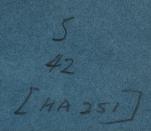


BOARD OF TRADE



# Report on the Census of Production 1963

41 Agricultural machinery (except tractors)

LONDON: HER MAJESTY'S STATIONERY OFFICE Price 3s. 6d. net

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# Report on the Census of Production 1963

41 Agricultural machinery (except tractors)

Presented by the Board of Trade to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo. 6 Cha. 39 Sec. 7)

LONDON: HER MAJESTY'S STATIONERY OFFICE 1968

These notes give the main information needed for interpreting the figures in the industry reports. (More detailed information about the Census is given in a separate booklet - 'Introductory Notes': Part 1 of the Report on the Census of Production for 1963.)

#### GENERAL INFORMATION

#### Changes in the 1963 census

There were few changes resulting from amendments to the Standard Industrial Classification and only minor changes in the scope of certain industry reports compared with 1958. Any such changes are explained in the introductions to the industry reports concerned or by footnotes to the tables.

#### Industrial Classification

Establishments were classified to industries on the basis of major activity in conformity with the second edition of the Standard Industrial Classification (Consolidated Edition 1963, incorporating Amendment 1). Each industry was basically defined in terms of its principal products, these being of a similar nature or commonly associated in production. Normally, an establishment was classified to an industry if its sales of the principal products of that industry accounted for a greater proportion of its total sales than did its sales of the principal products of any other industry. However, where the application of this rule would have resulted in a change of classification between 1958 and 1963, the establishment was reclassified only if the sales of principal products of the newly predominant industry was more than one third greater than the sales of principal products of the previously predominant industry. This modification of the general rule was introduced for 1958 to avoid discontinuities which would result from marginal changes in sales between successive censuses. The principle of classification by major

output was also normally followed in compiling the analysis by sub-divisions of an industry. In certain industries, classification was dealt with in a different way. Details of any non-standard treatment are given in the introductions to the relevant industry reports.

#### TERMS USED IN THE CENSUS REPORT

#### Average number employed

Firms were required to state the number of persons on the payroll (i.e. whose National Insurance cards were held by them) on the average during the year of return, whether fulltime or part-time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) operatives (see below). Averages could be calculated from figures relating to the last week of each calendar month; figures shown in respect of the average number employed relate to the sum of these averages. Firms were also required to state the number of working proprietors (see below) where appropriate and these are included in total employment figures. Outworkers are excluded.

The figures include persons engaged in merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

#### Working Proprietors

These include all persons regarded as 'self-employed' for National Insurance purposes, and members of their families who worked in the business without receiving a fixed wage or salary; but persons who worked less than half the normal number of working hours are excluded. For Great Britain, directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading for 1963, but are excluded for 1958. For Northern Ireland, directors of limited companies, other than those paid by fee only, are included for both years. (Directors paid by fee only are not included in any of the employment figures for either year.)

#### Employees

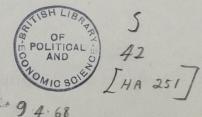
- (i) Administrative, technical and clerical employees include managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including works office) employees. For Great Britain, but not for Northern Ireland, they include also managing and other directors in receipt of a definite wage, salary or commission.
- (ii) Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work, stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting, etc. are also included, but outworkers (i.e. persons employed by the firm who worked in their own homes, etc. on materials supplied by the firm) are excluded. Information about the numbers of outworkers employed was collected only for the gloves industry.

### Capital Expenditure

#### (i) New building work.

This represents the cost incurred during the year of new building and other new constructional work (including office buildings, canteens and the like used in connection with the business covered by the return but not dwelling houses for employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or on the extension or reconstruction of old buildings, the value of work of a capital nature carried out by firms' own staff, and the cost of any newly constructed buildings purchased. The figures shown include any legal charges, stamp duties, agents' commissions. etc.

Notes - continued on pages iii and iv



## 41

## Agricultural machinery (except tractors)

This Report on the Agricultural Machinery (except Tractors) Industry relates to establishments engaged wholly or mainly in manufacturing agricultural machinery and implements (including self-propelled agricultural machinery) such as ploughs, harrows, reapers, binders, threshers, elevators, etc. Milking machines are included, but dairy machinery and appliances, tractors and hand tools such as spades, are excluded.

This industry corresponds to minimum list heading 331 in the Standard Industrial Classification (Consolidated edition, 1963).

#### TREATMENT OF PARTS

In reports for this and other mechanical engineering industries, a distinction is made between parts sold in association with the sale of complete machines, and other parts sold. The only parts shown in Table 5 are those included on returns (whether classified to this or to other industries) which also showed sales of agricultural machinery; where the return was classified to another industry, these parts are also shown, together with the complete machines, in Table 6.

Parts of agricultural machinery included in returns which showed no sales of the complete machines are treated as principal products of the General Mechanical Engineering Industry (Part 52) whether made by general engineering firms or by specialist manufacturers of other types of machinery.

Sales of all parts of agricultural machinery (i.e. whether or not sold in association with the sale of the complete machines) are brought together in Table 14 in this report.

#### METHOD OF CLASSIFICATION

In classifying returns to this industry sales of machinery parts and work done (other than structural and installation work), including repair work, were not taken into account unless they exceeded 80 per cent. of the total output of the return (in which case the return was classified to General Mechanical Engineering (Part 52)). Exceptionally, however, machinery parts were taken into account where the return would otherwise have been classified outside the mechanical engineering group of industries. The standard classification procedure was further modified where a return would have been classified to one of the mechanical engineering industries relating to a specific class of machinery (viz., Parts 41 to 50 inclusive), but the sales of the principal products of the industry concerned accounted for less than 20 per cent. of the total output: in such cases the return was classified to the residual sub-division of the Miscellaneous (Non-electrical) Machinery Industry (Part 49).

For 1963, but not for earlier censuses, the amount charged for erecting and installing machinery and plant (other than air conditioning, heating and ventilating plant) was treated as part of the selling value of these items in determining the industrial classification of returns.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (ii), (iii) and (iv).

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TABLE 1 Industry summary: United Kingdom Estimates for all firms, 1958 and 1963 (a)

		Unit	1958	1963
Number of enterprises	Arcenge .	No.	300	306
Number of establishments			318	323
Gross output		\$,000	55,146	72,266
Net output			22,774	32,388
Net output per head		2	1,145	1,571
(a) 308 (03 ) Adv. 04   000°	goods produced and work done	€,000	51,565	61,014 (b
Sales and work done	merchanted goods and canteen takings		3,156	12,679
87 2004258 - Ens	materials for processing and packaging, and fuel		]	29,460
Purchases	goods for merchanting and		29,409	8,159
	Canteen purchases		1,041	976
Payments to other organisations	for work done on materials given out		1,179	907
1 GB marks a decrease Date in the contract of	{ for transport	and a second	1,110	301
Stocks and work in progress	( ab duning un	110	- 318	- 1,803
Total stocks and work in progress	change during year		17,167	22,465
8,195	(at end of year	2.0 3	+ 453	- 1,461
Goods on hand for sale	change during year	30 1	5,890	9,284
	at end of year	a 3	- 28	34
Work in progress	change during year		3,676	4,012
	at end of year	nes al	- 743	- 377
Materials, stores and fuel	change during year	NA CONTRACTOR	7,601	9, 169
	at end of year	mel.		
280, 670, 21 212, 212, 212	total, including working proprietors	Th.	19.9	20.6
Average number employed	operatives			
	(other employees (c)	10	5.4	5.5
Wages and salaries	of operatives	\$,000	8,047	10,367
828 25 45 YES 54W	of other employees (c)	ro h bu	3,434	4,531
Employers' contributions to Na pension schemes, etc. (d)	itional Insurance and private	am train of	and suce sale	1,016
Capital expenditure (e)		arrang of	and artistan	Party Street
Total moderate			180 331.000	1,763
New building work			280	526
Land and existing buildings	(f) 7,755 F.751 F.803 and Erickleto	38 }		- 84
Plant and machinery (f)		(A) (	601	1,145
Vehicles (f)			169	176

<sup>(</sup>a) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for about 12 per cent. of the total figures in which they were incorporated. (For 1958 the comparable figure was 10 per cent.) A summary of the detailed returns received is given in Table 2.

<sup>(</sup>b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).

<sup>(</sup>c) Administrative, technical and clerical employees.

<sup>(</sup>d) Including pensions and gratuities paid other than from pension funds.

<sup>(</sup>e) Excluding expenditure for establishments not yet in production.

<sup>(</sup>f) Acquisitions less disposals.

PAR TALL T		Unit	1958	1963
Number of enterprises		No.	76	77
Number of establishments		-	88	88
Gross output		2'000	49,574	63,790
Net output		ry. •983	20,473	28,589
Net output per head		3	1,142	1,571
*	goods produced and work done	£'000	46,354	53,858(Ъ)
Sales and work done	merchanted goods and canteen takings		2,837	11,192
Index of specialisation (c)	representation of the control of the entire the control of the con	Per cent.	82	78
Open of the party of	materials for processing and packaging, and fuel	£,000	36 437	26,004
Purchases	goods for merchanting and canteen purchases	us 13 cms	26,437	7,202
Payments to other	for work done on materials given out	- 019 ·	936	861
organisations	for transport		1,060	801
Stocks and work in progress			107	THE WASCIE
200.00	change during year		+ 408	- 1,290
Goods on hand for sale	at end of year		5,295	8,196
	change during year	} •	_ 25	30
Work in progress	at end of year		3,305	3,541
	change during year	7 .	- 668	- 332
Materials, stores and fuel	at end of year	Alates.	6,833	8,093
	( total, including working proprietors	No.	17,924	18,199
Average number employed	operatives		13,059	13,220
	other employees (d)		4,864	4,932
	of operatives	2'000	7,256	9,289
Wages and salaries	of other employees (d)		3,097	4,060
	( operatives	3	556	703
Wages and salaries per head	other employees (d)		637	823
Employers' contributions to Na	SANTARO DES SOCIATIONES AND	£,000	sorributions des. asc. (d	551
	rivate pension schemes, etc. (f)		(a) asusibo	360
Capital expenditure (g)				LanoT
New building work			251	464
	acquisitions	T) want	Ilud guireis	has 5 12
Land and existing buildings	disposals		t) granidosa	
	( acquisitions		585	1,032
Plant and machinery	disposals		45	21
		as vi•1 s	238	248
Vehicles	disposals	ent to	86	92
	( araposara vice in Armeni v 1 2000 ve	WALL STREET	80	14-2

For notes to this table - see page 41/6

TABLE 3 Analysis of larger firms by size of enterprise within the industry, 1963

(i) Output, employment, capital expenditure and stocks

Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Enter- prises	Estab- lish- ments	Average number employed (a)	Gross output	Net output	Net output per head	Capital expendi- ture (b)	Total value of stocks and work in progress at end of year
	Number	Number	Number	£,000	€,000	£	€,000	٤٬000
25-49	19	19	710	1,415	704	991	39	361
50-99	25	28	1,801	6,081	2,546	1,413	203	933
100-199	15	19	2,142	7,808	3,079	1,437	163	1,688
200-299	3	3	656	1,866	937	1,428	84	700
300-399	7	9	2,396	8,387	3,560	1,486	120	2,653
400 and over	8	10	10,494	38,234	17,765	1,693	947	13,495
Total	77	88	18,199	63,790	28,589	1,571	1,556	19,830

(ii) Employees, wages and salaries, and employers' contributions Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Empl	oyees	Wages and salaries		Emplo contrib	yers' outions	Wages and salarie per head	
	Oper- atives			Others (c)	National Insurance (d)	Private pension schemes, etc. (e)	Oper- atives	Others (c)
Bings ogener	Number	Number	£'000	£'000	£,000	£'000	2	2
25-49	544	156	298	106	19	2	548	678
50-99	1,391	384	844	303	48	15	607	790
100-199	1,511	625	962	501	67	22	637	802
200-299	548	108	360	81	15	7	656	752
300-399	1,488	907	1,065	766	68	53	716	845
400 and over	7,738	2,752	5,761	2,302	334	261	744	836
Total	13,220	4,932	9,289	4,060	551	360	703	823

- (a) Including working proprietors.
- (b) Acquisitions less disposals.
- (c) Administrative, technical and clerical employees.
- (d) Including both flat rate and graduated contributions.
- (e) Including pensions and gratuities paid other than from pension funds. These amounted in total to £87,000.

TABLE 4 Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom (a)

Ages	Males	Females	All employees
katoka anguning k	Per cent.	Per cent.	Per cent.
Under 18	7	2	9
18 and over	81	10	91
All ages	88	12	100

Source: Ministry of Labour

(a) The percentages relate to the numbers employed (excluding working proprietors) at mid-June, 1963.

#### Footnotes to Table 2.

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry. It includes an estimate for small firms not making satisfactory returns which account for 3 per cent. of the employment shown for 1963 and 6 per cent. for 1958.

	1958	1963
Number of firms	223	229
Average number employed:		
Working proprietors	1,814 {	309
Other persons employed	1,014	1,590

- (b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).
- (c) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (d) Administrative, technical and clerical employees.
- (e) Including both flat rate and graduated contributions.
- (f) Including pensions and gratuities paid other than from pension funds.
- (g) Excluding expenditure for establishments not yet in production.

TABLE 5 Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

		19	58		1963				
regard regard 000.9	Quant	tity	Value	Quantity	Value	Enter- prises	Entrie		
	Numb	oer	£,000	Number	\$,000	Number	Number		
GRICULTURAL MACHINERY, other than tractors					in this law				
COMPLETE MACHINES				sept due	e rhongains	Dr. James V	restant		
Tractor ploughs (a)	36,	372	2,319 79	} 27,857	2,251	16	16		
Cultivators, harrows other than disc harrows, and tractor hoes (b)	28,	779	2,881	42,268	3,847	35	35		
Disc harrows	4,:	231	465	5,198	589	8	8		
Seed drills, planters, fertilizer distributors and broadcasters (c)	8,	799	905	27,465	2,467	40	41		
Spraying machines for insecticides and herbicides	{ 4,	808	328 220	}	532	16	16		
Hay and grass mowers, including mowing attachments for tractors, other than rotary blade type	{ 17,:	365	1,389 405	}	984	14	14		
Pick-up balers (d)		267	70	gar sili.	6,480	10	10		
Combine harvesters (e)	6,	254	7,760	3,895	7,374	6	6		
Potato and sugar beet harvesters, diggers (all types), lifters,	ak a xodos	4792 823 (6	one agains	The sermants	e control a	3961.73			
spinners and ploughs (f)	2,	677	364	27102	1,141	18	18		
Forage harvesters		••	alt of	1,950	230	7	7		
General purpose (agricultural) elevators, grain augers and conveyors (g)	{ 3,	074	408 190	12,230	1,363	} 29	29		
Grain and grass driers	{ 2,	570	1,415 70	3,885	2,789 444	} 26	26		
Sheep shearers and clipping machines	16,	998	186	20,839	294				
Milking machines	8,	254	1,052		1,167	5	5		
Other agricultural machinery (excluding dairy machinery)			14,904		8,863	79	82		
Unclassified agricultural machinery (h)			1,540		1,401	9	9		
PARTS of agricultural machinery sold in association with the sale of complete machines characteristic of this industry (i)			11,228		8,281	111	238		
THER PRINCIPAL PRODUCTS			75		17				
ASTE PRODUCTS				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		100000	1		
Scrap metals	То	ns	20 x 1/2	Tons					
Iron and steel	{ 5,	855	44 29	} 14,360	165	49	52		
Brass	{	23	1 2	} 36	5	10	10		
Copper			9	22	4				
Other scrap metals	13		11		13	11	13		
Other waste products		•••	11	•••	13	11	1		

Continued on next page

TABLE 5 (continued)

	19	058	1963			
	Quantity	Value	Quantity	Value	Enter- prises	Entries
and the state of t	. 15 1 40 10	£'000		£'000	Number	Number
VORK DONE						
Agricultural machinery and plant erected and installed		(	bergi most so	964	13	13
Research and development work done for customers (including Government Departments)		45(j)		299	DOME ST	1,7110.)
Total		48,395	h sadt ted	51,888	27	
Sales in other industries (see Table 6)	283	10,407	regilling	9,878	narrow attant	Date
Principal products of this industry sold by establishments in the industry	893	37,988	reblaisceum	42,010	77	82(k)

- (a) Described as mechanical draft ploughs in 1958.
- (b) Described as cultivators and grubbers in 1958.
- (c) Described as planters, drills and seeders in 1958.
- (d) Described as reapers and binders in 1958.
- (e) Described as combine harvester-threshers and threshers in 1958.
- (f) Described as potato and sugar beet lifters in 1958.
- (g) Described as hay and corn elevators in 1958.
- (h) This figure includes some parts in association with the sale of complete machines.
- (i) For details of these parts see Table 14.
- (j) So far as recorded separately.
- (k) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments in Table 2 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963

1038 1963	19	58	1963				
note: Whitehold boles   600 c	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)	
Agricultural machinery, other than tractors	Number	£,000	Number	£,000	Number	Ander ber Buc	
Tractor ploughs, and cultivators, harrows other than disc harrows, and tractor hoes		ka " 679 Tegad AZ	e greation	igmis die	o Bano geo or walled		
Complete	7,894	356 101}	Jacobal	haltmele	rios agus		
Parts		52	}	478	26	44,49,62,74	
Seed drills, planters, fertilizer distributors and broadcasters		liga yandi na	id madi yo		Marie Dem		
Complete	-	-	5,271	234	7	44,46,49	
Parts	15-	-		7	6	(b)	
Spraying machines for insecticides and herbicides		1900 S			33 33 + 10		
Complete	}	285		182	10	44,47,64,74	
Parts	<b></b>	2007		53	6	44,47	
Hay and grass mowers							
Complete and parts	-	-	2.5	8	7	(b)	
Potato, sugar beet harvesters, diggers (all types), lifters, spinners and ploughs			S.A.		ok yalda ko no sa	ticina englis	
Complete	5 mm = 6	-	a Fancisch yn	39	6	49	
Parts	-	-	0.) 600.00	10	6	(b)	
General purpose (agricultural) elevators, grain augers and conveyors	gra jedben 18. jete jin	n subject	ed galund to betted		ork gotte	to asias of	
Complete and parts		234		685	18	44,46,49,50	
Grain and grass driers							
Complete	555	115 61	980	5.18 1.16	} 13	39,44,49,50	
Parts	SERVICE TO	48	ces conde	16	7	(b)	
Combined harvester-threshers	todzo ot	Devabus:	anivros n	A Degraph	someone.	gratio Landa (2)	
Complete and parts		563	h I				
Other agricultural machinery							
Complete	e all .loca	5,138		6,277(c)	46	44,46,49,62	
Parts	CHEST IN	581		576 (d)	34	44,46,49,50	
Unclassified			Beet bac		indasi'		
Complete and parts		2,873	)				
Agricultural machinery and plant erected and installed	A CONTROLL	minz or	Allered Area	680	9	47,49,50,62	
Total		10,407		9,878			

<sup>(</sup>a) The references given are to the list of industries at the back of this report.

<sup>(</sup>b) No significant production was recorded in other industries.

<sup>(</sup>c) Complete machines.

<sup>(</sup>d) Parts.

TABLE 7 Sales of other than principal products by larger firms in the industry, 1958 and 1963

od and metal intractors' plant and quarrying machinery complete and rts  tal-working machine tools complete and parts ther miscellaneous non-electrical industrial machinery Complete and parts dustrial plant and steelwork other than boilers and ilerhouse plant eeled and half-track tractors  Complete  Parts dustrial and works trucks and tractors, motor bodies, ailers (motor drawn) and caravans ther metal manufactures ther products meral mechanical engineering Repair and jobbing work Other work done on commission Other miscellaneous mechanical engineering rvices rendered to other organisations (a) tal value of goods sold without having been subjected	19	58	1963		
	Quantity	Value	Quantity	Value	
(a) according	** PARK	٤٬000		£'000	
Iron castings in the rough or machined, and patterns of wood and metal	alon Tues	53	naktiine. In	110	
Contractors' plant and quarrying machinery complete and parts		1,481	ar negunia	3,199	
Metal-working machine tools complete and parts	h	(	*********	289	
Other miscellaneous non-electrical industrial machinery	}	2,117	1.888		
Complete and parts				1,794	
Industrial plant and steelwork other than boilers and boilerhouse plant	4	548	resiq	555	
Wheeled and half-track tractors	Number	30,100,000,000	2 10 2 10 1		
Complete	2,116	1,090 }		448	
Parts		19	Seethlee	440	
Industrial and works trucks and tractors, motor bodies, trailers (motor drawn) and caravans	1 4	631	i bas bend ••sJ	1,370	
Other metal manufactures	h			208	
Other products	]	1,053 {	POR 22-15	2,235	
General mechanical engineering		gi	ing bas as		
Repair and jobbing work	14 44 P 01.6	353	Fisher Pague	265	
Other work done on commission		189	sould pus	920	
Other miscellaneous mechanical engineering	of the Real Pro-	408	this sales	440	
Services rendered to other organisations (a)				16	
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	1	2,783	eless	11,134	
Canteen takings		54	es g bas so	57	
Total		11,203(b)	th santa h	23,039	

<sup>(</sup>a) Amounts charged for hiring out plant, machinery or other goods for providing transport or for technical or other services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger firms, including production by establishments classified to other industries, 1958 and 1963

This table is not applicable to this industry.

TABLE 9 Purchases of selected principal products of the industry by larger firms, 1963

This table is not applicable to this industry.

TABLE 10 Purchases by larger firms in the industry, 1954 and 1963 Firms employing 25 or more persons: United Kingdom

	19	54	19	63
000,8 000,3	Quantity	Cost	Quantity	Cost
energing deteriors	Th.tons	£,000	Th. tons	€,000
terials for processing	in him a respon	l galbuluni	Abbres i	
Iron	are I alazarea	walvering f	as males o	
Pig iron, including refined pig iron and other irons for re-melting (a)	(apl)as	761	9.0	206
Castings	13.9	1,047	11.1	1,009
Steel	at mathematical	tempt lie	al redaka s	
Ingots, blooms, billets, slabs, and sheet and timplate bars			2.9	144
Bars and rods (including wire rods), angles, shapes	59.8	2,264	267523	
and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares (b)	794 1747 100 1	ol aned, the	48.4	2.718
Plates, 3mm. thick and over	6		21.3	1,115
Hoop and strip (including tape of all thicknesses)	9.8	410	brass	44
Sheets under 3mm. thick (including electrical sheets	6.5	305	of the at	1,177
Tinplate, terneplate and blackplate		(c)	broket til	125
	0.2	35	7	
Forgings (except drop forgings)	1	44	8.0	137
Castings	2.2	319	2.9	555
Tyres, wheels and axles (rail type)		105	1 109	166
Drop forgings (d)	3.8	527	1.9	336
Iron and steel not elsewhere specified except finished parts, wire and scrap	000283 N. 165	isa aprizae	135192-89	
Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc.)	2.8	194 79	} 4.1	345
Other (e)	0.5	16	2000	54
Precision chain (e.g. transmission and timing)		203		379
Springs, laminated and other types		167	Sanda.	105
Steel wire and wire manufactures (excluding insulated wires and cables) (f)			sayfar term	
Wire (single wire)	h	(	W	8
Wire manufactures including wire cables and ropes an stranded wire of two or more ply	d  }	172 {		27
Iron and steel scrap	OT SEED BOOK	44	2010 31.11	22
Light metals and non-ferrous metals in all forms excep finished parts, wire and scrap	t		ESS BESTONES	
Aluminium and aluminium alloys	1 1 1 1 2 2 PH	452 {	0.3	104 47
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys)	0.7	242	ins ben ted	131
Copper (excluding blister) (g)	J	####### D	a rate got	
Glass in all forms, including finished parts		(h)	188018	55
Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc	ar addamsonou	(h)	CHARLES OF STREET	41

Continued on next page

<sup>(</sup>b) Excluding amounts charged for services rendered to other organisations.

TABLE 10 (continued)

	19	54	1963	
	Quantity	Cost	Quantity	Cost
		£'000		£'000
Materials for processing (continued)				
Paint and varnish (including lacquers and stains)		420	1880019.70	394
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)		(h)	Autoni so	38
Refractory materials		6	0.00001.000	17
Rubber, including hard rubber, balata, gutta-percha and synthetic rubber in all forms, including finished parts		1,011		1,112
Timber	oria Sou in	de cambile	, wacold s	
Softwood, sawn or planed, but not further prepared or manufactured	Tabas a	284√	tret not to the total	114
Hardwood, sawn or planed, but not further prepared or manufactured	]	204	cridos, gl. (100 čabr	130
Dl	Th.sq.ft.		Th.sq.ft.	
Plywood, including blockboard, laminboard and battenboard	136	16	377	28
Asbestos in all forms, including finished parts	ale said	7		4
Other thermal insulating materials	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	14		1
Insulated wires, cables, strips and strands (i)		17		21
Bolts, rivets, nuts and washers, screws, nails, tacks, etc.		588		670
Machinery bought for installation	(mort)	(h)	na alpina	265
Purchased components for incorporation in firms' own products			c) egulgao'	
Ball and roller bearings and parts thereof	a 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	281	res 18512 1 ca box saix	793
Electric motors	rilguore to		na andir ra	
Of less than 1 h.p.	]	234 €	COLOR J. L.	92
Of 1 h.p. and over	]	}	1.5)	425
	Number		Number	
Internal combustion engines	49,800	2,139	53,354	1,489
Industrial valves	2012501.23	5	•	449
Gear and gear wheels of metal		150		223
Pumps	ofoso stin	198	a tu i pa i unun	143
Measuring instruments and gauges and parts	Tig i		in order less	
Industrial process measuring and control instruments and equipment	}	9 {	i steel do:	113
Other	]	L	10 gg/2100 f	24
Plastic goods moulded and fabricated		13	a has this	88
Other components not elsewhere specified except those of rubber and asbestos (j)	cheronal assemble and the second	7,073	sedio bos	6,880
	Th.gal.		Th.gal.	
Lubricating oils and greases (including cutting oils and emulsions)	97.6	17 35	196	55 15
Replacement parts for firm's own machinery, plant and vehicles, and accessories and consumable tools bought	Convols et	1,032	) election	508
as replacement	NAME OF TAXABLE PARTY.	4,859		1,584
All other materials for processing		1,000		1,00

TABLE 10 (continued)

		1954		1963	
		Quantity	Cost	Quantity	Cost
	图数21 11481 1 A	particular at	£,000		£'000
Packaging materials		PRINCIPAL TO PRINC		erologia zak	
Paper and board		e cost		4.333	
Boxes, cartons, packing car canisters (with or without cardboard and fibreboard			477476	merinana rotos bis	83
Wrapping paper (including yand any laminates incorpormoulded pulp units, labels materials of paper, cardbomultiwall sacks)	ating paper but not metal), and other packaging		162 {	operating	36
Timber Containers wholly or mainl plywood boxes and drums, b	y of wood, including askets and wickerwork crates			assimuli.	189
Timber (sawn or planed) fo cases, etc.	r manufacture into packing		447		6:
Plywood for manufacture in	to packing cases		(		
All other packaging material	S 242 1 242 8	2108	48	1	1
Fuel and electricity (k)		Th. tons		Th. tons	
Coal		18.3	64	11.0	6
Coke (including screenings)	and manufactured fuel	16.5	108	6.8	7
	(a) including seen	Th.gal.	teaching said	Th.gal.	
Derv fuel and motor spirit f	or use in road vehicles	557	109 11	475	8
Other liquid fuels (includin etc., and liquefied petroleu		706	34 39	} 2,601	11
Gas	rvices, etc. by larger to personer United Kingdom	Th. therms 1,841	93 56	Th. therms 2,472	17
Electricity	agenose and	Th.kWh 28,909	172 23	Th.kWh 47,836	31 4
Total cost of materials and fuel			27,158	Barrisa bas	26,00
Goods purchased for merchantin				F33	7,13
Canteen purchases	žē.		•• •	inisev abov	6
Total cost of purch	10 mass	gipe lariqu	andro bes	, y zonadbao	33,20

- (a) Described in 1954 as 'Pig iron, except refined pig iron'.
- (b) 'Rolled pillars (not fabricated) including tube rounds and squares' not included in 1954.
- (c) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given and are included in 'All other materials for processing'.
- (d) Described in 1954 as 'Drop forgings of iron and steel'.
- (e) 1954 heading covered iron only.
- (f) Including 'Iron and steel' in 1954.
- (g) 'Blister' was not specifically excluded in 1954.
- (h) Not recorded separately.
- (i) 'Strips and strands' were not specifically excluded in 1954.
- (j) 'Iron and steel' excluded in 1954. The 1963 figures exclude 'rubber and asbestos'.
- (k) The total quantity of electricity generated in firms' own establishments in this industry was 407 Th.kWh in 1954; owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given for 1963.

Transport costs and employment of larger firms, 1963

	Unit	1963
Average number employed mainly on transport	No.	200
Transport costs		
Wages and salaries	€,000	151
Derv fuel and motor spirit		108
Payments to other organisations for transport	asiq dolla b mamaga sud	801
Costs of operating road goods vehicles	packaging reportd (ess	dil bos
Insurance		18
Vehicle licences	enibelout	18
Depreciation	and orașiea	94
Payments to other organisations for repairs and maintenance		53
Total	н	1,242

Payments for certain services, etc. by larger TABLE 12 firms, 1963 (a)

Firms employing 25 or more persons: United Kingdom

16 018,78 0 019,82 }	Amounts payable
Repairs and maintenance to	€,000
Buildings	99
Road goods vehicles	53
Plant, machinery, and other capital equipment	81
Insurance, licensing and depreciation of road goods vehicles (b)	129
Rates, excluding water rates	333
Hire of plant and machinery	26
Postage, telephone, telegrams and cables	276
Total	998

<sup>(</sup>a) No deduction is made for these payments to arrive at the figures of net output given in this report.

(b) For details see Table 11.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger firms, 1963 Firms employing 25 or more persons: United Kingdom

Year ended	Percentage of total number employed	Year ended	Percentage of total number employed
1963	Per cent.	1963 (contd.)	Per cent.
April (a)	1.1	November	0.0
May	0.4	December	35.3
June	0.7	right arenal	ASILES been ware
July	2.3	1964	and the state of t
August	0.0	January	17.8
September	8.1	February	1.6
October	21.9	March	10.9
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Total	100

<sup>(</sup>a) Including returns made for twelve-month periods ended 1st to 5th April, 1964.

TABLE 14 Sales of all parts of agricultural machinery (except tractors) by larger firms, including sales by establishments classified to other industries, 1958 and 1963

(i) Parts sold in association with the sale of complete machines characteristic of	1958		1963	
this industry (a) (ii) Other parts sold (b)	(i)	(ii)	(i)	(ii)
(wasses)	£,000	€,000	£'000	£,000
For tractor ploughs	1,150	257	1,119	1,182
For cultivators, harrows other than disc harrows, and tractor hoes	601	325	1,342	197
For disc harrows	158	1,071	219	561
For seed drills, planters, fertilizer distributors and broadcasters	394	93 {	291	195
For spraying machines for insecticides and herbicides	114	) (	176	)
For hay and grass mowers, including mowing attachments for tractors, other than rotary blade type	683	157	172	227
For pick-up balers	63	31	331	246
For combine harvesters	506	340	608	125
For grain and grass driers	299 {	46	} 424 {	57
For sheep shearers and clipping machines	1	onconscion -	J (	-
For milking machines	665	46	868	(c)
For potato and sugar beet harvesters, diggers (all types), lifters, spinners and ploughs	115		125	267
For forage harvesters	1) (		68	72
For general purpose (agricultural) elevators, grain augers and conveyors	3,294	513	63	56
For other agricultural machinery (excluding dairy machinery)		] [	2,476	1,495
For unclassified agricultural machinery	3,185	1,525	-	1,090
Total	11,228	4,404	8,281	5,770

- (a) Principal products of this industry.
- (b) Principal products of General Mechanical Engineering.
- (c) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given and are included with 'Other agricultural machinery (excluding dairy machinery)'.

### Capital Expenditure (continued)

#### (ii) Land and existing buildings.

The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.

#### (iii) Plant, machinery and vehicles.

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc. which firms produced for their own use in connection with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. No deduction is made for depreciation, amortisation or obsolescence. The proceeds of items disposed of during the year exclude amounts written off for items scrapped.

Capital expenditure during the year in respect of manufacturing establishments where production had not started before the end of the year is excluded in this report for both 1958 and 1963.

#### Characteristic Products

The characteristic products of a sub-division are those in terms of which the sub-division is defined. They are products commonly associated in production and are usually similar in nature or manner of production. In most cases the characteristic products of each sub-division are indicated in Table 5 of the industry reports. For those industries for which an analysis by sub-divisions has been made, Table 2 shows the total sales of such characteristic products for each sub-division. The totals include, besides the products which define the sub-division, other items of output assumed to be closely related to them, e.g. waste products and work done.

#### Enterprise

The term enterprise is used in this report to mean one or more firms under common ownership or control. An enterprise normally consists either of a single firm, or of a parent company together with its subsidiary companies.

#### Entries

The number of entries shown in Tables 5, 6 and 8 against a particular output or production heading is the number of returns on which figures were recorded for that item.

#### Establishment

The census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but firms were asked to exclude from all sections of their returns particulars relating to any department not engaged in production for which they kept a separate set of accounts. Where separate accounts were not kept, they were asked to include merchanting or factoring, canteens operated by them and other

ancillary activities such as bottling, packing and the manufacture of containers for packing their own products, whether or not these activities are carried on at the same address as the works. Building and engineering maintenance departments and selling and transport departments were treated similarly.

#### Gross Outpu

The gross output of an industry is the aggregate value of goods made and other work done during the year by the establishments classified to the industry. It is derived by subtracting from the value of sales and work done, the value of stocks of goods on hand for sale and work in progress at the beginning of the year and adding the value at the end of the year.

#### Larger Firms

These are firms in which twenty-five or more persons were employed on the average during the year.

#### Net Output

The net output of an industry represents the value added to materials by the process of production. It includes the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, insurance, pensions, hire of plant and machinery, payments for repairs and maintenance, costs of operating road vehicles, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output. Net output has been obtained by deducting from the gross output the cost of purchases adjusted for stock changes, payments for work given out to other firms, and payments for transport.

Normally any customs or excise duty on materials purchased is included in the cost of materials. Similarly, finished goods sold have been valued as they were sold, duty paid or duty free. The amounts of duty, subsidies, allowances and levies receivable or payable, where of substantial importance in the industry, were required to be stated separately, and these items were taken into account when calculating net output.

#### Net output per person employed

The figures for net output per person employed are derived by dividing the net output by the average number of persons employed (full-time and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

#### Principal Products

The principal products of an industry are those in terms of which the industry is defined. They are products commonly associated in production, and are usually similar in nature or manner of production.

#### Production

This means the total quantity of a product made during the year, whether sold in the year, added to stock, transferred to another department of the same firm, or used in the manufacture of other products within the business covered by the return. It includes goods produced from materials supplied by other firms.

#### Purchases

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packaging materials, including the full cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to firms' own buildings, plant and vehicles when carried out by their own workpeople included in the return; of consumable tools; and of parts for machinery purchased during the year as replacements. Water charges are also included. In general purchases of goods for merchanting or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including firms' own separate transport organisations, for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at their c.i.f. cost plus any duty payable if the cost of transport from the docks was not included in the invoiced price, but at their full delivered cost if invoiced 'carriage paid home'. Materials and fuel transferred from another department of the firm not covered by the same return are included at the estimated selling value recorded by the other department.

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other firms from materials given out to them (sometimes described as goods made on commission) and waste products. Any machinery or other capital items produced for use in the business covered by the return are included, the value being that adopted in the firm's capital asset account. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included as in 1958.

The value shown for sales is the net selling value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value. For work done on commission or for the trade the value shown is the net amount charged.

Where goods produced in one department were transferred to another department of the same firm not covered by the return, these transfers were treated as sales by the producing department and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations for which separate accounts were kept were valued on the same basis. Estimations of a similar kind were also sometimes necessary in valuing transfers between different firms belonging to the same enterprise. To the extent that the sales of finished products of one establishment may constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

#### Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any technical or other

services rendered to other organisations. It includes amounts credited for similar services rendered to other departments of the same firm not covered by the return.

These are firms in which fewer than twenty-five persons were employed on the average during the

#### Stocks and Work in Progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the beginning and end of the year of return, including any stocks of goods held for merchanting or factoring. The values include duty in the case of dutiable goods held out of bond. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments

#### Transport Payments

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payments to other firms, and to any separate transport organisation of the same firm, not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, i.e. railways, road haulage, canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

#### Wages and Salaries

These are the amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded; in Northern Ireland this exclusion extends also to payments to directors of limited companies. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. and employers' contributions to National Insurance and pension schemes is excluded.

#### Work given out

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. They do not include payments to individual outworkers or payments for business and other services.

#### Symbols used

The following symbols are used throughout the

- Not available
- Nil or negligible (less than half the final digit shown)
- Figures cannot be shown owing to the risk of disclosing information about individual enterprises.

#### Rounding of Figures

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and

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