

APPENDIX E

SECTOR-TO-LAND-USE MAPPING

To translate jobs by economic sector to jobs by land use, we make assumptions about which sectors (industries) are based in different types of employment space. The lists below show the industries which we associate with industrial space, warehouses and offices respectively. Economic sectors are defined by the Standard Industrial Classification (SIC) 2007.

Industrial sectors

- 10110 : Processing and preserving of meat
- 10120 : Processing and preserving of poultry meat
- 10130 : Production of meat and poultry meat products
- 10200 : Processing and preserving of fish, crustaceans and molluscs
- 10310 : Processing and preserving of potatoes
- 10320 : Manufacture of fruit and vegetable juice
- 10390 : Other processing and preserving of fruit and vegetables
- 10410 : Manufacture of oils and fats
- 10420 : Manufacture of margarine and similar edible fats
- 10511 : Liquid milk and cream production
- 10512 : Butter and cheese production
- 10519 : Manufacture of milk products (other than liquid milk and cream, butter, cheese) not elsewhere classified
- 10520 : Manufacture of ice cream
- 10611 : Grain milling
- 10612 : Manufacture of breakfast cereals and cereals-based foods
- 10620 : Manufacture of starches and starch products
- 10710 : Manufacture of bread; manufacture of fresh pastry goods and cakes
- 10720 : Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes
- 10730 : Manufacture of macaroni, noodles, couscous and similar farinaceous products
- 10810 : Manufacture of sugar
- 10821 : Manufacture of cocoa, and chocolate confectionery
- 10822 : Manufacture of sugar confectionery
- 10831 : Tea processing
- 10832 : Production of coffee and coffee substitutes
- 10840 : Manufacture of condiments and seasonings
- 10850 : Manufacture of prepared meals and dishes
- 10860 : Manufacture of homogenised food preparations and dietetic food

10890 : Manufacture of other food products not elsewhere classified
10910 : Manufacture of prepared feeds for farm animals
10920 : Manufacture of prepared pet foods
11010 : Distilling, rectifying and blending of spirits
11020 : Manufacture of wine from grape
11030 : Manufacture of cider and other fruit wines
11040 : Manufacture of other non-distilled fermented beverages
11050 : Manufacture of beer
11060 : Manufacture of malt
11070 : Manufacture of soft drinks; production of mineral waters and other bottled waters
12000 : Manufacture of tobacco products
13100 : Preparation and spinning of textile fibres
13200 : Weaving of textiles
13300 : Finishing of textiles
13910 : Manufacture of knitted and crocheted fabrics
13921 : Manufacture of soft furnishings
13922 : Manufacture of canvas goods, sacks etc
13923 : Manufacture of household textiles (other than soft furnishings of 13921)
13931 : Manufacture of woven or tufted carpets and rugs
13939 : Manufacture of carpets and rugs (other than woven or tufted) not elsewhere classified
13940 : Manufacture of cordage, rope, twine and netting
13950 : Manufacture of non-wovens and articles made from non-wovens, except apparel
13960 : Manufacture of other technical and industrial textiles
13990 : Manufacture of other textiles not elsewhere classified
14110 : Manufacture of leather clothes
14120 : Manufacture of workwear
14131 : Manufacture of men's outerwear, other than leather clothes and workwear
14132 : Manufacture of women's outerwear, other than leather clothes and workwear
14141 : Manufacture of men's underwear
14142 : Manufacture of women's underwear
14190 : Manufacture of other wearing apparel and accessories
14200 : Manufacture of articles of fur

14310 : Manufacture of knitted and crocheted hosiery
14390 : Manufacture of other knitted and crocheted apparel
15110 : Tanning and dressing of leather; dressing and dyeing of fur
15120 : Manufacture of luggage, handbags and the like, saddlery and harness
15200 : Manufacture of footwear
16100 : Sawmilling and planing of wood
16210 : Manufacture of veneer sheets and wood-based panels
16220 : Manufacture of assembled parquet floors
16230 : Manufacture of other builders' carpentry and joinery
16240 : Manufacture of wooden containers
16290 : Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials
17110 : Manufacture of pulp
17120 : Manufacture of paper and paperboard
17211 : Manufacture of corrugated paper and paperboard; manufacture of sacks and bags of paper
17219 : Manufacture of paper and paperboard containers other than sacks and bags
17220 : Manufacture of household and sanitary goods and of toilet requisites
17230 : Manufacture of paper stationery
17240 : Manufacture of wallpaper
17290 : Manufacture of other articles of paper and paperboard
18110 : Printing of newspapers
18121 : Manufacture of printed labels
18129 : Printing (other than printing of newspapers and printing on labels and tags) not elsewhere classified
18130 : Pre-press and pre-media services
18140 : Binding and related services
18201 : Reproduction of sound recording
18202 : Reproduction of video recording
18203 : Reproduction of computer media
19100 : Manufacture of coke oven products
19201 : Mineral oil refining
19209 : Other treatment of petroleum products (excluding mineral oil refining and petrochemicals manufacture)

20110 : Manufacture of industrial gases
20120 : Manufacture of dyes and pigments
20130 : Manufacture of other inorganic basic chemicals
20140 : Manufacture of other organic basic chemicals
20150 : Manufacture of fertilisers and nitrogen compounds
20160 : Manufacture of plastics in primary forms
20170 : Manufacture of synthetic rubber in primary forms
20200 : Manufacture of pesticides and other agrochemical products
20301 : Manufacture of paints, varnishes and similar coatings, mastics and sealants
20302 : Manufacture of printing ink
20411 : Manufacture of soap and detergents
20412 : Manufacture of cleaning and polishing preparations
20420 : Manufacture of perfumes and toilet preparations
20510 : Manufacture of explosives
20520 : Manufacture of glues
20530 : Manufacture of essential oils
20590 : Manufacture of other chemical products not elsewhere classified
20600 : Manufacture of man-made fibres
21100 : Manufacture of basic pharmaceutical products
21200 : Manufacture of pharmaceutical preparations
22110 : Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres
22190 : Manufacture of other rubber products
22210 : Manufacture of plastic plates, sheets, tubes and profiles
22220 : Manufacture of plastic packing goods
22230 : Manufacture of builders' ware of plastic
22290 : Manufacture of other plastic products
23110 : Manufacture of flat glass
23120 : Shaping and processing of flat glass
23130 : Manufacture of hollow glass
23140 : Manufacture of glass fibres
23190 : Manufacture and processing of other glass, including technical glassware
23200 : Manufacture of refractory products
23310 : Manufacture of ceramic tiles and flags

23320 : Manufacture of bricks, tiles and construction products, in baked clay
23410 : Manufacture of ceramic household and ornamental articles
23420 : Manufacture of ceramic sanitary fixtures
23430 : Manufacture of ceramic insulators and insulating fittings
23440 : Manufacture of other technical ceramic products
23490 : Manufacture of other ceramic products
23510 : Manufacture of cement
23520 : Manufacture of lime and plaster
23610 : Manufacture of concrete products for construction purposes
23620 : Manufacture of plaster products for construction purposes
23630 : Manufacture of ready-mixed concrete
23640 : Manufacture of mortars
23650 : Manufacture of fibre cement
23690 : Manufacture of other articles of concrete, plaster and cement
23700 : Cutting, shaping and finishing of stone
23910 : Production of abrasive products
23990 : Manufacture of other non-metallic mineral products not elsewhere classified
24100 : Manufacture of basic iron and steel and of ferro-alloys
24200 : Manufacture of tubes, pipes, hollow profiles and related fittings, of steel
24310 : Cold drawing of bars
24320 : Cold rolling of narrow strip
24330 : Cold forming or folding
24340 : Cold drawing of wire
24410 : Precious metals production
24420 : Aluminium production
24430 : Lead, zinc and tin production
24440 : Copper production
24450 : Other non-ferrous metal production
24460 : Processing of nuclear fuel
24510 : Casting of iron
24520 : Casting of steel
24530 : Casting of light metals
24540 : Casting of other non-ferrous metals

25110 : Manufacture of metal structures and parts of structures
25120 : Manufacture of doors and windows of metal
25210 : Manufacture of central heating radiators and boilers
25290 : Manufacture of other tanks, reservoirs and containers of metal
25300 : Manufacture of steam generators, except central heating hot water boilers
25400 : Manufacture of weapons and ammunition
25500 : Forging, pressing, stamping and roll-forming of metal; powder metallurgy
25610 : Treatment and coating of metals
25620 : Machining
25710 : Manufacture of cutlery
25720 : Manufacture of locks and hinges
25730 : Manufacture of tools
25910 : Manufacture of steel drums and similar containers
25920 : Manufacture of light metal packaging
25930 : Manufacture of wire products, chain and springs
25940 : Manufacture of fasteners and screw machine products
25990 : Manufacture of other fabricated metal products not elsewhere classified
26110 : Manufacture of electronic components
26120 : Manufacture of loaded electronic boards
26200 : Manufacture of computers and peripheral equipment
26301 : Manufacture of telegraph and telephone apparatus and equipment
26309 : Manufacture of communication equipment (other than telegraph and telephone apparatus and equipment)
26400 : Manufacture of consumer electronics
26511 : Manufacture of electronic instruments and appliances for measuring, testing, and navigation, except industrial process control equipment
26512 : Manufacture of electronic industrial process control equipment
26513 : Manufacture of non-electronic instruments and appliances for measuring, testing and navigation, except industrial process control equipment
26514 : Manufacture of non-electronic industrial process control equipment
26520 : Manufacture of watches and clocks
26600 : Manufacture of irradiation, electromedical and electrotherapeutic equipment
26701 : Manufacture of optical precision instruments

26702 : Manufacture of photographic and cinematographic equipment
26800 : Manufacture of magnetic and optical media
27110 : Manufacture of electric motors, generators and transformers
27120 : Manufacture of electricity distribution and control apparatus
27200 : Manufacture of batteries and accumulators
27310 : Manufacture of fibre optic cables
27320 : Manufacture of other electronic and electric wires and cables
27330 : Manufacture of wiring devices
27400 : Manufacture of electric lighting equipment
27510 : Manufacture of electric domestic appliances
27520 : Manufacture of non-electric domestic appliances
27900 : Manufacture of other electrical equipment
28110 : Manufacture of engines and turbines, except aircraft, vehicle and cycle engines
28120 : Manufacture of fluid power equipment
28131 : Manufacture of pumps
28132 : Manufacture of compressors
28140 : Manufacture of other taps and valves
28150 : Manufacture of bearings, gears, gearing and driving elements
28210 : Manufacture of ovens, furnaces and furnace burners
28220 : Manufacture of lifting and handling equipment
28230 : Manufacture of office machinery and equipment (except computers and peripheral equipment)
28240 : Manufacture of power-driven hand tools
28250 : Manufacture of non-domestic cooling and ventilation equipment
28290 : Manufacture of other general-purpose machinery not elsewhere classified
28301 : Manufacture of agricultural tractors
28302 : Manufacture of agricultural and forestry machinery (other than agricultural tractors)
28410 : Manufacture of metal forming machinery
28490 : Manufacture of other machine tools
28910 : Manufacture of machinery for metallurgy
28921 : Manufacture of machinery for mining
28922 : Manufacture of earthmoving equipment
28923 : Manufacture of equipment for concrete crushing and screening roadworks

28930 : Manufacture of machinery for food, beverage and tobacco processing
28940 : Manufacture of machinery for textile, apparel and leather production
28950 : Manufacture of machinery for paper and paperboard production
28960 : Manufacture of plastics and rubber machinery
28990 : Manufacture of other special-purpose machinery not elsewhere classified
29100 : Manufacture of motor vehicles
29201 : Manufacture of bodies (coachwork) for motor vehicles (except caravans)
29202 : Manufacture of trailers and semi-trailers
29203 : Manufacture of caravans
29310 : Manufacture of electrical and electronic equipment for motor vehicles
29320 : Manufacture of other parts and accessories for motor vehicles
30110 : Building of ships and floating structures
30120 : Building of pleasure and sporting boats
30200 : Manufacture of railway locomotives and rolling stock
30300 : Manufacture of air and spacecraft and related machinery
30400 : Manufacture of military fighting vehicles
30910 : Manufacture of motorcycles
30920 : Manufacture of bicycles and invalid carriages
30990 : Manufacture of other transport equipment not elsewhere classified
31010 : Manufacture of office and shop furniture
31020 : Manufacture of kitchen furniture
31030 : Manufacture of mattresses
31090 : Manufacture of other furniture
32110 : Striking of coins
32120 : Manufacture of jewellery and related articles
32130 : Manufacture of imitation jewellery and related articles
32200 : Manufacture of musical instruments
32300 : Manufacture of sports goods
32401 : Manufacture of professional and arcade games and toys
32409 : Manufacture of games and toys (other than professional and arcade games and toys) not elsewhere classified
32500 : Manufacture of medical and dental instruments and supplies
32910 : Manufacture of brooms and brushes

32990 : Other manufacturing not elsewhere classified

33110 : Repair of fabricated metal products

33120 : Repair of machinery

33130 : Repair of electronic and optical equipment

33140 : Repair of electrical equipment

33150 : Repair and maintenance of ships and boats

33160 : Repair and maintenance of aircraft and spacecraft

33170 : Repair and maintenance of other transport equipment

33190 : Repair of other equipment

33200 : Installation of industrial machinery and equipment

37000 : Sewerage

38110 : Collection of non-hazardous waste

38120 : Collection of hazardous waste

38210 : Treatment and disposal of non-hazardous waste

38220 : Treatment and disposal of hazardous waste

38310 : Dismantling of wrecks

38320 : Recovery of sorted materials

43210 : Electrical installation

43220 : Plumbing, heat and air-conditioning installation

43290 : Other construction installation

43310 : Plastering

43320 : Joinery installation

43330 : Floor and wall covering

43341 : Painting

43342 : Glazing

43390 : Other building completion and finishing

43910 : Roofing activities

43991 : Scaffold erection

43999 : Specialised construction activities (other than scaffold erection) not elsewhere classified

45200 : Maintenance and repair of motor vehicles

45400 : Sale, maintenance and repair of motorcycles and related parts and accessories

95110 : Repair of computers and peripheral equipment

95120 : Repair of communication equipment

95210 : Repair of consumer electronics

95220 : Repair of household appliances and home and garden equipment

95230 : Repair of footwear and leather goods

95240 : Repair of furniture and home furnishings

95250 : Repair of watches, clocks and jewellery

95290 : Repair of other personal and household goods

Warehouse sectors

46110 : Agents involved in the sale of agricultural raw materials, live animals, textile raw materials and semi-finished goods

46120 : Agents involved in the sale of fuels, ores, metals and industrial chemicals

46130 : Agents involved in the sale of timber and building materials

46140 : Agents involved in the sale of machinery, industrial equipment, ships and aircraft

46150 : Agents involved in the sale of furniture, household goods, hardware and ironmongery

46160 : Agents involved in the sale of textiles, clothing, fur, footwear and leather goods

46170 : Agents involved in the sale of food, beverages and tobacco

46180 : Agents specialised in the sale of other particular products

46190 : Agents involved in the sale of a variety of goods

46210 : Wholesale of grain, unmanufactured tobacco, seeds and animal feeds

46220 : Wholesale of flowers and plants

46230 : Wholesale of live animals

46240 : Wholesale of hides, skins and leather

46310 : Wholesale of fruit and vegetables

46320 : Wholesale of meat and meat products

46330 : Wholesale of dairy products, eggs and edible oils and fats

46341 : Wholesale of fruit and vegetable juices, mineral waters and soft drinks

46342 : Wholesale of wine, beer, spirits and other alcoholic beverages

46350 : Wholesale of tobacco products

46360 : Wholesale of sugar and chocolate and sugar confectionery

46370 : Wholesale of coffee, tea, cocoa and spices

46380 : Wholesale of other food, including fish, crustaceans and molluscs

46390 : Non-specialised wholesale of food, beverages and tobacco

- 46410 : Wholesale of textiles
- 46420 : Wholesale of clothing and footwear
- 46431 : Wholesale of gramophone records, audio tapes, compact discs and video tapes and of the equipment on which these are played
- 46439 : Wholesale of radio and television goods and of electrical household appliances (other than of gramophone records, audio tapes, compact discs and video tapes and the equipment on which these are played) n.e.c.
- 46440 : Wholesale of china and glassware and cleaning materials
- 46450 : Wholesale of perfume and cosmetics
- 46460 : Wholesale of pharmaceutical goods
- 46470 : Wholesale of furniture, carpets and lighting equipment
- 46480 : Wholesale of watches and jewellery
- 46491 : Wholesale of musical instruments
- 46499 : Wholesale of household goods (other than musical instruments) not elsewhere classified
- 46510 : Wholesale of computers, computer peripheral equipment and software
- 46520 : Wholesale of electronic and telecommunications equipment and parts
- 46610 : Wholesale of agricultural machinery, equipment and supplies
- 46620 : Wholesale of machine tools
- 46630 : Wholesale of mining, construction and civil engineering machinery
- 46640 : Wholesale of machinery for the textile industry and of sewing and knitting machines
- 46650 : Wholesale of office furniture
- 46660 : Wholesale of other office machinery and equipment
- 46690 : Wholesale of other machinery and equipment
- 46711 : Wholesale of petroleum and petroleum products
- 46719 : Wholesale of fuels and related products (other than petroleum and petroleum products)
- 46720 : Wholesale of metals and metal ores
- 46730 : Wholesale of wood, construction materials and sanitary equipment
- 46740 : Wholesale of hardware, plumbing and heating equipment and supplies
- 46750 : Wholesale of chemical products
- 46760 : Wholesale of other intermediate products
- 46770 : Wholesale of waste and scrap
- 46900 : Non-specialised wholesale trade

49410 : Freight transport by road

49420 : Removal services

52101 : Operation of warehousing and storage facilities for water transport activities of division 50

52102 : Operation of warehousing and storage facilities for air transport activities of division 51

52103 : Operation of warehousing and storage facilities for land transport activities of division 49

52211 : Operation of rail freight terminals

52212 : Operation of rail passenger facilities at railway stations

52213 : Operation of bus and coach passenger facilities at bus and coach stations

52219 : Other service activities incidental to land transportation, not elsewhere classified (not including operation of rail freight terminals, passenger facilities at railway stations or passenger facilities at bus and coach stations)

52241 : Cargo handling for water transport activities of division 50

52242 : Cargo handling for air transport activities of division 51

52243 : Cargo handling for land transport activities of division 49

53100 : Postal activities under universal service obligation

53201 : Licensed Carriers

53202 : Unlicensed Carriers

82920 : Packaging activities

Office sectors

58110 : Book publishing

58120 : Publishing of directories and mailing lists

58130 : Publishing of newspapers

58141 : Publishing of learned journals

58142 : Publishing of consumer, business and professional journals and periodicals

58190 : Other publishing activities

59111 : Motion picture production activities

59112 : Video production activities

59113 : Television programme production activities

59120 : Motion picture, video and television programme post-production activities

59131 : Motion picture distribution activities

59132 : Video distribution activities

59133 : Television programme distribution activities
59200 : Sound recording and music publishing activities
60100 : Radio broadcasting
60200 : Television programming and broadcasting activities
62011 : Ready-made interactive leisure and entertainment software development
62012 : Business and domestic software development
62020 : Computer consultancy activities
62030 : Computer facilities management activities
62090 : Other information technology and computer service activities
63110 : Data processing, hosting and related activities
63120 : Web portals
63910 : News agency activities
63990 : Other information service activities not elsewhere classified
64110 : Central banking
64191 : Banks
64192 : Building societies
64201 : Activities of agricultural holding companies
64202 : Activities of production holding companies
64203 : Activities of construction holding companies
64204 : Activities of distribution holding companies
64205 : Activities of financial services holding companies
64209 : Activities of other holding companies (not including agricultural, production, construction, distribution and financial services holding companies) n.e.c
64301 : Activities of investment trusts
64302 : Activities of unit trusts
64303 : Activities of venture and development capital companies
64304 : Activities of open-ended investment companies
64305 : Activities of property unit trusts
64306 : Activities of real estate investment trusts
64910 : Financial leasing
64921 : Credit granting by non-deposit taking finance houses and other specialist consumer credit grantors
64922 : Activities of mortgage finance companies

64929 : Other credit granting (not including credit granting by non-deposit taking finance houses and other specialist consumer credit grantors and activities of mortgage finance companies) n.e.c.

64991 : Security dealing on own account

64992 : Factoring

64999 : Other financial service activities, except insurance and pension funding, (not including security dealing on own account and factoring) n.e.c.

65110 : Life insurance

65120 : Non-life insurance

65201 : Life reinsurance

65202 : Non-life reinsurance

65300 : Pension funding

66110 : Administration of financial markets

66120 : Security and commodity contracts brokerage

66190 : Other activities auxiliary to financial services, except insurance and pension funding

66210 : Risk and damage evaluation

66220 : Activities of insurance agents and brokers

66290 : Other activities auxiliary to insurance and pension funding

66300 : Fund management activities

68100 : Buying and selling of own real estate

68201 : Renting and operating of Housing Association real estate

68202 : Letting and operating of conference and exhibition centres

68209 : Letting and operating of own or leased real estate (other than Housing Association real estate and conference and exhibition services) n.e.c.

68310 : Real estate agencies

68320 : Management of real estate on a fee or contract basis

69101 : Barristers at law

69102 : Solicitors

69109 : Activities of patent and copyright agents; other legal activities (other than those of barristers and solicitors) not elsewhere classified

69201 : Accounting, and auditing activities

69202 : Bookkeeping activities

69203 : Tax consultancy

70100 : Activities of head offices

70210 : Public relations and communication activities
70221 : Financial management
70229 : Management consultancy activities (other than financial management)
71111 : Architectural activities
71112 : Urban planning and landscape architectural activities
71121 : Engineering design activities for industrial process and production
71122 : Engineering related scientific and technical consulting activities
71129 : Other engineering activities (not including engineering design for industrial process and production or engineering related scientific and technical consulting activities)
71200 : Technical testing and analysis
72110 : Research and experimental development on biotechnology
72190 : Other research and experimental development on natural sciences and engineering
72200 : Research and experimental development on social sciences and humanities
73110 : Advertising agencies
73120 : Media representation
73200 : Market research and public opinion polling
74300 : Translation and interpretation activities
74901 : Environmental consulting activities
74902 : Quantity surveying activities
74909 : Other professional, scientific and technical activities (not including environmental consultancy or quantity surveying)
77400 : Leasing of intellectual property and similar products, except copyrighted works
78101 : Motion picture, television and other theatrical casting
78109 : Activities of employment placement agencies (other than motion picture, television and other theatrical casting) not elsewhere classified
78200 : Temporary employment agency activities
78300 : Other human resources provision
80100 : Private security activities
80200 : Security systems service activities
80300 : Investigation activities
82110 : Combined office administrative service activities
82190 : Photocopying, document preparation and other specialised office support activities
82200 : Activities of call centres

82301 : Activities of exhibition and fair organizers

82302 : Activities of conference organizers

82911 : Activities of collection agencies

82912 : Activities of credit bureaus

82990 : Other business support service activities not elsewhere classified

84110 : General public administration activities

84120 : Regulation of the activities of providing health care, education, cultural services and other social services, excluding social security

84130 : Regulation of and contribution to more efficient operation of businesses

84210 : Foreign affairs

84300 : Compulsory social security activities

94110 : Activities of business and employers membership organisations

94120 : Activities of professional membership organisations

94200 : Activities of trade unions

94910 : Activities of religious organisations

94920 : Activities of political organisations

94990 : Activities of other membership organisations not elsewhere classified

APPENDIX A

YORKSHIRE FORWARD REPORT

