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University of Reading
Department of
Agricultural Economics & Management

A NATIONAL BEEF SURVEY

J.A.L DENCH AND R.L VAUGHAN GIANNINI FOUNDATION OF ECONOMICS

GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS

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1981

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A NATIONAL BEEF SURVEY

A Random Sample Economic Study of lowland beef production in 1978-9 together with some results from a Structure Survey of beef production carried out in 1976.

J. A. L. Dench

and

R. L. Vaughan

Economic Report No. 78

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FOREWORD

AGRICULTURAL ENTERPRISE STUDIES IN ENGLAND AND WALES

University departments of Agricultural Economics in England and Wales have for many years undertaken economic studies of crop and livestock enterprises, receiving financial and technical support from the Ministry of Agriculture, Fisheries and Food.

The departments in different regions of the country conduct joint studies of those enterprises in which they have a particular interest. This community of interest is recognised by issuing enterprise studies reports prepared and published by individual departments in a common series entitled 'Agricultural Enterprise Studies in England and Wales'.

Titles of recent publications in this series and the addresses of the University departments are given at the end of the report.

PREFACE AND ACKNOWLEDGEMENTS

The results presented in this report summarize data collected in the first economic survey of beef production to be attempted on a national random sample basis. They therefore do not attempt to describe any particular system or systems of beef production but rather, the economic structure of the very mixed collection of beef enterprises which constitute the majority of the beef-producing units in England and Wales.

The design and execution of the Survey was a joint exercise to which eight University Departments and one College Department of Agricultural Economics* conducting enterprise surveys in England and Wales all contributed. Co-ordination of the Survey has been the responsibility of the Department of Agricultural Economics and Management at the University of Reading.

Grateful thanks are due to all the co-operating farmers who took so much trouble to provide the basic information and who awaited the results so patiently. Also to colleagues at all nine centres who helped in the design of the study and who subsequently collected the data and forwarded it to us. The unavoidable delay in publishing this report has been due to the innovatory nature of the study.

The report has been typed by Mrs. D. R. Turner.

^{*} See page 71.

INTRODUCTORY NOTES AND COMMENT

A primary objective of the study reported here was to assess the feasability of conducting surveys of beef production on a national random sample basis. Additionally it was hoped that the survey would gather useful information on the economics of beef production.

Lowland beef production in England and Wales exhibits wide variety in systems of production, and in combinations of systems on individual farms. Further, the production cycle from calf to finished animal is frequently broken up into several intermediate stages which take place on different farms. For these reasons the greater part of beef production in this country is not readily classified as belonging to any particular system. Most economic studies have, however, been confined to the examination of certain well defined systems so that their results cannot readily be used to indicate the economics of national beef production. This study represents an attempt to remedy that situation.

The Sample

The total sample consisted of 200 lowland farms, having ten or more male cattle under two years old. The regional distribution and stratification of this sample, shown in Table 2, was based on an analysis of the 1977 June census; stratification into size groups being on the number of male cattle under two years old on each farm. Table 1 shows the total number of holdings from which the sample was drawn and the sampling fractions used. The latter were calculated so that the number of farms selected in each size group was proportional to the total number of cattle in that group.

Table 1.

Male cattle under two years old on holdings with ten or more. England and Wales, June 1977

Number of cattle per farm	10 - 29	30 - 99	100 & over	Total
Number of holdings (a)	25,281	16,053	2,614	43,948
Number of cattle	439,974	808,077	430,799	1.678,850
Percentage of holdings	57•5	36.5	6.0	1.00
Percentage of cattle	26.2	48.1	25•7	100
Number of farms in the sample (b)	52	96	52	200
Sampling fraction (b/a)	1/ ₄₈₆	1/167	1/ ₅₀	

Table 2.

Regional distribution of the original sample

Size group	Number	Number of male cattle under 2 years June 1977							
University province	10-29	30-99	100 and over	Total					
	Number of farms								
Aberystwyth	7	8	3	18					
Askham Bryan	6	10	7	23					
Cambridge	3	7	7	17					
Exeter	10	15	6	31					
Manchester	4	10	3	17					
Newcastle	5	10	5	20					
Nottingham	5	11	6	22					
Reading	9	20	12	41					
Wye College	3	5	3	11					
Total	52	96	52	200					

The final sample, for which completed records were obtained, consisted of 193 farms and tables showing its regional size distribution will be found on pages 10, 30 and 51. It will be seen from the size distribution of this final sample that it included a rather greater proportion of small enterprises than the 1977 national distribution.

Duration and scope of the Survey

The survey covered a twelve month period from April 1978 to March 1979, the exact starting date on individual farms being varied where necessary to coincide with the end of the winter feeding period. Physical and financial details were collected for the whole beef enterprise on each farm.

Presentation of the Results

The results from the 193 farms have been grouped for analysis on four different bases, and separate sections of the report are devoted to each basis of grouping:

- On the basis of beef cattle intake: Section I with a pink title page.
- 2. On the basis of beef cattle output (disposals):

 Section II with a blue title page.
- On the basis of standard man-day type of farming class of each farm:
 Section III with a green title page.
- 4. On the basis of size of beef unit in terms of the average number of livestock-units during 1978-79:

 Section IV with a gold title page.

Each section is in effect a separate report which presents all the survey data from a particular and different viewpoint. Sections I, II and III are very similar in layout whilst Section IV is rather shorter. All the tables have been compiled from weighted averages i.e. larger enterprises carry proportionately greater weight than smaller ones. A brief interim report showing unweighted averages has already been given limited circulation and is available on request from the Department of Agricultural Economics and Management, University of Reading.

Comment

The period covered by this survey, April 1978 to April 1979, was characterised by the absence of any significant fluctuation in the market prices for beef cattle. There is thus little or no element of livestock appreciation or depreciation attributable to price fluctuation in these results. Further, while the period was not a prosperous one for beef producers this was not due to any marked extent to seasonal or weather conditions.

The average net margin for the 193 farms was poor, being little better than a break-even figure but the better (premium) producers, as measured by their margin per £100 of output, in all groups achieved quite satisfactory average margins. It is also interesting to note that the results presented in Section IV show a remarkably consistent trend of improvement in average net margin with increasing size of beef unit. Other groups which did rather better than the sample as a whole were those with a substantial involvement in calf rearing or store selling.

The tables which follow are presented without commentary but it is hoped that they will never-the-less be understandable and that from them farmers, advisers and statisticians will be able to assess the contribution which this type of survey can make towards meeting their particular needs.

IMPORTANT NOTE on conventions used in the tables in this report.

- 1. All figures (other than the number of farms) have been rounded and consequently may not add to the totals shown.
- 2. A may indicate zero or less than 0.5 of the lowest digit, i.e. 0.05 if the table shows figures to one decimal place, or 0.5 if only whole numbers are given.
- The number of farms in the groups shown in a particular table may not add to the 'whole sample' number because averages for groups of less than four farms have been omitted.

SECTION I

Survey results for beef enterprises grouped on the basis of their beef cattle intake.

CLASSIFICATION ON THE BASIS OF BEEF CATTLE INTAKE

Type of Intake	Group
Over 50% as calves 3 months old or less, of which 50% or more wer	e :
Home bred single suckled calves	. 1
Home bred dairy calves	2
Home bred dairy and single suckled calves	3
Purchased calves	4
Calves of mixed origins	5
50% or more as stores	
Over 3 and up to 12 months old	6
Over 12 and up to 18 months old	7
Over 18 and up to 24 " "	8
Over 24 months old	9
Mixed ages, no age groups accounting for 50% of cattle intake	10
Nil intake during 1978/79	11

Note More specialised types can be obtained by using a factor greater than 50%, but at the expense of increasing the proportion of samples in the "mixed" groups. See Tables

DISTRIBUTION OF INTAKE GROUPS BY UNIVERSITY CENTRE

INTAKE GROUP (1) UNIVERSITY	1	2	4	6	7	8	9	10	11	TOTAL
OR COLLEGE CENTRE (2)								*.		
				Number	of	farms			•	
Aberystwyth	1	4	4	-	. 5		-	1	1	16
Askham Bryan College	4	1	7	5	2	1	1	2	. 1	24
Cambridge	- 4	_	5	1	2	-	-	2	1	15
Exeter	6	10	13	4	4	.	.=	2	-	39
Manchester	1	11	2	1	-	-	-	-	-	15
Newcastle	3	6	5	3	4	. -	-	1	_	22
Nottingham	3	3	3	4	1		-	2	-	16
Reading	6	5	11	-	9	1	-	1	2	35
Wye College	4	1	2	1	2	-,	-	-	1	11
Total	32	41	- 52	19	29	2	1	11	6	193

⁽¹⁾ See page 9

⁽²⁾ For counties covered by each University/College see Appendix II

AVERAGE CROPPING (Ha.) PER FARM: INTAKE GROUPS

Group	1	2	4	6	7,8 & 9	10/11	Whole Sample 193	
Number of Farms	32	41	52	19	32	17		
		He	ectáres					
Cropping								
Cereals	134.5	24.4	29.7	46.8	50.1	45.6	52.4	
Sugar beet	4.0	0.3	1.6	1.2	2.6	1.9	1.8	
Potatoes	1.3	0.7	1.6	3.5	1.9	2.9	1.7	
Horticulture	1.1	•••	1.6	0.4	4.0	, - *.	1.3	
Herbage Seed		0.3	-	-		<u></u> '	0.1	
Other cash crops	8.6	0.1	1.5	0.3	2.4	1.6	2.4	
Fodder crops	5.4	2.0	1.1	2.2	1.5	1.5	2.2	
Permanent pasture	51.9	46.8	25.2	23.1	37.1	34.1	36.8	
Leys	41.3	38.4	15.8	27.9	25.0	14.0	27.4	
Rough grazing	9.3	3.6	2.6	5.2	1.7	0.2	3.8	
Other	3.8	1.3	2.7	1.6	3.5	1.4	2.5	
Total	261.1	118.0	83.4	112.1	129.8	103.2	132.4	

AVERAGE STOCKING PER FARM: INTAKE GROUPS

Group	1	2	4	6	7,8 & 9	10/11	Whole Sample	
Number of Farms	32	41	52	19	32	17	193	
			Head of	stock				
Type of stock								
Dairy cows	0.1	77.6	2.5	-	9.7	5.6	19.3	
Beef cows	76.7	1.1	7.0	10.1	5.7	5.5	17.3	
Other cattle	110.2	142.8	104.9	101.7	128.7	107.0	117.6	
Sheep: ewes	172.6	44.8	61.7	77.5	107.3	43.6	84.0	
other sheep over 6 months	7.3	32.1	18.8	22.3	44.5	26.2	25.0	
Pigs: sows	2.0	6.9	8.0	9.7	3.6	1.5	5.6	
other pigs	18.4	55.6	36.9	59.6	26.9	6.5	35.7	
Poultry	1.6	2.2	1029.7		-	211.8	296.8	
Horses Etc.	0.2	0.1	1.1	0.2	0.1	0.7	0.5	

AVERAGE OUTPUT, COSTS, MARGIN AND CAPITAL PER FARM: INTAKE GROUPS

	1	2	4	6	7,8 & 9	10/11	Whole
Group							Sample
Number of Farms	32	41	52	19	32	17	193
	£	£	£	£ 13266	£	£ 14483	£ 15534
Output	21498	13110	16217	13200	13474	14403	10004
Costs	3548	4164	5706	3804	3811	5784	4526
Concentrates Purchased fodder	175	59	157	233	244	154	161
	2545	981	985	1410	1105	915	1298
Fertilizer Other variable costs of fodder							
Sprays	• 38	29	30	18	10	15	25
Seed	299	149	127	193	174	85	171
Contract	200	11	122	75	80	46	93
Bought grass	83	140	90	84	439	10	150
Miscellaneous	178	65	107	111	108	76	108
Total	798	393	476	481	811	233	547
	100						
Other variable costs of beef:	1 1 1	100	118	200	308	. 163	163
Transport	144	108	388	200 278	211	288	321
Vet. and medicines	459	249	280	324	305	170	254
Miscellaneous	335 938	120 477	786	802	823	620	738
Total							
Labour for beef	2460	1535	2286	2146	1646	2254	2033
Tractors, motor vehicles and				=00	70 0	744	000
equipment used for beef	1394	632	1038	782	798	744	920
Share of labour, tractor & macl	h.						
costs for forage prodn. &					4 = = 4	4400	4000
field maintenance	3071	1404	1873	2189	1554	1182	
Rental value of forage area	3479	1058	1472	2163	1773	1120	
General farm overheads	2638	1104	1331	1578	1388	1241	1525
Total costs	21044	11808	16110	15588	13953	14247	15441
Net Margin (over above costs)	453	1303	107	-2322	-479	237	94
<u>Capital</u>	2						
Cattle in opening valuation	39046	15303	21247	28250	22303	20737	23755
Beef equipment	1520	855	1507	1119	1310	669	1226
Share of grass & forage							
equipment	3049	1753	2007	1845	1869	1243	2019
Total	43615	17911	24761_	31214	25482	22649	27000
		4.004	0044	2952	2153	2679	2696
Total labour input	3632	1964	2944	1014	636	770	
Total tractor input	1734 1 351	675 743	1067 1016	942	881	543	
Total machinery input	1991	745	1010	<i>5-</i> 12	001		
Subsidies (excl. F.S. prems.)		20	4 00	4.44	10	255	128
included in output	131	68	177	141	48	200	120
Physical inputs and production							
Labour hours to beef Hrs.	1537	960	1429	1342	1029	1409	
Labout Hours to beer 1115.	83	25	36	46	41	32	
Forego area used for heaf He							
Forage area used for beef Ha.		23	35	45	39	32	41
- of which grass area = Ha.	80	23	35	45	39	32	41
- of which grass area = Ha. Livestock units of beef	80				39 59	32 54	
of which grass area = Ha.Livestock units of beefaverage during the year		23 46	35 58	45 63			
- of which grass area = Ha. Livestock units of beef	80						63

PERFORMANCE IN RELATION TO OUTPUT, LAND, CAPITAL AND BEEF LIVESTOCK UNITS: INTAKE GROUPS

	INTA	KE GROUP	S				
Group	1	2	4	6	7,8 & 9	10/11	Whole sample
Number of farms	32	41	52	19	32	17	193
Average forage area for beef ha.	82.7	25.4	36.3	45.7	40.9	32.2	43.0
PERFORMANCE IN RELATION TO OUTPUT	PER £	100 OF O	UTPUT)	•			
Costs	£	£	£	£	£	£	£
Concentrates	16.5	31.8	35.2	28.7	28.3	39.9	29.1
Purchased Fodder	0.8	0.4	1.0	1.8	1.8	1.1	1.0
Fertilizer	11.8	7.5	6.1	10.6	8.2	6.3	8.4
Other variable costs of forage	3.7	3.0	2.9	3,6	6.0	1.6	3.5
Other variable costs for beef	4.4	3.6	4.8	6.0	6.1	4.3	4.8
Total variable costs	37.2	46.3	50.0	50.7	50.4	53.2	46.8
Gross Margin	62.7	53.7	50.0	49.3	49.6	46.8	53.2
Labour for beef	11.4	11.7	14.1	16.2	12.2	15.6	13.1 5.9
Tr. Mv. & Equip. used for beef Share of labour & machinery for	6.5	4.8	6.4	5.9	5.9	5.1	5.9
forage & field maintenance	14.3	10.7	11.6	16.5	11.5	8.2	12.2
Rental value of forage area	16.2	8.1	9.1	16.3	13.2	7.7	11.6
General farm overheads	12.3	8.4	8.2	11.9	10.3	8.6	9.8
Total fixed costs	60.7	43.7	49.3	66.8	53.1	45.2	52.6
Total costs	97.9	90.0	99.3	117.5	103.6	98.4	99.4
Net Margin (over the above costs)	2.1	10.0	0.7	-17.5	-3.6	1.6	0.6
Capital	202.9	136.6	152.7	235.3	189.1	156.4	173.8
Forage area ha.	0.38	0.19	0.22	0.34	0.30	0.22	0.28
Labour hours hrs.		7.3	8.8	10.1	7.6	9.7	8.2
Livestock units of beef	0.49	0.35	0.36	0.48	0.43	0.37	0.41
Liveweight production kg.	109	135	128	137	131	134	126
PERFORMANCE IN RELATION TO LAND U	TOF (DER	и вучт ла в	OF FOR A	GE)			
PERFORMANCE IN RELATION TO DAND (3. CIM	£	£	£	£	.	£
Output	259.9	516.6	447.3	290.2	329.6	449.1	361.3
Costs	254.4	465.3	444.4	340.9	341.3	441.8	359.1
Net Margin	5.5	51.3	3.0	-50.8	-11.7	7.3	2.2
Gross Margin	163.0	277.2	223.6	143.2	163.4	210.1	192.2
Capital	527.3	705.8	683.0	682.7	623.3	702.3	628.0
Labour hours hrs.	19	38	39	29	25	44	30
Liveweight production kg.	282	695	573	397	432	602	457
Grassland area to beef ha.	0.96	0.89	0.97	0.98	0.95	0.99	0.96
Nitrogen use on grass kg/ha.	87	82	77	84	75	83	82
PERFORMANCE IN RELATION TO CAPITA	AI. (PER	£100 OF	C ΔΡΙΤΔΙ.)				
I DITORIBUTED IN MARKETON TO CHAIL	£	£	£	£	£	£	£
Output	49.3	73.2	65 . 5	42.5	52.9	63.9	57.5
Costs	48.3	65.9	65.1	49.9	54.8	62.9	57.2
Net Margin	1.0	7.3	0.4	-7.4	-1.9	1.0	0.3
Gross Margin	30.9	39.3	32.7	21.0	26.2	29.9	30.6
Capital (composition)							•
Cattle	89.5	85.4	85.8	90.5	87.5	91.6	88.0
Beef Equipment	3.5	4.8	6.1	3.6	5.1	3.0	4.5
Grass & Forage Equipment	7.0	9.8	8.1	5.9	7.3	5.5	7.5
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PERFORMANCE IN RELATION TO BEEF I					-		
	£	£	£	3.	£	£	£
Output	205.3	287.9	279.0	209.2	230.4	266.8	245.0
Costs	201.0	259.3	277.2	245.8	238.6	262.4	243.5
Net Margin	4.3	28.6	1.8	- 36.6	-8.2	4.4	1.5
Gross Margin	128.7	154.5	139.5	103.2	114.2	124.8 417.2	130.3 425.8
Capital Forage area to beef ha.	$\frac{416.5}{0.79}$	393.3 0.56	426.1 0.62	$\frac{492.2}{0.72}$	435.8 0.70	0.59	0.68
Grassland area to beef ha.	0.79	0.50	0.62	0.72	0.70	0.59	0.65
Labour hours hrs.	15	21	25	21	18	26	20
Liveweight production kg.	223	387	357	286	302	358	310
		•	•	-	-		

ANALYSIS OF CONCENTRATE FEEDING COSTS:

INTAKE GROUPS

						*										
Group	Number of Farms	livesto its	cost p	per it and nal		Percentage composition of summer concentrate feed costs							entage com concentra			
		£/LU S	ummer	Winter	Cereals	Milk & Milk Subs.	Compound	Straight	Minerals & Additive		Cereals	Milk & Milk Subs.	Compound	Straight	Minerals & Additive	
		£	%	%	73	%	%	%	%	%	%	%	%	%	%	%
1	32	34	12	88	55	- , ·	26	-	11	8	62	- ·	18	1	10	9
2	41	92	27	73	33	13	52	1	1	_	37	8	48	1	2	5
4	52	98	18	82	43	6	47	<u>-</u>	3	2	61	4	29	-	2	4
6	19	60	9	91	44	2	34		20	-	85	_	8	-	6	1
7, 8 & 9	32	65	5	95	60	4	17	1	8	11	33	-	45	_ '	2	21
10 & 11	17	107	31	69	49	2	7	17	20	5	65	1	7	15	8	4
Whole Sample	193	71	18	82	43	6	37	4	7	3	55	3	29	2	4	7

COMPOSITION OF BEEF CATTLE INTAKE AND DISPOSAL:

INTAKE GROUPS

Group	1	2	4	6	7,8 & 9	10/11	Whole Sample
Number of Farms	32	41	52	19	32	17	193
Average forage area for beef Ha.	82.7	25.4	36.3	45.7	40.9	32.2	43.0
		•	Number	of head	d per fa	rm	
Intake during year	70	48	66	72	113	82	73
Composition of cattle intake	% .	%	%	%	%	%	%
Single suckle calves, home bred	82	2	8	6	3	6	17
Dairy calves retained for beef		88	1	•	-:	.	13
Purchased calves 0 - 3 months	10	6	86	5	1	18	26
" 3 - 12 "	3		5	78	9	26	14
Purchased stores 12 - 18 "	3	3		9	78	29	25
" 18 - 24 "	2 .			2	7	20	4
u u over 24 "	0	1		-	2	1	1
	100	100	100	100	100	100	100

			v	Number	r of hea	d per	farm .	
Output during year	67	,	43	60	. 81	115	117	74
Composition of cattle outpu	<u>it</u> %		%	%	%	%	%	%
Fat up to 18 months	19	,	16	25	6	7	16	15
Fat 18 - 24 "	24	ŧ	32	30	42	53	46	39
Fat over 24	8	3	14	10	29	23	6	15
Stores up to 12 months	23	- 	13	4	-	•	22	9
" 12 - 18 "	19) .	9	13	14	7	5	11
" 18 - 24 "	. 6	;	12	13	8	9	4	9
over 24 "	. 1		4	5	1	1	1	2
						1		
	100)* ± ;	100	100	100	100.	100	100

ANALYSIS OF CONCENTRATE FEEDING COSTS: PREMIUM FARMS (BEST 25%) IN EACH INTAKE GROUP

Group	Number of Farms	fee lives it di	ed cost stock u cs seas stribu	nit and onal tion		summe	r concent	omposition rate feed	costs			wint	er concent	composition crate feed	costs	
	· .	£/LU	Summer	Winter	Cereals	Milk & Milk sub		Straight	Minerals &	Other	Cereals	Milk & Milk sub		Straight	Mineral: &	otner
						MIIK SUD	3		Additives			millin bub.			Additive	3
		£	%	%	. %	%	%	%	%	%	%	%	%	%	%	%
1	8	35	9	91	45	-	44	_	10	1	66	-	16	1	15	3
2	10	63	22	7 8	34	17	47	1	, - :		44	7	39	3 ,	-	6
4.	12	82	18	82	<i>5</i> 4	9	35		2	-	75	5	15	-	1	3
6	5	76	9	91	24	3	54	-	19		89	· •	5	_	4	2
7	8	54	6	94	77	12	3	_	3	5	55	1	40		3	2
10/11	4	45	14	86	51	10	- -	13	25	-	84	4	7	_	5	-
Whole Sample	48	64	21	79	54	7	26	1	9	3	66	4	19	1 .	6	4

PERFORMANCE IN RELATION TO OUTPUT, LAND, CAPITAL AND BEEF LIVESTOCK UNITS: PREMIUM FARMS (BEST 25%) IN EACH INTAKE GROUP

PREMIUM FAR	MS (BEST	25%) IN	EACH IN	TAKE GRO	UP		
Group	1	2	4	6	7	10/11	Whole Sample
Number of Farms	8	10	12 35.6	5 59.3	8 44 .2	4 28.1	48 45.0
Average forage area for beef ha				JU. 5	11,2	20.1	10.0
PERFORMANCE IN RELATION TO OUTPU							
Costs	£	£	£	£	£	£	£
Concentrates	15.7	21.1	25.4	25.9	21.1	13.0	22.9
Purchased Fodder	1.1	0.0	1.1	3.1	3.5	0.2	1.2
Fertilizer	8.1	5.9	4.2	11.6	6.8	6.1	6.4
Other variable costs of forage		1.7	1.5	2.6	3.9	1.6	2.5
Other variable costs for beef	3.5	2.8	3.9	4.0	4.8	3.0	3.5
Total variable costs	33.2	31.5	36.2	47.2	40.0	23.9	36.3
Gross Margin	66.6	68.5	63.8	52.8	60.0	76.1 8.8	9.0
Labour for beef	9.5	7.0	9.5	8.5	10.7		3.8
Tr. Mv. & Equipment used for bee	f 5.2	2.4	3.3	4.2	5.6	3.9	3.0
Share of lab. & machinery for	n 0	οċ	æ.∵o		9.4	9.9	8.5
forage & field maintenance	9.8	9.5	7.9	9.0		8.1	8.3
Rental value of forage area	11.5	6.2	7.0		8.6	6.8	7.2
General farm overheads	8.8	7.0	5.9	7.4		37.6	36.7
Total fixed costs	44.9	32.2	33.6	38.5	44.3		
Total costs Net Margin (over the above costs	78.1	63.7 36.3	69.8 30.2	85.6 14.4	15.7	38.6	$\frac{73.0}{27.0}$
	171.6	125.7	136.1	147.8	189.4	116.8	146.3
Capital					0.24	0.20	0.20
Forage area ha.	0.27	0.16	0.17	0.23	6.7	5.5	5.6
Labour hours hrs.	5.9	4.4	5.9	5.3	0.39	0.29	0.36
Livestock units of beef	0.45	0.33	0.31	0.34	98	122	119
Liveweight production kg.	98	143	111	125	90	122	115
PERFORMANCE IN RELATION TO LAND	USE (PER	HECTARE	OF FORA	GE)			
	£	£	£	£	£	£	£
Output	372.7	628.4	596.1	440.8	411.1	488.8	494.7
Costs	291.3	400.3	415.9	377.5	346.5	300.3	361.3
Net Margin	81.5	-	180.3	63.3	64.5	188.5	133.4
Gross Margin	248.2	430.6	380.3	232.8	246.5	372.0	314.8
Capital	639.6	789.9	811.3	651.4	778.7	570.8	724.0
Labour hours hrs.	22	28	35	23	27	27	28
Liveweight production kg.	365	898	661	553	403	. 598	591
Grassland area to beef ha.	0.95	0.91	0.98	0.96	0.97	1.00	0.95
Nitrogen use on grass kg/ha.	86	99	69	132	80	125	86
PERFORMANCE IN RELATION TO CAPIT	AL (PER	£100 OF	CAPITAL)	•	•	•	
	£	£	£	£	£	£	£
Output	58.3	79.6	73.5	67.7	52.8	85.6	68.3
Costs	45.5	50.7	51.3	58.0	44.5	52.6	49.9
Net Margin	12.7	28.9	22.2	9.7	8.3	33.0	18.4
Gross Margin	38.8	54.5	46.9	35.7	31.6	65.2	43.5
Capital (composition)			•				
Cattle	93.3	88.4	90.3	90.1	90.4	88.4	91.7
Beef Equipment	2.2	3.0	2.2	4.3	4.4	3.9	2.5
Grass and Forage Equipment	4.5	8.6	7.4	5.6	5.2	7.7	5.8
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PERFORMANCE IN RELATION TO BEEF				UNIT)			
=	£	£	£	£	£	£	£
Output	220.6	300.7	321.9	293.3	256.6	346.1	280.9
Costs	172.4	191.6	224.6	251.2	216.3	212.7	205.2
Net Margin	48.2	109.2	97.3	42.1	40.3	133.5	75.8
Gross Margin	146.9	206.1	205.4	154.9	153.9	263.4	178.8
Capital	378.5	378.0	438.1	433.3	486.1	404.2	411.2
Forage area to beef ha.	0.59	0.48	0.54	0.67	0.62	0.71	0.57
Grassland area to beef ha.	0.56	0.44	0.53	0.64	0.60	0.71	0.54
Labour hours hrs.		13	19	16	17	19	16
Liveweight production kg.	216	430	357	368	251	423	336

COMPOSITION OF BEEF CATTLE INTAKE AND DISPOSAL: PREMIUM FARMS (BEST 25%) IN EACH INTAKE GROUP

Group	1	2	4	6	7	10/11	Whole
Number of farms	8	10	12	5	8	4	Sample 48
Average forage area for beef Ha.	95.6	28.8	35.6	59.3	44.2	28.1	45.0
			Number	of head	per far	n	
Intake_during_year	104	59	68	111	157	113	81
Composition of cattle intake	. 	%	%	%	%	%	%
	8 7	1		6	_	2	26
Single suckle calves, home bred	67				2		19
Dairy calves retained for beef		82	3	-		- -	
Purchased calves 0 - 3 months	. 6	11	91	6	1	9	26
" 3 – 12 ".	6	1	2	69	16	23	12
Purchased stores 12 - 18 "		5	-	15	68	31	9
" 18 - 24 "	1	-		5	â	30	6
" over 24 "	-	1	-	-	5	5	2
	100	100	100	100	100	100	100
	2						
			Number	of head	per far	n	
Output during year	90	51	72	130	164	118	82
Composition of cattle output	%	%	%	%	%	%	%
Fat up to 18 months	29	26	19	12	9	6	19
Fat 18 - 24 "	25	13	41	16	62	59	32
Fat over 24 "		18	9	43	20	16	12
Stores up to 12 months	23	9	1	_		1	11
" 12 - 18 "	20	10	5	29		5	12
	4 0			29	. 1	-	
	-	25	14		8	9	10
" over 24 "	3	-	12		-	5	4
·	100	100	100	100	100	100	100
	100	• 00					

VARIABILITY OF MARGINS PER £100 OUTPUT IN EACH INTAKE GROUP

Intake Group	en e	Gro Range of	up Margins			Premium Farms (Best 25% of Margins Range of Margins)
	Number of farms	Minimum	Maximum	Standard Error	Number of farms	Minimum	Maximum
1	32	-92.2	28.5	4.78	8	17.0	28.5
2	41	-126.9	51.7	5.37	10	21.6	51.7
4	52	-134.7	52.2	4.96	12	13.4	52.2
6	19	-249.8	24.8	15.94	5	-1.2	24.8
7	32	-141.1	35.4	5.69	8	4.8	35.4
10 & 11	17	-120.1	65.9	13.09	4	22.3	65.9
Whole Sample	193	-249.8	65.9	3.04	48	13.7	65,9

PERFORMANCE IN RELATION TO OUTPUT, LAND, CAPITAL AND BEEF LIVESTOCK UNITS:

"PREDOMINANT" INTAKE FARMS IN EACH GROUP (Farms having at least 80% of their beef cattle intake in one type-class) 7 5 2 4 1 Group 19 21 23 33 35 Number of Farms 36.3 49.1 33.6 22.7 81.1 Average forage area for beef Ha. PERFORMANCE IN RELATION TO OUTPUT (PER £100 OF OUTPUT) £ £ £ 27.1 26.6 32.1 37.4 14.5 Concentrates 2.0 0.9 0.6 0.1 Purchased Fodder 0.7 8.7 6.2 8.1 12.4 6.3 Fertilizer 5.4 3.7 .3.8₉ 2.8 3.0 Other variable costs of forage 6.7 4.8 4.4 3.7 4.6 Other variable costs for beef 49.4 43.9 52.2 Total variable costs 36.0 45.0 56.0 50.6 47.8 64.0 55.0 Gross Margin 14.0 15.8 12.2 11.6 11.8 Labour for beef 7.1 5.2 4.46.7 5.1 Tr. Mv. & Equipment used for beef Share of labour & machinery for 12.0 12.9 11.1 11.1 forage and field maintenance 14.0 10.5 13.1 8.2 16.5 7.8 Rental value of forage area 11.0 11.1 8.1 7.3 12.5 General farm overheads 53.9 58.1 44.0 Total fixed costs 61.3 43.9 107.5 97.7 96.2 97.3 88.9 Total costs 2.3 -7.53.8 Net Margin (over the above costs) 2.7 11.1 193.3 151.7 135.6 146.5 Capital 210.3 0.32 0.32 0.20 0.39 0.18 Forage area ha. 9.9 8.8 7.4 7.6 hrs. 7.2 Labour hours 0.45 0.33 0.34 0.41 Livestock units of beef 0.47 136 173 124 106 142 Liveweight production kg. PERFORMANCE IN RELATION TO LAND USE (PER HECTARE OF FORAGE) £ £ £ £ £ 312.2 314.6 257.3 566.4 499.5 Output 305.1 338.1 480.4 250.4 503.8 Costs -23.519.2 7.1 62.7 Net Margin 6.9 159.2 174.8 239.0 Gross Margin 164.7 311.3 473.7 608.1 Capital 541.0 767.8 731.8 31 28 42 38 Labour hours hrs. 19 426 545 620 kg. 273 806 Liveweight production 0.95 .0.85 0.96 0.99 Grassland area to beef ha. . 0.96 50 77 kg/ha. 83 88 Nitrogen use on grass 95 PERFORMANCE IN RELATION TO CAPITAL (PER £100 OF CAPITAL) £ £ £ £ £ 47.6 73.8 68.3 65.9 51.7 Output 55.6 65.6 64.4 46.3 65.6 Costs -3.91.5 2.6 Net Margin 1.3 8.2 36.9 26.2 30.4 40.5 32.7 Gross Margin Capital (composition) 89.8 85.1 88.6 85.4 83.4 Cattle 6.6 3.4 6.4 Beef Equipment 4.3 5.5 8.4 7.1 11.1 8.3 6.8 Grass and Forage Equipment 100.0 100.0 100.0 100.0 100.0 Total PERFORMANCE IN RELATION TO BEEF LIVESTOCK (PER LIVESTOCK UNIT) £ £ £ £ £ 245.1 221.4 293.8 213.9 300.1 Output 239.6 237.9 208.2 266.9 282.6 Costs -16.511.3 5.6 33.2 5.7 Net Margin 137.2 112.0 140.6 136.9 164.9 Gross Margin 430.4 372.0 427.9 449.8 406.7 Capital 0.59 0.53 0.79 0.70 ha. 0.83 Forage area to beef 0.67 0.56 0.77 0.80 0.45 Grassland area to beef ha. 19 22 22 24 15 Labour hours hrs. 427 365 334 384 227 Liveweight production kg.

ANALYSIS OF CONCENTRATE FEEDING COSTS:

"PREDOMINANT" INTAKE FARMS IN EACH GROUP

(Farms having at least 80% of their beef cattle intake in one type-class)

Group	Number of Farms	fe live i	al conce ed cost stock un ts sease istribu	per nit and onal	* · · · · · · · · · · · · · · · · · · ·	Per summe	centage cor r concent	omposition rate feed	of costs					position o		
		£/LU	Summer	Winter	Cereals	Milk & Milk subs.	Compound	Straight	Minerals & Additives		Cereals	Milk & Milk Subs.	Compound	Straight	Minerals & Additives	
		£	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	23	31	9	91	58		22	- -	17	3	56	- .	23	2	13	6
2	33	96	29	71	36	13	49	1	1	. -	36	9	48	1	3	4
4	35	110	19	81	42	6	47	_	3	2	60	4	29	- · · · · · · · · · · · · · · · · · · ·	2	5
5	19	66	16	84	35	10	52		3	1	58	3	31	- '	3	6
7	21	59	5 ~	95	39	* * **	26	·	14	21	22	. -	71	-	2	5

COMPOSITION OF BEEF CATTLE INTAKE AND DISPOSAL:

"PREDOMINANT INTAKE FARMS IN EACH GROUP

(Farms having at least 80% of their beef cattle intake in one type-class)

			•		
Group	1	2	4	5	7
Number of Farms	23	33	35	19	21
Average forage area for beef Ha.	81.1	22.7	36.3	49.1	33.6
		Number	of head	per farm	
Intake during year	62	45	73	57	107
Composition of cattle intake	%	%	%	%	%
Single suckle calves, home bred	93	1	3	34	-
Dairy calves retained for beef	-	98	1	16	·
Purchased calves 0 - 3 months	3	-	94	46	1
" 3 - 12 "	_	-	2	2	2
Purchased stores 12 - 18 "	<u> </u>	1		2	96
" 18 - 24 "	3	-	_	· _	1
" over 24 "		1	-	_	-
	100	100	100	100	100
		Number	of head	per farm	
Output during year	60	41	. 64	54	110
Composition of cattle output	61 10	%	%	%	%
Fat up to 18 months	24	13	31	16	9
Fat 18 - 24 "	6	30	31	31	44
Fat over 24 "	11	14	13	5	20
Stores up to 12 months	31	14	1	12	-
" 12 - 18 "	22	10	10	21	11
" 18 - 24 "	4	15	8	14	14
" over 24 "	1	5	6	1	2
	100	100	100	100	100

PERFORMANCE IN RELATION TO OUTPUT, LAND, CAPITAL AND BEEF LIVESTOCK UNITS: "SPECIALIST" INTAKE FARMS IN EACH GROUP

"SPECIALIST	" INTA	KE FARMS	IN EACH G	ROUP		
(Farms having ALL thei	r beef	cattle i	ntake in	one type-	class)	
					5	7
Group	*	1 10	2 27	4 14	ა 36	14
Number of Farms		56.7	20.1	34.9	54.2	26.5
Average forage area for beef Ha.	·			34.8	54.2	20.0
PERFORMANCE IN RELATION TO OUTPUT (PER £1	00 OF OUT £	PUT) £	£	£	£
Costs		15.4	36.4	42.7	24.8	21.6
Concentrates			0.0	0.5	0.9	1.6
Purchased Fodder		1.6 10.4	7.0	8.3	9.0	10.5
Fertilizer		4.4	3.0	4.1	3.1	5.6
Other variable costs of forage Other variable costs for beef		3.9	4.0	4.4	5.0	6.1
Total variable costs		35.6	50.4	60.1	42.8	45.4
						54.6
Gross Margin		64.4	49.6	39.9	57.2	
Labour for beef		9.7	14.2	10.1	13.6	14.1
Tr. Mv. & Equipment used for beef		7.8	5.7	8.7	4.3	8.5
Share of labour & machinery for					. 40.0	45.5
forage and field maintenance		15.4	11.5	14.6	10.8	15.5
Rental value of forage area		16.4	8.6	9.2	12.0	15.4
General farm overheads		12.8	8.7	7.5	9.9	11.6
Total fixed costs		62.0	48.7	50.1	50.6	65.1
Total costs		97.7	99.1	110.3	93.4	110.5
Net Margin (over the above costs)		2,3	0.9	-10.3	6.6	-10.5
Capital		212.6	135.5	162.1	160.6	210.0
Forage area	ha.	0.39	0.19	0.21	0.29	0.34
Labour hours	hrs.	6.0	8.9	6.3	8.5	8.8
Livestock units of beef		0.51	0.33	0.37	0.38	0.50
Liveweight production	kg.	82	143	145	114	138
PERFORMANCE IN RELATION TO LAND USE	r (PFR	HECTARE C	F FOR AGE	· ·	•	
PERFORMANCE IN RELATION TO DAND OUT	s (I Eit	£	£	£	£	£
Output		255.9	532.9	470.1	345.6	295.1
Costs		250.0	527.9	518.3	323.0	326.1
Net Margin		5.9	5.0	-48.3	22.7	-31.0
Gross Margin		164.7	264.4	187.4	197.7	161.1
Capital		544.1	722.0	761.8	555.2	619.6
Labour hours	hrs.	15	47	30	29	26
Liveweight production	kg.	211	762	682	393	406
Grassland area to beef	ha.	0.99	0.83	0.96	0.96	0.94
Nitrogen use on grass	kg/ha.		89	120	84	96
	- ,					4
PERFORMANCE IN RELATION TO CAPITAL	(PER a	£ CIOO OF CA	APITAL) £	£	£	£
O street		47.0	73.8	61.7	62.3	47.6
Output		47.0	73.0	68.0	58.2	52.6
Costs		1.1	0.7	-6.3	4.1	-5.0
Net Margin		30.3	36.6	24.6		26.0
Gross Margin	•	30.3	30.0	24.0	33.0	20.0
Capital (composition)		86.7	82.3	75.9	91.7	81.2
Cattle		4.6	5.7	11.6	3.1	9.3
Beef Equipment		8.7	12.0	12.5	5.2	9.6
Grass and Forage Equipment Total		100.0	100.0	100.0	100.0	100.0
					100.0	100.0
PERFORMANCE IN RELATION TO BEEF LIV	VESTOCE				0	c
Oceanist		£	£	£ 271 7	£ .	£ 199.0
Output		197.5	306.1		263.9 246.6	219.9
Costs		192.9	303.2	299.5		-20.9
Net Margin		4.6	2.8	-27. 9	17.3	108.6
Gross Margin		127.1	151.8	108.3	150.9	
Capital	1	419.8	414.7	440.3	423.9	417.9
Forage area to beef	ha.	0.77	0.57	0.58	0.76	0.67
Grassland area to beef	ha.	0.76	0.48	0.55	0.73 22	0.63 17
Labour hours	hrs.	12	27	17 394	300	274
Liveweight production	kg.	163	438	3 34	500	217

ANALYSIS OF CONCENTRATE FEEDING COSTS:

"SPECIALIST" INTAKE FARMS IN EACH GROUP

(Farms having ALL their beef cattle intake in one type-class)

Group	Number of farms	fee lives	ed cost	nit and onal			centage concentr	-					centage concentr	-		
		£/LU £	Summer	Winter %	Cereals	Milk & Milk Subs.	Compound	Straigh %	nt Minerals & Additives %		Cereals	Milk & Milk Subs.	Compound	Straight	Mineral & Additive	
1	10	30	11	89	68	-	6	-	19	7	54	-	16	4	14	13
2	27	111	31	69	37	11	50	1	1		37	8	48	1	3	3
4	14	116	20	80	44	4	42	-	5	5	63	4	28	~	2	3
5	36	65	16	84	42	5	48	1	4	-	59	3	29	1	5	4
7	14	43	11	89	47	- -	18		13	22	47	•••	39	_	2	11

COMPOSITION OF BEEF CATTLE DISPOSAL:

"SPECIALIST" INTAKE FARMS IN EACH GROUP

(Farms having ALL their beef cattle intake in one type-class)

Group		1	2	4	5	7
Number of farms		10	27	14	36	14
Average forage area for beef	На.	56.7	20.1	34.9	54.2	26.5
			Number o	of head pe	er farm	
Output during year		53	39	61	61	66
Composition of cattle output		%	%	%	%	%
Fat up to 18 months		24	14	36	19	8
Fat 18 - 24 "		15	32	29	30	23
Fat over 24 "		5	14	9	13	31
Stores up to 12 months		13	18	1	14	. 0
" 12 - 18 "		37	10	12	14	18
" 18 - 24 "		5	5	4	8	14
over 24		0	6	9	2	5
	•	100	100	100	100	100

SECTION II

Survey results for beef enterprises grouped on the basis of their beef cattle output (disposals).

CLASSIFICATION ON THE BASIS OF BEEF CATTLE OUTPUT (DISPOSALS)

Type of Output	Group
50% or more as fat cattle, of which 50% or more were:	
up to 18 months old	1
over 18 and up to 24 months old	2
Over 24 months old	3
mixed ages, no age group accounting for 50% of fat cattle sales	4
Over 50% as stores of which 50% or more were:	
up to 12 months old	5
over 12 and up to 18 months old	6
over 18 and up to 24 ""	7
over 24 months old	8
mixed ages, no age group accounting for 50% of store cattle sales	9
Mixed store and fat, neither category predominating (only	
applicable where a higher classifying factor than 50% is	
used)*	10
Nil sales in 1978/79	11

^{*} Note More specialised types can be obtained by using a factor greater than 50%, but at the expense of increasing the proportion of sample in the "mixed" groups. See Tables

DISTRIBUTION OF OUTPUT GROUPS BY UNIVERSITY CENTRE

OUTPUT GROUP (1) UNIVERSITY	1	2	3	4	5	6	7	8	9	11	Total
OR COLLEGE CENTRE (2)						·					
				Nur	ber (of far	rms				
Aberystwyth	1	2	5	-	-	3	5	-	-	. -	. 16
Askham Bryan College	6	11	3	_	2	2		-	-		24
Cambridge	4	5	2	_	2	1	1	-	-		15
Exeter	2	7	16	1	1	3	5	4	-	-	39
Manchester	-	5	2	-	3	4	1	-	_	-	15
Newcastle	-	8	3	-	3	3	3	1 .	-	1	- 22
Nottingham	2	9	2		-	1	1	1	-	-	16
Reading	4	12	6	•	2	6	3	1	1	_	35
Wye College	-	3	1	-	3	2	2	-		-	11
Total	19	62	40	1	16	25	21	7	1	1	193

⁽¹⁾ See page 29

⁽²⁾ For the counties covered by each University/College see Appendix II.

AVERAGE CROPPING (HE) PER FARM: OUTPUT GROUPS

Type Group	1	2	3	5	6	7/8	Whole Sample 193	
Number of Farms	19	62	40	16	25	28		
Cropping		Hectares						
Cereals	86.5	62.9	46.8	47.9	50.2	22.5	52.4	
Sugar Beet	7.4	1.8	2.1	1.3	_	· -	1.8	
Potatoes	3.1	2.5	1.0	0.6	1.7	1.1	1.7	
Horticulture	4.9	0.1	3.1		0.7	0.5	1.3	
Herbage seed	-	_		***		0.4	0.1	
Other cash crops	10.2	2.0	2.8	· · · · · · · · · · · · · · · · · · ·		1.4	2.4	
Fodder crops	2.6	2.2	2.0	4.9	1.3	1.7	2.2	
Permanent pasture	32.4	42.0	34.0	43.2	26.1	39.1	36.8	
Leys	19.9	24.1	29.8	43.4	40.2	17.3	27.4	
Rough grazing	1.8	3.7	3.7	9.5	2.9	3.6	3.8	
Other	6.2	2.4	1.4	2.0	3.2	1.7	2.5	
Total	175.1	143.6	126.7	152.8	126.2	89.4	132.4	

AVERAGE STOCKING PER FARM: OUTPUT GROUPS

Type G	roup	1	2	3	5	6	7/8	Whole Sample
Number of Farms		19	62	40	16	25	28	193
Type o	f stock			Hea	d of stoc	k		
Dairy	COWS	21.6	14.2	15.4	36.6	22.8	23.6	19.3
Beef c	· · · · · · · · · · · · · · · · · · ·	27.9	14.8	7.1	44.1	18.9	13.8	17.3
-	cattle	149.5	122.6	129.2	107.2	86.5	108.8	117.6
Sheep:		14.3	82.9	114.2	129.9	96.1	62.4	84.0
. •	other sheep							
	over 6 months	15.6	25.5	22.3	16.3	22.5	36.5	25.0
Pigs:	SOWS	15.4	4.1	6.9	3.7	8.1	0.1	5.6
	other pigs	94.1	24.9	55.5	18.1	41.7	0.3	35.7
Poultr		872.1	609.7	3.0	3.7	103.6	1.5	296.8
Horses	*	2,2	0.3	0.4	-	0.3	0.2	0.5

AVERAGE OUTPUT, COSTS, MARGIN AND CAPITAL PER FARM: OUTPUT GROUPS

Group	1	2	3	5	6	7/8	Whole Sample
Number of Farms	19	62	40	16	25	28	193 £
OUTPUT	£ 23109	£ 18861	£ 12958	£ 12350	£ 10563	£ 13737	15534
COSTS	9940	6263	3439	2558	2893	2671	4526
Concentrates	8240 143	199	3439 96	135	263	121	161
Purchased fodder	2673	1228	1242	1011	898	1197	1298
Fertilizer		1220	1242	1011	0.50	1107	1230
Other variable costs of fodd	38	27	17	24	24	30	25
Sprays Seed	296	170	164	106	121	184	171
Contract	140	65	95	173	69	107	93
Bought grass	163	334	70	0	11	72	150
Miscellaneous	145	127	109	7 4	54	111	108
Total	783	722	454	376	278	504	547
	700		101				
Other variable costs of beef:		040	400	0.0	400	4 779	1.62
Transport	171	213	120	96	128	. 173	163
Vet. and medicines	468	372	238	349	209	340	321
Miscellaneous	368	368	155	265	137	182 695	254 738
Total	1007	953	513	709	474		***************************************
Labour for beef	2229	2540	1620	1998	1558	1897	2033
Tractors, motor vehicle and							
equipment used for beef	1215	1185	835	874	566	621	920
Share of labour, tractor and							
machinery costs for forage							
production and field maint.	2823	2072	1833	1190	1377	1871	1889
Rental value of forage area	2362	1907	1947	1526	1286	1668	1804
General farm overheads	1867	1686	1445	1439	1180	1457	1525
Total costs	23342	18754	13425	11816	10773	12703	15441
NET MARGIN (over above costs)	-232	107	-467	535	-210	1035	94
CAPITAL							
Cattle in opening valuation	28660	27406	22789	19696	15148	25199	23755
Beef equipment	2492	1110	1512	752	7 80	1013	1226
Share of grass and					, 4		
forage equipment	3057	2061	2122	1120	1708	2009	2019
Total capital	34209	30576	26423	21568	17636	28221	27000
Total labour input	3213	3287	2255	2447	2012	2525	2696
Total tractor input	1201	1320	758	952	640	790	992
Total machinery input	1613	934	1034	549	701	895	942
Subsidies (excl. F.S.	•						
premiums) included						*	
in output	170	230	29	47	43	151	128
PHYSICAL INPUTS AND PRODUCTION	1	× .					
Labour hours to beef Hrs.		1587	1013	1249	973	1186	1270
Forage area used for beef Ha.	51	46	43	42	34	41	43
- of which grass area = Ha.	46	44	41	40	32	40	41
Livestock units of beef,							
(average during the							
year)	73	74	59	5 8	44	63	63
Liveweight production in	4						
the year Kg.	27467	22744	16003	15593	14484	20751	19646

PERFORMANCE IN RELATION TO OUTPUT	LAND, CI	IPITAL F	AND LIVE	STOCK L	MIIS: C	UIPUI (GROUPS
Group	1.	2	3	5	6	., -	Whole Sample
Number of farms	19	62	40	16	25	28	193
Average forage area for beef Ha.	50.5	46.1	43.0	42.1	33.5	40.9	43.0
PERFORMANCE IN RELATION TO OUTPUT	(PER £100	OF OUT	PUT)				
Costs	£	£	£	£	£	£	£
Concentrates	35.7	33.2	26.5	20.7	27.4	19.4	29.1
Purchased fodder	0.6	1.1	0.7	1.1	2.5	0.9	1.0
Fertilizer	11.6	6.5	9.6	8.2	8.5	8.7	8.4
Other variable costs of forage	3.4	3.8	3.5	3.0	2.6	3.7	3.5
Other variable costs for beef	4.4	5.1	4.0	5.7	4.5	5.1	4.8
Total variable costs	55.6	49.6	44.3	38.8	45.5	37.8	46.8
Gross Margin	44.4	50.4	55.7	61.0	54.5	62.3	53.2
Labour for beef	9.6	13.5	12.5	16.2	14.7	13.8	13.1
Tr. Mv. & Equipment used for beef	5.3	6.3	6.4	7.1	5.4	4.5	5.9
Share of labour and machinery for							
forage and field maintenance	12.2	11.0	14.1	9.6	13.0	13.6	12.2
Rental value of forage area	10.2	10.1	15.0	12.4	12.2	12.1	11.6
General farm overheads	8.1	8.9	11.1	11.6	11.2	10.6	9.8
Total fixed costs	45.4	49.8	59.3	56.9	56.5	54.7	52.6
Total costs	101.0	99.4	103.6	95.7	102.0	92.5	99.4
Net Margin (over the above costs)	-1.0	0.6	-3.6	4.3	-2.0	7.5	0.6
Capital	148.0	162.1	203.9	174.6	167.0	205.4	173.8
Forage area ha.		0.24	0.33	0.34	0.32	0.30	
Labour hours hrs	•	8.4	7.8	10.1	9.2	8.6	8.2
Livestock units of beef	0.32	0.39	0.46	0.47	0.42	0.46	
Liveweight production kg.	119	121	123	126	137	151	126
PERFORMANCE IN RELATION TO LAND US					0		£
	£	£	£	£	£ 314.9	£ 335.9	361.3
Output	457.9 462.5	409.3 406.9,	301.3	293.5	321.2	310.6	359.1
005 05	-4.6	2.3	-10.9	12.7	-6.3	25.3	2.2
Net Margin Gross Margin	203.4	206.1		179.0	171.6	209.2	192,2
Capital	677.8	663.5	614.5	512.6	525.8	690.1	628.0
Labour hours hrs.		34	24	30	29	29	30
Liveweight production kg.	544	494	372	371	432	507	457
Grassland area to beef ha.	0.92	0.96	0.96	0.96	0.96	0.97	
Nitrogen use on grass kg/ha.						0.51	0.96
	150	75	76	55	87	66	0,96 82
			76	55	8 7		82
PERFORMANCE IN RELATION TO CAPITAL			76	55 £		66 £	82 £
	£ (PER £100 £ 67.6	0 OF CA £ 61.7	76 PITAL) £ 49.0	£ 57.3	£ 59.9	66 £ 48.7	£ 57.5
PERFORMANCE IN RELATION TO CAPITAL	£ (PER £100 £ 67.6 68.2	0 OF CAL £ 61.7 61.3	76 PITAL) £ 49.0 50.8	£ 57.3 54.8	£ 59.9 61.1	£ 48.7 45.0	£ 57.5 57.2
PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin	£ (PER £100 £ 67.6 68.2 -0.7	0 OF CA £ 61.7 61.3 0.3	76 PITAL) £ 49.0 50.8 -1.8	£ 57.3 54.8 2.5	£ 59.9 61.1 -1.2	£ 48.7 45.0 3.7	£ 57.5 57.2 0.3
PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin	£ (PER £100 £ 67.6 68.2	0 OF CAL £ 61.7 61.3	76 PITAL) £ 49.0 50.8	£ 57.3 54.8 2.5	£ 59.9 61.1	£ 48.7 45.0	£ 57.5 57.2
PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition)	£ 67.6 68.2 -0.7 30.0	0 OF CA £ 61.7 61.3 0.3 31.1	76 PITAL) £ 49.0 50.8 -1.8 27.3	£ 57.3 54.8 2.5 34.9	£ 59.9 61.1 -1.2 32.6	£ 48.7 45.0 3.7 30.3	£ 57.5 57.2 0.3 30.6
PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle	67.6 68.2 -0.7 30.0	61.7 61.3 0.3 31.1	76 PITAL) £ 49.0 50.8 -1.8 27.3	£ 57.3 54.8 2.5 34.9	£ 59.9 61.1 -1.2 32.6 85.9	£ 48.7 45.0 3.7 30.3	£ 57.5 57.2 0.3 30.6
PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment	67.6 68.2 -0.7 30.0 83.8 7.3	61.7 61.3 0.3 31.1 89.6 3.6	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7	55 £ 57.3 54.8 2.5 34.9 91.3 3.5	£ 59.9 61.1 -1.2 32.6 85.9 4.4	£ 48.7 45.0 3.7 30.3 89.3 3.6	£ 57.5 57.2 0.3 30.6 88.0 4.5
PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass & Forage Equipment	E (PER £100 £ 67.6 68.2 -0.7 30.0 83.8 7.3 8.9	61.7 61.3 0.3 31.1 89.6 3.6 6.7	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7 8.0	55 £ 57.3 54.8 2.5 34.9 91.3 3.5 5.2	£ 59.9 61.1 -1.2 32.6 85.9 4.4 9.7	£ 48.7 45.0 3.7 30.3 89.3 3.6 7.1	£ 57.5 57.2 0.3 30.6 88.0 4.5 7.5
Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass & Forage Equipment Total	67.6 68.2 -0.7 30.0 83.8 7.3 8.9 100.0	61.7 61.3 0.3 31.1 89.6 3.6 6.7	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7 8.0 100.0	55 £ 57.3 54.8 2.5 34.9 91.3 3.5 5.2 100.0	£ 59.9 61.1 -1.2 32.6 85.9 4.4	£ 48.7 45.0 3.7 30.3 89.3 3.6	£ 57.5 57.2 0.3 30.6 88.0 4.5
PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass & Forage Equipment	67.6 68.2 -0.7 30.0 83.8 7.3 8.9 100.0	61.7 61.3 0.3 31.1 89.6 3.6 6.7	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7 8.0 100.0	55 £ 57.3 54.8 2.5 34.9 91.3 3.5 5.2 100.0	£ 59.9 61.1 -1.2 32.6 85.9 4.4 9.7 100.0	£ 48.7 45.0 3.7 30.3 89.3 3.6 7.1 100.0	£ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0
Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass & Forage Equipment Total	67.6 68.2 -0.7 30.0 83.8 7.3 8.9 100.0 EVESTOCK (12 £	0 OF CAL £ 61.7 61.3 0.3 31.1 89.6 3.6 6.7 100.0 PER LIVE £	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7 8.0 100.0 ESTOCK £ 219.6	55 £ 57.3 54.8 2.5 34.9 91.3 3.5 5.2 100.0 UNIT) £ 212.9	\$7 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	£ 48.7 45.0 3.7 30.3 89.3 3.6 7.1 100.0	£ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0
PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass & Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LI	E (PER £100 £ 67.6 68.2 -0.7 30.0 83.8 7.3 8.9 100.0 EVESTOCK (£ 315.0 318.1	0 OF CAL £ 61.7 61.3 0.3 31.1 89.6 3.6 6.7 100.0 PER LIV £ 255.4 254.0	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7 8.0 100.0 ESTOCK £ 219.6 227.5	55 £ 57.3 54.8 2.5 34.9 91.3 3.5 5.2 100.0 UNIT) £ 212.9 203.7	£ 59.9 61.1 -1.2 32.6 85.9 4.4 9.7 100.0 £ 239.4 244.2	£ 48.7 45.0 3.7 30.3 89.3 3.6 7.1 100.0 £ 219.3 202.8	£ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5
PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass & Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LI Output Costs Net Margin	67.6 68.2 -0.7 30.0 83.8 7.3 8.9 100.0 EVESTOCK (£ 315.0 318.1 -3.2	0 OF CAL £ 61.7 61.3 0.3 31.1 89.6 3.6 6.7 100.0 PER LIV £ 255.4 254.0 1.4	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7 8.0 100.0 ESTOCK £ 219.6 227.5 -7.9	55 £ 57.3 54.8 2.5 34.9 91.3 3.5 5.2 100.0 UNIT) £ 212.9 203.7 9.2	87 £ 59.9 61.1 -1.2 32.6 85.9 4.4 9.7 100.0 £ 239.4 244.2 -4.8	£ 48.7 45.0 3.7 30.3 89.3 3.6 7.1 100.0 £ 219.3 202.8 16.5	£ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5
Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass & Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LI Output Costs Net Margin Gross Margin	67.6 68.2 -0.7 30.0 83.8 7.3 8.9 100.0 EVESTOCK (£ 315.0 318.1 -3.2 139.9	0 OF CAL £ 61.7 61.3 0.3 31.1 89.6 3.6 6.7 100.0 PER LIV £ 255.4 254.0 1.4 128.6	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7 8.0 100.0 ESTOCK £ 219.6 227.5 -7.9 122.3	55 £ 57.3 54.8 2.5 34.9 91.3 3.5 5.2 100.0 UNIT) £ 212.9 203.7 9.2 129.8	87 £ 59.9 61.1 -1.2 32.6 85.9 4.4 9.7 100.0 £ 239.4 244.2 -4.8 130.5	£ 48.7 45.0 3.7 30.3 89.3 3.6 7.1 100.0 £ 219.3 202.8 16.5 136.6	£ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5 130.3
Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass & Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LI Output Costs Net Margin Gross Margin Capital	FER £100 £ 67.6 68.2 -0.7 30.0 83.8 7.3 8.9 100.0 EVESTOCK (£ 315.0 318.1 -3.2 139.9 466.3	0 OF CAL £ 61.7 61.3 0.3 31.1 89.6 3.6 6.7 100.0 PER LIV £ 255.4 254.0 1.4 128.6 414.1	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7 8.0 100.0 ESTOCK £ 219.6 227.5 -7.9 122.3 447.8	55 £ 57.3 54.8 2.5 34.9 91.3 3.5 5.2 100.0 UNIT) £ 212.9 203.7 9.2 129.8 371.9	£ 59.9 61.1 -1.2 32.6 85.9 4.4 9.7 100.0 £ 239.4 244.2 -4.8 130.5 399.7	£ 48.7 45.0 3.7 30.3 89.3 3.6 7.1 100.0 £ 219.3 202.8 16.5 136.6 450.5	£ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5 130.3 425.8
Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass & Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LI Output Costs Net Margin Gross Margin Capital Forage area to beef ha.	(PER £100 £ 67.6 68.2 -0.7 30.0 83.8 7.3 8.9 100.0 EVESTOCK (£ 315.0 318.1 -3.2 139.9 466.3 0.69	0 OF CAL £ 61.7 61.3 0.3 31.1 89.6 3.6 6.7 100.0 PER LIV £ 255.4 254.0 1.4 128.6 414.1 0.62	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7 8.0 100.0 ESTOCK £ 219.6 227.5 -7.9 122.3 447.8 0.73	55 £ 57.3 54.8 2.5 34.9 91.3 3.5 5.2 100.0 UNIT) £ 212.9 203.7 9.2 129.8 371.9 0.73	87 £ 59.9 61.1 -1.2 32.6 85.9 4.4 9.7 100.0 £ 239.4 244.2 -4.8 130.5 399.7 0.76	£ 48.7 45.0 3.7 30.3 89.3 3.6 7.1 100.0 £ 219.3 202.8 16.5 136.6 450.5 0.68	£ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5 130.3 425.8 6 0.68
Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass & Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LI Output Costs Net Margin Gross Margin Capital Forage area to beef ha. Grassland area to beef ha.	(PER £100 £ 67.6 68.2 -0.7 30.0 83.8 7.3 8.9 100.0 EVESTOCK (£ 315.0 318.1 -3.2 139.9 466.3 0.69 0.63	0 OF CAL £ 61.7 61.3 0.3 31.1 89.6 6.7 100.0 PER LIV £ 255.4 254.0 1.4 128.6 414.1 0.62 0.60	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7 8.0 100.0 ESTOCK £ 219.6 227.5 -7.9 122.3 447.8 0.73 0.70	55 £ 57.3 54.8 2.5 34.9 91.3 3.5 5.2 100.0 UNIT) £ 212.9 203.7 9.2 129.8 371.9 0.73 0.69	\$7 \$ \$ \$ \$ \$ \$ \$ 9 \$ 9 \$ 61.1 \$ -1.2 \$ 32.6 \$ \$ \$ 5.9 \$ 4.4 \$ 9.7 \$ 100.0 \$ \$ \$ \$ 239.4 \$ 244.2 \$ -4.8 \$ 130.5 \$ 399.7 \$ 0.76 \$ 0.73	£ 48.7 45.0 3.7 30.3 89.3 3.6 7.1 100.0 £ 219.3 202.8 16.5 136.6 450.5 0.66	£ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5 130.3 425.8 6 0.68 0.65
Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass & Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LI Output Costs Net Margin Gross Margin Capital Forage area to beef ha.	(PER £100 £ 67.6 68.2 -0.7 30.0 83.8 7.3 8.9 100.0 EVESTOCK (£ 315.0 318.1 -3.2 139.9 466.3 0.69	0 OF CAL £ 61.7 61.3 0.3 31.1 89.6 3.6 6.7 100.0 PER LIV £ 255.4 254.0 1.4 128.6 414.1 0.62	76 PITAL) £ 49.0 50.8 -1.8 27.3 86.2 5.7 8.0 100.0 ESTOCK £ 219.6 227.5 -7.9 122.3 447.8 0.73	55 £ 57.3 54.8 2.5 34.9 91.3 3.5 5.2 100.0 UNIT) £ 212.9 203.7 9.2 129.8 371.9 0.73	87 £ 59.9 61.1 -1.2 32.6 85.9 4.4 9.7 100.0 £ 239.4 244.2 -4.8 130.5 399.7 0.76	£ 48.7 45.0 3.7 30.3 89.3 3.6 7.1 100.0 £ 219.3 202.8 16.5 136.6 450.5 0.68	£ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5 130.3 425.8 6 0.68

ANALYSIS OF CONCENTRATE FEEDING COSTS:

OUTPUT GROUPS

Group	Number of farms	fee lives it	d cost	nit and			entage concentra							compositi ntrate fee		
		£/LU	Summer	Winter	Cereals	Milk & Milk Subs.	Compound	Straigh	t Minerals & Additives		Cereals	Milk & Milk Subs.	Compound	l Straight	Minerals & Additives	
		£	%	%	%	%	%	%	%	. %	%	%	%	%	%	%
1	19	112	23	77	42	5	36	14	4	-	56	2	28	9	2	4
2	62	85	18	82	50	5	28	-	11	6	50	3	32	- -	4	12
3	40	5 8	11	89	40	12	40	aija	8	-	72	2	19	-	3	4
5	16	44	24	76	22	11	64	••	3	· •	39	8	34	4	12	4
6	25	66	18	82	38	5	48	<u></u> .	6	3	55	5	29		8	3
7	28	43	17	83	31	10	55	-	3	-	51	2	38	-	3	5
Whole Sampl		71	18	82	43	6	37	4	7	3	55	3	29	2	4	7

COMPOSITION OF BEEF CATTLE INTAKE AND DISPOSAL: OUTPUT GROUPS

Group	1	2	3	5	6	7/8	Whole Sample
Number of farms	19	62	40	16	25	2 8	193
					f		·.
			Number	of head	l per fa	arm	
Intake during year	100	9 7	5 9	55	50	51	73
Composition of cattle intake	%	%	%	%	%	%	%
Single suckle calves born	16	12	7	62	28	19	17
Dairy calves retained for beef	15	10	8	25	8	28	13
Purchased calves 0 - 3 months	49	22	23	8	29	23	26
" " 3 – 12 "	12	16	22		10	12	14
" stores 12 - 18 "	8	34	28	1	25	16	25
" 18 - 24 "		5	8	4	_	2	4
u over 24 "	-	1	4	-	, -	-	1
	100	100	100	100	100	100	100
					•		
			Numbon	of hea	d nor v	oor	
	94	90	60	79	57	57	7 4
Output during year	%	90 %	%	79 %	%	%	%
Composition of cattle output		<i>%</i>	<i>1</i> 0	<i>1</i> 0 1	<i>7</i> 0 5	. 1	15
Fat up to 18 months	90	85	15	2 _.	3	14	39
10 21	4	4	75	-	-	6	15
over 24	2	1	75	87	6	1	9
b to les up to 12	4	2	1	10	76	8	11
12 10	-1	2	4	-	10	57	
" 18 - 24 " over 24 "			4	_	-	13	
Over 2			•				
	100	100	100	100	100	100	100

PERFORMANCE IN RELATION TO OUTPUT, LAND, CAPITAL AND BEEF LIVESTOCK UNITS: PREMIUM FARMS (BEST 25% IN EACH OUTPUT GROUP

PREMIUM FAR	MS (BEST 2	5% IN EA	CH OUTPU	r group			
Group	1	2	3	5	6		Whole Sample
Number of farms	5	15	10	4	6	7	48
Average forage area for beef Ha	. 44.1	43.6	27.3	42.1	30.5	66.0	45.0
PERFORMANCE IN RELATION TO OUTPU	T (PER £10	O OF OUT	PUT)				
Costs	£	£	£	£	£	£	£
Concentrates	22.6	29.9	20.9	23.6	23.7	14.4	22.9
Purchased Fodder	0.0	1.2	1.6	0.6	4.8	0.5	1.2
Fertilizer	8.6	3.8	4.0	4.9	9.8	7.1 4.1	$\substack{6.4 \\ 2.5}$
Other variable costs of forage		2.0	1.5	3.7	1.9 3.7	4.1	3.5
Other variable costs for beef	2.5	3.6	3.2	2.3 35.0	43.9	30.3	36.3
Total variable costs	36.2	40.5	31.2				
Gross Margin	63.8	59.5	68.8	64.9	56.1	69.7	63.6
Labour for beef	6.3	9.9	11.1	15.1	7.3	7.7	9.0 3.8
Tr. Mv. & Equipment used for bee	f 2.2	4.4	3.5	4.3	2.8	3.8	3.0
Share of labour & machinery for	S 0	7 2	9 .7	4.3	7.5	11.8	8.5
forage and field maintenance	8.2	7.2 8.1	8.1	8.7	8.9	8.4	8.3
Rental value of forage area	6.1 5.7	6.2	8.7	8.1	6.7	7.9	7.2
General farm overheads Total fixed costs	28.5	35.7	41.1	40.5	33.2	39.6	36.7
Total costs	64.7	76.2	72.2	75.5	77.1	69.9	73.0
Net Margin (over the above costs		23.8	27.8	24.5	22.9	30.1	27.0
Capital	128.5	131.5	154.9	120.6	140.7	175.2	146.3
	0.15	0.17	0.23	0.21	0.19	0.23	0.20
Forage area ha. Labour hours hrs.	3.9	6.2	6.9	9.5	4.6	4.8	5.6
Livestock units of beef	0.30	0.33	0.37	0.35	0.34	0.39	
Liveweight production kg.	97	113	126	108	149	126	119
PERFORMANCE IN RELATION TO LAND							
PERFORMANCE IN RELATION TO DAND	£	£	£	£	£	£	£
Output	672.7	585.0	428.4	476.5	517.1	439.3	494.7
Costs	435.0	445.7	309.4	359.8	398.8	307.0	361.3
Net Margin	237.7	139.2	119.0	116.7	118.4	132.3	133.4
Gross Margin	429.3	348.2	294.9	306.9	290.1	306.2	314.8
Capital	864.7	769.2	663.4	574.4	727.5	769.7	724.0
Labour hours hrs.	26	36	30	45	24	21	28
Liveweight production kg.	655	659	53 8	514	772	552	591
Grassland area to beef ha.	0.99	0.91	0.96	1.00	0.88		
Nitrogen use on grass kg/ha.	157	71	31	69	174	· 73	86
PERFORMANCE IN RELATION TO CAPIT		100 OF CA	APITAL)	_	_		•
	3.	£	£	£	£	£	£
Output	77. 8	76.0	64.6	83.0	71.1	57.1	68.3
Costs	50.3	57.9	46.6	62.6	54.8 16.3	39.9 17.2	
Net Margin	27.5	18.1	17.9	20.3	39.9	39.8	43.5
Gross Margin	49.7	45.3	44.4	53.4	39.9	30.0	43.0
Capital (composition)	04.0:	00.4	89.7	94.6	93.1	88.5	91.7
Cattle	94.0 1.9	92.4 2.4	3.4	3.7	1.9	3.1	2.5
Beef Equipment Grass & Forage Equipment	4.1	5.2	6.9	1.6	5.0	8.4	
Total	100.0	100.0	100.0	100.0	100.0	100.0	
PERFORMANCE IN RELATION TO BEEF	LIVESTOCK	(PER LIV	VESTOCK U	NIT)	£	e	e
	£	£	£	${f \pounds}$	291.6	£ 25 8.8	£ 280.9
Output	330.0 213.4	298.9 227.7	267.4 193.1	214.0	224.8	180.9	
Costs	213.4 116.6	71.1	74.3	69.4	66.8	78.0	75.8
Net Margin	210.6		184.1	182.5	163.5	180.4	
Gross Margin Capital	424.2	393.0	414.1	341.6	410.2	453.5	
	0.49	0.51	0.62	0.59	0.56	0.5	
Forage area to beef ha. Grassland area to beef ha.	0.49	0.47		0.59	0.50	0.5	
Labour hours hrs.	13	18	19	27	13	12	16
Liveweight production kg.	321	337	336	306	435	325	336
==+enenon- francos - mg+	- 	•					-

ANALYSIS OF CONCENTRATE FEEDING COSTS:
PREMIUM FARMS (BEST 25%) IN EACH OUTPUT GROUP

			·													
Group	Number of Farms	fee lives	ed cost	nit and	Percentage composition of summer concentrate feed costs								ntage comp concentra			
		£/LU	Summer	Winter	Cereals	Milk & Milk Subs.	Compound	Straight	Minerals & Additives	Other	Cereals	Milk & Milk Subs.	Compound	Straight	Minerals & Additives	Other
		١.,	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		£ 75	16	- 84	55	15	17	1	12	-	73	3	11	3	4	6
1	5	/3	10	0-1	33	10	•	•							-	
2	15	89	27	73	66	2	13	1	13	5	70	3	12		2 8	6
3	10	56	16	84	17	18	61	, -	5	-	64	.3	30	-	1	2
5	4	67	18	82	30	12	56	1		-	36	12	34	3	16	-
6	6	69	18	82	34	7	57		1	1	80	3	11	•••	6	· -
7	7	37	16	84	33	11	55	1	-	1	56	2	37	1	3	1
Whole Sampl	•	64	21	79	54	7	26	1	9	3	66	4	19	1	6	4

COMPOSITION OF BEEF CATTLE INTAKE AND DISPOSAL:

PREMIUM FARMS (BEST 25%) IN EACH OUTPUT GROUP

Group	1	.2	3	5	6	7/8	Whole Sample
Number of farms	5	15	10	4	6	7	48
Average forage area for beef Ha.	44.1	43.6	27.3	42.1	30.5	66.0	45.0
Tudalia duning man	96	103	Number o	of head 73	per farm	80	81
Intake during year Composition of cattle intake	%	103 %	%	%	%	%	%
Single suckle calves, home bred	29	18	2	57	36	21	26
Dairy calves retained for beef	19	8	25	33	18	42	19
Purchased calves 0 - 3 months	34	35	39	10	18	22	26
" " 3 - 12 "	16	20	-		25	-	12
Purchased stores 12 - 18 "	3	13	1	_	2	13	9
" 18 - 24 "	-	5	15		-	2	6
" over 24 "	-	1	17		-	-	2
	100	100	100	100	100	100	100

			Number	of head	per farm	1	
Output during year	103	100	48	75	67	6 8	82
Composition of cattle output	%	%	%	%	%	%	%
Fat up to 18 months	87	12	6	1	14	2	19
Fat 18 - 24 "	5	76	14	10	-	3	32
Fat over 24 "	-	1	69	-	_	10	12
Stores up to 12 months	5	1	1	73	6	. 1	11
" 12 – 18 "	2	6	-	17	81	7	12
" 18 - 24 "	:	4	9	<u>-</u>	-	58	10
over 24 "		-	1			19	4
	*						
	100	100	100	100	100	100	100

VARIABILITY OF MARGINS PER £100 OUTPUT IN EACH OUTPUT GROUP

•		Grou	ip		Premium	farms (best 25% o	f margins)
Output	Number	R	lange of Margins		Number	Range of	margins
Group	of Farms	Minimum	Maximum	Standard Error	of Farms	Minimum	Maximum
1	19	-117.7	52.2	8.86	5	24.8	52.2
2	62	-249.8	65.9	6.40	15	13.4	65.9
3	40	-120.1	35.8	5.44	10	9.7	35.8
5	16	-61.2	42.7	7.18	4	17.0	42.7
6	25	-134.7	44.2	7.92	6	8.9	44.2
7 & 8	28	-143.0	51.7	7.97	7	15.7	51.7
Whole Sample	193	-249.8	65.9	3.04	48	13.7	65.9

PERFORMANCE IN RELATION TO OUTPUT, LAND, CAPITAL AND LIVESTOCK UNITS: "PREDOMINANT" OUTPUT FARMS IN EACH GROUP

(Forms having at least 80% of their beef cattle output in one type-class) 5 9 4 6 1 2 3 Group 23 17 40 20 24 8 11 Number of farms Average forage area for beef ha. 47.6 54.7 36.9 58.2 35.1 33.9 40.7 PERFORMANCE IN RELATION TO OUTPUT (PER £100 OF OUTPUT) £ £ £ £ £ £ £ Costs 26.9 28.4 37.5 32.4 38.0 14.1 25.3 Concentrates Purchased fodder 0.7 0.9 0.5 1.1 0.0 3.9 2.1 7.9 8.8 8.9 5.8 6.8 10.1 Fertilizer 11.8 2.1 3,3 2.5 2.7 Other variable costs of forage 3.3 4.3 3.7 4.2 5.4 Other variable costs for beef 4.6 3.9 4.6 6.3 5.4 31.7 45.9 45.1 Total variable costs 57.9 49.8 43.5 54.3 45.7 68.3 54.1 54.7 Gross Margin 42.1 50.2 56.5 12.3 18.2 9.4 13.9 12.0 18.9 11.0 Labour for beef 6.0 5.6 Tr. Mv. & Equipment used for beef 5.5 6.8 8.4 5.0 9.2 Share of labour & machinery for 12,5 10.7 11.8 forage and field maintenance 11.7 11.5 15.3 11.5 12.4 10.1 15.3 11.4 16.5 Rental value of forage area 9.8 10.9 9.6 12.2 7.7 11.2 9.1 13.2 General farm overheads 9.4 58.6 52.4 62.3 49.3 68.6 50.8 Total fixed costs 44.2 103.6 100.3 96.7 103.7 102.2 105.8 Total costs 102.0 **-3.7** -3.6 -0.3 3.3 Net Margin (over the above costs) -2.0-2.2 -5.8 164.4 179.5 208.7 175.0 203.1 149.0 Capital 143.9 0.21 0.29 0.34 0.34 0.25 0.39 0.26 Forage area ha. 7.7 11.8 6.9 11.4 8.7 7.5 Labour hours 5.9 hrs. 0.38 0.46 0.45 0.40 0.51 Livestock units of beef 0.30 0.39 122 Liveweight production 126 118 112 124 131 133 kg. PERFORMANCE IN RELATION TO LAND USE (PER HECTARE OF FORAGE) £ £ £ £ £ £ £ 298.0 346.2 298,5 477.2 381.3 400.1 253.4 Output 334.7 309.4 Costs 487.0 389.7 315.1 414.4 254.1 Net Margin -9.8 -8.5 -17.1-14.4-0.711.5 -10.9173.2 187.3 163.4 201.1 182.9 Gross Margin 191.4 168.3 516.0 535.7 Capital 686.6 626.8 621.9 700.1 514.5 28 33 22 31 30 24 34 Labour hours hrs. 453 398 488 315 601 450 332 Liveweight production kg. 0.94 0.97 0.93 0.94 0.94 0.99 Grassland area to beef ha. 0.97 kg/ha. 157 74 82 70 43 95 49 Nitrogen use on grass PERFORMANCE IN RELATION TO CAPITAL (PER £100 OF CAPITAL) £ £ £ £ £ £ £ 69.5 60.8 47.9 57.1 49.2 67.1 55.7 Output 49.4 64.9 57.7 59.2 Costs 70.9 62.2 50.7 -2.0 -1.4-2.1 -0.12.2 -1.4-2.8Net Margin 26.1 33.7 36.3 30.5 Gross Margin 29.3 30.5 27.1 Capital (composition) 90.1 90.7 83.2 88.8 82.4 83.4 Cattle 89.1 6.4 3.3 Beef Equipment 2.7 3.6 8.3 3.9 8.4 5.7 10.4 7.9 9.3 7.0 8.2 7.2 Grass & Forage Equipment 100.0 100.0 100.0 100.0 100.0 100.0 Total 100.0 PERFORMANCE IN RELATION TO BEEF LIVESTOCK (PER LIVESTOCK UNIT) £ £ £ £ £ £ £ 222.9 250.3 260.6 215.4 331.0 257.4 195.7 Output 223.3 263.1 196.2 251.9 337.7 235.8 259.3 Costs -7.9 Net Margin -6.8 -5.7-12.8-9.0 -0.58.7 117.9 114.4 133.7 141.0 Gross Margin 139.5 129.2 126.0 388.4 423.2 438.1 386.7 476.2 465.4 397.3 Capital 0.72 0.63 0.77 0.75 Forage area to beef 0.69 0.68 0.75 ha. 0.58 0.73 0.71 0.71 Grassland area to beef 0.65 0.66 0.72 ha. 25 20 22 17 19 23 18 Labour hours hrs. 341 287 Liveweight production 417 304 249 306 243 kg.

ANALYSIS OF CONCENTRATE FEEDING COSTS:

"PREDOMINANT" OUTPUT FARMS IN EACH GROUP

(Farms having at least 80% of their beef cattle output in one type-class)

Group	Number of Farms	fee lives	ed cost	nit and			entage con concentra						entage cor concentra			
		£/LU	Summer	Winter	Cereals	Milk & Milk Subs.	Compound	Straight	Minerals & Additives	Other	Cereals	Milk & Milk Subs.	Compound	_	Minerals & Additives	•
		£	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	17	124	23	77	43	5	33	15	3	-	5 8	3	26	10	1	3
2	40	83	15	85	53	4	28	1	9	5	50	2	32	- '	3	13
3	20	56	9	91	41	13	40	1	4	-	80	2	10	-	3	4
4	24	95	23	77	49	3	27	-	14	7	56	1	31	- -	6	7
5	8	28	13	87	-	18	7 9	-	3	-	38	3	25	7	19	8
6	11	70	16	84	25	6	62	-	3	4	51	7	32	-	6	4
9	23	61	25	75	23	10	61	_	5	1	40	7	44	1	6	2

COMPOSITION OF BEEF CATTLE INTAKE AND DISPOSAL:

"PREDOMINANT" OUTPUT FARMS IN EACH GROUP

(Farms having at least 80% of their beef cattle output in one type-class)

Group	1	2	3	4	5	6	9
Number of farms	17	40	20	24	8	11	23
Average forage area for beef Ha.	47.6	54.7	40.7	36.9	58.2	35.1	33.9
			Number of	head p	er farm		
Intake during year	99	106	44	83	08	57	49
Composition of cattle intake	%	%	%	%	%	%	%
Single suckle calves, home bred	13	12	14	4	77	15	29
Dairy calves retained for beef	16	8	9	10	14	8	19
Purchased calves 0 - 3 months	49	27	17	14	2	35	34
" 3 - 12 "	12	16	24	21	, 	12	6
Purchased stores 12 - 18 "	9	32	29	40	•	29	13
" 18 - 24 "	-	5	8	8	6		- ,
" over 24 "	-	-	-	4		-	-
	100	100	100	100	100	100	100

•			Number o	of head	per farm	1	
Output during year	92	96	53	83	102	65	5 7
Composition of cattle output	%	%	%	%	%	%	%
Fat up to 18 months	92	1		14	_	-	1
Fat 18 - 24 "	5	98	5	46	-	1	3
Fat over 24	-	-	94	38			
Stores up to 12 months	1		-	-	99	2	24
" 12 - 18 "	2	_	`	1	1	97	36
" 18 - 24 "		-	-	1.	· _	, 	29
" over 24 "		- ,	1	-	· _	-	6
	100	100	100	100	100	100	100

PERFORMANCE IN RELATION TO OUTPUT, LAND, CAPITAL AND BEEF LIVESTOCK UNITS: "SPECIALIST" OUTPUT FARMS IN EACH GROUP

(Farms having ALL their beef cattle output in one type-class)

(Farms having ALL t	heir beef	cattle output	t in one typ	e-class)	
Group		~ ~ 1	2	3	4
Number of farms		10	28	14	25
Average forage area for beef	Ha.	22.6	52.1	40.0	41.4
PERFORMANCE IN RELATION TO OUTPU	T (PER £1	00 OF OUTPUT)			
Costs		£	£	£	£
Concentrates		44.5	33.4	22.3	37.9
Purchased fodder		0.9	1.2	0.8	0.2
Fertilizer		7.9	7.2	10.2	7.7
Other variable costs of forage)	1.8	4.8	3.5	2.8
Other variable costs for beef	4	3.8	6.1	3.1	3.8
Total variable costs		58.9	52.7	39.9	52.4
Gross Margin		41.1	47.3	60.1	47.6
Labour for beef		8.2	14.8	11.8	11.5
Tr. Mv. & Equipment used for bee	ef	8.0	7.1	10.1	4.7
Share of labour & machinery for					44.0
forage and field maintenance		13.0	12.4	14.4	11.6
Rental value of forage area		5.2	11.0	16.4	11,4
General farm overheads		5.2	9.8	12.1	8.4
Total fixed costs		39.6	55,2	64.8	47.5
Total costs		98.6	107.9	104.7	99.9
Net Margin (over the above costs	······································	1.4	-7.9	-4.7	0.1
Capital		140.9	177.0	216.5	159.1
Forage area	ha.	0.13	0.27	0.36	0.24
Labour hours	hrs.	5.2	9.3	7.4	7.2
Livestock units of beef	-	0.25	0.41	.0.46	0.37
Liveweight production	kg.	122	121	125	129
PERFORMANCE IN RELATION TO LAND	USE (PER			£	£
		£	£ 369.6	275.7	417.5
Output		788,4		288.7	417.2
Costs		777.1 11.4	398.9 -29.3	-13.0	0.3
Net Margin		323.7	174.6	165.6	198.6
Gross Margin		1110.5	654.0	596.8	664.3
Capital Labour hours	hrs.	41	34	20	30
Liveweight production	kg.	959	448	345	540
Grassland area to beef	ha.	0.88	0.98	0.96	0.93
Nitrogen use on grass	kg/ha.	118	71	79	85
PERFORMANCE IN RELATION TO CAPIT	_		4	• •	
PERFORMANCE IN RELATION TO CAPIT	IAL (FER a	£	£	£	£
Output		71.0	56.5	46.2	62.8
Costs		70.0	61.0	48.4	62.8
Net Margin		1.0	-4.5	-2.2	0.0
Gross Margin		29.2	26.7	27.7	29.9
Capital (composition)					
Cattle	•	70.9	89.1	82.4	87.8
Beef Equipment		13.2	4.2	10.3	3.7
Grass and forage equipment		15.9	6.7	7.2	8.5
Total		100.0	100.0	100.0	100.0
PERFORMANCE IN RELATION TO BEEF	LIVESTOCK				
	•	£	£	£	£
Output		400.0	242.1	215.6	271.0
Costs		394.2	261.3	225.8	270.9
Net Margin	\$	5.8	-19.2	-10.2	0.2
Gross Margin		164.2	114.4	129.5	128.9
Capital	•	563.4	428,4	466.8	431.3
Forage area to beef	ha.	0.51	0.66	0.78	0.65
Grassland area to beef	ha.	0.45	0.64	0.75	0.60
Labour hours	hrs.	21	22	16	19
Liveweight production	kg.	486	294	270	351

ANALYSIS OF CONCENTRATE FEEDING COSTS:

"SPECIALIST" OUTPUT FARMS IN EACH GROUP

(Farms having ALL their beef cattle output in one type-class)

Group	Number of farms	fe live	od cost	nit and onal				omposition rate feed			Percentage composition of winter concentrate feed costs r Cereals Milk & Compound Straight Minerals					
		£/LU	Summe r	Winter	Cereals	Milk & Milk Subs.	Compound	Straight	Minerals & Additives	Other	Cereals	Milk & Milk Subs.	Compound	Straight	Minerals & Addivites	Other
-		%.	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	10	178	27	73	61	3	34	-	1	_	7 9	3	16	1	<u>-</u>	
2	28	81	16	84	46	5	36	-	10	3	51	2	27	-	3	17
3	14	48	13	87	36	14	47	1	3	-	72	2	15	· <u>-</u>	4	1 7
4	25	103	22	7 8	55	2	25	1	12	4	56	1	34	-	5	4
										· .	<u> </u>		Opportunity of the complete of the drag agricultural page of the complete of			

COMPOSITION OF BEEF CATTLE INTAKE:

"SPECIALIST" OUTPUT FARMS IN EACH GROUP

(farms having ALL their beef cattle output in one type-class)

Group		1	2	3	4
Number of farms		10	28	14	25
Average forage area for beef	На.	22.6	52.1	40.0	41.4
		Nu	mber of he	ad per farm	
Intake during year		80	99	37	88
Composition of cattle intake		%	%	%	%
Single suckle calves, home bred		5	10	22	4
Dairy calves retained for beef		26	10	15	9
Purchased calves 0 - 3 months		58	28	8	22
" 3 - 12 "		3	21	23	24
Purchased stores 12 - 18		8	25	20	34
" 18 - 24 "		••	6	12	6
u u over 24 u			-		
		100	100	100	100

DISTRIBUTION OF INTAKE AND OUTPUT FARMS

Farms having at least 50% of their cattle intake and output in one type-class

	Intake Group (1)	1	2	3	4	5	6	7	8	9	10	11	Total
Output Group (2)													20002
	1			o i		Numbe	er of	farms					
1		3	4	_	9		1	1		-	1	-	19
2		6	12	***	13	_	8	15		-	8	-	62
3		5	7	-	11	_	4	8	2	1	-	2	40
4	1	-		_		_	_	-	-		1	-	1
5		6	7		1	_	_	_	-		-	2	16
6		8	4	-	7		2	2	_	-	-	2	25
7	İ	3	5	_	6	-	3	3	_		1	-	21
8		1	2	-	3	-	1	_	_	-	-	-	7
9		_		_	1			-	-	_			1
11		-	-	_	1	-	-	-	_	-	-	-	1
Total		32	41	_	52	-	19	29	2	1	11	6	193

DISTRIBUTION OF "PREDOMINANT" INTAKE AND OUTPUT FARMS

Farms having at least 80% of their cattle intake and output in one type-class

	Intake Group (1)	1	2	3	4	5	6	7	8	9	10	1.1	
Output													Total
Group (2)						T 1	- 0 4	· · · · · · · ·	<u>,</u>				
						Number	01 1	arms			_		4.77
· 1		2	3		6	2	-	1	-		3	-	17
2	1	1	5	-	7	5	4	3	-	-	15	-	40
3		4	2	_	3	1	1	5	1	-	1	2	20
4		_	3		3	2	1	5	_	_	10	- '	24
5		4	3	_	-		_		_	-	_	1	8
6		2	1	_	3	2	1	1	_	_	1	-	11
7		_	2	_	_	1		1	_	-	2		6
8			1	_	_		_	_	-	_	1	_	2
9		5	4	1	4	4	_	1	_	_	2	2	23
10		5	9	1	9	2	2	4	_		8	1	41
11		_	_	-	-	_	-	_		-	1	-	. 1
Total		23	33	2	35	19	9	21	1		44	6	193

DISTRIBUTION OF "SPECIALIST" INTAKE AND OUTPUT FARMS

Farms having ALL their beef cattle intake and output in one type-class

	Intake Group (1)	1	2	3	4	5	6	7	8	9	10	11	Total
Output Group (2)													TOTAL
]	Number	r of :	farms					
1	1	1	2	-	1	3	-	1	_		2	_	10
2	. (_	4	-	2	6	3	1	_	-	12	-	28
3		•	2		_	4	_	2	1		3	2	14
4		1	4	_	3	3	_	3	_	_	11		25
10	i	8	- 15	4	8	20	1	7	-	-	48	4	115
11		_	_	-	-	-	-	-	-	-	. 1	-	1
Total		10	27	4	14	36	4	14	1		77	6	193

- (1) See classification on the basis of beef cattle intake, page 9
- (2) See classification on the basis of beef cattle output, page 29

SECTION III

Survey results for beef enterprises grouped on the basis of the standard man-day type of farming class of the farm.

CLASSIFICATION BASED ON STANDARD MAN-DAY TYPE OF FARMING CLASSIFICATION

Type of Farming Class

Distribution of total standard man-days

1.	Specialist	dairy
----	------------	-------

2. Mainly dairy

- 3. Livestock rearing and fattening: mostly cattle
- 4. Livestock rearing and fattening: mostly sheep
- 5. Livestock rearing and fattening: cattle and sheep
- 6. Predominantly poultry
- 7. Pigs and poultry
- 8. Cropping: mostly cereals
- 9. General cropping
- 10. Predominantly vegetables
- 11. Predominantly fruit
- 12. General horticulture
- 13. Mixed

75% or more in dairying

More than 50% and less than 75% in dairying.

More than 50% in livestock rearing and fattening of which

75% or more in cattle
75% or more in sheep

Other holdings with more than 50% in livestock rearing.

75% or more in pigs and poultry, of which 75% or more in poultry

75% or more in pigs and poultry, of which less than 75% in poultry More than 50% and less than 75% in pigs and poultry

More than 50% in cropping of which

 $\begin{cases} 50\% \text{ or more in cereals} \\ \text{Less than 50\% in cereals} \end{cases}$

75% or more in horticulture of which

75% or more in horticultural vegetables
75% or more in fruit

75% or more in horticulture, of which neither horticultural vegetables nor fruit are 75% or more

More than 50% and less than 75% in horticulture

No more than 50% in any main enterprise

- (1) For more details of the method of classification and farm-type see Farm Classification in England and Wales 1976-77. H.M.S.O.
- (2) See page 50

NATIONAL BEEF PRODUCTION SURVEY 1978-79

Standard man-day requirements used to classify farms in the Survey

					Mar	andard n-Days hectare
Cereals						2.5
Sugarbeet						11
Potatoes						2 8
Horticulture						50
Herbage seed						2.5
Other cash crops						2.5
Fodder crops						5
Catch crops						1
Grass sown in or before 1973						1
Grass sown after 1973						2
					pe	r head
Dairy cows			÷			7
Beef cows						2.5
Other cattle						1.5
Sheep - ewes					×	0.5
- other over 6 months						0.25
Pigs - sows	•					3.5
- other						0.5
Poultry		4		.•		0.07

DISTRIBUTION OF STANDARD MAN-DAY TYPE OF FARMING GROUPS BY UNIVERSITY CENTRE

UNIVERSITY GROUP (OR COLLEGE CENTRE (2)	(1)	2	3	4	5	6	7	8	9	10- 12	13	Total
1				Nu	mber	of fa	rms				_	
Aberystwyth	2	3	9	-	1	_	-	-	1	-	-	16
Askham Bryan College	1	1	8		1	_	2	3	7	1	-	24
Cambridge	-	1 ,	5	-	2	-	1	3	-		3	15
Exeter	4	3	16	-	11	-	_	-	-	1	4	39
Manchester	7	3	2	-	1	_		_	2		-	15
Newcastle	3	3	12	-	3		1		_	_	-	22
Nottingham	1	1	4	-	3	-	_	1	3		3	16
Reading	3	2	14	_	6	_	1	7	1	_	1	35
Wye College	1	-	6	1	.	1	1	1	_		-	11
Total	22	17	76	1	28	1	6	15	14	2	11	193

DISTRIBUTION OF STANDARD MAN-DAY TYPE OF FARMING GROUPS BY S.M.D. SIZE CATEGORIES

SIZE CATEGORY S.M.D.	TYPE	(1) 1	2	, 3	4	5	6	7	8	9	10- 12	13	Total
	7		.,		Nur	mber o	f far	ms					
Under 250		_	1	20	1	3	-	-	3	1	-	-	29
250 to 499		2	1	24	- ,	10	-	- -	3	4	_	5	49
500 to 999		10	4	20	٠	10	-	3	2	4	-	3	56
1000 to 1499		4	4	7	-	2	-		2	1	1	_	21
1500 to 1999		4	3	2	-	1	1	2	3	3		1	20
2000 to 3499		2	4	3		1	-	1	1	1	-	_	13
3500 and over		_		-	_	1	-	· -	1	· -	1	2	5
Total		22	17	76	1	28	1	6	15	14	2	11	193

⁽¹⁾ See page 49

⁽²⁾ For the counties covered by each University/College see Appendix II.

AVERAGE CROPPING (HA) PER FARM: S.M.D. TYPE OF FARMING GROUPS

Type/Group	1	2	3	5	7	8	9	13	Whole Sample
Number of Farms	22	17	76	28	6	15	14	11	193
Cropping				Hectar	es				
Cereals	11.8	29.5	41.0	46.1	58.7	179.3	67.3	50.7	52.4
Sugar beet		0.7	0.2	-	1.2	7.5	4.8	8.6	1.8
Potatoes	0.1	1.4	0.5	0.9	0.4	3.2	12.2	2.5	1.7
Horticulture	_	_	0.1	_	0.7	1.9	0.6	6.3	1.3
Herbage seed	0.5	-	-	_	-	-	-	-	0.1
Other cash crops	-	0.4	0.3	1.1	1.2	18.8	3.9	3.0	2.4
Fodder crops	2.1	2.5	1.9	3.8	2.2	3.2	0.7	0.8	2.2
Permanent pasture	45.2	50.5	37.3	46.9	9.6	27.5	25.6	17.0	36.8
Leys	40.0	43.7	22.2	35.6	12.0	27.7	15.3	24.5	27.4
Rough grazing	0.8	5.5	4.8	3.6	2.1	1.6	7.7	1.8	3.8
Other	2.5	1.2	2.1	1.4	2.2	6.1	0.9	7.5	2,5
Total	103.0	135.4	110.4	139.4	90.3	276.7	139.0	122.7	132.5

AVERAGE STOCKING PER FARM: S.M.D. TYPE OF FARMING GROUPS

Type/group Number of farms	1 22	2 17	3 76	5 28	7 6	8	9 14	13 11	Whole Sample 193
Type of stock			He	ad of s	tock			,	
Dairy cows	85.6	82.4	0.2	3.8	-	-	-	28.5	19.3
Beef cows	0.6	0.6	30.2	14.2	4.3	30.1	7.4	2.5	17.3
Other cattle	117.3	164.9	114.6	104.1	100.5	91.0	96.1	99.1	117.6
Sheep: ewes	53.7	32.5	62.3	278.6	31.2	37.3	18.6	71.0	84.0
other sheep over 6 months	7.8	59.3	22.0	37.1	5.8	41.2	8.7	14.7	25.0
Pigs : sows	0.5	6.0	0.9	1.7	44.5		5.3	47.5	5.6
other pigs	4.5	37.6	3.8	10.6	258.3	20.0	32.1	296.8	35.7
Poultry	2.7	1.8	1.3	7.9	6000.0	-	40.7	27.3	296.8
Horses, etc.	0.4	0.1	0.6	0.1	0.7	1.1	_ '		0.4

AVERAGE OUTPUT, COSTS, MARGIN AND CAPITAL PER FARM: STANDARD MAN-DAY TYPE OF FARMING GROUPS

Type Group	1	2	~ 3	5	7	8	9	13	Whole Sample
Number of Farms	22	17	76	28	6	15	14	11	193
OUTPUT COSTS	8286	15792	18643	14609	16184	17225	15229	10885	15534
	2792	4790	5779	3416	5331	3308	4032	4683	4526
Concentrates	105	50	119	247	63	216	582	12	161
Purchased fodder		990	1482	1249	999	2544	1238	797	1298
Fertilizer	598	990	1402	1249	999	2044	1200		
Other variable costs of	*		4 7 ,						
fodder:				0.7	_	2.0	15	52	25
Sprays	4	36	28	27	5	36		62	171
Seed	86	186	190	187	174	288	143		
Contract	17	0	112	> 98	15	116	199	155	93
Bought grass	156	56	256	92	0	154	14	0	150
Miscellaneous	41	70	134	100	121	117	140	57	108
Total	303	348	719	503	314	711	511	326	547
Other variable costs of						. ,			
beef:						0.47	4.00	0.4	4:62
Transport	108	74	187	215	117	217	163	84	163
Vet. and medicines	173	310	409	285	208	370	329	179	321
Miscellaneous	98	101	386	240	67	340	174	88	254
Total	378	485	981	740	392	927	666	351	738
Labour for beef	1132	1629	2582	1927	1459	1803	2204	1732	2033
Tractors, motor vehicles			4045		500	4002	070	421	920
equipment used for beef	635	611	1217	777	703	1003	970	421	920
Share of labour, tractor 8									
machinery costs for forage								4004	4000
production & field maint.	1039	1621	2204	1827	1751	2406	2215	1094	1889
Rental value of forage are	ea 663	1154	2223	1988	718	2882	1609	1068	1804
General farm overheads	799	1320	1825	1531	851	2059	1661	900	1525
Total costs	8445	12998	19130	14204	12580	17860	15689	11385	15441
									·/····
NET MARGIN (over above	150	2704	-487	404	3604	-635	-460	-500	.94
costs)	-159	2794	-407	404	3004	-000	-400	- 300	-01
CAPITAL			,						
Cattle in opening									
valuation	8549	19533	29019	25206	27411	29678	24664	13882	23755
Beef equipment	701	764	1593	1092	595	1779	1097	846	1226
Share of grass and									
forage equipment	1557	1761	2276	1918	2166	2219	1862	1343	2019
Total capital	10807	22058	32888	28216	30171	33676	27623	16071	27000
		2150	3381	2560	2057	2744	3023	2099	2696
Total labour input	1408		1308	772	979	1067	1157	452	992
Total tractor input	541	782							942
Total machinery input	636	755	1132	868	823	1203	9 61	510	344
Subsidies (excl. F.S.					_				400
premiums) included in outpo	ut 8	93	191	80	0	73	309	0	128
PHYSICAL INPUTS AND PRODUC	CTION					-			
W	s. 708	1018	1614	1205	912	1127	1377	1083	1270
Forage area used for				1200	0.1				
beef ha	. 17	29	55	48	22	58	43	21	43
- of which grass area ha		27	53	46	21	56	42	18	41
	. 1-1	27	JJ	-10	21	50	-144	10	
Livestock units of beef	n) 05	~~			••	70	G A	3 9	63
(average during the year	r) 25	59	77	69	5 8	72	64	39	03
Liveweight production in	44000		: *******			4-0	40000	10040	10040
the year kg	.11681	19860	24708	19686	16234	17090	18399	12846	19646

PERFORMANCE IN RELATION TO OUTPUT, LAND, CAPITAL AND BEEF LIVESTOCK UNITS: STANDARD MAN-DAY TYPE OF FARMING GROUPS 9 13 2 3 5 7 8 1 Type group 76 28 6 15 14 11 22 17 Number of farms 42.7 20.8 22.4 58.0 47.8 Average forage area for beef 28.8 54.8 ha. 16.9 PERFORMANCE IN RELATION TO OUTPUT (PER £100 OF OUTPUT) £ £ £ £ £ £ £ £ Costs 23.4 32.9 19.2 26.5 43.0 31.0 33.7 30.3 Concentrates 0.4 1.3 3.8 0.1 1.7 1.3 0.3 0.6 Purchased fodder 7.3 8.1 6.2 14.8 7.2 6.3 8.0 8.5 Fertilizer 3.0 2.2 3.9 3.4 1.9 4.1 3.4 3.7 Other variable costs of forage 2.4 5.4 4.4 3.2 5.1 5.3 4.6 3.1 Other variable costs for beef 46.2 56.7 43.9 44.7 Total variable costs 50.4 42.2 48.7 42.1 43.3 55.3 53.9 57.9 56.1 49.6 57.8 51.3 Gross Margin 14.5 15.9 9.0 10.5 10.3 13.8 13.2 13.7 Labour for beef 3.9 5.8 6.4 5.3 4.3 7.7 3.9 6.5 Tr. Mv. & Equipment used for beef Share of labour & machinery for 10.1 10.8 14.0 14.5 12.5 12.5 10.3 11.8 forage & field maintenance 9.8 4.4 16.7 10.6 13.6 7.3 11.9 Rental value of forage area 8.0 10.9 8.3 5.3 12.0 9.8 10.5 9.6 8.4 General farm overheads 56.9 47.9 33.9 58.9 53.9 55.1 40.1 Total fixed costs 51.5 103.7 103.0 104.6 77.7 101.9 82.3 102.6 97.2 Total costs -3.0 -4.6 22.3 -3.7 2.8 -1.9 17.7 -2.6Net Margin (over the above costs) 181.4 147.6 186.4 195.5 193.1 130.4 139.7 176.4 Capital 0.28 0.19 0.34 0.20 0.18 0.29 0.33 0.14 ha. Forage area 5.6 6.5 9.0 9.9 8.2 8.7 8.5 6.4 Labour hours hrs. 0.36 0.42 0.42 0.36 0.47 0.37 0.30 0.41 Livestock units of beef 121 118 99 126 133 135 100 kg. 141 Liveweight production PERFORMANCE IN RELATION TO LAND USE (PER HECTARE OF FORAGE) £ £ £ £ £ £ £ £ 720.9 297.0 356.6 524.4 549.0 339.9 305.8 491.4 Output 548.5 367.4 308.0 297.3 560.4 500.8 451.9 348.8 Costs -8.9 -24.1-11.0-10.897.1 8.5 160.5 -9.4 Net Margin 192.3 227.2 404.7 164.1 174.3 176.9 243.7 317.4 Gross Margin 580.8 646.8 774.3 766.9 599.6 590.6 1344.0 640.9 Capital 19 32 52 25 41 42 35 29 Labour hours hrs. 295 431 619 723 693 690 450 412 kg. Liveweight production 0.97 0.96 0.98 0.87 0.94 0.94 0.83 0.97 ha. Grassland area to beef 108 112 kg/ha. 77 136 74 46 143 88 Nitrogen use on grass CAPITAL) PERFORMANCE IN RELATION TO CAPITAL (PER £100 OF £ £ £ £ £ £ £ £ 67.7 53.6 51.1 55.1 71.6 56.7 51.8 76.7 Output 56.8 70.8 41.7 53.0 50.3 78.1 58.9 58.2 Costs -3.1 -1.9 -1.712.7 -1.51.4 11.9 -1.5Net Margin 29.3 30.1 28.3 29.7 29.1 30.0 38.0 41.4 Gross Margin Capital (composition) 88.2 90.9 88.1 89.3 86.4 89.3 88.6 79.1 Cattle 5.3 2.0 5.3 4.0 3.9 3.5 4.8 6.5 Beef Equipment 7.2 8.4 6.8 6.6 6.7 6.9 14.4 8.0 Grass and Forage Equipment 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Total PERFORMANCE IN RELATION TO BEEF LIVESTOCK (PER LIVESTOCK UNIT) £ £ £ £ £ £ £ £ 281.5 240.1 238.8 279.1 212.4 328.4 242.2 268.5 Output 246.0 291.9 249.0 334.7 221.0 248.6 206.5 218.8 Costs -12.8 -7.2-6.35.9 62.7 -8.9 -6.3 47.5 Net Margin 124.2 122.9 158.0 132.7 128.8 120.9 155.2 162.9 Gross Margin 524.7 469.5 433.1 412.1 427.3 428.4 375.0 410.2 Capital 0.71 0.81 0.67 0.53 0.69 0.39 0.67 0.49 Forage area to beef ha. 0.46 0.66 0.55 0.69 0.67 0.37 0.78 0.46 Grassland area to beef ha. **2**8 22 21 16 28 17 18 16 Labour hours hrs. 238 288 329 338 321 286 282 463 Liveweight production kg.

ANALYSIS OF CONCENTRATE FEEDING COSTS: STANDARD MAN-DAY TYPE OF FARMING CROUPS

Group	Number of farms	fee lives	ed cost	nit and onal		Perce summer	entage cor concentra	nposition ate feed	of costs				rcentage c er concent			
Maria de La Carta de La Ca		£/LU	3umm€ r	Winter	Cereals	Milk & Milk Subs.	Compound	Straight	Minerals & Additives		Cereals	Milk & Milk Subs.			Minerals & Additives	
		£	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	22	111	32	68	37	12	49	_	1	1	26	10	58	-	2	4
_	1	81	23	77	23	17	5 7		3	-	37	9	45	- .	3	7
2	17	1			49	3	30	7	8	4	56	2	26	3	4	9
3	76	75	17	83			37	-	9	5	66	1	23	- /	, 5	4
5	28	50	10	90	45	5	4,				86	1	11		3	
7	6	93	19	81	70	=	22	-	9					•		7
8	15	46	6	94	3 8	-	29		30	3	33	-	50	2	8	
္	14	63	1 9	81	28	8	40	-	23	1	77	1	14	***	4	5
13	11	120	24	76	48	7	37	1	-	8	5 8	2	28	2	1	8
Whole Sample	1	71	18	82	43	6	37	4	7	3	55	3	2 9	2	4	7

COMPOSITION OF BEEF CATTLE INTAKE AND DISPOSAL:

STANDARD MAN-DAY TYPE OF FARMING GROUPS

Type Group	1	2	3	5	7 .	8	9	13
Number of Farms	22	17	76	28	6	15	14	-11
Average forage area for beef Ha.	16.9	28.8	54.8	47.8	22.4	58.0	42.7	20.8
				r of he			7 0	40
Intake during year	45	54	87	71	64	93	73 ~	43
Composition of cattle intake	%	%	%	%	%	%	%	%
Single suckle calves, home bred	1	1	22	17	4	31	11	4
Dairy calves retained for beef	71	8 2	2	3	١ _	-	' -	27
Purchased calves 0 - 3 months	-	8	35	23	50	1	21	56
" 3 - 12 "	3	1	16	14	43	12	. 22	9
Purchased stores 12 - 18 "	17	7	20	37	3	56	35	4
" 18 - 24 "	1	_	4	6	-	1	11	_
" over 24 "	7	2	-	1	-	-		171
	100	100	100	100	100	100	100	100
			Numbe	r of h	ead pe	r farm		
Output during year	47	47	87	7 8	71	90	7 8	45
Composition of cattle output	%	%	%	%	%	%	%	%
Fat up to 18 months	15	16	16	4	42	24	5	25
Fat 18 - 24 "	11	35	43	34	31	47	52	30
Fat over 24 "	15	17	11	25	25	16	7	25
Stores up to 12 months	22	1	12	5		5	4	-
" 12 - 18 "	18	11	10	11	2	6	21	14
12 - 18	13	19	7	17	· -	3	7	6
" 18 - 24 " ver 24 "	5	2	1	3	· -	-	4	1
Over 21	***************************************			400	100	1.00	1.00	100
	100	100	100	100	100	100	100	100

PERFORMANCE IN RELATION TO OUTPUT, LAND, CAPITAL AND LIVESTOCK UNITS: PREMIUM FARMS (BEST 25%) IN EACH STANDARD MAN-DAY TYPE OF FARMING GROUP

Type Group	1	2	3	5	8	9	Whole
		_					Sample
Number of farms	6	4	19	7	4	4	48
Average forage area for beef Ha.	14.4	52.0	56.6	54.5	82.2	86.3	45.0
PERFORMANCE IN RELATION TO OUTPUT	(PER £100						
Costs	£	3	£	£	£	£	£
Concentrates	26.8	18.6	26.0	17.1	16.4	23.3	22.9
Purchased fodder	0.5	0.0	0.8	2.0	2.1	5.2	1.2
Fertilizer	4.2	5.7	7.6	4.7	12.9	5.9	6.4
Other variable costs of forage	0.9	2.1	2.8	2.1	4.7	2.9	2.5
Other variable costs for beef	3.4	2.9	4.2	2.5	4.9	3.9	3.5
Total variable costs	35 .7	29.3	41.3	28.4	40.9	41.2	36.3
Gross Margin	64.3	70.7	58.6	71.6	59.1	58.8	63.6
						12.0	9.0
Labour for beef	9.3	6.0	8.8	13.0	9.0	6.1	3.8
Tr. Mv. & Equipment used for beef	5.6	2.3	3.5	4.7	6.2	0.1	3,0
Share of labour & machinery for	6 6	10.8	8.4	8.7	12.2	7.3	8.5
forage and field maintenance	6.6 7.0	6.8	8.4	10.9	10.6	7.4	8.3
Rental value of forage area	6.9	7.2	7.0	8.4	9.2	10.0	7.2
General farm overheads	35.4	33.0	36.1	45.7	47.3	42.7	36.7
Total fixed costs							
Total costs	71.1	62.3	77.4	74.1	88.2	83.9	73.0
Net Margin (over the above costs)	2 8.9	37.7	22.6	25.9	11.8	16,1	27.0
Capital	98.5	143.5	151.4	157.5	182.5	141.2	146.3
Forage area ha.	0.15	0.17	0.21	0.25	0.25	0.27	0.20
Labour hours hrs	. 5.8	3.7	5.5	8.1	5.6	7.5	5.6
Livestock units of beef	0.26	0.37	0.34	0.45	0.39	0.39	0.36
Liveweight production kg.	133	147	128	112	84	104	119
PERFORMANCE IN RELATION TO LAND US	E (DER HE	CTARE OF	FOR AGE)				
PERFORMANCE IN RELATION TO LAND OS	£	L 31MIO	£	£	£	£	£
Output	669.7	599.1	466.0	402.2	396.1	363.8	494.7
Costs	476.5	373.0	360.7	297.9	349.6	305.3	361.3
Net Margin	193.3	226.1	105.3	104.3	46.5	58.4	133.4
Gross Margin	430.5	423.7	272.9	288.2	234.0	213.9	314.8
Capital	660.0	859.7	705.4	633.4	722.9	513.6	724.0
	39	22	26	33	22	27	28
	891	883	596	452	332	377	591
Liveweight production kg. Grassland area to beef ha.	0.94	0.94	0.96	0.93	0.97	1.00	0.95
4200	. 118	80	102	39	165	71	86
PERFORMANCE IN RELATION TO CAPITAL							
PERFORMANCE IN RELATION TO CAPITAL	3. (ILIC &I)	£	£	£	£	3	£
Output	101.5	69.7	66.1	63.5	54.8	70.8	68.3
Costs	72.2	43.4	51.1	47.0	48.4	59.4	49.9
Net Margin	29.3	26.3	14.9	16.5	6.4	41.4	18.4
Gross Margin	65.2	49.3	38.7	45.5	32.4	41.6	43.5
Capital (composition)							
Cattle	86.1	88.2	92.1	94.5	88.6	92.9	91.7
Beef Equipment	7.9	3.0	2.3	2.2	5.0	1.4	2.5
Grass and Forage Equipment	6.0	8.9	5.6	3.4	6.3	5.7	5.8
Total	100.0	100.0	100.0	100.0	1,00.0	100.0	100.0
PERFORMANCE IN RELATION TO BEEF LI		(PER LIVE			0	r	£
	£ 206.4	£	£	.£ 	£ 256.9	£ 257.9	280.9
Output	386.4	270.8	291.5	220.0 162.9	236.9	216.4	205.2
Costs	274.9 111 5	168.6	225.6 65.8	57.1	30.2	41.4	75.8
Net Margin	111.5 248.4	102.2 191.5	170.7	157.6	151.8	151.6	178.8
Gross Margin	248.4 380.7	388.6	441.2	346.4	468.8	364.1	411.2_
Capital hoof ho				0.55	0.65	0.71	
Forage area to beef ha. Grassland area to beef ha.	0.58 0.54		0.63 0.60	0.55	0.63	0.71	
Labour hours hrs.		10	16	18	14	19	16
Liveweight production kg.	514	399	373	247	215	267	336

ANALYSIS OF CONCENTRATE FEEDING COSTS:

PREMIUM FARMS (BEST 25%) IN EACH STANDARD MAN-DAY TYPE OF FARMING GROUP ,

Group	Number of farms	fee lives	ed cost	unit and		Percentage composition of summer concentrate feed costs						Percentage composition of winter concentrate feed costs							
		£/ĽU	Sumre	r Winter	Cereals	Milk & Milk Subs.	Compound		Minerals & Additives		Cereals	Milk & Milk Subs.	Compound	_	Minerals & Additives				
		£	%	%	%	%	%	. %	%	%	%	%	%	%	%	%			
1	6	103	25	75	27	20	50	1	1	1	24	19	51	1	3	2			
2	4	50	23	77	28	22	49		-	-	43	6	41	- .	-	9			
3	19	75	26	7 4	63	2	16	1	13	5	73	3	13		8	3			
5	7	38	4	96	-	18	59	. -	23	- -	75	1	10	1	12	2			
8 .	4	42	2	98	24	, * -	· -	-	55	21	45	_	41	. 	8	6			
9	4	60	10	90	6	14	75	-	2	3	77	1	10	-	4	8			
Whole Sampl	2	64	21	79	54	7	26	1	9	3	66	4	19	1	6	4			

COMPOSITION OF BEEF CATTLE INTAKE AND DISPOSAL:

PREMIUM FARMS (BEST 25%) IN EACH STANDARD MAN-DAY TYPE OF FARMING GROUP

TICHITOM TARRES (220)							
Type Group	1	2	3	5	8	9	Whole Sample
Number of farms	6	4	19	7	4	4	48
Average forage area for beef Ha.	14.4	52.0	56.6	54.5	82.2	86.3	45.0
· · · · · · · · · · · · · · · · · · ·							
•			Number	of head	per fa	.rm	
Intake during year	44	107	97	98	231	120	81
Composition of cattle intake	%	%	%	%	%	%	%
Single suckle calves, home bred	1 , ,	2	30	36	16	17	26
Dairy calves retained for beef	6 8	80	6	-	-	-	19
Purchased calves 0 - 3 months	•	12	31	17	1	24	26
" 3 - 12 "	-	1	16	10	17	16	12
Purchased stores 12 - 18 "	2	5	8	26	65	19	9
" 18 - 24 "	4	_	9	9	1	24	6
" over 24 "	25	-	1	2	-		2
	100	100	100	100	100	100	100
			Number	of head	l per fa	arm	
Output during year	53	84	90	104	218	137	82
Composition of cattle output	%	%	%	%	%	%	%
Fat up to 18 months	9	31	16	13	20	17	19
Fat 18 - 24 "	15	8	48	31	62	_	32
Fat over 24 "	27	20	9	14	14	24	12
Stores up to 12 months	40	-	12	13	3	16	11
" 12 - 18 "	9	4	10	6	1	19	12
" 18 - 24 "	-	3 8	4	21	 .	24	10
" over 24 "	1		2	3	-	-	4
					_		
	100	100	100	100	100	100	100

VARIABILITY OF MARGINS PER £100 OUTPUT IN EACH STANDARD MAN-DAY TYPE OF FARMING GROUP

S.M.D. type of		Range in	n Group	en e	Range in Premium farms (best 25% of margins)				
farming group	Number of farms	Margin/£1(Minimum	00 output Maximum	Standard Error	Number of farms	Margin/£10 Minimum	0 output Maximur		
1	22	-126.9	42.7	7.83	6	12.7	42.7		
2	17	-114.3	51.7	9.03	4	26.3	51.7		
3	7 6	-140.1	65.9	4.12	19	10.6	65.9		
5	23	-60.6	42.6	5.03	7	17.0	42.6		
7	6	-134.7	52.3	23.60	2	13.4	52.3		
8	15	-120.1	28.5	9.05	4	4.8	28.5		
9	14	-249.8	22.9	20.51	4	7.7	22.9		
13	11	-141.1	42.8	14.76	3	5.5	42.8		
Whole Sample	193	-249.8	65.9	3.04	48	13.7	65.9		

SECTION IV

Survey results for beef enterprises grouped on the basis of their size in terms of average livestock units during 1978-79.

DISTRIBUTION OF FARMS BY SIZE OF BEEF UNIT

	SIZE OF BEEF UNIT (LIVESTOCK UNITS)	UNDER 25	25 TO 49.9	50 TO 74.9	75 TO 99.9	100 TO 149.9	150 AND	WHOLE SAMPLE
Α.	BY INTAKE GROUP (1)						OVER	
INTA GROI								
1		0	8	7	5	5	7	32
2		19	8	5	4	4	1	41
4		9	18	8	10	6	1 1	52
6		6	4	2	3	3	1	19
	,8 & 9	8	10	7	0	6	1	32
10		2	3	4	0	0	2	11
11	I	4	2	0	0	0	0	6
Who	Le							
Samp	ole	48	53	33	22	24	13	193
		1						
В.	BY OUTPUT GROUP (2)					Market State of the Control of the C		
OUTI	PUT					4		
GROU	JP					•		
1		3	5	2	5	3	1 1	19
2		13	14	15	6	6	8	62
3		11	9	7	5	s 8	0	40
5		. 6	4	2	1	2	1 ,	16
6		8	11	1	2	2	1	25
7		6	9	6	2	3	2	28
Othe		1	1	0	1	0	. 0	3
Who:								
Samp	ole	48	53	33	22	24	13	193
C.	BY STANDARD MAN-DAY	TYPE OF F	ARMING GR	OUP (3)				
S.M.					•			
TYPE	E GROUP							٠,.
1		15	5	· 1	1	0	, 0	22
2		4	5	3	1	3	1	17
3	•	9	22	16	12	9	8	76
5		3	10	6	2	6	1	28
7		2	1	1	1	1	0	6
8		3	4	2	2	3	1	15
9		5	3	2	1	1	2	14
13		5	3	1	2	0	0	11
Othe		2	0	. 1	0	1	0.	4
Who] Samp		48	53	33	22	24	13	193

⁽¹⁾ See page 9

⁽²⁾ See page 29

⁽³⁾ See page 49

PERFORMANCE IN RELATION TO OUTPUT, LAND, CAPITAL AND BEEF LIVESTOCK UNITS BY SIZE OF BEEF UNIT

Size of beef unit - livestock units							
			50 to	75 to 1		150 &	Whole
	25	49.9	74.9		149.9	over	Sample
Number of farms	48	53	33	22	24	13	193
Average forage area to beef Ha.	13.2	27.7	40.6	57. 8	76.1	135.0	43.0
PERFORMANCE IN RELATION TO OUTPUT (PER £100	OF OU	TPUT)				
Costs	£	£	£	£	£	£	£
Concentrates	31.9	29.6	32.2	31.9	26.2	26.4	29.1
Purchased fodder	1.0	1.2	0.9	1.3	0.8	1.0	1.0
Fertilizer	5.9	8.0	7.3	9.6	8.5	9.2	8.4
Other variable costs of forage	2.6	3.5	2.9	2.4	4.7	4.0	3.5
Other variable costs for beef	4.8	5.2	4.7	4.8	4.0	5.2	4.8
Total variable costs	46.2	47.5	48.0	50.0	44.2	45.7	46.8
Gross Margin	53.8	52.5	52.0	49.9	55. 8	54.3	53.2
Labour for beef	17.8	17.7	14.9	10.4	11.6	10.4	13.1
Tr. Mv. & Equipment used for beef	6.7	5.8	8.0	5.6	5.6	4.9	5.9
Share of labour & machinery for	• • •	• • • • • • • • • • • • • • • • • • • •					
forage and field maintenance	13.4	16.8	11.9	12.1	11.0	9.8	12.2
Rental value of forage area	12.6	11.4	13.6	10.8	11.1	11.2	11.6
General farm overheads	11.0	11.8	10.3	8.5	9.4	9.1	9.8
Total fixed costs	61.4	63.3	58.7	47.4	48.6	45.5	52.6
Total costs	107.6	110.9	106.7	97.5	92.8	91.2	99.4
Net Margin (over the above costs)	-7.6	-10.9	-6.7	2.5	7.2	8.8	0.6
Capital	143.5	171.3	189.1	166.5	180.7	174.9	173.8
							0.28
Forage area ha.	0.26	0.32	0.29	0.25	0.28		
Labour hours hrs.	11.1	11.1	9.3	6.5	7.2	6.5	8.2
Livestock units of beef	0.32	0.41	0.43	0.37	0.43	0.43	0.41
Liveweight production kg.	139	138	121	108	140	118	126
PERFORMANCE IN RELATION TO LAND USE	(PER H	ECTARE (OF FORAG	GE)			
	£	£	£	£	£	£	£
Output	380.5	317.0	345.7	404.6	361.1	372.3	361.3
Costs	409.4	351.5	368.9	394.3	335.1	339.5	359.1
							000.1
Net Margin	-28.9	-34.4	-23.2	10.3	26.0	32.8	2.2
Net Margin Gross Margin	-28.9 204.8	-34.4 166.4					
_			-23.2	10.3	26.0	32. 8	2.2
Gross Margin	204.8	166.4	-23.2 179.9	10.3 201.8	26.0 201.4	32.8 202.0	2.2 192.2
Gross Margin Capital	204.8 545.9	166.4 542.9	-23.2 179.9 653.7	10.3 201.8 673.4	26.0 201.4 652.6	32.8 202.0 650.9	2.2 192.2 628.0
Gross Margin Capital Labour hours hrs.	204.8 545.9 42	166.4 542.9	-23.2 179.9 653.7	10.3 201.8 673.4	26.0 201.4 652.6	32.8 202.0 650.9 24 439	2.2 192.2 628.0
Gross Margin Capital Labour hours hrs. Liveweight production kg.	204.8 545.9 42 528	166.4 542.9 35 439	-23.2 179.9 653.7 32 419	10.3 201.8 673.4 26 436	26.0 201.4 652.6 26 507	32.8 202.0 650.9 24 439	2.2 192.2 628.0 30 457
Gross Margin Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha.	204.8 545.9 42 528 0.93 46	166.4 542.9 35 439 0.94 55	-23.2 179.9 653.7 32 419 0.96	10.3 201.8 673.4 26 436 0.95	26.0 201.4 652.6 26 507 0.97	32.8 202.0 650.9 24 439 0.97	2.2 192.2 628.0 30 457 0.96
Gross Margin Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha.	204.8 545.9 42 528 0.93 46	166.4 542.9 35 439 0.94 55	-23.2 179.9 653.7 32 419 0.96	10.3 201.8 673.4 26 436 0.95	26.0 201.4 652.6 26 507 0.97	32.8 202.0 650.9 24 439 0.97	2.2 192.2 628.0 30 457 0.96
Gross Margin Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL	204.8 545.9 42 528 0.93 46 (PER £10	166.4 542.9 35 439 0.94 55	-23.2 179.9 653.7 32 419 0.96 68 APITAL)	10.3 201.8 673.4 26 436 0.95 107	26.0 201.4 652.6 26 507 0.97 83	32.8 202.0 650.9 24 439 0.97	2.2 192.2 628.0 30 457 0.96 82
Gross Margin Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha.	204.8 545.9 42 528 0.93 46 (PER £10 £	166.4 542.9 35 439 0.94 55 00 OF C	-23.2 179.9 653.7 32 419 0.96 68 APITAL)	10.3 201.8 673.4 26 436 0.95 107	26.0 201.4 652.6 26 507 0.97 83	32.8 202.0 650.9 24 439 0.97 107	2.2 192.2 628.0 30 457 0.96 82
Gross Margin Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7	166.4 542.9 35 439 0.94 55 00 OF C	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9	10.3 201.8 673.4 26 436 0.95 107 & 60.1	26.0 201.4 652.6 26 507 0.97 83	32.8 202.0 650.9 24 439 0.97 107 £ 57.2	2.2 192.2 628.0 30 457 0.96 82 £ 57.5
Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0	166.4 542.9 35 439 0.94 55 00 OF Ca £ 58.4 64.7	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5	26.0 201.4 652.6 26 507 0.97 83 £ 55.3 51.4	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2
Gross Margin Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3	166.4 542.9 35 439 0.94 55 00 OF Carrello	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6	10.3 201.8 673.4 26 436 0.95 107 & 60.1 58.5 1.5	26.0 201.4 652.6 26 507 0.97 83 £ 55.3 51.4 4.0	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3
Gross Margin Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3	166.4 542.9 35 439 0.94 55 00 OF Carrello	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6	10.3 201.8 673.4 26 436 0.95 107 & 60.1 58.5 1.5	26.0 201.4 652.6 26 507 0.97 83 £ 55.3 51.4 4.0	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3
Gross Margin Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition)	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5	166.4 542.9 35 439 0.94 55 00 OF Carrello	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5	10.3 201.8 673.4 26 436 0.95 107 & 60.1 58.5 1.5 30.0	26.0 201.4 652.6 26 507 0.97 83 55.3 51.4 4.0 30.9 89.5 4.2	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5
Gross Margin Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5 85.9	166.4 542.9 35 439 0.94 55 00 OF Ca £ 58.4 64.7 -6.3 30.6 83.1	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0	26.0 201.4 652.6 26 507 0.97 83 £ 55.3 51.4 4.0 30.9	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6
Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5	166.4 542.9 35 439 0.94 55 00 OF Ca £ 58.4 64.7 -6.3 30.6 83.1 6.0	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0	26.0 201.4 652.6 26 507 0.97 83 55.3 51.4 4.0 30.9 89.5 4.2	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5
Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass and Forage Equipment	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5 85.9 5.2 8.9 100.0 TESTOCK	166.4 542.9 35 439 0.94 55 00 OF C £ 58.4 64.7 -6.3 30.6 83.1 6.0 10.9 100.0 (PER LIV	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5 87.8 5.3 6.9 100.0 /ESTOCK	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0 85.3 6.0 8.6 100.0 UNIT)	26.0 201.4 652.6 26 507 0.97 83 55.3 51.4 4.0 30.9 89.5 4.2 6.4 100.0	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0 92.6 2.0 5.4 100.0	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0
Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass and Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LIV	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5 85.9 5.2 8.9 100.0 TESTOCK £	166.4 542.9 35 439 0.94 55 00 OF Canal State of the	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5 87.8 5.3 6.9 100.0 /ESTOCK	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0 85.3 6.0 8.6 100.0 UNIT)	26.0 201.4 652.6 26 507 0.97 83 £ 55.3 51.4 4.0 30.9 89.5 4.2 6.4 100.0	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0 92.6 2.0 5.4 100.0	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0
Gross Margin Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass and Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LIV	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5 85.9 5.2 8.9 100.0 (ESTOCK £ 317.0	166.4 542.9 35 439 0.94 55 00 OF Ca £ 58.4 64.7 -6.3 30.6 83.1 6.0 10.9 100.0 (PER LIV £	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5 87.8 5.3 6.9 100.0 VESTOCK £	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0 85.3 6.0 8.6 100.0 UNIT) £ 266.7	26.0 201.4 652.6 26 507 0.97 83 £ 55.3 51.4 4.0 30.9 89.5 4.2 6.4 100.0	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0 92.6 2.0 5.4 100.0 £ 234.4	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0
Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass and Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LIV Output Costs	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5 85.9 5.2 8.9 100.0 (ESTOCK £ 317.0 341.1	166.4 542.9 35 439 0.94 55 00 OF Ca £ 58.4 64.7 -6.3 30.6 83.1 6.0 10.9 100.0 (PER LIV £ 244.5 271.0	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5 87.8 5.3 6.9 100.0 /ESTOCK £ 231.4 247.0	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0 85.3 6.0 8.6 100.0 UNIT) £ 266.7 259.9	26.0 201.4 652.6 26 507 0.97 83 \$2 55.3 51.4 4.0 30.9 89.5 4.2 6.4 100.0 \$2 231.1 214.5	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0 92.6 2.0 5.4 100.0 £ 234.4 213.8	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5
Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass and Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LIV Output Costs Net Margin	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5 85.9 5.2 8.9 100.0 PESTOCK £ 317.0 341.1 -24.1	166.4 542.9 35 439 0.94 55 00 OF C £ 58.4 64.7 -6.3 30.6 83.1 6.0 10.9 100.0 (PER LIV £ 244.5 271.0 -26.5	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5 87.8 5.3 6.9 100.0 /ESTOCK £ 231.4 247.0 -15.5	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0 85.3 6.0 8.6 100.0 UNIT) £ 266.7 259.9 6.8	26.0 201.4 652.6 26 507 0.97 83 55.3 51.4 4.0 30.9 89.5 4.2 6.4 100.0 £ 231.1 214.5 16.7	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0 92.6 2.0 5.4 100.0 £ 234.4 213.8 20.6	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5
Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass and Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LIV Output Costs Net Margin Gross Margin	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5 85.9 5.2 8.9 100.0 ESTOCK £ 317.0 341.1 -24.1 170.7	166.4 542.9 35 439 0.94 55 00 OF Canal State of the	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5 87.8 5.3 6.9 100.0 /ESTOCK £ 231.4 247.0 -15.5 120.4	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0 85.3 6.0 8.6 100.0 UNIT) £ 266.7 259.9 6.8 133.0	26.0 201.4 652.6 26 507 0.97 83 55.3 51.4 4.0 30.9 89.5 4.2 6.4 100.0 £ 231.1 214.5 16.7 128.9	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0 92.6 2.0 5.4 100.0 £ 234.4 213.8 20.6 127.2	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5 130.3
Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass and Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LIV Output Costs Net Margin Grass and Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LIV Output Costs Net Margin Gross Margin Capital	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5 85.9 5.2 8.9 100.0 (ESTOCK £ 317.0 341.1 -24.1 170.7 454.8	166.4 542.9 35 439 0.94 55 00 OF Canal State of the	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5 87.8 5.3 6.9 100.0 /ESTOCK £ 231.4 247.0 -15.5 120.4 437.6	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0 85.3 6.0 8.6 100.0 UNIT) £ 266.7 259.9 6.8 133.0 443.9	26.0 201.4 652.6 26 507 0.97 83 £ 55.3 51.4 4.0 30.9 89.5 4.2 6.4 100.0 £ 231.1 214.5 16.7 128.9 417.7	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0 92.6 2.0 5.4 100.0 £ 234.4 213.8 20.6 127.2 409.9	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5 130.3 425.8
Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass and Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LIV Output Costs Net Margin Gross Margin Capital Forage area to beef ha.	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5 85.9 5.2 8.9 100.0 (ESTOCK £ 317.0 341.1 -24.1 170.7 454.8 0.83	166.4 542.9 35 439 0.94 55 00 OF Castron Street Stre	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5 87.8 5.3 6.9 100.0 /ESTOCK £ 231.4 247.0 -15.5 120.4 437.6 0.67	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0 85.3 6.0 8.6 100.0 UNIT) £ 266.7 259.9 6.8 133.0 443.9 0.66	26.0 201.4 652.6 26 507 0.97 83 £ 55.3 51.4 4.0 30.9 89.5 4.2 6.4 100.0 £ 231.1 214.5 16.7 128.9 417.7 0.64	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0 92.6 2.0 5.4 100.0 £ 234.4 213.8 20.6 127.2 409.9 0.63	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5 130.3 425.8
Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass and Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LIV Output Costs Net Margin Grass and Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LIV Output Costs Net Margin Gross Margin Capital Forage area to beef ha. Grassland area to beef ha.	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5 85.9 5.2 8.9 100.0 (ESTOCK £ 317.0 341.1 -24.1 170.7 454.8 0.83 0.78	166.4 542.9 35 439 0.94 55 00 OF Ca £ 58.4 64.7 -6.3 30.6 83.1 6.0 10.9 100.0 (PER LIV £ 244.5 271.0 -26.5 128.3 418.7 0.77 0.72	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5 87.8 5.3 6.9 100.0 VESTOCK £ 231.4 247.0 -15.5 120.4 437.6 0.67 0.64	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0 85.3 6.0 8.6 100.0 UNIT) £ 266.7 259.9 6.8 133.0 443.9 0.66 0.63	26.0 201.4 652.6 26 507 0.97 83 £ 55.3 51.4 4.0 30.9 89.5 4.2 6.4 100.0 £ 231.1 214.5 16.7 128.9 417.7 0.64 0.62	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0 92.6 2.0 5.4 100.0 £ 234.4 213.8 20.6 127.2 409.9 0.63 0.61	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5 130.3 425.8 0.68 0.65
Capital Labour hours hrs. Liveweight production kg. Grassland area to beef ha. Nitrogen use on grass kg/ha. PERFORMANCE IN RELATION TO CAPITAL Output Costs Net Margin Gross Margin Capital (composition) Cattle Beef Equipment Grass and Forage Equipment Total PERFORMANCE IN RELATION TO BEEF LIV Output Costs Net Margin Gross Margin Capital Forage area to beef ha.	204.8 545.9 42 528 0.93 46 (PER £10 £ 69.7 75.0 -5.3 37.5 85.9 5.2 8.9 100.0 (ESTOCK £ 317.0 341.1 -24.1 170.7 454.8 0.83	166.4 542.9 35 439 0.94 55 00 OF Castron Street Stre	-23.2 179.9 653.7 32 419 0.96 68 APITAL) £ 52.9 56.4 -3.6 27.5 87.8 5.3 6.9 100.0 /ESTOCK £ 231.4 247.0 -15.5 120.4 437.6 0.67	10.3 201.8 673.4 26 436 0.95 107 £ 60.1 58.5 1.5 30.0 85.3 6.0 8.6 100.0 UNIT) £ 266.7 259.9 6.8 133.0 443.9 0.66	26.0 201.4 652.6 26 507 0.97 83 £ 55.3 51.4 4.0 30.9 89.5 4.2 6.4 100.0 £ 231.1 214.5 16.7 128.9 417.7 0.64	32.8 202.0 650.9 24 439 0.97 107 £ 57.2 52.2 5.0 31.0 92.6 2.0 5.4 100.0 £ 234.4 213.8 20.6 127.2 409.9 0.63	2.2 192.2 628.0 30 457 0.96 82 £ 57.5 57.2 0.3 30.6 88.0 4.5 7.5 100.0 £ 245.0 243.5 1.5 130.3 425.8

ANALYSIS OF CONCENTRATE FEEDING COSTS BY SIZE OF BEEF UNIT

Unit	Number of Farts	feed livest its	d cost	unit and sonal		Perc summer	centage com r concentra	npositio ate feed	n of 1 costs				ercentage ter concen		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
		£/LU f	Summer	r Winter	Cereals	Milk & Milk Subs.	Compound	Straigh	ht Minerals & Additives		Cereals	Milk & Milk Subs.			ht Minerals & Additives	3
		£	%	%	%	Subs.	%	%	%	%	%	%	%	%	%	%
Under 25	48	101	27	. 73	40	10	47	0	2	0	44	7	41	1	3	4
25 - 49.9	53	72	18	82	51	4	34	0	5	6	57	4	31	0	4	*3
50 - 74.9	33	75	_23	77	38	6	30	15	10	0	59	3	19	10	5	5
75 - 99.9	22	85	17	83	30	5	62	0	3	0	53	3	36	0	3	5
100 - 149.9	24	61	9	91	36	18	37	0	7	2	50	2	40	0	3	4.
150 & over	13	62	18	82	59	2	17	0	13	8 '	60	. .1	14	0	6	19
Whole sam- ple	193	71	18	82	43	6	37	4	7	3	55	3	29	2	4	7

COMPOSITION OF BEEF CATTLE INTAKE AND DISPOSAL BY SIZE OF BEEF UNIT

Size of beef unit - Livestock Units	Under 25	25 to 49.9	50 to 74.9	75 to 99.9	100 to 149.9	150 & over	Whole Sample
Number of farms	48	53	33	22	24	13	193
Average forage area for beef Ha.	13.2	27.7	40.6	57.8	76.1	135.0	43.0
			Number	of head	per fa	r m	
Intake during year	25	46	71	88	154	185	73
Composition of cattle intake	%	%	%	%	%	%	%
Single suckle calves, home bred	3	11	14	19	12	40	17
Dairy calves retained for beef	40	14	10	14	42	7	13
Purchased calves 0 - 3 months	18	26	24	51	22	22	26
" 3 - 12 "	13	16	17	14	6	11	14
Purchased stores 12 - 18 "	17	27	27	1	6	13	25
" 18 - 24 "	3	5	8	_	9	7	4
" over 24 "	6	1		_	4	-	1
	100	100	100	100	100	100	100
•							
			Number	of head	per fai	rm	
Output during year	26	54	74	85	153	164	74
Composition of cattle output	%	%	%	%	%	%	%
Fat up to 18 months	12	10	13	28	12	18	15
Fat 18 - 24 months	25	25	45	25	42	64	39
Fat over 24 "	21	15	16	13	22	2	15
Stores up to 12 months	16	18	4	3	6	8	9
" 12 - 18 "	16	17	8	19	6	6	11
" 18 - 24 "	4	11	14	11	9 :	2	9
" over 24 "	6	3		1	4	1	2
		-		-	-	-	. –
	100	100	100	100	100	100	100
1		200					•00

ANALYSIS OF CONCENTRATE FEEDING COSTS BY SIZE OF BEEF UNIT

Size of Beef Unit Live- stock Units	Number of Farus	feed livest its	cost	nit and onal		Percentage composition of summer concentrate feed costs						Percentage composition of winter concentrate feed cost							
e e		£/LU S		Winter	Cereals	Milk & Milk Subs.			t Minerals & Additives	Other	Cereals %	Milk & Milk Subs.	Compound %	Straight %	Minerals & Additives %	Other %			
	1	£	%	%	%	%	%	%	%	70	70	/0	/0	/0	70	70			
Under 25	48	101	27	73	40	10	47	0	2	0	44	7	41	1	3	4			
25 - 49.9	53	72	18	82	51	4	34	0	5	6 4	57	4	31	0	4	3			
50 - 74.9	33	75	23	77	38	6	30	15	10	0	59	3	19	10	5	5			
75 - 99.9	22	85	17	83	30	5	62	0	3	0	53	3	36	0	3	³ 5			
100 - 149.9	24	61	9	91	36	18	37	0	7	2	50	2	40	0	3	4.			
150 & over	13	62	18	82	59	2	17	o	13	8	60	1	14	0	6	19			
Whole																			
sam- ple	193	71	18	82	43	6	37	4	7	3	55	3	29	2	4	7			
					1.														

APPENDICES

APPENDIX I

Definitions of terms and conventions used in calculating the performance tables

Output

Sales net of commission, tolls, levies, etc. adjusted by the difference between the opening and closing cattle valuations and less any cattle purchases. Fatstock premiums and any grants or subsidies received for beef cattle are included.

Variable Costs

Actual use and cost of purchased materials and services was recorded.

Concentrates include home grown grain charged at market values.

Purchased fodder includes home produced stockfeed potatoes charged at market price.

Fertilisers include an allowance for periodic applications of lime and slag.

Miscellaneous costs of forage include such items as hay and silage additives and an allowance for baling twine.

Miscellaneous costs of beef cattle includes purchased straw for litter, water charges, cattle insurances, A.I. and service fees, specific building rental payments etc.

Labour

The hours recorded for attending beef cattle have been charged at a standard rate of £1.60 per hour.

Tractors, motor vehicles, machinery and equipment.

The following standard charges have been used to value the use recorded:

Tractors,	, up to 40 h.p.						£1.36	per	hour
	ove	r 40	and	up	to	55 h.p.	£1.60	11	11
	11	55	**	11	ti	70 h.p.	£2.01	11	**
	11	70	ti	11	**	100 h.p.	£2.88	11	**
	11	100	h.p	•			£3.65	11	1t
Cars			,				15p pe	er mi	ile
Landrovers	5						25p p	er mi	ile

Repairs and depreciation of machinery and equipment at rates derived from the Farm Management Survey varying between 26% and 28% of present value, depending on the standard man-day type of farming class of each farm.

Share of labour, tractor and machinery costs for forage production.

Labour and tractor costs have been charged at standard rates per hectare of grazing or "roots" and per tonne of hay and silage consumed.

Machinery and equipment has been valued as below (Capital) and the charge for its depreciation and repairs shared in proportion to its use for fodder consumed by the beef cattle related to total annual use.

Capital

The opening inventory of cattle has been valued at market values at 1st April 1978.

Machinery and equipment values have been based on current (1978) prices written down according to the age of each machine.

The share of grass and forage equipment attributed to the beef enterprise has been calculated as a proportion of its use for beef cattle forage to its total annual use.

General Farm Overheads

Fifteen per cent of the total labour input plus a charge per hectare of forage devoted to beef cattle. The latter charge has been derived from the Farm Management Survey and varied with the standard man-day type of farming class of each farm between £24 per hectare and £35 per hectare.

Premium Farms

The criterion used to determine the "best 25%"has been the net margin per £100 of output.

APPENDIX II

Counties covered in the survey by each University Centre

UNIVERSITY COLLEGE OF WALES (ABERYSTWYTH) All counties in Wales

ASKHAM BRYAN COLLEGE OF AGRICULTURE

Cleveland

North Yorkshire West Yorkshire South Yorkshire

Humberside

CAMBRIDGE UNIVERSITY

Bedford

Greater London (E)

Cambridge

Lincoln (part)

Essex

Norfolk

Hertford

Suffolk

EXETER UNIVERSITY

Cornwall and Scilly Isles

Devon Dorset Somerset

NEWCASTLE UNIVERSITY

Cumbria

Tyne & Wear

Durham

Northumberland

NOTTINGHAM UNIVERSITY

Derby

Leicester

Lincoln (part)

Nottingham

Northampton

MANCHESTER UNIVERSITY

Cheshire

Salop

Lancashire

Stafford

Merseyside

Greater Manchester

READING UNIVERSITY

Avon

West Midlands

Berkshire

Oxford

Buckingham

Warwick

Gloucester

Hereford & Worcester Greater London (SE)

Hampshire

Isle of Wight Wiltshire

WYE COLLEGE (LONDON UNIVERSITY)

Kent

Surrey

Sussex East

Sussex West

APPENDIX III

A Structure survey of Beef Production in England and Wales 1977

This survey took the form of single visit interviews with a randomly selected sample of beef producers during the early months of 1977. It had three main objectives:

- (1) To throw some light on the recording difficulties likely to be encountered when conducting a full economic study of beef production on a randomly selected sample of farms and in this respect acted as a pilot to the 1978-9 study.
- (2) To gather information on the structure of the beef industry.
- (3) To attempt to devise a method of classifying or grouping beef producing enterprises so that the results of a subsequent economic study can be presented in a meaningful way.

An attempt is made here to present, as simply as possible, and without attempting to draw conclusions, some of the salient results of these objectives.

Section I simply describes the geographical location of the sample farms.

Section II describes the structure of production on the 166 farms in terms of the number and ages of animals moving into and out of their beef enterprises.

Section III serves to indicate the complex variety of beef production systems which were operated on this sample of farms. The difficulties of classification and grouping are emphasised when it is remembered that more than one 'system' may be operated on a particular farm. The rapidity with which 'systems' can be varied to suit changing circumstances is indicated by Table 5 in this section.

The next two sections present the results of an attempt to group the 166 beef enterprises on either (a) their main type of cattle intake (Section IV) or (b) their main type of disposal (Section V). The number of farms on which cattle intake or disposal was confined to one age group only is also shown in the respective sections.

Finally, as part of objective (1), information was gathered on the levels of concentrate feeding to beef cattle. The results are summarised in Section VI in terms of quantities fed, for most of the type-groups identified in Sections IV and V.

A fuller report on this survey and, separately, of concentrate feeding, has already been given limited circulation and is available on request from the Department of Agricultural Economics and Management, University of Reading.

SECTION I: GEOGRAPHICAL DISTRIBUTION

Table 1

Regional Location of 166 Farms

Region	Number of Farms	%
Eastern	19	11.4
South East	24	14.5
East Midlands	19	11.4
West Midlands	11 · · ·	6.6
South West	46	27.7
Northern	26	15.7
Yorks/Lancs	1	0.6
Wales	20	12.1
Total	166	100.0

Eastern Region:

Bedfordshire, Cambridgeshire, Essex, Hertfordshire, Lincolnshire (Holland), Greater London, Norfolk and Suffolk.

South Eastern Region:

Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Kent, Oxfordshire, Surrey, East and West Sussex.

East Midland Region:

Derbyshire, Leicestershire, Lincolnshire (Kesteven and Lindsey), Northamptonshire and Nottinghamshire.

West Midland Region:

Cheshire, Hereford and Worcester, Salop, Staffordshire, Warwickshire and West Midlands.

South Western Region:

Cornwall, Devon, Dorset, Gloucestershire, Avon, Somerset, Isles of Scilly and Wiltshire.

Northern Region:

Cleveland, Cumbria, Durham, Tyne and Wear, Northumberland and North Yorkshire (part)

Yorks/Lancs Region:

Lancashire, Merseyside, Greater Manchester, South Yorkshire, West Yorkshire and Humberside.

Wales:

All counties.

SECTION II: STRUCTURE OF CATTLE INTAKE AND DISPOSALS

<u>Composition of beef cattle intake during 1976 on the</u>

166 farms in the survey

	Ą	ge (ı	nths	3)		Number	Percentage
			up	to	3*	8761	86.1 (1)
Over	3	and	up	to	6	54	0.5
Over	6	and	up	to	9	116	1.0
Over	9	and	up	to	12	758	7.5
Over	12	and	up	to	15	150	1.5
Over	15	and	up	to	18	220	2.1
Over	18	and	up	to	21	15	0.2
Over	21	and	up	to	24	58	0.6
Over	24					47	0.5
Total						10179	100.0

^{*} Including calves born on the farms and reared for beef.

The above table shows the number and ages of beef cattle coming on to the farms in the survey. Also, the percentage distribution according to age. The high proportion of cattle intake in the 'under three months' group may not be typical of the beef industry as a whole. The sample was drawn from farms on which there were male cattle under one year old in June 1976, so that farms finishing older cattle, i.e. store buying farms may be under represented. (1)

⁽¹⁾ This compares with 56% in the 1978-9 Survey for which the sample was drawn from farms having male cattle under two years old.

Composition of cattle disposals from the 166 farms

in the survey during 1976

Туре	Stor	·e	Fa	t	Breed	ding	То	tal
Age (mths)	No.	%	No.	%	No.	%	No.	%
up to 3	50	2	-	-		: -	50	1
over 3 and up to 6	511	16	, -	-	-	. -	511	5
over 6 and up to 9	228	7		-		_	22 8	2
over 9 and up to 12	733	22	246	4	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	-	979	10
over 12 and up to 15	366	11	328	5	29	11	723	7
over 15 and up to 18	697	21	2169	35	13	5	2879	30
over 18 and up to 21	256	8	697	11	23	9	. 976	10
over 21 and up to 24	280	9	1819	29	57	22	2156	22
over 24	138	4	987	16	137	53	1262	13
Total	3259	100	6246	100	259	100	9764	100

The difference in the total intake and total disposal figure of cattle, is due to change in the size of the beef enterprise and to deaths during the year.

Total disposals were:	%
as stores	33
fat	64
for breeding	3
	100
- 75-	

SECTION III: SYSTEMS OF BEEF PRODUCTION

Table 4

The systems of beef production which farmers in the survey said they were following

Type of Intake	Number of	farms
Single suckle herd	34	
Double suckle herd	8	•
Multiple suckle calf rearing	19	
Bucket rears all own dairy calves	34	
Bucket rears surplus/a few own dairy calves	9	
Bucket rears purchased calves	43	
Buys weaned calves	7	
Buys stores	13	•
Other	3	
Type of output		
Selling stores:		
under 12 months	2	
12 to 15 months		
15 to 18 months	8	
over 18 months	8	
	14	
age not specified	23	
Selling fat cattle:		
12 to 18 months	16	
18 to 24 months	11	
over 24 months	18	
age not specified	56	
Other	6	
No definite system/in transition	11	

Notes:

- (1) The intake and output system was recorded separately for most farms.
- (2) Many farms indicated more than one intake or output system.

Table 5

Reasons given for not adhering to a definite beef production system

	Number of
	times
	recorded
Stage at sale depends on forage stocks and/or market prices	12
System varied in response to the market price situation	11
Farmer was changing his beef system	7
May sell as stores instead of fat	7
Numbers and/or types purchased is varied with the price	. C
of store cattle/calves	7
Transitional system while establishing on a new farm	4
Farmer was discontinuing beef production altogether	4
May sell dairy calves instead of rearing, if calf prices are good	3
May rear or sell for breeding	2
Numbers depend on number of bull calves from dairy herd	2
Beef is a sideline (dabbles in it)	2
Transitional system while going brucellosis free	1
Total	62

(on 56 farms)

SECTION IV: CIASSIFICATION BASED ON BEEF CATTLE INTAKE

Table 6

Sample distribution by main type of intake in 1976

Type of	Intake	Number of farms
Over	50% as calves 3 months old or less, of which 50% were:	
	Home bred single suckled	38
	Home bred dairy calves	41
	Home bred dairy and single suckled	2
	Purchased	71
		-
	Total	152
Over	50% as stores	
	Over 3 and up to 12 months	7
	Over 12 and up to 18 months	1
	Over 18 and up to 24 months	1
	Over 24 months	•
Mixe	d ages, no age groups and accounting for	
	50% of cattle intake	3
Nil inta	ake during 1976	2
	Total Sample	166

A number of farms did not confine their intake of beef cattle exclusively to one particular age group so a fairly broad classification based on the <u>main</u> type of intake was adopted. This is shown in Table 6 above. The number of farms which did confine their beef cattle intake to one are group is shown in Table 7 below.

Table 7

Number of farms having a single type of intake and "mixed" intake in 1976

	Number of farms
Type of Intake	
Wholly calves 3 months old or less:	
All home bred single suckled	13
All home bred dairy calves	33
Mixed home bred and purchased	83

Total	129
Wholly stores over 3 months and under 12 months	3
Mixed ages	32
Nil intake during 1976	2
- 78-	
Total Sample	166

SECTION V: CLASSIFICATION BASED ON DISPOSALS

Table 8

Sample distribution by main type of disposal in 1976

Type of Output	Number	of	Farms
Over 50% as stores of which 50% or more were:			
up to 12 months		23	
over 12 and up to 18 months		23	
over 18 and up to 24 months		10	
over 24 months		4	
mixed ages		1	
Total selling mainly store catt	:le	61	
50% or more as fat cattle of which 50% or more were:			
up to 18 months		36	
over 18 and up to 24 months		35	
over 24 months		27	
		-	
Total selling mainly fat cattle	ə	98	
		_	
Nil sales in 1976		7	
Total s	ample	166	

The ages at which cattle disposals took place varied widely on many farms. A broad classification based on the main age of disposal is shown in table 8 above.

The number of farms on which cattle disposals were restricted to particular ages is shown in table 9.

Table 9

Number of farms having a single type of disposal and "mixed" disposal in 1976

Type of Output	Number of	Farms
Wholly as stores:		
up to 12 months	10	
over 12 and up to 18 months	9	
over 18 and up to 24 months	1	
over 24 months	2	
mixed ages	10	
Total selling store cattle	e 32	
Wholly as fat cattle:	•	
up to 18 months	17	
over 18 and up to 24 months	12	
over 24 months	15	
mixed ages	20	
Total selling fat cattle	96	
Mixed store and fat cattle	63	
Nil sales in 1976	7	٠.
Total Sample	166	

SECTION VI: LEVELS OF CONCENTRATE FEEDING TO BEEF CATTLE

Notes on Tables 10 and 11

- 1. The number of farms may not add to the sub total or sample total because averages are shown for sub-groups of three or more farms only.
- The quantities of concentrates shown have been rounded to whole kilograms and may therefore not cross add to the total concentrate figures.
- 3. Quantities per head have been calculated from the total annual quantities fed on all farms in each group and the total average number of animals on the farms in that group i.e. all animals carry equal weight.

TABLE 10

Concentrate feed to beef cattle in twelve months Average per animal by Type of Intake Group

	Numb on	Cattle	3 months 8	under 12	months	Cattle 12 months & under 2 years				
Type of Intake	Number of Farms	Av. No. of animals	Cereals	Other concen- trates	Total concen- trates	Av. No. of animals	Cereals	Other concen- trates	Total concen- trates	
	7		Kg per	nead			Kg per	head	1971 - H. J.	
I 50% or more as calves 3 months old or less of which 50% or more were:						• . • . • .				
H.B. single suckle	38	1547	158	73	231	1259	384	110	494	
H.B. Lairy	45	982	307	126	433	863	413	86	499	
Purchased	73	3582	417	1 52	569	3110	497	110	608	
Total mainly calf rearers	158	6295	326	129	455	5400	437	104	541	
II 50% or more as stores:									•	
over 3 months & up to 12 months	7	266	312	61	373	708	1202	78	1280	
mixed ages	3	112	263	21	285	.163	256	51	307	
Total mainly store buyers	12	418	298	50	349	937	976	73	1049	
Total sample	172	6716	325	124	449	6353	516	99	615	

TABLE 11

Concentrate feed to beef cattle in twelve months Average per animal by Type of Disposal Groups

		Cattle	3 months 8	under 12	months	Cattle 12 months & under 2 years			
Type of Disposal	Number of Farms	Av. No. of animals	Cereals	Other concen- trates	Total concen- trates	Av. No. of animals	Cereals	Other concen- trates	Total concen- trates
			Kg per	nead			Kg per l	head	
I Over 50% as store cattle of which 50% or more were:		e e e							
up to 12 months old	24	1066	204	140	345	660	171	130	300
over 12 and up to 18 months	25	745	240	135	375	603	308	88	395
over 18 and up to 24 months	11	229	420	130	550	260	712	127	839
over 24 months	4	107	186	186	373	55	172	192	364
Total mainly store cattle producers	65	2161	237	140	377	1581	311	118	429
II 50% or more as fat cattle of which 50% or more were:									
up to 18 months old	36	1623	471	160	631	1446	1036	126	1162
over 18 and up to 24 months	36	2097	307	90	397	2226	366	71	437
over 24 months	27	688	333	105	438	1040	422	91	513
Total mainly fat cattle producers	99	4408	371	118	489	4712	584	92	676
Unclassified (nil sales in year)	8	147	207	77	284	59	548	151	699
Total sample	172	6716	325	124	449	6353	516	99	615

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