberg at Hofwyl, near Berne

1811	16,8
1812	9,6
1812	11,1
1813	12,1
av.	12,4

B. GERMANY

1. J. N. SCHWERZ, (b) 166 table VII

Pfeddersheim, Rhine Palatinate

1803	13,2
1804	13,1
1805	11,1
1806	11,1
1807	9,1
1808	10,6
1809	19,5
1810	16,5
1811	4,7
1812	22,4
av.	13,1

MIXED CORN

- A. DREDGE (BARLEY AND OATS)
- B. WHEAT, BARLEY AND PEAS
- C. MASLIN (WHEAT AND RYE)

A. DREDGE (BARLEY AND OATS)

I. THIRTEENTH CENTURY

A. GREAT BRITAIN

1. ANONYMOUS HUSBANDRY, 71

Thirteenth century in England 6,0

2. J. A. RAFTIS, 164-167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire		
Year	Elton	Broughton and Ripton Regis
1252	-	6,5
1297	1,0	-

II. FOURTEENTH CENTURY

A. GREAT BRITAIN

1. A. BALLARD, 450

Wootton, Oxon. 1304-6 2,1

2. J. A. RAFTIS, 164-167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire		
Year	Broughton	Broughton and Ripton Regis
1310	-	0,9
1311	-	3,6
1318	2,0	-
1325	1,7	-

Id., 177-178, table XXXVII, yield ratios (responsio)

Huntingdonshire

Year	Upwood	Wistow	Warboys	Houghton	Slepe	Holywell
1324	1,0+	-	5,0+	2,0	3,5+	6,0-
1336	-	-	-	1,0-	-	-
1342	-	-	5,5+	-	-	-
1343	3,0-	-	-	-	-	-
1352	-	3,5+	-	-	-	-
1359	-	-	4,0+	-	-	-
1360	-	-	11,0-	-	-	-
av.	-	-	6,4	-	-	-

III. SIXTEENTH CENTURY

A. GREAT BRITAIN

1. J. P. COOPER

Walton, Somerset ca. 1583 4,0 (estimation of expected yield)

IV. SEVENTEENTH CENTURY

A. GERMANY

1. H. WIEMANN, 47

Barthe, near Leer, Ostfriesland

1602	2,3
1603	2,7

B. WHEAT, BARLEY AND PEAS

I. THIRTEENTH CENTURY

A. GREAT BRITAIN

1. J. A. RAFTIS, 164-167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire

Year	Upwood	Wistow	Warboys	Broughton and Ripton Regis
1244	—	—	—	3,2
1247	6,5	—	—	—
1250	3,0	8,6	3,5	2,2
1252	7,7	—	—	—
1254	—	—	6,5	—
1297	—	3,2	—	—
1299(?)	3,6	—	—	—
av.	5,2	—	—	—

II. FOURTEENTH CENTURY

A. GREAT BRITAIN

1. J. A. RAFTIS, 164-167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire			
Year	Upwood	Wistow	Warboys
1302 (?)	2,3	—	—
1306	4,0	—	—
1307	—	4,4	4,1
1311	—	3,7	—
1312	2,5	—	—
1318	—	3,4	3,5
1319	3,4	—	—
1324	3,2	—	4,0
1326 (?)	3,3	—	—
1328	—	—	3,7
1335	—	6,6	—
1342	—	—	5,2
1343	1,8	—	—
1346	—	6,5	—
1351	—	3,1	—
av.	2,9	4,6	4,1

C. MASLIN (WHEAT AND RYE)

I. THIRTEENTH CENTURY

A. GREAT BRITAIN

1. ANONYMOUS HUSBANDRY, 71

Thirteenth century in England 6,0

II. FOURTEENTH CENTURY

A. GREAT BRITAIN

1. J. E. THOROLD ROGERS, I 38-45 (calculated)

Manors	Counties	1334	1335	1336
Letherhead	Surrey	0,5	4,7	—
Cambridge	Camb.	—	2,9	6,0
Wolford	Warwick	—	—	10,3

III. SIXTEENTH CENTURY

A. GERMANY

1. O. KIUS, 141-143

near Weimar, 1528-1548: Korn; 1549-1555: Gemang Korn					
1528	2,2	1538	2,9	1548	4,0
1529	1,8	1539	2,8	1549	4,2
1530	1,5	1540	2,6	1550	—
1531	1,9	1541	2,1	1551	5,7
1532	2,8	1542	3,5	1552	5,9
1533	1,1	1543	2,3	1553	5,1
1534	1,5	1544	3,0	1554	5,8
1535	3,6	1545	2,8	1555	5,0
1536	1,6	1546	2,9		
1537	1,1	1547	3,2	av.	3,0

IV. SEVENTEENTH CENTURY

A. GREAT BRITAIN

1. J. P. COOPER

Nibley, Gloucestershire

1615	4,8
1617	5,1

V. EIGHTEENTH CENTURY

A. FRANCE

1. E. APPOLIS, 401

Saint-Jean de la Blaquière, Lodève 1758 4,0

VI. NINETEENTH CENTURY (-1820)

A. FRANCE

1. STATISTIQUE AGRICOLE, 172, 197, 212, 309, 366, 385

Arr.		average	Yields high	low
Châtillon-sur-Seine	1812	3,0		
Montélimar	1812	5,0		
Nyons	1812	5,1		
Rennes	1814	6,0		
Wassy	1812	5,0	6,0	4,0
Clamecy	1812	4,0	6,0	2,5

2. A. PLAISSE, 570

Arr. de Louviers 1812 7,0

BEANS

I. THIRTEENTH CENTURY

A. GREAT BRITAIN

1. ANONYMOUS HUSBANDRY, 71

Thirteenth century in England 6,0

II. FOURTEENTH CENTURY

A. GREAT BRITAIN

1. J. E. THOROLD ROGERS, 138-45 (calculated)

Manors	Counties	1334	1335	1336
Maldon	Surrey	2,0	—	—
Letherhead	Surrey	—	—	1,2
Farley	Surrey	2,0	5,5	2,0
Elham	Kent	6,0	—	—
Cheddington	Bucks.	—	24,0 (?)	2,9
Wolford	Warwick	—	—	4,5
av.		3,3	—	2,6

III. SIXTEENTH CENTURY

A. THE NETHERLANDS

1. B. H. SLICHER VAN BATH, (b) 93

Hitsum, Friesland	
1570	9,5
1571	8,0
1572	7,0
1573	2,0 (flood)
av.	6,6

IV. SEVENTEENTH CENTURY

A. GREAT BRITAIN

1. J. P. COOPER

Nibley, Gloucestershire 1608 4,0

V. EIGHTEENTH CENTURY

A. GREAT BRITAIN

1. A. YOUNG, (a) 53, 65-66, 117, 156, 168, 208

1768

Bury	16,0
Braintree-Chelmsford	14,0-16,0
Lanvachers-Newport	3,7
	7,5 (drilled)
Devizes-Salisbury	12,0
Bruchalk-Romsey	4,0
Ingateston-Chelmsford	12,0

2. A. YOUNG, (b) IV 230-234

1770

Stevenage	8,0	Wentworth	4,0
Houghton, Dunstable	10,0	Driffield	7,0
Broughton	3,3	Yeddingham	6,0
Biddenham	12,0	East Newton	4,0
St. Neot's-Kimbolton	3,7	Nunnington	4,4
Kimbolton-Thrapston	6,0	Schorton	4,4
Grantham-Newark	5,0	Gilling, Richmond	5,0
Newark-Tuxford	5,3	Kiplin	7,5
West Drayton	5,0	Mr. Crowe	7,5
Doncaster-Rotherham	4,5	Swinton	5,3
Ecclesfield, Sheffield	8,6	Danby	5,5
Woolley	6,0	Mr. Scroope	10,3
Leeds-Tadcaster	6,5	Alnwick	9,3
Wilbersfort, York	4,2	Belford	10,0
Hatton, York	8,0	Hetton	5,1
Risby	8,6	Glenwelt	7,3
Stillingfleet	4,4	Holme, Burton	11,5
Holderness	9,1	Kabers	9,0
Howden	5,7	Garslang	6,7
Thorne	6,6	Ormskirk	12,0
Marquis of Rockingham's		Altringham	13,3
Kentish farm	13,3	Bensington	20,0
id. Hertfordshire	12,8		

3. A. YOUNG, (c) IV 243-245

1771

Tring	10,0	Colchester	26,0 (drilled)
Blisworth	5,6	Mr. Arbuthnot	13,5 (drilled)
Glendon	7,1	Thanet	13,1 (drilled)
Mr. Booth, Glendon	10,0	Mr. Turner	10,0 (drilled)
Quenby	4,8	Isle of Wight	16,0
Lawton	5,2	Taunton	4,4
Wombwell, Swaith	8,0	Donnington	12,0 (drilled)
Leverington	6,0	Beaconsfield	5,0

Beans, 18th century

4. G. E. FUSSELL, (b) 164
Leicestershire 1771 4,8

5. A. YOUNG, (i) 231, 234-235 (calculated)

Farm of Mr. Ellman at Glynd, Sussex					
1771	10,7	1777	9,7	1780	9,3
1772	6,3	1778	7,3	1781	11,7
1773	8,0	1779	10,3	1782	8,5
				av.	9,1

6. W. MARSHALL, (a) I 145
Vale of Gloucester 1789 8,0-12,8

7. A. YOUNG, (j) 58-60 (calculated)

Kent 1797 10,7-16,0
Suffolk 1797 8,0-12,0

8. W. MARSHALL, (e) I 128-131
Maidstone 1798 8,0

9. A. YOUNG, (k) 125

1799

Folkingham	7,0	Belesby	5,3
Haxey	9,1	Humberston	6,2
Normanby	6,0	Skirbeck	7,0
Barton	12,0	Claypool	19,0
Mr. Graburn, Barton	10,0	Grimsthorpe	11,6
Brocklesby	8,0		

B. IRELAND

1. A. YOUNG, (d) 238
Drummoland 1776-8 11,4 sometimes 17,1

C. FRANCE

1. CH. LECLERC DE MONTLINOT, 185 (calculated)
Near Lille 1776 10,7

D. ITALY

1. A. YOUNG, (e) II 157, 215, 216
1787-9
Villamagna, Lombardy 3,0
Florence 4,5-5,0
Parma 5,0-6,0

E. THE NETHERLANDS

1. FOEKE SJOERDS, 157

Friesland 1765 10,0

2. J. M. G. VAN DER POEL, (b) 96, 100 (calculated)

Friesland 1779 8,0-12,0

F. GERMANY

1. J. N. VON SCHWERZ, (d) I 288

Near Dortmund 1788-1818 7,1

2. FR. ARENDS, II 169

Larrelter Kolk, near Emden

1794	2,5
1797	4,1

VI. NINETEENTH CENTURY (-1820)

A. FRANCE

1. STATISTIQUE AGRICOLE, 573

Limoges 1812 10,0-12,0

B. BELGIUM

1. J. N. SCHWERZ, (a) I 312

Villages in Flanders

(?Ekeren) polder	1803	12,0
Melle	1803	7,0

C. SWITZERLAND

1. J. N. SCHWERZ, (c) 198 tables a, b and c (calculated)

School of Fellenberg at Hofwyl, near Berne

1812	26,9
1813	31,1

D. GERMANY

1. G. LANGE, 49

Bersdorf, Silesia

1800-10	3,7
1810-20	1,7

Beans, 19th century

2. H. CH. PH. KIESEWETTER, 167, 219

Tönning	1807	13,3
Stade	1807	12,0

3. FR. ARENDS, I 188, 302, 353, 429, 457; II 26, 48, 63 (calculated), 132, 134 (calculated), 159, 244, 271, 283 (calculated); III 116

1818-20

Reiderland	8,0	Amt Friedeburg	8,0- 9,3
Amt Emden	5,3	Harlbucht, new polder	10,7
Amt Pewsum	8,9	Westerburerpolder, Amt	
Westermarsch, Norden	7,3	Esens, first year	8,0- 9,3
Ostermarsch, Amt Berum	7,2	third year	9,3-12,0
Amt Esens	9,3	fifth year	6,7- 8,0
Amt Wittmund	8,8	Alt- und Neubunderpolder	4,8
moderate soil	7,2	Sande, Amt Jever	6,4- 9,6
Generally	9,0	Amt Minsen	10,7-21,3
		Amt Tettens	13,3-16,0

BEANS AND PEAS

I. THIRTEENTH CENTURY

A. GREAT BRITAIN

1. J. A. RAFTIS, 164–167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire

Year	Upwood	Wistow	Warboys	Elton	Broughton and Ripton Regis
1244	—	—	—	—	8,8
1247	1,5	—	—	—	—
1250	7,0	7,5	11,5	—	—
1252	5,2	3,8	—	—	6,5
1254	—	—	9,6	—	—
1286	—	—	—	4,0	—
1297	—	3,5	—	2,9	—
1299(?)	3,2	—	—	—	—
av.	4,2	4,9	—	—	—

II. FOURTEENTH CENTURY

A. GREAT BRITAIN

1. J. A. RAFTIS, 164–167 table XXXVI. Ratio of the yield of the past year to the sowing-seed of the next year

Huntingdonshire

Year	Upwood	Wistow	Warboys	Elton	Broughton	Broughton and Ripton Regis
1301(?)	3,6	—	—	—	—	—
1306	4,2	—	—	—	—	—
1307	—	5,6	2,8	—	—	—
1311	—	2,8	—	3,5	—	3,6
1313	—	—	—	5,0	—	—
1318	—	3,3	3,4	—	1,6	—
1319	2,9	—	—	—	—	—
1324	3,2	—	3,1	3,9	—	—
1325	—	—	—	—	3,7	—
1326(?)	3,0	—	—	—	—	—
1335	—	4,7	3,0	—	—	—
1342	—	—	2,7	—	2,8	—
1343	2,6	—	—	—	—	—
1345	—	—	—	1,9	—	—
1346	—	4,3	—	—	—	—
1349	—	—	—	1,0	—	—
1350	—	—	—	1,0	—	—
1351	—	1,5	—	—	—	—
1368	—	3,4	—	—	—	—

(Continued)

Year	Upwood	Wistow	Warboys	Elton	Broughton	Broughton and Ripton Regis
1378	—	—	—	—	3,3	—
1380	—	—	—	—	2,7	—
1385	3,2	—	—	—	—	—
1386	2,6	—	—	—	2,7	—
1392	2,4	—	—	—	3,8	—
av.	3,1	3,7	3,0	2,7	2,9	—

Id., 175, 178 table XXXVII, yield ratios (responsio)

Huntingdonshire

Year	Up-wood	Wis-tow	War-boys	Elton	Brough-ton	Abbots Ripton	Hough-ton	Slepe	Holy-well
1324	4,0—	—	—	4,0—	—	5,0—	1,5	3,0+	3,5+
1336	—	—	—	—	—	—	3,0+	—	—
1342	—	—	—	—	—	1,5	—	—	—
1343	3,0+	—	—	—	—	—	—	—	—
1344	—	—	4,5+	—	—	—	—	—	—
1347	—	—	6,0+	—	—	—	—	—	—
1348	—	—	5,0—	—	—	—	—	—	—
1349	—	—	—	1,0—	—	—	—	—	—
1350	—	1,5+	—	1,0+	—	—	—	—	—
1351	—	1,0+	—	—	—	—	—	1,0—	—
1353	—	—	1,5—	—	—	—	—	—	—
1356	—	—	4,0—	—	—	—	—	—	—
1359	—	—	5,0+	—	—	—	—	—	—
1363	—	—	1,0+	—	—	—	—	—	—
1364	—	—	—	—	—	1,0—	—	—	3,0+
1366	—	—	4,0—	1,0+	—	—	—	—	—
1371	—	—	3,5—	—	—	—	—	—	—
1372	—	—	—	—	—	—	1,5+	—	—
1373	—	—	4,0—	—	—	—	—	—	—
1375	—	—	1,5—	—	—	—	—	—	—
1377	—	—	4,0—	—	—	—	—	—	—
1378	—	—	1,5+	—	3,0+	—	—	—	—
1379	—	1,5—	1,0+	—	—	—	3,0—	—	—
1380	—	—	—	—	3,0+	—	—	—	—
1383	—	—	—	—	—	—	1,5+	—	—
1385	—	—	—	—	—	1,0—	—	—	—
1386	—	—	—	—	4,0+	—	—	—	—
1387	—	—	—	—	—	—	3,5—	1,5+	—
1388	—	3,0+	—	—	—	—	3,0—	—	—
1389	—	3,5—	—	—	—	1,0+	3,0+	—	—
1392	—	—	—	—	3,0—	—	—	—	—
1393	—	1,0	1,0	—	—	—	—	—	—
1394	—	—	—	—	—	—	—	1,0+	—
1395	—	—	—	—	—	1,5—	4,0	—	—
1396	—	—	—	—	—	1,0	—	—	—
1399	—	—	—	—	—	—	—	—	4,0
av.	—	1,9	3,2	1,7	3,2	1,7	2,7	1,6	3,5

III. FIFTEENTH CENTURY

A. GREAT BRITAIN

1. J. A. RAFTIS, 175, 178 table XXXVII, yield ratios (responsio)

Huntingdonshire

Year	Wistow	Warboys	Holywell
1401	-	-	1,0+
1402	-	-	1,5
1403	1,0+	-	-
1404	-	3,0	1,5+
1405	-	-	3,0
1409	-	-	1,5
1413	-	1,0	-
av.	-	-	1,7

2. J. SALTMARSH, 166

Grantchester, near Cambridge

1456	2,2
1457	2,3

IV. SIXTEENTH CENTURY

A. THE NETHERLANDS

1. B. H. SLICHER VAN BATH, (b) 93

Hitsum, Friesland

1571	3,0
1573	4,0

V. SEVENTEENTH CENTURY

A. GREAT BRITAIN

1. J. P. COOPER

Kampsford, Gloucestershire 1626 4,0

VI. NINETEENTH CENTURY (-1820)

A. SWEDEN

1. J. HILLSTENIUS, 106-107 (calculated, sowing-seed and harvests of whole Sweden)

Average of whole Sweden					
1802	6,2	1809	6,2	1816	5,8
1803	5,8	1810	5,7	1817	6,0
1804	6,3	1811	5,8	1818	5,6
1805	5,7	1812	2,1	1819	4,8
1806	5,9	1813	6,4	1820	6,3
1807	5,3	1814	6,1	av.	5,6
1808	4,8	1815	6,4		

I. THIRTEENTH CENTURY

A. GREAT BRITAIN

1. ANONYMOUS HUSBANDRY, 71

Thirteenth century in England 6,0

2. A. BALLARD, 449

Wootton, Oxon. 1277 2,3 (very low yield)

3. F. M. PAGE, 329 appendix II

Oakington, near Cambridge

1282	2,7
1283	3,9
1292	2,9
1297	4,6
1298	3,9
1299	5,8
av.	4,0

4. F. G. DAVENPORT, 31 n. 3 and appendix VIII, p. XXXVI-XXXVII; R. LENNARD, 16, 20 n. 1

Forncett manor, near Norwich

1273	4,0
1290	3,2
1293	3,5
av.	3,6

5. M. MORGAN, 103 (calculated)

Blakenham, near Bury St. Edmunds

1295	5,8
1299	1,0

6. F. B. STITT, 40-41 table 3 (calculated)

Demesne at Lenton, Nottinghamshire 1297 1,8

II. FOURTEENTH CENTURY

A. GREAT BRITAIN

1. M. MORGAN, 99, 103 (calculated)

Blakenham, near Bury St. Edmunds		Wretham, east of Norwich	
1300	2,9	1304	8,7
1301	2,9	1305	3,0
1302	6,3	1306	3,2
1303	1,6	1307	2,5
1332	1,8	1308	3,5
1333	1,4	1337	3,2
1335	3,4	1338	1,1
1336	3,7	1339	2,0
1337	1,2	av.	3,4
1338	2,6		
1339	4,5		
av.	2,9		

2. A. BALLARD, 450

Wootton, Oxon. 1305 0,4 (very low yield)

3. F. M. PAGE, 329-330 appendix II

Oakington, near Cambridge

1305	5,9
1308	4,0
1320	5,0
av.	5,0

Year	Black peas	White peas	Year	Black peas	White peas
1362	1,8	2,3	1381	3,7	6,0
1363	—	5,2	1382	3,1	5,3
1364	6,8	3,8	1383	4,1	6,0
1365	4,2	7,4	1384	5,5	15,9(?)
1366	4,3	3,7	1385	3,1	5,3
1367	4,0	8,3	1386	3,2	4,5
1368	3,3	4,2	1387	4,1	3,6
1369	2,8	2,8	1388	3,1	7,3
1370	3,6	3,8	1389	5,0	7,8
1371	2,3	—	1390	5,3	—
1372	4,8	4,2	1391	2,9	6,8
1373	5,2	4,5	1392	2,9	9,4
1374	3,7	5,3	1393	4,0	7,1
1375	2,6	4,9	1394	2,1	6,1
1376	3,1	4,0	1395	3,1	6,0
1377	—	4,7	1396	2,0	8,0
1378	3,3	3,3	1397	2,7	3,9
1379	5,2	6,2	1398	2,4	2,3
1380	2,4	5,3	1399	5,6	6,0
			av.	3,7	4,0

4. F. G. DAVENPORT, 31 n. 3 and appendix VIII, p. XXXVI–XXXVII;
R. LENNARD, 21

Forncett manor, near Norwich

1300	5,7
1303	4,1
1304	4,3
1306	1,8
av.	4,0

5. J. E. THOROLD ROGERS, I 38–45; II 622–625 (calculated)

Cuxham, Oxon. 1317 4,9

Manors	Counties	1334	1335	1336
Maldon	Surrey	2,9	—	—
Letherhead	Surrey	1,2	3,0	1,4
Farley	Surrey	5,2	6,7	1,4
Elham	Kent	20,0 (doubtful)	—	—
Gamlingay	Camb.	—	2,2	2,1
Cheddington	Bucks.	7,1	3,6	3,4
Wolford	Warwick	—	11,4(?)	12,8(?)
Cuxham	Oxon.	7,2	4,2	3,4 (white)
				3,3 (grey)
Basingstoke	Hants	3,0	5,4	1,3

6. J. S. DREW, 41 appendix (responsio)

Manors of St. Swithun's priory, Winchester, Silkstead 1332 3,0+

III. FIFTEENTH CENTURY

A. GREAT BRITAIN

1. F. M. PAGE, 330 appendix II

Oakington, near Cambridge

Year	Black peas	White peas
1400	5,0	5,0
1401	—	7,3
1402	4,0	4,0
1403	3,0	—
1404	3,4	3,1
1405	3,4	—
1406	—	1,4
av.	3,8	4,2

2. J. E. THOROLD ROGERS, IV 39 (calculated on the base of the quantities of sowing-seed mentioned I 50)

Manor of the Canterbury Cathedral, Adisham ca. 1460 4,0

3. J. SALTMARSH, 166

Grantchester, near Cambridge

1463	1,3
1464	2,1

B. FRANCE

1. A. PLAISSE, 166, 168—169, tables 35—37 (of dubious value)

Cantaloup, Le Neubourg, Sainte-Vaubourg

1397—1415	av. 2,6 (pois blanc)
1401—15	av. 1,4 (pois gris)

IV. SIXTEENTH CENTURY

A. GREAT BRITAIN

1. J. E. THOROLD ROGERS, IV 745 (calculated on the base of the quantities of sowing-seed mentioned I 50)

Cuxham, Oxon. 1571—80 6,0

B. THE NETHERLANDS

1. B. H. SLICHER VAN BATH, (b) 92

Hitsum, Friesland

Year	Maple peas	Blue peas
1570	20,0	26,0
1571	16,0	24,0
1572	7,5	3,0
1573	5,0	7,0
av.	12,1	15,0

C. GERMANY

1. O. BÖHME, 92

Ostra, near Dresden 1571 4,0

D. DENMARK

1. H. H. FUSSING, (a) 104

Sofieholm, Falster 1583 3,0

E. POLAND

1. A. WAWRZYŃCZYKOWA, (a) 100-124 tables 1-13

Estates of the Cracow Chapter in the voivodship of Sieradz

Estates	1552	'53	'54	'65	'66	'67	'68	'69	'73	av.
Pabianice	0,9	3,8	5,9	2,4	3,7	3,4	9,2	0,7	3,2	3,7
Świątniki	3,5	3,0	3,5	3,6	6,0	3,8	6,8	4,0	—	4,3
Dobroń	—	—	—	1,8	2,2	4,7	5,7	4,7	3,5	3,8
Rzgów-Gospodarz	3,7	3,7	3,5	2,6	2,5	3,6	1,8	3,3	1,7	2,9
Górka Wielka	—	5,7	5,2	2,9	5,0	5,2	4,4	4,7	5,7	4,8
Wiskitno	0,8	2,7	3,1	4,4	2,9	4,8	5,3	6,6	—	3,8
Kurowice	0,9	2,7	1,8	1,5	3,0	2,2	4,0	3,1	3,5	2,5
Brojce	0,6	2,3	—	2,7	3,4	2,7	4,6	—	—	2,7
Dłutow	1,4	2,7	3,5	3,2	4,4	5,7	4,9	4,1	5,3	3,9
Górka Mała lub Siekielów	2,2	2,3	3,5	2,5	—	6,0	4,2	—	2,2	4,0
Brus	—	—	—	—	—	3,7	—	4,8	—	—

2. W. PRANDOTA, 164-178, 184 tables 3-10, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County		1564	1570
Guzów		1,7	7,1
Kaski		5,6	3,5
Korabiewice		6,0	8,2
Wola Szydłowiecka		7,2	7,2
Orzyszew		10,6	—
Miedniewice		7,5	—
Duchy of Oświęcim		8,1	—

3. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?)	av.
Stodoły	5,0	—	3,4	4,1	1,8	4,0	1,5	8,9	4,1
Sobótka	6,7	—	6,7	—	—	—	—	—	—
Makoszyn	4,5	—	4,0	4,0	3,3	1,8	—	—	3,5
Samorzec	3,4	—	4,0	4,0	4,2	4,0	2,5	4,1	3,7
Nisko	2,7	—	1,5	1,5	0,2	0,6	2,5	3,5	1,8
Góra	6,7	—	6,7	—	—	—	—	—	—
Strzegocice	8,0	—	7,5	—	—	—	—	—	—
Pławo	5,0	—	3,0	3,0	5,0	20,0	3,0	5,1	6,3
Tuszów	2,8	—	2,0	2,0	1,2	4,5	1,0	6,7	2,9
Połaniec	3,2	—	2,5	2,5	—	6,0	1,5	1,0	2,8
Strzegom	5,0	—	1,5	1,5	3,0	3,0	3,3	2,7	2,9
Osiek	5,2	—	3,3	3,3	2,5	2,5	1,6	5,3	3,4
Bukowa	4,0	—	2,5	2,5	1,9	3,7	2,0	5,5	3,2

(Continued)

Estates	1564	'67	'69	'71	'86	'88	'89	'89(?)	av.
Czajków	—	—	2,0	2,0	—	—	2,6	5,4	3,0
Mokrzyszów	—	—	2,0	2,0	4,0	—	—	—	2,7
Bugocice	8,7	—	9,9	—	—	—	—	—	—
Skotniki	4,5	—	4,5	—	—	—	—	—	—
Zagość	4,5	—	4,5	—	—	—	—	—	—
Konieczmosty	2,7	—	2,7	—	—	—	—	—	—
Strożyska	4,5	—	4,5	—	—	—	—	—	—
Sępichów	7,5	—	7,5	—	—	—	—	—	—
Kocina	3,4	—	3,4	—	—	—	—	—	—
Winiary	6,2	—	6,2	—	—	—	—	—	—
Mędrzechów	3,4	—	3,4	—	—	—	—	—	—
Gołębiów	2,7	3,3	3,0	—	—	—	—	—	3,0
Zwoleń	4,0	1,2	3,0	—	—	—	—	—	2,7
Tczów	4,4	3,1	3,0	—	—	—	—	—	3,5
Maków	3,0	3,9	2,5	—	—	—	—	—	3,1
Makowiec	3,0	6,7	3,0	—	—	—	—	—	4,2
Brzoza	3,4	4,7	3,3	—	—	—	—	—	3,8
Jedlnia	4,0	1,4	3,5	—	—	—	—	—	3,0
Gzowice	4,5	8,5	2,5	—	—	—	—	—	5,2
Klwatka	10,0	6,0	3,0	—	—	—	—	—	6,3
Wacyń	2,8	3,4	2,5	—	—	—	—	—	2,9
Mironice i Bielany	5,3	14,6	6,7	—	—	—	—	—	8,9
Kozienice	3,0	3,0	4,7	—	—	—	—	—	3,6
Gołąb	4,0	—	6,0	—	—	—	—	—	—
Stare Chęciny	3,4	—	4,0	—	—	—	—	—	—
Radkowice	6,0	—	6,0	—	—	—	—	—	—
Drugnia	6,0	—	4,0	—	—	—	—	—	—
Brzeziny	5,2	—	5,2	—	—	—	—	—	—
Gacki	4,9	—	4,9	—	—	—	—	—	—
Average of 45 estates	4,6	—	4,1	—	—	—	—	—	—

4. J. LESKIEWICZOWA, 19 table 2

Estates near Osieck	
1564	
Osieck	6,8
Żelazna	6,8
Wola Starogrodzka	12,0

5. J. OCHMAŃSKI, 387-388 tables 3-4

Estates near Kobryn	
1597	
Czerewaczycki estates	0,3
Wieżecki estates	4,0
Prużański estates	1,0
Kobryński estates	2,5
Czachecki estates	1,5
Horodecki estates	1,5
Moderate soil	3,4
Poor soil	1,8

F. RUSSIA

1. K. N. ŠČEPETOV, 131–132, table 7

Estates of the Iosifo-monastery at Volokolamsk in a region north of Moscow, 1592.

Starca Makarija Rževskogo		Starca Vas'jana Temkina	
Ivanovskoe	2,2	Uspenskoe	3,5
Spasskoe	1,3 (?)	Balabanovo	4,0
Sudnikovo	0,7	Ragušino	4,0
Kur'janovo	6,3	Belkovo	0,5
Gavrino	4,0	Lestvicyno	3,0
Zubovo	4,3	Vorsino	4,5
Safatovo	3,3	Šestakovo	2,0
Rakitino	1,0	Kondratovo	1,5
		levlevo	4,0
Starca Jakoba Sokolova		Starca Nifonta Golodnogo	
Lukovnikovo	2,5	Očiščevo	8,0
Neverovo	5,5	Krjukovo	6,0
Koz'modem'janskoe	3,0	Bujgorod	6,5
Faustova Gora	2,7	Bykovo	2,0
Starca Antonija Akulova		Novoe	1,3
Balaškovo	8,5	Oboburovo	16,0
Ramenka	7,0	Vejny	8,2
Tryznovo	4,5		
Elinarchovo	5,0		
Turovo	1,9		
Starca Feodosija			
Bužarovo	3,0		
Molečkinovo	2,0		
Retkinovo	4,5		
Gorbovo	3,0		
Savel'evovo	4,0		
Mamošino	4,5		
Beli	4,0		
Angelovo	2,0		

V. SEVENTEENTH CENTURY

A. GREAT BRITAIN

1. J. P. COOPER

Nibley, Gloucestershire

1609	6,2
1614	5,6

2. G. E. FUSSELL, (a) (calculated); B. H. SLICHER VAN BATH, (c) 94

Harwell, Berkshire	
1613	8,0
1614	11,0
1615	5,2
1616	9,3
1617	7,7
1618	7,4
1619	5,7
1620	6,0
av.	7,5

B. GERMANY

1. O. BÖHME, 92

Estates near Dresden

Lohmen		Gorbitz		Ostra	
1631-3	2,7	1651	2,2	1694-9	3,3
1642-7	3,6	1652	3,9		
1651	3,0	1653	2,6		
1680	3,0	1663	3,2		
av.	3,1	1673	3,0		
		1683	0,5		
		1693	1,3		
		av.	2,4		

2. G. HANSEN, 478

Estate near Oldenburg, Holstein

Koselau

1634	1,4
1635	3,8

3. W. KOPPE, 22 table IV

Estates near Oldenburg, Holstein

Cismar and Körnick

1635	4,4	1641	5,9	1648	1,1
1636	3,2	1642	2,2	1649	2,2
1637	3,0	1643	3,6	1650	3,7
1638	1,3	1644	1,7	1651	3,3
1639	3,1	1645	1,7	1652	0,9
1640	6,8	1647	5,5	1653	3,1
				av.	3,2

4. J. HEISIG, 113, 117 (calculated)

Estates in Silesia, Giersdorf 1688-92 3,2

C. DENMARK

1. H. H. FUSSING, (a) 104

Eskildsø, Zealand 1633-4 2,3

D. POLAND

1. W. PRANDOTA, 164-177, 184 tables 3-8, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1603	1620	1630	1661	av.
Guzów	5,5	10,2	7,3	3,3	6,6
Kaski	3,4	9,0	6,6	6,7	6,4
Korabiewice	2,0	6,7	6,7	3,0	4,6
Czerwonka	-	8,0	8,0	5,0	7,0
Wola Szydłowiecka	-	-	-	6,0	-
Sokołe	-	8,0	6,7	3,0	5,9
Duchy of Oświęcim	1616	6,5			
	1660	2,4			

2. A. WAWRZYŃCZYKOWA, (b) 115-178 tables 1-45

Royal estates in the Palatinate of Sandomierz

Estates	1602	1615	1611-5
Stodoły	3,1	-	4,0
Sobótka	-	4,0	-
Janiszów	-	5,6	-
Makoszyn	4,0	-	3,7
Samborzec	3,9	-	1,9
Nisko	3,2	-	3,2
Góra	-	3,8	-
Strzegocice	-	5,3	-
Pławo	1,8	-	1,8
Tuszów	4,7	-	2,6
Połaniec	4,0	-	2,5
Strzegom	1,2	-	2,0
Osiek	2,0	-	3,8
Bukowa	2,5	-	5,0
Czajków	11,5	-	6,0
Chmielów	4,0	-	3,0
Mokrzyszów	5,3	-	1,1
Bugocice	-	2,2	-
Skotniki	-	3,2	-
Zagość	3,0	3,0	-
Konieczmosty	-	2,7	-
Strożyska	-	3,4	-
Sępiczów	-	8,0	-
Kocina	-	5,3	-

(Continued)

Estates	1602	1615	1611-5
Winiary	—	3,0	—
Mędrzechów	—	4,0	—
Gołębiów	—	4,4	—
Zwoleń	—	3,0	—
Tczów	—	2,6	—
Maków	—	8,1	— ¹⁾
Makowiec	—	4,9	—
Brzoza	4,7	4,7	—
Jedlnia (1602-15)	—	—	2,5
Gzowice	—	2,8	—
Klwatka	—	1,7	—
Wacyń	—	11,5	—
Mironice i Bielany	3,0	2,7	—
Kozienice	5,0	5,0	—
Gołąb	—	4,0	—
Stare Chęciny	4,0	4,0	—
Radkowice	7,0	7,5	—
Drugnia	4,0	4,0	—
Brzeziny	—	2,5	—
Gacki	—	3,2	—
Average of 45 estates	—	3,7	—

¹⁾ Of dubious value

3. J. OCHMAŃSKI, 389 table 5

Estates near Kobryn, Czerewaczycki estates 1617 5,0

E. ESTONIA

1. O. LIIV, 162

Kehtna, Rapla	
1683	5,0
1684	3,9
1685	1,9
1686	2,9
av.	3,4

F. RUSSIA

1. F. I. REZNIKOV, 95-96

Villages on the Lower Dvina in the district of Velikij Ustjug
(Morozovica, Straškovo and Korjakina)

1678	3,0-10,0
1682	2,0- 9,0

VI. EIGHTEENTH CENTURY

A. GREAT BRITAIN

1. A. YOUNG, (a) 53, 61, 65-66, 156, 168, 177-178, 180, 208

1768

Bury	10,0
Henningham	16,0
Braintree-Chelmsford	16,0
Devizes-Salisbury	5,0
Bruchalk-Romsey	5,3
Aylesford-Alton	5,0-6,7
Alton-Farnham	6,9
Ingateston-Chelmsford	12,0

2. A. YOUNG, (b) IV 230-234

1770

Hatfield-Welwyn	5,0	Yeddingham	6,0
Stevenage	6,8	East Newton	16,0
Stevenage-Luton	4,2	Nunnington	6,4
Houghton, Dunstable	10,7	Kirkleatham	6,7
Milton, Dunstable	6,0	Schorton	8,0
Pagnel, Wooburn	5,0	Gilling, Richmond	5,3
Broughton	5,0	Rookby	8,5
Biddenham	8,0	Kiplin	6,7
St. Neot's-Kimbolton	3,0	Mr. Crowe	8,0
Casterton	6,7	Swinton	9,6
Stamford-Grimsthorp	4,6	Craickhill	15,0
Newark-Tuxford	6,9	Sleningford	4,0
West Drayton	8,0	Danby	8,0
Bawtrey-Doncaster	4,7	Raby-castle	12,0
Ecclesfield, Sheffield	6,7	Alnwick	7,0
Woolley	5,0	Belford	6,2
Leeds-Tadcaster	4,7	Hetton	3,7
Wilbersfort, York	4,2	Fenton	5,7
Hatton, York	5,0	Rothbury	5,0
Risby	4,6	Glenwelt	3,0
Marquis of Rockingham's		Ascot, Carlisle	5,0
Kentish farm	6,6	Penrith	8,0
id. Hertfordshire	8,0	Holme, Burton	4,7
Wentworth	6,9	Kabers	10,0
Driffield	8,0	Shenston, Litchfield	7,5
		Aston, Birmingham	6,7
		Hagley	8,6
		North Mims	8,0

3. A. YOUNG, (c) IV 243-245

1771

Hempstead	8,3	Gateford	8,8
Tring	5,0	Wombwell, Swaith	8,0
Hazelbeeche	2,0	Bootham	8,0
Glendon	6,4	Canwick	4,7
Chesterfield	5,3	Runcton, Lynn	5,0
Lawton	8,8	Warham	6,7
Aylsham	7,0	Sheffield place	6,0
Earlham	6,0	Isle of Wight	8,0
Bracon Ash	8,0	Alresford	4,0
Flegg	6,7	Gilbury	5,0
Hastead	10,0	Moreton	4,0
Colchester (drilled)	16,0	Taunton	5,7
Youngsberry	4,0	Donnington (drilled)	8,0
Beaksburn (drilled)	9,3	Harleyford (drilled)	9,3
Thanet (drilled)	8,0	Beconsfield	5,7

4. A. YOUNG, (i) 231, 234-235 (calculated)

Farm of Mr. Ellman at Glynd, Sussex

1771	7,6	1777	4,2	1783	6,2
1772	4,8	1778	4,6	1784	3,6
1774	6,4	1779	7,0	1786	5,8
1775	5,2	1781	3,2	1787	8,0
1776	4,0	1782	8,0	av.	5,6

5. A. YOUNG, (g) 148 (calculated)

Wokingham, near Reading 1786 6,7

6. A. YOUNG, (h) 37 (calculated)

St. Clear 1787 10,0

7. A. YOUNG, (k) 117-118, 125

Mr. Hoyte, Osbornby 1799 9,3
 Mr. Parkinson, Asgarby 1799 24,0 (drilled)

B. IRELAND

1. A. YOUNG, (d) 59, 80

Shaen castle 1776-8 6,7-13,3
 Bargie and Forth 1776-8 3,3-13,3

C. FRANCE

1. E. MIREAUX, 322-331 appendix IV (calculated)

Noisy-le Grand, Brie 1732-5 2,0 (pois gris)

Peas, 18th century

2. A. PLAISSE, 569 (estimation)

Le Neubourg 1779 1,3

D. THE NETHERLANDS

1. FOEKE SJOERDS, 157

Friesland 1765 10,0

2. J. M. G. VAN DER POEL, (b) 96, 100 (calculated)

Friesland 1779 7,0-9,0

E. GERMANY

1. W. BOELCKE, 142-143

Estates in Upper-Lusatia

1766	
Drauschkowitz	1,5
Gaussig	1,8
Diehmen	2,2
Medewitz	0,6

2. G. LANGE, 49

Bersdorf, Silesia

1770-80	3,3
1780-90	2,8
1790-1800	4,5
av.	3,5

3. O. BÖHME, 92

Estates near Dresden

Gorbitz	1791	4,0
Lohmen	1777-9	3,3
	1789	1,6
	1799	3,0
av.		2,6

4. C. G. ANTON, 192

Oberneundorf, near Görlitz, Lusatia 1787 3,0-6,0

5. J. N. VON SCHWERZ, (d) I 288

Near Dortmund 1788-1818 8,0

F. LATVIA

1. E. DUNSDORFS, 189 (calculated)

Estimation of to.al produce of Vizdeme, N.W. Latvia 1786 3,4

G. RUSSIA

1. F. I. REZNIKOV, 95-96

 Villages on the Lower Dvina in the district of Velikij Ustjug
 (Morozovica, Straškovo and Korjakina)

1710	2,0-5,0
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 Villages of the cloister of Troïce-Gledenskij

1710	4,6
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2. A. M. RAZGON, 233

Demesne Ivanov, Vladimir	1782	0,5
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VII. NINETEENTH CENTURY (-1820)

A. GREAT BRITAIN

1. A. YOUNG, (1) 102-103 (calculated)

 1808

Sussex	4,0-8,0	sometimes 10,0	
Mr. Ellman, Glynd	11,0 (broadcast)		
Mr. Carr, Bedingham	8,0 (drilled)		
Mr. Davies, Glynd	4,0 (drilled)		
West Grinstead	2,5	Hitchingfield	4,0
Slaugham	2,5	Warneham	5,0
Worth	3,0	Horsham	5,0
Rusper	3,0	Slingfold	5,0
Balcomb	3,5	Pulborough	5,0
Horsham	3,5	Chiltington	5,0
Ifield	4,0	Shipley	5,0
Cuckfield	4,0	Hursterpoint	6,0
Rudgwick	4,0	Albourne	6,0
Kindford	4,0	Bolney	6,0
Wisperer-green	4,0	Haylsham	7,5
Billinghurst	4,0	Ditchling	7,5

B. FRANCE

1. STATISTIQUE AGRICOLE, 140, 197, 212, 243, 366-367, 505, 573

 1812

Arr.	average	Yields		
		high	moderate	low
Lisieux		7,5	6,0	4,5
Montélimar	15,0			
Nyons	6,0			
Dreux	6,0- 7,0			
Wassy	5,0			
Rambouillet	4,0-10,0			
Limoges	10,0-12,0			

Peas, 19th century

C. BELGIUM

1. M. FAIPOULT, 123 (calculated)

Dép. de l'Escaut 1805 42,5 (rather doubtful)

D. SWITZERLAND

1. J. N. SCHWERZ, (c) 198 tables *a*, *b* and *c* (calculated)

School of Fellenberg at Hofwyl, near Berne

1812	17,3
1813	8,4

E. GERMANY

1. G. LANGE, 49

Bersdorf, Silesia

1800-10	4,0
1810-20	2,7

2. O. BÖHME, 92

Estates near Dresden

Ostra		Gorbitz		Lohmen	
1799-1807	5,5	1820	5,0	1820	3,2
1809	6,0				

3. FR. ARENDS, I 429; III 418

Westermarsch, Norden 1818-20 7,2- 9,0

Generally 1818-20 5,3-10,0 sometimes 15,0

F. DENMARK

1. H. CH. PH. KIESEWETTER, 140

Alsén 1807 6,0

G. SWEDEN

1. G. UTTERSTRÖM, I (1957) 201 table 11, 203 table 12 (calculated, Utterström gives harvests minus sowing-seed)

Björnö in Uppland

1802	4,4	1809	26,1	1816	7,3
1803	8,5	1810	5,0	1817	13,6
1804	11,3	1811	6,0	1818	10,2
1805	7,6	1812	-	1819	6,6
1806	8,1	1813	5,0	1820	8,1
1807	2,9	1814	13,2	av.	9,1
1808	3,5	1815	16,8		

(Continued)

<hr/> Bysta in Närke <hr/>	
1816	9,3
1817	8,0
1818	15,3
1819	9,0
1820	6,3
av.	9,6

VETCHES

I. FOURTEENTH CENTURY

A. GREAT BRITAIN

1. J. S. DREW, 41 appendix (responsio)

Manors of St. Swithun's priory, Winchester, Silkstead 1332 3,0

2. J. E. THOROLD ROGERS, I 38–45 (calculated)

Manors	Counties	1334	1335	1336
Maldon	Surrey	—	4,0	5,3
Letherhead	Surrey	1,0	3,0	0,6
Farley	Surrey	—	4,1	0,9
Cuxham	Oxon.	0,7	1,0	—
Basingstoke	Hants	1,0	2,2	2,7
av.		0,9	2,9	2,4

N.B. The figures of Cambridge (1335) and Elham (1336) are not reliable

II. FIFTEENTH CENTURY

A. GREAT BRITAIN

1. J. E. THOROLD ROGERS, IV 39 (calculated on the base of the quantities of sowing-seed mentioned I 50)

Manor of the Canterbury Cathedral, Adisham ca. 1460 4,0

B. FRANCE

1. A. PLAISSE, 166, 168–169, tables 35–37 (of dubious value)

Cantaloup, Le Neubourg, Sainte-Vaubourg 1397–1415 av. 1,3

III. SIXTEENTH CENTURY

A. GREAT BRITAIN

1. J. P. COOPER

Walton, Somerset ca. 1583 8,0 (estimation of expected yield)

B. GERMANY

1. O. BÖHME, 92

Ostra, near Dresden 1571 2,5

IV. SEVENTEENTH CENTURY

A. GREAT BRITAIN

1. G. E. FUSSELL, (a) (calculated)

Harwell, Berksh.	
1613	4,7
1614	9,4
1615	2,3
1619	7,5
1620	7,5
av.	5,2

B. GERMANY

1. O. BÖHME, 92

Estates near Dresden

Lohmen		Gorbitz		Gorbitz	
1642-7	2,7	1651	1,5	1663	3,5
1651	2,0	1652	2,6	1673	3,0
1680	7,3	1653	2,7	1683	1,7
av.	4,0			1693	0,8
				av.	2,1

V. EIGHTEENTH CENTURY

A. FRANCE

1. E. APPOLIS, 401

Saint-Jean de la Blaquièrre, Lodève	1758	4,0 (vesces)
		5,0 (ers)

2. A. PLAISSE, 569 (estimation)

Le Neubourg	1779	2,2
		2,1

B. ITALY

1. A. YOUNG, (e) II 157

Villamagna, Lombardy	1787-9	4,0
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C. GERMANY

1. W. BOELCKE, 142-143

Estates in Upper-Lusatia	
1766	
Gaussig	1,2
Diehmen	3,1
Medewitz	0,4

Vetches, 18th - 19th centuries

2. O. BÖHME, 92

Estates near Dresden

Lohmen		Gorbitz		Ostra	
1777-9	1,4	1791	4,0	1799-1807	3,8
1789	2,5				

3. C. G. ANTON, 192

Oberneundorf, near Görlitz, Lusatia 1787 3,0-6,0

4. J. N. VON SCHWERZ, (d) I 288

Near Dortmund 1788-1818 9,2

VI. NINETEENTH CENTURY (-1820)

A. FRANCE

1. STATISTIQUE AGRICOLE, 140, 238, 505

1812

Arr.	average	Yields	
		high	low
Lisieux	4,0	5,0	3,0
Chateaudun	6,0	8,0	2,0
Rambouillet	-	8,0	3,0

B. GERMANY

1. G. LANGE, 49

Bersdorf, Silesia

1800-10	3,1
1810-20	3,6

2. O. BÖHME, 92

Estates near Dresden

Ostra		Gorbitz		Lohmen	
1799-1807	3,8	1820	5,0	1820	4,2
1809	5,0				

COLE-SEED

I. EIGHTEENTH CENTURY

A. THE NETHERLANDS

1. FOEKE SJOERDS, 157

Friesland 1765 160,0

2. J. M. G. VAN DER POEL, (b) 96, 100 (calculated)

Friesland 1779 196,0-256,0

B. GERMANY

1. J. C. FREESE, 367

Ostfriesland 1796 160,0-176,0 (new polders)
160,0 (old land)

NB. The yield in the new polders is 10-11 tons per Diemat against on the old land 5-6 tons, but in the new polders $\frac{1}{18}$ ton of sowing-seed has to be used and on the old land only $\frac{1}{22}$ ton.

II. NINETEENTH CENTURY (-1820)

A. FRANCE

1. STATISTIQUE AGRICOLE, 569, 573

Bellac	1812	580,0
Limoges	1812	350,0-400,0

B. GERMANY

1. O. BÖHME, 92

Estates near Dresden

Ostra	1799-1807	39,0
Gorbitz	1820	72,0

2. FR. ARENDS, I 188, 302, 353, 429, 457; II 26, 48, 63 (calculated), 132, 134 (calculated), 159, 271, 283 (calculated), 298

1818-20

Reiderland	144,0	Harlbucht	126,0-144,0
Amt Emden	185,1	Westerburerpolder	96,0-160,0
Amt Pewsum	160,0	Alt- und Neubunderpolder	216,0
Westermarsch, Norden	113,0-132,0	Landschafts- und Heinitzpol- der	216,0
Ostermarsch, Amt Berum	144,0	Amt Minsen	84,0-252,0
Amt Esens	96,0	Amt Tettens	140,0-154,0
Amt Wittmund	114,2	Knyphausen	100,8-184,4
Amt Friedeburg	96,0-128,0		

I. SIXTEENTH CENTURY

A. POLAND

1. W. PRANDOTA, 164-178, 184 tables 3-9, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1564	1570
Guzów	5,4	4,0
Kaski	3,2	-
Korabiewice	2,5	-
Czerwonka	2,0	-
Wola Szydłowiecka	4,0	-
Orzyszew	6,7	-
Duchy of Oświęcim	3,4	-

2. J. LESKIEWICZOWA, 19 table 2

Estates near Osieck	
1564	
Osieck	1,7
Żelazna	5,3
Wola Starogrodzka	3,0

B. RUSSIA

1. K. N. ŠČEPETOV, 131-132, table 7

Estates of the Iosifo-monastery at Volokolamsk in a region north of Moscow. 1592

Starca Makarija Rzevskogo		Starca Vas'jana Temkina	
Spasskoe	1,0	Uspenskoe	0,7
Sudnikovo	0,5	Balabanovo	1,5
Kur'janovo	0,7	Ragušino	1,0
Gavrino	2,0	Lestvicyno	1,3
Zubovo	0,7	Vorsino	1,0
Safatovo	2,0	Šestakovo	1,0
		Kondratovo	1,0
		Ievlevo	0,5
Starca Jakoba Sokolova		Starca Nifonta Golodnogo	
Lukovnikovo	0,5	Očiščevo	1,2
Neverovo	1,0	Krjukovo	1,0
Koz'modem'janskoe	1,0	Bujgorod	1,3
		Novoe	3,3
Starca Antonija Akulova		Oboburovo	1,3
Balaškovo	1,8	Vejny	5,0
Ramenka	1,0		
Tryznovo	0,5		
Elinarchovo	1,0		
Turovo	1,0		

(Continued)

 Estates of the Iosifo-monastery at Volokolamsk in a region north of Moscow. 1592

Starca Feodosija

Bužarovo	1,0
Molečkinno	0,7
Retkinno	1,0
Gorbovo	0,5
Savel'evo	1,5
Mamošino	0,6
Beli	1,2
Angelovo	1,0

II. SEVENTEENTH CENTURY

A. POLAND

1. W. PRANDOTA, 164–172 tables 3–5

 Crown estates in Sochaczew County

1603	
Guzów	7,5
Kaski	2,2
Korabiewice	8,0

III. EIGHTEENTH CENTURY

A. LATVIA

1. E. DUNSDORFS, 189 (calculated)

Estimation of total produce of Vizdeme, N.W. Latvia 1786 3,0

IV. NINETEENTH CENTURY (–1820)

A. FRANCE

1. STATISTIQUE AGRICOLE, 366–367, 569, 573

 1812

Wassy	3,5 (soils of first quality)
	3,0 (soils of second quality)
	2,5 (soils of third quality)
Limoges	1,5–2,0
Bellac	1,2

Hemp, 19th century

B. GERMANY

1. G. LANGE, 49

<u>Bersdorf, Silesia</u>	
1800-10	3,2
1810-20	3,8

2. FR. ARENDS, I 195

Weninger Moor, Georgiwold 1818-20 5,0-6,0

LINSEED

I. SIXTEENTH CENTURY

A. POLAND

1. W. PRANDOTA, 164-178, 184 tables 3-19, 12; J. LESKIEWICZOWA, 45 table 7

Crown estates in Sochaczew County	1564	1570
Guzów	7,0	5,0
Kaski	4,0	-
Korabiewice	5,0	-
Czerwonka	1,7	-
Orzyszew	3,0	-
Duchy of Oświęcim	3,2	-

2. J. LESKIEWICZOWA, 19 table 2

Estates near Osieck	
1564	
Osieck	2,5
Zelazna	3,0
Wola Starogrodzka	2,3
Chrosna	5,5

II. SEVENTEENTH CENTURY

A. GERMANY

1. J. HEISIG, 113, 117 (calculated)

Giersdorf, Silesia 1688-92 1,1

B. POLAND

1. W. PRANDOTA, 164-175 tables 3-7

Crown estates in Sochaczew County	1603	1661
Guzów	1,6	-
Kaski	3,6	-
Korabiewice	8,0	-
Wola Szydłowiecka	-	2,0

III. EIGHTEENTH CENTURY

A. GERMANY

1. J. HEISIG, 113, 117 (calculated)

Estates in Silesia

Giersdorf		Kynast	
1700	1,3	1761-70	1,5
1709	1,1		
1712	1,3		
av.	1,2		

2. W. BOELCKE, 142-143

Estates in Upper-Lusatia

1766	
Drauschkowitz	1,3
Gaussig	0,7
Diehmen	0,3
Medewitz	0,6

3. G. LANGE, 49

Bersdorf, Silesia

1770-80	1,3
1780-90	1,2
1790-1800	0,7
av.	1,1

B. LATVIA

1. E. DUNSDORFS, 189 (calculated)

Estimation of total produce of Vizdeme, N.W. Latvia 1786 2,5

C. RUSSIA

1. A. M. RAZGON, 233

Demesne Ivanov, Vladimir 1782 0,5

IV. NINETEENTH CENTURY (-1820)

A. FRANCE

1. STATISTIQUE AGRICOLE, 569

Bellac 1812 3,0

Linseed, 19th century

B. GERMANY

I. G. LANGE, 49

Bersdorf, Silesia

1800-10	0,9
1810-20	0,7

POTATOES

I. EIGHTEENTH CENTURY

A. IRELAND

1. A. YOUNG, (d) 161, 183, 238, 255

1776-8

Ballyshannon	7,0-8,0
Strokestown	12,5
Drummoland	8,0
Mallow	7,0

B. FRANCE

1. CH. LECLERC DE MONTLINOT, 185 (calculated)

Near Lille 1776 16,0

C. GERMANY

1. W. BOELCKE, 142-143

Estate in Upper-Lusatia

Medewitz 1766 4,1 (or 5,5?; misprint in text)

2. O. BÖHME, 92

Lohmen, near Dresden 1777-9 5,8

3. C. G. ANTON, 192

Oberneundorf, near Görlitz, Lusatia 1787 8,0-10,0

II. NINETEENTH CENTURY (-1820)

A. GREAT BRITAIN

1. A. YOUNG, (l) 117-118 (calculated)

1808

Mr. Peachey, Chichester	20,0-25,0
Mr. Mayo, Battel	17,5-25,0
Mr. Gilbert, Eastbourne	15,0-25,0
Mr. Calverley, Broad	35,0-43,8
Mr. Fuller, Heathfield	20,0-22,5
General Murray	20,0-25,0

B. FRANCE

1. STATISTIQUE AGRICOLE, 58, 197, 212, 223-224, 309, 366-367, 432, 505, 517, 569, 573

Arrondissements		
Briançon	1812	6,0- 7,0
Montélimar	1812	7,0
Nyons	1812	20,0
Valence	1812	15,0
Rennes	1814	12,0
Wassy	1812	6,0
dép. du Rhône	1816	6,0
Rambouillet	1812	7,5-37,5
Melle	1814	10,0
Bellac	1812	35,0
Limoges	1812	35,0-40,0

C. BELGIUM

1. M. FAIPOULT, 122

Dép. de l'Escaut 1805 3,5 (red potatoes for human consumption)
7,0 (white potatoes for fodder)

D. GERMANY

1. FR. ARENDS, III 161 (calculated)

Yields of a garden of Arends at Tütelburg, near Loppersum, Ostfriesland

1810	21,2
1811	16,2
1812	10,5
1813	13,1
1814	19,4
av.	16,1

2. FR. ARENDS, III 154

Loppersum, Ostfriesland

1810	12,6
1811	13,0
1814	15,4
av.	13,7

3. FR. ARENDS, I 200, 406, 428-429; III 161

1818-20	
Wymeer	15,0
Blokhaus	6,0- 8,0
Norden, sand	8,0-12,0
peat	14,0-20,0
clay	16,0-20,0
Generally	8,0-15,0

Potatoes, 19th century

E. SWEDEN

1. J. HILLSTENIUS, 106-107 (calculated, sowing-seed and harvests of whole Sweden)

Average of whole Sweden					
1802	8,5	1809	9,0	1816	8,9
1803	7,0	1810	9,0	1817	9,4
1804	8,8	1811	7,8	1818	7,8
1805	8,6	1812	6,2	1819	7,7
1806	7,8	1813	8,6	1820	10,3
1807	7,4	1814	8,0	av.	8,3
1808	7,9	1815	8,8		

2. G. UTTERSTRÖM, I (1957) 203 table 12 (calculated, Utterström gives harvests minus sowing-seed)

Bysta in Närke	
1818	4,5
1819	8,5
1820	10,9
av.	8,0

APPENDIX

Appendix

RUSSIA, 1820-1850

1. N. M. DRUŽININ, I (1946) 401, 409

Government of	Year	Winter-rye	Spring-rye
Kursk	1836-40	8,0	6,0
Tambov	1836-40	8,0	6,0

2. P. I. LYASHCHENKO, 324

Fifty provinces of European Russia; grain, not specified

1801-10	3,5
1811-20	3,5
1821-30	3,4
1831-40	3,4
1841-50	3,6
av.	3,5

3. PL. STORCH, 185-189

European Russia

Year	Wheat	Rye
1834	3,0	4,0
1835	3,5	4,0
1836	3,7	4,1
1837	3,7	3,5
av.	3,5	3,9

	1840	'41	'42	'43	'44	'45	'46	'47	av.
<i>a. Crown (state) peasants</i>									
Winter-grain	-	3,7	3,7	4,0	3,8	3,5	3,0	3,0	3,5
Spring-grain	-	4,4	4,1	3,7	3,5	3,2	3,4	3,4	3,5
<i>b. Peasants of the estates of the imperial family</i>									
Winter-grain	1,9	-	-	4,5	-	4,5	-	3,9	3,7
Spring-grain	3,8	-	-	4,1	-	3,5	-	3,6	3,7
<i>On common fields</i>									
Winter-grain	-	5,6	7,3	-	8,0	-	6,2	-	6,8
Spring-grain	-	2,5	6,1	-	4,0	-	5,3	-	4,5
<i>On peasant fields</i>									
Winter-grain	-	2,9	3,9	-	4,5	-	3,2	-	3,6
Spring-grain	-	1,6	3,9	-	3,0	-	3,4	-	3,0
<i>c. State peasants with equestrian designation</i>									
<i>On common fields</i>									
Winter-grain	-	-	-	9,0	6,4	5,5	3,0	4,0	5,6
Spring-grain	-	-	-	3,6	4,6	4,0	5,5	4,0	4,3

(Continued)

	1840	'41	'42	'43	'44	'45	'46	'47	av.
<i>On peasant fields</i>									
Winter-grain	—	—	—	5,8	5,2	6,0	3,5	3,6	4,8
Spring-grain	—	—	—	3,0	3,2	3,3	4,7	4,4	3,7
<i>d. Landowners' peasants</i>									
Winter-grain	2,6	3,2	4,1	4,7	3,8	3,4	3,0	3,3	3,5
Spring-grain	4,2	2,5	4,2	3,8	3,3	2,9	3,0	3,4	3,4
<i>e. Averages of whole Russia</i>									
Winter-grain	2,6	3,4	4,0	4,5	3,8	3,5	3,0	3,3	3,5
Spring-grain	4,2	3,1	4,2	3,8	3,4	3,0	3,2	3,4	3,5
<i>f. Crown (state) peasants, paying in kind or in cash in commutation of compulsory labour (obrok)</i>									

1847

Governments ¹⁾	Winter-grain	Spring grain
Archangel	4,4	4,1
Astrachan	0,6	3,4
Bessarabien	4,1	3,5
Charkow	2,9	3,5
Cherson	2,4	2,2
Jaroslaw	2,3	1,1
Jekaterinoslaw	2,2	3,1
Kaluga	2,0	2,6
Kostroma	2,6	2,8
Kursk	2,4	3,6
Moskwa	2,5	3,0
Nishni-Nowgorod	3,2	3,0
Nowgorod	2,8	2,3
Olonez	4,3	3,8
Orel	3,2	3,8
Orenburg	3,0	2,7
Pensa	4,5	3,7
Perm	4,7	3,7
Poltawa	3,2	3,0
Pskow	3,5	2,3
Räsan	3,3	4,7
St. Petersburg	4,0	3,7
Saratow	2,8	4,3
Smolensk	2,3	2,3
Stawropol	6,5	7,7
Tambov	2,2	3,6
Taurien	2,7	4,8
Tschernigow	4,2	3,6
Tula	3,1	3,5
Twer	1,8	2,3
Wjätka	3,2	3,5
Wladimir	2,5	2,3
Wologda	3,7	3,4
Woronesh	1,1	2,7
av.	2,9	3,3

1) Names of the governments in the orthography of Storch

Appendix

(Continued)

g. Crown (state) peasants, charged with compulsory labour (barshchina)

1847

Governments ¹⁾	Winter-grain	Spring-grain
Esthland	4,3	3,5
Grodno	4,1	3,3
Kiew	4,5	2,8
Kowno	3,3	2,6
Kurland	5,0	3,9
Livland	4,3	3,5
Minsk	3,2	2,5
Mohilew	2,6	2,1
Podolien	3,4	2,7
Wilna	3,6	2,7
Witebsk	2,2	2,2
Wolhynien	2,4	2,6
av.	3,6	2,8
Foreign colonists	4,1	5,4
av. 1846	2,8	3,4
av. 1847	3,4	3,3

¹⁾ Names of the governments in the orthography of Storch