

58 Mining machinery

This Report on the Mining Machinery Industry relates to establishments engaged wholly or mainly in manufacturing mining machinery and parts thereof including boring and cutting machinery, underground conveyors, screening, washing and other machinery for mines.

This industry corresponds to minimum list heading 339(1) 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 formed part of the Miscellaneous (Non-electrical) Machinery Industry (Part 49) in the Reports on the last detailed Census of Production for 1963, but the treatment of parts has been altered considerably for 1968 for this and other mechanical engineering industries. The distinction made in the 1963 reports between parts sold in association with the sale of complete machines, and other parts sold, has been discontinued for 1968 and all parts are now treated in the same way as complete machines for classification, ie, as principal products of their respective mechanical engineering industries and shown in Table 5.

Throughout this Report, the figures given for 1963 have been reclassified, as far as possible, according to the Standard Industrial Classification (Revised 1968) and to take account of the different treatment of parts adopted for 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.

METHOD OF CLASSIFICATION

In classifying returns to this industry the value of unspecified work done (other than structural and installation work), including repair work, was not taken into account unless it amounted to 80 per cent. or more of the total output of the return in which case the return was classified to General Mechanical Engineering (Part 66). 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. The standard classification procedure as outlined in the notes on page (i) 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 50 to 66) but where the sales of the principal products of the industry concerned (including parts) 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 General Mechanical Engineering Industry (Part 66).

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).

LIST OF TABLES

Table No.	Title	Page
SECTION I - Estimates for all establishments in the industry		
1	Industry summary, 1963 and 1968	58/3
2	Analysis by size of establishment within the industry, 1968	58/4
3	Percentage analysis of employees, by age and sex, 1969	58/5
SECTION II - Analysis of returns received		
4	Analysis of larger establishments, 1963 and 1968	58/6
5	Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968	58/7
6	Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968	58/8
7	Sales of other than principal products by larger establishments in the industry, 1963 and 1968	58/9
8	Production of certain principal products of the industry by larger establishments, 1963 and 1968	DOES NOT APPLY
9	Purchases by larger establishments of selected principal products of the industry, 1968	DOES NOT APPLY
10	Purchases by larger establishments in the industry, 1963 and 1968	58/11
11	Transport costs and employment of larger establishments, 1963 and 1968	58/14
12	Payments for certain services, etc by larger establishments, 1963 and 1968	58/14
13	Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968	58/15

Footnotes continued from page 58/3.

(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.	94	98	
Number of establishments	"	112	128	
Gross output	£'000	71,950	102,185	
Net output	"	31,906	44,203	
Net output per head	£	1,576	1,958	
Sales and work done	£'000	goods produced and work done (c)	65,913	95,663
		merchanted goods and canteen takings	3,960	7,693
Purchases	"	materials for use in production and packaging and fuel	31,014	45,698
		goods for merchandising and canteen purchases	3,197	6,376
Payments to other organisations	"	for work done on materials given out	5,151	4,845
		for transport	558	670
		by road		
	"	by rail and other means excluding postal services		82
Stocks and work in progress	"	+ 1,953	- 1,483	
Total stocks and work in progress	"	change during year	22,691	32,908
		at end of year		
Goods on hand for sale	"	change during year	+ 661	+ 533
		at end of year	6,092	8,778
Work in progress	"	change during year	+ 1,416	- 1,704
		at end of year	10,222	13,214
Materials, stores and fuel	"	change during year	- 124	- 311
		at end of year	6,378	10,916
Number employed on average during the year	Th.	total, including working proprietors	20.2	22.6
		operatives	14.1	15.0
		other employees (d)	6.1	7.5
Wages and salaries	£'000	of operatives	10,184	15,064
		of other employees (d)	5,770	9,380
Capital expenditure (e)	"	1,850	2,268	
Total	"	689	344	
New building work	"	- 21	- 475	
Land and existing buildings (f)	"	1,015	2,174	
Plant and machinery (f)	"	167	225	
Vehicles (f)	"			

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 4 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for 2 per cent. For 1963 the comparable figures were 3 per cent. and 2 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	26	38
Average number employed:		
Working proprietors	14	37
Other persons employed	221	421

Footnotes continued on page 58/2.

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
	Number	Number	Number	£'000	£'000	£
1-5	7	7	24	..	..	..
6-10	9	9	72	..	..	..
11-24	22	20	362	..	..	..
25-49	15	13	561	2,707	1,206	2,149
50-99	21	16	1,488	6,572	2,897	1,947
100-199	20	19	2,977	13,505	5,614	1,886
200-299	9	9	2,276	8,561	4,228	1,857
300-399	5	4	1,860	9,011	4,283	2,303
400-499	6	6	2,688	11,731	5,112	1,902
500-749	7	6	4,221	19,809	8,373	1,984
750 and over	5	4	5,632	26,323	10,770	1,912
Unsatisfactory returns	2	2	409	..	..	..
Total	128	98	22,570	102,185(c)	44,203(c)	1,958(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	426	126	452	167	1,060	1,322
50-99	1,116	352	1,088	470	975	1,334
100-199	2,032	942	2,054	1,240	1,011	1,316
200-299	1,476	800	1,401	998	949	1,247
300-399	1,265	594	1,406	785	1,111	1,322
400-499	1,785	899	1,857	1,121	1,040	1,247
500-749	2,489	1,732	2,509	2,080	1,008	1,201
750 and over	3,838	1,794	3,741	2,179	975	1,215
Unsatisfactory returns	..	..	..	..	..	..
Total	14,985(c)	7,510(c)	15,064(c)	9,380(c)	1,005(c)	1,249(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	3	1	4
18 and over	80	16	96
All ages	83	17	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the 'Other machinery' industries - minimum list heading 339 - 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. For both 1968 and 1963 these amounted to 3 establishments.
- (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) Direct sales of goods (excluding canteen takings) made to and work done for, the general public by larger establishments are included. These amounted to £4,000 in 1968. Similar information is not available for 1963.
- (d) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (e) Progress payments received for work in progress in 1968 from United Kingdom customers were recorded as £5,056,000 at the beginning of year and £3,091,000 at the end of year, and from overseas customers £700,000 at the beginning of year and £642,000 at end of year. Similar information is not available for 1963.
- (f) Administrative, technical and clerical employees.
- (g) Excluding expenditure for establishments not yet in production.

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.	66	63	
Number of establishments	"	84	91	
Gross output	£'000	70,080	98,509	
Net output	"	31,077	42,613	
Net output per head	£	1,576	1,958	
Sales and work done	{ goods produced and work done (b) (c)	£'000	64,201	92,222
	{ merchanted goods and canteen takings	"	3,857	7,416
Index of specialisation (d)	Per cent.	85	82	
Purchases	{ materials for processing and packaging, and fuel	£'000	30,208	44,054
	{ goods for merchenting and canteen purchases	"	3,114	6,147
Payments to other organisations	{ for work done on materials given out	"	5,017	4,671
	{ for transport	"	544	646
	{ by road	"		
Stocks and work in progress	{ by rail and other means excluding postal services	"	79	
	{ change during year	"	+ 643	+ 513
Goods on hand for sale	{ at end of year	"	5,933	8,463
Work in progress (e)	{ change during year	"	+ 1,379	- 1,643
	{ at end of year	"	9,956	12,738
Materials, stores and fuel	{ change during year	"	- 120	- 300
	{ at end of year	"	6,212	10,523
Number employed on average during the year	{ total, including working proprietors	No.	19,719	21,758
	{ operatives	"	13,787	14,469
	{ other employees (f)	"	5,913	7,252
Wages and salaries	{ of operatives	£'000	9,922	14,545
	{ of other employees (f)	"	5,622	9,058
Wages and salaries per head	{ operatives	£	720	1,005
	{ other employees (f)	"	951	1,249
Capital expenditure (g)				
New building work	£'000	671	331	
Land and existing buildings	{ acquisitions	"	65	31
	{ disposals	"	86	489
Plant and machinery	{ acquisitions	"	1,074	2,177
	{ disposals	"	86	81
Vehicles	{ acquisitions	"	267	378
	{ disposals	"	104	161

For notes to this table - see page 58/5.

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	Enterprises	Entries
Winding machinery (excluding portable power tools)	Number	£'000	Number	£'000	Number	Number
Coal cutters, power operated						
Complete machines	387	1,674	257	1,399	6	7
Parts	..	3,649	..	4,254	25	28
Conveyors, underground						
Complete machines	1,447	5,885	1,248	6,502	17	17
Parts	..	4,956	..	12,892	47	49
Power loaders (including cutter loaders)						
Complete machines	605	3,932	718	4,940	7	8
Parts	..	5,107	..	6,465	12	13
Winding machinery (a)						
Complete machines	..	1,024	..	775	5	5
Parts	..	502	..	375	14	14
Hauling engines (stationary)						
Complete	{ 716	{ 928	{ 553	{ 672	{ *	{ *
Parts	..	182	..	543	6	6
Coal preparation plant						
Complete	..	4,010	..	5,863	12	13
Parts	..	2,084	..	1,207	37	39
Other and unclassified						
Complete	..	19,714	..	18,155	49	55
Parts	..	6,463	..	17,796	81	88
Other products	..	32	..	364	5	5
Waste products						
Scrap metals	Th.tons		Th.tons			
Iron and steel	..	169	22.1	196	34	38
Brass	0.2	21	..	61	11	13
Other scrap metals and waste products	..	20	..	24	13	23
Machinery and plant erected and installed	..	2,996	..	1,353	7	7
Total		63,789		83,837	..	..
Sales in other industries (see Table 6)		9,282		7,786	..	..
Principal products of this industry sold by establishments in the industry		54,507		76,051	63	71(b)

(a) For 1963 described as 'Winding machinery, including skip plant'.

(b) 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		
	Value	Value	Entries	Principal industries in which produced (a)
Mining machinery (excluding portable power tools)	£'000	£'000	Number	
Coal cutters, power operated, parts	548	313	13	61,63,66,82
Conveyors, underground, complete machines and parts	997	1,033	25	46,55,56,64
Winding machinery, complete machines and parts	506	417	13	63,64,71,80
Coal preparation plant, complete and parts	2,193	2,145	34	52,56,64,66
Other and unclassified mining machinery, complete and parts	4,440	3,790	85	(b)
Mining machinery erected and installed	598	89	*	
Total	9,282	7,786	..	

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

(b) Production is widely distributed.

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
	£'000	£'000
Castings in the rough or machined	59	132
Agricultural machinery (other than tractors)		
Complete	52	30
Parts	27	51
Pumps, valves and compressors		
Complete	721	1,446
Parts	78	149
Construction and earth moving equipment		
Complete	443	1,011
Parts	276	402
Mechanical handling equipment		
Complete	1,888	1,205
Parts		1,024
Space heating, ventilating and air-conditioning equipment, complete and parts	10	210
Other machinery except electrical machinery		
Complete	1,120	525
Parts		169
Industrial (including process) plant and steelwork		
Fabricated iron and steelwork	561	1,073
Industrial plant, complete and parts	592	1,535
Other and unclassified engineering products	423	1,343
Metal-working machine tools and engineers' small tools and gauges, complete and parts	466	700
Other products	222	1,805
Work done		
Building and civil engineering work carried out in Great Britain including the erection of constructional steelwork and the erection and installation of air-conditioning, heating and ventilating plant, but not of complete process plant	565	125
Research and development work done for customers, including Government Departments, for which payment is receivable	77	49
Repair and jobbing work	1,848	2,627
Other work done	233	506
Services rendered to other organisations (a)	33	55
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	3,739	7,256
Canteen takings	118	160
Total	13,550	23,587

(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.

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				
Pig iron, including refined pig iron and other irons for re-melting	..	110	2.4	57
Castings	9.2	1,142	9.9	1,282
Steel				
Ingots, blooms, billets, slabs (including sheet/plate mill slabs and sheet bars)	0.2	10	11.1	785
Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares	58.5	2,825	74.6	4,311
Plates, 3mm. thick and over	26.9	1,341	63.9	3,324
	..	169		
Sheets under 3mm. thick (including electrical sheets)	6.8	328	0.4	26
			..	99
Hoop and strip (including tape of all thicknesses)	2.1	100	2.2	124
Forgings (except drop forgings)	3.0	479	4.3	689
Castings	10.4	1,856	12.2	2,255
Drop forgings	9.5	1,362	8.4	1,560
Iron and steel not elsewhere specified except finished parts, wire and scrap				
Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc)	..	2,033	20.6	1,908
			..	648
Other	6.4	609	..	805
Precision chain (eg transmission and timing)	..	96	..	73
Springs, laminated and other types	..	127	..	213
Steel wire and wire manufactures (excluding insulated wires and cables)				
Wire (single wire)	..	1	..	401
Wire manufactures (including wire cables and ropes and stranded wire of two or more ply)	..	57	..	49
Ferro-alloys	..	4	..	10
Iron and steel scrap	..	33	..	24
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap				
Aluminium and aluminium alloys	0.5	73	..	72
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper) (a)	0.9	319	..	461
Copper (including cadmium copper) (b)				
Lead and alloys of lead (excluding solder)	..	171	..	169
Zinc and alloys of zinc				
General chemicals (c)				
Inorganic (including inorganic gases)			..	47
Organic (including organic gases)	..	57	..	14
Other (eg mixtures of inorganic and organic chemicals)			..	13

Continued on next page.

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)		£'000	Th.gal.	£'000
Paint and varnish (including lacquers and stains)	..	96	148	163
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)	..	19	..	13
Refractory materials	..	7	..	11
Manufactures wholly or mainly of rubber (including synthetic rubber), balata and gutta-percha, including sheeting, but excluding replacement parts for firms' own machinery, plant, vehicles, etc	..	854	..	1,350
Timber	Th.stds.			
Softwood, sawn or planed but not further prepared or manufactured	{ 0.1 ..	{ 16 5	{ ..	{ 9
Hardwood, sawn or planed, but not further prepared or manufactured	{ 4.2 ..	{ 3 1	{ 2.1 ..	{ 3 1
Plywood, including blockboard, laminboard and battenboard	Th.sq.ft. 25.2	2	Th.sq.ft. 28.2	3
Asbestos in all forms (including finished parts)	..	14	..	22
Other thermal insulating materials	..	35	..	12
Insulated wires, cables, strips and strands	..	66	..	63
Bolts, rivets, nuts and washers, screws, nails, tacks, etc	..	501	..	864
Machinery and plant bought for installation and erection (excluding capital items)	..	1,920	..	2,529
Purchased components for incorporation in firms' own products				
Ball and roller bearings and parts thereof	..	733	..	1,070
Electric motors				
Of less than 1 h.p.	..	3	..	16
Of 1 h.p. and over	..	752	..	538
Internal combustion engines	..	87	Number 440	121
Industrial valves	..	329	..	999
Gears and gear wheels of metal	..	465	..	614
Pumps	..	376	..	945
Measuring instruments and gauges and parts				
Industrial process measuring and control instruments and equipment	..	34	..	257
Other	..	232	..	678
Plastics goods moulded and fabricated	..	18	..	55
Other components not elsewhere specified (excluding those of rubber and asbestos)	..	4,938	..	9,042
Lubricating oils and greases (including cutting oils and emulsions)	Th.gal. { 239 ..	{ 65 45	Th.gal. { 320 Th.cwt. 1.8	{ 106 9

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)		£'000		£'000
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	{ ..	{ 718	{ ..	{ 31
Other	{ ..	{ ..	{ ..	{ 747
All other materials for use in production	..	3,584	..	2,833
Packaging materials				
Paper and board				
Boxes, cartons, drums and canisters (with or without metal ends) of paper, cardboard and fibreboard	..	11	..	27
Timber				
Containers wholly or mainly of wood (including plywood boxes and drums) baskets and wickerwork crates	..	49	..	78
Timber (sawn or planed) for manufacture into packing cases, etc	{ 81.7 ..	{ 25 9	{ 103	{ 42
All other packaging materials	..	14	..	40
Fuel and electricity (d)	Th.tons		Th.tons	
Coal	13.3	74	20.5	129
Coke (including screenings) and manufactured fuel	6.7	66	3.4	34
Derv fuel and motor spirit for use in road vehicles	{ 404 ..	{ 89 14	{ 995	{ 230
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	{ 1,295 ..	{ 55 11	{ 1,526	{ 78
Gas	{ 1,407 ..	{ 105 23	{ 2,544	{ 209
Electricity	{ 61,457 ..	{ 351 94	{ 61,240 ..	{ 504 142
All other fuels	..	(e)	..	20
Total cost of materials and fuel		30,208		44,054
Goods purchased for merchanting		2,976		5,968
Canteen purchases		138		179
Total cost of purchases		33,322		50,200

(a) For 1963 cadmium copper was not specifically excluded.

(b) For 1963 cadmium copper was not specifically included but blister was excluded.

(c) For 1963 described as 'Heavy chemicals'.

(d) The total quantity of electricity generated in establishments employing 25 or more persons in this industry was 20 Th.kWh in 1963. None was recorded for 1968.

(e) Not recorded separately 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	1968
Average number mainly employed on transport	No.	226	246
Transport costs			
Wages and salaries	£'000	175	279
Derv fuel and motor spirit	"	103	230
Tyres and other spare parts for road goods vehicles	"	..	31
Payments to other organisations for transport	by road	544	646
Costs of operating road goods vehicles			
Insurance	"	13	21
Vehicle licences	"	11	27
Depreciation	"	68	102
Payments to other organisations for repairs and maintenance	"	47	42
Total	"	961(a)	1,457

(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	121	179
Road goods vehicles	47	42
Plant, machinery and other capital equipment	259	301
Insurance, licensing and depreciation of road goods vehicles (b)	93	150
Rates, excluding water rates	278	486
Hire of plant and machinery	58	189
Postage, telephone, telegrams, cables and telex (c)	202	351
Total	1,058	1,698

(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)	1.4	0.2
May	4.2	1.5
June	5.6	1.7
July	4.2	1.7
August	2.8	0.7
September	15.5	17.8
October	4.2	9.3
November	1.4	0.5
December	31.1	21.2
1969		
January	5.6	4.1
February	1.4	0.2
March	19.8	40.7
April (b)	2.8	0.4
	100	100

(a) From 6 April.

(b) To 5 April.

REPORT OF THE COMMISSIONER OF THE STATE DEPARTMENT OF AGRICULTURE AND HORTICULTURE FOR THE YEAR 1911

Item	Quantity	Value
Wheat	1,200,000 bushels	\$1,200,000
Barley	500,000 bushels	\$500,000
Oats	1,000,000 bushels	\$1,000,000
Rye	200,000 bushels	\$200,000
Timothy	1,000,000 bushels	\$1,000,000
Alfalfa	500,000 tons	\$500,000
Hay	1,000,000 tons	\$1,000,000
Stocks	1,000,000 head	\$1,000,000
Land	1,000,000 acres	\$1,000,000
Buildings	1,000,000 sq. ft.	\$1,000,000
Tools	1,000,000 units	\$1,000,000
Other	1,000,000 units	\$1,000,000
Total		\$10,000,000

Summary of the above table showing the total value of the products of agriculture and horticulture in Michigan for the year 1911.

Category	Value
Grains	\$3,000,000
Forage	\$2,000,000
Stocks	\$1,000,000
Land	\$1,000,000
Buildings	\$1,000,000
Tools	\$1,000,000
Other	\$1,000,000
Total	\$10,000,000

The above table shows the total value of the products of agriculture and horticulture in Michigan for the year 1911. The total value is \$10,000,000.