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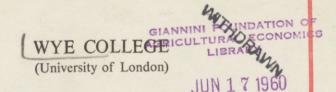
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# Farm Business Statistics for South East England

by J. D. SYKES

School grund economies & related

DEPARTMENT OF AGRICULTURAL ECONOMICS 1960

# Farm Business Statistics for South East England

A reference book for use in problems of Farm Management

Copies of this bulletin may be obtained, price 2s. 6d. post free, from: The Secretary, Wye College, Ashford, Kent.

#### FARM MANAGEMENT PUBLICATIONS

Profits & Problems of Farming in South-East England (1956)

The Recession in Farm Profits in South-East England (1958)

The Small Farm on Heavy Land (1958)

Farm Output & Expenditure Summaries (1959)

A Guide to the Feed Economy of the Dairy Farm

A Guide to Pig Production—Breeding and Rearing

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#### INTRODUCTION

For advisory and research reasons, the Economics Department of Wye College is interested in the problems and progress of the 13,000 or so farm businesses of Kent, Surrey, East & West Sussex. These farms produce annually between £90—£100m worth of milk, eggs, meat, grain, hops, fruit and vegetables. The acreage of farmed land in these counties, though shrinking because of urban growth, comprises about 1,350,000 acres, some of this being amongst the most highly farmed in the Kingdom. Although there are many highly fertile acres, the skill of the 70,000 workers and farmers largely account for its productivity. The rewards from farming, too, are not inconsiderable and some £40m are shared annually amongst the three partners in farming; about £20m being paid in wages; £3m going to landlords on the land that is rented, and the £15-17m remaining as the farmers' own profits.

Those familiar with the farming of North and East Kent and parts of West Sussex, are well aware of its excellence and generally high profitability. Those who know the whole province, however, are also aware of the far larger area of less favoured land, such as the difficult soils and small, often uneconomic, farms of the Weald and North Downs. Such farms present a continual challenge which the average occupier finds it hard to meet.

Yet substantial improvements in profitability can be effected where individuals adopt a systematic, business-like approach to their farming problems. An increasing number of farmers are becoming aware of the necessity for this. The main aim of this booklet is to assist these people in developing sound farming businesses by throwing light on the current profitability of various types and sizes of farms and on better methods of management. Regular comparisons of financial and economic results are one way of revealing the strengths and weaknesses of a farm business and to assist in this process accounts of some 200 farms scattered throughout South-East England have been analyzed. This sample represents about one in every 50-60 farms engaged in commercial food produc-The information collected has the virtue of being derived from full financial accounts and records. It should also be stressed that careful attention has been given to the reconciliation of the data and to the classification of individual results.

#### OUTPUT, EXPENDITURE, PROFITABILITY & EFFICIENCY STANDARDS 1958-59

Details of the method of classifying farms are given on pages 58-64.

On behalf of the Department of Agricultural Economics, I would like to thank all farmers, accountants, valuers and others who have spent time making available records and accounts. Thanks are also due to the members of the clerical staff of the Department and to Mr. J. H. Hooper, Mr. K. L. Oake and Mr. J. D. Sykes who are principally concerned with the Farm Management Survey Scheme.

G. P. Wibberley, Provincial Agricultural Economist.

#### MILK-SELLING FARMS

				Page
1.	Predominantly Milk under 100 acres over 100 acres	·•	••	8
2.	Milk with Pigs and/or Poultry under 100 acres over 100 acres		••	10
3.	Milk with Arable under 200 acres 200—450 acres over 450 acres	•• , 4	••	12
4.	Milk with Mixed Crops and Livestock under 150 acres 150—250 acres over 250 acres	••	••	14

THE results given on the following pages summarise the business performance of farms, of various types and sizes, in ten dairy and eleven non-dairy farm groups, for the year ending in April, 1959.

In order to facilitate the making of comparisons the average values of crop and livestock production, the main items of expenditure and measures of profitability are expressed per 100 acres of crops and grass. Indicators of efficiency are also set out in order to record the most important features of organization, yields, the feed economy, and labour and machinery use.

Since the value of any comparative management analysis depends in the first instance upon correct identification of farm type, readers are referred to page 58 for details of classification of farms according to standard output, and to page 67 for particulars of standard output calculations.

#### RESULTS FROM MILK-SELLING FARMS

Four main groups of dairy farms are distinguished and within these sub-groups have been set out according to farm size.

The four groups take the following order (in terms of profitability):

- 1. Milk with considerable arable cropping
- 2. Milk with mixed crops and livestock
- 3. Milk with important pig and/or poultry enterprises
- 4. Predominantly milk-selling.

The first two groups are made up of farms of a larger size than the other two. In addition they are usually situated on more fertile soils. It should be noted, however, that there appear to be fairly close associations between farm size and the relative importance of various farm enterprises. For example, there is a strong tendency for the proportion of crop, sheep and cattle output to increase with increasing acreage. Milk, pig and poultry production, on the other hand, become relatively less important with increasing size of farm.

Type of Farm: PRE	DOMINAN	TLY MILK	
Average Acreage	• • • • • •	$65\frac{1}{2}$	174
Size range		Under 100 acres	Over 100 acres
Number of Farms		12	12
STANDARD OUTPUT		%	% 72.3
Milk	• • • • •	75.2	
Sheep and Cattle		15.3	18.2
Pigs and Poultry	••	6.6	3.8 5.7
Crops	••	2.9	100.0
Total	••	100.0	
		Results per	
OUTPUT		£	£
Cattle		535	612
Sheep and Wool		21	37
Pigs		46	120
Poultry and Eggs		215	138
Milk	••	4239	3620
Total Livesto	ck	5056	4407
Crops		157	248
<ul> <li>Miscellaneous</li> </ul>		291	230
Total Output	••	5504	4885
Less Feed Purchas	es	1521	1041
Seed Purchase		78	97
Net Output		3905	3747
Expenditure		£	£
Fertilizers		311	340
Rent and Rates		352	326
Labour—paid		857	1259
unpaid		682	176
Power and Machin	ery	809	649
Miscellaneous	••	449	436
Total		3460	3186
Management and In	NECTMENT		
INCOME	AFOIMENT	£ 445	£ 561
Add Farmer and w	ife's labour	£ 539	£ 135
NET FARM INCOME	iio 5 labout	£ 984	£ 696
TENANT'S CAPITAL pe	r 100 acres	£3866	£4061
RETURN ON CAPITAL		. 11%	14%
		, ,	• •

N. Carlotte	Under 100 acres	Over 100 acres
a 2.	127	113
System Index	95.3	91.5
Farm Feed Acres per 100 acres		47.6
Livestock Units per 100 acres	52.2	
Percentage of Intensive Livestock	71.5	65.5
Yield Index	102	103
Livestock Yield Index	101	103
Livestock Held Hidex	92	125
Crop Yield Index	C 05 /	£ 94.9
Output per Productive L.S.U	764	799
Milk Yield per cow (galls.)	£ 120	£ 123
Milk Sales per cow	£ 120	1. 125
	2.01	1.90
Forage Acres per Grazing L.S.U.	2.01	
Farm Feed Acres per L.S.U.	1.96	2.01
Adj. Feed Acres per L.S.U.		2.66
Utilised S.E. per Farm Feed Acr	e 13.5 cwt	15.2 cwt
Milk Sales per Adj. Feed Acre	£ 43.2	£48.4
Livestock Output per Adj. Feed	•	•
Acre	£ 34.3	£ 37.0
More	•	
TY 1 TT '/	. 251	257
Work Units per man	•	£ 177
Labour Cost per 100 M.W.U.	7	2 177
Labour and Machinery Cost pe	C (1 1	£ 57.0
£100 Net Output	. £61.1	£ 57.0
		£
Power & Machinery Costs per 10	£ 000	r
Tractor Work Units:		
T. T P. Dono	irs 156	129
Licences, Insurance & Repa	163	134
Fuel & Electricity	•	46
Contractors' Charges .	. 116	141
Depreciation	. 212	171
		450
Total	. 647	450
	<del></del> .	
- 10à	garas	acres
Crops per 100 acres	acres	
Cereals	6	14
Roots		5
Hops & Fruit		
Miscellaneous	2	4
	89	77
Grass	07	

Type of Farm: MII	LK, PIGS A	AND/OR POULT	RY
Average Acreage			166
Size range		Under 100 acres	
Number of Farms		4.4	9
STANDARD OUTPUT		%	0/
Milk		49.7	% 51.8
Sheep and Cattle	••	10.5	2.0
Pigs and Poultry		36.9	38.5
Crops		2.9	7.7
Total		100.0	100.0
		Results per	100 acres
Оитрит		£	£
Cattle		391	457
Sheep and Wool		24	79
Pigs		2181	1116
Poultry and Eggs	••	1271	757
Milk	••	4508	2709
Total Livesto	ck	8375	5118
Crops	• •	296	438
Miscellaneous	••	346	185
Total Output	• •	9017	5741
Less Feed Purchase	es	3855	2077
Seed Purchase	s	78	2077 106
Not Outmed		<b>500.</b> 4	
Net Output	•••	5084	3558
Expenditure		£	£
Fertilizers		~ 249	258
Rent and Rates		430	285
Labour—paid		1089	1152
unpaid .		962	316
Power and Machine	ry	1040	671
Miscellaneous	••	826	443
Total .		4596	3125
Management and Inv	ESTMENT		
INCOME		£ 488	£ 433
Add Farmer and wife		£ 845	£ 243
		£1333	£ 676
TENANT'S CAPITAL per 1	ou acres	£6649	£3991
RETURN ON CAPITAL	• •	7%	11%
	10		

	Under 100 acres	Over 100 acres
System Index	252	143
Farm Feed Acres per 100 acres		89.1
Livestock Units per 100 acres.		52.1
Percentage of Intensive Livestoo	k 78.2	76.5
Telechtage of Intensive Divester		
Yield Index	88	97
Livestock Yield Index	87	98
	109	101
	£ 90.3	£ 98.5
	724	822
Milk Sales per cow	£ 115	£ 132
With Bales per cow	••	
Forage Acres per Grazing L.S.U	J. 1.79	2.33
Farm Feed Acres per L.S.U.	1.36	1.79
	2.66	2.97
Utilised S.E. per Farm Feed Acr		12.2 cwt
Milk Sales per Adj. Feed Acre	£ 47.1	£ 45.3
Livestock Output per Adj. Fe		
Acre	£ 35.8	£ 33.6
Acie	2000	
W	297	250
Work Units per man		£ 176
Labour Cost per 100 M.W.U. Labour & Machinery Cost p		
	£ 70.4	£ 62.1
£100 Net Output	270.4	20211
Power & Machinery Costs per 1	000 £	£
Tractor Work Units:		
Licences, Insurance & Rep	airs 146	123
Fuel & Electricity	218	158
Contractors' Charges	94	49
Depreciation	194	154
Depreciation		
Total	652	484
Total	032	
	Acres	Acres
Crops per 100 acres	4.0	26
Cereals	10	26
Roots	5	5
Hops & Fruit		
Miscellaneous	1	
Grass	84	69

Type of Farm: MILK Average Acreage		1291	335	C001
Size range		under 200	200-449	6091
	• •	acres	acres	over 449
Number of Farms		11	10	acres 9
STANDARD OUTPUT		%		-
Milk		50.8	% 41.7	33.0
Sheep and Cattle		14.1	19.9	21.2
Pigs and Poultry		4.5	2.5	3.2
Crops		30.6	35.9	42.6
Total		100.0	100.0	100.0
_		Res	ults per 100 a	
Оитрит		£	£	£
Cattle		643	429	402
Sheep and Wool	• •	1	130	174
Pigs	• •	5		57
Poultry and Eggs Milk	• •	146	108	60
WHIK	• •	2793	1735	1168
Total Livestock		3588	2402	1061
Crops	• •		2402	1861
Miscellaneous	• •	1789	1624	1894
Miscenaneous	• •	307	213	172
Total Output		5684	4239	3927
Less Feed Purchases	• •	721	429	
Seed Purchases	••	186	429 190	349 183
	••		170	103
Net Output		4777	3620	3395
- -				
EXPENDITURE		£	£	£
Fertilizers		388	311	316
Rent and Rates	• •	311	252	262
Labour—paid	• •	1332	1037	1099
unpaid	• •	240	_80	25
Power and Machinery Miscellaneous	• •	887	750	539
iviiscenaneous	• •	545	298	255
Total		3703	2728	2406
<i></i>	• •	3103	2120	2496
MANAGEMENT AND INVE	ST-			
MENT INCOME		£1074	£ 892	£ 899
Add Farmer and wi	fe's		~ 0/2	2 0//
labour		£ 230	£ 57	£ 25
NET FARM INCOME		£1304	£ 949	£ 924
TENANT'S CAPITAL per	100			
acres	• •	£4223	£3994	£3337
RETURN ON CAPITAL	• •	25%	22 %	27%
		12		

	-		
	under 200	200-449	over 449
	acres	acres.	acres
Cristom Inday	117	97	92
System Index		61.9	59.0
Farm Feed Acres per 100 acres	35.6	31.0	27.5
Livestock Units per 100 acres	33.0	51.0	27.5
Percentage of Intensive Live-	63.9	51.3	44.8
stock	03.9	31.3	-11.0
	115	102	98
Yield Index	113	95	89
Livestock Yield Index		112	111
Crop Yield Index	120	£ 79.2	£ 68.9
Output per Productive L.S.U.	£103.5	765	730
Milk Yield per cow (galls.)	874	£ 115	£ 105
Milk Sales per cow	£ 133	£ 113	£ 103
Forage Acres per Grazing	1.65	1 00	2.09
L.S.U.	1.65	1.80	2.22
Farm Feed Acres per L.S.U.	1.88	2.07	
Adj. Feed Acres per L.S.U.	2.49	2.51	2.62
Utilised S.E. per Farm Feed	477.0	15.44	140
Acre	17.3 cwt	15.4 cwt	14.8 cwt
Milk Sales per Adj. Feed Acre	£ 56.1	£ 47.0	£ 43.3
Livestock Output per Adj.		0.01.7	6 07 4
Feed Acre	£ 43.2	£31.7	£27.4
		0.50	225
Work Units per man	239	258	225
Labour Cost per 100 M.W.U.	. £ 186	£ 174	£ 192
Labour & Machinery Cost			0.71.0
per £100 Net Output	£ 52.6	£ 51.8	£ 51.8
Power & Machinery Costs			
per 1000 Tractor Work			
Units:	£	£	£
Licences, Insurance &	5		1.0
Repairs	170	157	120
Fuel and Electricity	. 144	127	108
Contractors' Charges	. 54	46	29
Depreciation	200	188	128
p			
Total	. 568	518	385
Crops per 100 acres	acres	acres	acres
Cereals	. 36	38	41
Roots	. 6	7	6
Hops & Fruit	. 1	1	_
Miscellaneous .	. 4	. 7	3
Grass	53	47	50
G1433	•	* *	•

Average Acreage   97   190½   451½   Size range   under 150   150-250   over 250   acres   a	Type of Farm: MILK	WITE	H MIXED	CROPS &	LIVESTOCK
Number of Farms   10   13   9	Average Acreage		97	1901	4511
Number of Farms	Size range				*
Number of Farms   10					
STANDARD OUTPUT         %         %         %           Milk          43.0         39.5         36.5           Sheep and Cattle          16.5         24.3         23.9           Pigs and Poultry          23.0         19.2         13.4           Crops          17.5         17.0         26.2           Total          100.0         100.0         100.0           Results per 100 acres           £         £         £         £           Cattle          474         538         452           Sheep and Wool          135         287         225           Pigs          412         410         257           Poultry and Eggs          647         450         312           Milk          2476         1908         1418           Total Livestock         4144         3593         2664           Crops          890         788         1203           Miscellaneous          338         180         136           Total Output	Number of Farms			- <del>-</del>	
Milk        43.0       39.5       36.5         Sheep and Cattle        16.5       24.3       23.9         Pigs and Poultry        23.0       19.2       13.4         Crops        17.5       17.0       26.2         Total        100.0       100.0       100.0         Results per 100 acres         £       £       £       £         Cattle        474       538       452         Sheep and Wool        135       287       225         Pigs        412       410       257         Poultry and Eggs        647       450       312         Milk        2476       1908       1418         Total Livestock       4144       3593       2664         Crops        890       788       1203         Miscellaneous        338       180       136         Total Output       5372       4561       4003         Less Feed Purchases       1439       1089       819         Seed Purchases	STANDARD OUTPUT		0/		_
Sheep and Cattle				30°5	26.5
Pigs and Poultry       23.0       19.2       13.4         Crops        17.5       17.0       26.2         Total        100.0       100.0       100.0         Results per 100 acres         £       £       £       £       £         Cattle        474       538       452         Sheep and Wool        135       287       225         Pigs        412       410       257         Poultry and Eggs       647       450       312         Milk        2476       1908       1418         Total Livestock       4144       3593       2664         Crops        890       788       1203         Miscellaneous        338       180       136         Total Output       5372       4561       4003         Less Feed Purchases       1439       1089       819         Seed Purchases       1439       1089       819         Seed Purchases       133       171       138         Net Output        3800 </td <td></td> <td>••</td> <td></td> <td></td> <td></td>		••			
Crops        17.5       17.0       26.2         Total        100.0       100.0       100.0         Results per 100 acres         £       £       £       £       £         Cattle        474       538       452         Sheep and Wool        135       287       225         Pigs        412       410       257         Poultry and Eggs        647       450       312         Milk        2476       1908       1418         Total Livestock       4144       3593       2664         Crops        890       788       1203         Miscellaneous        338       180       136         Total Output       5372       4561       4003         Less Feed Purchases       1439       1089       819         Seed Purchases	Pigs and Poultry				
Total					
Results per 100 acres					
OUTPUT         £ <td>••</td> <td>••</td> <td></td> <td></td> <td></td>	••	••			
Cattle	OUTBUT		r Kesi		
Sheep and Wool   135   287   225     Pigs					
Pigs          412         410         257           Poultry and Eggs          647         450         312           Milk          2476         1908         1418           Total Livestock          4144         3593         2664           Crops          890         788         1203           Miscellaneous          338         180         136           Total Output          5372         4561         4003           Less Feed Purchases          1439         1089         819           Seed Purchases          133         171         138           Net Output          3800         3301         3046           Expenditure         £         £         £         £           Fertilizers          289         280         221           Rent and Rates          284         305         250           Labour—paid          940         998         1141           unpaid          488         195         81		• •			
Poultry and Eggs         647         450         312           Milk          2476         1908         1418           Total Livestock          4144         3593         2664           Crops          890         788         1203           Miscellaneous          338         180         136           Total Output          5372         4561         4003           Less Feed Purchases          1439         1089         819           Seed Purchases          133         171         138           Net Output          3800         3301         3046           EXPENDITURE         £         £         £         £           Fertilizers          289         280         221           Rent and Rates          284         305         250           Labour—paid          940         998         1141           unpaid          488         195         81           Power and Machinery          841         725         559           Miscellaneous	Pige	• •			
Milk          2476         1908         1418           Total Livestock          4144         3593         2664           Crops           890         788         1203           Miscellaneous          338         180         136           Total Output          5372         4561         4003           Less Feed Purchases          1439         1089         819           Seed Purchases          133         171         138           Net Output          3800         3301         3046           Expenditure         £         £         £         £           Fertilizers          289         280         221           Rent and Rates          284         305         250           Labour—paid          940         998         1141           unpaid          488         195         81           Power and Machinery          841         725         559           Miscellaneous          439         323	Poultry and Fage	• •			
Total Livestock         4144         3593         2664           Crops          890         788         1203           Miscellaneous          338         180         136           Total Output          5372         4561         4003           Less Feed Purchases          1439         1089         819           Seed Purchases          133         171         138           Net Output          3800         3301         3046           Expenditure         £         £         £         £           Fertilizers          289         280         221           Rent and Rates          284         305         250           Labour—paid          940         998         1141           unpaid         488         195         81           Power and Machinery         841         725         559           Miscellaneous          439         323         270           Total          3281         2826         2522           MANAGEMENT AND INVEST-MENT INCOME <td< td=""><td></td><td>• •</td><td></td><td></td><td></td></td<>		• •			
Crops       890       788       1203         Miscellaneous       338       180       136         Total Output       5372       4561       4003         Less Feed Purchases       1439       1089       819         Seed Purchases       133       171       138         Net Output       3800       3301       3046         EXPENDITURE       £       £       £         Fertilizers       289       280       221         Rent and Rates       284       305       250         Labour—paid       940       998       1141         unpaid       488       195       81         Power and Machinery       841       725       559         Miscellaneous       439       323       270         Total       3281       2826       2522         MANAGEMENT AND INVEST- MENT INCOME       £ 519       £ 475       £ 524         Add Farmer and wife's labour       £ 864       £ 628       £ 567         TENANT'S CAPITAL per 100 acres       £ 864       £ 628       £ 567         TENANT'S CAPITAL       11%       12%       14%		• •	2470	1908	1418
Miscellaneous	Total Livestock		4144	3593	2664
Miscellaneous       338       180       136         Total Output       5372       4561       4003         Less Feed Purchases       1439       1089       819         Seed Purchases       133       171       138         Net Output       3800       3301       3046         EXPENDITURE       £       £       £         Fertilizers       289       280       221         Rent and Rates       284       305       250         Labour—paid       940       998       1141         unpaid       488       195       81         Power and Machinery       841       725       559         Miscellaneous       439       323       270         Total       3281       2826       2522         MANAGEMENT AND INVEST-MENT INCOME       £ 519       £ 475       £ 524         Add Farmer and wife's labour       £ 345       £ 153       £ 43         NET FARM INCOME       £ 864       £ 628       £ 567         TENANT'S CAPITAL per 100       acres       £ 4534       £4028       £3801         RETURN ON CAPITAL       11%       12%       14%	Crops		890	788	1203
Total Output	Miscellaneous				
Less Feed Purchases        1439       1089       819         Seed Purchases        133       171       138         Net Output        3800       3301       3046         Expenditure       £       £       £       £         Fertilizers        289       280       221         Rent and Rates        284       305       250         Labour—paid        940       998       1141         unpaid        488       195       81         Power and Machinery        841       725       559         Miscellaneous        439       323       270         Total        3281       2826       2522         MANAGEMENT AND Invest-MENT Income        £       519       £       475       £       524         Add Farmer and wife's labour        £       345       £       153       £       43         NET FARM Income        £       864       £       628       £       567         TENANT'S CAPITAL per 100					<del></del>
Seed Purchases       133       171       138         Net Output        3800       3301       3046         EXPENDITURE       £       £       £       £         Fertilizers        289       280       221         Rent and Rates        284       305       250         Labour—paid        940       998       1141         unpaid        488       195       81         Power and Machinery        841       725       559         Miscellaneous        439       323       270         Total        3281       2826       2522         MANAGEMENT AND INVEST-MENT INCOME        £ 519       £ 475       £ 524         Add Farmer and wife's labour        £ 345       £ 153       £ 43         NET FARM INCOME        £ 864       £ 628       £ 567         TENANT'S CAPITAL per 100       acres        £4534       £4028       £3801         RETURN ON CAPITAL        11%       12%       14%	- ·	• •		4561	4003
Net Output       . 3800       3301       3046         EXPENDITURE       £       2520       2500       Labour—paid        488       195       81       Power and Machinery        841       725       559       Miscellaneous        270	Less Feed Purchases		1439	1089	819
EXPENDITURE £ £ £ £ £ Fertilizers	Seed Purchases	• •	133	171	138
EXPENDITURE £ £ £ £ £ Fertilizers	Net Outnut		3800	2201	2046
Fertilizers	riei Guipui	••		5501	3040
Fertilizers	Expenditure		£	£	
Rent and Rates        284       305       250         Labour—paid        940       998       1141         unpaid        488       195       81         Power and Machinery        841       725       559         Miscellaneous        439       323       270         Total        3281       2826       2522         MANAGEMENT AND INVEST-MENT INCOME        £ 519       £ 475       £ 524         Add Farmer and wife's labour        £ 345       £ 153       £ 43         NET FARM INCOME        £ 864       £ 628       £ 567         TENANT'S CAPITAL per 100       acres        £ 4534       £4028       £3801         RETURN ON CAPITAL        11%       12%       14%	Fertilizers				
Labour—paid 940 998 1141 unpaid 488 195 81 Power and Machinery 841 725 559 Miscellaneous 439 323 270  Total 3281 2826 2522  MANAGEMENT AND INVEST- MENT INCOME £ 519 £ 475 £ 524  Add Farmer and wife's labour £ 345 £ 153 £ 43 NET FARM INCOME £ 864 £ 628 £ 567 TENANT'S CAPITAL per 100 acres £4534 £4028 £3801 RETURN ON CAPITAL 11% 12% 14%	Rent and Rates				
unpaid        488       195       81         Power and Machinery        841       725       559         Miscellaneous        439       323       270         Total        3281       2826       2522         MANAGEMENT AND INVEST-MENT INCOME        £ 519       £ 475       £ 524         Add Farmer and wife's labour        £ 345       £ 153       £ 43         NET FARM INCOME        £ 864       £ 628       £ 567         TENANT'S CAPITAL per 100       acres        £4534       £4028       £3801         RETURN ON CAPITAL        11%       12%       14%	Labour—paid		940		
Power and Machinery 841 725 559  Miscellaneous	unpaid				
Miscellaneous	Power and Machinery		841		
Total        3281       2826       2522         MANAGEMENT AND INVEST-MENT INCOME        £ 519       £ 475       £ 524         Add Farmer and wife's labour        £ 345       £ 153       £ 43         NET FARM INCOME        £ 864       £ 628       £ 567         TENANT'S CAPITAL per 100       acres        £4534       £4028       £3801         RETURN ON CAPITAL        11%       12%       14%					
MANAGEMENT AND INVEST-  MENT INCOME £ 519 £ 475 £ 524  Add Farmer and wife's  labour £ 345 £ 153 £ 43  NET FARM INCOME £ 864 £ 628 £ 567  TENANT'S CAPITAL per 100  acres £4534 £4028 £3801  RETURN ON CAPITAL 11% 12% 14%					
Management and Invest-  Ment Income £ 519 £ 475 £ 524  Add Farmer and wife's  labour £ 345 £ 153 £ 43  Net Farm Income . £ 864 £ 628 £ 567  Tenant's Capital per 100  acres £4534 £4028 £3801  Return on Capital 11 % 12% 14%	Total		3281	2826	2522
MENT INCOME £ 519 £ 475 £ 524  Add Farmer and wife's labour £ 345 £ 153 £ 43  NET FARM INCOME £ 864 £ 628 £ 567  TENANT'S CAPITAL per 100 acres £4534 £4028 £3801  RETURN ON CAPITAL 11% 12% 14%			-		
Add       Farmer and wife's         labour        £ 345       £ 153       £ 43         NET FARM INCOME        £ 864       £ 628       £ 567         TENANT'S CAPITAL per 100       acres        £4534       £4028       £3801         RETURN ON CAPITAL        11 %       12 %       14 %		ST-			
labour        £ 345       £ 153       £ 43         NET FARM INCOME        £ 864       £ 628       £ 567         TENANT'S CAPITAL per 100       acres        £4534       £4028       £3801         RETURN ON CAPITAL        11 %       12 %       14 %		··· fe's	£ 519	£ 475	£ 524
NET FARM INCOME £ 864 £ 628 £ 567  TENANT'S CAPITAL per 100  acres £4534 £4028 £3801  RETURN ON CAPITAL 11% 12% 14%	1 1	ic s	£ 3/15	£ 152	C 42
TENANT'S CAPITAL per 100  acres £4534 £4028 £3801  RETURN ON CAPITAL 11% 12% 14%		••			
acres £4534 £4028 £3801 RETURN ON CAPITAL 11% 12% 14%			<i>~</i> 00 <del>1</del>	£ 028	£ 30/
RETURN ON CAPITAL 11% 12% 14%			f4534	£4028	£2901
, , , , , , , , , , , , , , , , , , , ,	_				
14	OM OM TIME	• •		12/0	14 %
			14		

	under 150 acres	150-250 acres	over 250 acres
	****		
System Index Farm Feed Acres per 100	129	115	100
acres	68.8	78.9	75.6
Livestock Units per 100 acres	46.5	45.5	35.8
Percentage of Intensive Live-			
stock	63.4	54.7	48.6
Yield Index	97	96	97
Livestock Yield Index	96	94	95
Crop Yield Index	98	113	103
Output per Productive L.S.U.	£ 90.9	£82.9	£ 77.3
Milk Yield per cow (galls.)	814	771	805
Milk Sales per cow	£ 125	£ 116	£ 118
<b>1</b>			
Forage Acres per Grazing			
L.S.U	1.69	1.97	2.11
Farm Feed Acres per L.S.U.	1.55	1.86	2.17
Adj. Feed Acres per L.S.U.	2.45	2.62	2.86
Utilised S.E. per Farm Feed	2.13	2.02	2.00
Acres	16.5 cwt	15.2 cwt	13.0 cwt
Milk Sales per Adj. Feed Ac.	£ 51.1	£ 45.9	£ 42.7
Livestock Output per Adj.	231.1	2 13.5	~ 12.7
	£ 36.8	£31.7	£ 27.1
Feed Acre	2 30.0	251.7	227.1
Work Units per Man	249	254	250
Labour Cost per 100 M.W.U.	£ 180	£ 172	£ 176
Labour & Machinery Cost	2 100	2 172	2 170
per £100 Net Output	£ 60.6	£ 58.3	59.4
Power & Machinery Costs	2 00.0	2 30.3	37.1
per 1000 Tractor Work			
Units:	£	£	£
	£		£
	136	150	123
Repairs	142	126	103
Fuel & Electricity	105	70	23
Contractors' Charges		177	153
Depreciation	182	1//	133
$T \sim 1$	565	523	402
Total	565	323	402
Crops per 100 acres:	acres	acres	acres
Cereals	25	28	31
Roots	8	5	6
Hops and Fruit		1	1
Miscellaneous	2	1	3
Grass	65	65	59
	1.5		

#### NON-MILK-SELLING FARMS

					Page
1.	Predominantly Livestock				
	Mainly Sheep and/or Cattle Mainly Pigs and/or Poultry Mixed Livestock	••	••	••	18
2.	Mixed Cropping and Stocking				20
	With Mixed Livestock				
	With Livestock Mainly Sheep a	nd/or Ca	ttle	÷	
3.	Predominantly Arable		• •		22
	With Mixed Livestock				
					,
4.	Intensive Arable	• •	• •	• •	24
	Hops and Fruit with Mixed Liv Mainly Fruit	estock			
	Mainly Market Garden				

#### RESULTS FROM NON-MILK-SELLING FARMS

Four main groups of farms are distinguished here, within which further type sub-groups are set out. In order of profitability, the groups take the following order:—

- 1. Intensive arable farms producing mainly hops, fruit or market garden crops.
- 2. Predominantly arable farms.
- 3. Farms with mixed crops and livestock.
- 4. Predominantly livestock farms.

Within the last group, in particular, the types of livestock have an important influence on the profitability of sub-groups. As in the case of dairy farms, there is a close relationship between size of farm and type of production. Thus pig and poultry production tends to be associated with the smaller holdings and cattle and sheep production with the larger, mainly grassland, farms. Similarly, the smaller arable farms mainly produce intensive sale crops, whilst on the larger ones cereals are a more important source of income.

Type of Farm:	PREDOMINA	ANTLY	LIVESTOCK
---------------	-----------	-------	-----------

Type of Farm: PREDO	IVII	MANILI L	IVESTOCK	
	i	Mainly Sheep	Mainly Pigs	Mixed
7		and/or Cattle		Livestock
Average Acreage		216	$71\frac{1}{2}$	72
•	• •			25-140
Size range			53-129	
		acres	acres	acres
Number of Farms		5	5	8
STANDARD OUTPUT:		%	%	%
Shaan and Cattle		88.7	18.4	48.8
Sheep and Cattle	• •		72.7	42.2
Pigs and Poultry	• •	5.9		
Crops	• •		8.9	9.0
Total		100.0	100.0	100.0
	R	esults per 100	acres	
Оитрит	1,,	£	£	£
		353	851	1182
Cattle	• •	20.42	430	
Sheep and Wool	•			668
Pigs			2523	493
Poultry and Eggs	•	150	1817	1444
•				
Total Livestock		. 2548	5621	3787
Crans		. 196	638	334
Crops	•	121	309	415
Miscellaneous	•	, 131	309	413
T . 10		2075	(5(0)	4526
Total Output	•	. 2875	6568	4536
Less Feed Purchases		. 596	2794	1937
Seed Purchases	•	. 37	139	50
Net Output		. 2242	3635	2549
1100 Guipus	•			
Expenditure		£	£	£
Fertilizers		70	208	137
	•	257	293	279
Rent and Rates	•			
Labour—paid	•		657	382
unpaid	•		815	803
Power and Machinery			905	588
Miscellaneous		. 228	425	320
Total		. 1564	3303	2509
10000				
MANAGEMENT AND INV	FST	_		
MENT INCOME	LUX	. £ 678	£ 332	£ 40
	ife,		JJ2	<b>~</b> ∃0
		C 140	£ 704	£ 804
labour	•			
NET FARM INCOME			£1036	£ 844
TENANT'S CAPITAL per	10			
acres			£4530	£3813
RETURN ON CAPITAL		. 21%	7%	1 %
		10	, •	, 0

		Mainly Pigs and/or Poultry	
System Index Farm Feed Acres per 100	91	173	149
acres Livestock Units per 100 acres Percentage of Intensive	86.7	80.7 66.3	86.3 71.2
Livestock	2.1	60.5	29.3
Yield Index Livestock Yield Index Crop Yield Index Output per Productive L.S.U	79 78 91 £ 37.7	92 90 151 £84.9	69 69 82 £ 49.5
Forage Acres per Grazing L.S.U Farm Feed Acres per L.S.U. Adj. Feed Acres per L.S.U. Utilised S.E. per Farm Feed	1.32 1.36 1.88	2.07 1.36 2.60	1.63 1.34 2.09
Acre Livestock Output per Adj. Feed Acre	22.7 cwt £ 19.8	14.8 cwt £ 33.4	19.1 cwt £ 23.8
Work Units per man Labour Cost per 100 M.W.U Labour and Machinery Cost per £100 Net Output	314 . £ 165 . £ 44.8	246 £ 180 £ 64.3	302 £ 144 £ 66.6
Power and Machinery Costs per 1000 Tractor Work Units:  Licences, Insurance and Repairs Fuel & Electricity	£	£ 147 167	£ 88 112
Contractors' Charges Depreciation	80	158 178	77 107
Total	310	650	384
Crops per 100 acres Cereals	acres 8	acres 44	acres 13
Roots Hops and Fruit Miscellaneous	<u>2</u> 	$\frac{1}{2}$	2 3 2
Grass	90	53	80

#### Type of Farm: MIXED CROPPING & STOCKING

			1	Mixed Livestock	Livestock Mainly Sheep and/or Cattle
Average Acreage				$186\frac{1}{2}$	284
Size range			59	-407 acres	69-540 acres
Number of Farms				9	7
				0/	0/
STANDARD OUTPUT Sheep and Cattle			,	% 34.6	63.5
Pigs and Poultry	••	• •	• •	32.9	4.8
Crops	• •	• •	• •	32.5	31.7
Total	••		• •	100.0	100.0
	D 14	100			
Оитрит	Resuits	per 100	acres	£	£
Cattle				628	642
Sheep and Wool	• •	••	• •	546	1186
Pigs	• •		••	513	6
Poultry and Eggs	••	••		712	86
Tatal Liverte	-1-			2399	1920
Total Livesto	ск	• •	• •		
Crops	• •	• •	• •	1619	1095
Miscellaneous	• • •	• •	• •	326	218
Total Output		• •		4344	3233
Less Feed Purchase	es ·	• •		855	272
Seed Purchase	es	••		173	123
Net Output	• •	• •	• •	3316	2838
_					
Expenditure				£	£
Fertilizers	• •	• •	• •	253	184
Rent and Rates	• •	• •	• •	243 729	270
Labour—paid	• •	• •	• •	337	478
unpaid	• •	• •	• •	337 718	327
Power and Machine	er y	• •	• •	332	647 261
Miscellaneous	• •	• •	• •	332	201
Total	• •	••	••	2612	2167
Management and Inv	ESTMENT	INCOME		£ 704	£ 671
Add Farmer and wi	fe's lahoi	11	• •	£ 290	£ 278
NET FARM INCOME			• •	£ 994	£ 949
TENANT'S CAPITAL per	· 100 acre	 es	• •	£4334	£4032
RETURN ON CAPITAL			• •	16%	17%
TELIÇILI ON CINTIND	• •	••	• •	- 0 / 0	* . / 0

				Mixed Livestock	Livestock Mainly Sheep and/or Cattle
System Index Farm Feed Acres policy Livestock Units per Percentage of Intention	100 acres	• •	••	107 65.9 44.0 26.7	78 75.9 47.1 2.3
Yield Index Livestock Yield Ind Crop Yield Index Output per Product			•••	92 81 111 £ 54.8	98 91 111 £ 42.4
Forage Acres per G Farm Feed Acres per Adj. Feed Acres per Utilised S.E. per Fa Livestock Output per	er L.S.U. : L.S.U. rm Feed A	 Acre		1.99 1.69 2.22 18.4 cv £ 25.5	1.65 1.76 1.98 vt 19.3 cwt £ 21.6
Work Units per ma Labour Cost per 10 Labour & Machine Output	0 M.W.U.		  Net	256 £ 170 £ 55.6	237 £ 183 £ 53.3
Power and Machin Tractor Work Un	ery Costs	per 100	00	£	£
Licences, Insura Fuel & Electric Contractors' Cl Depreciation	ity	pairs  	•••	116 102 56 205	117 112 48 249
20	••	••	••		
Crops per 100 acres				acres	acres
Cereals				42	27
Roots	••	••		. 7	6
Hops & Fruit	•.•	• •		_	
Miscellaneous	• •	• •	• •	6	2
Grass	• •	••		45	65

#### Type of Farm: PREDOMINANTLY ARABLE

•				With Mixed Livestock
Average Acreage				$328\frac{1}{2}$
Size range				127-1015 acres
Number of Farms	• •	• •	• •	8
Number of Farms	• •	• •	• •	O ,
STANDARD OUTPUT				%
Sheep and Cattle				24.4
Pigs and Poultry				10.5
Crops		• •	•	65.1
Total	• •	••	• •	100.0
			R	esults per 100 acres
Оитрит				£
Cattle				230
Sheep and Wool		••		524
Pigs				277
Poultry and Eggs	• •	• •		78
Total Livesto	ck			1109
Crops				3036
Miscellaneous		• •	• •	193
11115001141110045	••	• •	••	
Total Output		• •		4338
Less Feed Purchas	es			230
Seed Purchase	es	• •		358
W . O				27.50
Net Output	• •	• •	• •	3750
Expenditure				£
Fertilizers				266
Rent and Rates			٠.,	322
Labour—paid	• •			919
unpaid	• •	• • •		146
Power and Machin	ery	• •	• •	756
Miscellaneous	• •	• •	• •	346
Total	••	• •		2755
Management and In	VESTMENT	INCOME	ı	£ 995
Add Farmer and wife		THEOME	• • •	£ 139
NET FARM INCOME			• •	£1134
TENANT'S CAPITAL pe	r 100 acre	es	• •	£3647
RETURN ON CAPITAL				27%

# With Mixed Livestock 95

System Index				95
Farm Feed Acres per	100 acr	es		47.1
Livestock Units per 1	00 acres			23.8
Percentage of Intensiv				23.6
-				
Yield Index				109
Livestock Yield Index	(			90
Crop Yield Index				119
Output per Productiv	e L.S.U			£ 54.4
• •				
Forage Acres per Gra	azing L.S	S.U.		1.97
Farm Feed Acres per				2.31
Adj. Feed Acres per				2.66
Utilised S.E. per Fari		Acre		17.7 cwt
Livestock Output per				£21.4
	<b>J</b> · -			
Work Units per man				244
Labour Cost per M.V				£ 181
Labour & Machiner		per £100	Net	
Output				£ 50.4
	_			
Power & Machinery Tractor Work Unit	Costs pe ts :	er 1,000		£
Licences, Insurar	nce & R	enairs		151
Fuel & Electricit				106
Contractors' Cha		• •		29
Depreciation		••		198
2 opioonumon	••	••	• •	
Total				484
10141	••	••	••	
- 100				
Crops per 100 acres				acres
Cereals		••	• •	42
Roots	• •	• •		12
Hops & Fruit				· ·
Miscellaneous				13
Grass		• •		33

#### Type of Farm: INTENSIVE ARABLE

	H	lops & Fruit	M Fruit	larket Garden and Vegetables
Average Acreage		$162\frac{3}{4}$	164 <del>1</del>	$12\frac{1}{4}$
Size range		5-340 acres 4	-	-
Number of Farms	5.	9		*
	• •	•	6	4
STANDARD OUTPUT		%	%	%
Sheep and Cattle	• •	21.4	24.3	
Pigs and Poultry	• •	12.8	9.2	5.6
Crops Total	• •	65.8	66.5	94.4
Total	• •	100.0	100.0	100.0
•		Results per	100 acres	Per acre
OUTPUT		£	£	£
Cattle	• •	443	283	
Sheep and Wool	• •	480	716	
Pigs Poultry and Eggs	• •	694	610	
Toutiny and Eggs	••	194	117	
Total Livestock		1811	1726	
Crops		5054	4305	847
Miscellaneous		291	207	. 17
				<del></del> ;
Total Output	• •	7156	6238	864
Less Feed Purchases		820	689	2
Seed Purchases	• •	228	243	18
Not Outnot		(100	5206	0.44
Net Output	• •	6108	5306	844
EXPENDITURE		<u> </u>	£	<u> </u>
Fertilizers		£ 470	344	£ 46
Rent and Rates	• •	358	262	46 12
Labour—paid	• •	2398	1714	238
unpaid	• •	356	441	120
Power and Machinery		990	928	228
Miscellaneous		953	618	176
Total	• •	5525	4307	820
MANAGEMENT AND INVESTME	NT	-		Per Acre
INCOME			£ 999	£ 24
Add Farmer and wife's labour	r	£ 304	£ 323	£ 120
NET FARM INCOME			E1322	£ 144
TENANT'S CAPITAL per 100 acr	es		E4465	£ 619
RETURN ON CAPITAL	• •	13%	22 %	4%

			Hops &	Fruit Fruit	t
System Index			. 194	163	}
Farm Feed Acres pe	r 100 acres	•	. 53.9		
Livestock Units per			. 45.6	37.2	)
Percentage of Intensi			. 23.2	16.9	)
-					
Yield Index			. 87	86	<b>,</b>
Livestock Yield Inde	x		. 67	81	
Crop Yield Index	••		. 98	94	ļ
Output per Producti	ve L.S.U.		. £40.1	£ 45.3	3
			1.66	1 1 2	
Forage Acres per Gi			. 1.66		
Farm Feed Acres pe		• • •	. 1.38		
Adj. Feed Acres per		••,	. 1.92		
Utilised S.E. per Fai					2 cwt
Livestock Output pe	r Adj. Feed	d Acre .	£ 22.7	£ 26.9	,
Works Units per ma	n		. 318	3 280	)
Labour Cost per 100			. £ 147		
Labour & Machine			et		
Output	••		£ 61.3	£ 59.4	1
Power & Machinery	Costs per 1	000 Tracto	ır		
Work Units:	Costs per 1		£	£	
Licences, Insura		epairs .	. 86		
Fuel and Electri			. 145		
Contractors' Ch	arges	· · ·	. 80		
Depreciation	• •	• •	. 166	5 133	3
T-4-1			. 477	436	- :
Total	• •	••	. 4//	- 430	, -
Crops per 100 acres			acre	s acre	<b>s</b> .
Cereals			. 29	32	2
Roots			. 4	1 7	7
Hops and Fruit			. 20	) 20	)
Miscellaneous		· · · · · · · · · · · · · · · · · · ·	. 1		3
Casas	• •	•	. 46	33	3
Grass	• •	• • •	. 10	,	

#### **HIGH-PROFIT FARMS**

Results per 100 acres for the 1958-59 farming year.

-					Page
Milk	S-SELLING FARMS				27
1.	Predominantly Milk	••		• •	28
2.	Milk with Pigs and/or Poultry	• •			30
3.	Milk with Arable	• •	• •		32
4.	Milk with Mixed Crops and Liv	estock			34
Non-	MILK-SELLING FARMS		• •		37
1.	Predominantly Livestock	• •			38
2.	Mixed Cropping and Livestock	• •	• •	• •	40
3.	Predominantly Arable				42
4.	Intensive Arable				44

#### HIGH-PROFIT FARMS

Over a period of years some farms consistently produce above average profits and an examination of the reasons for this is amongst the most important aspects of comparative farm analysis. Careful selection is necessary, however, in order that only fully representive high-profit farms are chosen. Selection has been made on the following basis:—

- 1. Profit has been measured as the net return per £100 output after making a charge for interest on tenant's capital.
- 2. Farms have been selected from within type groups defined on a standard output basis.
- 3. The farms chosen fall within the top twenty-five per cent. of the range of profits (more on small groups) in each of the last three years.

#### HIGH-PROFIT MILK-SELLING FARMS

On each of the four groups of dairy farms, high profits are associated with relatively high levels of output per acre. In all cases the high-profit farms are intensively organized and produce a large volume of output by means of heavier stocking densities and somewhat greater amounts of sale crop production. (The influence of size on intensity of organization should be borne in mind where the average acreage for all farms differs from that of the high-profit group.)

With the exception of crops, yields are higher on the groups of high-profit farms. This is particularly noticeable in the case of milk sales per cow, which tend to be more than ten per cent above the general average. The Milk with Mixed Crops & Livestock group of high-profit farms is an exception to the general tendency and in this case the higher level of output per acre is mainly associated intensity of system. Furthermore, the difference in profitability, as compared with the general average, is more marked than for other types of dairy farms.

With regard to the Feed Economy, efficiency is noticeably higher on the high-profit farms. The adjusted feed acreage requirements per livestock unit are less by between ten to fifteen per cent., despite the use of proportionately greater amounts of purchased feed on the small, intensive farms with high profits.

Spending is comparatively high on farms with above average profits but it is associated with proportionately higher levels of production. Thus, for example, despite greater outlays on labour and machinery and power, a superior work performance is obtained and overall productivity is twenty per cent. above average.

#### Type of Farm: PREDOMINANTLY MILK

				All Farms	High-Profit Farms
Average Acreage				$119\frac{3}{4}$	112 <del>3</del>
Size range					s 33-203½ acs
Number of Farms	• •	••		24	6
STANDARD OUTPUT				%	%
Milk				73.8	72.3
Sheep and Cattle	• •			16.7	16.9
Pigs and Poultry	• • •			5.2	5.8
Crops	• •	••		4.3	5.0
Total	• •	• •	• •	100.0	100.0
Оитрит			I	Results per 1	
Cattle				£	£
Sheep and Wool	• •	• •	• •	574	711
Pigs	• •	• •	• •	29	39
Poultry and Eggs	• •	• •	• •	23	5
Milk	• •	• •	• •	176	249
Willik	••	••	• •	3929	5057
Total Livest	ock	••		4731	6061
Crops				203	287
Miscellaneous	• •	• •	• •	261	247
Total Outpu	t	••		5195	6595
Less Feed Purchas	ses			1281	1616
Seed Purchas		• •		88	109
Net Output	• •	•• • •	••	3826	4870
EXPENDITURE				£	£
Fertilizers				326	372
Rent and Rates				339	396
Labour—paid				1058	1092
unpaid		• •		429	560
Power and Machine	ery	• •		729	782
Miscellaneous	• •	••	• •	442	503
Total	••	••	••	3323	3705
MANAGEMENT AND INV	ESTMENT	INCOME		£ 503	£1165
Add Farmer and wife'	's labour			£ 337	£ 499
NET FARM INCOME		• •	• •	£ 840	£1664
TENANT'S CAPITAL pei	100 acre	es		£3964	£5018
RETURN ON CAPITAL	• •	••		13%	23 %
				, .	, 0

		All Farms	High-Profit Farms
System Index		120	143
Farm Feed Acres per 100 acres		93.4	90.1
Livestock Units per 100 acres		49.9	57.6
Percentage of Intensive Livestock	••	,68.5	69.0
Yield Index		102	114
Livestock Yield Index		102	114
Crop Yield Index		109	88
Output per Productive L.S.U		£ 95.2	£ 106.7
Milk Yield per cow (galls.)		782	908
Milk Sales per cow	• •	£ 122	£ 137
Forage Acres per Grazing L.S.U.		1.96	1.62
Farm Feed Acres per L.S.U		1.98	1.56
Adj. Feed Acres per L.S.U	• •	2.74	2.49
Utilised S.E. per Farm Feed Acre	• •		cwt 18.7 cwt
Milk Sales per Adj. Feed Acre		£ 45.8	
Livestock Output per Adj. Feed Acre	• •	£ 35.7	£ 45.2
Work Units per man Labour Cost per 100 M.W.U Labour and Machinery Cost per £10	 0. Net	254 £ 178	
Output		£ 59.1	£ 50.4
Power and Machinery Costs per Tractor Work Units:	1000	£	£
Licences, Insurance and Repairs		141	162
Fuel and Electricity		149	143
Contractors' Charges		81	58
Depreciation		177	169
2 optionation 11			
Total		548	532
		-	
Crops per 100 acres:		acres	acres
Cereals	• •	. 10	12
Roots		. 4	3
Hops and Fruit	•	•	·
Miscellaneous	•	. 3	3
Grass	•	. 83	82

## Type of Farm: MILK, PIGS AND/OR POULTRY

••	,	/		- 0021111	
				All Farms	High-Profit Farms
Average Acreage				111	$92\frac{1}{4}$
Size range			18	-282½ acres	18½-211 acres
Number of Farms		• •		20	6
STANDARD OUTPUT				%_	
Milk				46.3	% 38.9
Sheep and Cattle				11.0	7.0
Pigs and Poultry	• •	• •		37.6	47.7
Crops Total	• •	• •	• •	5.1	6.4
Total	••	••	• •	100.0	100.0
Оитрит				Results per £	r 100 acres £
Cattle				420	496
Sheep and Wool		• •	• •	49	44
Pigs	••	• • • •		1702	4079
Poultry and Eggs		••		1040	1422
Milk				3698	5301
m . 1.r	•				
Total Livesto	ock	• •	• •	6909	11342
Crops	• •	• •	• •	360	572
Miscellaneous	• •	• •	• •	274	500
Total Output	:			7543	12414
Less Feed Purchas				3055	4966
Seed Purchase	es	• • .	• •	91	79
Net Output		••	• •	4397	7369
Expenditure				£	£
Fertilizers				253	343
Rent and Rates	• •			365	524
Labour—paid	• •	• •		1117	1696
unpaid	• •	• •	• •	671	927
Power and Machine	ery	• •	• •	874	1262
Miscellaneous	• •	• •	• •	654	1217
Total	••	••	٠.	3934	5969
Management and Inv	'ESTMENT	INCOME		£ 463	£1400
Add Farmer and wi			••	£ 574	£ 856
3.7 Y2 T		••	• •	£1037	£2266
TENANT'S CAPITAL per		es	• •	£5453	£8540
RETURN ON CAPITAL		••		8%	16%
				, ,	, o.

		All Farms	High-Profit Farms
System Index Farm Feed Acres per 100 acres Livestock Units per 100 acres Percentage of Intensive Livestock	••	203 92.7 75.4 77.5	337 86.7 122.0 83.9
Yield Index Livestock Yield Index Crop Yield Index Output per Productive L.S.U Milk Yield per cow (galls.) Milk Sales per cow		92 92 106 £94.0 768 £ 123	95 95 93 £101.3 769 £134
Forage Acres per Grazing L.S.U. Farm Feed Acres per L.S.U Adj. Feed Acres per L.S.U Utilised S.E. per Farm Feed Acre Milk Sales per Adj. Feed Acre Livestock Output per Adj. Feed Acre	•••	2.04 1.55 2.80 15.6 cv £ 46.3 £ 34.8	1.62 0.97 2.33 vt 25.3 cwt £ 61.1 £ 44.7
Work Units per man Labour Cost per 100 M.W.U. Labour & Machinery Cost per £100 Output	Net	275 £ 160 £ 66.8	280 £ 162 £ 53.4
Power & Machinery Costs per 1000 Tra Work Units:	actor	£	£
Licences, Insurance and Repairs Fuel and Electricity Contractors' Charges Depreciation	• •	136 191 73 177 577	146 237 91 183 ——————————————————————————————————
Crops per 100 acres:		acres	acres
Cereals Roots	• •	17 5 — 1 77	18 4 1 — 77

## Type of Farm: MILK WITH ARABLE

			Al	ll Farms	High-Profit Farms		
Average Acreage	• •			342	380		
Size range			671-688	8 acres	$115\frac{1}{2}$ -688 acres		
Number of Farms	• •		• •	30	8		
STANDARD OUTPUT				%	%		
Milk			• •	42.3	39.2		
Sheep and Cattle				18.3	16.0		
Pigs and Poultry		• •		3.4	1.9		
Crops	• •	• •	• •	36.0	42.9		
Total	• •	• •	••	100.0	100.0		
Ortonorum			Resu	ults per 100 acres			
OUTPUT Cattle				£	£		
	• •	••	• •	499	480		
Sheep and Wool Pigs	••	• •	• •	96	166		
Poultry and Eggs	• •	• •	• •	19	51		
Milk	• •	• •	• •	107	30		
Will	• •	••	• •	1953	2269		
Total Livesto	ock	••		2674	2996		
Crops				1766	2303		
Miscellaneous	• •			235	272		
Total Outpu		• •	• •	4675	5571		
Less Feed Purchas		• •		512	499		
Seed Purchas	es	• •	• •	186	272		
Net Output	••	••	••	3977	4800		
EXPENDITURE				£	£		
Fertilizers			• •	340	436		
Rent and Rates				277	293		
Labour—paid		• •		1164	1308		
unpaid	• •			122	63		
Power and Machine	ery		• •	737	750		
Miscellaneous	• •	• •	• •	376	449		
Total		••	• •	3016	3299		
MANAGEMENT AND IN	VESTMENT	INCOME		£ 961	£1501		
Add Farmer and wi	fe's labou	ır		£ 111	£ 60		
NET FARM INCOME				£1072	£1561		
TENANT'S CAPITAL per	: 100 acre	S		£3881	£4147		
RETURN ON CAPITAL			••, •	25%	36%		
			• •	/0	20/0		

	All Farm	s High-Profit Farms
System Index	103	3 113
Farm Feed Acres per 100 acres	62.2	
Livestock Units per 100 acres	31.6	
Percentage of Intensive Livestock	54.0	
Yield Index	106	115
Livestock Yield Index	100	
Crop Yield Index	115	
Output per Productive L.S.U	£ 85.0	
Milk Yield per cow (galls.)	795	
Milk Sales per cow	£ 119	
•	~ 11)	2 133
Forage Acres per Grazing L.S.U.	1 02	1.00
Farm Feed Acres per L.S.U	1.83 2.05	2.00
Adj. Feed Acres per L.S.U	2.03	
Utilised S.E. per Farm Feed Acre		
Milk Sales per Adj. Feed Acre		
Livroctook Output man Ad: E. d. A	£ 49.2	
Errestook Output per Auj. Teed Acre	£ 34.6	£ 40.9
Work Units nor man	2.40	
Work Units per man	242	
Labour Cost per 100 M.W.U.	£ 184	£ 178
Labour & Machinery Cost per £100 N	et a sec	2.35
Output	£ 52.1	£ 43.9
Power & Machinery Costs per 100	)()	
Tractor Work Units:	£	£
Licences, Insurance and Repairs	. 150	
Fuel and Electricity	128	
Contractors' Charges	. 44	
Depreciation	174	165
	. 17-7	103
Total	. 496	455
		433
•		
C		,
Crops per 100 acres	acres	acres
Cereals	. 38	44
Roots	. 6	6
Hops and Fruit	. 1	1
Miscellaneous	. 5	4
Grass	. 50	45

## Type of Farm: MILK WITH MIXED CROPS AND LIVESTOCK

			All I	Farms	High-Profit Farms	
Average Acreage .		_		234 <del>1</del> 2	197	
Size range	•	•	67 <del>1</del> -724	_	$67\frac{1}{2}$ -594 acres	
Number of Farms .	•	•	072 .2.	32	8	
	•	•	••			
STANDARD OUTPUT				%	%	
Milk		• •	• •	39.8	41.0	
Sire P unit		• •	• •	21.7	17.2	
1 180 00110 - 0 00110		• •	• •	18.8	24.3	
Crops	••	• •	• •	19.7	17.5	
Total	••	• •	• •	100.0	100.0	
			Results per 100 acres			
OUTPUT				£	£	
Cattle	• •	• •	• •	494	494	
Sheep and Wool	• •	• •	. • •	222	206 646	
Pigs	• •	• •	• •	368	593	
Poultry and Eggs	• •	• •	• •	473		
Milk	• •	• •	• •	1947	2182	
Total Livesto	ck	• •	• • ,	3504	4121	
Crops				937	927	
Miscellaneous				217	353	
Total Output			• •	4658	5401	
Less Feed Purchase	es			1123	1253	
Seed Purchase	es			150	208	
Net Output				3385	3940	
Tier Guipur	••	• •	• •			
Expenditure				£	£	
Fertilizers				266	316	
Rent and Rates	•			283	297	
Labour—paid				1020	959	
unpaid		••	• •	255	308	
Power and Machine		••	••	714	831	
Miscellaneous	CI y	• •	• •	345	349	
Miscellancous	• •	••	• ••			
Total	••	••	• •	2883	3060	
Mary amount are In	N ACCOUNTS	r Ivroo	ME	£ 502	£ 880	
Management and In Add Farmer and w	fo's labor	INCO	ME	£ 182	£ 273	
		uı .	• •	£ 684	£1153	
	. 100	••	• •	£4123	£4597	
TENANT'S CAPITAL pe			• •			
RETURN ON CAPITAL	• •	• •	• •	12%	19%	

## **EFFICIENCY STANDARDS**

				All Farms	High-Profit Farms
System Index Farm Feed Acres pe Livestock Units per Percentage of Intens	100 acres		••	115 74.8 43.1 55.7	134 75.1 49.0 63.7
Yield Index Livestock Yield Index Crop Yield Index Output per Producti Milk Yield per cow Milk Sales per cow	 ve L.S.U.		•••	97 95 106 £83.8 794 £ 119	94 92 102 £ 84.4 748 £ 114
Forage Acres per Gr Farm Feed Acres per Adj. Feed Acres per Utilised S.E. per Far Milk Sales per Adj. Livestock Output per	r L.S.U. L.S.U. m Feed A Feed Acre	 Acre e	•••	1.92 1.85 2.64 15.0 cwt £ 46.7 £ 32.0	1.71 1.71 2.42 17.4 cwt £ 48.1 £ 35.5
Work Units per man Labour Cost per 100 Labour and Machine Output	M.W.U.		  Net	251 £ 176 £ 59.4	275 £ 157 £ 52.3
Power and Machin Tractor Work Uni		s per	1000	£	£
Licences, Insura Fuel and Electri Contractors' Ch Depreciation	city	Repairs 	••	138 124 68 171	154 127 56 200
Total	<b>&gt;</b>	• •	••	501	537
Crops per 100 acres	•			acres	acres
Cereals Roots Hops and Fruit Miscellaneous	••	••	•••	28 6 1 2	30 7 —
Grass	••	••	• •	63	2 61

#### NON-MILK-SELLING FARMS WITH HIGH PROFITS

Differences of size and type are more pronounced than in the case of dairy farms owing to the smaller number of records available. However, apart from Predominantly Livestock farms, high profits are associated with high levels of output per acre and relatively greater emphasis on cash crop production. There is little difference in respect of livestock numbers between the average and above average farms although on the Predominantly Livestock and Non-Milk-Mixed farms, type of livestock is of considerable importance.

The high-profit farms from the former group are fairly large and an extensive system of production is followed, with sheep and cattle fattening in preference to pigs and poultry. Profitability in this case is due to low costs particularly with regard to feedingstuffs, fertilizers, labour, and power and machinery.

The Non-Milk-Mixed farms, with above average profits, however, emphasize pig and poultry production. Purchases of feeding stuffs are relatively large and the acreage of arable sale crops is above average. There is considerable strength in crop production since yields are good, livestock can be maintained on a small acreage of feed crops, and outlays on labour and machinery are comparatively low.

The sample of Predominantly Arable farms, though small in number, is homogeneous in type. Production is mainly concerned with cereals and cash roots and on high-profit farms the area of these is both greater and yields are better than average. Differences in respect of numbers and type of livestock are small but the Feed Economy is much more efficient.

High profitability on Intensive Arable farms is associated with a rather larger area of sale crops, a greater proportion of fruit and hops, but is apparently not linked to better crop yields or more livestock. Labour is more highly productive though there is a somewhat greater level of mechanization.

## Type of Farm: PREDOMINANTLY LIVESTOCK

Type of Turm: TRI		7111111	DIVL	DI OCIL	
			A	All Farms	High-Profit Farms
Average Acreage				$111\frac{3}{4}$	$171\frac{3}{4}$
Size-range			25-32	1 acres	129-220 acres
Number of Farms		••	• •	18	5
STANDARD OUTPUT				%	%
Sheep and Cattle				51.4	68.9
Pigs and Poultry		• •		40.6	22.8
Crops	• •			8.0	8.3
Total	• •	• •	• •	100.0	100.0
			I	Results pe	er 100 acres
OUTPUT				£	£
Cattle				860	219
Sheep and Wool				984	1864
Pigs			• •	920	379
Poultry and Eggs		• •	•• ,	1188	650
Total Livesto	ock			3952	3112
Crops		• •		380	399
Miscellaneous	• •	• •	••	307	129
Total Outpu	t ·			4639	3640
Less Feed Purchas	ses			1802	865
Seed Purchas	es			71	53
Net Output		• •	• •	2766	2722
Expenditure				£	£
Fertilizers	• •			138	67
Rent and Rates	• •	• •		277	284
Labour—paid	• •	• •		501	706
unpaid	• •	• •		622	143
Power and Machin	ery			605	445
Miscellaneous	••	••	• •	324	264
Total	• •	• •	••	2467	1909
Management and In	VESTMENT	INCOME		£ 299	£ 813
Add Farmer and w			• •	£ 591	£ 143
NET FARM INCOME			• •	£ 890	£ 956
TENANT'S CAPITAL PE		es	• •	£3832	£3732
RETURN ON CAPITAL	••	• •	• •	8%	22%

## **EFFICIENCY STANDARDS**

			All Farms	High-Profit Farms
System Index			139	106
Farm Feed Acres per	100 acres		84.9	84.3
Livestock Units per 1			69.7	67.1
Percentage of Intensi			30.4	16.4
Yield Index			· 78	84
Livestock Yield Index	х		78	83
Crop Yield Index			104	97
Output per Productiv	e L.S.U		£ 56.1	£ 50.6
Forage Acres per Gra			1.66	1.49
Farm Feed Acres per	L.S.U		1.35	1.40
Adj. Feed Acres per	L.S.U		2.17	2.06
Utilised S.E. per Far	m Feed Acre		18.9 cv	vt 20.1 cwt
Livestock Output per	Adj. Feed Acr	е	£ 25.3	£ 23.7
Works Units per man	n		290	249
Labour Cost per 100			£ 160	£ 177
Labour & Machiner	y Cost per £10	0 Net		
Output	••	• •	£ 59.9	£ 46.0
Power & Machinery O Work Units:	Costs per 1000 T	ractor	£	£
Licences, Insura	nce and Repairs	·	101	86
Fuel and Electri			117	86
Contractors' Ch	arges		100	74
Depreciation			119	132
			407	270
Total	••	• •	437	378
Crops per 100 acres			acres	acres
Cereals			20	19
Roots	••		2	
Hops and Fruit			1	
Miscellaneous	••		1	2
Grass	••		76	79

## Type of Farm: MIXED CROPPING AND LIVESTOCK

• • •						
				All Farms	High-Proj Farms	fit
Average Acreage		• •		$229\frac{1}{4}$	205	
Size range		• •	60-8	340½ acres	60-407 ac	res
Number of Farms	• •			16	5	
STANDARD OUTPUT				%	%	
Sheep and Cattle				47.3	31.6	
Pigs and Poultry	• •			20.6	32.2	
Crops				32.1	36.2	
Total	• •	• •	• •	100.0	100.0	
			Res	ults per 100		
OUTPUT				£	£	
Cattle	• •	• •	• •	634	524	
Sheep and Wool	• •	• •	• •	826	592	
Pigs	• •	• •	• •	291	689	
Poultry and Eggs	• •	• •	• •	438	558	
Total Livesto	ock			2189	2363	
Crops				1390	2016	
Miscellaneous	••	• •	• •	279	363	
Total Output	<u> </u>	• •		3858	4742	
Less Feed Purchas	es			600	812	
Seed Purchas	es		• •	151	201	
Net Output	••	••	••	3107	3729	
Expenditure				£	£	
Fertilizers				223	292	
Rent and Rates			••	255	244	
Labour—paid		• •		619	718	
unpaid				333	340	
Power and Machine	ery			687	701	
Miscellaneous				301	292	
					-	
Total	••	••	••	2418	2587	
MANAGEMENT AND INV	ESTMENT	INCOME		£ 689	£1142	,
Add Farmer and wi	fe's labo	ur		£ 285	£ 256	- 1
NET FARM INCOME				£ 974	£1398	
TENANT'S CAPITAL per	100 acr	es		£4202	£4568	
n ~ _	• •	• •		16%	25%	
•						

## **EFFICIENCY STANDARDS**

er ge			All Farms	High-Profit Farms
System Index			95	115
Farm Feed Acres per 100 ac	cres		70.3	58.9
Livestock Units per 100 acr			45.4	44.9
Percentage of Intensive Live			16.1	28.7
Yield Index	• •	• •	94	95
Livestock Yield Index	• •	• •	85	79
Crop Yield Index	• •	• •	111	125
Output per Productive L.S.	U	• •	£49.4 -	£ 53.6
Forage Acres per Grazing I	SII		1.84	1.73
Farm Feed Acres per L.S.U		••	1.72	1.43
Adj. Feed Acres per L.S.U.	• • •	••	2.12	1.94
Utilised S.E. per Farm Feed		••	18.8 cwt	
Livestock Output per Adj. 1		• • •	£ 23.8	£ 27.9
Livestock Output per Auj. 1	ced Mere	••	223.0	221.7
Work Units per man	• •		247	271
Labour Cost per 100 M.W.	U		£ 176	£ 161
Labour & Machinery Cost	per £100	Net		
Output	•••	• •	£ 54.6	£ 47.9
Power & Machinery Costs po	er 1000 Tra	ctor		_
Work Units:			£	£
Licences, Insurance and	l Repairs		117	90
Fuel and Electricity			106	102
Contractors' Charges		• •	. 52	56
Depreciation	• •	• •	224	169
Total			499	417
	•••	• •		
Crops per 100 acres	• •	. • •	acres	acres
Cereals	• • .		35	50
Roots			7 .	8
Hops and Fruit			<del></del> .	
Miscellaneous			4	6
Grass	• •		54	36

## Type of Farm: PREDOMINANTLY ARABLE

1) po oj 1 m 1					
			A	lll Farms	High-Profit Farms
Average Acreage	• •	• •		$328\frac{1}{2}$	$392\frac{3}{4}$
Size range	• •	$127\frac{1}{2}$	$-1015\frac{1}{4}$	acres 127	$7\frac{1}{2}$ -1015 $\frac{1}{4}$ acres
Number of Farms		••	• •	8	4
STANDARD OUTPUT				%	%
Sheep and Cattle				24.4	18.4
Pigs and Poultry				10.5	11.3
Crops			• •	65.1	70.3
Total	• •	• •	• •	100.0	100.0
2.1			Re	esults per	
OUTPUT				£	£
Cattle				230	231
Sheep and Wool		• •		524	484
Pigs	• •	• •		277	351
Poultry and Eggs	••	• •	• •	78	1
Total Livesto	ock			1109	1067
Crops				3036	3941
Miscellaneous	••	••	• •	193	179
Total Output	<del>!</del>	••		4338	5187
Less Feed Purchas	es			230	114
Seed Purchas	es		•,•	358	391
Net Output				3750	4682
Expenditure				£	£
Fertilizers				266	267
Rent and Rates				322	334
Labour—paid				919	993
unpaid				146	197
Power and Machin	ery			756	844
Miscellaneous	• •	• •	• •	346	341
Total	••	••		2755	2976
Management and In	VESTMENT	INCOME		£ 995	£1706
Add Farmer and w			• •	£ 139	£ 184
	`	•	• •	£1134	£1890
TENANT'S CAPITAL pe		es	• • •	£3647	£4359
RETURN ON CAPITAL	• •	••		27%	39%

## **EFFICIENCY STANDARDS**

			All Farms	High-Profit Farms
System Index			95	110
Farm Feed Acres per 100 a	acres		47.1	39.2
Livestock Units per 100 ac			23.8	21.6
Percentage of Intensive Liv			23.6	25.5
<b>2 01 01 11 11 11 11 11 11 11 11 11 11 11 </b>				
Yield Index			109	116
Livestock Yield Index			90	89
Crop Yield Index			119	128
Output per Productive L.S	.U		£ 54.4	£ 57.3
Output per Froductive E.S		• •		
Forage Acres per Grazing	121		1.97	1.14
Farm Feed Acres per L.S.		• •	2.31	2.13
Adj. Feed Acres per L.S.U		••	2.66	2.30
Utilised S.E. per Farm Fee		••	17.7 cw	
Livestock Output per Adj.		• • •	£ 21.4	£ 25.1
Livestock Output per Auj.	1 cca 7 toro	• •	221	~
Work Units per man			244	247
Labour Cost per 100 M.W	· · · · · · · · · · · · · · · · · · ·	• •	£ 181	£ 180
Labour and Machinery Co				2 100
Output	st per £100	1101	£ 50.4	£43.9
Cutput	• •	• •		
Power & Machinery Costs	per 1000 Tra	ctor		C
Work Units:			£	£
Licences, Insurance as	nd Repairs	• •	151	140
Fuel and Electricity	• •	• •	106	99
Contractors' Charges	• •		29	18
Depreciation	• •		198	211
				460
Total	• •		484	468
Crops per 100 acres			acres	acres
Cereals	• •		42	48
Roots	• •		. 12	18
Hops and Fruit			. —	
Miscellaneous	• •		. 13	12
Grass	• •		. 33	22

## Type of Farm: INTENSIVE ARABLE

				All Farms	High-Profit Farms
Average Acreage		• •		· 137	164
Size range				9-340 acres	55½-234 acres
Number of Farms	••	• • •	••	20	5
STANDARD OUTPUT				%	%
Sheep and Cattle			٠	16.9	13.7
Pigs and Poultry				18.4	16.3
Crops	• •			64.7	70.0
Total	• •	• •	• •	100.0	100.0
			Re	sults per 10	0 acres
Оитрит				£	£
Cattle				285	224
Sheep and Wool	••			432	622
Pigs	• •	• •		1215	692
Poultry and Eggs	• •	• •	• •	742	1285
Total Livest	ock			2674	2823
Crops				6112	6872
Miscellaneous	••	••	••	279	312
Total Outpu	t			9065	10007
Less Feed Purchas	ses			1450	1694
Seed Purchas	es	••	• •	344	345
Net Output		••	••	7271	7968
EXPENDITURE				£	£
Fertilizers				436	609
Rent and Rates				458	436
Labour—paid				2624	2918
unpaid	• •			595	201
Power and Machin	ery	• •		1194	1395
Miscellaneous	••	• •	• •	1106	1142
Total		\	••	6413	6701
MANAGEMENT AND IN	VESTMENT	INCOME		£ 858	£1267
Add Farmer and wi	ife's labou	ır		£ 537	£ 167
NET FARM INCOME	• •		• •	£1395	£1434
TENANT'S CAPITAL pe	r 100 acre	es		£4991	£4530
RETURN ON CAPITAL	• •	• •	• •	17%	28%

## **EFFICIENCY STANDARDS**

				All Farms	High-Profit Farms
System Index	• •			238	259
	res per 100 acre	Š		40.7	37.1
	ts per 100 acres			44.2	44.2
	Intensive Livesto		••	39.8	34.9
Yield Index	••	• •		89	93
Livestock Yiel	d Index			77	83
Crop Yield In	dex		• •	99	99
Output per Pr	oductive L.S.U.	• •	•••	£ 59.5	£ 63.1
Forage Acres	per Grazing L.S	.U.		1.42	1.94
	res per L.S.U.			1.06	0.89
Adj. Feed Acı				2.00	2.00
-	er Farm Feed A			27.7 cv	
Livestock Out	put per Adj. Fee	ed Acre	• •	£ 29.5	£ 29.9
Work Units p				287	362
-	per 100 M.W.U.			£ 164	£ 122
	achinery Cost p	er £100	Net		
Output .	• ••	• •	٠	£ 61.3	£ 57.5
Power & Macl Work Units	ninery Costs per	1000 Tra	ctor	£	£
Licences.	Insurance and I	Renairs		117	130
	Electricity	··		140	103
	ors' Charges			66	122
Depreciat		••	••	145	136
Total		••		468	491
Crops per 100	acres			acres	acres
Cereals .		• •		29	26
	• • • • • •	• •		6	5
Hops and F		• •		25	39
Miscellanec	ous	••		7	2
Grass .	• ••	• •		. 33	28

## CHANGES IN OUTPUT, EXPENDITURE AND PROFITABILITY

Results for identical samples of farms for the three years 1956-7, 1957-8 and 1958-9.

						Page
Milk	K-SELLING FARMS		• •		••	47
1.	Predominantly Milk	• •	••		••	48
2.	Milk with Pigs and/or I	Poultry	••			49
3.	Milk with Arable	••	••	••	••	50
4.	Milk with Mixed Crops	and Liv	estock	••	••	51
Non-	-Milk-Selling Farms	••	••		• •	52
1.	Predominantly Livestoc	k		• •		53
2.	Mixed Cropping and St	ocking	• •	••		54
3.	Predominantly Arable	• •		. • •		55
4.	Intensive Arable	• •	••	• •	••	56
Viei i	OS OF CROPS AND LIVESTO	oCK.				57

#### TRENDS IN PROFITABILITY

#### MILK-SELLING FARMS

Results are available for the three years 1956-57 to 1958-59, for four identical groups of dairy farms totalling 97 records. Despite a trend towards lower prices for some products, profitability has tended to improve, reaching a relatively high level in 1958-59. The value of total output increased on all farm groups with cattle and crops showing the greatest gains.

On small dairy farms, particularly where pigs and poultry are important, less satisfactory results were obtained in 1958-59 than in either of the two preceding years. On these farms, costs were tending to rise more rapidly than elsewhere and there was a decline in milk production. Greater emphasis was placed, however, on pig production.

Costs have risen throughout the three-year period on all types of farms though probably at a lower rate of increase than in any similar period since the beginning of the war. Total Labour and Machinery costs, for example (with the exception of a single group of farms) have risen by less than four per cent. On the other hand, it is interesting to note that expenditure on rent has risen by between ten to seventeen per cent. over the last three years.

## PREDOMINANTLY MILK

## IDENTICAL SAMPLE—24 FARMS

			1956-57	1957-58	1958-59
Average Acreage	••	٠,	114	$115\frac{1}{4}$	1193
Size range	٠	3	$2\frac{1}{2}$ -268 acs.	33-268 acs.	33-268 acs
			Res	ults per 100	acres
Оитрит			£	£	£
Cattle Sheep and Wool	••		415 43	446 42	574 29
Pigs	• •		158	40	23
Poultry and Eggs	• •	• •	257	183	176
Milk	• •	• •	3624	3827	3929
Total Livesto	ock .		4497	4538	4731
Crops			202	263	203
Miscellaneous			260	279	261
Total Output	•	•	4959	5080	5195
Less Feed Purchas Seed Purchase			1461 96	1339 102	1281 88
Net Output		•	3402	3639	3826
Expenditure			£	£	£
Fertilizers			274	247	326
Rent and Rates			301	323	339
Labour—paid	••	•	1031	1037	1058
unpaid Power and Machine		•	419 724	430 784	429 729
Miscellaneous		•	417	455	442
1,1100,110110000	•	•			
Total	•.•		3166	3276	3323
Management and I	[NVESTMEN	т			
INCOME	··		£ 236	£ 363	£ 503
Add Farmer and wife			£ 342	£ 350	£ 337
NET FARM INCOME					£ 840
TENANT'S CAPITAL per		;			£3964
RETURN ON CAPITAL	•••	•,	6%	9%	13%

## MILK, PIGS AND/OR POULTRY

## IDENTICAL SAMPLE—20 FARMS

		1956-5	7 1957-58	1958-59
Average Acreage .		1081	$107\frac{1}{2}$	111
Size range .	. 18 <del>1</del> -2	88 acs.	$18\frac{1}{3}$ -282 $\frac{1}{3}$ acs.	18½-282½ acs
-	-		sults per 100	
OUTPUT		£	£	£
Cattle		381	359	420
Sheep and Wool	• ••	31	13	49
Pigs	• • •	1554	1455	1702
Poultry and Eggs		1011	1066	1040
Milk		3842	3817	3698
Total Livestock	k	6819	6710	6909
Crops		170	298	360
Miscellaneous		285		274
Total Output	••	7274	7304	7543
Less Feed Purchases		3054	2975	3055
Seed Purchases		132	150	91
Net Output		4088	4179	4397
Tier Guipur .	••			
Expenditure		£	£	£
Fertilizers		286	283	253
Rent and Rates		319	357	365
Labour—paid		1001	983	1117
unpaid		643	610	671
Power and Machiner	v	823		874
Miscellaneous		506	566	654
				Name and Address of the Owner, where
Total		3578	3636	3934
MANAGEMENT AND IN	VESTMENT		1.4	
INCOME		£ 510	£ 543	£ 463
Add Farmer and wife'	s labour		£ 547	£ 574
NET FARM INCOME		£1077	£1090	£1037
TENANT'S CAPITAL per 1	00 acres	£5022	£5195	£5453
RETURN ON CAPITAL		10%	10%	8%
TILLICALI, OIL CHILING	• •	10/0	10/0	0/0

## MILK WITH ARABLE

## IDENTICAL SAMPLE—26 FARMS

			1956-57	1957-58	1958-59
Average Acreage			359 <del>3</del>	$360\frac{1}{2}$	357
Size range		601-89	_	$66-909\frac{1}{4}$ acs.	$67\frac{1}{2}$ -898 $\frac{3}{4}$ acs.
		-	- R	esults per 10	0 acres
Оитрит			£	£	£
Cattle			336	418	464
Sheep and Wool		• •	54	76	84
Pigs			43	19	22
Poultry and Eggs			57	75	$1\overline{17}$
Milk			1987	1921	1941
******					
Total Livesto	ock		2477	2509	2628
Crons			1565	1441	1781
Crops Miscellaneous	• •	• •	209	195	231
Miscenaneous	• •	• •	207	173	231
Total Output	t		4251	4145	4640
Less Feed Purchas	200		601	515	492
Seed Purchas		• •	178	180	195
Seed Fulchas	CS	• •	170	100	193
			2472	2450	2052
Net Output	• •	• •	3472	3450	3953
Expenditure			£	£	£
Fertilizers			327	347	367
Rent and Rates			237	259	276
Labour—paid			1155	1142	1190
unpaid			115	103	104
Power and Machin	ery		731	706	735
Miscellaneous		• • •	330	361	380
Total			2895	2918	3052
******					
MANAGEMENT AND	Inves	TMENT			
INCOME	.:			£ 532	£ 901
Add Farmer and w	ite's la	abour	£ 101	£ 97	£ 99
NET FARM INCOME			£ 678	£ 629	£1000
TENANT'S CAPITAL per			£3722	£3680	£3981
RETURN ON CAPITAL	• •	• •	15%	14%	23%

## MILK WITH MIXED CROPS AND LIVESTOCK

## IDENTICAL SAMPLE—27 FARMS

			1956-57	1957-58	1958-59
Average Acreage	• •		215 <del>1</del>	215 <del>1</del>	220 <del>1</del>
Size range		671	-594 acs.	$67\frac{1}{2}$ -594 acs.	-
_		_		· <del>-</del>	-
Ozumazum				esults per 100	
OUTPUT			`£	£	£
Cattle	• •		371	480	497
Sheep and Wool	• •	• •	217	284	258
Pigs	• •	• •	336	328	350
Poultry and Eggs Milk	• •	• •	384	405	413
WIIIK	• •	• •	1943	1922	1947
Total Livest	ock		3251	3419	3465
		• •	0201	5417	5405
Crops			666	761	879
Miscellaneous	• •		199	244	234
Total Outpu	<i>t</i> .	• •	4116	4424	4578
Less Feed Purcha	ses		1011	1036	1075
Seed Purchas		• •	132	146	153
				110	133
Net Output			2973	3242	3350
Tier Guipur	••	• •		J242 	<del></del>
Expenditure			c	0	
			£	£	£
Fertilizers	• •	• •	248	266	258
Rent and Rates	• •	• •	245	259	269
Labour—paid	• •	• •	941	928	985
unpaid Power and Machin	oru	• • .	245 657	278	277
Miscellaneous	er y	• •	657	665	706
Wiscenaneous	••	• •	316	363	341
Total			2652	2759	2026
Totat	••	••		2139 	2836
	_				_
	Investm		0.001	0.400	
INCOME	· ·		£ 321	£ 483	£ 514
Add Farmer and w.			£ 181	£ 184	£ 197
NET FARM INCOME	100 0000		£ 502	£ 667	£ 711
TENANT'S CAPITAL per		S	£3812	£3940	£4068
RETURN ON CAPITAL	• •	• •	8%	12%	13%

#### NON-MILK-SELLING FARMS

Results are available for the three years ending 1958-59 for four identical groups of farms, totalling forty-nine records. In contrast with the general rise of profitability on dairy farms in 1958-59, results were poorer than in the preceding year. The decline was due to a sharp rise in expenditure which more than offset a rise in output. Sheep output showed a fairly strong tendency to decline below the relatively high level reached in 1957-58, and there were smaller returns from pig production on two groups of farms. In addition, larger purchases of feedingstuffs tended to outweigh the appreciable rise in the value of crop production associated with the higher crop yields of the 1958 harvest.

On a small group of arable farms profits rose in 1958-59 and this was associated with an increase in output from sheep and crops and only a comparatively small rise in expenditure.

Generally speaking, however, costs tended to rise more rapidly on non-milk-selling farms than on dairy farms. Outlays on rent and sundries were higher but the most important increases were associated with labour and machinery costs which, over the three years, rose on average by twelve per cent.

## PREDOMINANTLY LIVESTOCK

## IDENTICAL SAMPLE—15 FARMS

Net Output   120½   122   122½				1956-57	1957-58	1958-59
Size range   25-321 acs. 25-321 acs.   Results per 100 acres	Average Acreage			1201	122	1221
Results per 100 acres   Coutput		••	• •	_		-
OUTPUT         £ <td>Size range</td> <td>• •</td> <td></td> <td>23-321 acs.</td> <td>23-321 acs.</td> <td>25-321 acs.</td>	Size range	• •		23-321 acs.	23-321 acs.	25-321 acs.
Cattle          780       830       836         Sheep and Wool          1204       1074         Pigs				Resu	elts per 100 d	acres
Sheep and Wool   934   1204   1074     Pigs   452   462   517     Poultry and Eggs   870   1113   1090     Total Livestock   3036   3609   3517     Crops   451   256   327     Miscellaneous   211   252   302     Total Output   3698   4117   4146     Less Feed Purchases   1305   1318   1540     Seed Purchases   68   78   61     Net Output   2325   2721   2545     Expenditure   £	Оитрит			£	£	£
Sheep and Wool   934   1204   1074     Pigs   452   462   517     Poultry and Eggs   870   1113   1090     Total Livestock   3036   3609   3517     Crops   451   256   327     Miscellaneous   211   252   302     Total Output   3698   4117   4146     Less Feed Purchases   1305   1318   1540     Seed Purchases   68   78   61     Net Output   2325   2721   2545     Expenditure   £	Cattle			780	830	836
Pigs <td></td> <td></td> <td></td> <td></td> <td>1204</td> <td></td>					1204	
Total Livestock       3036       3609       3517         Crops          451       256       327         Miscellaneous         211       252       302         Total Output        3698       4117       4146         Less Feed Purchases        1305       1318       1540         Seed Purchases        68       78       61         Net Output         2325       2721       2545         Expenditure       £       £       £       £         Fertilizers        88       104       114       114       Rent and Rates        235       254       268       268       Labour—paid         541       518       553       Power and Machinery        542       553       549       Miscellaneous         293       306       477                      <				452	462	517
Crops <td< td=""><td></td><td></td><td></td><td>870</td><td>1113</td><td>1090</td></td<>				870	1113	1090
Crops <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
Miscellaneous       . 211       252       302         Total Output       . 3698       4117       4146         Less Feed Purchases       . 1305       1318       1540         Seed Purchases       . 68       78       61         Net Output       . 2325       2721       2545         EXPENDITURE       £       £       £         Fertilizers       . 88       104       114         Rent and Rates       . 235       254       268         Labour—paid       . 355       366       457         unpaid       . 541       518       553         Power and Machinery       . 542       553       549         Miscellaneous       . 312       293       306         Total       . 2073       2088       2247         MANAGEMENT AND INVESTMENT INCOME       . £ 252       £ 633       £ 298         Add Farmer and wife's labour       £ 541       £ 518       £ 553         NET FARM INCOME       . £ 793       £1151       £ 851         TENANT'S CAPITAL per 100 acres       £3228       £3449       £3647	Total Livesto	ock :		3036	3609	3517
Miscellaneous       . 211       252       302         Total Output       . 3698       4117       4146         Less Feed Purchases       . 1305       1318       1540         Seed Purchases       . 68       78       61         Net Output       . 2325       2721       2545         EXPENDITURE       £       £       £         Fertilizers       . 88       104       114         Rent and Rates       . 235       254       268         Labour—paid       . 355       366       457         unpaid       . 541       518       553         Power and Machinery       . 542       553       549         Miscellaneous       . 312       293       306         Total       . 2073       2088       2247         MANAGEMENT AND INVESTMENT INCOME       . £ 252       £ 633       £ 298         Add Farmer and wife's labour       £ 541       £ 518       £ 553         NET FARM INCOME       . £ 793       £1151       £ 851         TENANT'S CAPITAL per 100 acres       £3228       £3449       £3647						
Total Output        3698       4117       4146         Less Feed Purchases        1305       1318       1540         Seed Purchases        68       78       61         Net Output        2325       2721       2545         Expenditure       £       £       £       £         Fertilizers        88       104       114         Rent and Rates        235       254       268         Labour—paid        355       366       457         unpaid        541       518       553         Power and Machinery        542       553       549         Miscellaneous         2073       2088       2247         MANAGEMENT AND INVESTMENT       Income        £       252       £       633       £       298         Add Farmer and wife's labour       £       541       £       518       £       553         Net Farm Income        £       793       £       £       5151       £       851         Tenant's Capital per 100 acres       £	Crops	••	• •			
Less Feed Purchases       . 1305       1318       1540         Seed Purchases       . 68       78       61         Net Output       . 2325       2721       2545         EXPENDITURE       £       £       £         Fertilizers       . 88       104       114         Rent and Rates       . 235       254       268         Labour—paid       . 355       366       457         unpaid       . 541       518       553         Power and Machinery       . 542       . 553       549         Miscellaneous       . 312       . 293       306         Total       . 2073       . 2088       . 2247         MANAGEMENT AND INVESTMENT       INCOME       £ 252       £ 633       £ 298         Add Farmer and wife's labour       £ 541       £ 518       £ 553         NET FARM INCOME       £ 793       £1151       £ 851         TENANT'S CAPITAL per 100 acres       £ 3228       £ 3449       £ 3647	Miscellaneous	• •	• •	211	252	302
Less Feed Purchases       . 1305       1318       1540         Seed Purchases       . 68       78       61         Net Output       . 2325       2721       2545         EXPENDITURE       £       £       £         Fertilizers       . 88       104       114         Rent and Rates       . 235       254       268         Labour—paid       . 355       366       457         unpaid       . 541       518       553         Power and Machinery       . 542       . 553       549         Miscellaneous       . 312       . 293       306         Total       . 2073       . 2088       . 2247         MANAGEMENT AND INVESTMENT       INCOME       £ 252       £ 633       £ 298         Add Farmer and wife's labour       £ 541       £ 518       £ 553         NET FARM INCOME       £ 793       £1151       £ 851         TENANT'S CAPITAL per 100 acres       £ 3228       £ 3449       £ 3647						******
Seed Purchases   68   78   61	Total Output	<i>t</i> .	• •	3698	4117	4146
Seed Purchases   68   78   61	Loss Feed Purchas	ec		1305	1318	1540
Net Output       2325       2721       2545         EXPENDITURE       £       £       £       £         Fertilizers        88       104       114         Rent and Rates        235       254       268         Labour—paid         541       518       553         Power and Machinery        542       553       549         Miscellaneous         293       306         Total          2073       2088       2247         Management       and Investment       Income         £       252       £       633       £       298         Add Farmer and wife's labour       £       541       £       518       £       553         Net Farm Income         £       793       £       £       151       £       851         Tenant's Capital per 100 acres       £       3228       £       2349       £       3647						
EXPENDITURE £ £ £  Fertilizers	beed I dienas	<b>C</b> 5	••	00	70	01
EXPENDITURE £ £ £  Fertilizers	Nat Outnut			2325	2721	2545
Fertilizers	Nei Ouipui	• •	• •			2343
Fertilizers						
Rent and Rates	Expenditure			£	£	£
Rent and Rates	Fertilizers			88	104	114
Labour—paid					254	268
unpaid        541       518       553         Power and Machinery        542       553       549         Miscellaneous        312       293       306         Total        2073       2088       2247         MANAGEMENT AND INVESTMENT         INCOME         £ 252       £ 633       £ 298         Add Farmer and wife's labour       £ 541       £ 518       £ 553         NET FARM INCOME        £ 793       £1151       £ 851         TENANT'S CAPITAL per 100 acres       £3228       £3449       £3647						
Power and Machinery					518	553
Total        2073       2088       2247         MANAGEMENT AND INVESTMENT INCOME         £ 252       £ 633       £ 298         Add Farmer and wife's labour       £ 541       £ 518       £ 553         NET FARM INCOME        £ 793       £1151       £ 851         TENANT'S CAPITAL per 100 acres       £3228       £3449       £3647	Power and Machin	ery		542	553	549
Management and Investment Income £ 252	Miscellaneous	••		312	293	306
Management and Investment Income £ 252						
INCOME £ 252 £ 633 £ 298  Add Farmer and wife's labour £ 541 £ 518 £ 553  NET FARM INCOME £ 793 £1151 £ 851  TENANT'S CAPITAL per 100 acres £3228 £3449 £3647	Total			2073	2088	2247
INCOME £ 252 £ 633 £ 298  Add Farmer and wife's labour £ 541 £ 518 £ 553  NET FARM INCOME £ 793 £1151 £ 851  TENANT'S CAPITAL per 100 acres £3228 £3449 £3647						
INCOME £ 252 £ 633 £ 298  Add Farmer and wife's labour £ 541 £ 518 £ 553  NET FARM INCOME £ 793 £1151 £ 851  TENANT'S CAPITAL per 100 acres £3228 £3449 £3647	MANACEMENT AND	INDECTS	ansim.			
Add Farmer and wife's labour £ 541       £ 518       £ 553         NET FARM INCOME £ 793       £1151       £ 851         TENANT'S CAPITAL per 100 acres       £3228       £3449       £3647		INAESIN	IENI	£ 252	f 633	£ 298
NET FARM INCOME £ 793 £1151 £ 851 TENANT'S CAPITAL per 100 acres £3228 £3449 £3647		 ife's lah	Our			
TENANT'S CAPITAL per 100 acres £3228 £3449 £3647			Jul			
RETURN ON CAPITAL 8% 18% 8%			es.			

## MIXED CROPPING AND STOCKING

## IDENTICAL SAMPLE—10 FARMS

			1956-57	1957-58	1958-59
Average Acreage			$145\frac{1}{4}$	146	146
Size range	• •		59-301 acs.	59-301 acs.	59-301 acs.
			Resu	lts per 100 d	acres
OUTPUT			£	£	£
Cattle			699	594	615
Sheep and Wool	• •		486	636	502
Pigs	• •	• •	354 536	439	367
Poultry and Eggs	• •	• •	526	525	587
Total Livest	ock		2065	2194	2071
Crops			1156	1137	1324
Miscellaneous		• • • • • • • • • • • • • • • • • • • •	229	263	317
•					
Total	••		3450	3594	3712
Less Feed Purchas	ses		630	586	695
Seed Purchas	es		123	144	119
Net Output	• •		2697	2864	2898
				-	
Expenditure			£	£	£
Fertilizers			229	213	195
Rent and Rates	• •		210	218	220
Labour—paid	• •	• •	516	518	541
unpaid Power and Machin	··	• •	426 616	428 672	412 714
Miscellaneous	ici y	• •	249	229	282
1v11scenarico as	• •	••	217	22)	202
Total			2246	2278	2364
		• •			
16	T				
MANAGEMENT AND INCOME	Investm	ENT	£ 451	£ 586	£ 534
Add Farmer and w	rife's labo	 nır	£ 323	£ 325	£ 362
NET FARM INCOME			£ 774	£ 911	£ 896
TENANT'S CAPITAL pe		es	£3637	£3769	£4139
RETURN ON CAPITAL			12%	15%	13%

## PREDOMINANTLY ARABLE

## IDENTICAL SAMPLE—7 FARMS

		- 19	956-57	1957-58	1958-59
Average Acreage			330	$330\frac{1}{2}$	$350\frac{1}{2}$
Size range	$127\frac{1}{2}$ -10	$15\frac{1}{4}$ acs.	$127\frac{1}{2}$ -10	$015\frac{1}{4}$ acs.	$127\frac{1}{2}$ -1015 $\frac{1}{4}$ acs.
			Re	sults per 1	00 acres
Оитрит			£	£	£
Cattle Sheep and Wool Pigs Poultry and Eggs			320 352 246 50	239 304 315 67	253 448 316 89
Total Live	stock		968	925	1106
Crops Miscellaneous		••	2741 196	2995 183	3160 196
Total Out	out		3905	4103	4462
Less Feed Purch Seed Purch			223 284	244 339	237 295
. Net Outpu	ıt		3398	3520	3930
Expenditure			£	£	£
Fertilizers Rent and Rates Labour—paid unpaid Power and Macl Miscellaneous	  ninery	••	308 269 797 155 702 274	394 280 874 155 729 297	277 311 932 159 795 353
Total	••	. ••	2505	2729	2827
MANAGEMENT AND INCOME Add Farmer and NET FARM INCOME TENANT'S CAPITAL RETURN ON CAPITAL	wife's la	abour :	£ 893 £ 148 £1041 £2993 30%	£ 791 £ 148 £ 939 £3263 24%	£1103 £ 151 £1254 £3652 30%

## INTENSIVE ARABLE

## IDENTICAL SAMPLE—17 FARMS

			1956-57	1957-58	1958-59
Average Acreage			$127\frac{1}{2}$	$126\frac{1}{2}$	$128\frac{1}{2}$
Size range	••	$35\frac{1}{2}$ -24	_	-	$35\frac{1}{2}-255\frac{1}{2}$ acs.
			R	Results per 10	0 acres
Оитрит			£	£	£
Cattle			200	356	298
Sheep and Wool		• •	386	547	448
Pigs	• •	• •	1538	1574	1431
Poultry and Eggs	••	• •	520	625	606
Total Livest	ock		2644	3102	2783
Crops			4377	4950	5451
Miscellaneous	•••	• •	388	348	288
Total Outpu	<i>t</i> .	• •	7409	8400	8522
Less Feed Purchas	ses		1399	1469	1481
Seed Purchas		• •	282	291	319
				****	-
Net Output	• •		5728	6640	6722
				-	
Expenditure			£	£	£
Fertilizers			399	420	420
Rent and Rates			355	386	387
Labour—paid	• •		2264	2398	2605
unpaid	• •	• •	434	440	442
Power and Machin Miscellaneous	ery	• •	1019	1054	1091
Miscenaneous	• •	• •	721	802	904
<b></b> 1			<del></del>		<del></del>
Total	• •	• • '	5192	5500	5849
	Invest				**
INCOME			£ 536	£1140	£ 873
Add Farmer and w			£ 373	£ 376	£ 377
NET FARM INCOME			£ 909	£1516	£1250
TENANT'S CAPITAL per		res	£4579	£4758	£5040
RETURN ON CAPITAL	• •	• •	12%	24 %	17%

## AVERAGE CROP YIELDS PER ACRE

## ALL FARMS

Harvest Year	Wheat cwt	Barley cwt	Oats cwt	Mixed Corn cwt	Potatoes tons
1956	23	$22\frac{3}{4}$	19	19	$10\frac{1}{2}$
1957	$24\frac{1}{2}$	$20\frac{1}{4}$	$18\frac{1}{4}$	$20\frac{1}{2}$	$7\frac{1}{2}$
1958	24	$22\frac{1}{2}$	191	$20\frac{1}{2}$	$6\frac{3}{4}$
		High-Profit	Farms		
1956	26	$26\frac{1}{2}$	21		$8\frac{1}{4}$
1957	28	$22\frac{1}{2}$	19 <del>1</del>	_	$7\frac{1}{2}$
1958	26	23	191		$7\frac{3}{4}$

## OUTPUT PER LIVESTOCK UNIT

## ALL FARMS

Year	Cattle	Sheep & Wool	Pigs	Poultry & Eggs	Milk Sales per Cow
	£	£	£	£	£
1956-7	15.4	29.4	110.2	146.3	124.0
1957-8	18.2	36.1	105.3	109.4	118.6
1958-9	20.2	32.6	89.5	120.4	118.8
		High-Profit	Farms		
1956-7	19.2	32.1	114.5	163.2	134.7
1957-8	21.2	36.3	109.8	127.6	130.3
1958-9	20.4	35.0	91.7	122.9	129.1

## FARM CLASSIFICATION

					Page
The Economic Classification	of Farn	ns			59
Method of Classification	• •	. : • •	•	• •	60
Classification Tables	• •	••	• •	6	1-63
Size of Farm Business					63

#### THE ECONOMIC CLASSIFICATION OF FARMS

The validity of the comparative method of farm management analysis, now widely used, is largely dependent upon the accurate classification of farms of various types and sizes. Essentially, the object is to obtain standards of performance for groups of farms which use basically similar kinds and quantities of resources and enjoy similar production opportunities.

Since some inputs may be used in several enterprises and produce joint products it is difficult to measure their use adequately and, therefore, to classify farms by this means. Furthermore, only a very limited number of farms could readily provide the information necessary for such a classification. It has been argued that since actual farm output is an expression of the use of resources, and is more readily measurable, a system of classification could be based upon it. However, in practice there are difficulties since the actual output of a farm may be distorted by chance fluctuations in yields or prices, or by an unusual degree of efficiency.

If a computed standard farm output is used for classification purposes instead of the actual output many difficulties can be overcome. Such an approach provides a useful economic measure of what a given farm business can normally be expected to produce from given resources. It is also advantageous where emphasis is placed upon the compilation of reconciled and highly accurate farm records, since it ensures that the best use is made of the comparatively small number of results through their classification into economically homogeneous groups. Finally, the method is particularly well suited to areas of great farming diversity, such as Kent, where attempts to produce 'standards' for type of farming areas are probably of little value.

It has been found that classification on a standard output basis does, however, draw together farms similar in size and type operating under similar soil conditions. Thus dairy farms with over 150 acres, falling into the Milk with Arable group, are situated, almost invariably, on the more fertile soils such as are to be found in East Kent and the Chichester Plain. Similarly, most dairy farms with pigs and/or poultry are well under 100 acres in size and they tend to be located on more difficult soils, such as are typical of the Weald.

#### METHOD OF CLASSIFICATION

The Standard Output of a farm, which is calculated for the preparation of Indicators of Efficiency, (see page 67) is also used for classification purposes.

Classification by type is according to the proportion of standard output arising from the following farming activities:—

## 

The procedure for classification is set out in the following tables:

Farms should be classified by reference to the tables indicated below:--

	•					Table	Page
1.	ALL MILK-SELLING FARMS	•••	•••	•••	•••	I	62

2. ALL OTHER FARMS:—

	17	61
With Hops, Fruit and/or Market Garden Crops Intensive Arable	V	04

Standard Output from: Crops	— % Total over 45	Predominantly Arable	II	62
Livesto	ock 55-75	Mixed Cropping & Stocking	III	63
Livesto	ock over 75	Predominantly Livestock	IV	63

TABLE I

#### ALL MILK-SELLING FARMS

Percentage Total Standard Output				
Milk	Pigs &/or Poultry	Crops*	Type of Farm	Page
Over 60	under 10	under 10	Predominantly Milk	8
20—60	under 10	over 20	Milk with Arable	12
20—60	over 20	under 15	Milk with Pigs and/or Poultry	10

Other Milk-Selling Farms	Milk with Mixed Crops and Livestock	14
•		

<sup>\*</sup> Hops, Fruit and/or Market Garden Crops under 5% total farm acreage.

TABLE II PREDOMINANTLY ARABLE FARMS

Over 45% Total Standard Output from Crops\*

Percentage Total Standard Output		ard Output	Tune of Fanns	
All Livestock	Sheep &/or Cattle	Pigs &/or Poultry	Type of Farm	Page
15—55	over 15	under 10	Arable with Sheep and/or Cattle	—†
15—55	over 10	over 10	Arable with Mixed Livestock	22
15—55	under 10	over 15	Arable with Pigs and/or Poultry	<u></u> †
under 20	under 10	under 10	Predominantly Arable	_ <del>†</del>

<sup>\*</sup> Hops, Fruit and/or Market Garden Crops under 5% Total Acreage.

<sup>†</sup> Insufficient records to provide averages.

TABLE III MIXED CROPPING AND STOCKING FARMS

55 to 75% Total Standard Output from Livestock

Percentage	Total Stand	ard Output		
All Livestock	Sheep & or Cattle	Pigs & or Poultry	Type of Farm	Page
55—75	15—50	15—50	Mixed Cropping and Stocking	20
55—75	4060	under 20	Mixed with Sheep and/or Cattle	20
55—75	under 20	4060	Mixed with Pigs and/or Poultry	<u></u> †

<sup>†</sup> Insufficient records to provide averages.

TABLE IV PREDOMINANTLY LIVESTOCK FARMS

Over 75% Total Standard Output from Livestock.

Percentage Total	Standard Output		
Sheep & or Cattle	Pigs & or Poultry	Type of Farm	Page
over 65	under 35	Livestock mainly Sheep &/or Cattle	18
under 35	over 65	Livestock mainly Pigs &/or Poultry	18
35—65	35—65	Mixed Livestock	18

#### SIZE OF FARM BUSINESS

The comparative results, where possible, are stratified according to size. This has been done on the basis of total acreage of crops and grass, despite the shortcomings of the latter as a measure of size of business. Farm acreage is, however, universally used as a measure of size and within type-groups of farms it does usually bear a close relationship to intensity of production. Furthermore, in many cases acreage is a factor limiting the size of the farm output.

#### INTENSIVE ARABLE FARMS

## Over 45% Total Standard Output from Crops

	Percentage	Total Stand	lard Output		
Intensive Crops :—	All Livestock	Cattle &/or Sheep	Pigs &/or Poultry	Type of Farm	Page
Hops and Fruit over 5% total acreage	15—55	under 40	under 40	Hops and Fruit with Mixed Livestock	24
Market Garden Crops over 5% total acreage	under 15			Market Gardening	24
Fruit over 10% total acreage	1555	under 40	under 40	Fruit with Mixed Livestock	*
Truit over 10% total acreage	15—55	under 10	10—55	Fruit with Pigs and/or Poultry	_*
	under 15		-	Fruit	24

<sup>\*</sup> Insufficient records to provide averages.

## FARM BUSINESS ANALYSIS

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The Standard Output of the Farm	. • •			67
Livestock Units				69
Acreage of Feed Crops	• •		• •	69
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Man and Tractor Work Requirements	• •	• •	٠	71
Efficiency Standards	• •	••		71
System or Organisation Indicators			• •	71
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Labour and Machinery Use				73

#### THE PREPARATION OF RESULTS

The method of preparing financial and physical information for analysis and comparison has been given in some detail in publications such as "The Farm as a Business" (H.M.S.O.). Little needs to be said about the organisation of financial information but experience at Wye College has shown that careful preparation and reconciliation of physical data, such as feed use, crop acreages and livestock numbers, is an essential process. In addition to giving details of method, the factors used to calculate standard output and work unit requirements, etc., are set out in order to indicate the factors considered appropriate for use in South-East England. A further purpose in discussing the calculation of standard output is to assist in the accurate classification of farms for purposes of comparative analysis.

#### FINANCIAL RESULTS

In order to provide results suitable for comparison the following adjustments should be made to the financial accounts.

- Landlord's expenses and all interest charges should be omitted.
- 2. A rental charge should be made on owner-occupied farms and a charge should be included for all unpaid *manual* labour.
- 3. Details of output should replace sales:—
  Output=(Sales plus Closing Valuation) less (Opening Valuation.)
  (In the case of Livestock, purchases should also be deducted from sales).
- 4. Purchases of Fertilizers, Seeds, Feedingstuffs and Stores should be adjusted for valuation changes:—

Expenditure=(Purchases plus Opening Valuation) less (Closing Valuation).

5. The following items of output and expenditure should be prepared:—

Expenditure Output Cattle Feedingstuffs Sheep and Wool Seeds **Fertilizers** Pigs Rent and Rates Poultry and Eggs Labour—paid unpaid Total Livestock Output Power and Machinery Crops Sundries Sundries Total Expenditure Total Output

6. Net Output is obtained by deducting expenditure on Seeds and Feedingstuffs from Total Output.

8. Profit or Management and Investment Income is the difference between Total Output and Total Expenditure. Thus defined, Profit is the sum available to remunerate the farmer for his managerial services and pay interest on all the tenant's farming capital.

#### PHYSICAL AND ECONOMIC DATA

In addition to financial results, economic data is required in the form of Efficiency Standards. These are prepared from the following information:—

1. Standard Output of the Farm.

2. Livestock Units.

3. Acreages of Feed Crops.

4. Starch Equivalent Requirements of Livestock.

5. Man and Tractor Work Requirements.

#### THE STANDARD OUTPUT OF THE FARM

Standard Output indicates the estimated value of the output arising from the stocking and cropping of the farm assuming average physical yields and prices. In order to calculate standard output of crops, adjustments have to be made to the acreages of the latter since crop years do not necessarily coincide with accounting years. For this reason sales of crops, and stocks of crop products in the opening and closing inventories, should be converted into acreage terms as follows:—

## ACREAGE EQUIVALENT

Type of Crop. Sales + Closing - Opening = Output Valuation Valuation Acres

Output Acres × Standard Output Factor = Standard Output of Crops

The standard output factors for crops are given on page 76. It should be noted that where the Opening Valuation Acreage of a crop exceeds the combined sales and closing valuation acreage, both a negative output acreage and standard output will result. It should also be noted that since the output factors for barley and oats do not include the deficiency payment element, the actual receipts for these deficiency payments should be included in the total standard output of crops.

The standard output of Livestock is calculated from the average number of livestock, using the factors given on page 77. The average numbers of stock, such as cows, ewes, sows, etc., should be based upon details contained with opening and closing valuation supplemented, where possible, from other sources, such as agricultural census returns.

In the case of pigs, other than sows and boars, the following calculation should be made of 'other pig units.'

Pig Units

Produced

	rounceu	118 011115
Heavy Hogs & Gilts	x 0.6	······································
Baconers	x 0.5	
Porkers	x 0.3	
*Stores	x 0.2	
	Total	
*The number of store pigs pin valuation:—	produced should be adju	sted for changes
(No.sold + transferred out + C	No. produced =  Closing Valuation) - (Open	ing Valuation No.)
It is also necessary to numbers and the average r those in lay for only part of	o take account of cha number of hens should the year:—	nges in poultry take account of
Hens in lay at beginning of	year less culls	
x <u></u>	months in lay =	
Pullets into lay during year	less culls	
x12	months in lay =	
	Average number of lay	ers
In the case of 'other should be converted into "	poultry,' the number of Other Poultry Units "a	f birds produced is follows:—
	Numbers Hatched or Purchased	Other d Poultry Units
Day-Old Chicks, etc., reare	d 5 monthsx	. 0.6
Capons, etc. ,,	4 ,,x	0.5
Broilers, etc. ,,	3 ,,	0.4
Pullets, etc. ,,	2 ,, or lessx	x 0.2
Turkeys	X	2.0

Allowance should be made for part reared birds listed in the opening or closing valuations.

Total

#### LIVESTOCK UNITS

The number of livestock units may be determined from the average numbers of animals, using the factors given on page 77. In order to differentiate between the total number of livestock units and the number of *productive* livestock units, male breeding animals and horses should be deducted

#### ACREAGES OF FEED CROPS

The area of home-grown feed crops (Farm Feed Acres) is the total area of crops and grass, less that devoted to sale crops, and adjusted for the average equivalent of crops in stock at the beginning and end of the accounting period. The calculation is readily made by deducting (or adding if negative), the Total Output Acreage previously calculated (page 67) from the total area of crops and grass:—

,		•	Acres	
Total	area of crops a	nd grass	Acres	
<u>.</u>				
less ]	Total output acre	es (page 67)		
	Farm Feed	d Acreage		
The area deducting fror livestock.	of Forage Crop n the Farm Fee	os and Grass m d Acreage the a	ay be determine of cereals	ned by fed to
			Acres	
Total	area of all cerea	als		
less	Output acreage	e of all cereals		
	Feed Cereal	Acreage		
Where the added to the a mined as follo	e output acreage area grown. The ws:—	e of cereals is a e Forage Acrea	negative it sho ge can then b	ould be e deter-
			Acres	s
Farm	Feed Acreage		•	
less I	Feed Cereal Acre	age		
	Acreage of 1	Forage and Grass	s —	

Finally, the Adjusted Feed Acreage should be calculated. This is done by converting the quantity of purchased feed used into an acreage equivalent and adding it to the Farm Feed Acreage.

Purchased Feed	* To	ns Used		Acreage
Concentrates	10	. is obew	x 1	•
Hay	***************************************		$x \frac{1}{2}$	***************************************
Wet Grains etc.			X 1/4	
Total Acreage Equ	ivalent o	of Purcha	sed Feed	
Add Farm Feed A	creage			
	Adjusted	Feed Ac	reage	}
* Tons Used = (Opening Sto	cks +	Purchases	r) – Cl	osing Stocks
STARCH EQUIVALENT R	EQUIR	EMENT	S OF L	IVESTOCK
The requirements of start the average numbers of livest the factors given on page 77 estimated to have been obtain be calculated by deducting feed, as follows:—	ock, production of the contract of the contrac	eviously amount home-g	ascertain of starc rown fee	ed, by using h equivalent d crops may
· · · · · · · · · · · · · · · · · · ·				Cwt
Total Starch Equivalent	requir	ed	• •	
Tons used				
Concentratesx	14			
Hayx	6			
Wet Grains x etc.  deduct Total S.E. in pu	-			
Home-grown S.E. utilised				

#### MAN AND TRACTOR WORK REQUIREMENTS

The estimates of man and tractor work requirements are based on the assumption that average amounts of time suffice to grow an acre of a crop or tend an animal for a year. The suggested factors are listed on pages 76 and 77. In the case of crops the calculations should be related to the actual work acreage, which may exceed the area of crops and grass, by taking into account catch crops and second cuts of hay, etc. An allowance of 15%, to cover general overhead work, should be added to the total of crop and livestock work requirements.

#### EFFICIENCY STANDARDS

With the information thus prepared, a selected range of efficiency standards may be calculated for use in the first stage of the farm business analysis. Further indicators may subsequently be prepared as the need for particular pieces of supplementary evidence becomes apparent.

In the first phase of analysis, four groups of standards are examined which throw light upon the following main aspects of the business structure and performance:—

- (a) System and Organisation
- (b) Yields
- (c) The Feed Economy
- (d) Labour and Machinery Use.

Details of the calculation of the basic efficiency standards are given on pages 74 and 75.

## System or Organization Indicators

An unsatisfactory farm profit may be the consequence of an inadequate output, excessive expenditure, or a combination of both. If comparative results show the output to be low, the cause may lie in either the intensity of the farming system, in the yields obtained, or in a combination of both. (Yield, in the economic sense, includes both physical yields and produce sale prices).

The influence of the existing pattern of cropping and stocking of a farm on the level of output may be investigated by means of the System Index. If average physical and financial yields are used to replace the yields and prices actually obtained the 'intensity' of the farming system can be compared with the average or standard for a group of similar farms. A relatively low System Index may be economically justifiable where, for example, the level of expenditure is also low, or where shortage of capital is a factor limiting investment in crops and livestock. However, a low System Index may be associated with either:

(a) Fewer enterprises than average, or

(b) Enterprises of smaller than average size, or

- (c) Enterprises of a relatively extensive nature (low output) or
- (d) A combination of the above.

In order to check the position regarding the extent or intensity of sale and feed crop production and livestock production, further standards are needed. These include indicators such as Farm Feed Acres per 100 acres, Livestock Units per 100 acres and Percentage of Intensive Livestock. (Crop and Livestock System Indices may be calculated if necessary).

#### Indicators of Yield

Yield is the factor, other than intensity of system, which determines what level of output will be obtained on a given farm. The preparation of indexes of yields is often necessary because few farmers know accurately the physical yields of their crops and livestock. Nor can they easily make full allowances for the prices received for sale products. The overall position regarding yields can be measured by preparing an index of all yields and comparing this with the standard for similar farms.

Where a low yield index occurs it may be due to one or more of the following factors:—

(a) Below average crop yields,

(b) Below average livestock yields,

- (c) Loss of nutrients from home-grown foodstuffs during conservation or utilization,
- (d) Below average quality sale products,

(c) Unfavourable prices for sale products.

In order to trace the cause of poor results further it may be necessary to consider other indicators of efficiency, such as Crop or Livestock Yield Indexes, Output per Livestock Unit, Milk Yield and Milk Sales per cow, etc.

## The Feed Economy

On farms where livestock are at all important it is essential to consider the efficiency of feed production and utilisation. A number of efficiency standards may be calculated of which the most important is Livestock Output per Adjusted Feed Acre. A comparatively low level of output is acceptable where it can be demonstrated that a higher rate would increase purchased and home-grown feed costs disproportionately. If Output per Adjusted Feed Acre is low this may be associated with:—

- (a) A low level of output per livestock unit (see above),
- (b) Above average outlay on purchased feed,
- (c) Inefficient production, conservation or utilization of home-grown feed.

Further standards, such as Forage Acres per Grazing Livestock Unit, Farm Feed Acres per Livestock Unit, and Utilised Starch Equivalent per Farm Feed Acre are means of gauging the efficiency of home-grown feed production and utilization. On dairy farms too, Milk Sales per Adjusted Feed Acre may be a useful indicator of the conversion ability of dairy stock.

#### Labour and Machinery Use

The measurement of the efficiency of labour and machinery use is obstructed by the difficulty of obtaining quantitative data relating to the influence of building and equipment, etc., on production. However, the relationship between output and the cost of labour and machinery services provides a basis for analysis. If Labour and Machinery Costs are high per £100 Net Output, this may be associated with:—

- (a) A low level of Net Output (see above),
- (b) Excessive numbers of workers and amount of equipment,
- (c) Expensive labour and machinery,
- (d) Inadequate buildings, equipment or machinery,
- (e) Inefficient methods and work routines.

Reference to Labour Cost per 100 Man Work Units will indicate whether payments are high relative to the estimated amount of productive work required. Similar evidence may be prepared with respect to mechanical services (Power and Machinery Costs per 1,000 Tractor work Units).

## LIST OF EFFICIENCY STANDARDS

## 1. Farm System or Organization

System Index	. =	Standard Output of Crops and Livestock	100
		Acres of Crops and Grass x 40	x <u></u>
Livestock System Index	. =	Standard Output of Livestock	100
		Adjusted Feed Acres x 30	1
Crop System Index	. =	Standard Output of Crops	100
		Crop Output Acres x 40	1
Farm Feed Acres per 100 acres	=	Farm Feed Acres	100
		Acres of Crops and Grass	1
Livestock Units per 100 acres		Total Livestock Units	100
and the second		Acres of Crops and Grass	1
Percentage of Intensive Livestoo	:k =	Pig, Poultry, Dairy Cow Livestock Units	100
•		Total Productive Livestock Un	its 1

#### 2. Yields

Index of all Yields	•••	=	Total Farm Output 100
			Total Standard Output 1
Crop Yield Index		=	Total Crop Output 100
			Standard Output of Crops 1
Livestock Yield Index		_	Total Livestock Output 100
			Standard Output of Livestock 1
Output per Livestock Unit	•••	==	Total Livestock Output
			Total Productive Livestock Units
Milk Yield per Cow	•••	=	Total Gallons Produced
			Average Number of Cows in herd
Milk Sales per Cow		=	Total Value of Milk Sold
			Average number of Cows in herd

## 3. The Feed Economy

4.

Livestock Output per Adjusted Feed Acre =	Total Livestock Output  Adjusted Feed Acres					
Adjusted Feed Acres per Live- stock Unit =	= Adjusted Feed Acres  Total Livestock Units					
Farm Feed Acres per Livestock Unit =	= Farm Feed Acres Total Livestock Units					
Forage Acres per Grazing Live- stock Unit =	Farm Feed Acres less Feed Cereals Acs. Total Grazing Livestock Units					
Utilized Starch Equivalent per Farm Feed Acre =	Total Utilized Starch Equivalent (cwt) Farm Feed Acres					
Milk Sales per Adjusted Feed Acre =	= Milk Sales per cow  Adjusted Feed Acres per Livestock Unit					
	Ont.					
Labour and Machinery Use	·					
Labour and Machinery Use  Labour & Machinery Cost per £100 Net Output =	$= \frac{Total\ Cost\ of\ Labour\ and}{Machinery} = \frac{100}{\text{Total\ Net\ Output}} \times \frac{1}{1}$					
Labour & Machinery Cost	Total Cost of Labour and  = Machinery 100					
Labour & Machinery Cost per £100 Net Output =	$= \frac{Total \ Cost \ of \ Labour \ and}{Machinery} = \frac{100}{1}$ $= \frac{Total \ Net \ Output}{Total \ Cost \ of \ Labour} = \frac{100}{x}$					
Labour & Machinery Cost per £100 Net Output =  Labour Cost per 100 man work units =  Power & Machinery Costs* per 1,000 Tractor Units =	$= \frac{Total Cost of Labour and}{Machinery} \times \frac{100}{1}$ $= \frac{Total Cost of Labour}{Total Man Work Units} \times \frac{100}{1}$ $= \frac{Total Power & Machinery Costs}{Total Tractor Units} \times \frac{1000}{1}$					
Labour & Machinery Cost per £100 Net Output =  Labour Cost per 100 man work units =  Power & Machinery Costs* per 1,000 Tractor Units =	$= \frac{Total Cost of Labour and}{Machinery} \times \frac{100}{1}$ $= \frac{Total Cost of Labour}{Total Man Work Units} \times \frac{100}{1}$ $= \frac{Total Power & Machinery Costs}{Total Tractor Units} \times \frac{1000}{1}$					
Labour & Machinery Cost per £100 Net Output =  Labour Cost per 100 man work units =  Power & Machinery Costs* per 1,000 Tractor Units =	$= \frac{Total Cost of Labour and}{Machinery} \times \frac{100}{1}$ $= \frac{Total Net Output}{Total Net Output} \times \frac{100}{1}$ $= \frac{Total Cost of Labour}{Total Man Work Units} \times \frac{100}{1}$ $= \frac{Total Power & Machinery Costs}{Total Tractor Units} \times \frac{1000}{1}$ calculated i.e.					
Labour & Machinery Cost per £100 Net Output =  Labour Cost per 100 man work units =  Power & Machinery Costs* per 1,000 Tractor Units =	$= \frac{Total Cost of Labour and}{Machinery} \times \frac{100}{1}$ $= \frac{Total Net Output}{Total Net Output} \times \frac{100}{1}$ $= \frac{Total Cost of Labour}{Total Man Work Units} \times \frac{100}{1}$ $= \frac{Total Power & Machinery Costs}{Total Tractor Units} \times \frac{1000}{1}$ calculated i.e.					

## FACTORS FOR CALCULATING STANDARD OUTPUTS OF CROPS, AND MAN AND TRACTOR WORK UNIT REQUIREMENTS.

#### Per Acre

Type of Crop		Standard Output £	Man Work Units	Tractor Units
Cereals & Pulse		~		
Wheat—combined		35	2*	12
Barley—Combined		25	2*	12
Beans, Oats, Mixed Corn	•••	25	2*	12
Peas—canning		50	2 <u>1</u>	12
,, threshing	•••	40	4	12
Roots				
Potatoes		110	20	35
Sugar Beet	•••	75	18	35
Feed Roots—cut	•••	20	13	35
,, ,, folded	•••	20	3	33 12
Forage—folded	•••	5	2	3
Bare Fallow			1	8
Vegetables and Market Garden				
Brassicas	•••	150	25	13
Salad Crops	•••	500	90	?
Tomatoes—outdoor	•••	600	35	?
Peas—picking	•••	150	35	10
Runner Beans	•••	250	70	70
Sale Roots	•••	110	20	15
Hops and Fruit				
Hops—machine picked		325	60	160
" hand picked		350	100	55
Top Fruit—dessert		250	45	30
" " culinary		150	38	30
Strawberries		300	40	20
Raspberries, Gooseberries	•••	175	40	20
Grass				
Hay and Silage—1st cut		10	2	9
,, ,, ,, 2nd cut		10	<u>1</u>	5
Grass Seed		40	3	12
Pasture		10	$\frac{1}{2}$	3

<sup>\*</sup> Where cereals are cut by binder 4 Man Work Units are required per acre.

# FACTORS FOR CALCULATING STANDARD OUTPUTS OF LIVESTOCK, LIVESTOCK UNITS, STARCH EQUIVALENT REQUIREMENTS AND MAN AND TRACTOR WORK UNIT REQUIREMENTS

#### Per Head

Class of	Livestock			ndard Jutput £	Livestock Units R	Starch Equiv. equirements cwt		Tractor Units
				20		22	35	7
Beef Cows			•••	30	1	22	33 12	7 8
Dairy Cows-				110	1	22		
	cowshed	l milked	•••	110	1	22	18	8
Bulls	•••	•••	•••		1	22	3	7
Other Cattle-		•		30	0.8	27	3	7
	•	ears old		30	0.6	20	3	5 3
	under 1	year old	•••	30	0.4	13	4.5	3
Sheep								
Kent Ewes				8	0.25	9	1	1.5
Other Ewes	•••	•••	•••	10	0.25	9	1	1.5
Rams	•••	•••	•••	10	0.23	4	1	1.5
			•••	6	0.1	4	0.3	1
Other Sheep	over 6 m	ontns	•••	o	0.1	<b></b>	0.5	1
Pigs								
Sows				70	0.5	17	6	2.5
Boars		•••			0.25	10	2	0.5
Other Pig U	nits	•••		22	0.3	11	1.5	0.8
Poultry								
•				2	0.02	0.7	0.25	0.04
Hens	***	•••	•••	2	0.02	•••	0.25	0.04
Other Poultr	y Units	•••	•••	1	0.008	0.2	0.25	0.04
Horses	•••				. 1	22	10	_
Milk per gallo	n produc	ed				0.023		<del></del>