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Farm business analysis O. D.

W Y E C O L L E G E
(University of London)

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FARM BUSINESS STATISTICS FOR SOUTH EAST ENGLAND

Results for the 1959 - 60 & 1960 - 61 Farming Years

PART I - III

Wye college

School of Rural Economics and related studies
Department of Agricultural Economics.

I N D E X

Part I

	Page
Foreword	2
Farm Profitability in 1959 and 1960	3
Trends in Production	3
Profitability and Farm Size	7
Profitability and Type of Farm	10

Part II

Classification of Farms and Index of Results	14
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Part III

Efficiency Standards, 1962 - 3	45
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This bulletin is issued in 3 separate parts.

FOREWORD

This bulletin presents an analysis of farming costs, returns and profits in South-East England based upon more than 200 farm accounts collected by the Department of Agricultural Economics, Wye College, for the 1959 and 1960 farming years. The information has been specially analyzed and classified so as to throw light on the chief factors of economic importance to management and detailed results are given for fifteen major groups of farms.

A commentary has also been prepared showing how and why profits, costs and returns fluctuated on an identical sample of 156 farms over the two year period concerned. The same sample has also been used for a discussion of the relationships between size and type of farm business and farm profitability.

Farmers are increasingly aware of the need for better business methods and considerable numbers are already modifying their records and accounts in order to provide a sounder basis for management. The bulletin has been planned to assist in the analysis stage of this work while at the same time showing the importance of various factors, such as farm size and capitalization, for the general levels of profitability.

J. D. Sykes.
Wye College,
October, 1962.

Farm Profitability in South-East England 1959 & 1960

1. Changes in the Distribution of Profits on 156 Farms

	<u>% with Losses</u>		<u>% with Profits</u>				
	<u>over £500</u>	<u>under £500</u>	<u>under £500</u>	<u>£500-1500</u>	<u>£1500-3000</u>	<u>£3000-5000</u>	<u>over £5000</u>
1959/60	5	7	15	34	22	5	12
1960/61	8	7	17	34	20	8	6

Profitability declined on average in 1960 mainly due to a reduction in the number of very high profits and an increase in the incidence of losses. Averaging the two years, one farm in seven made a loss and a further one farm in six showed an annual profit of less than £500. On the other hand, one farmer in eleven had an income exceeding £5000; more than one third of the farmers had incomes over £1500 per year.

2. Profitability and Trends in Production

The general impression of profitability shown in Table 1 above is one of considerable stability but considerable changes in fact were taking place within the sample. For example, profits rose by more than five per cent on two fifths of the sample (69 farms) and declined by at least this percentage on a further 71 farms.

Most farms achieving higher profits did so by expanding output or maintaining it at a relatively unchanged level. Furthermore, on a high proportion of these farms costs were held constant or even reduced, as the following table shows.

Table 2

Changes in Profits, Costs & Output, 1959 - 1960

	<u>69 Farms with Higher Profits</u>			<u>71 Farms with Lower Profits</u>		
	% with			% with		
	<u>Higher Costs</u>	<u>Unchanged Costs</u>	<u>Lower Costs</u>	<u>Higher Costs</u>	<u>Unchanged Costs</u>	<u>Lower Costs</u>
Increased Output	34	47	19	100	-	-
Unchanged "	-	52	48	53	35	12
Decreased "	-	11	89	28	44	28
	<u>16</u>	<u>44</u>	<u>40</u>	<u>40</u>	<u>38</u>	<u>22</u>

The table also shows that 70 per cent of the farms with lower profits produced less. In addition, increased costs were more than twice as frequent as on farms achieving higher profits and affected two farms in five.

Lower outputs on lower profit farms mainly resulted from falls in potato and root crop production but declines in cattle, sheep and poultry production were also important. On farms achieving higher profits, however, pig output was most likely to decline followed by fruit and hops. The decline was more than offset by more than half the producers increasing their cattle, cereal and root crop production.

Table 3Changes in Farming Costs, 1959-1960

<u>Item</u>	Percentage of Farms showing		
	<u>Higher Costs</u>	<u>Unchanged Costs</u>	<u>Lower Costs</u>
Purchased Feedingstuffs	26	24	50
Fertilizers	31	23	46
Rent	31	61	8
Power & Machinery	27	27	46
Labour	23	52	25
Total Costs	28	51	21

Appreciable fluctuations in farm output often have surprisingly little effect on total costs chiefly due to the high proportion of fixed costs in farming, such as labour, rent, depreciation of equipment, etc. This feature is reflected in the above table which shows that total costs continued virtually unchanged on half the farms. The table also shows, however, that lower outlays on feedingstuffs, fertilizers and power and machinery were widespread and occurred on half the farms. However, fertilizer costs and rent rose on about one third of the sample. Rents, inclusive of rates and improvement charges, were the most stable of all costs and remained unchanged on three fifths of all farms. Only in the case of labour was there any comparable degree of cost stability.

Power and machinery costs fell on many farms as a result of weather conditions in the autumn of 1960 and spring of 1961 delaying the root harvest and spring cultivations. This factor had far less effect in reducing the costs of labour because the labour force is relatively permanent and a considerable proportion is engaged in livestock production.

Farming profitability depends upon the interaction of a wide range of factors, many of which the farmer is powerless to control. On the other hand, some factors may be closely controlled by managerial ability, energy and organizing skill and this has a direct bearing upon the efficiency of production and upon returns. Returns may be appreciably improved where the farmer's real control over his business can be extended so that higher outputs and more economic levels of expenditure can be achieved. The importance of these items for profitability has been indicated above. Wide fluctuations in prices and production conditions can only be successfully countered by management having the skill to quickly appraise changing conditions and the flexibility to take swift and appropriate action. Such adjustments daily become more necessary in order to maintain the often narrow and highly vulnerable margin between costs and returns.

Table 4

Association between Costs, Output & Profits, 1959 - 1960.

	Extent of change in		
	<u>Total Costs</u>	<u>Total Output</u>	<u>Profit</u>
69 Farms achieving Higher Profits	- 4%	+ 5%	+ 118%
71 " " Lower "	+ 2%	- 12%	- 60%

The above table shows the considerable effect that apparently small changes in costs and output can have on profits. Undoubtedly, on very many farms there is an urgent need to pay far more attention to seemingly trivial savings in costs and apparently insignificant additions to output. On small and medium-sized farms, in particular, this thrift and opportunism often constitute a high proportion of the net farm profit and provide one of most effective means of achieving considerably higher net returns.

3 Profitability and Size of Farm

Size is a major factor affecting profitability, particularly if size is measured in terms of scale of business rather than acres alone. Acres are obviously important in farming but nowadays the real limit to production is usually the relative scarcity of some other resource, such as capital or 'know-how'.

In the following tables, farms have been classified by size of business as measured by the total value of standard output.* By this means the productive capacity of the farm, a reflection of the availability of land, labour and capital, has been assessed.

Examination of the results shows that production tends to become more efficient on average and the level of profitability rises, as size of business increases. The larger the farm business the more diversified it tends to be with an increasing variety of stocking and cropping as land becomes less of a limiting factor. Cash cropping is more widespread, and intensive livestock enterprise, such as pigs, poultry and dairy cows, give way relative to sheep and cattle.

Much of the greater economic efficiency of the larger business in South-East England probably results from these differences in organization. The appreciable economies in the use of labour and machinery, for example, probably reflect the greater emphasis on arable cropping, and, perhaps, a better balance of enterprises and nearer optimum-sized individual enterprises, than on small farm businesses.

Table 5

Size of Farm Business & Profitability

	Total Value of Standard Output				
	under £4,000	£4-6,000	£6-10,000	£10-20,000	over £20,000
No. Farm Results	68	81	107	84	33
Net Farm Income	£592	£864	£1,075	£3,160	£7,350
<u>including</u> Farmer's own manual labour	£502	£410	£402	£242	£165
Management & Investment Income per acre	£1. 4s	£3. 16s	£3. 18s	£9. 6s	£10. 18s

* The standard output of a given farm is estimated by multiplying its cropping and stocking by average yields and prices.

Table 5 shows the average rate at which profitability increases with increasing size of business. Net Farm Income, the profit before charging the value of the manual labour of the farmer and his wife and interest on capital, amounts to little more than a farm worker's wage on the small businesses. Even on farms with up to £10,000 standard output net profit averaged less than £4 per acre.

Table 6

Size of Farm Business & Efficiency

	Total Value of Standard Output				
	under £4,000	£4-6,000	£6-10,000	£10-20,000	over £20,000
Management & Investment Income:					
per £100 Tenant's Capital	£2.9	£8.7	£8.0	£19.6	£22.7
per £100 Total Expenses	£2.1	£7.7	£7.5	£18.8	£23.6
Labour & Machinery Costs per £100 net output	£68	£61	£61	£54	£50

The return on capital is a good indicator of profitability. The above table shows the range is extremely wide, rising from an average below 3 per cent. per year on the smallest farm businesses to almost 23 per cent. on the largest. The rate of profit produced per £100 total expenses follows a pattern very similar to that for capital. Efficiency increases as size of business grows and this results in lower costs of production. Thus £100 net output is produced with about 25 per cent. less outlay on labour and machinery on farms with more than £20,000 output as compared with those with less than £4,000.

The fact that the progression is not constant is of some interest. Examination of the data suggests that a fairly high proportion of businesses with between £4-6,000 standard output are relatively highly efficient small specialist farms, while a high proportion in the group with £6-10,000 standard output are much less efficient mixed farms of medium size.

Table 7

Size of Business & Differences in Farm Organization.

	<u>Total Value of Standard Output</u>				
	under £4,000	£4-6,000	£6-10,000	£10-20,000	over £20,000
Average Acreage	75	118	173	314	661
% Acreage: Feed Crops	87	73	70	62	55
Livestock Units per 100 Acres	53	48	47	39	34
System Index	111	123	136	140	137
Tenant's Capital per Acre	£41.8	£43.8	£48.9	£47.5	£48.1
Yield Index	97	103	101	101	105

The higher profitability of the larger farm business is associated with a number of organizational features, the chief of which is acreage, as the above table shows. For the majority of farmers expansion through farming extra land would probably be the most satisfactory way to expand in South-East England; if it were available. Its importance lies in affording greater opportunities for cash cropping with sheep and cattle replacing pigs and poultry.

The overall effect of changes in size results, on the whole, in more intensive production per acre as shown by the rising trend in System Index and in greater capitalization per acre. Further consequences are, a considerable increase in labour productivity, an overall increase in efficiency, and substantially higher net returns.

Yields, as measured by Yield Index, appear to change less with increasing size of business than organizational factors. The evidence tends to suggest some improvement, but it is not clear whether this results from better equipment and methods, greater 'know-how' or possibly more fertile soils.

4. Profitability & Type of Farm.

A wide variety of farming is common to the south-eastern counties as a result of the diversity of soil conditions, a climate favourable to most farm crops and a wide variation in farm size and capitalization. The accompanying table shows the most important aspects of economic organization on 15 groups of farms for which information was available for 1959/60 and 1960/1.

Table 8 ECONOMIC STANDARDS FOR FARMS GROUPED ACCORDING TO TYPE & SIZE OF TENANT'S INVESTMENT

<u>Type of Farm</u>	<u>No. Results</u>	<u>Average Acreage</u>	<u>Tenant's Capital.</u>	<u>Total Output</u>	<u>Management &</u>	<u>Value of Farmer & Wife's Labour</u>	<u>Net Farm Income</u>	<u>Return on Capital</u>	<u>Costs per £100 Output</u>
					<u>Investment Income</u>				
			£	£	£	£	£	%	£
Predominantly Milk - under 100 acres	32	71	3,225	3,950	300	405	705	9.3	92.5
" Pigs and/or Poultry	16	88	5,455	7,200	420	445	865	7.9	94.0
" Sheep and/or Cattle	20	165	5,790	4,375	365	470	835	6.3	91.7
Milk with Pigs and/or Poultry	23	112	7,030	8,800	430	790	1,220	6.1	95.2
Mainly Hops	17	156	7,470	9,400	525	450	975	7.0	94.4
Sheep/Cattle with Pigs/Poultry & Arable	34	162	7,730	7,200	450	630	1,080	6.1	93.4
Mainly Milk	29	172	7,785	8,300	575	415	990	7.4	93.1
Arable - mainly roots and vegetables	11	154	8,500	12,000	1,235	540	1,775	14.4	89.7
Predominantly Milk - over 100 acres	53	186	8,660	8,850	615	260	875	7.1	93.1
" Arable - Cereals	19	230	8,770	9,500	870	380	1,150	8.8	91.9
Mainly Fruit	22	143	10,800	16,000	2,545	305	2,850	23.6	84.1
Milk with Pigs/Poultry and Arable	11	198	12,000	12,600	1,635	425	2,060	13.5	87.0
Milk with Arable	24	290	13,335	14,200	2,225	325	2,600	17.1	83.9
Sheep/Cattle with Arable	16	325	15,680	11,830	1,490	580	2,070	9.5	87.5
Milk with Sheep/Cattle & Arable	27	473	18,460	17,200	2,690	390	3,080	14.6	84.3

The table shows that type of farm largely depends upon acreage, soil quality and level of capitalization. It also shows that the more diverse farms are the larger farms, that costs are generally lower and the returns on capital greater as one moves away from specialized livestock holdings on small acreages. Although Net Farm Income appears to reach comparative satisfactory levels on many small farms, a large element comprises the value of the manual labour provided by the farmer and his wife. While it is true that many small farmers work hard for long hours and see relative small returns for their labour, skill and capital, account has to be taken of the value set upon the comparative freedom of this way of life, and upon the homegrown produce consumed by the farmer and his family, etc.

Most farms tend to be highly specialized up to about £7-8,000 of turnover and concentrate on one or two main lines of production. As turnover rises beyond this level, however, a wider range of enterprises becomes more common and these are often developed as specialist departments within the business as a whole. Given a well-balanced system, with a number of specialist departments and the present pattern of prices for farm products, it is often possible for the larger business to achieve high rates of profitability. Even so, there are quite wide ranges in the returns produced by different soils and different farming systems. On fertile soil, for example, given good management and an intensive system, such as cash roots and fieldscale vegetable production, 150 acres with £8,000 tenant's capital produced an annual Net Farm Income averaging almost £1,800, 14½ per cent. on capital, between 1959 and 1961. In less favourable environments, 200 acres and £10,000 tenant's capital were needed to produce comparable results.

Farm production can be organized in a variety of ways to overcome limiting factors such as scarcity of land and labour. For example, of two groups of farms with roughly equal investments, averaging between £5,000-£6,000 tenant's capital, one specialized in pig and poultry production and the other in sheep and cattle. The former did so largely to overcome the disadvantage of relative scarcity of land and on average, these farms occupied only half the acreage used by farms specializing in sheep and cattle production. Output was markedly lower on the latter farms and whereas the rate of turnover of capital averaged 1.3 times per year on pig and poultry farms, only three-quarters of the tenant's capital was turned over on the sheep and cattle farms. Costs absorbed a higher proportion of output on the intensive holdings but this was more than offset by the larger volume of turnover thus resulting in a larger net profit and a better return on capital.

Average results, of course, conceal a considerable range in performance within in group of farms and do not indicate the order of stability of annual income. Nevertheless, table 8 indicates what the levels of capitalization and relative profitability have been for typical farming systems in South-East England in recent years.

Table 9

FARM RESULTS CLASSIFIED ACCORDING TO SIZE OF BUSINESS

Average Financial Results for 1959/60 & 1960/1

Size of Business measured as Total Value of Standard Output

under £4,000 £4-6,000 £6-10,000 £10-20,000 over £20,000

No. Results

68

81

107

84

33

Output per 100 acres

Expenditure per 100 acres

	£	£	£	£	£		£	£	£	£	£
Cattle, Sheep & Wool	898	790	738	677	818	Fertilizers	252	309	345	352	381
Pigs, Poultry & Eggs	995	949	1183	929	473	Rent & Rates	317	351	369	343	368
Milk	<u>1870</u>	<u>2002</u>	<u>1614</u>	<u>1403</u>	<u>636</u>	Power & Machinery	765	757	830	850	838
<u>Total Livestock</u>	3763	3741	3535	3009	1927	Labour - paid	517	1047	1341	1459	1623
Cereals	378	607	771	993	1415	unpaid	735	394	316	91	50
Roots & Market Garden	49	227	589	453	601	Miscellaneous	<u>455</u>	<u>476</u>	<u>536</u>	<u>598</u>	<u>526</u>
Hops & Fruit	70	385	409	1115	1474	<u>Total Expenditure</u>	<u>3042</u>	<u>3334</u>	<u>3737</u>	<u>3699</u>	<u>3787</u>
Other	<u>142</u>	<u>115</u>	<u>69</u>	<u>81</u>	<u>98</u>		£	£	£	£	£
<u>Total Crops</u>	639	1334	1838	2642	3588	<u>Management & Investment Income</u>	120	382	390	929	1091
Miscellaneous	<u>420</u>	<u>298</u>	<u>261</u>	<u>232</u>	<u>203</u>	add Farmer & Wife's Labour	671	346	232	77	25
<u>Total Output</u>	4822	5373	5634	5883	5718	<u>Net Farm Income</u>	791	728	622	1006	1116
less Feed Purchases	1540	1490	1322	1039	639	Tenant's Capital	4184	4380	4895	4749	4806
" Seed "	<u>118</u>	<u>167</u>	<u>185</u>	<u>216</u>	<u>201</u>	Return* on Capital (%)	2.9	8.7	8.0	19.5	22.6
<u>Net Output</u>	<u>3164</u>	<u>3716</u>	<u>4127</u>	<u>4628</u>	<u>4878</u>						

* Management & Investment Income per £100 Tenant's Capital.

Table 10

FARM RESULTS CLASSIFIED ACCORDING TO SIZE OF BUSINESS

13

Efficiency Standards - Averages for 1959/60 & 1960/1

Size of Business measured as Total Standard Output

	under £4,000	£4-6,000	£6-10,000	£10-20,000	over £20,000						
Average Standard Output	£2,878	£5,007	£7,772	£13,766	£28,425						
Acreage Crops & Grass	75	118½	173	314	661						
<u>Organizational Factors</u>						<u>Labour & Machinery Economy</u>					
System Index	111	123	136	140	137	Labour & Machinery Costs per £100 Net Output	£68	£61	£61	£54	£50
Farm Feed Acres per 100 acres	87	73	70	62	55	Power & Machinery Costs per 1000 Tractor Work Units	£	£	£	£	£
Livestock Units per 100 acres	53	48	47	39	34	Repairs, Tax, Ins.	138	134	143	168	146
<u>Yield Factors</u>						Fuel & Elect.	146	141	134	116	108
Yield Index	97	103	101	101	105	Contract Charges	120	82	67	40	38
Milk Yield per Cow (galls)	771	742	791	818	792	Depreciation	182	187	205	197	161
Milk Sales " "	£120	£112	£120	£124	£104	Total	586	544	549	519	454
Output per Prod. L/S Unit.	£71	£79	£74	£74	£59	<u>Crops per 100 acres</u>					
<u>Feed Economy Factors</u>						Cereals	19	26	28	33	39
Forage Acs. per Grazing L/S Unit.	2.0	1.8	1.8	1.8	1.8	Roots & Mkt. Garden	4	5	6	7	8
Adj. Feed Acs. per L/S Unit.	2.7	2.6	2.9	2.5	2.3	Hops & Fruit	-	1	3	3	3
L/S Output per Adj. Feed Acre	£26	£29	£28	£29	£26	Miscellaneous	2	2	2	1	2
						Grass	75	66	61	56	48
						Total	100	100	100	100	100

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FARM BUSINESS STATISTICS FOR SOUTH-EAST ENGLAND

Results for the 1959 - 60 & 1960 - 61 Farming Years

PART II

Wye college Department of Agricultural Economics.

14

CLASSIFICATION OF FARMS FOR COMPARATIVE ANALYSIS

The effectiveness of comparative analysis in farm management depends to a large extent upon correct classification. The main objective is to identify and group together farms with basically similar types and amounts of land, capital and labour, producing similar kinds and quantities of farm products. The best system of classification so far developed at Wye is based upon the grouping together of farms whose standard output is similar and whose main productive enterprises are of comparable type and importance.

	Page
<u>Farms with One Main Enterprise - producing 60% or more of total standard output</u>	
Predominantly Milk - under 100 acres	15 - 16
" " - over " "	17 - 18
" Pigs and/or Poultry	19 - 20
" Sheep and/or Cattle	21 - 22
" Arable	23 - 24
Intensive Arable - Mainly Fruit	25 - 26
" " - Mainly Hops	27 - 28
" " - Mixed	29 - 30
<u>Farms with Two Main Enterprises - producing 75% or more of total standard output, with neither contributing less than 30%</u>	
Milk with Pigs and/or Poultry	31 - 32
Sheep and/or Cattle with Arable	33 - 34
Milk with Arable	35 - 36
<u>Farms with Three Main Enterprises - producing 80% or more of total standard output and with no main enterprise contributing less than 20%.</u>	
Milk with Pigs and/or Poultry and Arable	37 - 38
Milk with Sheep and/or Cattle and Arable	39 - 40
Pigs and/or Poultry, Sheep and/or Cattle and Arable	41 - 42
<u>Mixed Farms - main enterprise contributing between 40-60% of total standard output, no other enterprise producing more than 30%.</u>	
Mainly Milk	43 - 44

PREDOMINANTLY MILK FARMS - UNDER 100 ACRES

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/61</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	15	17	6				
Average Acreage	73	70½	68¼				
		<u>OUTPUT</u>			<u>EXPENDITURE</u>		
	£	£	£		£	£	£
Cattle	480	441	526	Fertilizers	281	384	254
Sheel & Wool	33	-	-	Rent & Rates	338	390	317
Pigs	84	41	12	Power & Machinery	774	750	683
Poultry & Eggs	189	93	58	Labour - Paid	740	690	478
Milk	<u>3942</u>	<u>4621</u>	<u>4566</u>	" Unpaid	626	705	868
<u>Total Livestock</u>	4728	5196	5162	Miscellaneous	<u>498</u>	<u>576</u>	<u>519</u>
				<u>Total Expenditure</u>	<u>3257</u>	<u>3495</u>	<u>3119</u>
Cereals	162	108	191				
Roots & M. Garden	6	1	2	Management & Investment Income	216	605	1098
Hops & Fruit	37	-	-	Add Farmers own Labour	529	616	691
Other Crops	<u>40</u>	<u>174</u>	<u>229</u>	<u>Net Farm Income</u>	745	1221	1789
<u>Total Crops</u>	233	283	422				
Miscellaneous	<u>300</u>	<u>350</u>	<u>178</u>	Tenant's Capital	3930	4337	4294
<u>Total Output</u>	5261	5829	5762	Return on Capital	5.5%	14.0%	25.6%
Less Purchased Feed	1673	1660	1461				
" Seed	<u>115</u>	<u>69</u>	<u>84</u>				
<u>Net Output</u>	<u>3473</u>	<u>4100</u>	<u>4217</u>				

* High Profit Farms.

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1</u> *		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1</u> *
No. Farms	15	17	6				
Average Acreage	73	70½	68½	Forage Acres/Grazing L.S. U.	2.20	2.00	1.70
				Adjusted Feed Acres /L.S.U.	3.05	2.91	2.54
System Index	120	124	131	Livestock Output/Adj. Feed Acre	£31.5	£36.1	£40.9
Farm Feed Acres per 100 acres	97.4	93.6	87.2	Index of Concentrate Feed Use	-	90	97
Livestock Units per 100 acres	50.3	51.6	53.8	Labour & Mach./£100 Net Output	65.2	55.9	48.1
				Labour Cost/100 Man Work Units	143	142	131
Yield Index	103	108	106	Labour Efficiency Index	313	317	337
Livestock Yield Index	102	108	108	<u>Power & Mach./1000 Tractor Work Units</u>	£	£	£
Crop Yield Index	99	103	71	Repairs & Insurance	158	161	152
Milk Yield per Cow (Gallons)	735	806	790	Fuel & Electricity	154	147	122
Milk Sales per Cow	£118	£124	£123	Contract	98	92	95
Output per Productive Livestock Unit	£96.5	£102.5	£101.7	Depreciation	<u>174</u>	<u>191</u>	<u>114</u>
				<u>Total</u>	<u>584</u>	<u>591</u>	<u>483</u>

* High Profit Farms

PREDOMINANTLY MILK FARMS - OVER 100 ACRES

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/61</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	26	27	9				
Average Acreage	189½	184	164¼				
	<u>OUTPUT</u>				<u>EXPENDITURE</u>		
	£	£	£		£	£	£
Cattle	585	563	645	Fertilizers	351	355	302
Sheep & Wool	53	69	104	Rent & Rates	337	379	364
Pigs	49	15	46	Power & Machinery	710	663	646
Poultry and Eggs	133	130	124	Labour - Paid	1156	1114	934
Milk	<u>3215</u>	<u>3321</u>	<u>3285</u>	- Unpaid	197	221	245
<u>Total Livestock</u>	4035	4098	4204	Miscellaneous	<u>412</u>	<u>484</u>	<u>464</u>
Cereals	437	341	344	<u>Total Expenditure</u>	<u>3163</u>	<u>3216</u>	<u>2955</u>
Roots & M. Garden	21	19	77	Management & Investment Income	334	351	807
Hops & Fruit	2	2	-	Add Farmers own Labour	135	141	173
Other Crops	<u>50</u>	<u>80</u>	<u>139</u>	<u>Net Farm Income</u>	469	492	980
<u>Total Crops</u>	510	442	560	Tenant's Capital	4174	4541	4520
Miscellaneous	<u>216</u>	<u>208</u>	<u>222</u>	Return on Capital	8.0%	7.7%	17.8%
<u>Total Output</u>	4761	4748	4986				
<u>Less Purchased Feed</u>	1129	1085	1128				
" Seed	<u>135</u>	<u>96</u>	<u>96</u>				
<u>Net Output</u>	<u>3497</u>	<u>3567</u>	<u>3762</u>				

* High Profit Farms.

EFFICIENCY STANDARDS

	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1</u> *		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1</u> *
Year							
No. Farms	26	27	9	Forage Acres/Grazing L.S.U.	2.12	1.88	1.79
Average Acreage	189½	184	154½	Adjusted Feed Acres/L.S.U.	3.22	2.85	2.79
				Livestock Output/Adj. Feed Acre	£30.9	£33.1	£33.8
System Index	102	106	111	Index of Concentrate Feed Use	-	82	85
Farm Fed Acres per 100 acres	93.2	85.6	81.7				
Livestock Units per 100 acres	41.4	44.2	45.4	Labour & Mach./£100 Net Output	£60.2	£57.5	£49.5
				Labour Cost/100 Man Work Units	£180	£170	£150
Yield Index	109	107	107	Labour Efficiency Index	100	105	119
Livestock Yield Index	110	108	108				
Crop Yield Index	97	112	114	<u>Power & Mach./1000 Tractor Work Units</u>	£	£	£
Milk Yield per Cow (Gallons)	838	819	821	Repairs & Insurance	157	142	127
Milk Sales per Cow	£129	£123	£120	Fuel & Electricity	149	123	124
Output/Productive Livestock Unit	£99.2	£93.9	£94.2	Contract	63	54	77
				Depreciation	<u>175</u>	<u>181</u>	<u>157</u>
				<u>Total</u>	<u>544</u>	<u>500</u>	<u>485</u>

* High Profit Farms.

PREDOMINANTLY PIGS / POULTRY

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	6	10	3				
Average Acreage	92	86	119½				
		<u>OUTPUT</u>				<u>EXPENDITURE</u>	
	£	£	£		£	£	£
Cattle	1284	721	224	Fertilizers	230	289	319
Sheep & Wool	369	343	184	Rent & Rates	351	381	296
Pigs	2353	2662	3866	Power & Machinery	867	1071	1125
Poultry & Eggs	2332	2558	2444	Labour - Paid	811	1129	1279
Milk	<u>357</u>	<u>-</u>	<u>-</u>	" - Unpaid	608	698	301
<u>Total Livestock</u>	6695	6284	6718	Miscellaneous	<u>589</u>	<u>676</u>	<u>686</u>
				<u>Total Expenditure</u>	<u>3456</u>	<u>4244</u>	<u>4006</u>
Cereals	704	581	1299				
Roots & M. Garden	(-)12	122	365	Management & Investment Income	536	457	1681
Hops & Fruit	3	702	-	<u>Add Farmers own Labour</u>	564	456	159
Other Crops	<u>83</u>	<u>107</u>	<u>264</u>	<u>Net Farm Income</u>	1100	913	1850
<u>Total Crops</u>	778	1512	1928				
Miscellaneous	<u>334</u>	<u>566</u>	<u>515</u>	Tenant's Capital	4641	6001	5953
<u>Total Output</u>	7807	8362	9161	Return on Capital	11.6%	7.6%	28.2%
<u>Less Purchased Feed</u>	3628	3465	3169				
" Seed	<u>187</u>	<u>196</u>	<u>305</u>				
<u>Net Output</u>	<u>3992</u>	<u>4701</u>	<u>5687</u>				

* High Profit Farms.

PREDOMINANTLY PIGS / POULTRY

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	6	10	3				
Average Acreage	92	86	119½	Forage Acres/Grazing L.S.U.	1.94	1.26	1.38
				Adjusted Feed Acres/L.S.U.	2.37	2.19	2.43
				Livestock Output/Adj. Feed Acre	£37.7	£37.8	£40.5
System Index	178	194	176	Index of Concentrate Feed Use	-	93	83
Farm Feed Acres per 100 acres	69.1	67.6	64.4				
Livestock Units per 100 acres	78.1	92.4	71.6	Labour & Mach./£100 Net Output	£70.8	£63.1	£48.1
				Labour Cost/100 Man Work Units	£155	£165	£197
Yield Index	106	104	123	Labour Efficiency Index	115	108	91
Livestock Yield Index	105	106	126				
Crop Yield Index	106	90	111	<u>Power & Mach./1000 Tractor Work Units</u>	£	£	£
Output/Productive Livestock Unit	£87.2	£82.1	£100.5	Repairs & Insurance	156	185	208
				Fuel & Electricity	250	217	201
				Contract	101	89	10
				Depreciation	<u>216</u>	<u>250</u>	<u>355</u>
				<u>Total</u>	<u>723</u>	<u>741</u>	<u>774</u>

* High Profit Farms.

21.

PREDOMINANTLY SHEEP/CATTLE

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	8	12	4				
Average Acreage	201½	140¼	219				
	<u>OUTPUT</u>				<u>EXPENDITURE</u>		
	£	£	£		£	£	£
Cattle	283	315	401	Fertilizers	54	147	51
Shsep & Wool	1477	1520	1402	Rent & Rates	250	276	280
Pigs	-	12	-	Power & Machinery	320	484	412
Poultry & Eggs	225	155	68	Labour - Paid	458	351	444
Milk	-	-	-	" - Unpaid	270	428	176
<u>Total Livestock</u>	1985	2002	1871	Miscellaneous	228	303	243
				<u>Total Expenditure</u>	<u>1580</u>	<u>1989</u>	<u>1606</u>
Cereals	170	289	366				
Roots & M. Garden	165	114	9	Management & Investment Income	307	163	449
Hops & Fruit	-	4	-	Add Farmers own Labour	242	380	176
Other Crops	48	38	54	<u>Net Farm Income</u>	549	543	625
<u>Total Crops</u>	383	445	429				
Miscellaneous	127	306	174	Tenant's Capital	2982	3656	2520
<u>Total Output</u>	2495	2753	2474	Return on Capital	10.3%	4.5%	17.8%
<u>Less Purchased Feed</u>	550	537	371				
" Seed	58	64	48				
<u>Net Output</u>	<u>1887</u>	<u>2152</u>	<u>2055</u>				

* High Profit Farms.

PREDOMINANTLY SHEEP/CATTLE

EFFICIENCY STANDARDS

Year	1959/60	1960/1	1960/1*		1959/60	1960/1	1960/1*
No. Farms	8	12	4	Forage Acres/Grazing L.S.U.	1.81	1.90	2.06
Average Acreage	201½	140½	219	Adjusted Feed Acres/L.S.U.	2.25	2.40	2.62
				Livestock Output/Adj. Feed Acre	£15.6	£16.0	£16.9
System Index	72	67	57	Index of Concentrate Feed Use	-	99	85
Farm Feed Acres per 100 acres	93.8	88.8	86.0				
Livestock Units per 100 acres	59.8	53.0	44.9	Labour & Mach./£100 Net Output	£61.3	£64.4	£50.6
				Labour Cost/100 Man Work Units	£164	£186	£183
Yield Index	83	89	100	Labour Efficiency Index	109	96	98
Livestock Yield Index	79	90	101				
Crop Yield Index	-	132	138	<u>Power & Mach./1000 Tractor Work Units</u>	£	£	£
Output/Productive Livestock Unit	£34.0	£38.3	£42.4	Repairs & Insurance	67	71	50
				Fuel & Electricity	75	95	70
				Contract	51	110	179
				Depreciation	<u>91</u>	<u>142</u>	<u>90</u>
				<u>Total</u>	<u>284</u>	<u>418</u>	<u>389</u>

* High Profit Farms.

PREDOMINANTLY ARABLE

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	9	10	3				
Average Acreage	230	230½	271				
	<u>OUTPUT</u>				<u>EXPENDITURE</u>		
	£	£	£		£	£	£
Cattle	88	21	48	Fertilizers	590	283	233
Sheep & Wool	361	325	604	Rent & Rates	347	377	289
Pigs	129	249	-	Power & Machinery	867	860	733
Poultry & Eggs	27	12	-	Labour - Paid	1385	974	925
Milk	<u>255</u>	<u>279</u>	<u>536</u>	" - Unpaid	187	145	100
<u>Total Livestock</u>	860	886	1188	Miscellaneous	<u>452</u>	<u>343</u>	<u>324</u>
Cereals	1569	1830	1498	<u>Total Expenditure</u>	<u>3828</u>	<u>2982</u>	<u>2605</u>
Roots & M. Garden	1979	554	330	Management & Investment Income	331	339	857
Hops & Fruit	-	-	-	Add Farmers own Labour	188	145	100
Other Crops	<u>137</u>	<u>319</u>	<u>475</u>	<u>Net Farm Income</u>	519	484	957
<u>Total Crops</u>	3685	2703	2306	Tenant's Capital	3792	3627	2933
Miscellaneous	<u>161</u>	<u>198</u>	<u>257</u>	Return on Capital	8.7%	9.3%	29.2%
<u>Total Output</u>	4706	3787	3751				
<u>Less Purchased Feed</u>	194	221	141				
" Seed	<u>353</u>	<u>245</u>	<u>148</u>				
<u>Net Output</u>	<u>4159</u>	<u>3321</u>	<u>3462</u>				

* High Profit Farms.

PREDOMINANTLY ARABLE

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	9	10	3	Forage Acres/Grazing L.S.U.	1.89	1.44	1.89
Average Acreage	230	230½	271	Adjusted Feed Acres/L.S.U.	4.69	3.33	2.44
				Livestock Output/Adj. Feed Acre	£16.8	£21.2	£24.8
System Index	110	92	82	Index of Concentrate Feed Use	-	115	67
Farm Feed Acres' per 100 acres	37.5	29.7	45.3				
Livestock Units per 100 acres	18.8	15.7	20.4	Labour & Mach./£100 Net Output	£58.4	£59.4	£50.9
				Labour Cost/100 Man Work Units	£231	£235	£239
Yield Index	102	98	101	Labour Efficiency Index	78	76	75
Livestock Yield Index	79	81	109				
Crop Yield Index	108	99	98	<u>Power & Mach./1000 Tractor Work Units</u>	£	£	£
Output/Productive Livestock Unit	£52.7	£53.0	£61.5	Repairs & Insurance	209	194	206
				Fuel & Electricity	123	112	150
				Contract	43	51	37
				Depreciation	<u>197</u>	<u>256</u>	<u>259</u>
				<u>Total</u>	<u>572</u>	<u>613</u>	<u>652</u>

* High Profit Farms.

INTENSIVE ARABLE - MAINLY FRUIT

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	11	11	4				
Average Acreage	135	151½	111½				
	<u>OUTPUT</u>				<u>EXPENDITURE</u>		
	£	£	£		£	£	£
Cattle	196	203	--	Fertilizers	630	596	932
Sheep & Wool	370	439	493	Rent & Rates	498	484	535
Pigs	394	587	587	Power & Machinery	1612	1336	1524
Poultry & Eggs	1064	1097	1740	Labour - Paid	3790	3356	4525
Milk	--	--	--	" - Unpaid	210	255	249
<u>Total Livestock</u>	2024	2326	2820	Miscellaneous	<u>1764</u>	<u>1175</u>	<u>1402</u>
				<u>Total Expenditure</u>	<u>8504</u>	<u>7202</u>	<u>9167</u>
Cereals	657	716	479				
Roots & M. Garden	1484	1049	1798	Management & Investment Income	2604	965	3040
Hops & Fruit	8197	5309	8640	Add Farmers own Labour	183	234	249
Other Crops	(-) 4	1	114	<u>Net Farm Income</u>	2787	1199	3289
<u>Total Crops</u>	10334	7075	11031				
Miscellaneous	<u>357</u>	<u>367</u>	<u>335</u>	Tenant's Capital	6731	7648	8635
<u>Total Output</u>	12715	9768	14186	Return on Capital	38.7%	12.6%	35.2%
Less Purchased Feed	1247	1345	1639				
" Seed	<u>360</u>	<u>256</u>	<u>340</u>				
<u>Net Output</u>	<u>11108</u>	<u>8167</u>	<u>12207</u>				

* High Profit Farms.

INTENSIVE ARABLE - MAINLY FRUIT

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	11	11	4	Forage Acres/Grazing L.S. U.	0.93	1.33	1.93
Average Acreage	135	151 $\frac{1}{4}$	111 $\frac{1}{2}$	Adjusted Feed Acres/L.S.U.	1.71	2.04	2.10
				Livestock Output/Adj. Feed Acre	£23.4	£27.6	£32.1
System Index	323	271	352	Index of Concentrate Feed Use	-	75	88
Farm Feed Acres per 100 acres	29.5	33.8	27.2				
Livestock Units per 100 acres	31.0	37.7	37.9	Labour & Mach./£100 Net Output	£58.0	£65.3	£51.6
				Labour Cost/100 Man Work Units	£146	£151	£156
Yield Index	95	85	98	Labour Efficiency Index	123	118	115
Livestock Yield Index	77	88	106				
Crop Yield Index	93	84	98	<u>Power & Mach./1000 Tractor Work Units</u>	£	£	£
Output/Productive Livestock Unit	£52.4	£59.8	£76.2	Repairs & Insurance	201	140	158
				Fuel & Electricity	158	115	107
				Contract	76	57	50
				Depreciation	<u>189</u>	<u>189</u>	<u>225</u>
				<u>Total</u>	<u>624</u>	<u>501</u>	<u>540</u>

* High Profit Farms.

INTENSIVE ARABLE - MAINLY HOPS

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>		<u>1959/60</u>	<u>1960/1</u>
No. Farms	9	8			
Average Acreage	148½	157			
	<u>OUTPUT</u>			<u>EXPENDITURE</u>	
	£	£		£	£
Cattle	560	481	Fertilizers	373	384
Sheep & Wool	375	306	Rent & Rates	380	400
Pigs	486	74	Power & Machinery	938	949
Poultry & Eggs	183	108	Labour - Paid	1942	2012
Milk	<u>175</u>	<u>214</u>	" - Unpaid	394	299
Total Livestock	1779	1183	Miscellaneous	<u>745</u>	<u>905</u>
Cereals	784	965	<u>Total Expenditure</u>	<u>4772</u>	<u>4949</u>
Roots & M. Garden	99	206			
Hops & Fruit	2892	3442	Management & Investment Income	220	468
Other Crops	<u>26</u>	(-) <u>62</u>	Add Farmers own Labour	338	237
Total Crops	3801	4551	<u>Net Farm Income</u>	558	705
Miscellaneous	<u>367</u>	<u>366</u>			
Total Output	5947	6100	Tenant's Capital	4468	4714
Less Purchased Feed	789	482	Return on Capital	4.9%	9.9%
" Seed	<u>166</u>	<u>201</u>			
<u>Net Output</u>	<u>4992</u>	<u>5417</u>			

INTENSIVE ARABLE - MAINLY HOPS

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>		<u>1959/60</u>	<u>1960/1</u>
No. Farms	9	8	Forage Acres/Grazing L.S.U.	1.79	1.82
Average Acreage	148 $\frac{1}{2}$	167	Adjusted Feed Acres/L.S.U.	2.45	2.23
			Livestock Output/Adj. Feed Acre	£19.3	£16.6
System Index	173	152	Index of Concentrate Feed Use	-	79
Farm Feed Acres per 100 acres	63.6	57.9			
Livestock Units per 100 acres	42.8	35.2	Labour & Mach./£100 Net Output	£64.2	£60.4
			Labour Cost/100 Man Work Units	£148	£174
Yield Index	84	96	Labour Efficiency Index	121	103
Livestock Yield Index	78	69			
Crop Yield Index	87	108	<u>Power & Mach./1000 Tractor Work Units</u>	£	£
Output/Productive Livestock Unit	£42.9	£35.4	Repairs & Insurance	92	104
			Fuel & Electricity	140	70
			Contract	89	132
			Depreciation	<u>123</u>	<u>135</u>
			<u>Total</u>	<u>444</u>	<u>441</u>

INTENSIVE ARABLE - MIXED

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>		<u>1959/60</u>	<u>1960/1</u>
No. Farms	5	6			
Average Acreage	159 $\frac{3}{4}$	149 $\frac{3}{4}$			
	<u>OUTPUT</u>			<u>EXPENDITURE</u>	
	£	£		£	£
Cattle	128	109	Fertilizers	299	393
Sheep & Wool	543	415	Rent & Rates	425	477
Figs	1539	1625	Power & Machinery	1132	1247
Poultry & Eggs	163	148	Labour - Paid	2057	2463
Milk	—	—	" - Unpaid	442	440
<u>Total Livestock</u>	2373	2297	Miscellaneous	622	669
Cereals	1181	946	<u>Total Expenditure</u>	<u>4987</u>	<u>5694</u>
Roots & M. Garden	3675	3319	Management & Investment Income	1310	376
Hops & Fruit	542	666	Add Farmers own Labour	338	352
Other Crops	<u>140</u>	<u>32</u>	<u>Net Farm Income</u>	1648	728
<u>Total Crops</u>	5538	4963	Tenant's Capital	5269	5268
Miscellaneous	<u>202</u>	<u>217</u>	Return on Capital	24.9%	7.1%
<u>Total Output</u>	8113	7477			
Less Purchased Feed	1151	879			
" Seed	<u>665</u>	<u>528</u>			
<u>Net Output</u>	<u>6297</u>	<u>6070</u>			

INTENSIVE ARABLE - MIXED

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>		<u>1959/60</u>	<u>1960/1</u>
No. Farms	5	6	Forage Acres/Grazing L.S. U.	1.49	1.48
Average Acreage	159 $\frac{3}{4}$	149 $\frac{3}{4}$	Adjusted Feed Acres/L.S.U.	1.94	2.14
			Livestock Output/Adj. Feed Acre	£29.5	£26.8
System Index	202	193	Index of Concentrate Feed Use	-	135
Farm Feed Acres per 100 acres	35.3	38.0			
Livestock Units per 100 acres	43.3	38.7	Labour & Mach./£100 Net Output	£57.5	£69.5
			Labour Cost/100 Man Work Units	£165	£162
Yield Index	99	94	Labour Efficiency Index	108	110
Livestock Yield Index	73	86			
Crop Yield Index	108	92	<u>Power & Mach./1000 Tractor Work Units</u>	£	£
Output/Productive Livestock Unit	£47.7	£46.4	Repairs & Insurance	159	128
			Fuel & Electricity	121	94
			Contract	64	108
			Depreciation	<u>206</u>	<u>218</u>
			<u>Total</u>	<u>550</u>	<u>548</u>

MILK WITH PIGS / POULTRY

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	12	11	4				
Average Acreage	115	110 $\frac{1}{4}$	194				
		<u>OUTPUT</u>				<u>EXPENDITURE</u>	
	£	£	£		£	£	£
Cattle	415	502	450	Fertilizers	362	269	285
Sheep & Wool	48	43	26	Rent & Rates	346	367	287
Pigs	1008	1188	1277	Power & Machinery	855	900	778
Poultry & Eggs	1528	2101	1449	Labour - Paid	848	1007	1167
Milk	<u>3436</u>	<u>3522</u>	<u>3291</u>	- Unpaid	711	907	328
<u>Total Livestock</u>	6435	7356	6493	Miscellaneous	<u>561</u>	<u>666</u>	<u>503</u>
Cereals	221	295	525	<u>Total Expenditure</u>	<u>3683</u>	<u>4116</u>	<u>3348</u>
Roots & M. Garden	32	23	28				
Hops & Fruit	29	501	-	Management & Investment Income	157	654	1290
Other Crops	<u>136</u>	<u>102</u>	<u>96</u>	Add Farmers own Labour	618	773	206
<u>Total Crops</u>	418	921	649	<u>Net Farm Income</u>	775	1427	1496
Miscellaneous	<u>313</u>	<u>362</u>	<u>210</u>				
<u>Total Output</u>	7166	8639	7352	Tenant's Capital	5203	6039	5786
<u>Less Purchased Feed</u>	3162	3710	2591	Return on Capital	3.0%	10.8%	22.3%
" Seed	<u>164</u>	<u>159</u>	<u>123</u>				
<u>Net Output</u>	<u>3840</u>	<u>4770</u>	<u>4638</u>				

* High Profit Farms.

MILK WITH PIGS / POULTRY

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	12	11	4	Forage Acre/Grazing L.S.U.	2.26	1.94	2.02
Average Acreage	115	110½	194	Adjusted Feed Acres/L.S.U.	3.12	2.83	2.62
				Livestock Output/Adj. Feed Acre	£33.2	£36.0	£41.4
System Index	168	194	160	Index of Concentrate Use	-	82	90
Farm Feed Acres per 100 acres	92.2	90.2	79.3				
Livestock Units per 100 acres	68.4	73.9	61.7	Labour & Mach./£100 Net Output	£67.6	£60.3	£48.9
				Labour Cost/100 Man Work Units	£147	£142	£153
Yield Index	107	106	114	Labour Efficiency Index	122	126	117
Livestock Yield Index	107	103	113				
Crop Yield Index	91	128	135	<u>Power & Mach./1000 Tractor Work Units</u>	£	£	£
Milk Yield per Cow (Gallons)	772	760	786	Repairs & Insurance	145	140	126
Milk Sales per Cow	126	119	137	Fuel & Electricity	172	164	130
Output/Productive Livestock Unit	£98.7	£100.4	£106.6	Contract	69	56	33
				Depreciation	<u>216</u>	<u>236</u>	<u>273</u>
				<u>Total</u>	<u>602</u>	<u>596</u>	<u>562</u>

* High Profit Farms.

SHEEP/CATTLE WITH ARABLE.

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>	Year	<u>1959/60</u>	<u>1960/1</u>
No. Farms	7	9	No. Farms	7	9
Average Acreage	296 $\frac{1}{4}$	346	Average Acreage	296 $\frac{1}{4}$	346
	<u>OUTPUT</u>			<u>EXPENDITURE</u>	
	£	£		£	£
Cattle	490	583	Fertilizers	258	231
Sheep & Wool	915	764	Rent & Rates	332	350
Pigs	170	92	Power & Machinery	785	727
Poultry & Eggs	112	104	Labour - Paid	696	679
Milk	-	-	" - Unpaid	219	162
<u>Total Livestock</u>	<u>1687</u>	<u>1543</u>	Miscellaneous	<u>292</u>	<u>330</u>
Cereals	1198	1063	<u>Total Expenditure</u>	<u>2582</u>	<u>2479</u>
Roots & M. Garden	445	226	Management & Investment Income	798	187
Hops & Fruit	-	8	Add Farmers own Labour	209	155
Other Crops	<u>471</u>	<u>191</u>	<u>Total Net Farm Income</u>	<u>1007</u>	<u>342</u>
<u>Total Crops</u>	<u>2114</u>	<u>1488</u>	Tenant's Capital	4746	4554
Miscellaneous	<u>285</u>	<u>268</u>	Return on Capital	16.8%	4.1%
<u>Total Output</u>	<u>4086</u>	<u>3299</u>			
<u>Less Purchased Feed</u>	<u>502</u>	<u>457</u>			
" Seed	<u>204</u>	<u>176</u>			
<u>Net Output</u>	<u><u>3380</u></u>	<u><u>2666</u></u>			

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>		<u>1959/60</u>	<u>1960/1</u>
No. Farms	7	9	Forage Acres/Grazing L.S.U.	1.16	1.62
Average acreage	296 $\frac{1}{4}$	346	Adjusted Feed Acres/L.S.U.	1.62	2.10
			Livestock Output/Adj. Feed Acre	£21.4	£19.2
System Index	96	77	Index of Concentrate Feed Use	-	77
Farm Feed Acres per 100 acres	57.9	61.1	Labour & Mach./£100 Net Output	£52.5	£59.6
Livestock Units per 100 acres	50.1	38.9	Labour Cost/100 Man Work Units	£170	£172
			Labour Efficiency Index	105	104
Yield Index	97	96			
Livestock Yield Index	75	93	<u>Power & Mach./1000 Tractor Work Units</u>	£	£
Crop Yield Index	125	98	Repairs & Insurance	137	164
Output/Productive Livestock Unit	£33.5	£39.4	Fuel & Electricity	116	111
			Contract	116	47
			Depreciation	<u>185</u>	<u>214</u>
			<u>Total</u>	<u>554</u>	<u>536</u>

MILK WITH ARABLE

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	12	12	4				
Average Acreage	289	290	238 $\frac{1}{4}$				
	<u>OUTPUT</u>				<u>EXPENDITURE</u>		
	£	£	£		£	£	£
Cattle	491	567	976	Fertilizers	392	319	215
Sheep & Wool	59	44	7	Rent & Rates	294	298	271
Pigs	-	-	-	Power & Machinery	812	777	628
Poultry & Eggs	89	96	48	Labour - Paid	1187	1168	1067
Milk	<u>1984</u>	<u>1952</u>	<u>1859</u>	" - Unpaid	105	118	157
<u>Total Livestock</u>	2623	2659	2890	Miscellaneous	<u>367</u>	<u>452</u>	<u>365</u>
Cereals	1407	1447	1458	<u>Total Expenditure</u>	<u>3157</u>	<u>3132</u>	<u>2703</u>
Roots & M. Garden	474	560	600	Management & Investment Income	771	804	1577
Hops & Fruit	12	9	-	Add Farmers own Labour	102	115	157
Other Crops	<u>126</u>	<u>9</u>	<u>16</u>	<u>Net Farm Income</u>	873	919	1734
<u>Total Crops</u>	2019	2025	2074	Tenant's Capital	4190	4497	3788
Miscellaneous	<u>234</u>	<u>220</u>	<u>289</u>	Return on Capital	18.4%	17.9%	41.6%
<u>Total Output</u>	4876	4904	5253				
Less Purchased Feed	708	761	777				
" Seed	<u>240</u>	<u>207</u>	<u>196</u>				
<u>Net Output</u>	<u>3928</u>	<u>3936</u>	<u>4280</u>				

* High Profit Farms.

MILK WITH ARABLE

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1</u> *		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1</u> *
No. Farms	12	12	4	Forage Acres/Grazing L.S.U.	1.88	1.79	1.90
Average Acreage	289	290	238 $\frac{1}{4}$	Adjusted Feed Acres/L.S.U.	2.80	2.73	2.83
				Livestock Output/Adj. Feed Acre	£33.7	£32.8	£33.6
System Index	104	106	107	Index of Concentrate Feed Use	-	75	75
Farm Feed Acres per 100 acres	56.9	56.0	59.7				
Livestock Units per 100 acres	28.3	29.8	30.6	Labour & Mach./£100 Net Output	£54.1	£52.8	£43.3
				Labour Cost/100 Man Work Units	£186	£178	£153
Yield Index	111	111	118	Labour Efficiency Index	96	100	105
Livestock Yield Index	109	110	120				
Crop Yield Index	113	110	116	<u>Power & Mach./1000 Tractor Work Units</u>	£	£	£
Milk Yield per Cow (Gallons)	827	830	782	Repairs & Insurance	187	150	105
Milk Sales per Cow	£126	£120	£113	Fuel & Electricity	122	110	117
Output/Productive Livestock Unit	£92.5	£89.3	£93.4	Contract	43	35	11
				Depreciation	<u>204</u>	<u>222</u>	<u>172</u>
				<u>Total</u>	<u>556</u>	<u>517</u>	<u>405</u>

* High Profit Farms

MILK WITH PIGS/POULTRY AND ARABLE

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>		<u>1959/60</u>	<u>1960/1</u>
No. Farms	5	6			
Average Acreage	192½	204			
	<u>OUTPUT</u>			<u>EXPENDITURE</u>	
	£	£		£	£
Cattle	342	380	Fertilizers	362	312
Sheep & Wool	49	2	Rent & Rates	343	370
Pigs	1194	1141	Power & Machinery	911	981
Poultry & Eggs	748	757	Labour - Paid	1242	1222
Milk	<u>1697</u>	<u>2061</u>	" - Unpaid	215	213
<u>Total Livestock</u>	4030	4341	Miscellaneous	<u>484</u>	<u>627</u>
			<u>Total Expenditure</u>	<u>3557</u>	<u>3725</u>
Cereals	1344	1323			
Roots & M. Garden	242	360	Management & Investment Income	669	956
Hops & Fruit	-	-	Add Farmers own Labour	215	213
Other Crops	<u>35</u>	<u>145</u>	<u>Net Farm Income</u>	884	1169
<u>Total Crops</u>	1621	1828			
Miscellaneous	<u>408</u>	<u>447</u>	Tenant's Capital	5676	5648
<u>Total Output</u>	6059	6616	Return on Capital	11.8%	16.9%
<u>Less Purchased Feed</u>	1629	1636			
" Seed	<u>204</u>	<u>299</u>			
<u>Net Output</u>	<u>4226</u>	<u>4681</u>			

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>		<u>1959/60</u>	<u>1960/1</u>
No. Farms	5	6	Forage Acres/Grazing L.S.U.	2.15	1.79
Average Acreage	192½	204	Adjusted Feed Acres/L.S.U.	2.47	2.54
			Livestock Output/Adj. Feed Acre	£34.3	£37.8
System Index	140	145	Index of Concentrate Feed Use	-	89
Farm Feed Acres per 100 acres	62.7	59.1			
Livestock Units per 100 acres	46.0	45.4	Labour & Mach./£100 Net Output	£57.4	£52.1
			Labour Cost/100 Man Work Units	£162	£160
Yield Index	100	106	Labour Efficiency Index	110	112
Livestock Yield Index	99	102			
Crop Yield Index	99	111	<u>Power & Mach./1000 Tractor Work Units</u>	£	£
Milk Yield per Cow (Gallons)	849	836	Repairs & Insurance	113	167
Milk Sales per Cow	129	119	Fuel & Electricity	140	148
Output/Productive Livestock Unit	£85.5	£96.3	Contract	48	45
			Depreciation	<u>291</u>	<u>259</u>
			<u>Total</u>	<u>592</u>	<u>619</u>

MILK WITH SHEEP/CATTLE AND ARABLE

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	17	10	4				
Average Acreage	407½	479½	619½				
	<u>OUTPUT</u>				<u>EXPENDITURE</u>		
	£	£	£		£	£	£
Cattle	485	465	524	Fertilizers	296	232	290
Sheep & Wool	334	345	319	Rent & Rates	265	287	337
Pigs	57	83	108	Power & Machinery	549	537	508
Poultry & Eggs	62	25	11	Labour - Paid	928	943	952
Milk	<u>1450</u>	<u>1350</u>	<u>1620</u>	" - Unpaid	65	85	41
<u>Total Livestock</u>	2388	2268	2582	Miscellaneous	<u>274</u>	<u>309</u>	<u>318</u>
Cereals	940	763	953	<u>Total Expenditure</u>	<u>2377</u>	<u>2393</u>	<u>2446</u>
Roots & M. Garden	146	168	372	Management & Investment Income	640	450	1086
Hops & Fruit	-	1	-	Add Farmers own Labour	58	70	41
Other Crops	<u>112</u>	<u>78</u>	<u>125</u>	<u>Net Farm Income</u>	698	520	1127
<u>Total Crops</u>	1198	1010	1450	Tenant's Capital	3654	3844	3602
Miscellaneous	<u>150</u>	<u>191</u>	<u>210</u>	Return on Capital	17.5%	11.7%	30.1%
<u>Total Output</u>	3736	3469	4242				
Less Purchased Feed	589	501	580				
" Seed	<u>130</u>	<u>125</u>	<u>130</u>				
<u>Net Output</u>	<u>3017</u>	<u>2843</u>	<u>3532</u>				

* High Profit Farms.

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	17	10	4	Forage Acres/Grazing L.S.U.	1.95	1.90	1.95
Average Acreage	407½	479½	619½	Adjusted Feed Acres/L.S.U.	2.58	2.52	2.64
				Livestock Output/Adj. Feed Acre	£25.4	£25.1	£29.9
System Index	86	84	87	Index of Concentrate Feed Use	-	79	83
Farm Feed Acres per 100 acres	76.0	76.6	70.7				
Livestock Units per 100 acres	37.1	37.5	34.0	Labour & Mach./£100 Net Output	£52.3	£57.9	£43.1
				Labour Cost/100 Man Work Units	£169	£173	£172
Yield Index	102	97	115	Labour Efficiency Index	106	103	104
Livestock Yield Index	95	93	108				
Crop Yield Index	118	104	122	<u>Power & Mach./1000 Tractor Work Units</u>	£	£	£
Milk Yield per Cow (Gallons)	766	766	849	Repairs & Insurance	144	145	157
Milk Sales per Cow	£114	£107	£119	Fuel & Electricity	104	98	95
Output/Productive Livestock Unit	£65.8	£62.5	£77.3	Contract	39	32	26
				Depreciation	<u>146</u>	<u>150</u>	<u>138</u>
				<u>Total</u>	<u>433</u>	<u>425</u>	<u>416</u>

* High Profit Farms.

SHEEP/CATTLE WITH PIGS/POULTRY AND ARABLE

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	16	18	6				
Average Acreage	153 $\frac{1}{4}$	170	169				
		<u>OUTPUT</u>				<u>EXPENDITURE</u>	
	£	£	£		£	£	£
Cattle	402	401	356	Fertilizers	214	292	269
Sheep & Wool	558	448	570	Rent & Rates	254	314	201
Pigs	628	937	891	Power & Machinery	807	862	755
Poultry & Eggs	921	582	803	Labour - Paid	644	676	680
Milk	<u>90</u>	<u>65</u>	<u>90</u>	" - Unpaid	477	366	365
<u>Total Livestock</u>	2599	2433	2710	Miscellaneous	<u>363</u>	<u>419</u>	<u>364</u>
				<u>Total Expenditure</u>	<u>2759</u>	<u>2929</u>	<u>2634</u>
Cereals	972	1050	1327				
Roots & Market Garden	299	215	337	Management & Investment Income	440	160	872
Hops & Fruit	98	43	-	Add Farmers own Labour	433	332	262
Other Crops	230	119	43	<u>Net Farm Income</u>	873	492	1134
<u>Total Crops</u>	1599	1427	1707				
Miscellaneous	<u>380</u>	<u>439</u>	<u>260</u>	Tenant's Capital	4506	4473	5100
<u>Total Output</u>	4578	4299	4677	Return on Capital	9.8%	3.6%	17.1%
<u>Less Purchased Feed</u>	1196	1054	1040				
" Seed	<u>183</u>	<u>156</u>	<u>131</u>				
<u>Net Output</u>	<u>3199</u>	<u>3089</u>	<u>3506</u>				

* High Profit Farms.

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	16	18	6	Forage Acres/Grazing L.S.U.	1.97	1.93	1.69
Average Acreage	153 $\frac{1}{4}$	170	169	Adjusted Feed Acres/L.S.U.	2.32	2.32	2.18
				Livestock Output/Adj. Feed Acre	£23.9	£26.3	£29.3
System Index	100	105	112	Index of Concentrate Feed Use	-	93	94
Farm Feed Acres per 100 acres	72.1	60.3	58.2				
Livestock Units per 100 acres	47.5	41.3	43.8	Labour & Mach./£100 Net Output	£63.4	£64.5	£51.0
				Labour Cost/100 Man Work Units	£177	£178	£161
Yield Index	101	92	98	Labour Efficiency Index	101	101	111
Livestock Yield Index	91	90	97				
Crop Yield Index	122	96	103	<u>Power & Mach./1000 Tractor Work Units</u>	£	£	£
Output/Productive Livestock Unit	£55.9	£62.2	£65.1	Repairs & Insurance	129	150	145
				Fuel & Electricity	131	148	98
				Contract	122	139	62
				Depreciation	<u>203</u>	<u>213</u>	<u>192</u>
				<u>Total</u>	<u>585</u>	<u>650</u>	<u>497</u>

* High Profit Farms.

MIXED - MAINLY MILK

RESULTS PER 100 ACRES

Year	<u>1959/60</u>	<u>1960/61</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	14	15	5				
Average Acreages	174½	169	197				
	<u>OUTPUT</u>				<u>EXPENDITURE</u>		
	£	£	£		£	£	£
Cattle	573	547	380	Fertilizers	277	263	330
Sheep & Wool	250	125	150	Rent & Rates	313	373	431
Pigs	266	257	467	Power & Machinery	676	719	758
Poultry & Eggs	281	303	235	Labour - Paid	1133	1083	983
Milk	<u>2497</u>	<u>2583</u>	<u>3135</u>	" - Unpaid	240	276	279
<u>Total Livestock</u>	3867	3815	4367	Miscellaneous	<u>396</u>	<u>454</u>	<u>534</u>
Cereals	533	642	839	<u>Total Expenditure</u>	<u>3035</u>	<u>3168</u>	<u>3315</u>
Roots & M. Garden	78	110	174	Management & Investment Income	199	461	858
Hops & Fruit	-	2	2	Add Farmers own Labour	229	253	243
Other Crops	<u>40</u>	<u>80</u>	<u>116</u>	<u>Net Farm Income</u>	428	714	1101
<u>Total Crops</u>	571	834	1131	Tenant's Capital	4030	4367	4466
Miscellaneous	<u>241</u>	<u>339</u>	<u>554</u>	Return on Capital	4.9%	10.5%	19.2%
<u>Total Output</u>	4679	4988	6052				
<u>Less Purchased Feed</u>	1302	1223	1734				
" Seed	<u>143</u>	<u>136</u>	<u>145</u>				
<u>Net Output</u>	<u>3234</u>	<u>3629</u>	<u>4173</u>				

* High Profit Farms.

EFFICIENCY STANDARDS

Year	<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>		<u>1959/60</u>	<u>1960/1</u>	<u>1960/1*</u>
No. Farms	14	15	5	Forage Acres/Grazing L.S.U.	2.12	1.89	1.57
Average Acreage	174 $\frac{1}{4}$	169	197	Adjusted Feed Acres/L.S.U.	2.98	2.78	2.66
				Livestock output/Adj. Feed Acre	£29.9	£32.3	£33.4
System Index	101	111	134	Index of Concentrate Feed Use	-	86	85
Farm Feed Acres per 100 acres	89.6	76.2	66.7				
Livestock Units per 100 acres	43.5	42.8	48.6	Labour & Mach./£100 Net Output	£64.1	£59.2	£48.8
				Labour Cost/100 man Work Units	£184	£173	£142
Yield Index	110	106	103	Labour Efficiency Index	97	103	126
Livestock Yield Index	110	106	101				
Crop Yield Index	105	105	105	<u>Power & Mach./1000 Tractor Work Units</u>	£	£	£
Milk Yield per Cow (Gallons)	842	843	844	Repairs & Insurance	128	132	152
Milk Sales per Cow	£130	£122	£123	Fuel & Electricity	125	118	131
Output/Productive Livestock Unit	£89.3	£89.7	£87.7	Contract	77	55	64
				Depreciation	<u>207</u>	<u>229</u>	<u>181</u>
				<u>Total</u>	<u>537</u>	<u>534</u>	<u>528</u>

* High Profit Farms.

Farm business analysis, O.D.

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FARM BUSINESS STATISTICS FOR SOUTH EAST - ENGLAND

Results for the 1959 - 60 & 1960 - 61 Farming Years

PART III

Wye College Department of Agricultural Economics.

Notes on the Data required for the Calculation of Efficiency Standards, 1962/3

These notes are chiefly concerned with the preparation of data for calculation purposes beginning at the point where the data have been checked for accuracy and the necessary reconciliations have been made. A list of Efficiency Standards and the method of their calculation is given on page 47. Standard output and other factors are listed on pages 48 & 49.

Output Acres. Required for the calculation of Standard Output of Crops. Convert quantities of sales crops to acreage equivalents on the basis of yield.

	<u>Acreage Equivalent</u>		
	<u>Wheat</u>	<u>Barley</u>	etc.
Sales			
<u>plus</u> Closing Inventory	_____	_____	
Sub Total			
<u>less</u> Opening Inventory	_____	_____	
<u>Output Acres</u>	=====	=====	

Farm Feed Acreage. Adjust production for changes in stocks of feed crops and deduct output acres from the totals obtained. The acreage equivalent of home grown seed should also be deducted. Where the output acreage is a negative amount the sign should be reversed and the amount added to the total.

	<u>Acreage</u>		
	<u>Cereals</u>	<u>Roots & Market Garden</u>	<u>Other Crops</u>
Acres grown			
<u>plus</u> Opening Inventory	_____	_____	_____
Sub total			
<u>less</u> Closing Inventory	_____	_____	_____
Sub total			
<u>less</u> Output Acres (etc.)	_____	_____	_____
<u>Farm Feed Acres</u>	=====	=====	=====

Forage and Grass Acreage. This comprises total farm feed acres less the cereal element.

Adjusted Feed Acreage. The acreage equivalent of all purchased feed is added to the Farm Feed Acreage, as follows:

<u>Purchased Feed</u>	<u>Tons Used</u> *	<u>Average Equivalent</u>
Concentrates	x 0.85	
Hay	x 0.5	
Wet Grains	x 0.25	
Keep		_____
Total Purchased Feed		
<u>plus</u> Farm Feed Acreage		_____
<u>Adjusted Feed Acreage</u>		=====

* Tons Used = (Opening Stocks and Purchases) less (Closing Stocks and Sales)

Work Acreage comprises total farm acreage plus acreage double cropped, etc.

Livestock - Average Numbers. The average numbers of breeding stock, such as cows, ewes and sows should be based upon the numbers given in opening and closing inventories supplemented where possible with other records, such as census returns.

In the case of other livestock, it is necessary to estimate production taking account of animals kept for only a part of the total production period. For example, hens in lay for only five months, instead of the normal twelve months, should be reckoned as equivalent to five-twelfths the actual number of birds. The basis for adjustment is the following table of normal production:

	<u>Months</u>		<u>Months</u>
Calves under 6 months	6	Porkers	3
Baby Beef over 6 months	8	Baconers	4
Other Cattle $\frac{1}{2}$ - 1 year	6	Heavy Hogs & Gilts	5
" " 1 - 2 years	12	Store Pigs	2
" " over 2 years	6	Pullets	5
Fat Sheep over 6 months	6	Capons	3
Ewe Tegs	12	Broilers	2
		Turkeys	6
		Hens	12

1. Farm System or Organization

System Index	=	$\frac{\text{Standard Output of Crops \& Livestock}}{\text{Acres of Crops \& Grass} \times 40} \times \frac{100}{1}$
Farm Feed Acres per 100 acres	=	$\frac{\text{Farm Feed Acres}}{\text{Acres of Crops \& Grass}} \times \frac{100}{1}$
Livestock Units per 100 acres	=	$\frac{\text{Livestock Units}}{\text{Acres of Crops \& Grass}} \times \frac{100}{1}$

2. Yields

Index of all Yields	=	$\frac{\text{Total Farm Output}}{\text{Total Standard Output}} \times \frac{100}{1}$
Crop Yield Index	=	$\frac{\text{Total Crop Output}}{\text{Standard Output of Crops}} \times \frac{100}{1}$
Livestock Yield Index	=	$\frac{\text{Total Livestock Output}}{\text{Standard Output of Livestock}} \times \frac{100}{1}$
Output per Productive Livestock Unit	=	$\frac{\text{Total Livestock Output}}{\text{Total Productive Livestock Units}}$
Milk Yield per Cow	=	$\frac{\text{Total Gallons Milk Produced}}{\text{Average Number of Cows in Herd}}$
Milk Sales per Cow	=	$\frac{\text{Total Value of Milk Sold}}{\text{Average Number of Cows in Herd}}$

3. The Feed Economy

Forage Acres per Grazing Livestock Unit	=	$\frac{\text{Farm Feed Acres} - \text{less Feed Cereal Acres}}{\text{Total Grazing Livestock Units}}$
Adjusted Feed Acres per Livestock Unit	=	$\frac{\text{Adjusted Feed Acreage}}{\text{Total Livestock Units}}$
Index of Concentrate Feed Use	=	$\frac{\text{Estimated Concentrate Requirements}}{\text{Total Home-grown \& Purchased Concentrates Fed}} \times \frac{100}{1}$
Livestock Output per Adjusted Feed Acre	=	$\frac{\text{Total Livestock Output}}{\text{Adjusted Feed Acres per L.S.U.}}$

4. Labour and Machinery Use

Labour & Machinery Costs per £100 Net Output	=	$\frac{\text{Total Manual Labour \& Machinery Costs}}{\text{Total Net Output}} \times \frac{100}{1}$
Labour Cost per 100 Man Work Units	=	$\frac{\text{Total Manual Labour Cost}}{\text{Total Man Work Units Required}} \times \frac{100}{1}$
Power & Machinery Costs per 1,000 Tractor Work Units	=	$\frac{\text{Total Power \& Machinery Costs}}{\text{Total Tractor Work Units Required}} \times \frac{100}{1}$
Labour Efficiency Index	=	$\frac{16300}{\text{Labour Cost per 100 M.W.U.}}$

Factors for Calculating Standard Outputs & Man & Tractor
Work Unit Requirements, of Crops, 1962/3.

<u>Type of Crop</u>	<u>Per Acre</u> *		
	<u>Standard</u> <u>Output</u> £	<u>Man Work</u> <u>Units</u>	<u>Tractor Work</u> <u>Units</u>
<u>Cereals and Pulses</u>			
Wheat - combined	35	2	10
Barley, Beans, Oats, Mixed Corn.	25 + D.P.	2	10
Peas - threshing	35	3	10
<u>Roots, etc.</u>			
Potatoes	100	18	28
Sugar Beet	75	14	28
Feed Roots	20	13	40
Forage	20	2	5
Bare Fallow	-	1	8
<u>Field Scale Vegetables & Market Garden</u>			
Peas - canning	60	2½	10
" - picking	100	35	15
Cabbage (Transplanted)	110	22	25
Brussels Sprouts	130	32	24
Cauliflower	120	32	50
Brassicas	120	25	20
Runner Beans	200	60	20
Carrots	100	15	25
Onions	500	100	40
Celery	220	20	50
Lettuce	-	40	12
<u>Hops & Fruit</u>			
Hops - machine picked	325	45	160
Dessert Apples	250	45	30
Culinary Apples	100	35	30
Strawberries	300	40	20
Raspberries, Gooseberries	175	40	20
<u>Grass</u>			
Hay & Silage - 1st Cut	10	1½	8
" " " - 2nd Cut	10	¾	4
Grass & Clover Seed	40	1½	8
Direct Reseeding	8	¾	4
Pasture	10	¾	2

* Standard Output Factors are for use with 'Output Acres' and Work Unit Factors with 'Work Acres'.

Factors for Calculating Standard Outputs, Livestock Units,
Concentrate Requirements & Man & Tractor Work Unit Requirements of Livestock 1962/3

<u>Class of Livestock</u>	<u>Standard Output £</u>	<u>Livestock Units</u>	<u>Concentrate Requirements Tons</u>	<u>Man Work Units</u>	<u>Tractor Work Units</u>
<u>Cattle</u>					
Dairy Cows - parlour milked	110	1	-	11	8
" " - cowshed milked	110	1	-	15	8
Beef Cows - single suckling	40	1	.2	2½	5
" " - Multiple "	120	1	.8	4	7
Bulls	-	1	.5	3	5
Other Cattle - over 2 yrs. old	20	.5	.2	2	3
" " - 1 - 2 " "	25	.7	.2	3	5
" " - ½ - 1 " "	10	.3	.1	1½	2
Calves under ½ year old	23	.2	.23	2	1
Baby Beef - single suckled	35	.4	.8	3	5
" " - other	35	.4	1.2	3	5
Milk Per 1000 gallons produced	-	-	1.4	-	-
<u>Sheep</u>					
Ewes - Kent	7	.2	.02	1	1
" - Other	8	.2	.03	1	1
Rams	-	.1	.03	1	1
Ewe Tegs	4	.15	.01	1⅓	1
Fattening Sheep over ½ yr. old	3	.05	.03	1⅓	1
<u>Pigs</u>					
Sows	70	.5	1.4	4½	2½
Boars	-	.25	1	2	1½
Heavy Hogs & Breeding Gilts	15	.2	.43	3	2
Baconers	11½	.15	.3	4	2
Porkers	7½	.1	.2	4½	2
Store Pigs	3½	.05	.1	4	1½
<u>Poultry per 100</u>					
Pullets	85	.5	1.5	5	1½
Broilers	35	.2	0.4	1	1
Capons	55	.4	1.4	2	1½
Turkeys	300	1.5	4	20	4
Hens	225	2	5	20	4
<u>Horses</u>					
	-	1	1	10	-