

University of Cambridge,  
Department of Agriculture

Farm Economics Branch

Report No. 9

(Issued July, 1928)



*100 farms  
by the Costing Method*

✓ Sugar Beet in the  
Eastern Counties,

1927

Being an Investigation into the Financial Results obtained on  
One Hundred Farms and Some of the Factors Influencing Them

BY

R. MCG. CARSLAW, M.A. (Dip. Agric. Econ.)

C. BURGESS, B.A. (Dip. Agric. Econ.) and

G. LL. ROGERS, M.A. (Out-door Representative).

WITH A FOREWORD BY

J. A. VENN, M.A.

(Fellow of Queens' College, Gilbey Lecturer and Advisory Economist).

1.87.311

8

399

W. HEFFER & SONS LTD, CAMBRIDGE

1928

THREE SHILLINGS NET.

University of Cambridge  
Department of Agriculture

Farm Economics Branch

Report No. 9

*(Issued July, 1928)*



Sugar Beet in the  
Eastern Counties,  
1927

Being an Investigation into the Financial Results obtained on  
One Hundred Farms and Some of the Factors Influencing Them

BY

R. MCG. CARSLAW, M.A. (Dip. Agric. Econ.)

C. BURGESS, B.A. (Dip. Agric. Econ.) and

G. LL. ROGERS, M.A. (Out-door Representative).

WITH A FOREWORD BY

J. A. VENN, M.A.,

(Fellow of Queens' College, Gilbey Lecturer and Advisory Economist).

W. HEFFER & SONS LTD, CAMBRIDGE

1928

X9(U331):87.311  
F8

## Farm Economics Branch, 1928.

---

### STAFF

#### *Head of the Branch*

J. A. VENN, M.A.,  
Fellow of Queens' College,  
Gilbey Lecturer in the History and Economics of Agriculture, Adv  
Economist.

---

R. McG. CARSLAW, M.A., Dip. Agric. Econ.

G. LI. ROGERS, M.A., Dip. Agric. Econ.

C. BURGESS, B.A., Dip. Agric. Econ.

#### *Student Assistants*

W. H. KIRKPATRICK, C.D.A.(Glas.)

T. J. HUNT.

#### *Temporary Assistant*

P. E. GRAVES.

# Table of Contents

	<i>Page</i>
FOREWORD BY J. A. VENN, M.A., Fellow of Queens' College, Gilbey Lecturer, and Advisory Economist - - - - -	vi
SOME OBSERVATIONS ON THE POSITION OF BEET GROWING IN THE EASTERN COUNTIES - - - - -	ix
CHAPTER I.	
1. INTRODUCTION - - - - -	1
2. METHOD OF OBTAINING STATISTICS - - - - -	2
3. COSTINGS METHODS - - - - -	4
4. RESIDUAL MANURIAL AND CULTIVATION VALUES - - - - -	6
(a) Brought forward - - - - -	6
(b) Carried forward - - - - -	7
5. VALUE OF SUGAR BEET TOPS - - - - -	8
(a) As a Manure - - - - -	8
(b) As a Food - - - - -	9
CHAPTER II.	
1. FIELD DATA - - - - -	11
2. MANURING - - - - -	13
3. YIELDS - - - - -	15
4. TARE - - - - -	16
5. SUGAR CONTENT - - - - -	17
CHAPTER III.	
1. INFLUENCE OF TIME OF DELIVERY UPON SUGAR CONTENT - - - - -	19
2. WEATHER CONDITIONS - - - - -	21
3. HAULAGE AND TRANSPORT - - - - -	25
CHAPTER IV.	
1. OVER-ALL COSTS PER ACRE AND PER TON - - - - -	30
2. OVER-ALL RETURNS PER ACRE AND PER TON - - - - -	32
3. RESULTS GROUPED ACCORDING TO SOIL TYPE - - - - -	34
(a) Size of Field - - - - -	36
(b) Yield, Tare and Sugar Content - - - - -	37
(c) Sugar per Acre and per <i>£</i> Labour - - - - -	37
(d) Costs - - - - -	38
(e) Receipts, Profits and Losses - - - - -	40

CHAPTER V.

1. INFLUENCE OF SIZE OF FIELD	-	-	-	-	-	-	-	-	-
2. INFLUENCES OVER WHICH THE GROWER HAS SOME CONTROL	-	-	-	-	-	-	-	-	-
(a) Farm-yard Manure	-	-	-	-	-	-	-	-	-
(b) Subsoiling	-	-	-	-	-	-	-	-	-
(c) Farm-yard Manure and Subsoiling	-	-	-	-	-	-	-	-	-
(d) Preceding Crop	-	-	-	-	-	-	-	-	-
(e) Rate of Seeding	-	-	-	-	-	-	-	-	-
(f) Date of Drilling	-	-	-	-	-	-	-	-	-
(g) Distance between Drills	-	-	-	-	-	-	-	-	-
(h) Ridge and Flat Work	-	-	-	-	-	-	-	-	-

CHAPTER VI.

1. CASUAL LABOUR	-	-	-	-	-	-	-	-	-
2. PULP	-	-	-	-	-	-	-	-	-
3. IMPLEMENTS	-	-	-	-	-	-	-	-	-
4. RISK OF FAILURE	-	-	-	-	-	-	-	-	-
5. COST OF PRODUCING GRANULATED WHITE SUGAR	-	-	-	-	-	-	-	-	-

---

---

**List of Diagrams**

I. Distribution of Costed Fields in relation to the Factories	-	-	xii
II. Form used for Collection of Basic Data	-	-	3
III. Comparison of Results of Sugar Analyses at two Factories situated in the same Locality	-	-	18
IV. Influence of Time of Delivery on Sugar Content	-	-	20
V. Mean Daily Temperature as recorded at Cambridge during the Harvesting Period	-	-	24
VI. Results obtained by Organised Delivery	-	-	29
VII. Frequency Distribution of Net Costs and Gross Cash Receipts	-	-	33
VIII. Influence of Yield on Cost per Ton and Profit per Acre	-	-	41

---

---

**List of Tables**

1. Comparison of Major Characteristics of Costed Farms with Normal Conditions	-	-	1
2. County Distribution of Costed Acreage	-	-	2
3. Manurial Composition of Sugar Beet Tops and Farm-yard Manure	-	-	8
4. Manurial Composition of Fen and Other Soil Tops	-	-	9
5. Feeding Value of Sugar Beet Tops and Mangolds	-	-	9
6. Frequency Distribution of Dates of Drilling	-	-	13
7. Air Temperatures recorded at Cambridge during the Growing and Harvesting Period	-	-	23

	<i>Page</i>
8. Rainfall and Sunshine recorded at Cambridge during the Growing and Harvesting Period - - - - -	24
9. Cost per Unwashed Ton of Haulage and Transport by Road, Rail and Water - - - - -	26
10. Cost per Unwashed Ton-mile of Haulage and Transport by Road, Rail and Water - - - - -	26
11. Average Costs per Acre and per Ton - - - - -	31
12. Average Receipts and Profits per Acre and per Ton - - - - -	32
13. Average Yields, Costs and Returns per Acre arranged in Soil Groups	35
14. Average Costs and Returns per Ton arranged in Soil Groups - - -	36
15. Influence of Size of Field on Labour Costs - - - - -	36
16. Relationship of Labour Costs to Profit - - - - -	38
17. Relationship of Labour Costs to Profit - - - - -	38
18. Farm Cash Costs in Different Soil Groups - - - - -	39
19. Transport Costs in Different Soil Groups - - - - -	39
20. Comparison of Total Cash Costs and Net Costs per Acre and per Ton in Different Soil Groups - - - - -	40
21. Comparison of Cash and Net Profits and Losses in Different Soil Groups	42
22. Relationship between Size of Field and Cost of Production per Acre	43
23. Gross Cash Receipts per Acre on Different Sized Fields - - - - -	44
24. Influence of Farm-yard Manure - - - - -	45
25. Influence of Subsoiling - - - - -	45
26. Influence of Farm-yard Manure and Subsoiling - - - - -	46
27. Influence of Preceding Crop - - - - -	47
28. Influence of Rate of Seeding - - - - -	48
29. Influence of Date of Drilling - - - - -	48
30. Influence of Distance between Drills - - - - -	49
31. Comparison of Ridge and Flat Work - - - - -	50
32. Partial Failures - - - - -	54
33. Partial Failures - - - - -	55
34. Distribution of Costs of Production per cwt. of Granulated White Sugar	55

---

### List of Appendices

A. General Economic Data - - - - -	58
B. Field Data - - - - -	60
C. Manuring Data - - - - -	63
D. Yield Data - - - - -	66
E. Field Costs and Returns per Acre - - - - -	69
F. Field Costs and Returns per Washed Ton - - - - -	83
G. Farmers' Comments on Growth Conditions - - - - -	89
H. Farmers' Comments on the Value of Tops - - - - -	92

## Foreword

“Sugar, Mr. Speaker . . . . . who now dares to laugh at Sugar?”  
—WILLIAM PITT.

“**A**T a dinner recently given by the town of Amiens to the King of France, was placed on the table opposite to His Majesty an immense column, composed of sugar, manufactured from beet-root at Franvillers, near Amiens. The column consisted of four different qualities of refined sugar, and crystals of raw sugar formed the pedestal.” These words, extracted from *The Times* of October 22nd, 1827, afford yet another example of the repetition of agricultural history. Our blockade of France had caused the introduction therein, and rapid spread, of this new crop, fostered and controlled, as it was, by the State. A hundred years later, consequent upon another European conflict, we find our own country subsidising the establishment of sugar beet. In 1927 more than four millions of the subjects of King George the Fifth were provided with home-produced sugar—if no royal banquet has thus been served, doubtless His Majesty has also partaken of this commodity. In the intervening century the crop had spread throughout Europe; protected by subsidies and encouraged by bounties, it had been the subject of international conventions and also of international disagreements; incidentally, France lost her Sovereign but retained her sugar beet. Finally, produced in large quantities in every country except our own, it developed into a serious competitor to cane-sugar. In these islands, however, it seemed as if the attempts made by private persons to popularise it were destined to meet with the same lack of support as was experienced by the eighteenth century pioneers when advocating other innovations in the way of root crops, e.g. turnips. It was only when the Government itself assumed responsibility, by fostering both the growing and the manufacturing of the product, that the successful issue was achieved. Yet the demand for sugar was almost unlimited, and no war-time restrictions irritated the population more than those which drastically curtailed its consumption of sugar and simultaneously demonstrated its dependence for supplies on enemy countries. We consume little short of two million tons of sugar per annum, equivalent to upwards of one hundred pounds per head; all ages and all classes of the community look to it for their sustenance and their delectation. This is the product, for the supplies of which, only a few years ago, we were entirely dependent upon overseas resources; already we produce more than one-tenth of our needs. In these circumstances no action of an economic character undertaken by the State in those difficult post-war years was, it will be agreed, more justified than that

involved by the passage of the Sugar Beet (subsidy) Act. Unfortunately, from the very nature of the case, the financial aspects of the problem had to be settled in the virtual absence of *data* relating to the cost of producing the crop. For, at the time that the Act in question became law, the most recent authoritative publication upon the subject was the "Report on Experiments in the Cultivation of Sugar Beet in 1911" (Cd. 6162, 1912). It need not be pointed out that an investigation into what were in effect purely experimental samples of beet for one particular season in a pre-war year could hardly afford an approximate indication of the economy of the commercial production of the crop under post-war conditions. Quite recently, however, the Ministry of Agriculture's "Research Monograph," No. 3, prepared by Messrs. Bridges and Dixey, of Oxford, and a later work by the same writers, entitled "Sugar Beet," covering respectively the seasons 1924-5 and 1925-6, have made available a considerable body of information relating to both the cultural and financial aspects of beet production in England. In no district of Great Britain, however, is this crop of more importance to the farmer than in the arable districts of the Eastern Counties, where more than two-thirds of it is produced, and where are naturally situated the majority of the factories. No excuse, therefore, is needed for the publication of an inquiry confined, in geographical range, to what is officially designated "The Eastern Counties Province," for nowhere else are the natural conditions so favourable, or the potentialities of the crop so great, and in no other area does the farming community stand in need of such assistance as can be derived from the "beet policy." At first the main difficulties associated with the introduction of sugar beet into East Anglia were cultivational in character, but here experience has been rapidly acquired, and now the most important questions to be solved are those relating to economics and finance, e.g. labour, transport and so on. Here, then, is apparent the value of this *Report*, for it covers, for the first time on a really large scale, the complete history of a season's crop (from the preliminary preparation of the soil to the arrival of the roots at the factory) grown in the heart of the most prolific area; on statistical grounds it represents, also, the largest "sample" that has ever been made. Messrs. Carslaw and Burgess, together with Mr. G. Ll. Rogers, are, in their respective spheres, to be heartily congratulated upon carrying through to a successful issue so important and difficult an undertaking.

Reference should perhaps be made to what appear to be some of the more important features emerging. Thus, most readers will turn at once to Table 12, which gives the average cash and net over-all profits, and will then doubtless attempt to calculate their own possible returns in future years as the subsidy declines. Here the contents of the last pages will assist them, and in the same section they will find much interesting material relating to the respective positions occupied by the grower, the manufacturer and the consumer of beet sugar. Certain portions of the work deal with entirely new aspects of the problem, viz. the relationship between the size of fields and



cost of production per acre, the financial results attaching to dunging and sub-soiling and the large scale investigation into the effects of varying dates and rates of drilling seed. The season of 1927 was, however, not normal, and it is, therefore, doubly fortunate that the inquiry is being repeated during the current year on the same lines and on the same scale; taken together, the two years, which are bound to be variable in character, should provide results of very great value alike to land-owners, farmers, manufacturers and economists and the other numerous classes of persons interested financially or otherwise in the future of the new crop. To the numerous individuals, especially the growers, who have made possible the appearance of this publication, may I tender, on behalf of the Department of Agriculture, most sincere and grateful thanks? To them it must often seem a thankless task to furnish information upon seemingly unimportant matters for month after month, and then to be asked for more, but it is to be hoped that they will discover in the contents of these pages some slight return for their kind co-operation.

J. A. VENN.

## Some Observations on the Position of Beet Growing in the Eastern Counties

It is only when an endeavour is made to generalise on the practical aspects of sugar beet growing and to summarise the economic factors of importance in its production that a full realisation of the difficulties and dangers of such a proceeding becomes apparent. For, even within the limits of the present investigation, examples may be found which appear to give the lie direct to any form of recommendation. From the practical man's point of view the main considerations in discussing the economics of sugar beet production appear to be type of soil, cost of transport, supply of labour, capital requirements, and general policy of the farm. So far as the actual growing of the crop is concerned the first of these may seem to be of minor importance, for sugar beet will accommodate itself reasonably well to most soils found in the Eastern Counties Province. On the heavier types, however, there may be a very real difficulty in wet seasons and, in particular, at harvest time, to mention nothing of the possibility of damage to the soil texture. The question of transport is, perhaps, one of the most important considerations, for in the general list of costs this item bulks large, and in many cases makes all the difference between a cash profit or loss.

The importance of the question of labour depends to a great extent on the amount of beet grown. At the best it calls for much skill in organisation during the important periods of haytime, autumn sowings and autumn threshings; at the worst it may result in grave neglect of the farm routine. Generally speaking, there appears to have been no very great demand for, or difficulty in obtaining, casual labour even with the 1927 acreage, although it is feared that in too many cases outside labour has been casual in more senses than one. The matter of labour presents so many aspects that controversial topics can hardly be avoided. In the first place hand labour on the crop calls for considerable skill and even more care. The poor "plant" rendered worse and the good "plant" rendered indifferent as a result of careless hoeing and singling is probably the most common cause of disappointment and financial loss to the grower. Whether piece-work is to be preferred to day-work depends a good deal upon the amount of supervision possible, and also on the type of workman employed. The lesser cost per acre achieved by piece-work has in many cases, on account of indifferent hoeings, proved more costly in the long run than day-work. It is not necessary to discuss wage rates except, perhaps, to comment on the wide variation observed in piece-work rates between different districts. Generally the labourers appear satisfied

with the amount they are able to earn on the beet crop, and in quite a number of districts it has provided the means for women and children to supplement family incomes.

Sugar beet growing calls for considerable capital outlay, especially in labour and manures, and the high costs incurred might be a serious handicap to its production were it not for the system followed by the factories of making cash advances where required. This convenience has undoubtedly weighed a good deal with the farmer when deliberating on his policy. It is to be hoped that the practice will be continued in the future, and extended where possible to other farm products. The small capital outlay on implements incurred by some growers is a very minor matter. It would seem that those special beet harrows and lifters now on the market are, on the whole, satisfactory, but that further developments in spacing drills, hoes and harvesting machines would be very welcome provided that their purchase did not entail much expense.

In this summary it is impossible to enlarge upon the position of sugar beet in the policy of other than the general corn and stock farmer. On those farms where a "cash" fallow crop (such as potatoes or brussel sprouts) is normally taken, beet will become an ever more doubtful proposition as the price declines. On the general farm, however, sugar beet will in future absorb part, if not all, of the fallow shift and thus do much to lighten cleaning costs. When the subsidy has expired it appears that the decisive question in the grower's mind may be, not how much loss will be incurred, but by how much the loss on beet will be less than that on any other form of fallow crop. In this connection it is obvious that both the direct and indirect returns from beet growing must be considered as well as its effect on the general policy of the farm. Beet tops provide excellent sheep-keep, of which fact evidence is given in Appendix H, while the quantity available appears to be greater than is generally believed. The introduction of beet into the rotation does not seem to have affected in any way the stock-carrying capacity of holdings, and in this connection it may be mentioned that the preferential rates available to the grower for the purchase of pulp enable him to obtain an excellent foodstuff at a reasonable price. It is agreed everywhere that corn crops immediately following beet invariably do well, but whether this is due to the manurial or cultivation values is uncertain. No doubt both exert an influence, and certainly on the lighter barley lands the deep cultivations render available a greater moisture area to the advantage of the following crop.

It is certain that farming conditions do not always lend themselves to an alternative cash fallow crop to sugar beet and that many farmers will therefore retain the advantage of at least some immediate cash return from their necessary fallow operations. On the presumption that beet will replace some of the "root" break it is legitimate to assume that much greater attention will in future be paid to the economic utilisation of pulp and tops than has been done in the past. There is no reason to believe that any shortage of stock

food will result from such a policy, although some slight modifications in rationing methods may be necessary. As stated above, even with the existing brief experience, and under probably abnormal conditions, no reduction in the stock-carrying capacity of farms has been evidenced.

Up to 1927 the constant occurrence of beet following barley would seem to indicate that in many cases the crop has been substituted for seeds, but it must be remembered that the high contract price, coupled with the general economic conditions of the period, tempted many growers to concentrate on beet to the exclusion of all other considerations. It is possible that ill effects from such a policy will be felt for some years to come. But sugar beet (grown rationally) tends, without doubt, to a general uplift both of farming methods and soil fertility. One is forced to ask, however, to what extent other crops would show to equal advantage if they also were cared for and nourished as this pet child of the rotation?

As with other crops, quality of seed is of the greatest importance in sugar beet production. Up to the present this country has been almost entirely dependent for its supply on Continental sources, but the production of beet seed is now becoming quite an extensive venture in England. Factories have been criticised for failures alleged to be caused by seed of inferior quality supplied by them. It is impossible to believe, however, that the factories have not done all in their power to ensure that only seed of the highest grade available should be issued to growers, for the interests of the factory demand the highest possible sugar content. It is pleasing to record that last season proved the good qualities of English-grown seed, and in this connection it may not be out of place to suggest that factories should be more specific in their description of varieties of seed made available to the grower. It is usual for English-grown seed to be defined only by the term "English-grown," whereas, if the name of the grower, or the variety, was specified, this would at least definitely mark down the source of origin.

Comparisons of English and Continental yields and methods of production have been made in recent years *ad nauseam*. It appears that so far as soil and climate are concerned Continental growers are in no way more favourably placed than English growers, and that the factors of seed, manuring and inter-cultivations form the main causes of the difference in yields. Inspection over a wide area of Eastern England during the past season certainly emphasised the necessity for care in cultivations, particularly in the singling and hoeing operations. With regard to manuring, it must be remembered that information on this matter is still decidedly vague in England. Instance after instance might be quoted where entirely divergent advice has been printed, not only in the same agricultural paper, but also on the same page. Many growers do not discriminate between one locality and another, and accept such advice as being universally applicable. The manuring suited to all the combinations of soil and weather factors experienced even in the Eastern Counties has not yet been discovered.

## Foreword to Appendices

THESE Appendices have been printed in some detail, as it is considered probable that investigators may wish to carry out analyses and comparisons which, for various reasons, are not incorporated in the text of this publication. Throughout the Appendices a dash (—) indicates that there are no *data*, and a question mark (?) that the *data* have not been recorded. All averages in the Appendices, as in the text, are arithmetic unless otherwise stated.

# APPENDIX A.

## GENERAL ECONOMIC DATA.

Farm Number.	General Description of Soil.	Total Acreage.	% Arable.	Rent and Rates per Acre.	Density per 100 Acres.*		Number of Tractors.†	Total Beet Grown expressed as a % of Total Arable.			1927 Beet Crop actually Costed.		Factories Supplied.	Approximate Road Distance (Miles) to Factory.	
					Labour.	Horses.		1926	1926	1927	Number of Fields.	Acres.			
101	Light over chalk	740	93	23/9	3-4	2-7	1	3-6	8-7	10-9	1	60	Bury, Ely and Wisington.	14, 14 and 30.	
102	Sandy loam	647	86	25/9	3-5	2-8	1	13-8	16-1	18-7	6	100	Bury	2.	
104	Light loam	465	86	23/4	3-9	2-4	1	7-5	16-0	32-5	3	56 1/2	Bury	4 1/2.	
105	Light mixed	236	58	29/1	2-5	3-4	—	—	3-7	4-4	1	6	Bury	35.	
106	Light over chalk	310	92	27/-	2-9	2-6	—	—	2-1	7-0	10-6	1	12	Bury and Felstead	40 and 30.
107	Very light	602	88	12/9 1/2	4-0	3-3	—	—	5-3	8-7	11-7	3	62	Bury and Ely	4 and 30.
108	Strong loam	1015	75	33/3 1/2	4-5	3-4	—	—	2-1	5-2	7-8	2	40	Bury	11.
109	Light chalk	450	93	23/3 1/2	2-7	3-1	3	1-2	1-2	3-6	1	15	—	—	—
110	Gravel loam	280	54	24/6 1/2	3-6	2-5	—	—	5-3	11-3	18-0	4	27	Bury and Ipswich	23 and 23.
111	Light to medium	1400	57	23/4 1/2	4-3	3-2	1	15-0	27-5	31-3	2	80	Bury and Cantley	40 and 25.	
112	Medium loam	1000	80	35/-	4-0	3-0	1	—	8-1	8-1	1	11	Cantley and Spalding.	45 and 50.	
113	Mixed on sand	760	62	32/9	4-5	2-4	—	—	2-1	2-1	2-1	1	10	Cantley and Lynn	40 and 22.
113A	Clay loam	440	91	33/5	3-4	3-0	—	—	6-0	4-5	7-3	1	29	Cantley	40.
114	Light sand	1000	95	32/5	4-4	3-0	—	—	4-5	4-8	4-5	1	27	Cantley	40.
115	Heavy	700	80	23/9 1/2	5-3	2-9	1	0-7	1-5	1-5	1	8	Bury	11.	
116	Clay	151	64	20/11 1/2	3-0	2-7	—	—	7-8	10-0	12-5	1	12	Bury and Felstead	30 and 12.
117	Sandy loam	70	64	33/3 1/2	4-3	4-3	—	—	6-7	13-3	21-1	2	3 1/2	Bardney and Kelham.	9 and 35.
118	Mixed	441	57	28/-	2-0	2-3	1	2-8	2-8	4-0	1	10	Bardney	6.	
119	Sandy loam	138	61	33/10	3-6	2-9	—	—	3-6	3-6	3-6	1	24	Kelham	35.
120	Sand and warp	242	66	45/-	3-5	4-1	1	3-8	3-8	3-8	2	6	Kelham	40.	
121	Sand to strong loam	490	69	38/4 1/2	2-9	2-9	—	—	1-8	4-4	1	10	Colwick and Selby	45 and 45.	
122	Clay and sand	197	63	30/7	2-5	2-5	1	12-9	3-2	14-6	1	18	Kelham and Bardney.	30 and 16.	
123	Fen	600	88	34/10	3-3	3-3	3	3-4	3-4	8-8	3	46	Kelham and Bardney.	22 and 3.	
124	Medium loam	350	80	30/5 1/2	2-9	2-3	—	—	3-2	3-2	5-0	1	14	Kelham and Bardney.	25 and 6.
125	Medium on sand	240	71	35/-	2-9	2-9	—	—	4-7	9-1	3	15 1/2	Selby	60.	
126	Mixed loam	144	79	37/10	4-2	4-9	—	—	8-8	10-5	14-0	2	16	Cantley	25.
127	Heavy loam	600	58	21/8	2-5	2-3	—	—	1-7	3-4	1	12	Felstead	20.	
128	Strong	282	73	23/2 1/2	3-2	2-5	1	—	17-0	6-8	1	10	Felstead	31.	
129	Light loam	112	89	21/5 1/2	4-5	3-6	1	5-0	11-0	10-0	1	10	Ely	38.	
131	Sandy loam on clay	156	98	42/9 1/2	5-1	5-1	—	—	2-6	11-7	18-3	3	28	Cantley	18.
132	Sandy loam on clay	210	88	27/-	3-1	2-5	—	—	?	5-5	1	4	Felstead	30.	
133	Chalk and gravel loam.	54	85	41/3	5-6	3-7	—	—	2-2	8-7	9-8	1	4 1/2	Ely	40.
135	Heavy clay	991	84	23/3	3-0	2-7	2	0-6	1-2	1-2	1	24	Bury	12 1/2.	
136	Strong loam	550	87	29/1 1/2	4-7	3-8	1	7-5	7-5	9-6	6	46	Cantley and Ipswich.	32 and 24.	
137	Heavy clay	507	40	19/1 1/2	4-0	2-2	1	—	5-0	5-0	1	10	Peterboro'	40.	
138	Strong loam	180	69	40/3	5-6	3-8	—	—	1-8	2-5	1	2 1/2	Peterboro'	30.	
139	Gravel loam	178	64	76/3 1/2	6-7	2-8	1	—	1-8	2-6	1	3	Peterboro'	30.	
141	Heavy	392	61	16/10 1/2	2-5	2-8	1	2-1	5-6	4-8	2	11 1/2	Bury	55.	
142	Loam on clay	380	68	34/1 1/2	5-8	2-6	1	4-6	6-9	6-9	3	18	Cantley	20.	
143	Fen	1411	96	50/11	5-7	5-0	2	11-8	11-8	12-5	1	10	Ely	6.	
144	Gravel loam	600	60	27/8	2-0	2-0	—	—	2-7	6-0	6-0	1	18	Colwick and Peterboro'.	40 and 10.
145	Loam on gravel	418	55	30/1 1/2	2-9	2-2	1	10-0	16-5	16-5	1	38	Peterboro'	15.	
146	Very mixed	990	66	28/5	4-5	2-7	2	2-3	2-3	7-7	1	13 1/2	Cantley	20.	
149	Fen	870	69	51/1	5-4	4-3	—	—	4-0	4-0	1	10	Bardney	10.	
150	Light over limestone	788	68	28/9 1/2	3-0	2-0	2	—	—	2-8	1	15	Kelham	16.	
151	Sewage farm on sand	300	83	27/5	4-0	3-3	1	6-0	9-2	12-8	1	32	Kelham and Colwick.	12 and 20.	
152	Loam and heath	205	64	35/10	2-9	2-4	1	2-3	5-3	5-3	2	7	Kelham and Bardney.	20 and 4.	
153	Very mixed	800	75	27/3	2-0	3-1	—	—	2-3	2-3	3	14	Kelham and Bardney.	20 and 3.	
154	Gravel	73	96	25/5 1/2	4-1	4-1	—	—	2-9	5-7	8-6	1	4	Bardney	4.
155	Mixed loam	73	73	34/2	4-1	4-1	—	—	3-8	7-6	9-4	1	5	Kelham	20.
156	Gravel loam	70	69	35/5	4-0	4-3	—	—	—	7-3	16-5	1	4	Bardney	7.
157	Sandy loam and clay	485	76	31/5 1/2	4-1	3-1	1	3-2	4-1	5-5	1	20	Cantley	12.	
158	Loam	312	87	31/5	5-8	2-1	2	11-0	11-0	15-5	1	64	Bury	30.	
159	Black fen	144	100	47/1	4-2	3-6	1	—	3-5	8-8	1	3	Peterboro'	4.	
159	Medium to heavy.	95	88	46/-	3-2	5-3	1	—	3-1	6-2	1	4	Peterboro'	7.	
163	Light	162	95	12/9 1/2	3-1	2-5	—	—	3-9	5-2	5-2	1	8	Cantley and Lynn	33 and 24.
164	Light on limestone.	450	71	28/5 1/2	2-0	2-2	1	—	5-6	5-3	1	17	Kelham	20.	
166	Fen	44	77	74/5	4-6	4-6	—	—	5-9	17-6	26-5	1	9	Peterboro' and Spalding.	8 and 12.
167	Limestone	1353	33	20/4	0-9	1-0	—	—	2-2	4-4	3	20	Peterboro'	6.	
168	Medium fen	198	87	72/8	5-1	4-6	1	8-8	8-8	8-8	2	15	Spalding, Peterboro' and Ely.	24, 22, and 2.	
169	Good fen	215	94	73/9	4-0	5-6	—	—	2-0	4-4	7-9	1	11	Ely	20.
170	Light fen	331	91	48/9	3-0	4-2	1	50-0	53-3	42-7	8	128	Ely	13.	
171	Fen on gravel	470	47	65/4	2-6	3-6	1	24-5	24-5	28-4	5	62 1/2	Ely	10.	
172	Fen on gravel	120	100	55/4	2-5	3-4	—	—	—	16-6	36-6	2	44	Ely	14.
173	Fen on gravel	200	76	55/4	4-3	6-0	—	—	—	28-7	28-7	2	43	Ely	14.

\* Excludes casual labour. † Excludes tractors hired.

Appendix A.

GENERAL ECONOMIC DATA—continued.

Farm Number.	General Description of Soil.	Total Acreage.	% Arable.	Rent and Rates per Acre.	Density per 100 Acres.*		Number of † Tractors.	Total Beet Grown expressed as % of Total Arable.			1927 Beet Crop actually Cooled.		Factories Supplied.	Approximate Road Distance (Miles) to Factory.
					Labour.	Horses.		1925	1926	1927	Number of Fields.	Acres.		
175	Medium loam ..	98	65	27/12	4.1	4.1	—	6.6	14.1	14.8	1	9½	Ipswich ..	21.
177	Clay loam ..	180	100	34/6½	3.8	1.7	1	—	3.9	12.2	2	9	Felstead ..	15.
178	Light loam ..	300	80	34/6	4.0	4.0	—	3.1	5.0	6.3	2	10	Canterley ..	16.
179	Boulder clay ..	20	50	15/-	7.5	hired	—	—	12.5	12.5	1	14	Ipswich ..	22.
180	Very light ..	47	100	12/9½	2.1	hired	—	—	8.5	8.5	1	4	Ipswich ..	20.
181	Light to clay loam ..	262	97	24/-	2.8	2.2	1	—	2.2	2.4	1	6	Felstead ..	17.
182	Sandy ..	74	100	14/4	3.4	2.7	—	—	100.0	100.0	4	73	Ipswich ..	10.
183	Sewage farm on sand	541	55	32/3½	3.1	2.2	1	5.1	5.1	11.5	4	34½	Canterley ..	11.
184	Light loam on chalk	750	95	23/6	4.8	5.1	—	2.8	5.6	3.4	1	24½	Bury ..	3.
185	Mixed ..	450	82	29/2	3.3	2.7	—	4.1	9.5	10.0	1	37	Bury ..	3½.
186	Light loam ..	1179	21	14/6	1.3	0.7	—	7.3	—	4.9	1	12	Bury ..	14.
187	Very light ..	714	60	9/6	2.1	1.8	—	9.3	7.9	4.2	1	18	Bury ..	15.
188	Chalk marl and heavy.	420	83	28/6	3.3	2.6	1	1.2	1.2	1.2	1	4	Ely ..	22.
189	Silt loam ..	400	90	88/6	6.2	4.0	1	2.8	6.9	8.3	1	30	Lynn and Spalding	16 and 16.
190	Skirt ..	50	76	35/7	5.0	4.0	—	—	5.3	5.3	1	2	Bury ..	20.
191	Very light ..	999	22	6/3	1.0	1.0	1	8.2	13.6	22.7	1	63	Ipswich ..	17.
192	Gravel loam ..	137	82	34/1	2.9	2.9	—	9.4	9.4	12.9	2	11	Ipswich ..	20.
193	Light to loam ..	1700	50	29/-	4.1	2.0	2	5.9	9.9	11.0	7	93½	Ipswich ..	8.
194	Light ..	230	87	23/3½	4.3	4.3	—	8.0	8.0	11.5	1	23	Ipswich ..	5½.
195	Mixed on gravel ..	578	80	30/2½	4.7	3.5	—	2.2	5.0	5.0	1	23	Ipswich ..	4.
196	Light loam ..	800	50	29/2½	3.5	1.8	1	6.8	7.5	11.3	4	37	Ipswich ..	12.
198	Skirt ..	54	70	52/5	3.7	7.4	—	7.9	15.8	18.4	2	7	Ely ..	9.
199	Mixed loam ..	30	73	35/4	?	?	—	—	31.8	—	1	7	Ipswich ..	5½.
200	Clay loam ..	168	84	35/9	5.4	4.2	1	4.2	7.0	6.5	1	9½	Ipswich ..	5.
201	Heavy ..	580	74	24/6½	2.9	2.4	1	4.7	9.3	8.6	1	14	Ipswich ..	7.
202	Light chalk ..	400	72	34/-	2.5	3.0	—	—	4.2	7.5	2	21½	Spalding ..	40.
204	Very light ..	881	50	20/4½	3.6	2.2	3	2.3	2.3	26.8	3	117	Ely ..	30.
205	Chalk loam and clay	215	81	36/-	5.1	3.7	—	9.7	12.0	12.0	2	20	Ely ..	18.
206	Fen ..	260	90	55/-	5.0	6.2	—	17.0	20.0	23.8	4	56	Ely and Peterboro'	30 and 18.
208	Mixed heavy ..	251	88	29/4	4.8	4.0	1	1.8	4.5	6.4	2	14	Bury ..	14.
209	Black fen ..	760	79	52/6	5.3	5.5	2	4.2	10.0	15.0	2	27	Ely ..	15.
210	Medium loam ..	400	?	35/-	?	?	?	?	?	?	4	63	Kelham ..	45.
211	Very mixed ..	426	61	30/4	5.4	3.3	1	1.2	3.1	4.8	1	9½	Ely ..	21.
212	Light loam ..	236	98	33/4½	3.4	2.1	2	1.3	3.0	3.0	2	7	Felstead and Bury	45 and 50.
213	Alluvial silt ..	250	98	88/6	5.6	4.0	1	2.8	4.9	3.9	1	9½	Spalding ..	8.
Totals and averages		42,993	75	33/10½	3.8	3.2	63	4.5	8.9	11.5	182	2303	—	30½.
Number of items ..		100	99	100	98	98	—	98	98	99	—	—	—	99.

\* Excludes casual labour. † Excludes tractors hired. ‡ Experimental farm.

§ Includes 750 acres heath, for which only a nominal rent is paid.

## APPENDIX B. FIELD DATA.

Farm Number.	Field Number.	Soil* Class.	Acres.	Preceding Crop.	Variety of Seed.†	Seed lb. per acre.	Mean Date of Drilling.	Ridges or Flat.	Distance (ins.) between		Succeeding Crop.
									Drills.	Plants	
101	1	L.-M.	60	Sainfoin, Wheat	Mixed ..	14-0	May 23	Flat	24	8	Barley.
102	2	L.-M.	10	Wheat	K. W. ..	16-0	May 18	Flat	24	8-9	Barley.
	3	L.-M.	29	Barley	K. W. ..	12-9	April 29	Flat	24	8-9	Barley.
	4	L.-M.	11	Barley	K. W. ..	18-2	April 23	Flat	24	8-9	Barley.
	5	L.-M.	17	Barley	K. W. ..	19-0	April 25	Flat	24	8-9	Barley.
	6	L.-M.	25	Oats ..	K. W. ..	16-4	April 10	Flat	24	8-9	Barley.
	7	L.-M.	8	Roots ..	K. W. ..	16-3	May 13	Flat	24	8-9	Barley.
104	8	L.-M.	10	Wheat	Mixed ..	10-0	May 11	Flat	24	6	Coleseed.
	9	L.-M.	10½	Oats ..	Mixed ..	9-5	April 4	Flat	24	6	Swedes and Tares.
	10	L.-M.	36	Barley	Mixed ..	10-5	April 27	Flat	24	6	Barley.
105	12	L.-M.	6	Barley	Mixed ..	15-0	May 4	Flat	21	7	Barley.
106	13	L.-M.	12	Wheat	K. W., Horning	12-0	April 23	Flat	22	9	Barley.
107	14	V.L.	26	Bare fallow	Mixed ..	20-0	April 25	Flat	19	7	Sugar beet.
	15	L.-M.	14	Bare fallow	Mixed ..	20-0	May 16	Flat	19	7	Sugar beet.
	16	V.L.	22	Rye ..	Mixed ..	20-0	June 1	Flat	19	7	Sugar beet.
108	17	M.-H.	16	Barley	K. W., Kuhn	12-0	May 7	Flat	22½	8	Wheat.
	18	M.-H.	24	Wheat	K. W. ..	12-0	May 2	Flat	22½	8	Wheat.
109	21	L.-M.	15	?	?	14-0	?	Flat	22	9	?
110	22	M.-H.	5	Wheat	Mixed ..	12-0	June 6	Ridge	24	9	Oats.
	23	L.-M.	7	Sugar beet	Mixed ..	17-1	May 18	Flat	18	9	Barley.
	24	L.-M.	7	Roots ..	Mixed ..	17-0	May 6	Flat	18	9	Barley.
	25	L.-M.	8	Barley	Mixed ..	17-0	April 20	Flat	18	9	Barley.
111	26	L.-M.	40	Oats ..	Mixed ..	16-0	May 17	Flat	20	12	Barley.
	27	L.-M.	40	Barley	Mixed ..	16-0	May 1	Flat	20	12	Barley.
112	28	M.-H.	11	Oats ..	Schreiber	20-0	May 2	Flat	19	9	Barley.
113	29	L.-M.	10	Carrots	Dippe ..	15-0	May 16	Flat	20	9	Oats.
113A	30	M.-H.	29	Barley	Dippe ..	15-0	May 1	Flat	20	9	Barley.
114	31	L.-M.	27	Peas ..	Dippe ..	16-0	April 26	Flat	20	8	Carrots.
115	32	M.-H.	8	Barley	K. W. ..	16-0	June 21	Flat	26	9	Barley.
116	33	M.-H.	12	Sugar beet	K. W., Schreiber	16-0	May 31	Flat	21	8	Barley.
117	34	L.-M.	3½	Sugar beet	Kuhn ..	16-0	April 30	Flat	21	8	Oats.
	35	L.-M.	6	Wheat and potatoes.	Kuhn ..	16-0	May 18	Flat	21	8	Sugar beet.
118	36	L.-M.	10	Wheat	Kuhn ..	15-0	May 18	Flat	20	8-9	Barley.
119	37	L.-M.	2½	Oats ..	Dippe ..	14-0	May 12	Ridge	22	7	Barley.
120	38	F.	2½	Potatoes	K. W. ..	14-2	May 3	Ridge	21	8-9	Oats.
	39	V.L.	3½	Sugar beet	K. W. ..	12-9	May 13	Ridge	21	8-9	Potatoes.
121	40	L.-M.	10	Barley	Mixed ..	12-0	May 19	Ridge	18	7	Carrots.
122	41	M.-H.	18	Wheat	Schreiber	15-0	?	Flat	20	7	Barley.
123	42	F.	26	Potatoes	Mixed ..	18-0	May 12	Flat	21	8-9	Wheat.
	43	F.	10	Barley	K. W. ..	18-0	May 24	Flat	21	8-9	Oats.
	44	F.	10	Potatoes	K. W. "B."	18-0	April 27	Flat	21	8-9	Wheat.
124	46	L.-M.	14	Barley	Strube, Kuhn	14-0	May 23	Flat	18	8-9	Barley.
125	46	L.-M.	3½	?	K. W. "B."	14-0	May 9	Ridge	18	7	?
	47	L.-M.	4	?	K. W. "B."	15-0	May 4	Ridge	18	7	?
	48	L.-M.	8	?	K. W. "B."	14-0	June 3	Ridge	18	7	?
126	49	L.-M.	7	Barley	Kuhn ..	9-0	May 4	Ridge	21	9	Barley.
	50	L.-M.	9	Barley	Kuhn ..	18-0	April 28	Flat	18	9	Barley.
127	51	M.-H.	12	Wheat	Kuhn ..	16-7	May 17	Flat	22	9	?
128	52	M.-H.	10	Wheat	Schreiber	16-0	?	Flat	22	9	Oats.
129	53	L.-M.	10	Sugar beet	K. W. ..	11-2	May 2	Flat	22	10	Sugar Beet.
131	55	L.-M.	6	Oats ..	Dippe, Schreiber	18-0	May 27	Flat	21	9	Barley.
	56	L.-M.	11	Barley	Dippe, Schreiber	21-3	May 14	Flat	21	9	Barley.
	57	L.-M.	11	Wheat	Dippe, Schreiber	18-0	April 28	Flat	21	9	Barley.
132	58	L.-M.	4	?	?	14-0	June 7	Flat	?	?	?
133	59	L.-M.	4½	Sugar beet	K. W. "B."	14-9	May 5	Flat	22	9	Brussels.
135	60	M.-H.	2½	?	?	27-0	?	Flat	22	8-10	?
136	61	M.-H.	2½	Lucerne	Kuhn ..	14-0	May 21	Flat	18	10	Sugar beet.
	62	M.-H.	7	Wheat	Kuhn ..	16-0	May 20	Flat	18	10	Barley.
	63	M.-H.	9½	Rye grass and Barley.	Kuhn ..	13-7	May 17	Flat	18	10	Barley.
64	M.-H.	4	Cabbage	Kuhn ..	18-8	May 21	Flat	18	10	Barley.	
65	M.-H.	14	Barley	Kuhn ..	16-0	May 18	Flat	18	10	Barley.	
66	M.-H.	9	Peas ..	Kuhn ..	16-0	May 20	Flat	18	10	Barley.	
137	87	M.-H.	10	Olover	K. W. "B."	16-0	April 27	Flat	24	9	Sugar beet.
138	68	L.-M.	2	Swedes	Schreiber	16-0	April 27	Flat	19½	9	Roots.
139	69	L.-M.	3	Potatoes and Brussels	Horning	16-0	April 22	Flat	19-21	9	Brussels and Potatoes.
141	70	M.-H.	4½	Oats ..	K. W. ..	13-6	June 3	Flat	19½	12	Barley.
	71	L.-M.	7	Barley	K. W. ..	12-1	April 21	Flat	19½	12	Barley.
142	72	M.-H.	6	Wheat	Schreiber	15-0	May 9	Flat	19	9	Sugar beet.
	73	M.-H.	5	Barley	Schreiber	16-0	April 21	Flat	19	9	Wheat.
	74	L.-M.	5	Tares ..	Schreiber	16-0	May 2	Flat	19	9	Peas.
143	76	F.	10	Sugar beet	Kuhn ..	10-0	?	Flat	19½	8-10	Wheat.
144	76	L.-M.	18	Barley	Mixed ..	12-0	April 29	Flat	18	9	Barley.
145	77	L.-M.	38	Barley	K. W. "B."	13-6	May 12	Flat	?	9	Barley.
146	78	L.-M.	15½	Linseed	Dippe ..	12-0	April 25	Flat	20	10	Barley.
149	82	F.	10	Potatoes	?	8-0	?	Ridge	24	8	Potatoes.
150	83	L.-M.	15	Barley	Dippe, Kuhn	11-3	May 7	Flat	19	8	Barley.
151	84	S.	32	Barley, Wheat and Oats.	K. W. "B."	12-0	?	Ridge	24	7	Wheat.
152	85	L.-M.	8	Swedes	K. W. "B."	17-7	May 13	Flat	19	11	?
	86	L.-M.	4	Potatoes	K. W. "B."	16-0	May 22	Flat	19	11	?

\*V.L. = Very light. L.-M. = Light to medium. M.-H. = Medium to heavy. F. = Fen, Silt or Warp. S. = Sowage.  
 † "K.W." indicates *Klein Wansleben*. "Mixed" indicates that more than two varieties were drilled.



Appendix B.

FIELD DATA—continued.

Farm Number.	Field Number.	Soil <sup>o</sup> Class.	Acres.	Preceding Crop.	Variety of Seed.†	Seed lb. per acre.	Mean Date of Drilling.	Ridges or Flat.	Distance (ins.) between		Succeeding Crop.
									Drills.	Plants	
153	87	L.-M.	8	Oats ..	K.W. "E."	12-0	May 6	Ridge	22	9	Barley.
	88	M.-H.	3	Sugar beet	K.W. "E."	12-0	May 12	Ridge	22	9	Sugar beet.
	89	F.	3	Oats ..	K.W. "E."	12-0	April 26	Ridge	22	9	Oats.
154	90	L.-M.	4	Barley ..	K.W. "E."	12-0	May 7	Ridge	22	8	Barley.
	91	L.-M.	4	Barley ..	K.W. "E."	12-0	May 9	Ridge	22	8	Wheat.
156	92	L.-M.	4	Wheat ..	Kuhn ..	15-0	May 26	Ridge	27	7	Barley.
157	93	M.-H.	20	Barley ..	Dippe ..	14-0	May 2	Flat	18	10	Barley.
158	94	M.-H.	30	Half Sugar beet, half Wheat.	K.W. ..	12-0	May 7	Ridge	24	12	Barley and Sugar beet.
160	95	F.	5½	Wheat ..	K.W. "Z."	13-6	May 13	Flat	20	9	Barley.
162	96	M.-H.	4	Barley ..	Marsters.	10-0	?	Flat	22	9	Oats.
	97	L.-M.	8	Oats ..	Schreiber ..	15-0	May 12	Flat	?	?	Barley.
163	98	L.-M.	17	Wheat ..	Dippe ..	15-0	May 10	Flat	20	9	Barley.
164	99	F.	9	Oats and Wheat	Mixed ..	15-0	May 3	Flat	21	9	Potatoes and Wheat.
166	99	F.	9	Oats and Wheat	Mixed ..	15-0	May 3	Flat	21	9	Peas.
167	100	L.-M.	6	Barley ..	K.W. "E."	14-0	May 20	Flat	20	9	Barley.
167	101	L.-M.	7	Wheat ..	K.W. "E."	12-0	April 23	Flat	20	9	Barley.
	102	L.-M.	7	Wheat ..	K.W. "E."	14-0	April 24	Flat	20	9	Barley.
168	104	F.	5½	Wheat ..	K.W. "E." and "Z."	9-0	May 1	Flat	18	9	Potatoes.
	105	F.	9½	Seed mustard	K.W. "E." and "Z."	9-0	May 4	Flat	18	9	Potatoes.
169	106	F.	11	Wheat ..	Mixed ..	15-0	May 13	Flat	19	8-9	Potatoes.
	107	F.	18½	Sugar beet	Kuhn, Marsters	14-0	May 5	Flat	21	8	Potatoes.
170	109	F.	11	Rye ..	Kuhn, Marsters	14-0	April 27	Flat	21	8	Wheat.
	110	F.	12	Carrots	Kuhn, Marsters	14-0	May 3	Flat	21	8	Sugar Beet.
171	111	F.	10½	Sugar beet	Kuhn, Marsters	14-0	April 20	Flat	21	8	Rye.
	112	F.	12½	Sugar beet	Kuhn, Marsters	14-0	April 23	Flat	21	8	Sugar Beet.
171	113	F.	10½	Sugar beet	Kuhn, Marsters	14-0	April 25	Flat	21	8	Wheat.
	114	F.	35½	Sugar beet, Potatoes.	Kuhn, Marsters	14-0	May 17	Flat	21	8	Potatoes and Sugar Beet.
171	115	F.	17½	Sugar beet	Kuhn, Marsters	14-0	April 30	Flat	21	8	Potatoes.
	116	F.	21	Wheat	Marsters	15-0	?	Flat	19-21	8	Wheat.
171	117	F.	11	Rye ..	K.W. ..	15-0	?	Flat	19-21	8	Wheat.
	118	F.	12	Rye ..	Kuhn ..	15-0	?	Flat	19-21	8	Wheat.
172	119	F.	11	Mangolds, Oats	K.W. ..	15-0	?	Flat	19-21	8	Wheat.
	120	F.	7	Wheat ..	K.W. ..	15-0	?	Flat	19-21	8	Wheat.
172	121	F.	28	Wheat ..	Marsters	15-0	?	Flat	21	9	Wheat.
	122	F.	16	Wheat ..	K.W. ..	15-0	?	Flat	21	9	Wheat.
172	123	F.	23	Rye ..	K.W. ..	15-0	?	Flat	21	9	Wheat.
	124	F.	20	Wheat ..	K.W. ..	15-0	?	Flat	21	9	Wheat.
176	125	L.-M.	9½	Oats and Barley	Kuhn ..	15-5	?	Flat	19	10	Spring oats and Barley
	126	M.-H.	6	Wheat ..	Strube B.	18-0	May 28	Flat	21	10	Wheat.
177	127	M.-H.	3	Potatoes	Strube B.	18-0	May 17	Flat	21	10	Barley.
	128	L.-M.	8	Oats ..	Schreiber	18-0	May 14	Flat	18	9	Barley.
179	130	L.-M.	2	Clover ..	Schreiber	18-0	May 7	Flat	18	9	Oats.
	131	M.-H.	1½	Sugar beet	Dippe ..	12-0	May 4	Flat	18-24	?	Barley.
180	132	V.L.	4	Sugar beet	Kuhn ..	15-0	April 28	Flat	18	?	Oats.
	133	L.-M.	6	?	Kuhn ..	15-0	?	Flat	21	9	?
182	134	V.L.	12	Sugar beet	K.W. ..	15-0	May 31	Flat	20	9	?
	135	V.L.	19	Sugar beet	K.W. ..	15-0	April 25	Flat	20	9	Land given up.
182	136	V.L.	16	Sugar beet	K.W. ..	15-0	May 17	Flat	20	9	?
	137	V.L.	28	Sugar beet	K.W. ..	15-0	May 5	Flat	20	9	?
183	139	S.	10½	Sewage treatment	Delitzscher	15-0	May 1	Flat	18	8-9	Sugar beet.
	140	S.	9	Wheat ..	Delitzscher	15-0	April 23	Flat	18	8-9	Oats.
184	141	S.	8	Sugar beet	Delitzscher	15-0	May 12	Flat	18	8-9	Oats.
	142	S.	7	Barley ..	Delitzscher	15-0	May 18	Flat	18	8-9	Sugar beet.
184	143	L.-M.	27	Wheat ..	K.W. ..	13-1	May 5	Flat	18 & 24	9	Barley.
	144	L.-M.	37	Sugar beet, Sainfoin.	K.W. ..	10-0	April 19	Flat	21	9	Barley.
186	146	L.-M.	12	Oats ..	K.W. ..	11-7	May 5	Flat	20	9-10	Sugar beet.
	147	V.L.	18	Oats ..	K.W. ..	13-6	May 20	Flat	20	9-10	Sugar beet.
188	148	M.-H.	4	?	?	14-0	May 16	Flat	20	9	?
	149	F.	30	Oats and Wheat	Kuhn, Marsters	16-7	May 8	Flat	19	7	Potatoes.
189	150	M.-H.	2	Oats ..	Kuhn ..	11-5	April 29	Flat	21	8	Sugar beet.
	151	V.L.	6½	Sugar beet	Kuhn ..	10-0	May 17	Flat	18	10	Barley.
192	152	L.-M.	6½	Oats ..	Kuhn ..	20-0	May 26	Flat	18-20	9	Barley.
	153	M.-H.	4½	Barley ..	Kuhn ..	20-0	May 10	Flat	18-20	9	Barley.
193	154	L.-M.	26	Barley ..	Kuhn ..	11-0	May 12	Flat	16	9	Barley.
	155	L.-M.	16	Sugar beet	Kuhn ..	11-0	June 5	Flat	16	9	Roots.
193	156	L.-M.	10½	Barley ..	Kuhn ..	13-3	May 19	Flat	16	9	Barley.
	158	L.-M.	15	Oats ..	Kuhn ..	12-1	May 8	Flat	16	9	Sugar beet.
193	159	L.-M.	11½	Sugar beet	Kuhn ..	12-7	May 26	Flat	16	9	Oats.
	160	L.-M.	6	Barley ..	Kuhn ..	11-0	May 1	Flat	16	9	Barley.
194	161	L.-M.	10	Oats ..	Kuhn ..	11-2	May 14	Flat	16	9	Barley.
	162	L.-M.	23	Barley, Potatoes and Kale.	Marsters	13-6	April 21	Flat	16	8-10	Wheat.
195	163	M.-H.	23	Wheat ..	K.W. ..	15-2	May 12	Flat	19	10	Barley.
	164	L.-M.	6	Oats ..	Kuhn ..	15-0	May 13	Flat	16	8	Barley.
196	165	L.-M.	10	Oats ..	Kuhn ..	15-0	May 9	Flat	16	8	Barley.
	167	L.-M.	7	Linseed	Hilleskog, Kuhn ..	14-0	April 24	Flat	16	8	Sugar beet.
198	168	L.-M.	14	Wheat ..	Kuhn ..	15-7	May 1	Flat	16	8	Barley.
	169	L.-M.	8	Wheat ..	K.W. "E."	14-0	May 4	Flat	19	8	Barley.

\*V.L. = Very light. L.-M. = Light to medium. M.-H. = Medium to heavy. F. = Fen, Silt or Warp. S. = Sewage.

† "K.W." indicates *Klein Wandschen*. "Mixed" indicates that more than two varieties were drilled.

‡ Of this 8½ acres failed and were ploughed up in June.

## Appendix B.

## FIELD DATA—continued.

Farm Number.	Field Number.	Soil* Class.	Acres.	Preceding Crop.	Variety of Seed.†	Seed lb. per acre.	Mean Date of Drilling.	Ridges or Flat.	Distance (ins.) between		Succeeding Crop.
									Drills.	Plants	
	171	F.	4	Rye grass, Roots.	K.W. . . .	14-0	April 21	Flat	19	8	Oats.
199	172	L.-M.	7	Fallow	K.W., Hilleshog	15-0	May 7	Flat	?	?	?
200	173	M.-H.	9½	Oats	K.W. . . .	11-8	May 7	Flat	18	10-12	Barley.
201	174	M.-H.	14	Barley	K.W. . . .	17-1	May 3	Flat	19	10	Barley.
202	175	L.-M.	12	Peas	K.W. "E."	12-0	May 3	Flat	21	8	Barley.
	176	L.-M.	9½	Barley	K.W. "E."	11-0	May 10	Flat	21	8	Barley.
204	178	V.L.	40	Oats	K.W. "E."	13-2	May 22	Flat	18	10	Barley.
	179	V.L.	28	Mustard	K.W. "E."	13-2	April 15	Flat	18	10	Spring oats.
	180	L.-M.	49	Wheat	K.W. "E."	13-2	May 9	Flat	18	10	Barley.
205	181	M.-H.	4	Oats	?	13-0	April 28	Flat	24	7	Barley.
	182	L.-M.	16	Barley	?	13-0	May 17	Flat	24	7	Barley.
206	184	F.	10	Potatoes	Mixed	16-0	May 3	Flat	18	9	Potatoes.
	185	F.	17½	Sugar beet	Mixed	16-0	May 8	Flat	18	9	Potatoes.
	186	F.	10	Sugar beet	Mixed	16-0	May 16	Flat	18	9	Wheat.
	187	F.	18½	Sugar beet	Mixed	16-0	May 22	Flat	18	9	Oats.
208	188	M.-H.	4	Tares	Kuhn	20-0	June 2	Ridge	?	?	Barley.
	189	M.-H.	10	Oats	Kuhn	9-6	May 23	Flat	?	?	Barley.
209	190	F.	19	Sugar beet	Kuhn, Marsters	14-0	April 14	Flat	20	8	Wheat.
	191	F.	8	?	Kuhn, Marsters	12-6	April 27	Flat	20	8	?
210	192	M.-H.	11	?	?	20-0	May 24	Flat	?	?	?
	193	M.-H.	8	?	?	20-0	May 9	Flat	?	?	?
	194	M.-H.	20	?	?	18-0	May 3	Flat	?	?	?
	195	M.-H.	29	?	?	20-0	May 11	Flat	?	?	?
211	196	L.-M.	9½	Wheat	K.W. . . .	14-0	May 16	Flat	19-20	8-10	Barley.
212	197	L.-M.	4	Barley	Horning	18-0	April 19	Flat	18	9	Wheat.
	198	L.-M.	3	Barley	Wohanka	18-0	May 3	Flat	18	9	Wheat.
213	199	F.	9½	Oats	K.W. . . .	20-0	April 28	Flat	18	8	Wheat.

\*V.L. = Very light. L.-M. = Light to medium. M.-H. = Medium to heavy. F. = Fen, Silt or Warp. S. = Sewage.  
 † "K.W." indicates *Klein Wanzleben*. "Mixed" indicates that more than two varieties were drilled.

## APPENDIX C. MANURING DATA.

Total manures applied direct to 1927 Sugar Beet Crop.

Field Number.	Dung Loads.	S. Ammonia Cwt.	Nit. Soda. Cwt.	Nit. Lime. Cwt.	Superph. Cwt.	S.B. Flour. Cwt.	Rock Pho. Cwt.	Basic Slag. Cwt.	Kainit. Cwt.	Muriate. Cwt.	Pot. Salts. Cwt.	Patents. Cwt.	Fish M. Cwt.	Meat Meal Cwt.	Guano. Cwt.	Soot. Cwt.	Salt. Cwt.	Sludge. Tons.	Shoddy. Cwt.	Lime. Cwt.
1				60	240				300											
2		10	10		30					10									30	
3		30	56		96					30									96	
4		11	11½		23					11										
5	120	13	34½		54					18										
6	190	28	23		74					28									50	
7		8			24					8										
8																				
9																				
10												160								
12		6		6			18			12										
13					60				40											
14		2	24						70				865							
15		167							115											
16																				
17		210										160								
18		336		16								240								
21		150	5		20				25			40	10							
22			8½		12						12									
23			10½			20					22									
24		40	8			18					16									
25		18	16	14½		26					34									
26		480	80									200								
27			80									200								
28												80	300							
29			10	15		20			30											
30			30	53		60			90											
31		270	27	40		27			81											120
32		94										24								
33			12		42½															
34		65	4½	4½								8								
35		60	2½									69½								140
36		120		10		6	1					80								
37		24	6				1			4										
38													4							
39			24	8		15			9				1							
40		120	6										60							
41		126											150							
42													260							
43													90							
44													100							300
45	140												100							
46													20							
47													24							
48				8									56							
49		88	8										14							
50		72	9										12							
51			12	19		24			35		12		24							
52				4																
53		70											60							
54		60									9									
55		120									22									
56		40	9½	13½							22									
57		56	6		10					4										
58			5	5					22											
59							5													
60		25			5								12½							
61		25	3	2½							3	3								
62			8	11							8	8						16		
63		50	10	10					30			15								
64			6	12						6										
65			17	14					28		10		28							
66			12	16							8		10							
67		48	6			17½			20				20		6					
68																				
69		12		3					5				5							
70		70	4½	4½		18										50				
71		112																		
72		72																		
73		55											10	10						
74													4	22						
75					60				50											
76			18									116								
77		302										107								
78		132							67½				67½							
79																				
80		160	80								15									
81			30																	
82			2	7½		12	1½													
83			4	8		16														
84			40	8		16			30											
85						8														
86																				
87																				
88																				
89						9			10											



Appendix C.

MANURING DATA—continued.

Total Manures applied direct to 1927 Sugar Beet Crop.

Field Number.	Dung Loads.	S. Ammonia Cwt.	Nit. Soda. Cwt.	Nit. Lime. Cwt.	Superph. Cwt.	S.B. Flour. Cwt.	Rock Pho. Cwt.	Basto Sing. Cwt.	Kainit. Cwt.	Muriate. Cwt.	Pot. Salts. Cwt.	Patsalts. Cwt.	Fish M. Cwt.	Meat Meal Cwt.	Guano. Cwt.	Scot. Cwt.	Salt. Cwt.	Sludge. Tons.	Sludgy. Cwt.	Lime. Cwt.
183	128	9	—	—	—	—	—	33	32	—	—	—	—	—	—	—	—	—	—	—
184	—	30	2½	—	—	—	—	—	—	20	—	—	—	—	—	—	—	—	—	—
185	—	—	4½	—	—	—	—	—	—	35	—	—	—	—	—	—	—	—	—	—
186	—	—	2½	—	—	—	—	—	—	30	—	—	—	—	—	—	—	—	—	—
187	—	—	4½	—	—	—	—	—	—	37	—	—	—	—	—	—	—	—	—	—
188	48	—	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
189	120	—	14½	—	—	—	—	—	20	—	—	—	—	—	—	—	—	—	—	—
190	—	—	—	—	—	45	—	—	60	—	—	—	—	—	—	—	—	—	—	—
191	—	—	—	—	—	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—
192	—	16½	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
193	—	4½	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
194	—	30	—	—	—	—	—	55	—	—	—	—	—	—	—	—	—	—	—	—
195	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
196	—	44	—	—	—	—	—	180	—	—	—	—	—	—	—	—	—	—	—	—
196	140	—	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
197	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
198	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
198	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
199	—	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## APPENDIX D. YIELD DATA.

Field Number	Yield in Tons per Acre.		% Tare.	Effective % * Sugar Content.	lb. Sugar (Su-crose) per Acre.	lb. Sugar (Su-crose) per ½ labour.	† Haul- age. Miles.	‡ Method of Trans- port.	Tops per Acre.			
	Un- washed.	Washed.							Esti- mated Tons.	Method of Disposal.	Value. £ s. d.	
1	7-015	6-085	13-26	16-4	2236	203	1½	Rail	9	Folded .. .. .	3 7 6	
2						344			11	Folded .. .. .	4 2 6	
3						373			10	Ploughed in .. .. .	2 15 0	
4						383			9	Ploughed in .. .. .	2 9 6	
5	9-932	7-667	22-81	16-8	2865	345	½	Road	11	Ploughed in .. .. .	3 0 6	
6						296			12	Ploughed in .. .. .	3 6 0	
7						538			8½	Ploughed in .. .. .	2 6 9	
8	8-066	7-023	12-93	17-0	2674	274			9	Ploughed in .. .. .	2 9 6	
9	8-303	7-036	15-99	14-6	2301	265	½	Road	9	Ploughed in .. .. .	2 9 6	
10	10-601	8-684	17-30	17-6	3424	407	½	Road	9	Ploughed in .. .. .	2 9 6	
12	9-637	7-844	18-60	16-6	2899	277	½	Rail	9	Carted off .. .. .	3 7 6	
13	11-039	9-077	17-77	16-6	3375	347	2½	Rail	12	Ploughed in .. .. .	3 6 0	
14	5-619	4-936	12-15	17-2	1902	189			4	Ploughed in .. .. .	1 2 0	
15	9-901	8-398	15-21	16-4	3085	332	½	Road	8	Ploughed in .. .. .	2 4 0	
16	5-550	4-445	19-91	15-6	1553	141			4	Ploughed in .. .. .	1 2 0	
17	8-230	7-268	11-81	17-9	2910	275			8	Part carted and part ploughed in ..	2 12 0	
18	11-227	9-822	12-52	17-5	3850	393	½	Road	11	Part carted and part ploughed in ..	3 12 6	
21	Crop failed and was ploughed up.											
22						282			10	Ploughed in .. .. .	2 15 0	
23	13-310	11-596	12-90	17-1	4442	298	1	Rail	10	Carted off .. .. .	3 15 0	
24						289			10	Ploughed in .. .. .	2 15 0	
25						274			10	Ploughed in .. .. .	2 15 0	
26	14-524	10-557	27-31	15-8	3659	404	1½	Rail	8	Part carted and part folded ..	2 12 0	
27	12-529	10-414	16-88	17-2	4012	428	½	Rail	7	Part carted and part ploughed in ..	2 6 6	
28	10-798	8-617	20-19	16-6	3185	316	1½	Rail	6	Folded .. .. .	2 5 0	
29	8-790	7-649	11-85	17-1	2930	355	2	Rail	11	Ploughed in .. .. .	3 0 6	
30	10-996	9-346	14-99	17-0	3569	371	1½	Rail	12	Folded .. .. .	4 10 0	
31	8-829	6-924	7-88	17-4	2453	252	5	Rail	9	Folded .. .. .	3 7 6	
32	4-133	3-287	21-35	14-7	1086	101	½	Road	4	Folded .. .. .	1 10 0	
33	7-026	5-692	18-98	14-2	1810	173	½	Rail	9	Part carted and part ploughed in ..	2 19 6	
34	11-675	10-590	9-29	15-1	3582	287	½	Road	14	Ploughed in .. .. .	3 17 0	
35	8-925	8-206	8-05	16-7	3070	259	½	Rail	10	Part folded and part ploughed in ..	3 5 0	
36	11-057	8-678	22-41	16-7	3209	278	1	Road	12	Ploughed in .. .. .	3 6 0	
37	10-600	8-993	14-35	16-6	3344	327	1	Rail	13	Part folded and part ploughed in ..	3 18 0	
38	10-168	8-496	16-44	16-1	3064	217	½	Rail	12	Ploughed in .. .. .	3 6 0	
39	5-296	4-845	8-53	17-0	1845	181	5	Rail	6	Ploughed in .. .. .	1 13 0	
40	7-606	6-065	19-19	16-6	2255	183	2½	Rail	8	Folded .. .. .	3 0 0	
41	5-635	4-677	17-00	16-9	1781	175	2	Rail	6	Part folded and part ploughed in ..	1 13 6	
42	10-658	9-091	14-69	14-4	2932	338	½	Road				
									Light rail-way.	12	Folded .. .. .	3 18 0
43	8-134	6-698	17-65	15-4	2311	246	½	Road	12	Folded .. .. .	3 18 0	
44	9-853	8-900	10-58	15-7	3130	284	2½	Rail	12	Folded .. .. .	3 18 0	
45	7-889	6-879	12-77	16-4	2527	254	1½	Rail	10	Folded .. .. .	3 15 0	
46						276			7	Ploughed in .. .. .	1 18 6	
47	8-095	6-722	16-96	16-6	2500	241	4½	Rail	7	Ploughed in .. .. .	1 18 6	
48						296			7	Ploughed in .. .. .	1 18 6	
49	8-170	6-854	16-10	15-8	2426	307	2	Rail	8	Ploughed in .. .. .	2 4 0	
50	8-943	7-559	15-47	17-1	2895	242	2	Rail	9	Ploughed in .. .. .	2 9 6	
51	7-693	3-983	48-23	14-4	1285	61	3	Rail	6	Ploughed in .. .. .	1 13 0	
52	5-321	3-757	29-39	15-7	1321	78	3	Road	4	Part carted and part ploughed in ..	1 6 0	
53	8-914	7-081	20-56	16-3	2585	183	½	Road	10	Ploughed in .. .. .	2 15 0	
56	9-408	7-770	17-41	16-4	2854	221	½	Rail	9	Part carted and part ploughed in ..	2 19 6	
57						233			9	Part carted and part ploughed in ..	2 19 6	
58						262			8	Part carted and part ploughed in ..	2 12 0	
59	8-000	7-128	10-90	16-3	2662	245	1	Rail	8	Part carted and part ploughed in ..	2 12 0	
60	Crop failed and was ploughed up.											
61	14-214	12-224	14-00	16-4	4490	327			9	Ploughed in .. .. .	2 9 6	
62	10-847	9-203	15-16	16-9	3463	205			8	Ploughed in .. .. .	2 4 0	
63	10-434	9-534	8-62	17-3	3695	278			8	Ploughed in .. .. .	2 4 0	
64	8-994	7-408	17-63	16-1	2672	213	6	Rail	8	Ploughed in .. .. .	2 4 0	
65	8-530	7-781	8-78	17-9	3120	247			7	Part ploughed in and part folded ..	2 6 6	
66	10-123	8-520	15-83	16-3	3111	188			9	Folded .. .. .	3 7 6	
67	11-245	7-548	32-86	16-2	2739	168	3½	Rail	10	Ploughed in .. .. .	2 15 0	
68	7-336	6-895	6-98	16-2	2564	220	3	Rail	10	Part carted, part folded, and part ploughed in ..	3 5 0	
69	13-125	12-118	7-89	17-8	4832	358	2½	Rail	12	Carted off .. .. .	4 10 0	
70	8-726	6-469	26-87	16-7	2275	162	6	Rail	8	Part folded and part carted ..	3 0 0	
71	12-407	10-619	15-10	16-9	3746	242			12	Part folded and part carted ..	4 10 0	
72						222			9	Carted off .. .. .	3 7 6	
73	10-956	8-793	19-74	17-2	3388	326	½	Rail	9	Ploughed in .. .. .	2 9 6	
74						251			9	Part carted and part ploughed in ..	2 19 6	
75	10-664	8-484	20-44	12-2	2319	193	1½	Water	12	Ploughed in .. .. .	2 14 0	
76	10-198	8-717	14-51	17-2	3358	254			9	Folded .. .. .	3 7 6	
77	10-105	8-453	16-84	17-0	3219	251			9	Ploughed in .. .. .	2 9 6	
78	7-330	6-854	8-49	16-8	2498	257			10	Folded .. .. .	3 15 0	
82	9-620	8-100	14-92	14-6	2631	248	2	Rail	6	Ploughed in .. .. .	1 7 0	

\* Weighted average of individual consignments. † From field to roadside, wharf or rail station.  
‡ From roadside, wharf or rail station to factory: where more than one destination data are given in same order as factories in Appendix A.

Appendix D.

YIELD DATA—continued.

Field Number	Yield in Tons per Acre.		% Tare.	Effective % * Sugar Content.	lb. Sugar (Su-croce) per Acre.	lb. Sugar (Su-croce) per 5 labour.	Haulage Miles.	Method of Transport.	Estimated Tons.	Tops per Acre.	
	Un-washed.	Washed.								Method of Disposal.	Value. \$ s. d.
88	10-136	8-841	17-71	15-6	2917	235	1/2	Road	6	Folded	2 5 0
84	9-818	8-433	14-10	16-1	3041	340	1/2	Rail	12	Ploughed in	3 6 0
85	9-954	8-768	11-92	17-0	3339	279	1/2	Rail	14	Carted off	5 5 0
86	10-747	8-889	17-29	16-0	3186	272	1/2	Road	14	Carted off	5 5 0
87	8-830	7-401	16-17	16-2	2686	238	1/2	Road	8	Ploughed in	2 4 0
88	5-691	4-545	20-15	17-1	1741	177	1/2	Road	10	Ploughed in	2 15 0
89	4-842	3-960	9-78	14-7	1304	175	1/2	Rail	10	Ploughed in	2 5 0
90	12-097	11-016	8-93	16-7	4121	374	1/2	Road	10	Part carted and part ploughed in	3 5 0
91	8-900	7-994	9-15	17-0	3044	245	1/2	Rail	12	Folded	4 10 0
92	7-816	7-270	6-98	15-9	2589	253	1/2	Rail	8	Ploughed in	2 4 0
93	8-929	7-613	14-75	16-7	2848	289	1/2	Rail	10	Part carted and part ploughed in	3 6 0
94	7-593	6-401	16-71	16-7	3394	246	1/2	Road	9	Part carted and part ploughed in	2 19 6
95	12-249	9-629	21-38	15-5	3343	306	1/2	Road	10	Folded	3 5 0
96	7-012	4-776	31-89	15-5	1658	171	1/2	Rail	9	Ploughed in	2 9 6
97	7-853	7-082	9-82	16-6	2653	232	1/2	Rail	8	Ploughed in	2 4 0
98	7-236	6-551	12-24	17-6	2504	239	1/2	Road	7 1/2	Ploughed in	2 1 3
99	8-247	6-935	15-91	15-3	2377	331	1/2	Road	9	Ploughed in	2 0 6
100	5-874	4-399	23-89	17-6	1734	184	1/2	Road	5	Ploughed in	1 7 6
101	12-174	9-117	26-45	16-5	3370	278	1/2	Road	8	Ploughed in	2 4 0
102	11-363	8-509	26-12	17-2	3278	328	1/2	Road	8	Folded	3 0 0
104	13-434	11-424	14-97	14-0	3583	280	1/2	Rail	11	Ploughed in	2 9 6
105	12-931	9-213	28-75	14-9	3075	249	1/2	Rail	11	Ploughed in	2 9 6
106	8-761	6-435	26-55	14-5	2090	191	1/2	Rail	9	Ploughed in	2 0 6
107						276			10	Ploughed in	2 5 0
109						249			10	Ploughed in	2 5 0
110						263			10	Ploughed in	2 5 0
111						255			10	Ploughed in	2 5 0
112	9-974	8-521	14-58	13-5	2577	257	1/2	Water	10	Ploughed in	2 5 0
113						270			10	Ploughed in	2 5 0
114						263			10	Ploughed in	2 5 0
115						256			10	Ploughed in	2 5 0
116						843			11	Folded	3 11 6
117						336			11	Carted off	3 11 6
118	11-134	9-596	13-82	16-1	3461	338	1/2	Rail	11	Ploughed in	2 9 6
119						358			11	Ploughed in	2 9 6
120						329			11	Carted off	3 11 6
121						322			11	Ploughed in	2 6 6
122	11-134	9-596	13-82	16-1	3461	291	1/2	Road	11	Ploughed in	2 9 6
123						336			11	Ploughed in	2 9 6
124	11-134	9-596	13-82	16-1	3461	273	1/2	Road	11	Ploughed in	2 9 6
125	10-842	9-926	8-45	17-0	3780	183	1/2	Rail	12	Part folded and part ploughed in	3 18 0
126	5-001	2-901	41-98	15-3	994	71	1/2	Rail	4	Ploughed in	1 2 0
127	10-021	6-406	36-07	16-7	2396	162	1/2	Rail	8	Carted off	3 0 0
129	13-063	10-681	18-24	16-0	3828	386	1/2	Rail	12	Ploughed in	3 6 0
130	8-319	7-573	8-96	15-0	2545	211	1/2	Rail	10	Ploughed in	2 15 0
131	9-642	8-531	11-52	17-4	3325	179	1/2	Rail	11	Ploughed in	3 0 6
132	7-962	7-312	8-16	17-5	2866	270	1/2	Road	9	Ploughed in	2 9 6
133	Crop failed and was ploughed up	8-095	2-353	23-97	15-7	828			3	Ploughed in	1 6 6
134		4-863	4-267	8-49	17-0	1825			3	Ploughed in	1 6 6
136	4-709	3-774	19-87	16-1	1361	167	1/2	Road	3	Ploughed in	1 6 6
137	3-885	3-426	11-82	16-7	1282	162	1/2	Road	3	Ploughed in	1 6 6
139	8-621	7-684	9-82	12-1	2083	189	1/2	Road	9	Carted off	3 7 6
140	9-976	7-452	25-30	15-1	2521	225	1/2	Water	6	Ploughed in	1 13 0
141	13-244	11-033	16-69	13-8	3411	363	1/2	Water	9	Part carted and part ploughed in	2 19 6
142	12-716	10-192	19-85	13-6	3105	292	1/2	Water	9	Carted off	3 7 6
143	10-845	8-763	19-20	16-6	3258	347	1/2	Road	12	Ploughed in	5 6 0
144	8-610	7-516	12-70	17-2	2896	395	1/2	Road	9	Folded	3 6 0
146	3-174	2-572	18-96	16-2	933	113	1/2	Road	11	Ploughed in	3 7 6
147	5-781	4-955	14-00	17-3	1920	162	1/2	Road	5	Part carted and part ploughed in	1-0 6
148	Crop failed and was ploughed up	13-920	28-75	17-0	4920	274			—	Folded	1 17 6
149	18-133	13-920	28-75	17-0	4920	274			12	Ploughed in	3 6 0
160	10-880	6-039	44-49	16-9	2288	254	1/2	Road	8	Part carted and part ploughed in	2 12 0
161	4-335	3-803	12-27	16-8	1431	264	1/2	Road	4	Ploughed in	1 2 0
162	8-333	6-202	25-67	16-4	2278	203	1/2	Road	9	Ploughed in	2 9 6
163						220			9	Part carted and part ploughed in	2 19 6
154	6-912	5-885	14-92	16-9	2228	227	1/2	Road	7	Ploughed in	1 18 6
155	3-887	3-019	22-61	15-6	1055	128	1/2	Road	7	Ploughed in	1 18 6
156	7-996	6-887	13-83	16-3	2515	208	1/2	Road	7	Ploughed in	1 18 6
158	5-427	4-974	8-33	17-2	1916	198	1/2	Road	7	Ploughed in	1 18 6
159	7-895	6-824	26-34	16-0	2087	179	1/2	Road	7	Ploughed in	1 18 6
160	9-089	8-186	9-73	17-1	3136	234	1/2	Road	7	Ploughed in	1 18 6
161	6-156	4-355	14-95	15-5	1522	151	1/2	Road	7	Ploughed in	1 18 6
162	11-848	10-643	10-93	16-8	4005	345	1/2	Road	8	Ploughed in	2 4 0
163	11-709	9-271	15-82	16-8	3489	249	1/2	Road	8	Ploughed in	2 4 0
164	9-958	7-465	25-03	16-0	2675	283	1/2	Road	9	Folded	3 7 6
165	14-245	10-623	25-43	16-1	3331	293	1/2	Road	9	Folded	3 7 6
167	10-314	8-434	18-22	15-8	2985	274	1/2	Rail	9	Folded	3 7 6
168	13-676	10-657	23-07	16-1	3843	347	1/2	Rail	9	Part folded and part ploughed in	2 19 6
169	10-092	6-576	34-79	15-4	2268	189	1/2	Rail	7	Ploughed in	1 18 6
171	9-128	7-431	18-60	15-7	2613	189	1/2	Rail	8	Folded	2 12 0

\* Weighted average of individual consignments. † From field to roadside, wharf or rail station.

‡ From roadside, wharf or rail station to factory: where more than one destination data are given in same order as factories in Appendix A.

Appendix D.

YIELD DATA—continued.

Field Number	Yield in Tons per Acre.		% Tare.	Effective % * Sugar Content.	lb. Sugar (Su-cro-se) per Acre.	lb. Sugar (Su-cro-se) per £ labour.	† Haul-age. Miles.	‡ Method of Transport.	Esti-mated Tons.	Tops per Acre.		Value. £ s. d.
	Un-washed.	Washed.								Method of Disposal.		
172	13-789	9-327	27-10	16-1	3364	322	1/8	Road	10	Carted off .. .. .	3 15 0	
173	12-189	9-416	22-75	16-9	3565	291	1/8	Road	9	Part folded and part ploughed in..	2 19 6	
174	15-654	9-993	36-16	16-2	3626	353	1/8	Road	10	Ploughed in .. .. .	2 15 0	
175	9-009	8-043	10-73	17-1	3081	414	} 1	Rail	7	Folded .. .. .	2 12 6	
176	7-979	7-045	11-70	17-3	2730	342			6	Folded .. .. .	2 5 0	
178	} 5-588	} 4-575	} 18-13	} 15-8	} 1619	} 215	} 1	} Rail	4 1/2	Ploughed in .. .. .	1 4 9	
179									4 1/2	Part folded and part ploughed in..	1 9 9	
180	} 6-525	} 5-793	} 11-23	} 17-2	} 2232	} 216	} 2	} Rail	9	Ploughed in .. .. .	1 4 9	
181									9	Ploughed in .. .. .	2 9 6	
182	} 8-977	} 7-589	} 15-45	} 16-0	} 2720	} 195	} 1/2	} Road	9	Ploughed in .. .. .	2 9 6	
184									13	Ploughed in .. .. .	2 18 6	
185	} 9-160	} 7-303	} 20-27	} 13-9	} 2274	} 219	} 1/2	} Rail	13	Ploughed in .. .. .	2 18 6	
186									13	Ploughed in .. .. .	2 18 6	
187	} 5-803	} 4-944	} 14-81	} 15-8	} 1750	} 182	} 1/2	} Road	8	Ploughed in .. .. .	2 4 0	
188									8	Ploughed in .. .. .	2 4 0	
189	9-720	7-713	20-88	17-4	3006	242	} 1/2	} Water	12	Ploughed in .. .. .	2 14 0	
190	12-261	10-933	10-84	14-0	3429	372			1/2	Ploughed in .. .. .	2 14 0	
191	?	?	?	?	?	?	?	?	?	?	?	
192	?	?	?	?	?	?	?	?	?	?	?	
193	} ?	} ?	} ?	} ?	} ?	} ?	} ?	} ?	?	?	?	
194									?	?	?	?
195	} 10-791	} 9-362	} 13-25	} 16-6	} 3481	} 328	} 3 1/2	} Rail	6 1/2	Part folded and part ploughed in ..	2 2 9	
197									8	Folded .. .. .	3 0 0	
198	6-346	5-536	12-76	16-3	2021	166	2	Rail	8	Carted off .. .. .	3 0 0	
199	9-991	8-398	15-94	16-7	3142	234	1 1/2	Rail	14	Ploughed in .. .. .	3 17 0	

\* Weighted average of individual consignments. † From field to roadside, wharf or rail station.  
 ‡ From roadside, wharf or rail station to factory: where more than one destination data are given in same order as factories in Appendix A.



APPENDIX E.

FIELD COSTS AND RETURNS PER ACRE.

Field Number	1	2	3	4	5	6	7	8	9	10	12	13	14	15	16
Ploughing .. .. .	£ s. d. 1 12 9½	£ s. d. 1 6 9	£ s. d. 17 6	£ s. d. 1 11 6½	£ s. d. 1 4 8	£ s. d. 17 2	£ s. d. 11 9	£ s. d. 1 10 10	£ s. d. 1 10 8½	£ s. d. 18 5½	£ s. d. 15 2½	£ s. d. 9 10	£ s. d. 1 0 10	£ s. d. 19 7½	£ s. d. 15 5
Sub-soiling .. .. .	—	15 2½	9 1	—	—	1 3 5½	—	—	—	—	8 2½	—	—	2 1½	12 7½
Oultivating .. .. .	7 5	15 8½	7 0½	2 9½	12 8	5 4½	—	15 1½	6 10	3 1½	14 8	18 8	—	8 5½	9 10
Steam tackle .. .. .	1 1 8½	—	7 4½	10 1½	18 4½	10 5	4 9	1 8 10	1 1 8	1 2 10½	—	—	—	—	1 3 6½
Harrowing .. .. .	8 8	4 7½	1 1 9½	2 4	2 11½	8 0	2 0½	19 1½	11 1	7 0½	1 9½	8 6½	—	6 6½	14 0½
Rolling .. .. .	—	—	—	—	—	—	—	8 10	2 1½	8 6½	—	—	—	4 2½	8 4½
Other work .. .. .	8 1½	—	—	—	—	—	—	8 3½	2 11½	8 11	—	—	—	5 4½	2 9
Preliminary cultivations .. .. .	8 16 9½	8 2 7½	2 2 9½	2 6 8	2 14 4½	2 18 5	18 6½	5 1 1½	8 15 6½	2 15 6½	2 7 6½	1 9 6	1 16 6½	1 19 10½	8 16 0½
Seed .. .. .	8 3	9 4	7 6½	10 7½	11 1½	8 11½	9 5½	5 10	5 6½	6 2	8 9	7 0	11 8	11 8	11 8
Drilling .. .. .	1 10½	1 9	1 9½	1 6	2 7½	2 1	2 2½	1 8½	1 7½	1 9	1 10½	1 8	2 7½	2 6	2 7½
Bunching, singling and hand hoeing .. .. .	2 4 8	2 0 0	2 4 5½	2 6 8½	2 9 1½	8 2 9	1 6 3	1 0 0	1 8 7	1 10 0	1 18 4	2 4 1	8 12 9½	1 16 5	2 4 2½
Horse hoeing .. .. .	8 7	4 4½	7 2½	8 5½	7 2	6 7	1 6½	10 7½	19 2	11 6½	12 5½	16 10½	11 4½	16 2½	19 7½
Other work .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Seed, drilling and after cultivations .. .. .	8 2 11½	2 15 5½	8 1 0	8 7 2½	8 10 11	4 1 2½	2 0 2	1 18 2½	2 14 11½	2 9 10	2 18 2½	8 9 7½	4 18 5½	8 8 1½	8 18 1½
Applying manures .. .. .	5 4½	2 1	8 10½	16 8	19 5½	2 2½	1 1	—	—	1 0	8 ½	6 3½	10 11½	1 14 9½	16 8½
Artificial* .. .. .	2 8 10	8 8 6½	4 0 8½	2 8 10	8 5 2½	2 18 0	1 18 6½	—	—	2 0 10	8 7 9	1 7 7½	4 18 4	1 6 10½	5 14 4½
Dung* .. .. .	—	—	—	4 1 9½	4 8 10	—	—	—	—	—	—	1 17 6	—	7 4 4 1½	—
Total manures .. .. .	2 9 2½	3 5 7½	4 4 6½	7 6 10½	8 8 6	8 0 2½	1 14 7½	—	—	2 1 10	8 11 6½	8 11 5½	4 7 10	7 5 9½	6 11 0½
Lifting .. .. .	11 7½	7 4	8 5	14 0	9 6	14 4½	9 7 7½	8 0½	8 0½	8 1½	10 7½	2 5 0	2 6 11½	10 7½	7 5
Pull, top and lumping .. .. .	2 0 0	1 16 0	1 18 9½	1 17 0	1 16 0	1 14 0½	1 15 0	1 15 0	1 13 4	1 15 0	2 3 8	2 0 0	2 6 2½	2 8 4	2 11 0½
Loading and haulage† .. .. .	1 17 1½	14 7½	16 1½	2 9 2½	8 7½	15 10½	18 4½	18 7½	14 4½	1 9 1	2 16 1½	2 17 6	1 8 11	1 10 6½	1 19 1½
Total harvesting .. .. .	4 8 9½	2 17 11½	2 18 4	8 0 2½	2 13 1½	8 4 3½	2 18 0	5 1 8½	2 15 9½	3 12 2½	5 10 6½	5 2 6	8 17 1½	4 9 5½	8 17 7
Rent .. .. .	1 0 0	1 1 8½	1 1 8½	1 1 8½	1 1 8½	1 1 8½	1 1 8½	17 2½	17 2½	17 2½	1 5 0	1 2 6	10 1½	10 1½	10 1½
Rates .. .. .	8 9	4 0½	4 0½	4 0½	4 0½	4 0½	4 0½	6 2½	6 2½	6 2½	4 1	4 6	2 8	2 8	2 8
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads .. .. .	2 8 9	2 5 9	2 5 9	2 5 9	2 5 9	2 5 9	2 5 9	2 3 4½	2 3 4½	2 3 4½	2 9 1	2 7 0	1 12 9½	1 12 9½	1 12 9½
Farm cash cost .. .. .	16 1 5½	14 7 4½	14 12 5½	18 6 9½	19 12 8½	15 9 10½	9 17 1½	12 4 4½	11 9 6½	12 19 10	16 16 9½	16 0 1	17 9 9	18 15 1½	19 16 8½
Transport and Grower's Representative .. .. .	1 4 10½	1 10 4½	1 10 4½	1 10 4½	1 10 4½	1 10 4½	1 10 4½	1 5 1½	1 5 5½	1 9 9½	2 14 8½	2 13 6½	1 2 10½	2 2 6½	1 8 4
Total cash cost .. .. .	17 6 3½	15 17 9½	16 2 10½	19 17 2½	21 8 1	17 0 8	11 7 6	13 9 6½	12 15 0	14 9 7½	19 11 6	18 18 7½	18 12 7½	20 18 8	20 18 10½
Gross cash receipts .. .. .	17 1 11	22 1 0½	22 1 0½	22 1 0½	22 1 0½	22 1 0½	22 1 0½	20 5 6	18 4 8½	25 16 7	22 2 7½	25 15 10	14 10 9	23 18 1½	12 1 0
Cash { Profit .. .. .	—	6 8 8	5 18 2½	2 8 10½	17 11½	5 0 9½	10 18 6½	6 15 11½	5 9 8½	11 5 11½	2 11 1½	7 1 4½	—	2 14 7½	—
Loss .. .. .	4 4½	—	—	—	—	—	—	—	—	—	—	—	4 1 10½	—	8 17 10½
Residual values bt. fwd. .. .. .	16 0	1 4 0	10 0	5 0	10 0	1 4 0	2 0 0	1 4 0	1 4 0	10 0	5 0	5 0	2 10 0	2 10 0	5 0
Gross cost .. .. .	18 1 2½	17 1 9½	16 12 10½	20 2 2½	21 18 1	18 4 8	13 7 6	14 13 6½	18 19 0	14 19 7½	19 16 8	18 18 7½	21 2 7½	28 8 6	21 8 10½
Resid. Cult. values od. fwd. .. .. .	1 1 3½	17 5½	16 1	6 4	9 4½	1 1 11	1 2½	1 3 10½	1 7 2½	1 0 1½	18 4	16 8	16 2½	1 0 6½	1 9 11½
Man. " " .. .. .	19 3½	1 0 0½	19 8	2 11 4½	2 14 11½	17 6½	12 3½	—	—	2 10 2½	1 1 7½	1 15 6	1 6 7½	2 8 3½	1 14 11
Top† .. .. .	3 7 6	4 2 6	2 15 0	2 9 6	3 0 6	3 6 0	2 6 9	2 9 6	2 9 6	2 9 6	3 7 6	3 6 0	1 2 0	2 4 0	1 2 0
Total credits .. .. .	5 8 1	5 19 11½	4 10 9	5 7 2½	6 4 10½	5 5 5½	3 0 3	3 13 4½	3 16 8½	3 19 9½	5 7 5½	5 18 2	3 4 10	5 12 10½	4 6 10½
Net cost .. .. .	12 13 2½	11 1 9½	12 2 1½	14 14 11½	15 8 2½	12 18 9½	10 7 8	11 0 1½	10 2 3½	10 19 10	14 9 0½	13 0 5½	17 17 9½	17 16 7½	16 17 0
Net { Profit .. .. .	4 8 8½	10 19 2½	9 18 11½	7 6 1	6 12 9½	9 2 3	11 18 9½	9 5 4½	8 2 5	14 15 9	7 13 6½	12 14 6	8 7 0½	5 17 5½	—
Loss .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4 16 0

\* Vide Appendix C.

† Vide Appendix D.

Appendix E.

FIELD COSTS AND RETURNS PER ACRE—continued.

Field Number .. .. .	17	18	21	22	23	24	25	26	27	28	29	30	31	32
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Ploughing .. .. .	19 9½	13 9½	1 13 7½	1 6 9½	1 1 11	17 0	18 5	1 9 11½	1 11 10	1 12 8½	13 11½	19 4½	14 11½	1 9 6½
Sub-soiling .. .. .	—	—	—	—	18 4	12 3	16 8	—	—	13 7½	—	—	—	—
Cultivating .. .. .	6 6½	6 4	4 0½	18 10½	8 3½	4 1½	—	9 5½	5 3½	2 10½	—	—	—	7 8½
Steam tackle .. .. .	1 6 10½	1 5 6	—	—	—	—	—	—	—	—	—	—	—	—
Harrowing .. .. .	4 10½	3 2½	3 8	5 6	6 5½	6 9½	9 2	6 0½	5 10½	11 3½	4 0½	6 10½	4 11	9 0½
Rolling .. .. .	7 4½	7 11	2 5	14 8	8 7½	10 2½	7 4	5 6½	3 0½	4 6½	5 1½	2 6½	3 9	4 7
Other work .. .. .	5 6½	2 2	—	14 3½	—	—	—	—	—	—	2 8	—	3 11	—
Preliminary cultivations .. .. .	3 8 10½	2 18 11	2 3 6½	4 0 1	3 3 8	2 10 4½	2 11 7	2 10 11½	2 6 0½	3 5 0½	1 5 9½	1 7 9½	1 4 6½	2 10 10½
Seed .. .. .	7 0	7 0	8 2	7 0	10 0	9 11	9 11	8 9	8 9	11 8	8 9	8 9	8 9	9 4
Drilling .. .. .	2 7	2 1½	2 8½	3 9½	3 6½	3 3½	4 1½	1 0	10	2 0½	1 5½	1 10½	1 5	2 11
Bunching, singling and hand hoeing .. .. .	2 6 6½	2 5 0	—	4 9 2	3 1 0½	3 16 2	5 5 1½	1 13 5½	1 19 10½	2 4 6½	1 14 0½	1 18 8	1 13 8½	2 11 3½
Horse hoeing .. .. .	14 4½	7 7½	—	15 10	11 3½	6 9½	17 0½	14 1½	15 3½	10 3	13 1½	12 7½	16 8	11 6
Other work .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Seed, drilling and after cultivations .. .. .	3 10 6½	3 1 9½	—	5 15 9½	4 5 11	4 16 2	6 16 2½	2 17 4	3 4 8½	3 8 6	2 17 4½	3 1 11½	2 19 6½	3 15 0½
Applying manures .. .. .	1 3 7½	1 3 6½	1 14 0½	3 3½	5 5	16 8	14 0½	1 1 8½	1 9	1 0 7	2 8	2 6½	1 5 7	1 4 2½
Artificial* .. .. .	3 15 11	4 4 8	2 0 10	2 0 9	3 8 7½	3 0 1½	4 7 7	3 13 9	3 13 9	6 3 8	2 8 2½	2 12 3	2 10 0½	1 6 3
Dung* .. .. .	4 18 5	5 5 0	3 15 0	—	—	2 2 10½	16 10½	4 10 0	—	—	—	—	3 15 0	4 8 1½
Total manures .. .. .	9 17 11½	10 13 2½	7 9 10½	2 4 0½	3 14 0½	5 19 2½	5 18 2½	9 5 5½	3 15 6	7 4 3	2 10 10½	2 14 9½	7 10 7½	6 18 7
Lifting .. .. .	6 8½	11 11½	—	5 1½	12 8½	11 6½	13 6½	—	—	—	9 4	12 0½	6 6½	12 1½
Pull, top and lumping .. .. .	2 6 10½	2 3 1½	—	3 18 8½	4 3 6½	4 12 6	3 9 3	1 16 2	1 15 11½	2 8 0	1 18 0	1 19 3½	2 2 1	2 10 1
Loading and haulage† .. .. .	1 5 6½	1 7 0½	—	2 2 2½	3 2 3	3 7 2½	3 3 7½	2 4 10	2 9 6	1 12 0	2 3 2	2 19 7½	3 10 5½	1 19 1½
Total harvesting .. .. .	3 19 1½	4 2 1½	—	6 6 0½	7 18 1½	8 11 2½	7 6 5	4 1 0	4 5 5½	4 0 0	4 10 8	5 10 11½	5 19 0½	5 1 3½
Rent .. .. .	1 8 3	1 8 3	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 10 0	1 10 0	1 10 0	1 10 0	1 0 0
Rates .. .. .	5 0½	5 0½	3 3	4 6½	4 6½	4 6½	4 6½	3 4½	3 4½	5 0	2 9	3 5	2 5	3 9½
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads .. .. .	2 13 3½	2 13 3½	2 3 3	2 4 6½	2 4 6½	2 4 6½	2 4 6½	2 3 4½	2 3 4½	2 15 0	2 12 9	2 13 5	2 12 5	2 3 9½
Farm cash cost .. .. .	23 9 9	23 9 3½	—	20 10 6½	21 6 8½	24 1 6½	24 17 2½	20 18 1½	15 15 0½	20 12 9½	18 17 3½	16 8 11½	20 6 1½	20 9 7½
Transport and Grower's Representative .. .. .	2 14 0½	3 13 9½	—	2 17 6½	2 17 6½	2 17 6½	2 17 6½	4 0 9	3 9 9½	3 10 10½	2 13 4½	3 14 0½	2 6 0½	1 9 7½
Total cash cost .. .. .	26 3 9½	27 3 1½	—	23 8 1	24 8 10½	26 19 1	27 14 9	24 18 10½	19 4 10	24 3 8	16 10 5	19 3 0	22 12 2½	21 19 3
Gross cash receipts .. .. .	21 17 11	29 11 2½	—	31 9 0	31 9 0	31 9 0	31 9 0	28 18 8½	30 5 4½	24 7 10½	21 17 3½	27 0 10	18 9 0½	9 3 11½
Cash { Profit .. .. .	—	2 8 1	—	8 0 11	7 5 1½	4 9 11	8 14 3	3 17 10½	11 0 6½	4 2½	5 6 7½	7 17 10	—	—
{ Loss .. .. .	4 5 10½	—	—	—	—	—	—	—	—	—	—	—	4 3 2	13 15 3½
Residual values bt. fwd. .. .. .	7 6	7 6	—	5 0	2 5 0	1 0 0	10 0	5 0	5 0	5 0	15 0	5 0	7 6	5 0
Gross cost .. .. .	26 11 3½	27 10 7½	—	23 13 1	26 8 10½	27 19 1	28 4 9	25 3 10½	19 9 10	24 8 8	17 5 8	19 8	22 19 8½	22 4 3
Resid. Cult. values cd. fwd. .. .. .	1 6 2½	1 0 6	—	16 10½	1 5 3½	15 0½	1 5 8½	14 1	13 5½	1 6 3½	9 10½	9 5½	11 9	10 7½
" Man. " " .. .. .	8 8 2½	3 11 5½	—	10 4½	18 8	1 17 0½	2 15 1½	2 17 2½	12 2½	1 10 11	8 10½	8 8½	2 8 8	2 19 9½
" Topst. " " .. .. .	2 12 0	3 12 6	—	2 15 0	3 15 0	2 15 0	2 12 0	2 6 6	2 5 0	3 0 6	4 10 0	3 7 6	1 10 0	—
Total credits .. .. .	7 6 4½	8 4 5½	—	4 2 2½	5 18 11½	5 7 1½	5 11 10	6 3 3½	3 12 2	5 2 2½	3 19 2½	5 8 1½	6 7 11	4 13 5½
Net cost .. .. .	19 4 11	19 6 1½	—	19 10 10½	20 9 10½	22 11 11½	22 12 11	19 0 6½	15 17 8	19 6 6½	13 6 5½	18 19 10½	16 11 9½	17 10 9½
Net { Profit .. .. .	2 13 0	10 8 0½	—	11 18 1½	10 19 1½	8 17 0½	8 16 1	9 16 2	14 7 8½	5 1 5½	8 10 10	19 0 11½	1 17 3	—
{ Loss .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—	8 6 10½

\* Vide Appendix C. † Vide Appendix D.

70

Appendix E.

FIELD COSTS AND RETURNS PER ACRE—continued.

Field Number	33	34	35	36	37	38	39	40	41	42	43	44	45
Ploughing	\$ 5 d. 1 5 6	\$ 5 d. 1 1 1	\$ 5 d. 1 9 8	\$ 5 d. 2 7 11	\$ 5 d. 1 7 9	\$ 5 d. 1 8 8½	\$ 5 d. 1 4 2½	\$ 5 d. 1 4 6	\$ 5 d. 1 18 3½	\$ 5 d. 1 14 8½	\$ 5 d. 1 19 0½	\$ 5 d. 15 2½	\$ 5 d. 1 10 9
Sub-soiling	—	—	—	—	—	—	—	—	—	—	—	—	—
Cultivating	9 2½	—	4 8½	2 9½	—	—	—	—	—	7 9	3 0½	17 11½	—
Steam tackle	—	12 9	—	—	—	—	—	—	—	14 0	—	—	6 6½
Harrowing	1 4½	6 5	9 5½	15 5½	7 11	5 4½	6 9½	1 3 10½	7 0½	4 5½	10 5½	7 8½	7 0½
Rolling	3 2½	7 0	6 11½	8 6	2 9	2 9	—	—	8 8½	3 2½	6 9½	3 7½	3 9
Other work	—	—	—	5 5	11 7	1 5 1½	8 11½	15 1	—	1 10½	4 9½	3 7½	—
Preliminary cultivations	1 19 2½	2 7 3	2 0 8½	3 15 1½	2 10 0	2 16 6½	1 9 11½	4 6 11½	3 15 9½	1 7 9½	3 10 8½	2 10 2½	2 6 5½
Seed	9 4	9 2	8 9	8 9	8 2	8 1½	7 5	7 0	8 9	10 6	10 6	10 6	8 2
Drilling	2 8½	2 1½	1 6½	2 7½	1 0½	2 3½	2 8½	2 1½	8 2½	2 8½	2 11½	2 7	2 2½
Bunching, singling and hoeing	2 9 7	2 18 11½	1 19 6	2 5 5½	2 5 11	3 7 6½	3 3 9½	1 12 11½	1 15 0	1 14 8	1 16 5½	2 5 4½	2 4 5½
Horse hoeing	8 1	12 11½	9 8½	1 1 6½	10 10	16 0½	19 0½	10 4½	1 11 10½	19 9	17 7½	10 9½	8 5½
Other work	—	—	—	—	—	—	—	—	—	—	—	—	—
Seed, drilling and after cultivations	3 9 3½	4 3 2½	2 19 1	3 18 4	3 5 11½	4 14 0	4 12 11½	2 12 5½	3 18 9½	3 7 2½	3 7 6½	3 9 3½	3 8 0
Applying manures	2 8½	1 5 6½	19 5½	1 12 0½	1 5 10	1 0½	1 7 11	2 0 2	17 1½	2 5	1 8½	2 0	1 9 2½
Artificial	1 6 0½	2 7 4½	5 16 0½	3 19 0	4 5 7½	2 1 5	2 7 4	2 18 9½	3 1 5	3 4 11	2 17 10½	3 10 0	3 0 0
Dung	—	6 19 3	3 15 0	4 10 0	3 12 0	—	2 14 6½	4 10 0	2 12 6	—	—	—	3 15 0
Total manures	1 8 9	10 12 2½	10 10 6	10 1 0½	9 3 5½	2 2 5½	6 9 9½	9 8 11½	6 11 0½	3 7 4	2 19 8	3 12 0	3 8 4 2½
Lifting	4 10 0	5 11	6 11	13 7½	7 4½	7 4½	6 2½	2 5 0	2 1 1½	12 11	9 4½	12 6½	3 4 6½
Full, top and lumping	1 0 0	4 1 3½	4 15 2	2 15 0	4 16 6	2 13 9	2 3 11 1	3 9 0½	16 8	2 5 0	2 5 0	2 5 0	3 8 8½
Loading and haulage	1 0 0	2 1 8½	2 3 5	19 8	3 18 4½	1 17 9½	3 9 0½	—	—	1 11 8½	5 2½	2 19 9½	1 6 5½
Total harvesting	5 10 0	6 8 6	7 5 6	4 8 3½	4 16 6	6 19 5½	4 7 11	5 14 0½	2 17 9½	4 9 2½	2 19 7	6 11 4½	4 17 8½
Rent	17 6	1 10 0	1 10 0	1 5 0	1 10 0	2 0 0	2 0 0	1 15 0	1 5 0	1 7 6	1 7 6	1 7 6	1 5 0
Rates	3 5½	3 3½	3 3½	8 0	3 10	5 0	5 0	3 4½	5 7	7 4	7 4	7 4	5 5½
Establishment	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads	2 0 11½	2 13 3½	2 13 3½	2 8 0	2 13 10	3 5 0	3 5 0	2 18 4½	2 10 7	2 14 10	2 14 10	2 14 10	2 10 5½
Farm cash cost	14 8 1½	26 4 5½	25 9 1½	24 10 9½	22 9 9	19 17 5½	20 5 8	25 0 9½	19 14 0	15 6 4½	15 12 4	17 17 8½	21 1 9½
Transport and Grower's Representative	2 1 10½	1 15 4½	3 6 5½	1 19 5	3 5 6½	3 16 8	2 0 4½	2 16 9½	1 19 3½	1 2 0½	1 18 7½	2 10 7½	2 0 8
Total cash cost	16 10 0½	27 19 10	28 15 6½	26 10 2½	25 15 3½	23 14 1½	22 6 0½	27 17 7½	21 13 3½	16 8 5	17 10 11½	20 8 3½	23 2 0½
Gross cash receipts	15 0 5½	28 10 7	23 7 5½	24 8 8½	25 11 6½	23 3 4½	13 15 10½	17 4 9½	13 8 8½	23 5 9½	18 0 9	24 4 3½	19 6 8
Cash Profit	—	10 9	—	—	—	—	—	—	—	6 17 4½	9 7	3 15 11½	—
Cash Loss	1 9 7	—	5 8 0½	2 1 6½	3 8½	10 9½	8 10 2½	10 12 9½	8 4 7½	—	—	—	3 15 9½
Residual value bt. fwd.	2 7 8	2 0 0	1 2 6	5 0	5 0	2 7 6	2 5 0	2 7 6	5 0	15 0	5 0	15 0	5 0
Gross cost	18 17 6½	29 19 10	29 18 0½	26 15 2½	26 0 3½	26 1 7½	24 11 0½	28 5 1½	21 18 3½	17 3 5	17 15 11½	21 8 3½	23 7 0½
Resid. Cult. values cd. fwd.	8 0½	16 1½	9 0	10 1½	8 1½	12 0½	14 8	1 3 9½	1 12 10½	14 9½	16 8½	1 0 0½	8 4
Man.	8 10½	3 14 8½	3 15 3½	3 0 6	3 8 5½	9 0½	16 4½	2 17 6	2 1 7½	17 8	14 5½	1 13 4	2 12 6
Topsoil	2 19 6	3 17 0	3 5 0	3 6 0	3 18 0	3 6 0	1 13 0	3 0 0	1 13 6	3 18 0	3 18 0	3 18 0	3 15 0
Total credits	3 16 5	8 7 9½	7 9 3½	6 16 7½	7 14 7	4 7 1	3 3 7½	7 1 3½	5 8 0	5 10 5½	5 9 2½	6 11 4½	6 15 10
Net cost	15 1 1½	21 12 0½	22 8 9	19 18 7	18 5 8½	21 14 6½	21 7 5½	21 8 10	16 10 8½	11 12 11½	12 6 9	14 11 11	16 11 2½
Net Profit	—	6 18 6½	18 8½	4 10 1½	7 5 10½	1 8 9½	—	—	—	11 12 10	5 13 9½	9 13 4½	2 15 0½
Net Loss	8	—	—	—	—	—	7 11 7½	3 19 0½	3 1 7½	—	—	—	—

\* Vide Appendix C. † Vide Appendix D.

71

Appendix E.

FIELD COSTS AND RETURNS PER ACRE—continued.

Field Number	46	47	48	49	50	51	52	53	55	56	57	58	59
	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.
Ploughing	1 10 6½	1 8 1½	8 11	1 6 11½	2 9 8½	2 14 0	2 14 8	1 17 6½	2 1 3½	2 10 8½	2 5 10½	1 19 8½	17 6
Sub-soiling	—	—	—	—	—	18 8½	—	—	—	—	—	—	—
Cultivating	7 6	—	8 4	4 10	4 10	—	10 8	8 5½	—	10 0½	11 1½	5 9½	2 10½
Steam tackle	—	—	—	—	—	2 7 1½	—	—	—	—	—	—	—
Harrowing	4 6½	5 9	4 11	3 9½	7 8½	10 0½	11 10	10 4	1 8 2½	9 5	16 10½	5 9½	2 10½
Rolling	1 6½	—	3 8½	3 6½	5 7½	10 2½	14 5½	8 11	13 3½	6 5½	4 0½	4 10	2 10½
Other work	9 9½	14 1½	5 9	9 2	—	4 0½	—	—	—	—	2 7½	—	—
Preliminary cultivations	2 13 6½	2 8 0½	1 11 8½	2 14 8½	3 7 5½	6 18 9½	4 10 9½	3 0 8	3 17 9½	3 18 7½	4 0 6	2 16 2	1 6 1½
Seed	8 2	8 9	8 2	5 8	10 6	9 8½	8 9	6 6½	10 6	12 5	10 6	8 2	8 8½
Drilling	2 9	2 7	1 5½	3 4½	2 10½	2 8½	8 8½	8 2½	3 9	2 4½	2 5½	4 10	3 8
Bunching, singling and hand hoeing	1 8 0	2 18 10½	1 16 10½	1 5 8½	2 13 6½	3 5 11	4 18 0	2 7 2½	3 5 5½	2 5 8½	3 1 8½	3 8 9	2 19 11½
Horse hoeing	12 5½	18 4½	14 2	6 6½	12 6½	8 5½	13 9½	11 9½	12 6½	18 2	13 2½	5 10½	9 5
Other work	—	—	—	—	—	—	—	—	—	—	—	—	—
Seed, drilling and after cultivations	2 11 4½	4 8 8½	3 0 8	2 0 9½	3 19 5½	4 6 10	6 8 10	3 12 8½	4 12 2½	3 18 2½	4 7 9½	4 7 7½	4 1 9
Applying manures	1 3½	1 0½	4 8½	19 10	16 7½	5 4½	7 3	1 3 5	1 7 4½	1 2 8½	6 6½	1 18 8½	6 8
Artificial*	2 8 7	3 12 8	3 13 0	3 17 0	13 2	3 11 1½	5 7	2 14 0	3 6 7½	1 1 9	1 17 8½	2 0 5½	2 12 1½
Dung**	—	—	—	3 7 4	3 0 0	—	—	2 12 6	3 15 0	4 1 10	1 7 3½	5 5 0	—
Total manures	2 9 10½	3 13 8½	3 17 8½	5 4 4	4 8 9½	3 18 6	6 8 2½	6 9 11½	5 8 11½	6 5 10½	3 11 1	9 2 1½	2 18 9½
Lifting	2 0 0	2 0 0	2 0 0	5 0	8 9	11 2½	18 10½	11 8½	6 6½	9 3	5 3½	?	8 4½
Pull, top and lumping	2 4 4½	2 4 8½	2 4 4	3 8 0½	4 13 11½	3 0 7½	3 14 10½	2 6 0½	1 13 4	2 4 4	4 1 4	?	4 1 7½
Loading and banlage†	4 4 4½	4 4 8½	4 4 4	3 8 0½	5 2 8½	4 7 7½	1 14 4	1 12 2½	2 8 0	5 6 8½	?	?	1 8 2½
Total harvesting	4 4 4½	4 4 8½	4 4 4	3 8 0½	5 2 8½	7 19 6½	6 8 1½	4 10 0½	4 7 10½	5 15 11½	4 6 7½	?	5 18 2
Rent	1 10 0	1 10 0	1 10 0	1 12 0	1 12 0	1 0 0	1 0 0	16 0	1 15 0	1 15 0	1 15 0	1 4 0	1 12 0
Rates	5 0	5 0	5 0	5 10	5 10	1 8	3 2½	5 6½	7 9½	7 9½	7 9½	3 0	9 3
Establishment	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads	2 15 0	2 15 0	2 15 0	2 17 10	2 17 10	2 1 8	2 5 2½	2 1 5½	3 2 9½	3 2 9½	3 2 9½	2 7 0	3 1 3
Farm cash cost	14 14 2	17 4 2½	15 9 4½	16 5 8½	19 16 2½	25 8 2½	19 12 1½	19 14 4½	21 9 8	22 19 5½	19 8 10	?	17 6 1
Transport and Grower's Representative	2 18 8½	2 18 8½	2 18 4	1 13 1½	1 16 4½	2 8 8½	3 6 6½	3 7 5½	2 0 7½	2 0 7½	2 0 7½	—	2 7 5
Total cash cost	17 12 6½	20 2 6	18 7 8½	17 18 5½	21 12 7½	27 6 6	22 18 8½	23 1 9½	23 10 8½	25 0 1	21 9 5½	—	19 13 6
Gross cash receipts	19 1 9	19 1 9	19 1 9	18 15 8½	21 18 0½	10 8 10½	10 4 10½	19 15 8½	21 17 5½	21 17 5½	21 17 5½	Costs incomplete.	19 19 11½
Cash (Profit)	1 9 8½	—	14 0½	18 10½	5 5	—	—	—	—	—	—	—	6 5½
Loss	—	1 0 9	—	—	—	17 2 7½	12 13 10	3 6 1	1 12 10	3 2 7½	—	—	—
Residual values bt. fwd.	7 6	7 6	7 6	5 0	5 0	1 16 0	1 4 0	2 15 0	5 0	5 0	1 0 0	—	1 15 0
Gross cost	17 19 11½	20 10 0	18 15 2½	18 3 5½	21 17 7½	29 2 6	24 2 8½	25 16 9½	23 15 3½	25 5 1	22 9 5½	—	21 8 6
Resid. Cult. values od. fwd.	13 4½	10 0½	14 1½	6 10	11 4½	1 18 9½	13 8½	8 10½	2 9 4½	13 7½	9 10½	8 6 5½	6 10
" Man. " "	12 1½	18 0½	14 10½	1 14 7½	1 10 2½	1 0 6½	—	1 19 9	2 0 9½	2 5 8½	18 0½	8 5 6½	10 6
Topst " " "	1 18 6	1 18 6	1 18 6	2 4 0	2 9 6	1 18 0	1 6 0	2 16 0	2 19 6	2 19 6	2 19 6	—	2 12 0
Total credits	3 4 0	3 6 7½	3 7 6	4 5 6½	4 11 1½	4 12 2½	1 19 9½	5 3 7½	5 9 8½	5 18 5½	4 7 5	—	3 9 4
Net cost	14 15 11½	17 3 4½	15 7 8½	18 17 11½	17 6 5½	24 10 8½	22 2 10½	20 13 2½	18 5 7½	19 6 7½	18 2 0½	—	17 19 2
Net (Profit)	4 5 9½	1 18 4½	3 14 0½	4 17 4	4 11 6½	—	—	—	8 11 10½	2 10 10	8 15 5	—	2 0 9½
Loss	—	—	—	—	—	14 6 4½	11 18 0½	17 6½	—	—	—	—	—

72

\* Vide Appendix C

† Vide Appendix D.

Appendix E.

FIELD COSTS AND RETURNS PER ACRE—continued.

Field Number.	60	61	62	63	64	65	66	67	68	69	70	71	72
	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.
Ploughing .. .. .	1 9 4	1 15 8	2 17 3	1 7 2	18 0	1 10 6	1 13 8	1 13 2	16 11	17 4	2 4 10	2 4 10	2 6 0
Sub-soiling .. .. .	17 7	—	—	—	—	1 1	—	—	—	4 11	17 10	16 6	—
Cultivating .. .. .	17 9	5 1	6 10	5 7	—	5 9	2 10	5 1	—	—	5 8	6 6	1 9 5
Steam tackle .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Harrowing .. .. .	10 5	9 11	6 3	6 3	5 8	5 9	7 0	5 1	7 9	6 11	3 0	4 11	2 11
Rolling .. .. .	2 7	6 1	3 0	2 8	3 2	2 8	4 8	3 7	7 2	6 2	11 10	7 8	11 0
Other work .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Preliminary cultivations ..	3 17 8	2 16 9	3 13 5	2 1 9	1 6 11	2 5 6	2 7 10	2 7 0	1 11 10	1 14 4	4 4 11	4 0 7	4 8 4
Seed .. .. .	16 0	8 2	8 9	7 11	8 0	8 9	8 9	9 4	9 4	8 9	8 0	7 1	8 9
Drilling .. .. .	4 1	2 4	2 2	2 0	1 11	1 8	1 9	2 7	3 4	8 5	1 11	2 6	1 11
Bunching, singling and hand hoeing .. .. .	—	1 12 5	3 9 11	3 15 0	2 1 5	3 18 4	4 2 10	4 1 5	3 11 4	3 10 0	1 10 10	3 1 7	3 6 1
Horse hoeing .. .. .	—	17 2	11 5	8 5	10 6	7 9	11 0	12 11	9 8	13 0	1 1 9	9 10	1 0 8
Other work .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Seed, drilling and after cultivations .. .. .	—	3 0 1	4 12 4	4 13 4	3 2 0	4 16 6	5 4 4	5 17 0	4 13 8	4 15 2	3 2 1	4 1 1	4 17 6
Applying manures .. .. .	1 8 1	1 0 9	3 5	13 1	5 7	2 4	3 11	2 6 9	1 6	16 6	2 6 1	2 1 10	1 8 11
Artificial* .. .. .	2 7 6	2 14 4	4 0 1	2 4 7	4 17 10	3 8 9	3 18 4	1 9 4	3 3 7	6 6 8	2 1 4	1 11 1	—
Dung* .. .. .	3 15 0	3 15 0	—	1 19 6	—	—	—	8 12 6	—	1 10 0	5 16 8	6 0 0	4 10 0
Total manures .. .. .	7 10 7	7 10 1	4 3 6	4 17 2	5 3 5	3 11 2	4 2 3	12 8 7	3 5 1	8 13 3	10 4 1	9 12 11	5 18 11
Lifting .. .. .	—	17 7	12 7	11 8	11 6	11 9	19 3	16 10	18 11	15 9	3 0 8	12 5	10 2
Full, top and lumping .. .. .	—	2 9 7	3 19 4	3 6 5	3 14 9	5 6 11	3 4 1	3 6 2	2 5 9	4 12 8	2 0 0	2 5 0	2 5 0
Loading and haulage† .. .. .	—	4 18 6	4 8 0	6 18 2	4 4 0	5 18 8	5 3 7	4 7 6	2 12 1	2 0 8	4 1 0	5 1 7	3 12 10
Total harvesting .. .. .	—	8 5 8	8 19 11	8 10 3	8 10 3	9 7 0	8 10 6	5 16 9	7 9 1	7 1 8	7 1 8	7 14 0	6 8 1
Rent .. .. .	1 0 0	1 4 5	1 4 5	1 4 5	1 4 5	1 4 5	1 4 5	16 9	1 15 0	3 10 0	12 9	12 9	1 10 0
Rates .. .. .	3 3	4 8	4 8	4 8	4 8	4 8	4 8	2 4	5 8	6 3	8 1	3 1	4 1
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads .. .. .	2 3 3	2 9 1	2 9 1	2 9 1	2 9 1	2 9 1	2 9 1	1 19 1	3 0 3	4 16 3	1 15 10	1 15 10	2 14 1
Farm cash cost .. .. .	—	24 1 9	23 18 5	20 19 8	20 11 10	19 1 1	23 10 7	31 2 4	18 7 7	27 8 2	26 8 8	27 4 6	24 2 0
Transport and Grower's Representative .. .. .	—	3 6 10	2 10 11	2 8 11	2 2 4	1 19 9	2 7 5	3 0 11	1 19 5	3 10 0	1 17 4	2 18 5	2 10 0
Total cash cost .. .. .	—	27 8 7	26 9 5	23 8 8	22 14 2	21 0 10	25 18 0	34 3 3	20 7 0	30 18 2	28 6 1	29 18 0	26 12 1
Gross cash receipts .. .. .	—	34 8 10	26 6 8	27 18 5	20 11 1	23 6 1	23 17 0	21 1 9	19 12 1	36 4 2	17 13 3	28 18 7	25 11 7
Cash Profit .. .. .	—	7 0 2	—	4 9 8	—	2 5 7	—	—	—	5 6 0	—	—	—
Cash Loss .. .. .	—	—	2 8	—	2 3 1	—	2 1 0	13 1 6	14 10	—	10 12 10	19 5	1 0 5
Residual values bt. fwd. .. .. .	—	5 0	5 0	10 0	1 10 0	10 0	7 6	7 6	3 10 0	—	10 0	10 0	16 0
Gross cost .. .. .	—	27 13 7	26 14 5	23 18 8	24 4 2	21 10 10	26 5 8	34 10 9	20 14 6	34 8 2	28 18 1	30 8 0	27 8 1
Resid. Cult. values cd. fwd. .. .. .	—	12 10	10 7	8 2	7 11	8 7	8 3	11 8	7 2	13 1	1 9 10	1 0 4	1 0 6
Man. .. .. .	—	2 11 6	19 9	1 14 10	1 2 9	18 6	4 17 7	15 11	2 8 5	3 7 4	3 7 9	3 7 9	2 5 0
Top† .. .. .	—	2 9 6	2 4 0	2 4 0	2 4 0	2 6 6	3 7 6	2 15 0	3 5 0	4 10 0	3 0 0	4 10 0	3 7 6
Total credits .. .. .	—	5 13 11	3 14 4	4 7 1	3 14 9	3 13 7	4 13 10	8 4 4	4 8 1	7 11 6	7 17 2	8 18 1	6 13 0
Net cost .. .. .	—	21 19 8	23 0 1	19 11 7	20 9 5	17 17 3	21 11 8	26 6 5	16 6 5	26 18 8	20 18 10	21 9 11	20 15 0
Net Profit .. .. .	—	12 9 2	3 6 8	8 6 10	1 7	5 9 2	2 5 4	5 4 8	3 5 8	9 7 6	—	7 8 8	4 18 7
Net Loss .. .. .	—	—	—	—	—	—	—	—	—	—	3 5 7	—	—

73

\* Vide Appendix C      † Vide Appendix D.

Appendix E.

FIELD COSTS AND RETURNS PER ACRE—continued.

Field Number	73	74	75	76	77	78	82	83	84	85	86	87	88
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Ploughing .. .. .	1 4 11	17 9½	1 7 0½	1 14 6	9 2½	15 10	—	1 13 9½	1 17 0	1 6 1½	1 13 11½	1 11 3	1 18 1½
Sub-soiling .. .. .	—	—	—	—	—	14 6	—	—	—	—	—	—	—
Cultivating .. .. .	9 1½	5 10	—	5 3	8 4½	1 6	—	9 8½	4 1½	14 5	7 9½	9 1	—
Steam tackle .. .. .	—	—	—	1 1 7½	1 6 6	—	—	—	—	—	—	—	—
Harrowing .. .. .	3 6½	4 11	12 8½	4 10½	11 7½	6 1	1 3½	11 7	7 11½	6 6½	11 0	10 11½	5 11½
Rolling .. .. .	5 11½	4 11	9 11½	3 10½	6 11	6 4½	2 8½	7 7½	1 8½	9 5	10 6½	2 1½	1 11½
Other work .. .. .	—	—	—	3 4½	1 9	—	1 6 3	—	19 5	2 8½	6 6 3½	17 4	14 8½
Preliminary cultivations ..	2 3 8½	1 13 5½	2 9 8½	3 12 7½	2 19 4½	2 4 8½	1 10 3½	3 2 9	3 10 8½	2 19 3	3 9 7½	3 10 9½	3 0 8½
Seed .. .. .	8 9	8 9	5 10	7 0	7 11	7 0	4 8	6 7½	7 0	10 4	10 6	7 0	7 0
Drilling .. .. .	1 8½	1 6	1 8½	3 0½	3 2½	1 6½	1 9½	3 7½	2 11	3 10	4 6½	4 5	2 8
Bunching, singling and hand hoeing .. .. .	2 12 9½	2 14 0	1 15 0	3 0 0	2 17 1½	2 15 0	18 7½	3 4 6½	2 18 7½	3 3 7½	2 0 6	2 17 7½	2 14 10½
Horse hoeing .. .. .	1 6 11½	1 2 2½	1 14 9½	7 3½	12 3	1 4 4½	1 4 1½	14 5	2 11½	12 8	13 6	9 4	6 2½
Other work .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Seed, drilling and after cultivations .. .. .	4 10 2½	4 6 7½	3 17 4½	3 17 4	4 0 6	4 8 5½	2 9 3½	4 9 2½	3 11 6	4 10 5½	3 9 0½	3 18 4½	3 10 9½
Applying manures .. .. .	1 5 3½	1 0 ½	8 0	3 4 5½	11 4½	1 6 10½	10 10½	2 15 9½	1 2½	5 5½	3 7½	1 7 8½	11½
Artificials* .. .. .	1 14 0	1 11 6½	1 10 0	3 9 10½	1 8 11½	2 16 0	1 12 0	2 0 3	1 5 0½	5 15 7	4 4 9½	3 14 4½	4 7 0
Dung* .. .. .	4 2 6	—	—	9 10	2 19 7½	3 12 2½	—	3 15 0	—	—	—	1 17 6	—
Total manures .. .. .	7 1 9½	1 12 7½	1 13 0	3 14 4	4 14 10½	7 15 0½	1 12 10½	3 11 0½	1 6 8½	6 1 0½	4 8 5½	6 19 7½	4 7 11½
Lifting .. .. .	18 9½	7 8	—	15 11½	15 0	10 2	1 1 2	11 8½	—	—	—	8 5½	7 10
Pull, top and lumping .. .. .	2 0 0	—	—	3 0 0	3 1 2½	1 18 6	3 1 3	2 2 8	1 10 0	2 12 10½	2 6 0	1 15 9½	2 0 0
Loading and haulage† .. .. .	1 9 1½	7 11 4½	2 18 0	2 6 0½	2 8 7½	14 7	2 16 0	2 8 6½	14 8½	1 17 10½	2 8 10½	1 18 11½	1 4 7½
Total harvesting .. .. .	4 2 11	7 19 0½	5 13 0	6 1 11½	6 4 10½	3 3 3	6 18 5	5 2 11	2 4 8½	4 19 6½	5 5 10½	4 3 2½	3 12 5½
Rent .. .. .	1 10 0	1 10 0	1 15 0	1 5 0	1 6 7	1 5 0	2 0 0	1 5 0	1 5 0	1 10 0	1 10 0	1 3 0	1 3 0
Rates .. .. .	4 1½	4 1½	15 11	2 6	3 8½	3 8	11 1	3 9½	2 8	5 10	5 10	4 3	4 3
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads .. .. .	2 14 1½	2 14 1½	3 10 11	2 7 6	1 10 1½	2 8 8	3 11 1	2 8 9½	2 7 8	2 15 10	2 15 10	2 7 3	2 7 3
Farm cash cost .. .. .	20 12 7	18 5 9½	17 8 11½	19 18 9½	19 9 8½	19 19 8½	16 1 11½	23 14 8	13 0 10½	21 6 1½	19 8 9½	20 19 8	16 19 1½
Transport and Grower's Representative .. .. .	2 10 0½	2 10 0½	1 11 9½	2 1 4½	3 11 6½	2 17 2½	1 0 5½	2 13 1½	2 9 9½	2 11 8½	2 9 9½	2 3 7½	2 3 0½
Total cash cost .. .. .	23 2 7½	20 15 10	18 15 9½	21 15 2	23 1 8½	22 16 10½	17 2 4½	26 7 9½	15 10 7½	23 17 10	21 18 7½	23 2 10½	19 2 2½
Gross cash receipts .. .. .	25 11 7½	25 11 7½	19 8 2	25 7 0½	24 7 8½	18 14 11½	20 17 2	22 11 10½	23 8 9½	25 6 6½	24 10 2	20 19 1½	13 8 11
Cash { Profit .. .. .	2 9 0½	4 15 9½	12 4½	3 11 10½	1 6 4½	—	3 14 9½	—	7 18 1½	1 8 8½	2 11 6½	—	—
Loss .. .. .	—	—	—	—	—	4 1 11½	—	3 15 10½	—	—	—	2 10 9½	5 13 8½
Residual values bt. fwd. ..	5 0	1 0 0	2 5 0	5 0	5 0	1 2 6	15 0	5 0	10 0	2 0 0	1 10 0	1 5 0	1 5 0
Gross cost .. .. .	23 7 7½	21 15 10	21 0 9½	22 0 2	23 6 8½	23 19 4½	17 17 4½	26 12 9½	16 0 7½	25 17 10	23 8 7½	24 7 10½	20 7 2½
Resid. Cnt. values od. fwd. ..	1 3 9	18 7½	1 6 1½	18 9½	11 2	1 8 0	18 0	14 3½	4 2½	13 6	13 7½	9 0	4 9
" Man. " " .. .. .	2 12 7	10 0½	17 8½	17 11	1 15 9½	2 16 11½	8 0	2 6 11½	4 0	1 16 10	1 3 0½	1 18 6½	14 6
Tops† .. .. .	2 9 6	2 19 6	2 14 0	3 7 6	2 9 6	3 15 0	1 7 0	2 5 0	3 6 0	5 5 0	5 5 0	2 4 0	2 15 0
Total credits .. .. .	6 5 10	4 8 8½	4 17 9½	5 3 8½	4 16 8½	7 19 11½	2 13 0	5 6 3	3 14 2½	7 15 4	7 1 8½	4 11 5½	3 14 3
Net cost .. .. .	17 1 9½	17 7 1½	16 2 11½	16 16 5½	18 9 10½	15 19 5	15 4 4½	21 6 6½	12 6 4½	18 2 6	16 6 11	19 16 8½	16 12 11½
Net { Profit .. .. .	8 9 10	8 4 5½	3 5 2½	3 10 6½	5 17 9½	2 15 0½	5 12 9½	1 5 4½	11 2 4½	7 4 0½	8 3 3	15 8½	—
Loss .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	3 9 0½

\* Vide Appendix C.

† Vide Appendix D.

Appendix E.

FIELD COSTS AND RETURNS PER ACRE—continued.

Field Number..	89	90	91	92	93	94	95	96	97	98	99	100	101
Ploughing .. .. .	\$ s. d. 17 11½	\$ s. d. 1 12 9½	\$ s. d. 2 9 11½	\$ s. d. 1 16 3	\$ s. d. 1 8 8	\$ s. d. 1 5 2	\$ s. d. 1 3 8½	\$ s. d. 1 6 8½	\$ s. d. 1 18 7	\$ s. d. 1 7 6½	\$ s. d. 1 6 7½	\$ s. d. 1 6 1½	\$ s. d. 1 6 10½
Sub-soiling .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Cultivating .. .. .	5 7	4 3½	—	—	—	—	—	—	—	—	—	—	—
Steam tackle .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Harrowing .. .. .	8 10½	8 8½	6 11½	12 8	18 6½	2 8	2 8	3 11	1 2 0½	7 6	3 1½	10 4	14 10½
Rolling .. .. .	4 3½	4 5½	8 8½	14 5	5 7½	5 11½	8 9½	2 0	2 9½	8 8½	5 5½	7 0	9 0½
Other work .. .. .	17 8½	19 2½	17 2½	—	—	7 6	7 6	—	1 4½	—	1 1½	—	2 11½
Preliminary cultivations ..	2 14 1½	3 9 4	3 17 7½	3 3 4	3 2 8½	3 1 0½	2 4 7½	1 16 9½	3 10 6	2 15 6	2 2 2	2 8 5½	2 8 8½
Seed .. .. .	7 0	5 10	7 0	8 9	7 10½	7 0	7 11½	5 10	8 9	8 9	8 9	8 2	7 0
Drilling .. .. .	1 9½	8 0½	8 8½	8 2½	2 1½	8 8½	4 2½	3 0½	1 0½	1 10½	4 3½	2 8½	4 8
Bunching, singling and hand hoeing .. .. .	2 1 3	3 1 11½	3 5 2	1 19 7½	1 16 0	2 0 5½	1 13 0½	1 10 1½	1 13 8	2 12 0½	1 16 8	1 7 11½	3 11 9
Horse hoeing .. .. .	6 2½	11 9½	15 4½	13 6	13 11½	13 1½	7 2½	11 1½	14 10	11 4	5 5½	8 8	11 11½
Other work .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Seed, drilling and after cultivations .. .. .	2 16 8	4 2 8	4 11 3½	3 5 1½	2 19 11½	3 4 3½	3 12 9	2 10 1½	2 18 9½	3 14 0½	2 15 2½	2 7 6½	4 15 4½
Applying manures .. .. .	1 0 3	1 3 1½	2 12 3	1 17 11½	2 4½	19 4	17 4½	—	16 2½	1 5½	3 4	3 8	5 9½
Artificial* .. .. .	2 1 10	3 8 1½	3 12 3½	3 17 0	1 13 1½	3 0 9½	15 8	—	1 10 9½	2 16 5½	1 12 0	2 12 8½	2 12 8½
Dung* .. .. .	4 10 0	4 0 7½	3 15 0	3 5 7½	—	4 15 6	8 15 0	—	3 0 0	—	—	—	—
Total manures .. .. .	7 12 1	8 11 10½	9 19 5½	9 0 7½	1 15 5½	8 15 7½	5 7 7½	—	5 12 11½	2 17 11	1 15 4	2 16 4½	2 18 6½
Lifting .. .. .	1 6 8	8 8	10 11½	11 3	10 2½	9 11½	19 2½	15 7½	10 3½	9 0½	6 5½	15 6	16 6
Full, top and lumping .. .. .	—	2 0 1½	2 0 6	2 1 1½	1 15 0	2 4 3	3 4 4½	2 15 0	2 0 0	2 10 0½	1 18 2½	2 10 0	2 10 0
Loading and haulage† .. .. .	18 11½	1 5 8	1 14 4½	1 12 7	1 15 11	1 2 0½	1 5 6	2 2 8	2 15 10	1 9 3½	10 4½	2 0 0	2 0 0
Total harvesting .. .. .	2 5 7½	3 14 5½	4 5 10½	4 4 11½	4 1 1½	3 16 2½	5 9 1	5 13 8½	5 6 1½	4 8 4½	2 15 1½	5 6 6	5 6 6
Rent .. .. .	1 3 0	1 0 0	1 10 0	1 10 0	1 6 0½	1 5 0	2 0 10	2 0 0	10 0	1 0 0	3 7 6	18 3	18 3
Rates .. .. .	4 3	5 5½	4 2	5 5	5 5½	6 5	6 3	6 0	2 0½	1 8 5½	7 0	2 1	2 1
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads .. .. .	2 7 3	2 5 5½	2 14 2	2 15 5	2 11 5½	2 11 5	8 7 1	3 6 0	1 12 0½	2 8 5½	4 14 8	2 0 4	2 0 4
Farm cash cost .. .. .	17 15 3½	22 5 9½	25 8 5	22 9 5	14 10 9	21 8 8½	20 1 2	13 6 2	19 0 6	16 4 3½	14 2 8½	14 13 2	17 8 5
Transport and Grower's Representative .. .. .	10 5½	2 15 11	2 5 0½	1 4 8½	1 3 10½	2 2 3½	2 9 9	1 0 3½	2 4 6½	2 7 6½	1 11 1½	1 9 9½	3 1 7½
Total cash cost .. .. .	18 5 9	24 19 8½	27 13 5½	23 14 1½	15 19 7½	23 10 10½	22 10 11	14 6 5½	21 5 0½	18 11 9½	15 18 5½	16 2 11½	20 10 0½
Gross cash receipts .. .. .	10 6 4½	31 6 8½	23 1 10½	19 19 2½	21 13 6	18 4 9½	26 0 11½	12 17 9½	19 15 5½	18 15 7½	18 10 8½	13 0 10	25 15 1½
Cash { Profit .. .. .	—	6 7 0	—	—	5 13 10½	—	3 10 0	—	—	3 9½	2 18 10	—	5 5 1½
Loss .. .. .	7 19 4½	—	4 11 7½	3 14 10½	—	5 6 1	—	1 8 7½	1 9 7	—	—	3 2 1½	—
Residual values bt. fwd. ..	10 0	5 0	14 0	10 0	5 0	2 5 0	5 0	10 0	5 0	1 0 0	5 0	1 4 0	1 4 0
Gross cost .. .. .	18 16 9	25 4 8½	28 7 5½	24 4 1½	16 4 7½	25 15 10½	22 15 11	14 16 9½	21 10 0½	19 11 9½	15 18 5½	17 6 11½	21 14 0½
Resid. Cult. values cd. fwd. ..	4 9	10 9½	11 6½	10 1½	1 0 4½	19 9	8 11½	8 3½	14 7½	12 6	6 1½	6 6	9 0
Man. " " .. .. .	3 11 1½	3 13 9	3 3 4	3 7 1½	8 11½	3 9 3	2 1 3½	—	1 8 0½	17 0	10 8	16 8	16 8
Top† .. .. .	2 5 0	3 5 0	4 10 0	2 4 0	3 5 0	2 19 6	3 5 0	2 9 6	2 4 0	2 1 3	2 0 6	1 7 6	2 0 4
Total credits .. .. .	6 0 10½	7 9 8½	8 4 10½	6 1 3	4 14 4½	7 8 6	5 15 3½	2 17 9½	4 6 7½	3 10 9	2 17 3½	2 10 8	3 8 0
Net cost .. .. .	12 14 10½	17 15 1½	20 2 7½	18 2 10½	11 10 3½	18 7 4½	17 0 7½	11 18 7½	17 3 4½	16 1 0½	18 1 2	14 16 3½	18 8 0½
Net { Profit .. .. .	—	19 11 6½	2 19 3	1 16 4½	10 3 2½	—	9 0 3½	19 2	2 12 0½	2 14 6½	5 9 1½	—	7 7 1½
Loss .. .. .	2 8 5½	—	—	—	—	2 7	—	—	—	—	—	1 15 5½	—

\* Vide Appendix C. † Vide Appendix D.

Appendix E.

FIELD COSTS AND RETURNS PER ACRE—continued.

Field Number	102	104	105	106	107	109	110	111	112	113	114	115	116
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Ploughing .. .. .	1 5 2	1 3 11	1 1 4½	1 7 1½	14 4½	18 9½	1 1 6½	19 8	19 5½	19 9	17 0½	1 5 0½	14 7½
Sub-soiling .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Cultivating .. .. .	—	7 2	8 3½	2 1	1 3½	—	—	—	—	—	1 10½	—	—
Steam tackle .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Harrowing .. .. .	8 1½	16 2½	5 8½	1 1 3	3 9	5 10	4 10½	4 10	5 10	5 5½	5 8½	5 9	4 6½
Rolling .. .. .	3 0½	14 2½	10 8½	1 1 1	5 8½	6 3½	3 10	4 7½	5 0½	4 3½	3 7½	4 1½	3 7½
Other work .. .. .	2 11½	2 6½	4 0½	2 7½	—	—	—	—	—	—	—	—	2 8½
Preliminary cultivations ..	1 19 3½	3 4 0½	2 9 10	3 14 2½	1 5 1	1 10 11	1 10 2½	1 9 1½	1 10 4½	1 9 6	1 7 10	1 14 11	1 10 6
Seed .. .. .	8 2	5 3½	5 3½	8 9	8 2	8 2	8 2	8 2	8 2	8 2	8 2	8 2	8 9
Drilling .. .. .	2 4	4 8½	1 8½	2 2½	2 4½	3 2	2 7½	3 3½	3 6½	3 7½	2 1½	2 6½	2 4½
Bunching, singling and hand hoeing .. .. .	2 7 9½	3 2 2½	3 7 8½	1 7 10½	3 13 1½	3 1 2½	2 15 11½	3 0 5½	2 17 3½	2 10 0	2 15 9½	2 15 6½	3 10 0
Horse hoeing .. .. .	5 1½	4 0	6 8½	7 3½	3 0½	8 3½	4 5	6 3	6 8	4 11½	6 11	5 6½	—
Other work .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Seed, drilling and after cultivations .. .. .	3 3 4½	3 16 2½	4 1 4½	2 6 1½	3 6 8½	4 1 3	3 11 2	3 18 2½	3 15 8	3 6 9	3 12 11½	3 11 9½	4 1 1½
Applying manures .. .. .	17 7½	3 7	1 8½	1 4½	3 2½	2 8½	4 6	4 2	1 11½	1 11½	2 9½	3 0½	18 11½
Artificials* .. .. .	2 12 8½	2 10 8	13 1½	19 3½	2 11 0	2 11 0	2 11 0	2 11 0	2 11 0	2 11 0	2 17 9	2 11 0	1 4 6
Dung* .. .. .	4 10 0	—	—	—	—	—	—	—	—	—	—	—	5 5 0
Total manures .. .. .	8 0 3½	2 14 3	14 10	1 0 8	2 14 2½	2 18 8½	2 15 6	2 15 2	2 12 11½	2 12 11½	3 0 6½	2 13 0½	7 8 5½
Lifting .. .. .	15 8	8 2	7 10½	11 8	3 3 0	3 3 0	3 3 0	3 3 0	3 3 0	3 3 0	3 3 0	3 3 0	3 8 11
Pull, top and lumping .. .. .	2 10 0	3 10 0	3 10 0	2 10 0	2 0 0	2 0 0	2 0 0	2 0 0	2 0 0	2 0 0	2 0 0	2 0 0	3 0 0
Loading and haulage† .. .. .	2 0 0	2 2 6½	2 2 7½	2 5 1	2 0 0	2 0 0	2 0 0	2 0 0	2 0 0	2 0 0	2 0 0	2 0 0	1 10 0
Total harvesting .. .. .	5 5 6	6 0 8½	6 0 8	5 6 7	5 3 0	5 3 0	5 3 0	5 3 0	5 3 0	5 3 0	5 3 0	5 3 0	4 18 11
Rent .. .. .	18 3	3 0 0	3 0 0	3 0 0	1 15 0	1 15 0	1 15 0	1 15 0	1 15 0	1 15 0	1 15 0	1 15 0	2 10 0
Rates .. .. .	2 1	13 8½	18 8½	13 9	11 9	11 9	11 9	11 9	11 9	11 9	11 9	11 9	15 4
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads .. .. .	2 0 4	4 13 8½	4 13 8½	4 13 9	3 6 9	3 6 9	3 6 9	3 6 9	3 6 9	3 6 9	3 6 9	3 6 9	4 5 4
Farm cash cost .. .. .	20 8 10½	20 8 11	18 0 3	17 1 4½	16 15 9	16 15 7½	16 6 7½	16 12 2½	16 8 9	15 18 11½	16 11 1½	16 9 5½	22 4 3½
Transport and Grower's Representative .. .. .	2 17 6	3 0 3	3 0 0	1 15 7	1 3 7½	1 3 7½	1 3 7½	1 3 7½	1 3 7½	1 3 7½	1 3 7½	1 3 7½	1 13 2½
Total cash cost .. .. .	23 6 4½	23 9 2	21 0 3	18 18 11½	16 19 4½	17 19 3½	17 10 3½	17 15 10½	17 12 4½	17 2 7½	17 14 9½	17 13 1½	23 17 6½
Gross cash receipts .. .. .	24 15 3	23 13 10½	23 18 9½	16 10 9½	20 18 6½	20 18 6½	20 18 6½	20 18 6½	20 18 6½	20 18 6½	20 18 6½	20 18 6½	26 12 6½
Cash { Profit .. .. .	1 8 10½	5 4 8½	2 18 6½	—	3 19 2	2 19 3½	3 8 3½	3 2 8½	3 6 2	3 15 11½	3 8 9½	3 5 6½	2 15 0½
Loss .. .. .	—	—	—	2 6 1½	—	—	—	—	—	—	—	—	—
Residual values bt. fwd. .. .. .	1 4 0	5 0	7 6	5 0	2 5 0	18 4 3½	18 2 9½	20 0 10½	19 17 4½	19 7 7½	19 4 9½	19 18 1½	24 3 6½
Gross cost .. .. .	24 10 4½	23 14 2	21 7 9	19 1 11½	19 4 4½	18 4 3½	18 2 9½	20 0 10½	19 17 4½	19 7 7½	19 4 9½	19 18 1½	24 3 6½
Resid. Cult. values cd. fwd. ..	3 10	5 0	8 6	5 6	2 3	6 6	3 4	4 8	5 0	3 9	5 8	4 2	7 0
" Man. " " " .. .. .	3 1 8	2 8 9½	2 8 9½	6 5½	17 0	17 0	17 0	17 0	17 0	17 0	1 0 5½	17 0	8 6 4
Topsoil .. .. .	3 0 0	2 9 6	2 9 6	2 0 6	2 5 0	2 5 0	2 5 0	2 5 0	2 5 0	2 5 0	2 5 0	2 5 0	3 11 6
Total credits .. .. .	6 5 6	3 3 3½	3 6 9½	2 12 5½	3 4 3	3 8 6	3 5 4	3 6 8	3 7 0	3 5 9	3 10 8½	3 6 2	7 4 10
Net cost .. .. .	18 4 10½	20 10 10½	18 0 11½	16 9 6	16 0 1½	14 15 9½	14 17 5½	18 14 2½	16 10 4½	16 1 10½	15 14 1	16 11 11½	16 18 8½
Net { Profit .. .. .	6 10 4½	3 8 0	5 17 9½	1 8½	4 18 5	6 2 9½	6 1 1½	4 4 4½	4 8 2	4 16 8½	5 4 5½	4 6 7½	9 13 10½
Loss .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—

76

\* Vide Appendix C. † Vide Appendix D.



Appendix E.

FIELD COSTS AND RETURNS PER ACRE—continued.

Field Number .. .. .	117	118	119	120	121	122	123	124	125	126	127	128	130	
	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	\$ s. d.	
Ploughing .. .. .	14 1½	17 2½	8 0½	15 9½	1 7 0½	2 14 1	1 1 2	1 5 8½	—	2 19 5	—	—	—	
Sub-soiling .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cultivating .. .. .	—	—	—	—	6 10	—	—	—	—	13 2½	—	—	—	
Steam tackle .. .. .	—	—	—	—	—	—	—	—	—	1 6 9½	6 9½	—	—	
Harrowing .. .. .	9 0½	6 1½	5 1½	9 4½	5 6½	7 4½	5 9½	7 0	13 8½	1 15 6	13 1½	13 0½	10 6½	
Rolling .. .. .	7 7½	5 10½	6 0½	8 6	6 5½	6 5½	6 0½	6 1½	10 10½	13 2½	8 1½	9 7½	7 4	
Other work .. .. .	3 9½	3 9	3 2½	4 7½	—	—	—	—	—	—	—	—	—	
Preliminary cultivations ..	1 14 6½	1 12 11½	1 2 5½	1 18 4	2 5 10½	3 7 11	3 14 3½	4 10 2½	4 16 4½	3 18 4½	3 1 6½	3 2 5	4 5 11	
Seed .. .. .	8 9	8 9	8 9	8 9	8 9	8 9	8 9	8 9	8 9	10 10½	10 6	10 6	10 6	
Drilling .. .. .	2 6½	2 5½	1 7½	2 4	2 7	2 7	2 0½	2 5½	2 10	1 1	2 1½	1 11	1 11	
Bunching, singling and hand hoeing .. .. .	} 3 10 0		} 3 10 0		} 3 10 0		} 3 10 0		} 3 6 6		} 3 18 10½		} 1 7 7½	
Horse hoeing .. .. .	} 3 10 0		} 3 10 0		} 3 10 0		} 3 10 0		} 2 8½		} 19 0		} 1 7 7½	
Other work .. .. .	} 3 10 0		} 3 10 0		} 3 10 0		} 3 10 0		} 2 8½		} 19 0		} 1 7 7½	
Seed, drilling and after cultivations .. .. .	4 1 3½	4 1 2½	4 0 4½	4 1 1	4 3 9½	4 3 9½	3 7 6½	4 0 0½	7 1 11½	4 10 7½	5 9 4½	2 16 3	3 5 4	
Applying manures .. .. .	1 1½	1 2½	16 2	1 7½	19 1	2 7	1 0 5½	2 5½	1 3 10½	2 6½	1 9½	19 1	1 6 3	
Artificial* .. .. .	1 4 6	1 4 6	1 5 5	1 4 6	2 9 6	1 4 6	19 2	1 3 3½	3 18 0½	3 4 0	3 14 8	4 4 4½	1 12 7½	
Dung* .. .. .	—	—	3 15 0	—	1 16 2	—	2 12 10	—	14 4 6½	—	—	2 2 4	4 13 0	
Total manures .. .. .	1 5 7½	1 5 8½	5 16 7	1 6 1½	5 4 9	1 7 1	4 12 5½	1 5 8½	19 6 4½	3 6 6½	3 16 5½	7 5 9½	7 12 7½	
Lifting .. .. .	9 1½	9 4½	9 9 6½	9 9 7½	9 9 3	10 2½	9 10½	7 2½	1 0 10½	15 4	17 10½	4 9	—	
Full, top and lumping .. .. .	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 10 0	3 10 0	4 6 1½	5 2 5	
Loading and haulage† .. .. .	1 10 0	1 10 0	1 10 0	1 10 0	1 5 0	1 5 0	1 5 0	1 5 0	1 17 8	1 14 6	2 18 9½	—	—	
Total harvesting .. .. .	4 19 1½	4 19 4½	4 19 6½	4 19 7½	4 14 3	4 15 2½	4 14 10½	4 12 2½	9 5 3	6 19 10	7 6 8	4 9 10½	5 2 5	
Rent .. .. .	2 10 0	2 10 0	2 10 0	2 10 0	2 0 0	2 0 0	2 0 0	2 0 0	1 2 5½	1 10 0	1 10 0	1 10 0	1 10 0	
Rates .. .. .	15 4	15 4	15 4	15 4	15 4	15 4	15 4	15 4	4 8½	4 5½	4 5½	4 6	4 6	
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	
Total overheads .. .. .	4 5 4	4 5 4	4 5 4	4 5 4	3 15 4	3 15 4	3 15 4	3 15 4	2 7 1½	2 14 5½	2 14 5½	2 14 6	2 14 6	
Farm cash cost .. .. .	16 5 11½	16 4 7½	20 4 3½	18 10 6½	20 4 0	17 9 3½	20 4 5½	18 3 6	32 17 1½	20 9 10½	22 8 5½	20 8 10½	23 0 9½	
Transport and Grower's Representative .. .. .	1 13 3	1 13 2½	1 13 3½	1 13 3½	3 18 9½	3 18 8	3 18 10½	3 18 8	2 9 10½	16 5½	1 18 0½	2 7 11½	1 12 5	
Total cash cost .. .. .	17 19 2½	17 17 10½	21 17 6½	18 3 10	24 2 9½	21 7 11½	24 3 4	22 2 2	35 7 0	21 6 4½	24 1 5½	22 16 9½	24 13 2½	
Gross cash receipts .. .. .	26 12 6½	26 12 6½	26 13 6½	26 12 6½	26 12 6½	26 12 6½	26 12 6½	26 12 6½	26 14 0	7 15 3½	18 5 5½	27 16 8½	19 19 5½	
Cash { Profit .. .. .	8 13 4	8 14 8½	4 15 0	8 8 8½	2 9 9	5 4 6½	—	—	—	—	—	4 19 11	—	
Loss .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	4 18 8½	
Residual values bt. fwd. .. .. .	6 0	6 0	1 0 0	6 0	6 0	6 0	6 0	10 0	12 6	5 0	15 0	16 0	16 0	
Gross cost .. .. .	18 5 2½	18 3 10½	23 17 6½	18 9 10	24 8 9½	21 13 11½	24 9 4	22 12 2	35 19 6	21 11 4½	24 16 6½	23 19 9½	25 8 2½	
Resid. Cult. values od. fwd. ..	9 6	8 8	7 6	9 0	10 0	9 0	18 8	1 2 2	18 9	1 11 5	16 3	12 2	18 9	
Man. " " .. .. .	13 10	13 10	2 11 9½	13 10	2 12 9	13 10	1 17 2½	2 13 5½	16 0	18 8	2 5 11	2 11 10½	2 11 10½	
Tops† .. .. .	3 11 8	2 9 6	2 9 6	3 11 6	2 9 6	2 9 6	2 9 6	2 9 6	3 18 0	3 0 0	3 6 0	2 15 0	—	
Total credits .. .. .	4 14 10	3 11 10	5 8 9½	4 14 4	5 12 3	3 12 4	5 5 4½	4 4 9½	7 10 2½	3 9 5	4 14 11	6 4 1	6 5 7½	
Net cost .. .. .	13 10 4½	14 12 0½	17 8 9	13 15 6	18 16 6½	18 1 7½	19 3 11½	18 7 4½	28 9 3½	18 1 11½	20 1 6½	17 8 8½	19 2 6½	
Net { Profit .. .. .	13 2 2	12 0 6½	9 3 9½	12 17 0½	7 16 0	8 10 10½	7 8 7½	8 5 2½	4 8½	—	—	10 8 0	—	
Loss .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	16 10½	

77

\* Vide Appendix C.

† Vide Appendix D.

‡ Includes Sludge.

Appendix E.

FIELD COSTS AND RETURNS PER ACRE—continued.

Field Number	131	132	133	134	135	136	137	139	140	141	142	143	144
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Ploughing .. .. .	1 15 9½	1 13 0	1 13 9½	1 18 10	1 4 3½	1 16 7½	1 7 8½	1 11 5	1 18 11	1 2 11	2 6 7½	2 0 1½	16 8½
Sub-soiling .. .. .	—	9 2	—	—	—	—	—	—	—	—	—	—	—
Cultivating .. .. .	13 6½	—	7 11½	—	3 1	—	—	4 1½	—	1 8½	2 5½	2 7	3 7½
Steam tackle .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Harrowing .. .. .	3 10	7 4	2 2½	1 4	3 3½	5 8½	1 5½	3 10	10 0	4 1½	4 5½	2 5½	3 1
Rolling .. .. .	8 7½	3 1	5 5½	—	2 2½	2 0	2 0½	5 1	5 2	5 8½	5 1	2 5½	2 3½
Other work .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Preliminary cultivations ..	3 1 9½	2 12 7	2 9 5½	1 0 2	1 12 10½	2 3 11	1 11 2½	2 2 5½	2 14 1	1 14 5½	2 18 7½	2 7 7½	1 5 8
Seed .. .. .	7 0	8 9	8 9	8 9	8 9	8 9	8 9	8 9	8 9	8 9	8 9	7 8	5 10
Drilling .. .. .	5 2½	2 6	2 7½	1 6½	1 2	2 0	1 9½	2 4	2 11½	2 2	1 11	1 8	2 3
Bunching, singling and hand hoeing .. .. .	3 2 8	2 19 10½	—	2 10 0	2 10 0	2 10 0	2 10 0	3 2 4½	2 3 8½	1 12 6	1 12 6	1 16 11	2 0 6½
Horse hoeing .. .. .	4 4	3 10	—	11 9	12 5½	19 9½	16 8½	1 0 2½	14 1	16 0½	1 0 7	13 9	11 5
Other work .. .. .	—	—	—	—	—	—	—	—	1 3	—	—	—	—
Seed, drilling and after cultivations .. .. .	3 19 2½	3 14 11½	—	3 12 0½	3 12 4½	4 0 6½	3 16 10	4 13 8½	3 10 9½	2 19 5½	3 3 9	3 0 0	3 0 0½
Applying manures .. .. .	6 2½	1 16 0½	3 9	3 1½	2 3½	6 5	7 9½	—	2 1 6½	—	—	1 0 7½	11
Artificials* .. .. .	3 1 4½	2 15 10½	3 3 4	9 7½	9 7½	9 7½	1 16 8½	—	2 5 10	—	—	1 2 0½	15 6½
Dung† .. .. .	—	3 15 0	—	—	—	—	11 8½	—	3 15 0	—	—	3 17 9	—
Total manures.. .. .	3 7 7	8 6 11	3 7 1	12 8½	11 11	1 3 0½	2 16 2½	—	8 2 4½	—	—	6 0 5	16 5½
Lifting .. .. .	8 2 10½	2 16 7½	—	2 5 0	2 5 0	2 5 0	2 5 0	1 19 0½	2 0 0	2 0 0	2 0 0	9 11	5 3½
Pull, top and lumping .. .. .	3 14 11	1 16 7	—	12 2	13 0½	14 1½	13 9½	2 13 9½	3 7 10½	3 2 7	2 19 3½	1 18 0½	2 0 6½
Loading and haulage‡ .. .. .	11 17 9½	4 13 2½	—	2 17 2	2 18 0½	2 19 1½	2 18 9½	4 12 10	5 7 10½	5 2 7	4 19 3½	4 7 11½	1 1 1
Total harvesting .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	3 6 10½
Rent .. .. .	15 0	10 0	1 0 0	12 11½	12 11½	12 11½	12 11½	1 5 0	1 5 0	1 5 0	1 5 0	1 0 0	1 5 0
Rates .. .. .	—	2 9½	4 0	1 4½	1 4½	1 4½	1 4½	7 3½	7 3½	7 3½	7 3½	3 6	4 2
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads .. .. .	1 15 0	1 12 9½	2 4 0	1 14 4	1 14 4	1 14 4	1 14 4	2 12 3½	2 12 3½	2 12 3½	2 12 3½	2 3 6	2 9 2
Farm cash cost .. .. .	24 1 4½	21 0 5½	—	9 16 5½	10 9 6½	12 0 11½	12 17 4½	14 1 2½	22 7 5	12 8 9½	15 13 11	17 19 6	10 18 2½
Transport and Grower's Representative .. .. .	2 13 8½	4 0 4½	—	1 2 10½	1 14 6½	1 14 10½	1 8 9½	1 14 6½	1 19 7	2 12 1½	2 10 1½	2 5 1½	1 15 1½
Total cash cost .. .. .	26 15 1	25 0 9½	—	10 19 3½	12 4 1	13 15 10½	14 6 1½	15 15 8½	24 7 0	15 0 10½	18 4 0½	20 4 7½	12 13 4
Gross cash receipts .. .. .	25 0 10	21 12 0½	—	6 8 3½	12 6 7½	10 9 2½	9 15 6	17 9 2½	19 14 8	27 9 4½	25 0 11½	24 17 8½	21 19 6½
Cash { Profit .. .. .	—	—	—	—	2 6½	—	—	1 13 4½	—	12 8 5½	6 16 10½	4 13 0½	9 6 2½
Loss .. .. .	1 14 3	3 8 9½	—	4 11 0½	—	3 6 7½	4 10 7½	—	4 12 4	—	—	—	—
Residual values bt. fwd. .. .. .	2 5 0	2 5 0	—	1 12 6	1 2 6	1 12 6	1 2 6	2 0 0	5 0	1 10 0	5 0	1 0 0	1 17 6
Gross cost .. .. .	29 0 1	27 5 9½	—	12 11 9½	13 6 7	15 8 4½	15 8 7½	17 15 9½	24 12 0	16 10 10½	18 9 0½	21 4 7½	14 10 10
Resid. Cult. values cd. fwd. ..	7 3	9 0½	—	8 9	4 7½	14 10½	6 1½	17 2	10 6	12 0	15 5	10 8	8 6
Man. " " .. .. .	13 0½	2 9 3	—	4 9½	2 4	8 3½	7 3	—	2 8 11½	—	—	2 5 4½	7 9
Topes† .. .. .	3 0 6	2 9 6	—	16 6	16 6	16 6	16 6	8 7 6	1 13 0	2 19 6	8 7 6	3 6 0	3 7 6
Total credits .. .. .	4 0 9½	5 7 9½	—	1 10 0½	1 3 5½	1 19 8½	1 9 10½	4 4 8	4 12 5½	3 11 6	4 2 11	6 1 7½	4 3 9
Net cost .. .. .	24 19 3½	21 18 0½	—	11 1 9½	12 3 1½	18 8 8	13 18 9½	13 11 1½	19 19 6½	12 19 4½	14 6 1½	15 3 0½	10 7 1
Net { Profit .. .. .	1 6½	—	—	—	8 5½	—	—	8 18 0½	—	—	—	—	—
Loss .. .. .	—	5 11½	—	4 13 6	—	2 19 5½	4 3 3½	—	4 10½	—	—	—	—

78

\* Vide Appendix C. † Vide Appendix D. ‡ Includes Sludge. § Sewage Treatment.

Appendix E.

FIELD COSTS AND RETURNS PER ACRE—continued.

79

Field Number .. .. .	146	147	148	149	150	151	152	153	154	155	156	158	159†
Ploughing .. .. .	\$ s. d. 1 9 11½	\$ s. d. 1 3 10½	\$ s. d. 1 6 3½	\$ s. d. 14 6½	\$ s. d. 2 0 3	\$ s. d. 14 9½	\$ s. d. 2 15 3½	\$ s. d. 2 4 2½	\$ s. d. 2 6 5½	\$ s. d. 1 8 4	\$ s. d. 2 2 11	\$ s. d. 2 9 3½	\$ s. d. 2 6 11½
Sub-soiling .. .. .	—	10 6	—	—	—	—	—	—	—	—	—	—	—
Cultivating .. .. .	—	15 3½	5 1½	—	—	—	—	—	—	—	—	—	—
Steam tackle .. .. .	—	—	—	1 10 0	—	—	—	—	—	—	—	—	—
Narrowing .. .. .	9 2	16 7½	4 9½	14 0½	18 2½	6 11½	7 11	10 9½	3 2½	2 8	3 5	3 4½	5 4
Rolling .. .. .	4 2½	2 7½	4 10½	2 9 10	5 9	4 9½	6 6	1 11½	3 10½	4 11	5 10	—	5 10
Other work .. .. .	3 0	2 9½	—	3 0½	—	—	—	—	—	—	—	—	—
Preliminary cultivations	2 6 4	3 11 9½	2 1 0½	3 15 2½	3 4 2½	1 6 6½	4 8 10½	3 14 10½	2 15 6½	2 1 0½	3 0 8	2 18 1½	3 5 8½
Seed .. .. .	6 9½	7 11½	8 2	9 9	6 8½	5 10	11 8	11 8	6 5	6 5	7 9½	7 0½	7 5
Drilling .. .. .	2 10½	2 8½	1 5½	2 5½	1 11½	3 3½	3 3	4 3	1 9½	1 8	2 1	1 3	1 9½
Bunching, singling and hand hoeing .. .. .	2 12 2½	2 12 0	—	5 6 3½	2 8 8	1 1 8	1 14 8	2 6 2½	2 8 4	1 13 8½	3 14 3½	2 16 1½	1 14 11
Horse hoeing .. .. .	17 3	6 9½	—	6 11½	9 0½	7 6	5 0	11 8½	5 7½	8 2½	11 2	10 6½	17 11
Other work .. .. .	—	9 0½	—	1 0 8½	2 4	2 5½	—	—	5 0	10 4½	1 1½	—	—
Seed, drilling and after cultivations .. .. .	3 19 1½	3 18 5½	—	7 6 1½	3 8 2½	2 0 9	2 14 7	3 13 10	3 7 1½	2 18 4½	4 16 5½	3 14 11½	2 3 0½
Applying manures .. .. .	7 4	7 2½	1 2 6½	1 2 4½	7 2½	3 8½	—	—	3 1½	1 0 9½	1 10 8½	2 11½	15 8½
Artificials* .. .. .	3 14 7½	4 4 4	2 3 9	4 0 0	—	2 17 4	—	—	3 6 1	2 3 1½	1 6 1½	2 1 2½	2 4 9½
Dung* .. .. .	—	—	2 5 0	3 15 0	1 17 6	—	—	—	2 10 0	5 17 10½	—	—	3 4 3½
Total manures .. .. .	4 1 11½	4 11 6½	5 11 3½	8 17 4½	2 4 8½	3 1 1½	—	—	8 9 2½	5 13 11½	8 14 8½	2 4 1½	5 4 10
Lifting .. .. .	6 2½	14 8½	—	15 0	2 10 0	2 2 6	3 8	2 6 10	11 9½	9 2½	13 7½	10 3½	12 5½
Pull, top and lumping .. .. .	18 3½	1 14 6½	—	3 0 0	—	—	3 7 1	—	2 1 1½	2 5 7½	2 3 11	1 19 4½	2 16 9½
Loading and haulage† .. .. .	1 2 8	1 17 11½	—	3 12 6½	18 9½	4 4 4	1 1 6½	1 3 4	1 8 5½	16 7	1 14 9	18 0	3 8 11½
Total harvesting .. .. .	2 6 1½	4 6 9½	—	7 7 6½	3 8 9½	2 6 10	4 12 3½	3 10 2	4 1 7½	3 11 5½	4 13 3½	8 7 7½	6 18 2½
Rent .. .. .	12 0	8 0	1 5 0	4 0 0	1 11 7	12 6	1 10 0	1 10 0	1 5 0	1 5 0	1 5 0	1 5 0	1 5 0
Rates .. .. .	2 5	1 6	1 3 6	8 6	4 0	1 3	4 1	4 1	4 0	4 0	4 0	4 0	4 0
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads .. .. .	1 14 5	1 9 6	2 8 6	5 8 6	2 15 7	1 13 9	2 14 1	2 14 1	2 9 0	2 9 0	2 9 0	2 9 0	2 9 0
Farm cash cost .. .. .	14 8 0	17 18 0½	—	32 14 9	15 1 11½	10 9 0	14 9 9½	18 12 11½	16 0 6½	16 13 10	23 13 1½	14 13 11	19 14 10
Transport and Grower's Representative .. .. .	14 1½	1 5 6½	—	5 9 10½	5 9 3	2 1 2½	4 3 10	4 3 10	2 8 10½	1 7 5½	2 16 6½	1 12 1½	9 16 8½
Total cash cost .. .. .	15 2 1½	19 3 7	—	38 4 7½	20 11 2½	12 10 2½	18 13 7½	17 16 9½	18 9 5	18 1 3½	26 9 8½	16 6 10½	22 10 6½
Gross cash receipts .. .. .	7 3 2½	14 8 4½	—	87 1 2½	17 7 2½	10 18 3	17 9 3½	17 9 3½	16 19 3½	8 8 8	19 5 6½	14 9 10	16 2 0
Cash {Profit .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Loss .. .. .	7 18 10½	4 16 2½	Crop failed and ploughed up.	1 3 4½	3 4 0½	1 11 11½	1 4 4	7 5½	1 10 1½	9 17 7½	7 4 2½	1 17 0½	6 8 6½
Residual values bt. fwd. .. .. .	5 0	5 0	—	12 6	5 0	2 0 0	5 0	5 0	5 0	2 5 0	5 0	5 0	1 12 0
Gross cost .. .. .	15 7 1½	19 8 7	—	38 17 1½	20 16 2½	14 10 2½	18 18 7½	18 1 9½	18 14 5	20 6 3½	26 14 8½	16 11 10½	24 2 6½
Resid. Cult. values cd. fwd. .. .. .	13 0	16 0	—	1 0 3	6 9	5 7½	16 7	1 1 1	4 8	6 8	11 10½	9 10½	15 6
Man. " " .. .. .	1 3 2	1 6 10½	—	3 4 2	15 9	11 0½	—	—	15 0	2 1 7½	3 2 2½	13 1	2 0 9½
Top† .. .. .	1 0 6	1 17 8	—	3 6 0	2 12 0	1 2 0	2 9 6	2 19 6	1 18 6	1 18 6	1 18 6	1 18 6	1 18 6
Total credits .. .. .	2 16 8	4 0 4½	—	7 10 5	3 17 6	1 18 8½	3 6 1	4 0 7	2 17 9	4 6 9½	5 12 7	3 1 5½	4 14 9½
Net cost .. .. .	12 10 5½	15 8 2½	—	31 6 8½	16 18 8½	12 11 6½	15 12 6½	14 1 2½	16 16 8	16 19 6½	21 2 1½	13 10 5	19 7 8½
Net {Profit .. .. .	—	—	—	5 14 6½	8 5½	—	1 16 9	3 8 1½	1 2 7½	—	—	19 5	—
Loss .. .. .	5 7 2½	19 10½	—	—	—	1 13 3½	—	—	—	7 15 10½	1 16 7½	—	3 5 8½

\* Vide Appendix C. † Vide Appendix D. ‡ Of 11 acres drilled, 8½ acres failed and were ploughed up in June. All costs up to June calculated on 11 acres, after June on 2½ acres.

Appendix E.

FIELD COSTS AND RETURNS PER ACRE—continued.

Field Number	160	161	162	163	164	165	167	168	169	171	172	173	174
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Ploughing .. .. .	2 15 5½	2 11 11½	1 3 1½	2 8 8	16 9½	1 18 0	16 9½	1 1 0½	1 9 0½	3 4 10½	19 8½	1 1 4½	1 6 3½
Sub-soiling .. .. .	—	—	12 1½	14 9½	—	16 4½	14 8	1 1 0½	—	—	—	—	—
Outfitting .. .. .	3 5	6 1½	—	11 0½	—	19 9½	8 9½	10 10½	—	—	11 7½	8 5½	6 2½
Steam tackle .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Harrowing .. .. .	5 3½	2 9	5 8½	13 8½	4 8½	6 9½	3 11	5 0½	18 11½	15 1½	2 2½	4 0½	7 7
Rolling .. .. .	4 1½	6 8½	1 3	6 4½	7 0½	6 1½	4 2	7 0	10 8½	4 1½	3 8	2 10	2 11½
Other work .. .. .	—	—	—	—	—	—	—	—	1 1½	2 0	—	—	—
Preliminary cultivations ..	3 8 3	3 7 7½	2 2 7½	4 14 7½	1 8 7	3 15 1½	2 8 3½	3 4 11	2 19 9	4 6 1½	1 17 6½	1 16 11½	2 3 1
Seed .. .. .	6 5	6 6½	7 10½	8 10½	8 9	8 9	8 2	9 2	8 2	8 2	8 9	8 9½	10 0
Drilling .. .. .	1 3	2 0	1 4	2 1½	2 2	1 8½	2 8½	2 1½	2 11	2 9½	1 5½	3 8½	2 11½
Bunching, singling and hand hoeing .. .. .	4 11 2½	3 7 7½	3 16 2	4 9 8½	3 0 0	2 19 11½	4 2 9½	2 15 11½	4 2 1½	4 11 1	3 0 7	3 14 0	2 13 7
Horse hoeing .. .. .	7 7½	13 11½	4 2½	13 6½	11 3½	10 8	9 1½	6 8½	2 11	3 1½	13 5	15 11½	13 1½
Other work .. .. .	3 11½	—	—	—	—	—	—	1 8½	3 4	1 0	—	—	3 2½
Seed, drilling and after cultivations .. .. .	5 10 6	4 10 1½	4 9 6½	5 14 8	4 2 2½	4 1 1½	5 2 9½	3 16 6½	4 19 5½	5 6 2½	4 4 2½	5 0 0½	4 2 11
Applying manures .. .. .	18 3½	4 3½	18 10½	3 7½	2 4½	3 5½	4 11½	1 3 8½	1 10 5½	17 1½	10 10½	3 3	4 9½
Artificials* .. .. .	1 7 0½	3 14 0½	4 7 11½	2 14 8½	3 11 7½	3 1 1½	3 2 7	2 14 1½	—	—	2 14 6½	3 1 0½	2 15 9½
Dung* .. .. .	5 5 0	—	3 10 5	—	—	—	—	8 8 7	5 2 6	2 10 7½	—	—	—
Total manures .. .. .	7 10 4½	3 18 4½	3 17 2½	2 18 3½	3 14 0½	3 4 7	3 7 6½	10 6 5½	6 12 11½	3 7 8½	4 17 7	3 4 8½	3 0 7½
Lifting .. .. .	13 5½	9 11½	7 9½	11 3½	9 2	9 2	3 4½	2 7 2½	2 13 4	3 0 0	2 10 0	3 8 9½	3 0 0
Pull, top and lumping .. .. .	3 1 2	1 13 11½	3 19 5½	3 13 1½	2 2 3	2 5 6½	2 11 0½	2 3 3	1 12 2½	1 12 2½	2 3 8	1 15 6½	1 9 2½
Loading and haulage† .. .. .	1 1 2½	1 1 2½	14 3½	7 3½	1 13 1½	2 15 0½	1 11 0½	2 3 3	1 14 6½	1 12 2½	2 3 8	1 15 6½	1 9 2½
Total harvesting .. .. .	4 15 9½	3 5 2	5 1 6	4 0 5½	4 7 1½	5 9 8½	3 14 5½	4 10 5½	4 7 10½	4 12 2½	4 13 8	5 14 11	4 9 2½
Rent .. .. .	1 5 0	1 5 0	1 0 0	1 5 0	1 4 0	1 4 0	1 4 0	1 4 0	2 5 0	2 5 0	1 10 0	1 9 9	1 0 0
Rates .. .. .	4 0	4 0	3 3½	5 2½	5 8½	5 8½	5 8½	5 8½	7 5	7 5	5 4	6 0	4 7½
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads .. .. .	2 9 0	2 9 0	2 3 3½	2 10 2½	2 9 8½	2 9 8½	2 9 8½	2 9 8½	3 12 5	3 12 5	2 15 4	2 15 9	2 4 7½
Farm cash cost .. .. .	23 18 11	17 10 3½	22 14 2½	19 17 10	16 1 7½	19 0 2½	17 2 9½	24 7 1	22 12 5½	21 4 7½	18 8 4½	18 11 11½	16 0 5½
Transport and Grower's Representative .. .. .	3 4 2½	1 16 5½	2 5 5½	3 15 3	1 18 9½	2 8 4½	1 16 1½	2 6 5½	1 10 8½	1 7 11	3 8 11½	2 14 3½	4 6 11½
Total cash cost .. .. .	26 18 1½	19 6 9	24 19 8	23 13 1	17 15 8½	21 8 7	18 17 10½	26 13 6½	24 3 2	22 12 6½	21 17 4	21 6 3	20 7 5
Gross cash receipts .. .. .	23 14 5½	11 17 6½	30 9 11	28 10 0½	20 13 10½	29 9 1½	23 0 11½	29 12 8½	17 13 11½	20 5 4½	25 18 3½	26 6 6½	27 17 9½
Cash { Profit .. .. .	—	—	5 10 3	2 16 11½	2 17 5½	8 0 6½	4 8 1	2 19 2½	—	—	4 0 11½	5 0 8½	7 10 4½
Loss .. .. .	3 3 7½	7 9 2½	—	—	—	—	—	—	6 9 2½	2 7 2½	—	—	—
Residual values bt. fwd. .. .. .	5 0	5 0	1 0 0	10 0	10 0	5 0	5 0	16 0	5 0	15 0	2 7 2	1 10 0	5 0
Gross cost .. .. .	27 3 1½	19 11 9	25 19 8	24 3 1	18 5 5½	21 13 7	19 2 10½	27 9 6½	24 8 2	23 7 6½	24 4 6	22 16 8	20 12 5
Resid. Cult. values od. fwd. ..	5 9	12 6	11 3	1 3 7	8 6	1 1 9	16 7	1 2 4	2 3	2 4	13 6	14 9	11 10½
" Man. " " .. .. .	3 0 0	1 0 9	2 16 5½	17 8	6 9	11 7	9 9	3 13 10½	2 11 8	1 5 3½	1 4 6½	15 2½	10 8½
Top† .. .. .	1 18 6	1 18 6	2 4 0	2 4 0	3 7 6	3 7 6	3 7 6	2 19 6	1 18 6	2 12 0	3 15 0	2 19 6	2 15 0
Total credits .. .. .	5 4 3	3 11 9	5 11 8½	4 5 3	4 2 9	5 0 10	4 15 10	7 15 8½	4 12 0	3 19 7½	5 13 0½	4 9 5½	3 17 7
Net cost .. .. .	21 18 10½	16 0 0	20 7 11½	19 17 10	14 2 8½	16 12 9	14 7 0½	19 13 10½	19 16 2	19 7 11	18 11 5½	18 6 9½	16 14 10
Net { Profit .. .. .	1 15 7½	—	10 1 11½	6 12 2½	6 10 2½	12 16 4½	8 13 11	9 18 10½	—	17 5½	7 6 9½	7 19 8½	11 2 11½
Loss .. .. .	—	4 2 5½	—	—	—	—	—	—	2 2 2½	—	—	—	—

80

\* Vide Appendix C. † Vide Appendix D.

Appendix E.

FIELD COSTS AND RETURNS PER ACRE.—*continued.*

18

Field Number .. .. .	175	176	178	179	180	181	182	184	185	186	187	188	189
Ploughing .. .. .	£ s. d. 14 8 ½	£ s. d. 16 2 ½	£ s. d. 1 4 6 ½	£ s. d. 14 0 ½	£ s. d. 1 3 0 ½	£ s. d. 1 14 2 ½	£ s. d. 2 1 5 ½	£ s. d. 19 8	£ s. d. 1 12 7	£ s. d. 19 8	£ s. d. 19 8	£ s. d. 1 3 0	£ s. d. 2 11 0 ½
Sub-soiling .. .. .	—	—	—	—	—	17 1	—	—	—	—	—	—	—
Oultivating .. .. .	—	—	2 9 ½	7 10 ½	3 8	6 4	—	—	—	—	—	—	—
Steam tackle .. .. .	—	—	—	—	—	—	10 3 ½	—	—	—	—	—	—
Harrowing .. .. .	8 11 ½	5 0 ½	1 7 ½	1 9 ½	4 5 ½	6 4 ½	4 3 ½	5 10 ½	13 9 ½	12 9 ½	1 8 0	1 10 ½	19 10 ½
Rolling .. .. .	1 8	4 1 ½	4 7 ½	2 6 ½	5 5	6 1	—	11 8 ½	10 5 ½	11 10 ½	11 7 ½	14 8	18 1 ½
Other work .. .. .	—	—	—	—	—	1 3	—	—	—	—	—	—	—
Preliminary cultivations ..	1 0 2	1 3 4	1 13 6 ½	1 6 3 ½	1 16 4 ½	3 11 3 ½	2 16 3 ½	1 17 0	2 16 10 ½	2 4 3 ½	3 13 11 ½	1 12 7	4 5 0 ½
Seed .. .. .	7 0	6 5	7 8	7 8	7 8	7 7	7 7	8 9	8 9	8 9	8 9	11 8	5 7
Drilling .. .. .	10	9 ½	2 4	2 2 ½	2 3	2 7	3 5 ½	2 4	2 11	3 10 ½	3 1	1 11 ½	3 1 ½
Bunching, singling and hand hoeing .. .. .	1 16 9	1 19 5 ½	1 0 3 ½	2 2 6 ½	1 14 6	1 14 0	2 2 0 ½	2 8 7 ½	1 16 2 ½	2 6 1 ½	1 17 9 ½	1 12 0 ½	2 15 3 ½
Horse hoeing .. .. .	8 4 ½	8 6	—	7 1 ½	7 9 ½	7 9	15 1 ½	11 6	16 1	19 1 ½	—	12 5	11 4
Other work .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—
Seed, drilling and after cultivations .. .. .	2 12 11 ½	2 15 1 ½	3 3 4 ½	3 6 9 ½	2 12 1 ½	2 11 11	3 8 2 ½	3 9 2 ½	3 3 11 ½	3 17 10 ½	3 2 0 ½	3 0 0	3 15 3 ½
Applying manures .. .. .	4 9 ½	5 2	6 9	5 5 ½	5 2 ½	1 5 7	1 19 1 ½	3 10 ½	3 3 ½	4 9 ½	3 3 ½	1 5 6	1 18 6
Artificials* .. .. .	3 0 3 ½	3 1 5 ½	1 2 8 ½	1 2 4	1 2 5	2 7 3	2 8 0 ½	4 5 0	2 7 7	2 7 6	2 7 5	2 5 8 ½	2 1 1
Dung* .. .. .	—	—	—	—	—	13 9 10 ½	3 0 0	—	—	—	—	4 10 0	4 10 0
Total manures .. .. .	3 5 1	3 6 7 ½	1 8 5 ½	1 7 9 ½	1 7 7 ½	7 2 3 ½	7 7 2 ½	4 8 10 ½	2 10 10 ½	2 12 3 ½	2 10 8 ½	8 1 2 ½	8 9 6
Lifting .. .. .	8 11 ½	9 2	1 7 8 ½	3 8 ½	7 7 ½	7 2 ½	13 10 ½	11 0 ½	8 6 ½	10 10 ½	9 11	7 11	14 7
Full, top and lumping .. .. .	3 13 6 ½	3 18 8	1 8 6	1 8 3	1 9 6 ½	2 3 11	3 19 3 ½	2 15 7 ½	2 16 6	2 15 9 ½	2 13 8 ½	2 10 3	2 9 9
Loading and haulage † .. .. .	—	—	1 9 0	1 8 0 ½	1 10 9 ½	1 19 10 ½	3 8 11	1 8 0 ½	1 18 6	2 1 3 ½	1 7 3 ½	15 6 ½	1 8 6 ½
Total harvesting .. .. .	4 2 6	4 7 10	3 5 2 ½	3 4 10	3 7 11 ½	4 10 11 ½	8 2 0 ½	4 14 8 ½	5 3 6 ½	5 7 11 ½	4 10 6 ½	3 13 7 ½	4 12 10 ½
Rent .. .. .	1 10 0	1 10 0	15 8 ½	15 8 ½	15 8 ½	1 10 0	1 10 0	2 0 0	2 0 0	2 0 0	2 0 0	1 4 0	1 4 0
Rates .. .. .	4 0	4 0	4 7 ½	4 7 ½	4 7 ½	5 11 ½	5 11 ½	15 0	15 0	15 0	15 0	5 4	5 4
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads .. .. .	2 14 0	2 14 0	2 0 4 ½	2 0 4 ½	2 0 4 ½	2 15 11 ½	2 15 11 ½	3 15 0	3 15 0	3 15 0	3 15 0	2 9 4	2 9 4
Farm cash cost .. .. .	13 14 8 ½	14 6 11 ½	11 10 11	11 6 0 ½	11 4 5	20 12 10 ½	24 9 8 ½	18 4 9 ½	17 10 3	17 17 5 ½	17 12 2 ½	20 14 9 ½	23 12 0 ½
Transport and Grower's Representative .. .. .	3 1 5	2 12 5 ½	1 3 0 ½	1 3 0 ½	1 3 0 ½	1 1 1 ½	1 9 1 ½	1 13 9	1 13 9	1 13 9	1 13 9	2 4 1	3 8 6 ½
Total cash cost .. .. .	16 16 1 ½	16 19 4 ½	12 13 11 ½	12 9 1 ½	12 7 5 ½	21 14 0 ½	25 18 10 ½	19 18 6 ½	19 4 0	19 11 2 ½	19 5 11 ½	22 18 10 ½	26 16 1
Gross cash receipts .. .. .	23 7 8 ½	20 9 5 ½	12 10 8 ½	12 10 8 ½	12 10 8 ½	16 16 9	20 19 11 ½	18 4 5	18 4 5	18 4 5	18 4 5	18 10 10 ½	22 16 7
Cash { Profit .. .. .	6 11 7	3 10 1	—	1 7 ½	—	3 2 ½	—	—	—	—	—	—	—
Loss .. .. .	—	—	3 3 ½	—	—	4 17 3 ½	4 18 10 ½	1 14 1 ½	19 7	1 6 9 ½	1 1 6 ½	9 8 0 ½	3 19 6
Residual values bt. fwd. ..	7 6	5 0	5 0	10 0	1 0 0	5 0	5 0	15 0	2 5 0	2 5 0	2 5 0	5 0	5 0
Gross cost .. .. .	17 3 7 ½	17 4 4 ½	12 18 11 ½	12 19 1 ½	13 7 5 ½	21 19 0 ½	26 3 10	20 13 6 ½	21 9 0	21 10 2 ½	21 10 11 ½	23 3 10 ½	27 1 1
Resid. Cult. values od. fwd. ..	6 3	6 4 ½	5 3	12 9	5 10	17 1	14 3	8 6 ½	12 0	14 4	18 3	10 9	14 4
Man. " " .. .. .	12 10 ½	12 3 ½	13 0 ½	12 9 ½	12 10 ½	2 9 9	2 4 4 ½	1 6 1	1 6 1	1 6 1	2 13 5 ½	2 13 5 ½	2 15 1 ½
Top† .. .. .	2 12 6	2 5 0	1 4 9	1 9 9	1 4 9	2 9 6	2 9 6	2 18 6	2 18 6	2 18 6	2 18 6	2 4 0	2 4 0
Total credits .. .. .	3 11 7 ½	3 4 1 ½	2 3 0 ½	2 15 3 ½	2 3 5 ½	5 16 4	5 8 1 ½	4 13 1 ½	4 16 7	4 18 11	5 2 10	5 8 2 ½	5 13 6 ½
Net cost .. .. .	13 12 0	14 0 3 ½	10 15 11	10 3 9 ½	11 4 0	16 2 8 ½	20 15 8 ½	16 0 4 ½	16 12 5	16 17 3 ½	16 8 1 ½	17 15 8 ½	21 7 7 ½
Net { Profit .. .. .	9 15 8 ½	6 9 2 ½	1 14 9 ½	2 6 10 ½	1 6 8 ½	14 0 ½	4 3 ½	2 4 0 ½	1 12 0	1 7 1 ½	1 16 3 ½	—	1 8 11 ½
Loss .. .. .	—	—	—	—	—	—	—	—	—	—	—	4 4 10	—

\* Vide Appendix C.

† Vide Appendix D.

‡ Includes Sludge.

Appendix E.

FIELD COSTS AND RETURNS PER ACRE—*continued.*

Field Number .. .. .	190	191	192	193	194	195	196	197	198	199
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Ploughing .. .. .	1 3 4½	1 7 6½	1 3 4½	18 5½	1 3 1½	19 0	18 8	1 11 3½	16 6	15 5½
Sub-soiling .. .. .	—	—	1 2 11½	—	—	9 3½	—	—	—	—
Cultivating .. .. .	4 0 ½	9 11½	6 1	12 4	11 7½	9 1½	7 5½	4 1	5 7½	8 6½
Steam tackle .. .. .	—	—	—	—	—	—	—	—	—	—
Harrowing .. .. .	—	1 8½	5 9½	3 9	8 1½	5 10½	5 9½	5 5½	6 10½	5 0½
Rolling .. .. .	6 11½	7 3	9 5½	5 9½	8 10½	8 7½	5 5	6 2½	10 1½	5 4½
Other work .. .. .	1 3	1 11½	—	—	—	—	—	—	—	1 9½
Preliminary cultivations ..	1 15 7½	2 8 5½	3 7 8	2 0 3½	2 6 8½	2 6 11½	1 17 8½	2 7 0½	1 19 1½	1 16 3
Seed .. .. .	8 2	7 3½	11 8	11 8	10 6	11 8	8 2	10 6	10 6	11 8
Drilling .. .. .	1 6½	2 6	1 4½	1 3	1 6½	1 6½	3 5	4 4½	5 10	1 7½
Bunching, singling and hand hoeing .. .. .	2 12 0	2 0 0	2 5 10½	2 1 2	1 13 8	1 13 11½	2 8 9	2 13 5	2 19 8	4 14 6
Horse hoeing .. .. .	13 10½	16 0 ½	12 2½	9 10	8 2½	7 11½	13 6½	11 9½	7 9½	9 1
Other work .. .. .	2 3	—	—	—	—	—	—	—	—	—
Seed, drilling and after cultivations .. .. .	3 17 10	3 5 10½	3 11 1½	3 3 11	2 13 11½	2 15 1½	3 13 10½	4 0 0½	4 3 9½	5 16 10½
Applying manures .. .. .	1 6½	2 2	5 4 2	2 8½	5 8 3	3 8	1 4 11	1 14 8½	1 6 6	1 2½
Artificials* .. .. .	1 1 10½	16 2½	5 6 6½	5 12 11	5 2 10½	4 18 9½	2 7 6	17 0	17 0	1 4 7
Dung* .. .. .	—	—	—	—	—	—	5 10 6½	3 15 0	3 0 0	—
Total manures .. .. .	1 3 5	18 4½	5 10 8½	5 15 7½	5 6 1½	5 2 5½	9 2 11½	6 6 8½	5 3 6	1 5 9½
Lifting .. .. .	8 2½	?	?	?	?	?	12 9	8 5½	12 10	11 8½
Full, top and laming .. .. .	2 5 0	?	?	?	?	?	2 11 7½	4 13 8	3 17 6½	4 0 0
Loading and haulage† .. .. .	1 6 0½	?	?	?	?	?	2 5 4½	1 4 11½	1 10 6	1 14 10½
Total harvesting .. .. .	3 19 3	?	?	?	?	?	5 9 9½	6 7 1½	6 0 10½	6 6 7
Rent .. .. .	2 0 0	2 0 0	1 10 0	1 10 0	1 10 0	1 10 0	1 5 6	1 10 0	1 10 0	4 0 0
Rates .. .. .	12 6	12 6	5 0	5 0	5 0	5 0	4 10	3 4½	3 4½	8 6
Establishment .. .. .	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0	1 0 0
Total overheads .. .. .	3 12 6	3 12 6	2 15 0	2 15 0	2 15 0	2 15 0	2 10 4	2 13 4½	2 13 4½	5 8 6
Farm cash cost .. .. .	14 8 7½	?	?	?	?	?	22 14 2½	21 14 3½	20 0 8½	20 14 0½
Transport and Grower's Representative .. .. .	2 7 11	Costs incomplete					1 16 1½	1 17 6	1 17 6	1 10 6½
Total cash cost .. .. .	16 16 6½						24 10 4½	23 11 9½	21 18 2½	22 4 6½
Gross cash receipts .. .. .	27 10 4	Costs incomplete					26 12 1½	15 10 5½	15 10 5½	23 18 7½
Cash { Profit .. .. .	10 13 9½						2 1 9½	—	—	1 14 1½
Cash { Loss .. .. .	—	—	—	—	—					
Residual values bt. fwd. .. .. .	2 5 0	Costs incomplete					5 0	5 0	5 0	5 0
Gross cost .. .. .	19 1 6½						24 15 4½	23 16 9½	22 3 2½	22 9 6½
Resid. Cult. values cd. fwd. ..	12 4½	Costs incomplete					12 1½	8 9½	7 10½	10 3½
Man. " " .. .. .	10 2½						3 5 11½	2 1 9	1 14 3	—
Tops† .. .. .	2 14 0	Costs incomplete					2 2 9	3 0 0	3 0 0	3 17 0
Total credits .. .. .	3 16 6½						6 0 10	5 10 6½	5 2 1½	4 7 3½
Net cost .. .. .	15 5 0	Costs incomplete					18 14 6½	18 6 3	17 1 1½	18 2 3
Net { Profit .. .. .	12 5 4						7 17 7½	—	—	5 16 4½
Net { Loss .. .. .	—	—	2 15 9½	1 10 7½	—					

\* Vide Appendix C. † Vide Appendix D.

**APPENDIX F.**  
**FIELD COSTS AND RETURNS PER WASHED TON.**

Field Number	1	2	3	4	5	6	7	8	9	10	12	13	14	15	16
Preliminary cultivations ..	12 7½	8 2	5 7	6 1	7 1½	7 7½	3 5	14 4½	10 8½	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Seed, drilling and after cultivations	10 4	7 2½	7 1½	8 9½	9 2½	10 7	5 2½	5 5½	7 9½	6 0½	6 0½	7 5	7 8	4 9	17 1½
Manures .. .. .	8 1	8 6½	11 0½	19 2	1 1 1½	7 10½	4 6½	—	—	5 9	9 1½	7 10½	1 1 5	8 1½	17 7
Harvesting .. .. .	14 7	7 6½	7 7½	7 10½	0 1½	8 4½	7 6½	8 9½	7 11	4 9½	9 1½	7 10½	1 1 5	17 4½	1 9 5½
Overheads .. .. .	7 2½	5 1½	5 1½	5 1½	5 1½	5 1½	5 1½	6 2½	6 2	8 3½	14 1	11 3½	10 8	15 7½	10 8
Farm cash cost .. .. .	2 12 10	1 17 5½	1 18 1½	2 7 10½	2 11 2½	2 0 4½	1 5 8½	1 14 9½	1 12 7	1 9 11	5 0	6 8	6 7½	8 10½	7 4½
Transport and Grower's rep'tative	4 1	3 11½	3 11½	3 11½	3 11½	3 11½	3 11½	3 6½	3 7½	3 5½	6 11½	5 10½	4 7½	5 0½	5 8
Total cash cost .. .. .	2 16 11	2 1 5½	2 2 1	2 11 9½	2 16 2	2 4 4½	1 9 7½	1 18 4	1 16 2½	1 13 4½	2 9 11	2 1 1½	3 16 5½	2 9 10½	4 14 8
Gross cash receipts .. .. .	2 16 1½	2 17 6½	2 17 6½	2 17 6½	2 17 6½	2 17 6½	2 17 6½	2 17 8½	2 11 10	2 19 4½	2 18 5	2 18 8½	2 18 10½	2 18 4	2 14 2½
Cash {Profit .. .. .	—	16 1	15 5½	5 8½	2 4½	13 2	1 7 10½	19 4½	15 7½	1 6 0	2 18 5	2 18 8½	2 18 10½	2 18 4	2 14 2½
{Loss .. .. .	9½	—	—	—	—	—	—	—	—	—	6 6	16 7	—	—	2 0 0½
Resid. Vals. bt. fwd. .. .. .	2 5½	3 1½	1 3½	7½	1 3½	3 1½	5 2½	3 5	1 8 5	1 1 ½	7½	1 6½	10 2	5 11½	1 1½
Gross cost .. .. .	2 19 4½	2 4 6½	2 8 4½	2 12 5½	2 16 5½	2 7 5½	1 14 10½	2 1 9	1 19 7½	1 14 6	2 10 6½	2 1 8½	4 5 7½	2 16 9½	4 15 4½
Total credits .. .. .	17 9	15 7½	11 10	13 11½	16 3½	13 9	7 10½	10 10½	9 2½	13 8½	13 0½	13 0½	13 1½	18 5½	19 6½
Net cost .. .. .	2 1 7½	1 8 11	1 11 6½	1 18 5½	2 0 2½	1 18 5½	1 7 0	1 11 4	1 8 8½	1 5 3½	1 16 10½	1 8 8	8 12 6½	2 2 4½	8 15 10
Net {Profit .. .. .	14 6½	1 8 7½	1 5 11½	19 0½	17 4	1 8 9½	1 10 6½	1 6 4½	1 8 1½	1 14 0½	19 6½	1 8 0½	—	18 11½	1 1 7½
{Loss .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	18 7½	—	—

83

Field Number	17	18	22	23	24	25	26	27	28	29	30	31	32	33	34
Preliminary cultivations ..	9 6	6 0	6 10½	5 5½	4 4	4 5½	4 9½	4 5	7 6½	3 4½	2 11½	3 10½	15 5½	6 10½	4 5½
Seed, drilling and after cultivations	9 8½	6 3½	10 0	7 4½	8 3½	11 9	5 5½	6 2½	7 11½	7 6	6 7½	9 5½	2 2 9½	12 2	7 10½
Manures .. .. .	1 7 3	1 1 8½	3 9½	6 4½	10 3½	10 2½	17 6½	7 3½	16 9	6 6½	5 10½	1 3 11	1 2 0½	5 0½	1 0 0½
Harvesting .. .. .	10 10½	8 4½	10 10½	18 7½	14 9	12 7½	7 8	8 2½	9 3½	11 10	11 10	18 11	1 10 8½	19 3½	12 1½
Overheads .. .. .	7 4	5 5	3 10	3 10	3 10	3 10	4 1½	4 2	6 4½	6 10½	5 8½	8 3½	13 3½	7 2½	5 0½
Farm cash cost .. .. .	3 4 8½	2 7 9½	1 15 4½	1 16 9	2 1 5½	2 2 10½	1 19 7	1 10 8½	2 7 10½	1 16 1½	1 13 1	3 4 5½	6 4	2 10 7	2 9 6
Transport and Grower's rep'tative	7 5½	7 6	4 11½	4 11½	4 11½	4 11½	7 7½	6 8½	8 2½	6 11½	7 11	7 3½	8 11½	7 4½	3 4
Total cash cost .. .. .	3 12 1½	2 15 3½	2 0 4½	2 1 8½	2 6 5½	2 7 9½	2 7 2½	1 17 0	2 16 1½	2 3 1½	2 1 0	3 11 9½	6 13 2½	2 17 11½	2 12 10
Gross cash receipts .. .. .	3 0 4	3 0 2½	2 14 2½	2 14 2½	2 14 2½	2 14 2½	2 14 7½	2 18 1½	2 16 7½	2 17 1½	2 17 10½	2 18 7½	2 15 9½	2 12 9½	2 13 10½
Cash {Profit .. .. .	—	4 10½	13 10½	12 6½	6 5	7 4½	1 1 1½	6	—	14 0	—	13 2	8 17 5	5 2	1 0½
{Loss .. .. .	11 9½	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Resid. Vals. bt. fwd. .. .. .	1 0½	9½	2 0 9½	2 8 10½	1 8½	10½	7 5½	7	2 0	2 1 6½	1 2½	1 2½	1 6½	8 4	8 9½
Gross cost .. .. .	3 15 2½	2 16 0½	2 8 9½	2 8 7	2 8 2	2 8 9½	2 7 8½	1 17 5½	2 16 8½	2 5 1½	2 1 6½	3 12 11½	6 14 8½	3 6 3½	2 16 7½
Total credits .. .. .	1 0 2	16 9	7 1	10 3	9 2½	9 7½	11 8	6 11	11 10½	10 4	11 6½	1 0 3½	1 8 4	13 5	15 10
Net cost .. .. .	2 13 0½	1 19 3½	1 18 8½	1 15 4	1 18 11½	1 19 1	1 16 0½	1 10 6½	2 4 10	1 14 9½	1 9 11½	2 12 8	5 6 4½	2 12 10½	2 0 9½
Net {Profit .. .. .	7 3½	1 0 10½	1 0 6½	18 10½	15 8½	15 1½	18 7	1 7 7	11 9½	1 2 4	1 7 10½	5 11½	—	—	18 1½
{Loss .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	2 10 7½	1	—

Appendix F.

FIELD COSTS AND RETURNS PER WASHED TON—continued.

Field Number	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Preliminary cultivations .. ..	£ s. d. 4 11½	£ s. d. 8 9	£ s. d. 5 6½	£ s. d. 6 7½	£ s. d. 6 2½	£ s. d. 14 4	£ s. d. 16 2½	£ s. d. 3 0½	£ s. d. 10 6½	£ s. d. 5 7½	£ s. d. 6 9	£ s. d. 7 11½	£ s. d. 7 1½	£ s. d. 4 8½	£ s. d. 7 11
Seed, drilling and after cultivations	7 2½	9 1½	7 4	11 0½	19 2½	8 7½	16 10½	7 4½	10 1	7 9½	8 2	7 7½	12 5½	9 0½	5 11½
Manures .. ..	1 5 7½	1 3 6½	1 0 4½	4 11½	1 6 9½	1 11 1½	1 8 0½	7 5	8 10½	8 1	1 3 10½	7 5	10 10½	11 6½	15 2½
Harvesting .. ..	17 8½	10 3½	10 8½	16 5	18 1½	18 9½	12 4½	9 9½	8 10½	12 6	14 2½	12 6½	12 6½	12 6½	9 11
Overheads .. ..	6 6	5 7	5 11½	7 7½	13 5	9 7½	10 9½	6 0½	8 2½	6 2	7 4	8 2	8 2½	8 2½	8 5½
Farm cash cost .. ..	3 2 0½	2 17 2½	2 10 0	2 6 9	4 3 8½	4 2 6½	4 4 3	1 13 8½	2 6 7½	2 0 2½	3 1 5½	3 3 9	2 11 2½	2 6 0½	2 7 5½
Transport and Grower's rep'n'tative	8 1	4 7	7 3½	9 0½	8 4	9 4½	8 4½	2 5	5 9	5 8½	5 10½	8 8	8 8	8 8	4 10
Total cash cost .. ..	3 10 1½	3 1 8½	2 17 3½	2 15 9½	4 12 0½	4 11 10½	4 12 7½	1 16 1½	2 12 4½	2 5 10½	3 7 2	2 12 5	2 19 10½	2 14 8½	2 12 3½
Gross cash receipts .. ..	2 16 11½	2 16 11½	2 18 10½	2 14 6½	2 16 11½	2 16 10½	2 17 5½	2 11 2½	2 13 9½	2 14 5	2 16 1½	2 16 9½	2 16 9	2 16 9	2 14 9
Cash {Profit .. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
{Loss .. ..	13 2	4 9½	4½	1 3	1 15 1½	1 15 0½	1 15 2½	15 1	1 5½	8 6½	—	—	—	2 0½	2 5½
Resid. Vals. bt. fwd. .. ..	2 9	7	6½	5 7	9 3½	1 2½	1 0½	1 7½	8½	1 8½	1 11	1 11	1 11	1 11	8½
Gross cost .. ..	3 12 10½	3 2 4½	2 17 10	3 1 4½	5 1 3½	4 13 1½	4 13 8½	1 17 9½	2 13 1½	2 7 7	3 7 10½	2 13 6½	3 0 11½	2 15 9½	2 13 0
Total credits .. ..	18 2½	15 11	17 2	10 8	13 1½	1 3 3½	1 3 1	12 1½	16 3½	14 9	19 8½	9 6½	9 11	10 0½	12 5½
Net cost .. ..	2 14 8½	2 6 5½	2 0 8	2 11 1½	4 8 2½	3 9 10½	3 10 7½	1 5 7½	1 16 9½	1 12 10	2 8 1½	2 4 0	2 11 0½	2 5 0	2 0 6½
Net {Profit .. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
{Loss .. ..	2 3½	10 6½	16 2½	3 5	1 11 3	13 0	13 2½	1 5 7	17 0	1 1 7	8 0	12 9½	5 8½	11 0	14 2½

84

Field Number	50	51	52	53	55	56	57	59	61	62	63	64	65	66	67
Preliminary cultivations .. ..	£ s. d. 8 11	£ s. d. 1 14 10	£ s. d. 1 4 2	£ s. d. 8 6	£ s. d. 10 0½	£ s. d. 9 10½	£ s. d. 10 4½	£ s. d. 3 8	£ s. d. 4 7½	£ s. d. 7 11½	£ s. d. 4 4½	£ s. d. 3 7½	£ s. d. 5 10½	£ s. d. 5 7½	£ s. d. 6 2½
Seed, drilling and after cultivations	10 6	1 1 9½	1 12 11½	10 3½	11 10½	10 0½	11 3½	11 5½	4 11	10 0½	9 9½	8 4½	12 5	12 3	15 6
Manures .. ..	11 8½	19 2½	1 7½	18 4	14 0½	16 2½	9 1½	8 3	12 3½	9 0½	10 2	13 11½	9 1½	9 7½	1 12 11½
Harvesting .. ..	13 7	2 0 0½	1 14 1½	12 8½	11 3½	14 11	11 1½	16 6½	13 6½	19 6½	14 5½	1 3 0	15 3	1 1 11½	1 2 7
Overheads .. ..	7 7½	10 5½	11 5½	5 10½	8 1	8 1	8 7	4 0½	5 4	5 1½	6 7½	6 7½	6 3½	5 9	5 2½
Farm cash cost .. ..	2 12 4½	6 6 4	5 4 4	2 15 8	2 15 3½	2 19 1½	2 10 0½	2 8 6½	1 19 4½	2 11 11½	2 3 11½	2 15 6½	2 8 11½	2 15 2½	4 2 5½
Transport and Grower's rep'n'tative	4 9½	10 10½	17 8½	9 6½	5 2½	5 2½	5 2½	6 7½	5 5½	5 6½	5 1½	5 8½	5 1½	5 6½	8 0½
Total cash cost .. ..	2 17 2½	6 17 2½	6 2 0½	3 5 2½	3 0 6½	3 4 4	2 15 3	2 15 2½	2 4 10½	2 17 6	2 9 1	3 1 3½	2 14 1	3 0 9½	4 10 6
Gross cash receipts .. ..	2 17 11½	2 11 2	2 14 6½	2 15 10½	2 16 3½	2 16 3½	2 16 1½	2 16 1½	2 16 4½	2 17 2½	2 18 6½	2 15 5½	2 19 11½	2 15 11½	2 15 10½
Cash {Profit .. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
{Loss .. ..	9	4 6 0½	3 7 6	9 3½	4 8	8 0½	1 0½	11	11 6	3½	5 9½	5 9½	5 10½	4 9½	1 14 7½
Resid. Vals. bt. fwd. .. ..	8	9 0½	6 4½	7 9½	7½	7½	2 7	4 10½	5	6½	1 0½	4 0	1 3½	10½	11½
Gross cost .. ..	2 17 10½	7 6 2½	6 8 5	3 12 11½	3 1 2½	3 4 11½	2 17 10	3 0 1	2 5 3½	2 18 0½	2 10 1½	3 5 4	2 15 4½	3 1 7½	4 11 5½
Total credits .. ..	12 0½	1 3 1½	10 7	14 7½	14 1½	15 2½	11 3	9 8½	9 8½	8 1	9 1½	10 1	9 5½	10 9½	1 1 9½
Net cost .. ..	2 5 9½	6 3 0½	5 17 10	2 18 4	2 7 1	2 9 9	2 6 7	2 10 4½	1 15 11½	2 9 11½	2 1 0	2 15 3	2 5 10½	2 10 10½	3 9 8½
Net {Profit .. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
{Loss .. ..	12 1½	3 11 10½	3 8 3½	2 5½	9 2½	6 6½	9 8½	5 9	1 0 4½	7 3½	17 6½	—	14 0½	5 1½	13 10



Appendix F.

FIELD COSTS AND RETURNS PER WASHED TON—continued.

Field Number	68	69	70	71	72	73	74	75	76	77	78	82	83	84	85
Preliminary cultivations . . . . .	\$ 4 7½	\$ 2 10	\$ 13 1½	\$ 7 8	\$ 10 0½	\$ 4 11½	\$ 3 9½	\$ 5 10½	\$ 4	\$ 7 0½	\$ 6 6½	\$ 3 8½	\$ 7 6½	\$ 8 5½	\$ 10 8½
Seed, drilling and after cultivations	13 7	7 10½	9 7	7 8½	11 1	10 3	9 10	9 1½	8 10½	9 6½	12 10½	6 1	10 8½	8 1½	10 8½
Manures . . . . .	9 5½	14 8½	1 11 6½	18 4½	12 11½	16 1½	3 8½	3 10½	8 6½	11 2½	1 9 7½	4 0½	1 0 8½	3 1½	18 9½
Harvesting . . . . .	16 11½	12 3½	1 1 10½	14 7½	14 6½	9 6½	18 1	13 3½	14 0	14 9½	9 2½	17 1	12 4	5 3½	11 4½
Overheads . . . . .	8 9	7 11½	5 6½	3 5	6 1½	6 1½	6 1½	8 4½	5 5½	3 6½	7 1	8 9½	5 10½	5 7½	6 4½
Farm cash cost . . . . .	2 13 3½	2 5 2½	4 1 8½	2 11 9½	2 14 9½	2 6 11	2 1 6½	2 0 6	2 5 2	2 6 1½	2 18 8½	1 10 8½	2 16 10½	1 10 10½	2 8 7
Transport and Grower's rep'n'tative	5 8½	5 9½	5 9½	5 1	5 8½	5 8½	5 8½	3 8½	4 8½	8 5½	8 1½	2 6½	6 4½	5 10½	5 10½
Total cash cost . . . . .	2 19 0½	2 10 11½	4 7 5½	2 16 10½	3 0 5½	2 12 7½	2 7 3	2 4 2½	2 9 10½	2 14 6½	3 6 5	2 2 3	3 3 3½	1 16 9½	2 14 5½
Gross cash receipts . . . . .	2 16 10½	2 19 9½	2 14 7½	2 15 0	2 18 2½	2 18 9½	2 18 2½	2 5 8½	2 18 3	2 17 8½	2 14 8½	2 11 6	2 14 0	2 15 6½	2 17 9½
Cash {Profit . . . . .	—	8 9½	—	—	—	5 7	—	—	—	8 1½	—	—	—	—	—
{Loss . . . . .	2 1½	—	1 12 10½	1 10½	2 3½	—	—	—	—	—	11 8½	—	—	—	—
Resid. Vals. bt. fwd. . . . .	1 1	5 8½	1 6½	11½	1 9½	2 13 2	2 8	2 5 9½	2 10 6½	7	8 3½	1 10½	3 8 7½	1 1 2½	4 6½
Gross cost . . . . .	3 0 1½	2 16 8½	4 9 0	2 17 10	3 2 9½	2 13 2	2 9 6	2 0 3½	2 10 5½	2 15 1½	3 9 8½	2 4 1½	3 8 10½	1 18 0	2 19 0½
Total credits . . . . .	12 7½	12 6	1 4 8½	16 11½	15 1½	14 8½	10 1	11 6½	11 10½	11 5½	1 3 4	6 6½	12 8½	1 8 9½	17 8½
Net cost . . . . .	2 7 6	2 4 2½	3 4 8½	2 0 10½	2 7 2	1 18 10½	1 19 5	1 18 0	1 18 6½	2 3 8	2 6 4½	1 17 7	2 11 1½	1 9 2½	2 1 4½
Net {Profit . . . . .	9 4½	15 6½	—	14 1½	11 0½	19 4	18 9½	7 8½	19 7½	14 0½	8 8½	19 11	2 10½	1 6 4½	16 5
{Loss . . . . .	—	—	10 1½	—	—	—	—	—	—	—	—	—	—	—	—

85

Field Number	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Preliminary cultivations . . . . .	\$ 7 10	\$ 9 6½	\$ 13 4½	\$ 13 8	\$ 6 3½	\$ 9 8½	\$ 8 3½	\$ 8 2½	\$ 9 6½	\$ 4 7½	\$ 7 8½	\$ 9 11½	\$ 8 8½	\$ 6 1	\$ 9 10½
Seed, drilling and after cultivations	7 9½	10 6½	15 6½	14 2½	7 6	11 5	8 11½	7 10½	10 0½	7 6½	10 5½	8 5½	11 7½	7 11½	10 9½
Manures . . . . .	9 11½	18 10½	19 4	1 18 4½	15 7	1 4 11½	1 4 10	4 8	1 7 5½	11 2	—	15 11½	9 1½	5 1	12 9½
Harvesting . . . . .	11 11	11 3	15 11½	11 6	6 9	10 9	11 8	10 7½	11 11½	11 3½	1 3 8½	15 0	18 11	7 11½	1 3 11½
Overheads . . . . .	6 3½	6 4½	10 4½	11 11½	4 1½	6 8½	7 7½	6 9	8 0½	6 11½	13 9½	4 6½	7 7½	13 7½	9 2
Farm cash cost . . . . .	2 3 9	2 16 7	3 14 7	4 9 8½	2 0 3	3 3 7½	3 1 9½	1 18 2	3 7 0	2 1 7½	2 15 8½	2 13 8½	2 11 0½	2 0 8½	3 6 7½
Transport and Grower's rep'n'tative	5 7½	5 10½	9 5½	2 7½	5 1	5 7½	3 4½	3 9½	6 7½	5 2	4 3½	6 6½	7 5½	4 5½	6 9½
Total cash cost . . . . .	2 9 4½	3 2 5½	4 4 0½	4 12 4	2 5 4	3 5 2½	3 5 2½	2 1 11½	3 13 7½	2 6 9½	3 0 0	3 0 0	2 18 6½	2 5 5	3 13 4½
Gross cash receipts . . . . .	2 15 1½	2 15 11½	2 18 0½	2 12 1½	2 16 10½	2 17 9½	2 14 11½	2 16 11½	2 16 11½	2 14 1½	2 13 11½	2 15 10	2 19 1½	2 13 4½	2 19 5½
Cash {Profit . . . . .	5 9½	—	—	—	11 6½	—	—	15 0	—	7 4	—	—	—	8 2½	—
{Loss . . . . .	—	6 6½	1 6 0	2 0 2½	—	11 5½	10 2½	—	16 7½	—	6 0½	4 2	—	—	14 1½
Resid. Vals. bt. fwd. . . . .	3 4½	3 4½	5 6	2 6½	5 5½	1 9	3 1 4½	2 7½	7 0½	8	2 1	3 1 8½	3 1 8	8½	5 5½
Gross cost . . . . .	2 12 8½	3 5 10½	4 9 6½	4 14 10½	2 5 9½	3 10 11½	3 6 7	2 2 7½	4 0 7½	2 7 8½	3 2 1	3 0 8½	3 1 8	2 5 10½	3 18 10½
Total credits . . . . .	15 11½	12 4	16 4	1 10 6½	18 6½	1 0 5½	16 8	12 4½	1 3 2½	11 10	12 1½	12 2½	11 1½	8 3	11 6
Net cost . . . . .	1 16 9½	2 13 6½	3 13 2½	3 4 4	1 12 2½	2 10 5½	2 9 11	1 10 2½	2 17 5½	1 15 5½	2 9 11½	2 8 6½	2 10 6½	1 17 7½	3 7 4½
Net {Profit . . . . .	18 4½	2 5½	15 2	12 2½	1 4 8	7 4	5 0½	1 6 8½	—	18 8	4 0	7 4½	8 7½	15 9	—
{Loss . . . . .	—	—	—	—	—	—	—	—	5½	—	—	—	—	—	8 0½



Appendix F.

FIELD COSTS AND RETURNS PER WASHED TON—continued.

Field Number	185	186	187	189	140	141	142	143	144	146	147	149	150	151	153
Preliminary cultivations .. .. .	\$ 7 8½	\$ 11 7½	\$ 9 1½	\$ 5 6½	\$ 7 3	\$ 3 1½	\$ 5 3½	\$ 5 5½	\$ 5 5	\$ 18 0½	\$ 14 5½	\$ 5 9½	\$ 10 7½	\$ 6 1½	\$ 14 3½
Seed, drilling and after cultivations	16 11½	1 1 4½	1 2 6½	12 2½	9 6	5 4½	6 3	6 10½	7 11½	1 10 9½	15 10	11 8½	11 4½	10 5½	8 9½
Manures .. .. .	2 9½	6 1½	18 4½	—	1 1 9½	—	3 11	13 8½	2 2½	1 11 10½	18 5½	13 8½	7 4½	16 0½	—
Harvesting .. .. .	13 7½	15 8	17 1½	12 1	14 6½	9 3½	9 3½	10 0½	8 10½	17 11½	17 6½	11 5	11 4½	12 3½	14 10½
Overheads .. .. .	8 0½	9 1½	10 0½	6 9½	7 0	4 8½	5 1½	4 11½	6 6½	13 4½	5 11½	8 4½	9 3½	8 10½	8 8½
Farm cash cost .. .. .	2 9 1	3 8 10½	8 15 1½	1 16 7½	8 0 0	1 2 6½	1 10 9	2 1 0½	1 9 0½	5 13 0	3 19 3	2 10 8	2 9 11½	2 14 11½	2 9 6 8½
Transport and Grower's rep'n'tative	8 1	9 2½	8 4½	4 6	5 3½	4 8½	4 11	5 1½	4 8	5 5½	5 1½	8 6	18 1	10 10	18 6½
Total cash cost .. .. .	2 17 2	8 13 1	4 3 6	2 1 1½	8 5 3½	1 7 3	1 15 3	2 6 2	1 13 3½	5 17 5½	8 17 4½	2 19 2	3 8 0½	3 5 9½	3 0 2½
Gross cash receipts .. .. .	2 17 9½	2 15 5½	2 17 0½	2 5 5½	2 12 1½	2 9 9½	2 9 1½	2 16 9½	2 18 5½	2 15 8	2 18 2½	2 17 4½	2 17 5½	2 17 4½	2 16 3½
Cash { Profit .. .. .	7½	—	—	4 4	—	1 2 6½	13 5½	—	—	—	—	—	—	—	—
{ Loss .. .. .	—	17 7½	1 6 5½	—	12 4	—	—	—	—	3 1 9½	19 2½	1 9½	10 7	8 4½	3 10½
Resid. Vals. bt. fwd. .. .. .	5 3½	8 8½	6 6½	5 9	8	2 8½	1 16 5½	2 9 3½	4 11½	5 1 1½	10½	11½	9½	10 6½	9½
Gross cost .. .. .	3 2 5½	4 1 9½	4 10 0½	2 6 3½	8 5 11½	1 9 11½	1 16 3	2 8 5½	1 18 8	5 19 5	3 18 3½	3 0 1½	3 8 10½	3 16 3½	3 1 0
Total credits .. .. .	5 6	10 6½	8 8½	11 0½	12 4½	6 5½	8 2	13 10½	11 1½	1 2 1½	16 1½	11 7½	12 10	10 9	10 7½
Net cost .. .. .	2 16 11½	8 11 3½	4 1 4	1 15 3	2 13 6½	1 3 8½	1 7 11½	1 14 6½	1 7 6½	4 17 3½	8 9 2	2 8 5½	2 16 0½	3 6 1½	2 10 4½
Net { Profit .. .. .	10	—	—	10 2½	—	1 6 8½	1 1 2	1 2 2½	1 10 11½	—	—	—	—	—	—
{ Loss .. .. .	—	15 10	1 4 3½	—	7½	—	—	—	—	2 1 7½	3 11½	8 10½	1 5½	8 9	5 11½

63

Field Number	153	154	155	156	158	159	160	161	162	163	164	165	167	168	169
Preliminary cultivations .. .. .	\$ 12 0½	\$ 9 1½	\$ 13 7½	\$ 8 9½	\$ 11 8½	\$ 11 3½	\$ 8 4	\$ 15 8½	\$ 4 0	\$ 20 2½	\$ 8 9½	\$ 7 0½	\$ 5 8½	\$ 6 1	\$ 9 1
Seed, drilling and after cultivations	11 10½	11 4½	19 4	14 0	15 0½	7 2½	13 6	1 0 6½	8 5	12 3½	11 0	7 7½	12 2½	7 1	15 1½
Manures .. .. .	—	11 9½	1 17 8½	1 5 4½	8 10½	18 0	18 4½	17 10½	16 5½	6 3½	9 11	6 1	8 0	19 4½	1 0 2½
Harvesting .. .. .	11 3½	18 10½	1 3 8	13 4½	13 7	1 2 10½	11 8½	14 10½	9 6½	8 8	11 8	10 3½	8 9½	8 6	13 4½
Overheads .. .. .	8 8½	8 3½	16 2½	7 1½	9 10½	8 5	5 11½	11 2	4 0½	5 5	6 7½	4 8	5 10½	4 8	11 0
Farm cash cost .. .. .	2 8 11½	2 14 9½	5 10 0½	3 8 8½	2 19 0½	3 7 9½	2 17 10½	3 19 11½	2 2 6½	2 2 10½	2 3 0½	1 15 9	2 0 7½	2 5 8½	3 8 9½
Transport and Grower's rep'n'tative	13 6½	8 3½	9 1	8 2½	6 7½	9 7	7 10	8 3½	4 4½	8 1½	4 6½	4 6½	4 2	4 4½	4 8
Total cash cost .. .. .	2 17 6	3 2 9	5 19 7½	3 16 10½	8 5 8½	3 17 4½	3 5 8½	4 8 3½	2 6 8½	2 11 0	2 7 6½	2 0 3	2 4 2	2 10 1	3 13 5½
Gross cash receipts .. .. .	2 16 3½	2 17 7½	2 14 2½	2 16 11½	2 18 8	2 15 3½	2 17 11½	2 14 2	2 11 2½	2 17 2	2 15 3½	2 15 5½	2 14 9	2 16 7½	2 18 9½
Cash { Profit .. .. .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
{ Loss .. .. .	1 2½	5 1½	3 5 5½	1 0 11½	7 5½	1 2 1	7 9	1 14 1½	4 5	6 2	7 8½	15 2	9 11½	5 6½	19 7½
Resid. Vals. bt. fwd. .. .. .	2 18 9½	3 8 10	14 10½	8 17 8½	1 0	5 6½	7½	1 13	1 10½	1 1	1 4	5½	7	1 6	9½
Gross cost .. .. .	2 18 3½	3 8 7	6 14 6½	3 16 7½	3 6 8½	4 2 10½	3 6 4	4 9 5½	2 8 8½	2 12 1	2 8 10½	2 0 9½	2 5 4½	2 11 7	3 14 2½
Total credits .. .. .	12 11½	9 9½	1 8 9	16 4	12 4½	16 3½	12 8½	16 4½	10 5½	9 2½	11 1	9 6	11 4½	14 7½	14 0
Net cost .. .. .	2 5 8½	2 13 9½	5 5 9½	3 1 3½	2 14 3½	3 6 7½	2 13 7½	3 13 1	1 18 2½	2 2 10½	1 17 9½	1 11 3½	1 14 0	1 16 11½	3 0 2½
Net { Profit .. .. .	11 0	3 10½	—	—	3 11½	—	—	4 4½	—	—	—	—	—	—	—
{ Loss .. .. .	—	—	2 11 7	5 4	—	11 3½	—	18 11	13 0½	14 3½	17 5½	1 4 2½	1 0 9	18 7½	6 4½

Appendix F. FIELD COSTS AND RETURNS PER WASHED TON—continued.

Field Number	171	172	173	174	175	176	178	179	180	181	182
Preliminary cultivations .. ..	£ s. d. 11 7	£ s. d. 4 0½	£ s. d. 8 11	£ s. d. 4 3½	£ s. d. 2 6	£ s. d. 3 8½	£ s. d. 7 4	£ s. d. 5 9	£ s. d. 7 11½	£ s. d. 12 3½	£ s. d. 7 5
Seed, drilling and after cultivations	14 3½	9 0½	10 7½	8 3½	6 7	7 8½	13 10½	14 7½	11 4½	8 11½	8 11½
Manures .. .. .	9 1½	10 5½	6 10	6 0½	8 1	9 5½	6 2½	6 0½	6 0½	1 4 7½	19 4½
Harvesting .. .. .	12 4½	10 0½	12 2½	8 11	10 3	12 5½	14 3	14 2	14 10½	15 8½	1 1 4½
Overheads .. .. .	9 9	5 11½	5 11	4 5½	6 8½	7 8	8 3	8 3½	8 3½	9 8	7 4½
Farm cash cost .. .. .	2 17 1½	1 19 8½	1 19 6	1 12 0½	1 14 1½	2 0 8½	2 10 5½	2 9 4½	2 9 0½	3 11 3½	3 4 6½
Transport and Grower's rep'tative	3 9	7 4½	5 9½	8 8½	7 7½	7 5½	5 0½	5 0½	5 0½	3 7½	3 10
Total cash cost .. .. .	3 0 10½	2 6 10½	2 5 3½	2 0 8½	2 1 9	2 8 1½	2 16 6	2 14 6½	2 14 0½	3 8 14½	3 8 4½
Gross cash receipts .. .. .	2 14 6½	2 15 6½	2 15 11	2 15 9½	2 18 1½	2 18 1½	2 14 10	2 14 10	2 14 10	2 16 1½	2 15 4
Cash {Profit .. .. .	—	8 8½	10 7½	15 1	16 4½	9 11½	—	4½	—	—	—
{Loss .. .. .	6 9½	—	—	—	—	—	8	—	—	16 9½	13 0½
Resid. Vals. bt. fwd. .. .. .	2 2 0½	5 1½	3 2½	6	11	8½	1 1	2 2½	4 4½	10½	7½
Gross cost .. .. .	3 2 10½	2 11 11½	2 8 5½	2 1 2½	2 2 8	2 8 10½	2 16 7	2 16 7	2 18 5½	3 15 9½	3 9 0
Total credits .. .. .	10 8½	12 1½	9 6	7 9½	8 10½	9 1	9 5	12 1	9 6	1 0 1	14 3
Net cost .. .. .	2 12 2	1 19 10½	1 18 11½	1 13 5½	1 13 9½	1 18 9½	2 7 2	2 4 6½	2 8 11½	2 15 8½	2 14 9
Net {Profit .. .. .	2 4½	15 8½	16 11½	1 2 4½	1 4 4½	18 4½	7 8	10 3½	5 10½	—	7
{Loss .. .. .	—	—	—	—	—	—	—	—	—	—	—

88

Field Number	184	185	186	187	188	189	190	196	197	198	199
Preliminary cultivations .. ..	£ s. d. 5 0½	£ s. d. 7 9½	£ s. d. 6 0½	£ s. d. 10 1½	£ s. d. 14 3½	£ s. d. 11 1	£ s. d. 3 3	£ s. d. 3 11½	£ s. d. 8 6	£ s. d. 7 0½	£ s. d. 4 3½
Seed, drilling and after cultivations	9 5½	8 9	10 8	8 6	12 1½	9 9	7 1	7 10½	14 5½	15 1½	13 11
Manures .. .. .	12 2	6 11½	7 1½	6 11½	1 12 7½	1 1 10½	2 1½	19 6½	1 2 10½	18 8½	3 0½
Harvesting .. .. .	12 11½	14 2½	14 9½	12 4½	14 10½	12 0½	7 3	11 8½	1 2 11½	1 1 10	15 0½
Overheads .. .. .	10 3½	10 3½	10 3½	10 3½	9 11½	6 4½	6 7½	5 4½	9 7½	9 7½	12 11
Farm cash cost .. .. .	2 9 11½	2 7 11½	2 8 11	2 8 2½	4 3 10½	3 1 1½	1 6 4½	2 8 6	3 18 5½	3 12 4½	2 9 8½
Transport and Grower's rep'tative	4 7½	4 7½	4 7½	4 7½	8 11	8 3½	4 4½	3 10½	6 6½	6 9½	3 7½
Total cash cost .. .. .	2 14 6½	2 12 6½	2 13 6½	2 12 10½	4 12 9½	3 9 5½	1 10 8½	2 12 4½	4 5 2½	3 19 1½	2 12 10½
Gross cash receipts .. .. .	2 9 10½	2 9 10½	2 9 10½	2 9 10½	2 14 9½	2 19 2½	2 10 4	2 16 10	2 16 1	2 16 1	2 16 11½
Cash {Profit .. .. .	—	—	—	—	1 18 0	10 3½	—	4 6½	1 9 1½	1 3 0½	—
{Loss .. .. .	4 8	2 8	3 7½	—	—	—	—	—	—	—	—
Resid. Vals. bt. fwd. .. .. .	2 0½	6 2	6 2	6 2	1 0½	7½	4 1½	6½	10½	10½	7
Gross cost .. .. .	2 16 7½	2 18 8½	2 19 8½	2 19 0½	4 18 9½	3 10 1½	1 14 10	2 12 10½	4 6 1½	4 0 0½	2 13 5½
Total credits .. .. .	12 8½	13 2½	13 6½	14 1	1 1 10½	14 8½	7 0	12 10½	19 11½	18 5½	10 4½
Net cost .. .. .	2 8 10½	2 5 6	2 6 2	2 4 11½	3 11 11½	2 16 4½	1 7 10½	2 0 0	3 6 1½	3 1 7½	2 3 1½
Net {Profit .. .. .	6 0½	4 4½	8 8½	4 11½	—	8 9½	1 2 6½	16 10	—	—	13 10½
{Loss .. .. .	—	—	—	—	17 1½	—	—	—	10 0½	5 6½	—

**APPENDIX G.**  
**FARMERS' COMMENTS ON GROWTH CONDITIONS.**

Farm.	Previous to drilling.	Germination period.	Thinning to harvest.	Harvesting period.
101	—	—	Rain wanted (early June).	—
102	—	—	Wet weather rendered cleaning difficult; warm spell (late July) very beneficial.	Fine (Oct.).
104	—	Rain wanted; birds and wire-worm doing damage.	Rain wanted (late May).	—
105	—	Rain wanted; intermittent germination; birds pecking early plants.	Rain wanted (late May).	Very wet (early Dec.); frost (mid. Dec.) stopped lifting.
106	—	—	Looking well (late June).	—
107	—	Good rain; crop came up well.	Too much rain and too little sun.	—
108	—	Good plant obtained.	Looking well (mid. June).	—
110	Good seed-bed obtained on lighter land.	Too cold (mid. May); slight damage by fly.	Too dry, slow growth (late May); too wet (late June).	Good lifting condition (Oct.).
111	Difficult to get good seed-bed.	Irregular germination.	Wet and cold (late June).	Wet and muddy (mid. Nov.).
111	—	Good germination; chopped out in record time.	Sun wanted (mid. July).	—
111A	—	Rather thin plant.	Sun wanted (mid. July).	—
114	—	—	Crop not looking well; sun wanted (mid. July).	—
116	Autumn and spring cultivations difficult owing to wet.	Drilling delayed by drought; plant weak and dirty.	More sun wanted (early Aug.).	Very small roots.
117	—	—	Too much rain (late June).	Good weather (mid. Oct.); too wet (early Dec.).
118	Land in good form (mid. March).	—	Too much rain and too little sun (mid. July); lack of sun all through Sept.	Bad lifting conditions (late Oct.).
119	—	—	Looking well (late June).	—
120	—	Good, even germination.	Cold (mid. June), slow growth.	—
121	Good seed-bed obtained.	Good, even germination.	Some parts of field badly wind blown.	—
123	—	—	—	Very wet (late Oct.).
124	Good seed-bed obtained.	Rain wanted; rather thin crop	Sun wanted; bad sugar prospects.	Sharp frosts (early Nov.); rather small roots.
125	Good seed-bed, but very dry.	Crop came up well.	Wet and cold; growth slow.	—
126	—	—	Good plant, but wants rain (early June).	—
127	Too dry to drill early.	Bad germination, due to drought.	Very cold (Aug.), but no disease.	Wet made lifting difficult; frost (Dec.) destroyed many roots.
128	—	—	—	Frosty and wet; lifting difficult; high % tare.
129	Fairly good seed-bed.	Rain wanted; plant healthy, but poor.	—	—
131	Difficult to get good seed-bed; rain wanted.	Good germination.	—	The worst and most expensive crop of sugar beet I ever grew.
133	—	—	Crop looks well; no pests.	—
136	—	—	Rain wanted (early June); cold, slow growth, too much rain (July).	Roots short and fangy; lifting difficult and expensive.
137	—	Too dry, poor germination.	—	Ground very sticky.
138	Difficult to get good seed-bed.	Too dry; patchy germination.	Inter-cultivation difficult owing to wet weather.	—
139	Good seed-bed obtained.	Good germination, but wants rain.	Too wet (late June).	Harvesting slow; crop yielding less than was expected.
141	—	—	Strong, healthy crop; late singled plants look better than those done early.	—

Appendix G. FARMERS' COMMENTS ON GROWTH CONDITIONS—*continued.*

Farm.	Previous to drilling.	Germination period.	Thinning to harvest.	Harvesting period.
142	—	Too dry.	Dry and cold (May); too much rain (June and July); fly bad and crop backward.	Good weather in Oct., but bad in Dec.
143	—	—	Good crop, though rather uneven; too dry early, too wet late.	—
144	Poor seed-bed obtained.	Cold (May); slow and patchy germination.	Too little sun, too much rain; crop backward.	Heavy rains increased cost of harvesting.
146	—	—	Too dry (late May); a thin crop.	—
149	—	—	Weather showery; crop looks well.	—
152	—	Soil very dry, rain wanted.	Moles doing damage; lack of rain and sun; crop backward; wireworm, rooks and fly.	—
153	—	Very dry.	Crop backward, but healthy.	Poor crop, plenty of top; weather very wet for lifting.
154	—	—	Full plant; wants rain (early June); too much rain (mid. July).	—
155	—	—	Fair crop, but growing very slowly (early June).	—
157	—	Good even germination; rain wanted.	—	—
158	—	Too dry for good germination.	Crop very patchy; very dirty, owing to continued rain (early July).	Land very heavy and sticky; harvesting difficult.
160	—	Dry.	Crop patchy; plenty of weeds; sun wanted.	—
162	Fair seed-bed; rain wanted.	—	Poor crop; too much rain.	—
164	—	Too dry; patchy growth.	Weather dry, uneven growth (early June).	—
166	—	Slow germination; rain needed.	Patchy, wants rain (June); crop backward, wants sun (July).	Too wet.
167	—	—	Wants rain badly (June).	—
168	—	Slow germination.	Crop looks well.	—
170	—	—	Earliest drilled looking well; late drilled suffering from cold winds.	—
177	Difficult to get a good seed-bed.	—	—	—
179	—	—	Crop looks well.	—
180	Fine weather.	Good germination.	Crop looking well.	—
182	Work delayed by wet.	—	Earliest drilled seed looks best; weather cold; moles troublesome.	—
183	Poor seed-bed; rain wanted.	Uneven germination.	Earliest drilled plants look best; later drilled ones want sun.	—
184	—	Good healthy plant (May).	—	—
185	—	—	Plant is not full; moles and wire-worm giving trouble.	—
187	—	—	Plant looking well (early June).	—
189	—	Cold nights, germination slow.	Plant rather thin; too little sun.	Roots small.
190	—	—	Fairly good plant; weather very wet (July).	Wet made lifting difficult and expensive.
192	—	Too dry; uneven germination.	Too wet, difficult to work (July).	—
193	—	—	Earliest drilled looks well; weather rather cold.	—

Appendix G. FARMERS' COMMENTS ON GROWTH CONDITIONS—*continued.*

Farm.	Previous to drilling.	Germination period.	Thinning to harvest.	Harvesting period.
194	—	—	Too much rain, very weedy (July); spurry bad; a few bolters.	Roots rather fangy.
195	Difficult to get a good seed-bed.	—	Excessive rainfall, cleaning difficult.	Wet weather made lifting difficult.
196	—	—	Wire-worm and fly; crop looks fairly well.	—
198	—	Rain wanted; uneven germination.	—	Big per cent. tare owing to wet conditions.
199	—	—	Not a full plant.	—
200	—	Uneven germination.	—	—
201	—	Too dry; uneven germination.	Too much rain; plenty of top; a few bolters.	—
202	—	Cold nights, lack of rain, uneven germination.	Too little sun.	—
204	Difficult to get good seed-bed.	Too dry; a rather thin plant.	No rain for 11 weeks (mid. June).	—
205	—	—	Patchy plant, having been checked by drought.	—
206	Land difficult to work.	Land very dry.	—	—
208	Ground very dry.	—	Rain wanted (June); moles; too much rain (July); very weedy.	Roots very dirty and fangy.
209	—	—	Good even crop; sun wanted (July-Sept.).	—
210	Difficult to get good seed-bed.	Germination only fair; cold nights.	Fly and wire-worm affecting early drilled plants; weather very cold and unfavourable.	—
211	Dry seed-bed.	Germination quite good.	Too little sun throughout season.	—
212	—	Uneven germination.	—	—

## APPENDIX H.

### FARMERS' COMMENTS ON VALUE OF TOPS.

#### *Farm*

101. Very fine feed to fold with hoggets; they get fat on them.
102. Excellent for feeding and of inestimable benefit for ploughing in on light soils.
105. Like them for cows and store beasts.
107. Worth more to plough in or to fold than to cart.
108. Equal to any root crop grown; cows milk better and sheep crave for them.
110. Excellent for dairy cows, but carting is the difficulty.
111. Their feeding value for sheep, including ewes, and store cattle, is excellent; my ewes lived entirely on them until within one week of lambing.
112. If my beet crop is grown on light land I use the tops for sheep feed; if it is grown on heavy land and the weather is bad I plough them in. In my opinion there is more immediate return from feeding them, but in the long run I rather favour ploughing in. I never cart them off.
- 113A. 197 hoggets were fed from the 10th October to the 4th November; from the 4th November to the 6th January 160 hoggets were feeding on the tops.
114. I quite think you can grow another sack of corn per acre by ploughing the tops in. From a feeding point of view, I consider the tops worth £2 per acre, if not more. In fact, they are almost worth as much as a turnip crop.
115. Very sound food indeed, especially for dairy stock.
117. I believe the tops are quite equal to an average crop of turnips for feed, and beet should certainly replace this crop for economic agriculture. They appear to me to be of about the same food value as cabbage, and are more relished by all stock. However, on land deficient in humus it must be a mistake to collect an already equally distributed coat of organic manure when the returns for fattening are so small, and stock-keeping in general shows such small returns for the labour involved.
118. A good food for stock, but, in my case, of more value as a green manure to assist in raising the fertility of the land which had been badly farmed for many years. In my opinion, on all soils which are inclined to tread and to be of a sticky nature, to plough in the tops and crowns is much the better.
120. I have no actual standard by which to judge the value of beet tops, but from observation I should say that on one of my fields (*Field No. 38 in this Report*) they were quite as good as a 10 ton crop of swede turnips. As a manure I should hesitate to put their value at anything higher than 7 loads of farm-yard manure (rotted) per acre.
123. The ewes, as we have noticed in previous years, did well, but we have not found them suitable for young sheep.
124. My ewes did very well on the tops, and I consider them a valuable asset. After some years' experience I think it very essential to be careful in changing their class of food after being some time on sugar beet tops, and I strongly recommend a gradual change on to turnips especially.
128. Like them very much for cows, but carting is the difficulty.
129. Should not cart off for any stock except pigs. Not worth clamping.
131. Excellent for feeding to all stock.



Appendix H. FARMERS' COMMENTS ON VALUE OF TOPS—*continued.*

*Farm*

136. Except when folded early, I think they are of less value as a food than as a manure unless they are carted off quite fresh and made into silage, of which I have no experience. For sheep folding I consider them a useful adjunct, but not a complete food.
137. For feeding are of equal value to roots.
138. Sheep did not do well, but cattle liked them. Bad weather made carting difficult.
142. As a food I have found them excellent, especially for dairy cows. As a manure I have no experience, as this is the first year I have ploughed any tops in. I have drilled wheat on one piece, and at present (end of March) it looks well.
144. Excellent for sheep; great possibilities when their management becomes better known.
146. I put their value at approximately £2 per acre.
152. An excellent food for sheep, especially in-lamb ewes. One acre of tops in the early part of the season will keep 100 sheep for three days.
153. I think the tops are a valuable green manure. People round here find the tops very useful as sheep keep.
154. I think the tops make a good manure if you can get them well covered, but they are rather difficult to plough in. Two years ago I had same heaps left in the field till rotten, and the barley which followed was badly laid where the heaps had been. But I consider they are quite as good for stock as roots if you can get them fairly free from dirt.
155. Five acres kept 100 ewes for a fortnight.
158. I think the tops are quite good as food for sows and pigs to take the place of any other green food, in fact I should prefer sugar beet tops to whole mangolds with their tops on. They are also, in my opinion, good for sheep provided they have not been frosted. As regards their manurial value, I should rather have them ploughed in than folded: I have tried one against the other and my crop of barley next year was better after the ploughed in portion of the field, although this may have been partly due to the wet state of the field when the sheep were being folded.
160. They give a large amount of good keep. I found the sheep did well on them and that a few loads carted to dairy cows noticeably increased the milk supply. Weather conditions and the state of the roads precluded much carting with me.
166. Ploughing in gives good results.
167. The ewes seemed to do uncommonly well on them.
168. Have had very good crops, and also moderate ones, after tops ploughed in. It is difficult accurately to estimate their value. Have never used them as a food.
169. In the Fen there is not much one can do with them except plough them in.
178. They make a good coat of manure.
183. Tops have been used in big quantities for cows, growing stock and colts, and I consider them equal to white turnips.
184. On this light land it pays to plough in as a change of manuring from folding. Have fed some to pigs, with no ill-effects. The pigs liked them.

Appendix H. FARMERS' COMMENTS ON VALUE OF TOPS—*continued.*

*Farm*

185. Very good feed for sheep and pigs, which appeared to do well on them.
187. Sheep did too well on them. All stock do remarkably well provided the tops are not frosted.
192. Good value for cows and, given in moderation, are excellent for milk production. As to manurial value, if one could plough in almost directly they are good; unfortunately, time will not always permit for so doing.
195. The best quality barley grown on this farm during 1927 was on fields where beet tops had been ploughed in.
196. There was an exceptionally large amount of tops, and my in-lamb ewes did very well on them up to the beginning of February. I believe they are equal to a crop of white turnips.
199. Tops are excellent feed for pigs and cows, also for sheep. Care must be taken not to use them too soon after topping. On light soils in particular their value as manure is considerable.
201. I put their value, either for feeding or for ploughing in, at about £1 per acre.
202. I think they are worth about 5s. per cart load for sheep feed as the sheep seem to do very well on them.
204. Prefer to plough in rather than feed them, but ploughing in should be done early
206. Very good for all classes of stock, especially sheep. Never seen bullocks do better.
209. I always fold my ewe flock on the tops, but on one field (*No. 190 in this Report*) I had more than I could feed and so ploughed them in. I regard them as good value for green manuring.
212. Excellent for pigs. I wish I was able to store them.

PRINTED BY  
W. HEFFER AND SONS LTD.,  
CAMBRIDGE

Uniform with the present publication:

**Report No. 1.** "An Economic and Financial Analysis of Fourteen East Anglian Farms in 1923-24." (*Second Edition.*) Price 1s. post free.

**Report No. 2.** "An Economic and Financial Analysis of Six Eastern Counties Farms in 1924-25." (*Second Edition.*) Price 1s. post free.

**Report No. 3.** "An Economic and Financial Analysis of Fifteen East Anglian Farms in 1924-25." (*Second Edition.*) Price 1s. post free.

**Report No. 4.** "An Economic and Financial Analysis of Seven Eastern Counties Farms in 1925-26." Price 1s., post free.

**Report No. 5.** "A Successful Norfolk Poultry Farm, 1922-26." (*Second Edition.*) Price 1s., post free.

**Report No. 6.** "An Economic and Financial Analysis of Thirteen East Anglian Farms in 1925-1926." Price 1s., post free.

**Report No. 7.** "The Economy of a Norfolk Fruit Farm, 1923-6." Price 2s., post free.

**Report No. 8.** "An Economic and Financial Analysis of Seven Eastern Counties Farms in 1926-27." Price 1s., post free.