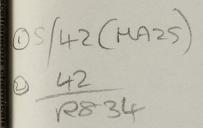
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Business Monitor

Report on the Census of Production

Pharmaceutical chemicals and preparations

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Government Statistical Service

A service of statistical information and advice is provided to the Government by specialist staffs employed in the statistics division of individual Departments. Statistics are made generally available through their publications and further information and advice on them can be obtained from the Departments concerned.

Enquiries:

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Report on the Census of Production 1978

Pharmaceutical chemicals and preparations

Presented by the Secretary of State for Industry to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo.6 Cha.39 sec 7)

Department of Industry Business Statistics Office



List of Industry Reports, etc.

PA1001	Introductory notes
PA101	Coal mining
PA102	Stone and slate quarrying and mining
PA103	Chalk, clay, sand and gravel extraction
PA104	Petroleum and natural gas
PA109	Miscellaneous mining and quarrying
PA211	Grain milling
PA212	Bread and flour confectionery
PA213	Biscuits
PA214	Bacon curing, meat and fish products
PA215	Milk and milk products
PA216	Sugar
PA217	Cocoa, chocolate and sugar confectionery
PA218	Fruit and vegetable products
PA219	Animal and poultry foods
PA221	Vegetable and animal oils and fats
PA229.1	Margarine
PA229.2	
PA231	Brewing and malting
PA232	Soft drinks
PA239.1	
PA239.2	British wines, cider and perry
PA240	Tobacco
PA261	Coke ovens and manufactured fuel
PA262	Mineral oil refining
PA263	Lubricating oils and greases
PA271.1	
PA271.2	Organic chemicals
PA271.3	Miscellaneous chemicals
PA272	Pharmaceutical chemicals and preparations
PA273	Toilet preparations
PA274	Paint
PA275	
	Soap and detergents
PA276	Synthetic resins and plastics materials and
	synthetic rubber
DADTT	
PA277	Dyestuffs and pigments
PA278	Fertilizers
PA279.1	Polishes
PA279.2	
PA279.3	Explosives and fireworks
PA279.4	
PA279.5	
PA279.6	Surgical bandages, etc.
PA279.7	Photographic chemical materials
PA311	Iron and steel (general)
PA312	Steel tubes
PA312	Steel tubes
PA313	Iron castings, etc.
PA313 PA321	Iron castings, etc. Aluminium and aluminium alloys
PA313 PA321 PA322	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys
PA313 PA321 PA322 PA 323	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals
PA313 PA321 PA322	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys
PA313 PA321 PA322 PA 323 PA331	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors)
PA313 PA321 PA322 PA 323 PA331 PA332	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools
PA313 PA321 PA322 PA323 PA331 PA332 PA333.1	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps
PA313 PA321 PA322 PA 323 PA331 PA332	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools
PA313 PA321 PA322 PA323 PA331 PA332 PA333.1 PA333.2	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves
PA313 PA321 PA322 PA323 PA331 PA332 PA333.1 PA333.2 PA333.3	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment
PA313 PA321 PA322 PA323 PA331 PA332 PA333,1 PA333,2 PA333,3 PA334	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines
PA313 PA321 PA322 PA323 PA331 PA332 PA333.1 PA333.2 PA3333 PA3334 PA335	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment
PA313 PA321 PA322 PA323 PA331 PA332 PA333.1 PA333.2 PA3333 PA3334 PA335	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories
PA313 PA321 PA322 PA323 PA331 PA332 PA333,1 PA333,2 PA333,3 PA334 PA335 PA336	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3333 PA334 PA335 PA336 PA337	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment
PA313 PA321 PA322 PA323 PA331 PA332 PA333,1 PA333,2 PA333,3 PA334 PA335 PA336	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment
PA313 PA321 PA322 PA323 PA331 PA332 PA333.1 PA333.2 PA333.3 PA334 PA335 PA336 PA337 PA338	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3333 PA334 PA335 PA336 PA336 PA337 PA338 PA339.1	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Mining machinery
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3332 PA3335 PA336 PA337 PA338 PA339.1 PA339.2	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Mining machinery Printing, bookbinding and paper goods machinery
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3333 PA334 PA335 PA336 PA336 PA337 PA338 PA339.1	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Mining machinery Printing, bookbinding and paper goods machinery
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3332 PA3335 PA336 PA337 PA338 PA339.1 PA339.2	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Mining machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating,
PA313 PA321 PA322 PA323 PA331 PA332 PA333,1 PA333,2 PA333,3 PA334 PA335 PA336 PA336 PA337 PA338 PA339,1 PA339,2 PA339,3	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3332 PA3335 PA336 PA337 PA338 PA339.1 PA339.2	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Mining machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable
PA313 PA321 PA322 PA323 PA331 PA332 PA333,1 PA333,2 PA333,3 PA334 PA335 PA336 PA336 PA337 PA338 PA339,1 PA339,2 PA339,3	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3332 PA335 PA336 PA337 PA339.1 PA339.2 PA339.5	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Mining machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools
PA313 PA321 PA322 PA323 PA331 PA332 PA333,1 PA333,2 PA333,3 PA334 PA335 PA336 PA336 PA337 PA338 PA339,1 PA339,2 PA339,3	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery and
PA313 PA321 PA322 PA323 PA331 PA332 PA333,1 PA333,2 PA333,2 PA334 PA335 PA336 PA337 PA339,1 PA339,2 PA339,5 PA339,7	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery and packaging and bottling machinery
PA313 PA321 PA322 PA323 PA331 PA332 PA333,1 PA333,2 PA333,2 PA334 PA335 PA336 PA337 PA339,1 PA339,2 PA339,5 PA339,7	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery and packaging and bottling machinery
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PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3332 PA333 PA335 PA336 PA337 PA339.1 PA339.2 PA339.5 PA339.7 PA339.9 PA339.7	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3332 PA333 PA334 PA335 PA336 PA337 PA339.1 PA339.2 PA339.3 PA339.5 PA339.7 PA339.9 PA331 PA339.9	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork Ordnance and small arms
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3332 PA333 PA335 PA336 PA337 PA339.1 PA339.2 PA339.5 PA339.7 PA339.9 PA339.7	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork Ordnance and small arms
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3333 PA334 PA335 PA336 PA336 PA337 PA339,1 PA339,3 PA339,3 PA339,5 PA339,7 PA339,7 PA339,9 PA339,7 PA339,9 PA341 PA342 PA349,1	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings
PA313 PA321 PA322 PA323 PA331 PA332 PA333 PA334 PA333 PA334 PA335 PA336 PA336 PA3391 PA339.2 PA339.3 PA339.5 PA339.7 PA339.7 PA339.9 PA341 PA342 PA349.1 PA349.2	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Mining machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and other mechanical engineering
PA313 PA321 PA322 PA323 PA331 PA332 PA331 PA332 PA333, PA332 PA333, PA335 PA336 PA337 PA339,1 PA339,2 PA339,3 PA339,7 PA337,7	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and document copying equipment
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PA313 PA321 PA322 PA323 PA331 PA332 PA333 PA334 PA3332 PA3332 PA333 PA334 PA335 PA336 PA337 PA339.1 PA339.2 PA339.3 PA339.5 PA339.7 PA339.9 PA341 PA342 PA341 PA342 PA351 PA352	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and other mechanical engineering Photographic and document copying equipment Watches and clocks
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3333 PA334 PA335 PA336 PA337 PA338 PA339,1 PA339,2 PA339,3 PA339,5 PA339,7 PA335,7 PA339,7 PA335,7 PA35,7 PA35,7 PA35,7 PA35,7 PA35,7 PA35,7 PA35,7 PA35,7 PA35,7 PA35,7 PA35,7 PA35,7 PA3	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and other mechanical engineering Photographic and document copying equipment Watches and clocks Surgical instruments and appliances
PA313 PA321 PA322 PA323 PA331 PA332 PA333 PA334 PA3332 PA333 PA334 PA335 PA336 PA339 PA339.1 PA339.2 PA339.3 PA339.5 PA339.7 PA339.7 PA339.9 PA339.7 PA339.9 PA341 PA342 PA351 PA352 PA353 PA354	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and other mechanical engineering Photographic and document copying equipment Watches and clocks
PA313 PA321 PA322 PA323 PA331 PA332 PA333 PA334 PA3332 PA333 PA334 PA335 PA336 PA339 PA339.1 PA339.2 PA339.3 PA339.5 PA339.7 PA339.7 PA339.9 PA339.7 PA339.9 PA341 PA342 PA351 PA352 PA353 PA354	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and other mechanical engineering Photographic and document copying equipment Watches and clocks Surgical instruments and appliances Scientific and industrial instruments and systems
PA313 PA321 PA322 PA323 PA331 PA332 PA333 PA333 PA333 PA334 PA335 PA336 PA337 PA339.1 PA339.2 PA339.3 PA339.5 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA351 PA351 PA352 PA353 PA354 PA354	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and other mechanical engineering Photographic and document copying equipment Watches and clocks Surgical instruments and appliances Scientific and industrial instruments and systems Electrical machinery
PA313 PA321 PA322 PA323 PA331 PA332 PA331 PA332 PA333,1 PA332 PA333,2 PA333,2 PA335 PA336 PA337 PA339,1 PA339,2 PA339,3 PA339,5 PA339,7 PA339,9 PA341 PA342 PA349,1 PA349,2 PA351 PA352 PA353 PA354 PA354 PA361 PA362	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Miscellaneous (non-electrical) machinery Miscellaneous (non-electrical) machinery Miscellaneous (non-electrical) machinery Miscellaneous (non-electrical) machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and other mechanical engineering Photographic and document copying equipment Watches and clocks Surgical instruments and appliances Scientific and industrial instruments and systems Electrical machinery Insulated wires and cables
PA313 PA321 PA322 PA323 PA331 PA332 PA333 PA333 PA333 PA334 PA335 PA336 PA337 PA339.1 PA339.2 PA339.3 PA339.5 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA351 PA351 PA352 PA353 PA354 PA354	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and other mechanical engineering Photographic and document copying equipment Watches and clocks Surgical instruments and appliances Scientific and industrial instruments and systems Electrical machinery
PA313 PA321 PA322 PA323 PA331 PA332 PA331 PA332 PA333,1 PA332 PA333,2 PA333,2 PA335 PA336 PA337 PA339,1 PA339,2 PA339,3 PA339,5 PA339,7 PA339,9 PA341 PA342 PA349,1 PA349,2 PA351 PA352 PA353 PA354 PA354 PA361 PA362	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and other mechanical engineering Photographic and document copying equipment Watches and clocks Surgical instruments and appliances Scientific and industrial instruments and systems Electrical machinery Insulated wires and cables Telegraph and telephone apparatus and
PA313 PA321 PA322 PA323 PA331 PA332 PA3331 PA3332 PA3332 PA333 PA336 PA337 PA339.1 PA339.2 PA339.3 PA339.5 PA339.7 PA339.7 PA339.7 PA339.7 PA339.7 PA349.2 PA351 PA352 PA353 PA354 PA361 PA362 PA363	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and other mechanical engineering Photographic and document copying equipment Watches and clocks Surgical instruments and appliances Scientific and industrial instruments and systems Electrical machinery Insulated wires and cables Telegraph and telephone apparatus and equipment
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PA313 PA321 PA322 PA323 PA331 PA332 PA333 PA334 PA3332 PA3332 PA333 PA334 PA335 PA336 PA337 PA339.3 PA339.5 PA339.5 PA339.7 PA339.9 PA341 PA342 PA349.1 PA349.2 PA351 PA352 PA353 PA354 PA361 PA362 PA363 PA364 PA365.1	Iron castings, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys Miscellaneous base metals Agricultural machinery (except tractors) Metal-working machine tools Pumps Valves Compressors and fluid power equipment Industrial engines Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment Office machinery Printing, bookbinding and paper goods machinery Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools Food and drink processing machinery Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings Precision chains and other mechanical engineering Photographic and document copying equipment Watches and clocks Surgical instruments and appliances Scientific and industrial instruments and systems Electrical machinery Insulated wires and cables Telegraph and telephone apparatus and equipment
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PA369.1	Electrical equipment for motor vehicles, cycles
PA260 2	and aircraft Primary and secondary batteries
PA369.2 PA369.4	Primary and secondary batteries Electric lamps, electric light fittings, wiring accessories, etc.
PA370	Shipbuilding and marine engineering
PA380 PA381.1	Wheeled tractor manufacturing Motor vehicle manufacturing
PA381.2	Trailers, caravans and freight containers
PA382	Motor cycle, tricycle and pedal cycle manufacturing
PA383 PA384	Aerospace equipment manufacturing and repairing Locomotives, railway track equipment, railway carriages, wagons and trams
PA390	Engineers' small tools and gauges
PA391 PA392	Hand tools and implements Cutlery, spoons, forks and plated tableware, etc.
PA392 PA393	Bolts, nuts, screws, rivets, etc.
PA394	Wire and wire manufactures
PA395 PA396	Cans and metal boxes Jewellery and precious metals
PA399.1	Metal furniture
	Drop forgings, etc. Metal hollow-ware
	Miscellaneous metal manufacture
PA411	Production of man-made fibres
PA412 PA413	Spinning and doubling on the cotton and flax systems Weaving of cotton, linen and man-made fibres
PA414	Woollen and worsted
PA415	Jute Rope, twine and net
PA416 PA417.1	Hosiery and other knitted goods
PA417.2	Warp knitting
PA418 PA419	Lace Carpets
PA421	Narrow fabrics
PA422.1 PA422.2	
PA422.2 PA423	Textile finishing
	Asbestos
PA429.2 PA431	Miscellaneous textile industries Leather (tanning and dressing) and fellmongery
PA432	Leather goods
PA433	Fur Westbergreef outerweer
PA441 PA442	Weatherproof outerwear Men's and boys' tailored outerwear
PA443	Women's and girls' tailored outerwear
PA444 PA445	Overalls and men's shirts, underwear, etc. Dresses, lingerie, infants' wear, etc.
PA446	Hats, caps and millinery
PA449.1 PA449.2	
PA450	Footwear
PA461.1	Refractory goods
PA461.2 PA462	Building bricks and non-refractory goods Pottery
PA463	Glass
PA464	Cement
PA469.1 PA469.2	Abrasives Miscellaneous building materials and mineral products
PA471	Timber
PA472 PA473	Furniture and upholstery Bedding, etc.
PA474	Shop and office fitting
PA475 PA479	Wooden containers and baskets Miscellaneous wood and cork manufactures
PA481	Paper and board
PA482.1	Cardboard boxes, cartons and fibre-board packing cases
PA482.2 PA483	Packaging products of paper and associated materials Manufactured stationery
PA484.1	Wallcoverings
PA484.2 PA485	Miscellaneous manufactures of paper and board Printing, publishing of newspapers and periodicals
PA489	General printing and publishing
PA491	Rubber
PA492 PA493	Linoleum, plastics floor-covering, leathercloth, etc. Brushes and brooms
PA494.1	Toys, games and children's carriages
PA494.3 PA495	Sports equipment Miscellaneous stationers' goods
PA496	Plastics products
PA499.1	Musical instruments
PA499.2 PA500	Miscellaneous manufacturing industries Construction
PA601	Gas
PA602 PA603	Electricity Water supply
PA1002	

PA272 PHARMACEUTICAL CHEMICALS AND PREPARATIONS

The information in this report relates to establishments classified to the Pharmaceutical chemicals and preparations industry, minimum list The information in this report rolates to establishments classified to the managed teal chemicals and prepare heading 272 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing products for therapeutic and prophylactic use (including veterinary) and chemicals for compounding into such products, including the same chemicals when used subsequently as additives to foods and drinks.

> In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page (iii).

LIST OF CONTENTS

Table No	Title
1	Output and costs, 1974–1978
2	Capital expenditure, 1974-1978
3	Stocks and work in progress, 1974–1978
4	Analysis of establishments by size, 1978
5	Regional distribution of employment, net capital expenditure, net output at factor cost, 1978
6	Percentage analysis of twelve-month periods covered by returns received for Kingdom establishments, 1978
7	Percentage analysis of employees, by full and part-time employment and

Operating ratios, 1977-1978 8

and gross value added

Page

6

om United

sex, 1977

Output and costs, 1974-1978

All United Kingdom establishments classified to the industry (a)

	Unit	1974	1975	1976	1977	1978
Enterprises	Number	296	286	294	281	266
Establishments		326	324	326	309	293
Sales of goods produced	£ thousand	757,578	928,773	1,112,915	1,390,084	1,659,189
Receipts for work done and industrial ervices rendered	·· ·	(b)	(Ь)	4,451	5,069	9,829
Capital goods produced for establish- nents' own use	"	4,703	9,730	7,936	9,648	13,788
Ion-industrial services rendered	"	5,233	6,174	9,240	9,033	11,114
Goods merchanted or factored	"	69,376	69,148	93,956	131,519	137,304
Total sales and work done (c)	"	836,890	1,013,825	1,228,498	1,545,353	1,831,225
ncrease during the year, work in rogress and goods on hand for sale	"	51,018	40,438	29,768	60,250	40,517
Gross output	"	887,908	1,054,263	1,258,266	1,605,603	1,871,742
urchases of materials for use in pro- uction, and packaging and fuel	,,	401,040	441,387	516,325	621,680	754,473
urchases of goods for merchanting or actoring	"	57,685	54,048	81,069	98,220	116,861
ncrease during the year, stocks of naterials, stores and fuel	"	43,044	2,912	20,855	14,608	37,968
cost of industrial services received	"	15,954	17,374	18,196	23,411	29,984
xcise payments, etc. (net)	"	(d)	(d)	(d)	(d)	-414
Net output	"	456,273	544,368	663,532	876,901	1,008,806
otal employment (d)	Thousands	66.3	66.4	64.8	65.6	66.6
Net output per head	£	6,829	8,194	10,234	13,374	15,140
ayments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	3,263	5,242	2,903	6,248	7,099
Bents of industrial and commercial buildings	"	(f)	(f)	3,057	2,966	3,733
Commercial insurance premiums	"	3,909	4,391	5,341	6,633	9,602
Bank charges	"	418	547	435	537	646
Other non-industrial services	"	56,355	72,389	83,093	114,201	132,207
icensing of motor vehicles	"	185	219	258	289	381
ates, excluding water rates		4,949	6,399	7,836	8,575	9,144
Gross value added at factor cost	"	387,194	455,181	560,609	737,452	845,993
Gross value added at factor cost per head	£	5,796	6,851	8,647	11,247	12,696
por fieldu	-	0,750	0,001	0,047	. 1,247	12,000

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 94 per cent of employment within the industry.

(b) Included in sales of goods produced.

(c) Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PO272.

(d) Included in purchases of materials.

(e) Average number employed, including full and part-time employees (see table 7) and working proprietors.

For 1974 and 1975 rents of industrial and commercial buildings were not recorded separately, but included in hire of vehicles, plant and (f) machinery.

2

PA272

TABLE 2

 $_{\mbox{Capital}}$ expenditure, 1974—1978 All United Kingdom establishments classified to the industry (a)(b)

The second secon	1974	1975	1976
Land and buildings			
New building work	19,043	23,783	17,978
Land and existing buildings			
Acquisitions	1,497	863	1,794
Disposals	79	253	1,812
Vehicles			
Acquisitions	3,594	3,866	4,950
Disposals	1,155	1,513	2,102
Plant and machinery			
Acquisitions	31,614	45,888	46,101
Disposals	306	445	879
Total net capital expenditure	54,208	72,190	66,030

a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

(b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.

(c) Included in land and existing buildings acquisitions.

TABLE 3

Stocks and work in progress, 1974-1978 All United Kingdom establishments classified to the industry (a)

	1974	1975	1976	1977	1978		
	Intel Canada 295,001 (HILBERT	Increase	100.0000000	1996 - Albana 1995	Value at end of year	
Materials, stores and fuel	43,044	2,912	20,855	14,608	37,968	192,473	
Work in progress	19,032	20,286	18,961	29,422	21,733	171,679	
Goods on hand for sale	31,986	20,152	10,807	30,828	18,784	152,346	
Total	94,062	43,350	50,623	74,858	78,485	516,498	

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

PA272

	£ thousand
1977	1978
100	APPEN AND AND AND AND AND AND AND AND AND AN
21,496	33,157
4,527	3,711
1,072	(c)
6,960	7,739
2,491	2,873
59,492	84,169
1,225	1,451
87,686	124,452

TABLE 4

Analysis of establishments by size, 1978 All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab- lish- ments	Enter- prises (c)	Employme	Employment			Wages and salaries (f)				
			Total	al Opera- tives	Others (e)	Operatives		Others (e)	Others (e)		
			(d)	lives		Total	per head	Total	per head		
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£		
1-10	137	135	596)								
11–19	31	30	441)								
20-49	24	24) 789)	2,369	1,464	6,310	2,664	5,822	3,977		
50—99	31	31) 2,213)								
100-199	16	16	2,205	1,370	834	3,482	2,541	3,676	4,408		
200–299	11	11	2,657	1,432	1,218	4,019	2,807	5,068	4,161		
300-499	13	12	4,817	2,311	2,506	6,499	2,812	11,273	4,498		
500749	11	10	6,679	3,585	3,094	13,967	3,896	15,583	5,037		
750—999	3	3	2,536	1,164	1,372	3,343	2,872	6,536	4,764		
1,000—1,499	5	5	5,354	2,350	3,004	8,695	3,700	14,796	4,925		
1,500—2,999	6	6	12,151	5,968	6,183	23,167	3,882	31,249	5,054		
3,000 and over	5	5	26,196	12,775	13,421	43,985	3,443	65,122	4,852		

Total	293	266	66,634	33,324	33,096	113,468	3,405	159,126	4,808	1,831,225	1,871,742
(a)	Including estimates	for establishme	nts not making s	atisfactory re	turns, non-resp	oonse and estab	lishments not	selected for the	e Census.		e cost of employers' c
(a)											imated for the i

(b) Average number employed, including full and part-time employees (see table 7) and working proprietors.

4

(c) The sum of the figures for the size groups may exceed the total for the industry because some enterprises control establishments in

more than one size group. (d) Including working proprietors.

(e) Administrative, technical and clerical employees.

Total sales and work done (g)	Gross output	Net output		Gross value added at factor cost		Net capital expenditure (h)	Total stocks and work in progress at end of year
		Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
83,631	85,124	42,911	10,624	(j)	(j)	4,628	20,439
45,551	46,422	22,444	10,179	50,281(j)	8,053(j)	2,276	13,155
107,940	109,232	41,943	15,786	35,042	13,188	11,113	42,970
132,703	134,839	73,509	15,260	58,362	12,116	3,586	32,499
215,218	220,958	108,487	16,243	92,634	13,869	14,093	66,030
66,754	67,811	40,735	16,063	21,733	8,570	2,611	14,116
191, 968	194,888	103,467	19,325	85,968	16,057	15,282	50,521
310,964	318,402	166,4 2 9	13,697	136,693	11,250	23,659	89,006
676,496	694,065	408,880	15,608	365,281	13,944	47,204	187,761

(15)	The cost of everlapped	/ sentributions to notional insurance	populana and welfare schome

504403

1,008,806

employers' contributions to national insurance, pensions and welfare schemes and the running costs of canteens, is or the industry at £52,769 thousand.

Sales of goods produced, capital goods manufactured and buildings constructed by establishments for their own use, work done, industrial and non-industrial services rendered and merchanted goods. (q)

5

845,993

15,140

(h) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

(j) Gross value added data relate to establishments employing 1-199.

293



PA272

12,696

124,452

516,498

TABLE 5

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1978 All United Kingdom establishments classified to the industry (a)

Area Total employment (b)		: (b)	Net capital expenditure	(c)	Net output (d)	Gross value added at factor cost	Gross value added at factor cost returned by establishments with
						(d)	80 per cent or more of their employment in the region as a proportion of total gross value added at factor cost in the
		Contraction of the second					region
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentage
Standard regions of England							
North	5.4	8.2	8,049	6.5	85,733	80,755	29.5
Yorkshire and Humberside	3.0	4.4	6,211	5.0	29,937	17,834	56.9
East Midlands	6.0	9.0	14,981	12.0	75,045	62,748	78.6
East Anglia	*	*	*	*	*	*	*
South East	30.2	45.4	55,095	44.3	458,681	380,081	62.1
South West	1.3	2.0	4,373	3.5	23,568	18,058	79.0
West Midlands	*	*	*	*	*	*	*
North West	13.8	20.7	20,435	16.4	237,060	196,650	67.6
	15:85 200		经期间指 的	766.97	1.000	1998 - 1999 - 1998 B	/
England	61.0	91.5	110,679	88.9	924,231	768,098	/
Wales	2.0	3.1	2,086	1.7	34,366	32,283	38.3
Scotland	3.5	5.3	11,392	9.2	49,609	45,213	38.0
Great Britain	66.6	99.9	124,157	99.8	1,008,205	845,595	/
Northern Ireland	0.1	0.1	295	0.2	600	398	4.4
United Kingdom	66.6	100.0	124,452	100.0	1,008,806	845,993	/

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

Average number employed, including full and part-time employees (see table 7) and working proprietors. (b)

New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery. (c)

Where a census return covered addresses in two or more regions, an estimate of the net output attributable to each address was made by assuming that net output was proportionate to employment. An estimate for each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost is treated similarly. (d)

6

TABLE 6

PA272

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1978

Account	ting year ended	Percentage of total retur	ns received
	ALTER STATES	per cent	A BALLY PROPERTY OF
1978	April (a)	4.0	
	May	4.0	
	June	8.9	
	July	2.0	
	August	1.0	
	September	3.0	
	October	4.0	
	November	8.9	
	December	49.5	
1979	January	2.0	
	February		
	March (b)	12.9	

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1979.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1977(a)

Sex	Full-time	Part-time
	per cent	per cent
Male	56	1
Female	35	8

The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at mid-June, 1977. (a)

7

Percentage	of total number employed
per cent	an and the second second and
1.1	
0.4	
15.4	
0.9	
8.4	
1.2	
4.9	
9.0	
51.1	
0.4	
7.3	

per cent			
57			
43			

Source: Department of Employment

TABLE 8

Operating ratios, 1977-1978

All United Kingdom establishments classified to the industry (a)

	Unit	. 1977	1978
Gross output per head	£	24,488	28,090
Net output per head	£	13,374	15,140
Gross value added per head	£	11,247	12,696
Gross value added as a percentage of gross output	%	46	45
Ratio of gross output to stocks		3.8	3.6
Wages and salaries as a percentage of gross value added	%	31	32
Ratio of operatives to administrative, technical and clerical employees		1.1	1.0
Wages and salaries per administrative, technical and clerical employee	£	4,130	4,808
Wages and salaries per operative	£	3,005	3,405
Net capital expenditure per head	£	1,337	1,868
Net capital expenditure as a percentage of gross value added	%	12	15

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

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PA272

ese notes give the main information needed for interpreting figures in the industry Business Monitors: more detailed mation about the census is given in a separate Business PA 1001 (Introductory Notes) of the Report on the sus of Production, 1978.

ENERAL INFORMATION

anges made for 1978

Census for 1978 is in line with similar inquiries being ucted in other member countries of the European Economic unities

census differed from earlier censuses in three respects. ling was introduced for establishments employing 20 to 49 d a sample of smaller units was selected. A new question on leasing of capital assets was included for 1978 only. This will de register information for use in related inquiries into leasing.

poression of information relating to individual undertakings ion 9(5)(b) of the Statistics of Trade Act 1947 states he following provisions shall have effect with respect to any port, summary or other communication to the public of mation obtained under the foregoing provisions of this Act n compiling any such report, summary or communication the competent authority shall so arrange it as to prevent any particulars published therein from being identified as being particulars relating to any individual person or undertaking except with the previous consent in writing of that person or the person carrying on that undertaking, as the case may be; but his provision shall not prevent the disclosure of the total quantity or value of any articles produced, sold or delivered; so, owever, that before disclosing any such total the competent authority shall have regard to any representations made to them by any person who alleges that the disclosure thereof would enable particulars relating to him or to an undertaking carried on by him to be deduced from the total disclosed". a figure involved disclosure the contributor concerned was etimes asked to give permission for its publication. In the ority of cases permission was given. When it was refused and ere contributors were not approached the figure has been pressed, either by combining it with other figures, or as in the onal tables, by omitting the figure altogether.

mbols used

he following symbols are used throughout the PA series of siness Monitors:

not available

il or less than half the final digit shown figures cannot be shown owing to the risk of disclosing formation about individual enterprises. revised

unding of figures

gures in the tables have, where necessary, been rounded to the rest final digit. Where figures have been so rounded, the sum the constituent items may not always agree exactly with the tal shown

ustrial classification

United Kingdom Standard Industrial Classification (SIC) was issued in 1948 and was subsequently revised in 1958 and 968. It exists to promote uniformity and comparability in the a statistics of the United Kingdom. The general principles wed are those of the International Standard Industrial sification of all Economic Activities of the United Nations tistical Office but the United Kingdom SIC reflects the nisation and structure of industry and trade as it exists in the ted Kingdom. The SIC is a classification by activity and is a commodity classification. However, an index of all commodity adings for which sales data are provided in the Quarterly Business itors, is published in Business Monitor PQ 1000.

istical units

estatistical unit for the purpose of the Census is the establishment ch is defined in the SIC as the smallest unit which can provide information normally required for an economic census, for

example, employment, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (eg steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address eg a mine or a factory, including those which are ancillary to the principal activities. Frequently distinct activities characteristic of different industries are carried on at one address, but normally these are not classified separately and the whole establishment is classified according to the main activity. If, however, the required range of data can be provided for each activity, each is taken to constitute a separate establishment. Sometimes activities which are conducted as a single business are carried on at a number of addresses. Where this is so, businesses are asked to provide the full range of information in respect of each address, whether or not the activities are different. Their activities may, however, be integrated to such an extent that they constitute a single establishment. In the latter case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained of employment and net capital expenditure at each unit in order to compile regional tables. Efforts are made by the Business Statistics Office (BSO) to ensure, by negotiating with respondents, that the return from an establishment does not cover local units in more than one of the countries of the United Kingdom.

activities in their return. establishments.

THE REGISTER

Coverage

register.

In recent censuses returns have been required from all establishments employing 20 or more. For the 1978 Census in 68 selected manufacturing industries coverage of establishments in the 20 to 49 employment size band has been reduced to a 1 in 2 sample. This change has relieved some 5,800 firms of the need to complete a census return. The Census has included for the first time a small sample (around 10 per cent) of units employing 11 to 19 to meet an EEC requirement to collect a limited range of data from smaller units every 5 years.

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production eg merchanting, transport, warehousing, for which they keep a separate set of accounts. Transfers of goods produced to such departments are treated as sales and respondents are asked to value them as far as possible as if sold to an independent purchaser. Where separate accounts are not kept they are asked to include details of all these

Particulars relating to head offices mainly engaged in the administration of the production units within the scope of the census were included. Where more than one return was made the information in respect of the head office was apportioned among them.

For certain purposes in the annual censuses of production (especially the enterprise analyses of Business Monitor PA 1002) related establishments are combined. An enterprise group is defined as a business consisting of either a single establishment or two or more establishments under common ownership or control. Bringing together establishments into enterprise groups is also necessary for the purpose of ensuring that there will be no disclosure of the activities of any one enterprise group. Information about the relationship of establishments, the changing structure of groups of companies and about common ownership links is obtained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual

The register permits a questionnaire to be sent direct to the reporting establishment on which the latter can include information relating to all the manufacturing (or local) units which it comprises. The inquiries provide a major source of information for keeping the register continuously up-to-date and act as a check on its detail and structure. For the establishments on the register making returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data are entered on the register from returns to the annual census of production. In cases where an establishment does not make a return to these inquiries the employment data are based on information provided by the Department of Employment from the annual censuses of employment. New additions to the register are obtained from various sources including the Department of Employment and HM Customs and Excise. The 1973 Finance Act allows the latter to pass lists of businesses registered for VAT to the BSO. Where necessary details are sought directly from new businesses. Units which cease to trade are removed from the live

The regions defined in Table 5 take account of the boundary changes arising out of the Local Government Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in April 1974 in England and Wales and May 1975 in Scotland

TERMS USED IN THE CENSUS REPORT

Average number employed

Establishments were required to state the average number of persons on the payroll during the year of return. Separate figures were required for

administrative, technical and clerical employees (a)

(b)all other employees (operatives)

Averages could be calculated from the figures relating to the last week of each calendar month. Establishments were also required to state the number of working proprietors where appropriate and these are included in total employment figures. Full-time and part-time employees are included but outworkers (ie persons employed by establishments who worked in their own homes etc on materials supplied by the establishment) are excluded. The figures include persons engaged on merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

Working proprietors

These include all persons regarded as "self-employed" for national insurance purposes and members of their families who worked in the business without receiving a wage or salary; but such persons who worked less than half the normal number of working hours are excluded. Directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading: directors paid by fee only are not included.

Employees

Administrative, technical and clerical employees include directors in receipt of a definite wage, salary or commission, managers and works foremen; research and design employees (other than operatives); draughtsmen, editorial staff, advertising staff, travellers and all office employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include operatives employed in power stations, transport (including roundsmen), warehouses, stores, shops and canteens, inspectors, maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc are also included, but outworkers are excluded.

Capital expenditure

Capital expenditure during the year in respect of manufacturing units where production had not started before the end of the year is included. Establishments were asked not to deduct from the value of capital expenditure amounts received or expected to be received in grants or allowances from the Government or any statutory body or local authority. Establishments with 100 or more employees were asked to include a total net capital expenditure figure for each calendar year and to state whether any of the investment shown in cost of new building work, vehicles or plant and machinery included goods for letting out on hire or leasing.

(a) New building work

This represents the cost incurred during the year of new building and other constructional work to be used in connection with the business covered by the return. The value is that charged to capital account during the year of return; it includes expenditure on new buildings and on the extension or reconstruction of old buildings, the value of works of a capital nature carried out by the establishment's own staff and the cost of any newly constructed buildings purchased. Figures shown include legal charges, stamp duties, agents' commissions, etc.

(b) Land and existing buildings

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

(c) Plant, machinery and vehicles

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plan and machinery acquired includes plant, etc which firms produced for their own use in connection with the business covered by the return. The value of plant, etc acquired is the expenditure charger to capital account during the year of return less any discount received, but including the cost of transport and installation Deductible value added tax is excluded but non-deductible value added tax on motor cars acquired is included. No deduction made for depreciation, amortization or obsolescence. The process of items disposed of during the year exclude amounts written.o. for items scrapped.

Cost of industrial services

This includes amounts payable to other firms for work done of materials supplied by the establishment, payments for repairs and maintenance (including those in respect of rented buildings and amounts paid to other firms for contracts which have been sublet. Payments to outworkers are excluded.

Cost of non-industrial services

This includes rents of industrial and commercial buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amount paid for professional services, post office services, transport (within the United Kingdom), advertising etc. Amounts payable on rovalties for the right to use patents, trademarks, copyrights etc, man ufacturing and quarrying rights and technical "know-how" are also included

Gross output

In the calculation of gross output the value of total sales and work done is increased by the rise (or reduced by the fall) during the year in the value of work in progress and goods on hand for sale

Net output

Net output, a customary census measure, is calculated by deducting from gross output the cost of purchases (reduced by the rise, of increased by the fall, during the year of stocks of materials etcl and the cost of industrial services received, and where applicable, duties etc

Net output per head

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

Gross value added at factor cost

Gross value added at factor cost is calculated by deducting from net output the cost of non-industrial services ea rent of buildings hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services post office services, transport (within the United Kingdom) and advertising, rates (excluding water rates) and the cost of licensing motor vehicles. This estimate of gross value added approaches more closely than census net output to the definition of net output or value added in nationa accounts statistics

Gross value added at factor cost per head

The figures of gross value added at factor cost per head are derived by dividing the gross value added by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Purchases

Purchases include the cost of raw materials, components, semimanufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by

stomers; and of food, etc for any canteen covered by the stablishment's return. Transfers of goods to the establishment m another department of the same firm not covered by the atablishment's return are included at a cost corresponding to the atimated selling value recorded by the other department. Amounts navable to transport firms or credited to the firm's own transport denartment for delivery of materials are excluded, as are all urchases of machinery and plant charged to capital account. urchases of goods for merchanting or factoring have been llected separately since 1973. The values shown exclude VAT. hey include, in addition to the actual purchase price, the value f packaging material charged to the establishment. The value of urned goods or packaging material returned to suppliers and any rade discounts are excluded. Materials purchased duty-paid are luded at their duty-paid value, less any drawback, rebate, etc. e cost of transport is included only if it is included with the rchase price in the firm's accounts. Imported goods are included their full delivered cost. If in the firm's accounts the transport mdocks or airport is not included in the cost of goods purchased, the cost is entered at cif plus duty (if applicable). Leasing, enting and hire purchase charges are excluded.

Sales of goods produced

ales for the purposes of the annual censuses means deliveries on ale of goods made by establishments in the United Kingdom vered by the inquiry. Sales of goods made for these establishments outworkers or by other establishments from materials given out them and sales of waste products are included. New building work and machinery or other capital items produced by establishments for hiring out or leasing are regarded as sales, the value included in the return being that adopted in the establishments' apital asset accounts. Forward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of hen the goods were manufactured. Goods produced in one establishment and transferred either to ancillary departments not engaged in production for which there are separate accounts, or to nother establishment of the same firm not covered by the return, re treated as sales by the producing establishment and valued as ar as possible as if they had been sold to an independent purchaser. oods transferred to wholesale or retail selling organisations, for hich separate accounts are kept are valued on the same basis. the value shown for sales is the "net selling value" defined as the amount (excluding VAT) charged to customers whether on an

ex-works or delivered basis, after any trade discounts and agents' missions have been deducted. The cost of packing materials allowance for returnable cases is included. In industries where roducts attract Excise Duty the value stated is usually inclusive f duty if sold duty-paid and exclusive of duty if sold in bond r exported

Receipts for work done and industrial services rendered

igures for work done represent the amount charged for work arried out on materials supplied by a customer and include repair ork. Within certain industries this heading covers a wide variety of ctivities, for example, within the food sector - butter packed on mission; within the textile industries - making up of garments, r dressing and textile finishing; within printing and publishing reparatory work on type-setting, block making and binding. Work one is also significant in the electrical machinery and heavy ineering industries, covering erection, installation and repair and bbing work. Other activities within this heading include exploration ork, research and development, glass cutting and dressing and planing of timber

dustrial services rendered include repairs and maintenance, instaation work, and technical research and studies for other ganisations

Capital goods produced for establishments' own use

his includes all work of a capital nature carried out during the year by the establishments' own staff for their own use.

This includes rents received for commercial and industrial buildings, amounts charged for hiring out plant, machinery and vehicles and other goods and amounts charged to other organisations for the provision of transport. It also includes amounts received for the right to use patents, trademarks, copyrights etc, manufacturing and quarrying rights and technical "know-how" and revenue from such staff facilities as canteens.

Values are given of stocks of goods on hand for sale and of materials stores and fuel at the end of the year of return and of the change during the year, including any stocks of goods held for merchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used. Progress payments made to subcontractors are excluded and progress payments received from other organisations are not deducted.

Wages and salaries These are amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions etc. The value of redundancy payments less any amounts reimbursed from Government sources is included. The value of any payments in kind, travelling expenses etc is included

Remuneration paid to outworkers The remuneration paid to outworkers (ie persons employed by the establishment who do their work in their own homes) is generally on a niece-work basis. Only amounts paid to outworkers whose names appear on the establishment's payroll are included. Amounts paid to outworkers by sub-contractors are excluded.

Employers' insurance and welfare contributions This item includes employers' contributions to national insurance under the Social Security Pensions Act, 1975 as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability or death benefits for employees or former employees or their dependants. Contributions to the running costs of canteens, social centres, children's and holiday homes, etc for employees, former employees and their dependants are also included.

Operating ratios

Goods merchanted or factored Merchanted goods are those (excluding canteen sales) sold without Stocks and work in progress

Non-industrial services rendered

having been subjected to any manufacturing process by the seller

The operating ratios shown were obtained by dividing the estimate of the industry total for the quantity shown in the numerator by the corresponding estimate for the quantity shown in the denominator. These estimates cover all establishments classified to each industry, including not selected establishments and non-respondents. Within an industry, it is possible to compare ratios for an individual firm with the ratios shown for the relevant industry. However, it is important to bear in mind that various factors may affect the results - for example, differences in definitions, treatment of depreciation (which is not identified in the census data) and varying practice with regard to stock valuation, may affect comparability in some respects.

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