

44 Iron and steel (general)

This Report on the Iron and Steel (General) Industry relates to establishments engaged wholly or mainly in manufacturing wrought iron at wrought iron works including puddling furnaces, and steel. It includes establishments engaged in the production of pig iron (in integrated steel works), ferro-manganese or spiegeleisen at blast furnaces (including ore preparation plants); making alloy or carbon steel in furnaces or converters; rolling (including re-rolling and cold rolling) steel into semi-finished or finished forms; the production of castings in steel foundries; the production of railway and tramway tyres, wheels and axles, points, switches and crossings; colliery arches; bright bars and heavy forgings; steel plates and sheets (including coated and corrugated sheets) in cut lengths or coils; tinsplate, terneplate and blackplate; and semi-finished material for conversion into tubes and wire. Steel rolls for metal rolling mills and for other machinery are excluded as is the production of tubes, wire, drop forgings, drop stampings and hot-pressings.

This industry corresponds to minimum list heading 311 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 definition of this industry however is unchanged from the last detailed Census of Production for 1963 in which it was reported (Part 37).

There were no establishments in this industry in Northern Ireland in 1963 and 1968.

METHOD OF CLASSIFICATION

The classification of returns to this industry followed the standard procedure as outlined in the notes on page (i). A different procedure was used in classifying returns to the sub-divisions of this industry, shown in Table 4. First those with more than half their total output comprising the characteristic products of either 'Wrought iron works, including puddling furnaces' or 'Work done on commission and other work done' were classified accordingly. The remaining returns were divided into two main groups according to whether or not firms reported that a melting process was undertaken in their production of steel at the establishments concerned. Returns reporting 'Steel manufacture with melting' that had more than half of their total output shown as steel castings were classified to the 'Castings' sub-division, the remainder being classified to the alternative sub-division 'Other' in this main group. Returns reporting 'Steel manufacture without melting' that had more than half of their total output applicable to either of the sub-divisions 'Forgings' or 'Steel sheets and tinsplate' were classified accordingly, the remaining returns being classified to the third sub-division, 'Other', in this main group.

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 less disposals.TABLE 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

	Unit	All establishments		
		1963	1968	
Number of enterprises	No.	359	394	
Number of establishments	"	554	600	
Gross output	£'000	1,317,012	1,610,156	
Net output	"	405,834	504,185	
Net output per head	£	1,506	1,971	
Sales and work done	£'000	goods produced and work done (c)	1,294,529	1,586,006
		merchanted goods and canteen takings	15,875	15,896
Purchases	"	materials for use in production and packaging and fuel	853,377	1,054,087
		goods for merchandising and canteen purchases	14,362	14,732
Payments to other organisations	"	for work done on materials given out	11,593	13,078
		for transport	28,864	19,736
		by road		
	"	by rail and other means excluding postal services		11,169
Stocks and work in progress				
Total stocks and work in progress	"	change during year	+ 3,627	+ 15,085
		at end of year	247,635	294,131
Goods on hand for sale	"	change during year	+ 3,969	+ 2,648
		at end of year	44,087	57,104
Work in progress	"	change during year	+ 2,640	+ 5,606
		at end of year	70,218	83,095
Materials, stores and fuel	"	change during year	- 2,982	+ 6,831
		at end of year	133,331	153,933
Number employed on average during the year	Th.	total, including working proprietors	269.5	255.7
		operatives	213.5	197.1
		other employees (d)	55.8	58.4
Wages and salaries	£'000	of operatives	176,803	216,156
		of other employees (d)	51,992	71,449
Capital expenditure (e)				
Total	"	101,636	68,140	
New building work	"	16,780	8,282	
Land and existing buildings (f)	"	305	261	
Plant and machinery (f)	"	83,182	58,198	
Vehicles (f)	"	1,369	1,398	

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 1 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns were negligible. A similar situation existed for 1963.

(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	158	215
Average number employed:		
Working proprietors	169	177
Other persons employed	1,598	1,976

Footnotes continued on page 44/2.

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
1-5	54	54	177	..	..	..
6-10	36	36	282	..	..	..
11-24	77	74	1,380	..	..	..
25-49	53	49	1,978	11,455	3,724	1,883
50-99	72	57	5,139	35,564	11,033	2,147
100-199	82	71	11,787	77,017	22,547	1,913
200-299	41	32	10,197	62,437	17,991	1,764
300-399	19	17	6,715	55,590	13,551	2,018
400-499	18	15	7,980	46,545	12,427	1,557
500-749	17	15	10,168	37,049	16,426	1,615
750-999	11	4	9,406	52,994	17,391	1,849
1,000-1,499	12	6	14,957	102,829	26,044	1,741
1,500-1,999	10	6	16,703	101,049	37,625	2,253
2,000 and over	33	6	157,721	1,008,782	319,507	2,026
Unsatisfactory returns	65	63	1,159	..	..	..
Total	600	394	255,749	1,610,156(c)	504,185(c)	1,971(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Employees		Wages and salaries		Wages and salaries per head	
	Oper-atives	Others (d)	Oper-atives	Others (d)	Oper-atives	Others (d)
	Number	Number	£'000	£'000	£	£
1-5	..	..	..	..	..	..
6-10	..	..	..	..	..	..
11-24	..	..	..	..	..	..
25-49	1,511	444	1,514	537	1,002	1,209
50-99	4,037	1,081	4,213	1,396	1,044	1,292
100-199	9,157	2,613	9,486	3,166	1,036	1,212
200-299	8,029	2,167	8,113	2,362	1,010	1,090
300-399	5,341	1,374	5,845	1,499	1,094	1,091
400-499	6,115	1,865	6,094	2,169	997	1,163
500-749	7,853	2,315	7,674	2,464	977	1,064
750-999	7,205	2,201	7,590	2,311	1,053	1,050
1,000-1,499	11,762	3,195	13,314	3,890	1,132	1,218
1,500-1,999	12,746	3,957	14,441	4,535	1,133	1,146
2,000 and over	121,179	36,542	135,524	46,320	1,118	1,268
Unsatisfactory returns	..	..	..	..	..	..
Total	197,093(c)	58,417(c)	216,156(c)	71,449(c)	1,097(c)	1,223(c)

(a) Including working proprietors.

(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.

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

(d) Administrative, technical and clerical employees.

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	2	1	3
18 and over	89	8	97
All ages	91	9	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification, (Revised 1968).

Footnotes to Table 4.

- (a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 14 establishments in 1968 and 12 in 1963.
- (b) The method of classifying returns to sub-divisions of the industry is explained in the notes.
- (c) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.
- (d) 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).
- (e) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public by larger establishments are included. These amounted to £62,000 in 1968. Similar information is not available for 1963.
- (f) Including sales of products characteristic of other sub-divisions besides those characteristic of the sub-division (see the Note on Method of Classification).
- (g) Characteristic products relate only to sub-divisions of the industry.
- (h) For sub-divisions of the industry, this is the ratio of sales of the characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (i) Administrative, technical and clerical employees.
- (j) Excluding expenditure for establishments not yet in production.
- (k) Acquisitions less disposals.

TABLE 4 Analysis of larger establishments, 1963 and 1968

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

	Unit	Sub-divisions of the industry (b)				Sub-divisions of the industry (b)								Total			
		Steel manufacture with melting				Steel manufacture without melting						Wrought iron works including puddling furnaces. Work done on commission and other work done 10 and 26					
		Castings		Other than castings		Forgings		Steel sheets and tinplate		Other than forgings, steel sheets and tinplate							
		21	22	23	24	25	10	26									
		1963	1968	1963	1968	1963	1968	1963	1968	1963	1968	1963	1968				
Number of enterprises (c)	No.	50	46	50	28	28	21	12	10	93	90	21	23	208	186		
Number of establishments	"	61	59	112	96	37	33	18	18	147	150	25	26	400	382		
Gross output	£'000	36,860	58,129	900,899	1,085,436	25,204	16,183	105,665	111,146	233,628	316,205	3,767	5,592	1,306,023	1,592,691		
Net output	"	19,792	32,686	306,771	369,238	7,401	6,185	17,900	20,841	48,121	66,202	2,463	3,565	402,448	498,717		
Net output per head	£	1,216	1,649	1,534	2,010	1,518	1,748	1,751	2,265	1,403	1,887	1,452	2,189	1,506	1,971		
Sales and work done	{ goods produced and work done (d) (e)	£'000	34,140	54,910	886,985	1,073,015	23,318	14,638	105,974	110,316	230,435	310,807	3,778	5,118	1,283,727	1,568,804	
		{ merchanted goods and canteen takings	"	2,437	2,910	8,135	5,657	1,936	1,337	410	988	2,813	4,411	12	420	15,742	15,723
Sales of characteristic products	"	29,192	45,832	806,680(f)	997,489(f)	21,518	13,780	102,522	103,053	210,522(f)	289,830(f)	3,448	4,139	(g)	(g)		
Index of specialisation (h)	Per cent.	86	83	91	93	92	94	98	93	91	93	91	81	93	94		
Purchases	{ materials for use in production and packaging, and fuel	£'000	13,313	20,665	552,996	685,786	15,503	8,623	85,935	87,573	177,360	238,447	1,149	1,558	846,256	1,042,654	
		{ goods for merchenting and canteen purchases	"	2,596	2,679	7,204	5,338	1,591	1,171	365	867	2,479	4,120	7	396	14,242	14,572
Payments to other organisations	{ for work done on materials given out for transport	"	716	1,585	8,030	8,065	314	363	183	181	2,205	2,702	48	39	11,496	12,936	
		{ by road	"		463		11,467										
		{ by rail and other means excluding postal services	"	369	50	21,648	9,508	202	19	1,345	236	5,002	1,234	56	1	28,623	11,048
Stocks and work in progress																	
Goods on hand for sale	{ change during year	"	- 22	- 46	+ 4,248	+ 3,179	+ 15	+ 39	- 30	- 685	- 267	+ 94	- 8	+ 39	+ 3,936	+ 2,619	
		{ at end of year	"	179	620	32,639	41,725	190	308	4,134	4,972	6,553	8,734	22	125	43,719	56,485
Work in progress	{ change during year	"	+ 305	+ 355	+ 1,532	+ 3,584	- 64	+ 169	+ 211	+ 528	+ 649	+ 894	- 15	+ 15	+ 2,618	+ 5,545	
		{ at end of year	"	3,757	5,172	51,980	61,146	1,153	1,007	7,176	5,351	5,475	9,432	91	85	69,632	82,193
Materials, stores and fuel	{ change during year	"	- 73	- 1	- 4,250	+ 3,965	- 193	+ 391	+ 63	- 539	+ 1,540	+ 2,913	- 45	+ 28	- 2,957	+ 6,757	
		{ at end of year	"	1,761	2,904	99,466	115,833	2,366	2,166	7,573	6,910	20,830	24,156	221	295	132,218	152,263
Number employed average during the year	{ total, including working proprietors	No.	16,272	19,820	199,938	183,702	4,869	3,538	10,223	9,200	34,289	35,086	1,695	1,629	267,286	252,975	
		{ operatives	"	12,922	15,396	158,269	141,683	3,891	2,708	7,968	6,839	27,327	27,118	1,504	1,346	211,881	195,090
		{ other employees (i)	"	3,343	4,417	41,665	42,014	967	823	2,253	2,356	6,941	7,937	185	276	55,354	57,823
Wages and salaries	{ of operatives	£'000	9,878	15,820	132,973	156,686	2,995	2,714	7,147	7,879	21,240	29,372	1,152	1,488	175,384	213,959	
		{ of other employees (i)	"	3,210	5,276	38,852	51,828	1,004	1,007	1,964	2,913	6,378	9,348	202	349	51,609	70,723
Wages and salaries per head	{ operatives	£	764	1,028	840	1,106	770	1,002	897	1,152	777	1,083	766	1,105	828	1,097	
		{ other employees (i)	"	960	1,194	932	1,234	1,039	1,224	872	1,236	919	1,178	1,090	1,264	932	1,223
Capital expenditure (j)																	
New building work	£'000	473	476	13,584	6,223	189	15	697	695	1,645	774	52	10	16,640	8,193		
Land and existing buildings	{ acquisitions	"	37	292	428	192											
		{ disposals	"	121	56	264	612	15(ky)	-	2(ky)	190	273	457	15	1	760	1,133
Plant and machinery	{ acquisitions	"	1,314	1,904	75,641	47,321	761	483	579	3,517	6,038	4,903	97	298	84,430	58,427	
		{ disposals	"	65	48	1,438	641	15	22	294	16	127	128	3	5	1,942	860
Vehicles	{ acquisitions	"	127	253	1,152	882	52	79	10	122	300	464	32	58	1,674	1,858	
		{ disposals	"	35	61	141	206	27	25	4	23	103	153	6	8	316	476

For notes to this table - see page 44/5.

TABLE 5 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

	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Th.tons	£'000	Th.tons	£'000	Number	Number
Spiegeleisen and blast furnace ferro-manganese	88.5	3,278	104	5,095	*	*
Finished wrought iron	9.5 ..	570 190	5.0	334	*	*
Steel ingots						
Of alloy steel	244	13,460	258	21,351	18	39
Other than of alloy steel	1,042	28,489	1,188	31,670	15	48
Steel castings (excluding rolls for metal rolling mills) (a)						
Of alloy steel	211	44,639	65.8	24,833	56	68
Other than of alloy steel			138	30,240	55	71
Steel blooms, billets and slabs (including sheet/plate mill slabs and sheet bars)	4,456	174,384	5,243	212,569	24	63
Cold rolled steel sections		(b)	70.5 ..	6,308 1,880	14	14
Cold finished bars (bright bars)	449	32,890	602	49,646	43	56
Other angles, shapes and sections, girders, joists and columns (unfabricated) and bars and rods (including tube rounds and squares)						
Of alloy steel						
High speed alloy steel			9.5	7,865	26	32
Other alloy steel (including magnetic steel)	418	48,294	394	46,052	49	75
Other than of alloy steel						
Wire rods	1,009	44,564	1,395	63,843	22	31
Other bars and rods in coil						
Tool steel	314	14,013	5.8	1,696	15	16
Other than tool steel			233	12,548	11	13
Arches, cambered joists, solid plain pit props, bench or header bars and accessories (c)	382	18,111	308	17,073	13	20
Other sections and bars, light						
Angles, tees and sections of 4 united inches and under; channel 3 inches web and under; joists and H bars under 3 inches web; other bars, sections and hexagons under 3 inches, and flats 5 inches wide and under	2,016	97,148	2,137	108,175	37	69
Other sections and bars, heavy						
Angles, tees and sections over 4 united inches; channels over 3 inches web; girders, joists and beams and columns 3 inches web and over; rounds, squares and hexagons 3 inches and over, and flats over 5 inches wide	1,771	78,197	2,392	112,535	24	48
Total cold rolled steel sections and cold finished bars (bright bars) and other angles, shapes and sections, girders, joists and columns (unfabricated) and bars and rods (including tube rounds and squares)	6,359	333,218	7,546 ..	425,742 1,880	..	..

TABLE 5 (continued)

	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Th.tons	£'000	Th.tons	£'000	Number	Number
Hot rolled coil from wide continuous mills						
3 mm. thick and over	1,692	72,082	332	13,848	*	10
Thinner than 3 mm.			2,095	86,812	*	11
Hoop and strip not exceeding 24 inches in width (d)	1,310	77,122	1,473	99,614	27	43
Steel plates, uncoated, 3 mm. thick and over, coiled or cut	2,446	111,800	3,215	157,354	20	38
Steel sheets, uncoated, under 3 mm. thick, coiled or cut	2,428	142,475	2,742	159,507	17	27
Total hot rolled coil, hoop and strip, uncoated plates and sheets	7,877	403,479	9,858	517,134	..	..
Tinplate and blackplate (e)	1,174	83,578	1,248	94,040	6	8
Galvanised sheets						
Flat	162	10,282	280	18,225	*	8
Corrugated	83.2	5,559	93.8	6,547	*	6
Polyvinyl chloride coated sheets, tinned sheets and other coated plates or sheets	197	18,114	222	23,660	7	12
Total coated plates and sheets	1,616	117,533	1,843	142,472	..	..
Railway, etc, materials						
Steel rails, new (including grooved rails for trams and conductor rails for electric traction)						
Weighing under 36 lb. per yard	13.5	480(f)	9.7	378	*	6
Weighing 36 lb. and over per yard	214	9,174(f)	212	9,455	*	9
Points, switches and crossings	11.3 ..	931 1,074	11.5 ..	1,470 622	6	6
Sleepers, fishplates and soleplates	37.0 ..	2,038(f) 428	29.4	1,588	6	10
Railway spikes	9.5	790	5.3	373	5	7
Other railway track equipment	..	1,278(f)	4.8 ..	412 134	8	9
Axles, tyres, wheels and wheelpairs for locomotives, carriages, railcars, wagons, trucks (all gauges) and tramways	50.5	5,327	56.7	6,881	10	13
Total railway, etc, materials	335 ..	18,740 2,780	330 ..	20,556 756	..	..
Steel forgings, in the rough or machined, not elsewhere specified (excluding drop forgings and rolls for metal rolling mills) (g)						
Of alloy steel	139	27,712	63.6	19,439	44	54
Other than of alloy steel	72.7	12,682	77.1	13,735	50	58
Permanent magnets	..	2,413	..	3,232	9	9
Other products	..	5,623	..	6,905	21	32
Waste products						
Scrap metal						
Iron and steel	..	15,544	1,405	18,638	125	222
Other descriptions	..	1,389	..	982	47	67

Continued on next page.

TABLE 5 (continued)

	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
		£'000	Th.tons	£'000	Number	Number
Waste products (continued)						
Blast furnace slag	..	259	3,060	245	*	11
Steel furnace slag	}	1,303	507	1,128	*	10
Other waste products			..	474	18	32
Work done						
Tilting and rolling		8,122		6,667	39	74
Heat treatment		2,115		3,429	51	73
Hire melting	}	3,211		229	15	17
Other work done on commission (excluding galvanising)				4,744	57	95
Total		1,221,134		1,514,479	..	..
Sales in other industries (see Table 6)		29,604		40,955	..	..
Principal products of this industry sold by establishments in the industry		1,191,531		1,473,525	186	325 (h)

- (a) Rolls for metal rolling mills are included in the report on the General Mechanical Engineering Industry (Part 66).
- (b) Not separately distinguished for 1963.
- (c) For 1963 not specified as being other than of alloy steel.
- (d) For 1963 described as 'Hoop and strip under 18 inches in width'.
- (e) For 1963 described as 'Tinplate, terneplate and sheets'.
- (f) Revised figures.
- (g) Drop forgings are included in the report on the Drop Forgings, etc, Industry (Part 95).
- (h) 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

	1963		1968			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
	Th.tons	£'000	Th.tons	£'000	Number	
Spiegeleisen and blast furnace ferro-manganese	1.1	72	1.6	82	*	49,125
Steel ingots	138	5,222	117	4,398	6	45,48,66
Steel castings (excluding rolls for metal rolling mills) of alloy steel and other than alloy steel, and steel blooms, billets and slabs (including sheet/plate, mill slabs and sheet bars)	65.5	6,794	37.5	6,187	22	45,46,65,66
Cold rolled steel sections, cold finished bars (bright bars) and angles, shapes and sections, girders, joists and columns (unfabricated) and bars and rods (including tube rounds and squares)						
Of alloy steel	19.3	2,180	6.1	1,967	14	71,87,91,95
Other than of alloy steel						
Wire rods	}	225	12.5	716	9	91,97
Other wire rods and bars in coil (including reinforcement bars)						
Bright bars, channels, girders, beams, joists and pillars (rolled), flats, rounds, hexagons and squares	25.9	2,909	40.2	3,053	12	45,87,91,136
Other than of alloy steel						
Steel arches, cambered joists, solid plain pit props, bench or header bars and accessories	17.7	874	32.2	2,931	9	56,58,63,66
Total cold rolled steel sections, cold finished bars (bright bars) and angles, shapes and sections, girders, joists and columns (unfabricated) and bars and rods (including tube rounds and squares)	66.7	6,189	91.0	8,667	..	
Railway, etc, materials						
Steel rails, new (including grooved for trams and conductor rails for electric traction), points, switches and crossings	..	590	..	405	*	56,151
Sleepers, fishplates and soleplates and railway spikes	..	952	2.8	171	5	86,90
Other railway track equipment	..	185	..	134	*	54,77,79
Axles, tyres, wheels and wheel-pairs for locomotives, carriages, railcars, wagons, trucks (all gauges) and tramways	1.9	380	5.8	1,391	7	53,85,86
Total railway, etc, material		2,107		2,101	..	

Continued on next page.

TABLE 6 (continued)

	1963		1968			Principal industries in which produced (a)
	Quantity	Value	Quantity	Value	Entries	
	Th.tons	£'000	Th.tons	£'000	Number	
Steel forgings in the rough or machined, not elsewhere specified, excluding drop forgings and rolls for metal rolling mills						
Of alloy steel	5.2	1,082	4.7	2,563	8	47,52,53,95
Other than of alloy steel	5.8	966	9.3	2,006	14	64,90,95
Hoop and strip not exceeding 24 inches in width, permanent magnets and steel sheets and plates coated and uncoated	..	7,049 ^(b)	189	14,642	15	45,49,92,130
Work done on commission, sub-contract work, etc		124		310	8	
Total		29,604		40,955	..	

(a) The references given are to the list of industries at the front of this report.

(b) Including finished wrought iron for 1963.

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	
	Quantity	Value	Quantity	Value
	Th.tons	£'000	Th.tons	£'000
Pig iron	1,972	41,111	1,448	26,688
Iron castings in the rough or machined	19.2	1,569	63.8	4,113
Wood and metal patterns	..	113	..	238
Manufactures of non-ferrous metals	..	1,511	..	2,648
Industrial plant and fabricated iron and steelwork	..	2,450	..	3,737
Rolls for metal rolling mills	18.5	5,835	15.3	5,385
Other machinery and parts thereof	..	1,537	..	2,146
Parts for locomotives, railway carriages, wagons and trucks	..	2,569	..	2,832
Engineers' small tools and other tools and implements	..	1,874	..	1,617
Bolts, nuts and rivets of iron and steel (other than tubular rivets of bifurcated rivets manufactured from wire)	..	974	..	614
Springs	20.7	2,829	14.6	1,851
	..	374	..	239
Miscellaneous forgings, stampings and pressings, including steel drop forgings	..	5,332	26.9	5,358
Other manufactures of iron and steel	..	9,358	..	15,308
Other products	..	2,852	..	4,359
Structural work carried out in Great Britain (a)		923		980
Other work		634		314
Sales to other departments of firms or to outside consumers				
Gas	119,389	2,767	258,051	5,661
	..	416		
Electricity	606,171	2,978	874,507	4,492
Steam and waste heat	..	1,606	..	2,133
Services rendered to other organisations (b)		2,585		4,566
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)		13,527		13,382
Canteen takings		2,215		2,341
Total		107,939		111,002

(a) The data shown for 1963 is not comparable with that for 1968. Because of a change in the method of collection, the data for 1968 includes goods made by firms and incorporated in their building and civil engineering work, whereas the data for 1963 excludes such goods. For 1963 the value of goods made and used in building and civil engineering work amounting to £207,000 has been deducted from the gross figure for building and civil engineering (£1,130,000) in order to avoid duplication which arises because they have been included against the appropriate sales headings elsewhere in the Report. For 1968 duplication does not arise since goods made and used in building and civil engineering work were not shown additionally as sales elsewhere in the Report; it is estimated that these goods amounted to £718,000.

(b) 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 (a)

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

Standard Industrial Classification	Purchasing industry (b)	Iron and steel in all forms except finished parts, wire and scrap									
		Pig iron, including refined pig iron, and other irons for re-melting		Iron castings		Steel ingots, blooms, billets, slabs and sheet and tinplate bars		Steel bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares		Steel plates, 3 mm. thick and over	
		Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Minimum List Heading		Th.tons	£'000	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000
101	Coal mining		(c)		(c)		(c)	578	34,957		(c)
215	Milk and milk products		(c)		(c)		(c)		(c)		(c)
218	Fruit and vegetable products		(c)		(c)		(c)		(c)		(c)
311	Iron and steel (general)	1,825	34,175	208	6,925	5,721	212,332		(d)		(d)
312	Steel tubes	127	2,269		(d)	397	16,122	298	16,036	218	11,594
313	Iron castings, etc	1,086	23,447	41.4	3,873		(d)		(d)		(d)
331	Agricultural machinery (except tractors)		(d)		(d)		(d)		(d)	32.9	1,839
332	Metal-working machine tools		(d)	78.1	9,420		(d)	90.2	6,437	37.3	2,209
333	Pumps, valves and compressors	34.2	779	41.4	5,960		(d)	55.9	6,472		(d)
334	Industrial engines		(d)	..	6,533		(d)		(d)		(d)
335	Textile machinery and accessories		(d)	27.6	3,695		(d)		(d)		(d)
336	Construction and earth moving equipment		(d)	34.4	4,301		(d)	93.4	6,149	111	6,447
337	Mechanical handling equipment		(d)	36.1	3,152		(d)	112	6,705	74.0	4,017
339/1	Mining machinery		(d)		(d)		(d)	..	1,025	63.9	3,324
339/4	Space heating, ventilating and air-conditioning equipment		(d)		(d)		(d)		(d)	40.1	2,315
339/7	Food and drink processing machinery		(d)		(d)		(d)		(d)		(d)
339/9	Miscellaneous (non-electrical) machinery	..	917	39.7	4,903		(d)	87.0	6,631	44.1	2,773
341	Industrial (including process) plant and steelwork		(d)	19.0	2,198		(d)	663	33,636	527	28,700
342	Ordnance and small arms		(d)		(d)		(d)		(d)		(d)
349	General mechanical engineering	..	1,165	36.5	4,543		(d)	188	13,550	41.0	2,352
354	Scientific and industrial instruments and systems		(c)	..	902		(c)	..	4,228		(c)
361	Electrical machinery		(d)	41.7	5,389		(d)	87.6	5,863	102	6,525
364	Radio and electronic components		(d)		(d)		(d)		(d)		(d)
368	Electric appliances primarily for domestic use		(d)		(d)		(d)		(d)		(d)
369	Miscellaneous electrical goods		(d)		(d)		(d)		(d)		(d)
370	Shipbuilding and marine engineering		(c)	16.3	2,210		(d)	131	6,778	360	17,674
380	Wheeled tractor manufacturing		(d)		(e)		(d)		(d)		(d)
381	Motor vehicle manufacturing	47.8	1,055	673	69,889		(c)	545	40,352	232	12,414
383	Aerospace equipment manufacturing and repairing		(c)		(c)		(c)	36.1	6,536		(d)
385	Railway carriages, wagons and trams		(d)		(d)		(d)		(d)	26.5	1,357
390	Engineers' small tools and gauges		(c)		(d)		(d)	28.5	7,422	..	225
392	Cutlery, spoons, forks and plated tableware, etc		(c)		(c)		(c)	..	933		(d)
393	Bolts, nuts, screws, rivets, etc		(c)		(c)		(d)	173	10,910		(c)
394	Wire and wire manufactures		(c)		(c)		(d)	1,377	62,402		(c)
395	Cans and metal boxes		(c)		(c)		(c)		(c)		(c)
399/1	Metal furniture		(d)		(d)		(d)		(d)		(d)
399/5	Drop forgings, etc		(d)		(d)	..	28,337	201	12,905		(d)
399/6	Metal holloware		(d)		(d)		(d)		(d)		(d)
399/8	Miscellaneous metal goods	67.5	980	18.4	2,895		(d)	188	12,063	63.2	3,446
500	Construction		(c)	..	533		(c)	..	1,562	..	1,438
601	Gas		(c)	112	9,328		(c)		(c)		(c)
	Other industries	109	2,584	92.2	11,545	160	12,786	596	45,273	129	8,499
		..	48	..	18,415	..	2,663	..	6,710	..	1,133
	Total	3,297	65,289	1,516	150,226	6,279	241,240	6,994	413,498	2,102	115,485
		..	2,130	..	30,340	..	31,001	..	28,994	..	2,797

For notes to this table - see page 44/17.

Continued on next page.

TABLE 9 (continued)

Standard Industrial Classification	Purchasing industry (b)	Iron and steel in all forms except finished parts, wire and scrap (continued)											
		Steel sheets under 3mm. thick (including electrical sheets)		Steel hoop and strip (including tape of all thicknesses)		Tin plate and blackplate		Steel forgings (except drop forgings)		Steel castings		Other and unclassified iron and steel	
		Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Minimum List Heading	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000	
101	Coal mining		(c)		(c)		(c)		(c)		(c)		(d)
215	Milk and milk products		(c)		(c)	27.2	2,498		(c)		(c)		(c)
218	Fruit and vegetable products		(c)		(c)	49.0	4,490		(c)		(c)		(c)
311	Iron and steel (general)	179	9,784	2,223	95,484		(d)		(d)		(d)	621	35,556
312	Steel tubes		(d)	351	20,408		(d)		(d)		(d)	392	31,510
313	Iron castings, etc		(d)		(d)		(d)		(d)		(d)		(d)
331	Agricultural machinery (except tractors)		(d)		(d)		(d)		(d)		(d)		(d)
332	Metal-working machine tools		(d)		(d)		(d)	7.4	1,211	5.6	962		(d)
333	Pumps, valves and compressors		(d)		(d)		(d)	6.9	1,478	26.9	6,271	20.0	4,376
334	Industrial engines		(d)		(d)		(d)	3.1	1,117	1.3	414		(d)
335	Textile machinery and accessories		(d)		(d)		(d)		(d)	2.4	525		(d)
336	Construction and earth moving equipment		(d)		(d)		(d)	9.4	1,355	41.8	8,281	37.0	4,715
337	Mechanical handling equipment		(d)		(d)		(d)	6.8	1,005	15.3	2,926	12.9	1,571
339/1	Mining machinery		(d)		(d)		(d)	4.3	689	12.2	2,255	29.0	3,468
339/4	Space heating, ventilating and air-conditioning equipment	87.6	5,389		(d)		(d)		(d)		(c)		(d)
339/7	Food and drink processing machinery		(d)		(d)		(d)		(d)		964		(d)
339/9	Miscellaneous (non-electrical) machinery	22.0	1,755		(d)		(d)	8.0	1,406	20.4	3,152	33.9	3,697
341	Industrial (including process) plant and steelwork	54.0	3,855		(d)		(d)	14.0	1,531	11.3	1,851	100	11,792
342	Ordnance and small arms		(d)		(d)		(d)		(d)	9.1	1,344		(d)
349	General mechanical engineering		(d)	52.8	4,288		(d)		(d)	9.8	2,021	33.0	4,997
361	Electrical machinery	120	12,881		(d)		(d)	14.2	4,260	19.0	4,277	26.5	3,346
364	Radio and electronic components		(d)	38.6	3,010		(d)		(d)		(d)		(d)
368	Electric appliances primarily for domestic use	173	12,871	52.5	4,384		(d)		(d)	5.6	706		(d)
369	Miscellaneous electrical goods	32.5	2,284	61.2	3,744		(d)		(d)		(d)		(d)
370	Shipbuilding and marine engineering		(d)		(d)		(d)	10.1	2,284	10.0	2,044		(d)
380	Wheeled tractor manufacturing		(d)		(d)		(d)	7.7	700		(d)	40.7	24,403
381	Motor vehicle manufacturing	1,130	68,728	344	20,228	11.0	938	167	25,159	34.7	8,738	457	61,083
383	Aerospace equipment manufacturing and repairing	28.1	2,639		(c)		(c)	16.3	8,343	3.5	1,833	10.3	3,799
385	Railway carriages, wagons and trams		(d)		(d)		(d)		(d)		(e)	31.4	3,856
390	Engineers' small tools and gauges		(d)		(d)		(d)		(d)		(d)		(d)
392	Cutlery, spoons, forks and plated tableware, etc		(d)	4.9	2,251		(d)		(d)		(d)		(d)
393	Bolts, nuts, screws, rivets, etc		(c)		(c)		(c)		(c)		(c)		(d)
394	Wire and wire manufactures		(c)		(c)		(c)		(c)		(c)		(d)
395	Cans and metal boxes		(d)		(c)	767	64,791		(c)		(c)		(d)
399/1	Metal furniture	146	9,208		(d)		(d)		(d)		(d)		(d)
399/5	Drop forgings, etc		(d)		(d)		(d)		(d)		(d)		(d)
399/6	Metal holloware	163	10,184		(d)	38.1	2,477		(d)		(d)		(d)
399/8	Miscellaneous metal goods	338	23,541	169	12,681	104	6,862		(d)		(d)	29.2	3,350
500	Construction		(c)		(c)		(c)		(c)		(c)	295	20,294
601	Gas		(c)		(c)		(c)		(c)		(c)	170	16,116
	Other industries	223	18,666	153	11,393	106	9,867	18.1	3,213	25.5	3,733	411	33,126
			1,807		1,466		665		288		2,877		10,699
	Total	2,696	168,219	3,451	177,871	1,102	91,923	293	53,751	254	51,333	2,779	274,466
			20,473		1,466		1,009		5,384		8,844		56,619

(a) The figures include purchases of imported as well as of home produced goods. The table also includes purchases of pig iron, including refined pig iron, and other irons for re-melting and iron castings which are principal products of the Iron Castings, etc Industry (Part 46).

(b) Specified Census Industries for which purchases are one per cent. or more of the total of at least one of the commodities shown.

(c) Not recorded separately.

(d) Included in the total for 'Other Industries'.

(e) Owing to the risk of disclosure of information relating to individual firms, separate figures cannot be given and are included in the total for 'Other Industries'.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968

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

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production	Th.tons	£'000	Th.tons	£'000
Iron ore and manganese ore	23,285	86,069	26,550	93,199
Iron				
Pig iron, including refined pig iron, and other irons for re-melting	1,975	40,600	1,825	34,175
Castings	86.4	3,759	208	6,925
Steel				
Ingots, blooms, billets, slabs (including sheet/plate mill slabs and sheet bars)	5,499	184,262	5,721	212,332
Hot rolled coil from wide continuous mills	1,654	70,987	2,223	95,484
Sheets under 3 mm. thick (including electrical sheets)	59.6	3,047	179	9,784
Iron and steel not elsewhere specified except finished parts, wire and scrap	752	36,012	621	35,556
Iron and steel scrap	6,182	76,189	8,035	97,305
Lime, limestone and dolomite	3,885	7,719	4,592	10,179
Cinder and scale	300	1,150	352	1,394
Pyrites residue	428	1,721	344	1,333
Tungsten ores and tungsten bearing residues	0.6	277	5.0	3,050
Other ores, concentrates and residues not elsewhere specified	..	334	..	2,318
Spiegeleisen and blast furnace ferro-manganese	72.6	4,050	50.5	2,943
Other ferro-alloys	..	15,648	..	27,360
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap				
Zinc and alloys of zinc	21.4	1,675	27.7	3,259
Nickel and nickel alloys (excluding nickel silver and cupro-nickel)	13.0	6,703	21.7	15,085
Tin	203	8,883	175	11,324
Other alloying and finishing materials not elsewhere specified	..	4,027	..	5,202
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics) (a)				
Polyvinyl chloride (including copolymers)				
Polymers and copolymers including the net resin content of latices, solutions and dispersions, plasticised moulding and extrusion compounds (b)	31.0	166	10.7	111
Plasticised and unplasticised sheet, film rod, tube, profile shapes and foam (c)	..	196	36.6	110
			..	363
General chemicals (d)	Mn.cu.ft.		Mn.cu.ft.	
Inorganic (including inorganic gases)				
Oxygen	2,104	1,369	34,597	9,715
	..	4,142	..	..
Sulphuric acid			..	1,210
Phosphoric acid			..	38
Other	..	1,786	..	3,776
Organic (including organic gases)				258
Other (eg mixtures of inorganic and organic chemicals)				225

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)	Th.tons	£'000	Th.tons	£'000
Fluxes and fettling materials	428	6,739	390	5,618
Moulding and core sand and binders		(e)	..	4,772
Refractories	..	19,178	..	24,471
Water		(e)	..	2,370
Lubricating oils and greases	Th.gal. 3,700	927	Th.gal. 6,597	2,062
	Th.cwt. 175	261	Th.cwt. 177	932
	..	731	..	212
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement				
Tyres and other spare parts for firms' own road goods vehicles	..	52,995	..	467
Other			..	53,877
All other materials for use in production	..	32,411	..	51,628
Packaging materials	Th.cu.ft.		Th.cu.ft.	
Timber (sawn or planed) for manufacture into packing cases, etc	1,169	297	609	362
	..	197	..	60
Jute and hessian piece goods, sacks and bags	..	230	..	117
All other packaging materials	..	3,556	..	4,662
Fuel and electricity (f)	Th.tons		Th.tons	
Coal	1,743	9,722	628	3,709
Coke (including coke for use in blast furnaces) coke screenings and manufactured fuel	9,387	81,166	9,712	93,028
Derv fuel and motor spirit for use in road vehicles	3,050	489	4,156	857
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	784,997	30,281	861,404	37,141
Gas	Th.therms		Th.therms	
Blast furnace gas	175,078	4,036	328,206	9,390
Coke oven gas	331,973	7,981	405,485	9,388
Other (including town gas)	108,751	5,760	102,989	5,806
Electricity	Th.kWh 6,269,508	28,525	Th.kWh 8,282,117	44,568
All other fuels		(e)	..	3,143
Total cost of materials and fuel		846,256		1,042,654
Goods purchased for merchanting		12,029		12,211
Canteen purchases		2,214		2,361
Total cost of purchases		860,499		1,057,226

(a) For 1963 leathercloth and reinforced plastics were not specifically excluded.

(b) For 1963 described as 'Resins, solutions, emulsions, dispersions, moulding and extrusion compounds'.

(c) For 1963 foil was specifically included.

(d) For 1963 described as 'Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc)'.

(e) Not recorded separately for 1963.

(f) The total quantity of electricity generated in establishments employing 25 or more persons in this industry was 2,292,180 Th.kWh in 1968 and 3,534,212 Th.kWh in 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	1968
Average number mainly employed on transport	No.	1,524	2,262
Transport costs			
Wages and salaries	£'000	1,281	2,498
Derv fuel and motor spirit	"	489	857
Tyres and other spare parts for road goods vehicles	"	..	467
Payments to other organisations for transport	{ by road by rail and other means excluding postal services	{ 28,623	{ 19,522 11,048
Costs of operating road goods vehicles			
Insurance	"	51	77
Vehicle licences	"	73	198
Depreciation	"	331	1,166
Payments to other organisations for repairs and maintenance	"	144	251
Total	"	30,992(a)	36,084

(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 payable	
	1963	1968
Repairs and maintenance to	£'000	£'000
Buildings	3,232	1,692
Road goods vehicles	144	251
Plant, machinery and other capital equipment	10,317	22,774
Insurance, licensing and depreciation of road goods vehicles (b)	455	1,442
Rates, excluding water rates	10,172	16,055
Hire of plant and machinery	2,610	6,560
Postage, telephone, telegrams, cables and telex (c)	1,243	1,658
Total	28,172	50,431

(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.

(c) Excluding telex for 1963.

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)	0.3	0.1
May	1.2	0.2
June	8.3	1.9
July	6.5	5.0
August	0.6	0.1
September	30.2	69.7
October	1.2	0.1
November	0.6	0.1
December	24.6	16.0
1969		
January	0.9	0.5
February	2.2	0.2
March	21.5	5.8
April (b)	1.9	0.3
	100	100

(a) From 6 April.

(b) To 5 April.

STATE OF TEXAS
COUNTY OF [illegible]

Year ended	Amount	Year ended	Amount
1916	100.00	1915	100.00
1917	100.00	1914	100.00
1918	100.00	1913	100.00
1919	100.00	1912	100.00
1920	100.00	1911	100.00
1921	100.00	1910	100.00
1922	100.00	1909	100.00
1923	100.00	1908	100.00
1924	100.00	1907	100.00
1925	100.00	1906	100.00
1926	100.00	1905	100.00
1927	100.00	1904	100.00
1928	100.00	1903	100.00
1929	100.00	1902	100.00
1930	100.00	1901	100.00
1931	100.00	1900	100.00
1932	100.00	1899	100.00
1933	100.00	1898	100.00
1934	100.00	1897	100.00
1935	100.00	1896	100.00
1936	100.00	1895	100.00
1937	100.00	1894	100.00
1938	100.00	1893	100.00
1939	100.00	1892	100.00
1940	100.00	1891	100.00
1941	100.00	1890	100.00
1942	100.00	1889	100.00
1943	100.00	1888	100.00
1944	100.00	1887	100.00
1945	100.00	1886	100.00
1946	100.00	1885	100.00
1947	100.00	1884	100.00
1948	100.00	1883	100.00
1949	100.00	1882	100.00
1950	100.00	1881	100.00
1951	100.00	1880	100.00
1952	100.00	1879	100.00
1953	100.00	1878	100.00
1954	100.00	1877	100.00
1955	100.00	1876	100.00
1956	100.00	1875	100.00
1957	100.00	1874	100.00
1958	100.00	1873	100.00
1959	100.00	1872	100.00
1960	100.00	1871	100.00
1961	100.00	1870	100.00
1962	100.00	1869	100.00
1963	100.00	1868	100.00
1964	100.00	1867	100.00
1965	100.00	1866	100.00
1966	100.00	1865	100.00
1967	100.00	1864	100.00
1968	100.00	1863	100.00
1969	100.00	1862	100.00
1970	100.00	1861	100.00
1971	100.00	1860	100.00
1972	100.00	1859	100.00
1973	100.00	1858	100.00
1974	100.00	1857	100.00
1975	100.00	1856	100.00
1976	100.00	1855	100.00
1977	100.00	1854	100.00
1978	100.00	1853	100.00
1979	100.00	1852	100.00
1980	100.00	1851	100.00
1981	100.00	1850	100.00
1982	100.00	1849	100.00
1983	100.00	1848	100.00
1984	100.00	1847	100.00
1985	100.00	1846	100.00
1986	100.00	1845	100.00
1987	100.00	1844	100.00
1988	100.00	1843	100.00
1989	100.00	1842	100.00
1990	100.00	1841	100.00
1991	100.00	1840	100.00
1992	100.00	1839	100.00
1993	100.00	1838	100.00
1994	100.00	1837	100.00
1995	100.00	1836	100.00
1996	100.00	1835	100.00
1997	100.00	1834	100.00
1998	100.00	1833	100.00
1999	100.00	1832	100.00
2000	100.00	1831	100.00
2001	100.00	1830	100.00
2002	100.00	1829	100.00
2003	100.00	1828	100.00
2004	100.00	1827	100.00
2005	100.00	1826	100.00
2006	100.00	1825	100.00
2007	100.00	1824	100.00
2008	100.00	1823	100.00
2009	100.00	1822	100.00
2010	100.00	1821	100.00
2011	100.00	1820	100.00
2012	100.00	1819	100.00
2013	100.00	1818	100.00
2014	100.00	1817	100.00
2015	100.00	1816	100.00
2016	100.00	1815	100.00
2017	100.00	1814	100.00
2018	100.00	1813	100.00
2019	100.00	1812	100.00
2020	100.00	1811	100.00
2021	100.00	1810	100.00
2022	100.00	1809	100.00
2023	100.00	1808	100.00
2024	100.00	1807	100.00
2025	100.00	1806	100.00
2026	100.00	1805	100.00
2027	100.00	1804	100.00
2028	100.00	1803	100.00
2029	100.00	1802	100.00
2030	100.00	1801	100.00
2031	100.00	1800	100.00
2032	100.00	1799	100.00
2033	100.00	1798	100.00
2034	100.00	1797	100.00
2035	100.00	1796	100.00
2036	100.00	1795	100.00
2037	100.00	1794	100.00
2038	100.00	1793	100.00
2039	100.00	1792	100.00
2040	100.00	1791	100.00
2041	100.00	1790	100.00
2042	100.00	1789	100.00
2043	100.00	1788	100.00
2044	100.00	1787	100.00
2045	100.00	1786	100.00
2046	100.00	1785	100.00
2047	100.00	1784	100.00
2048	100.00	1783	100.00
2049	100.00	1782	100.00
2050	100.00	1781	100.00
2051	100.00	1780	100.00
2052	100.00	1779	100.00
2053	100.00	1778	100.00
2054	100.00	1777	100.00
2055	100.00	1776	100.00
2056	100.00	1775	100.00
2057	100.00	1774	100.00
2058	100.00	1773	100.00
2059	100.00	1772	100.00
2060	100.00	1771	100.00
2061	100.00	1770	100.00
2062	100.00	1769	100.00
2063	100.00	1768	100.00
2064	100.00	1767	100.00
2065	100.00	1766	100.00
2066	100.00	1765	100.00
2067	100.00	1764	100.00
2068	100.00	1763	100.00
2069	100.00	1762	100.00
2070	100.00	1761	100.00
2071	100.00	1760	100.00
2072	100.00	1759	100.00
2073	100.00	1758	100.00
2074	100.00	1757	100.00
2075	100.00	1756	100.00
2076	100.00	1755	100.00
2077	100.00	1754	100.00
2078	100.00	1753	100.00
2079	100.00	1752	100.00
2080	100.00	1751	100.00
2081	100.00	1750	100.00
2082	100.00	1749	100.00
2083	100.00	1748	100.00
2084	100.00	1747	100.00
2085	100.00	1746	100.00
2086	100.00	1745	100.00
2087	100.00	1744	100.00
2088	100.00	1743	100.00
2089	100.00	1742	100.00
2090	100.00	1741	100.00
2091	100.00	1740	100.00
2092	100.00	1739	100.00
2093	100.00	1738	100.00
2094	100.00	1737	100.00
2095	100.00	1736	100.00
2096	100.00	1735	100.00
2097	100.00	1734	100.00
2098	100.00	1733	100.00
2099	100.00	1732	100.00
2100	100.00	1731	100.00

Subscribed and sworn to before me this 1st day of January, 1917.

Notary Public in and for the State of Texas.