## 41 Printing ink

This Report on the Printing Ink Industry relates to establishments engaged wholly or mainly in manufacturing printing ink and printers' rollers.

This industry corresponds to minimum list heading 279(5) in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 census.

The industry was included in the Paint and Printing Ink Industry (Part 31) in the Reports on the last detailed Census of Production for 1963. The manufacture of paint shown as a sub-division of the industry in the 1963 Report is now the subject of a separate Report for 1968.

Throughout this Report the figures given for 1963 have been reclassified as far as possible, according to the Standard Industrial Classification (Revised 1968) so that data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms which provided limited information only has been arbitrary.

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

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- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Acquisitions <u>less</u> disposals.

Industry summary, 1963 and 1968 United Kingdom (a) (b)

						Unit	All establishments		
					erol j	Unit  -	1963	1968	
Number of enterprises	sad rac	l trateo	- Funtan		din bia	No.	64	48	
lumber of establishment	s					11	97	83	
ross output						£.000	21,713	30,496	
let output						11	10,856	15,609	
Net output per head						£	2,147	2,965	
	ſ	goods produ	ced and wor	k done (c)		£.000	20,375	27,887	
ales and work done	{	merchanted	goods and c	anteen tak	ings		1,319	2,277	
	081,5	materials f packaging a	or use in p nd fuel	roduction	and	н	9,462	13,039	
Purchases	TREE, C.	goods for m purchases	erchanting	and cantee	n	п	1,167	1,737	
	1 2.808	for work do	ne on mater	ials given	out	ıı	19	19	
Payments to other		for transpo	rt			н		149	
organi sations	1	by road		, ,			243	149	
	97602.8	by rail a postal se	and other me	eans exclud	ing	н		115	
Stocks and work in prog	ress								
Total stocks and work in		change duri	ng year			11	+ 52	+ 504	
progress	1	at end of y	ear			н	2,571	3,858	
		change duri	ing year			11	+ 5	+ 258	
Goods on hand for sal	le {	at end of	year			u	864	1,369	
	ſ	change dur	ing year			S 0 11 0	+ 15	+ 73	
Work in progress	{	at end of	year			11	172	341	
		change dur	ing year			11	+ 33	+ 173	
Materials, stores an	d fuel	at end of				3 (11)	1,534	2,148	
		total, inc	luding work	ing propri	etors	Th.	5.1	5.3	
Number employed on ave	rage	operatives				n	2.7	2.8	
during the year		other empl				tt	2.3	2.4	
		of operati	ves			£,000	2,459	3,556	
Wages and salaries			mployees (d	1)		n	2,644	3,750	
Capital expenditure (e	.)								
Total						n -	680	1,439	
New building work				- 883		" "	260	521	
Land and existing bu	ildings (	f)				и	2	37	
Plant and machinery		102.1				n	305	720	
Vehicles (f)						tf.	113	161	

- (a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 6 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for less than 1 per cent. For 1963 the comparable figures were 7 per cent. and less than 1 per cent. respectively.
- (b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

	1963	1968
Number of establishments	51	33
Average number employed:		
Working proprietors	48	20
Other persons employed	459	331

Footnotes continued on page 41/2.

TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Estab- lish- ments	Enter- prises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
200 (10 ) 1 20 (10 ) 1	Number	Number	Number	£'000	£,000	£
1-5	9	8	20			
6-10	9	9	69	altrone strategic	notions about	
11-24	15	13	262	ografija - obion	hoder thron	
25-49	21	17	737	4,428	2,344	3,180
50-99	11	11	698	3,836	2,020	2,894
100-199	11	8	1,304	7,872	3,898	2,987
200 and over	6	6	2,133	12,119	6,196	2,905
Unsatisfactory returns	1	1	42		Calminate tanti	
Total	83	48	5,265	30,496(c)	15,609(c)	2,965(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the	Empl	Employees		d salaries	Wages and salaries per head		
year by the establishment (a)	Oper- atives	Others (d)	Oper- atives	Others (d)	Oper- atives	Others (d)	
3	Number	Number	£'000	£'000	£	£	
1-5	10000			arry i	rate to to		
6-10							
11-24							
25-49	409	320	489	535	1,196	1,673	
50-99	383	314	442	481	1,154	1,533	
100-199	753	549	904	879	1,201	1,601	
200 and over	1,084	1,049	1,478	1,579	1,363	1,505	
Unsatisfactory returns		••	••	••		NOVER THE PROPERTY LAND	
Total	2,821(c)	2,413(c)	3,556(c)	3,750(c)	1,260(c)	1,554(c)	

<sup>(</sup>a) Including working proprietors.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	1	3	4
18 and over	59	37	96
All ages	60	40	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the chemical industries not elsewhere specified - minimum list heading 279 - at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification (Revised 1968).

<sup>(</sup>b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

<sup>(</sup>c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

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

TABLE 4 Analysis of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)

		Unit	1963	1968
Number of enterprises		No.	30	28
Number of establishments		ı,	63	56
Gross output		£'000	20,262	28,625
Net output		п	10,131	14,651
Net output per head		£	2,147	2,965
Sales and work done	goods produced and work done (b)	£,000	19,013	26,176
bares and work done	merchanted goods and canteen takings	"	1,230	2,137
Index of specialisation (c)		Per cent.	95	97
e vere destructions to the second	materials for processing and packaging, and fuel	£'000	8,830	12,239
Purchases	goods for merchanting and canteen purchases	11	1,089	1,630
	for work done on materials given out	"	18	18
D	for transport			
Payments to other organisations	by road	n		140
	by rail and other means excluding postal services	п		108
Stocks and work in progress				
Goods on hand for sale	change during year	п	+ 4	+ 243
goods on maid for sure	at end of year	"	807	1,285
W	change during year	п	+ 14	+ 68
Work in progress (e)	at end of year	п	161	320
Materials, stores	change during year	27 n 32	+ 31	+ 162
and fuel	at end of year	"	1,431	2,016
	(total, including working proprietors	No.	4,719	4,942
Number employed on	operatives	ü	2,577	2,657
average during the year	other employees (d)	"	2,131	2,274
		0,000		
Wages and salaries	of operatives of other employees (d)	£'000	2,316	3,349
		"	2,492	3,534
Wages and salaries per head	operatives {	£	899	1,260
	other employees (d)	"	1,169	1,554
Capital expenditure (e)			508	.00
New building work		£'000	243	489
Land and existing buildings	acquisitions	"	2(f)	176
	disposals	"		141
Plant and machinery	acquisitions	n.	318	683
	disposals	"	33	7
Vehicles	\int acquisitions	"	178	256
venicies	disposals	п	73	105

For notes to this table - see page 41/7.

Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

1988	196	33		196	8		
Totale for use in predopring	Quantity	Value	Quantity	Value	Enter- prises	Entries	
	Th.cwt.	£,000	Th.cwt.	£'000	Number	Number	
News inks and other mineral oil inks	430	1,665	esorianto	2,332	10	13	
Photogravure, aniline, evaporative and other inks, drying by solvent evaporation	225	5,339	305	8,062	20	25	
Letterpress and lithographic ink	201	8,827	219	11,602	23	30	
Display colours and silkscreen inks	58.0	1,309 {	24.6	859 399	] 13	16	
Other printers' inks and printing ink makers' materials, not elsewhere specified	••	1,156		3,013	23	28	
Printers' rollers and compositions	of political	2,121	TO ME SOOT	2,951	13	15	
Other products		67		302	*	*	
Waste products	1 = 1.00	1		_	*	*	
Total		20,485		29,520		••	
Sales in other industries (see Table 6)		2,443		4,001			
Principal products of this industry sold by establishments in the industry		18,042		25,519	28	35(a)	

(a) This figure represents the total number of returns made for larger establishments in this industry which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Sales of principal products by larger establishments classified to other industries amounted to £4,001,000 in 1968 and £2,443,000 in 1963. Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

## Footnotes to Table 4.

- (a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 7 establishments in 1968 and 17 in 1963.
- (b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or 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
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Acquisitions less disposals.

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963	1968	
	Value	Value	
Paints, colours and stainers	723	531	
Other products and work done	248	77	
Services rendered to other organisations (a)	-	49	
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	1,197	2,099	
Canteen takings	33	39	
Total	2,202	2,795	

<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 establishments, 1963 and 1968

This table is not applicable to this industry.

TABLE 9 Purchases by larger establishments of selected principal products of the industry, 1968

This table is not applicable to this industry.

Purchases by larger establishments in the industry, 1963 and 1968 TABLE 10 Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Countries Great Countries Conf.	196	3	1968	
	Quant ity	Cost	Quantity	Cost
laterials for use in production	CONSTRUCTION	£'000	line entres	£,000
Rubber	10000	12-4-3402.03	The state of the state of	
Natural including reclaimed, compounded and latex		150	A MODELLA CONTRACTOR	22
Synthetic including latex	}	153 {	a west done	112
Gelatine, osseine, starch and dextrine		(a)		26
Vegetable and seed oils (raw, refined, boiled or	white interest in	to the special	alam) picada	
otherwise modified)		000	Stage Stage	004
Linseed		229		264
Other		116		112
Refined glycerol (glycerine)		23		34
Natural gums and resins		14-157	dina ani	
Alkali-soluble resins (including shellac)	de specie sin		e moriena ty	364
Other natural gums and resins (including emulsifiable resins used in self polishing formulations)	]	173 {		259
Mineral oils other than for use as fuels	is the mountain		edally bus on	
White spirit		1	liones • • se de	55
Other petroleum solvents	}	744 {		325
Other (excluding lubricating oils)				305
Waxes				
Wholly synthetic	1	(a) {		71
Other (including vegetable and petroleum waxes)		(a)		22
Dyestuffs and pigments, dry or in pulp form	C. The C. Then 23			
Synthetic organic pigment dyestuffs, pure or reduced (including pigment dyestuffs, lakes and toners)	A C. C. LUNGUVA V	1,852	gas: 1. 100	3,429
Other pigments and earth colours (including white lead)	m 2 2 3 2 4 5 5	1,010	i ble holos	1,363
General chemicals (excluding pesticide chemicals and chemicals used for photographic purposes) (b)			The Part of the	
Inorganic chemicals (including inorganic gases)		130	in times	116
Organic chemicals (including organic gases)	1.70		STEEL IN LONG	
Alcohols (c)			mailtone for t	1502 1773
Methanol (methyl alcohol)		g to a toda Nation who		108
Ethanol (ethyl alcohol)		658	drago	131
Ethanediol (ethylene glycol)		000		23
Other	J		e son i	177
Cellulose derivatives				
Cellulose acetates		(a)	best type	132
Cellulose nitrate (nitro-cellulose)		Soin utei	numo turque t	68
Cellulose ethers and ether-esters (eg carboxy methyl cellulose)	}	165	इंटर्ज़ के प्रकार के स्थाप उद्याप के स्थाप किस	134
Other		(a)		187
Benzole and solvent naphthas		(a)	Captured	22
Cyclic hydrocarbons (benzene, toluene, xylene, etc)	foot exemples	(a)	bes lebles	189
Other organic chemicals and gases		267	serves box	393
Other chemicals (eg mixtures of inorganic and organic		elatesti	e anigerous	1980-11
chemicals)		(a)		7

Continued on next page.

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	190	63	19	968
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)		£'000		£,000
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)	0		tro an one o	o't alaysa
Acrylics solutions, emulsions and dispersions		(a)		40
Alkyds (including styrenated alkyds) and unsaturated polyesters (e)		623	antonioni i	59 <b>7</b>
Aminoplastics (melamine and urea formaldehyde)			Th.cwt. 8.4	94
Cellulose ester and ether sheet, film, foil, rod, tube, profile shapes and photographic film base, thermosetting polyesters, including epoxide resins, and resin glass fibre mixtures	}	(a) <	ther (166)	64
Phenolics and allied products (including cresylic), resins (the net resin content), solutions, emulsions, dispersions, moulding and extrusion compounds			33.5	374
Polyvinyl acetate solutions, emulsions and dispersions (f)		4	empt admit	, 113
Styrene polymers and copolymers, solutions, emulsions and dispersions, silicones and siloxenes		garda e toc	da milita	17
Light metal and non-ferrous metals in all forms except finished parts, wire and scrap		(a) {	10.2%	37
	Th.gal.			
Lubricating oils and greases	6.9	2 9	}	24
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement	a familia de la	Madillo Telica e		
Tyres and other spare parts for firms, own road goods vehicles	1	78 {	anings of his	17
Other		and business	Amer.le o	85
All other materials for use in production	Bulloui, ve	1,686	from the second	983
Packaging materials	weeks works the			
Paper and board	The Control of the Co		alt tel fan	
Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard		eriburont v grabaln	e.lbs runds r a for inch	50
Fibreboard packing cases		44 {		11
Other packaging materials of paper and paperboard (including moulded pulp units and labels but excluding board for converting into packaging materials)		ciones la Clores	ngians, Ira Chisani Ta	22
Metal	1 100 100 100	ortin and	dis fortis	
Cans and boxes	Thousands	285	Thousands	362
Barrels, kegs and drums	464	167	704	306
Timber for manufacture into packing cases, etc (sawn or planed but not plywood), containers wholly or mainly of wood and other wood products for packaging	way axeser-	42	Santa anol	
(including wood wool)		10	100	12
Glass containers	160	3	196	2
Plastic moulded and fabricated containers including closures and inserts (g)	ca .ecopie ,	3	sodsacos ky anto oides	19
All other packaging materials		37		40

TABLE 10 (continued)

taposte oto	19	63	196	88
	Quantity	Cost	Quantity	Cost
uel and electricity (h)	Th. tons	£,000		£'000
Coal	4.0	27		12
			Th. tons	
Coke (including screenings) and manufactured fuel	0.8	8	0.2	3
	Th.gal.		Th.gal.	
Derv fuel and motor spirit for use in road vehicles	238	52	381	102
Other liquid fuels (including creosote/pitch mixtures,	1 000	40	1,085	54
etc, and liquefied petroleum gases)	1,082	40		0.
	Th. therms		Th. therms	0.
Gas	451	27	261	24
	Th.kWh		Th.kWh	
Electricity	15,837	139 24	23,939	240
	ч	A. 5	7	
All other fuels		(a)		16
Total cost of materials and fuel		8,829		12,239
		1,056		1,58
Goods purchased for merchanting		33	of the day of	4
Canteen purchases		33		1
Total cost of purchases		9,918	into t	13,869

- (a) Not recorded separately for 1963.
- (b) For 1963 described as 'Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc)'.
- (c) For 1963 described as 'Solvents and diluents (including benzoles, solvent naphthas, alcohols, esters, ketones, etc)'.
- (d) For 1963 included with Organic chemicals (solvents and diluents).
- (e) For 1963 described as 'Alkyds (including styrenated alkyds) solid and liquid resins including solutions, emulsions and dispersions'.
- (f) For 1963 'Polyvinyl acetate emulsions' only.
- (g) For 1963 described as 'Plastics moulded and fabricated packs and containers (eg bottles and bottle caps) wholly or mainly of polyethylene'.
- (h) Owing to the risk of disclosure of information relating to individual firms the total quantity of electricity generated in firms' own establishments in this industry in 1968, cannot be given. None was recorded for 1963.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	Unit	1963	1963
Average number mainly employed on transport	No.	174	209
Transport <b>c</b> osts			
Wages and salaries	£'000	171	301
Derv fuel and motor spirit	o to Paters	52	102
Tyres and other spare parts for road goods vehicles	ene parte d	Wildren to the	17
Payments to other organisations for transport by rail and other means excluding postal services	11	226 {	140
Costs of operating road goods vehicles			
Insurance	п	9	17
Vehicle licences	п	9	21
Depreciation	п	47	72
Payments to other organisations for repairs and maintenance	and the state of t	19	57
Total	"	532(a)	835

(a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	Amounts	Amounts payable	
College (afp) at a mail factor that or yellars and	1963	1968	
Repairs and maintenance to	£'000	£'000	
Buildings	52	65	
Road goods vehicles	19	57	
Plant, machinery and other capital equipment	60	113	
Insurance, licensing and depreciation of road goods vehicles (b)	64	110	
Rates, excluding water rates	133	221	
Hire of plant and machinery	4	10	
Postage, telephone, telegrams, cables and telex (c)	95	143	
Total	427	719	

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

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Year ended	Percentage of total returns received	Percentage of total number employed	
1968	Per cent.	Per cent.	
April (a)	0.0	0.0	
May	2.9	1.0	
June	5.7	3.3	
July	0.0	0.0	
August	2.9	0.7	
September	5.7	2.1	
October	0.0	0.0	
November	2.9	0.8	
December	34.3	41.0	
1969			
January	5.7	2.8	
February	0.0	0.0	
March	39.9	48.3	
April (b)	0.0	0.0	
	100	100	

<sup>(</sup>a) From 6 April.

<sup>(</sup>b) For details see Table 11.

<sup>(</sup>c) Excluding Telex for 1963.

<sup>(</sup>b) To 5 April.

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