

Appendix C: Industry and occupation

Industry

The industry categories are based on the 1990 Census Bureau industrial classification scheme. The industry variable on the 1990 basis is not available for the 2015 CPS ASEC data at the Integrated Public Use Microdata Series. As a result the 2014 ASEC was used in the industry analysis. The analysis collapsed the adults' detailed industry into 16 industrial aggregates. The specific industries comprising the 16 industrial composites are as follows (note: n.e.c. refers to "not elsewhere classified"; n.s. refers to "not specified"):

Industry categories

Agriculture and mining

Agricultural production, crops
 Agricultural production, livestock
 Veterinary services
 Landscape and horticultural services
 Agricultural services, n.e.c.
 Forestry
 Fishing, hunting, and trapping
 Metal mining
 Coal mining
 Oil and gas extraction
 Nonmetallic mining and quarrying, except fuels

Construction

All construction

Transportation

Railroads
 Bus service and urban transit
 Taxicab service
 Trucking service
 Warehousing and storage
 U.S. Postal Service
 Water transportation
 Air transportation
 Pipe lines, except natural gas
 Services incidental to transportation

Communications

Radio and television broadcasting and cable
 Wired communications
 Telegraph and miscellaneous communications services

Utilities

Electric light and power
 Gas and steam supply systems
 Electric and gas, and other combinations
 Water supply and irrigation
 Sanitary services
 Utilities, n.s.

Finance, insurance, and real estate

Banking
 Savings institutions, including credit unions
 Credit agencies, n.e.c.
 Security, commodity brokerage, and investment companies
 Insurance
 Real estate, including real estate-insurance offices

Business services

Advertising
 Services to dwellings and other buildings
 Personnel supply services
 Computer and data processing services
 Detective and protective services
 Business services, n.e.c.

Continued on next page

PEW RESEARCH CENTER

Industry categories

Repair services

Automotive rental and leasing, without drivers
 Automobile parking and carwashes
 Automotive repair and related services
 Electrical repair shops
 Miscellaneous repair services

Personal services

Private households
 Hotels and motels
 Lodging places, except hotels and motels
 Laundry, cleaning, and garment services
 Beauty shops
 Barber shops
 Funeral service and crematories
 Shoe repair shops
 Dressmaking shops
 Miscellaneous personal services

Entertainment and recreation services

Theaters and motion pictures
 Video tape rental
 Bowling centers
 Miscellaneous entertainment and recreation services
 Museums, art galleries, and zoos

Public administration

Executive and legislative offices
 General government, n.e.c.
 Justice, public order, and safety
 Public finance, taxation, and monetary policy
 Administration of human resources programs
 Administration of environmental quality and housing programs
 Administration of economic programs
 National security and international affairs

Nondurable manufacturing

Meat products
 Dairy products
 Canned, frozen, and preserved fruits and vegetables
 Grain mill products
 Bakery products
 Sugar and confectionery products
 Beverage industries
 Misc. food preparations and kindred products
 Food industries, n.s.
 Tobacco manufactures
 Knitting mills
 Dyeing and finishing textiles, except wool and knit goods
 Carpets and rugs
 Yarn, thread, and fabric mills
 Miscellaneous textile mill products
 Apparel and accessories, except knit
 Miscellaneous fabricated textile products
 Pulp, paper, and paperboard mills
 Miscellaneous paper and pulp products
 Paperboard containers and boxes
 Newspaper publishing and printing
 Printing, publishing, and allied industries, except newspapers
 Plastics, synthetics, and resins
 Drugs
 Soaps and cosmetics
 Paints, varnishes, and related products
 Agricultural chemicals
 Industrial and miscellaneous chemicals
 Petroleum refining
 Miscellaneous petroleum and coal products
 Tires and inner tubes
 Other rubber products, and plastics footwear and belting
 Miscellaneous plastics products
 Leather tanning and finishing
 Footwear, except rubber and plastic
 Leather products, except footwear
 Manufacturing, non-durable—allocated

Continued on next page

PEW RESEARCH CENTER

Industry categories

Durable manufacturing

Logging
 Sawmills, planing mills, and millwork
 Wood buildings and mobile homes
 Miscellaneous wood products
 Furniture and fixtures
 Glass and glass products
 Cement, concrete, gypsum, and plaster products
 Structural clay products
 Pottery and related products
 Misc. nonmetallic mineral and stone products
 Blast furnaces, steelworks, rolling and finishing mills
 Iron and steel foundries
 Primary aluminum industries
 Other primary metal industries
 Cutlery, handtools, and general hardware
 Fabricated structural metal products
 Screw machine products
 Metal forgings and stampings
 Ordnance
 Miscellaneous fabricated metal products
 Metal industries, n.s.
 Engines and turbines
 Farm machinery and equipment
 Construction and material handling machines
 Metalworking machinery
 Office and accounting machines
 Computers and related equipment
 Machinery, except electrical, n.e.c.
 Machinery, n.s.
 Household appliances
 Radio, TV, and communication equipment
 Electrical machinery, equipment, and supplies, n.e.c.
 Electrical machinery, equipment, and supplies, n.s.
 Motor vehicles and motor vehicle equipment
 Aircraft and parts
 Ship and boat building and repairing
 Railroad locomotives and equipment

Continued on next page

PEW RESEARCH CENTER

Durable manufacturing (continued)

Guided missiles, space vehicles, and parts
 Cycles and miscellaneous transportation equipment
 Scientific and controlling instruments
 Medical, dental, and optical instruments and supplies
 Photographic equipment and supplies
 Watches, clocks, and clockwork operated devices
 Toys, amusement, and sporting goods
 Miscellaneous manufacturing industries
 Manufacturing industries, n.s.

Wholesale trade

Motor vehicles and equipment
 Furniture and home furnishings
 Lumber and construction materials
 Professional and commercial equipment and supplies
 Metals and minerals, except petroleum
 Electrical goods
 Hardware, plumbing and heating supplies
 Machinery, equipment, and supplies
 Scrap and waste materials
 Miscellaneous wholesale, durable goods
 Paper and paper products
 Drugs, chemicals, and allied products
 Apparel, fabrics, and notions
 Groceries and related products
 Farm-product raw materials
 Petroleum products
 Alcoholic beverages
 Farm supplies
 Miscellaneous wholesale, nondurable goods
 Wholesale trade, n.s.

Industry categories

Retail trade

Lumber and building material retailing
 Hardware stores
 Retail nurseries and garden stores
 Mobile home dealers
 Department stores
 Variety stores
 Miscellaneous general merchandise stores
 Grocery stores
 Dairy products stores
 Retail bakeries
 Food stores, n.e.c.
 Motor vehicle dealers
 Auto and home supply stores
 Gasoline service stations
 Miscellaneous vehicle dealers
 Apparel and accessory stores, except shoe
 Shoe stores
 Furniture and home furnishings stores
 Household appliance stores
 Radio, TV, and computer stores
 Music stores
 Eating and drinking places
 Drug stores
 Liquor stores
 Sporting goods, bicycles, and hobby stores
 Book and stationery stores
 Jewelry stores
 Gift, novelty, and souvenir shops
 Sewing, needlework, and piece goods stores
 Catalog and mail order houses
 Vending machine operators
 Direct selling establishments
 Fuel dealers
 Retail florists
 Miscellaneous retail stores
 Retail trade, n.s.

Professional services

Offices and clinics of physicians
 Offices and clinics of dentists
 Offices and clinics of chiropractors
 Offices and clinics of optometrists
 Offices and clinics of health practitioners, n.e.c.
 Hospitals
 Nursing and personal care facilities
 Health services, n.e.c.
 Legal services
 Elementary and secondary schools
 Colleges and universities
 Vocational schools
 Libraries
 Educational services, n.e.c.
 Job training and vocational rehabilitation services
 Child day care services
 Family child care homes
 Residential care facilities, without nursing
 Social services, n.e.c.
 Labor unions
 Religious organizations
 Membership organizations, n.e.c.
 Engineering, architectural, and surveying services
 Accounting, auditing, and bookkeeping services
 Research, development, and testing services
 Management and public relations services
 Miscellaneous professional and related services

Occupation

The occupational categories are based on a modified version of the 1990 Census Bureau occupational classification scheme. The original version has 514 categories. The Integrated Public Use Microdata Series (IPUMS) version has 389 categories. The occupational variable on the 1990 basis is not available for the 2015 CPS ASEC data at IPUMS. As a result the 2014 ASEC was used in the occupational analysis. The analysis collapsed the adult's detailed occupation into 14 occupational aggregates. The specific occupations comprising the 14 occupational composites are as follows (note: n.e.c. refers to "not elsewhere classified"; n.s. refers to "not specified"):

Occupation categories

Executives and managers

Legislators
 Chief executives and public administrators
 Financial managers
 Human resources and labor relations managers
 Managers and specialists in marketing, advertising, and public relations
 Managers in education and related fields
 Managers of medicine and health occupations
 Postmasters and mail superintendents
 Managers of food-serving and lodging establishments
 Managers of properties and real estate
 Funeral directors
 Managers of service organizations, n.e.c.
 Managers and administrators, n.e.c.
 Accountants and auditors
 Insurance underwriters
 Other financial specialists
 Management analysts
 Personnel, HR, training, and labor relations specialists
 Purchasing agents and buyers, of farm products
 Buyers, wholesale and retail trade
 Purchasing managers, agents and buyers, n.e.c.
 Business and promotion agents
 Construction inspectors
 Inspectors and compliance officers, outside construction
 Management support occupations

Professional specialties

Architects
 Aerospace engineer
 Metallurgical and materials engineers, variously phrased
 Petroleum, mining, and geological engineers
 Chemical engineers
 Civil engineers
 Electrical engineer
 Industrial engineers
 Mechanical engineers
 Not-elsewhere-classified engineers
 Computer systems analysts and computer scientists
 Operations and systems researchers and analysts
 Actuaries
 Statisticians
 Mathematicians and mathematical scientists
 Physicists and astronomers
 Chemists
 Atmospheric and space scientists
 Geologists
 Physical scientists, n.e.c.
 Agricultural and food scientists
 Biological scientists
 Foresters and conservation scientists
 Medical scientists

Continued on next page

PEW RESEARCH CENTER

Occupation categories (continued)

Medical professionals

Physicians
 Dentists
 Veterinarians
 Optometrists
 Podiatrists
 Other health and therapy
 Registered nurses
 Pharmacists
 Dietitians and nutritionists
 Respiratory therapists
 Occupational therapists
 Physical therapists
 Speech therapists
 Therapists, n.e.c.
 Physicians' assistants

Teachers and professors

Earth, environmental, and marine science instructors
 Biological science instructors
 Chemistry instructors
 Physics instructors
 Psychology instructors
 Economics instructors
 History instructors
 Sociology instructors
 Engineering instructors
 Math instructors
 Education instructors
 Law instructors
 Theology instructors
 Home economics instructors
 Humanities profs/instructors, college, n.e.c.
 Subject instructors (HS/college)
 Kindergarten and earlier school teachers
 Primary school teachers
 Secondary school teachers
 Special education teachers
 Teachers, n.e.c.
 Vocational and educational counselors

Continued on next page

PEW RESEARCH CENTER

Librarians and curators

Librarians
 Archivists and curators
 Economists, market researchers, and survey researchers
 Psychologists
 Sociologists
 Social scientists, n.e.c.
 Urban and regional planners
 Social workers
 Recreation workers
 Clergy and religious workers
 Lawyers
 Judges
 Writers and authors
 Technical writers
 Designers
 Musician or composer
 Actors, directors, producers
 Art makers: painters, sculptors, craft-artists, and print-makers
 Photographers
 Dancers
 Art/entertainment performers and related
 Editors and reporters
 Announcers
 Athletes, sports instructors, and officials
 Professionals, n.e.c.

Sales

Supervisors and proprietors of sales jobs
 Insurance sales occupations
 Real estate sales occupations
 Financial services sales occupations
 Advertising and related sales jobs
 Sales engineers
 Salespersons, n.e.c.
 Retail sales clerks
 Cashiers
 Door-to-door sales, street sales, and news vendors
 Sales demonstrators / promoters / models
 Sales workers—allocated (1990 internal census)

Occupation categories (continued)

Administrative

Office supervisors
 Computer and peripheral equipment operators
 Secretaries
 Stenographers
 Typists
 Interviewers, enumerators, and surveyors
 Hotel clerks
 Transportation ticket and reservation agents
 Receptionists
 Information clerks, n.e.c.
 Correspondence and order clerks
 Human resources clerks, except payroll and timekeeping
 Library assistants
 File clerks
 Records clerks
 Bookkeepers and accounting and auditing clerks
 Payroll and timekeeping clerks
 Cost and rate clerks (financial records processing)
 Billing clerks and related financial records processing
 Duplication machine operators / office machine operators
 Mail and paper handlers
 Office machine operators, n.e.c.
 Telephone operators
 Other telecom operators
 Postal clerks, excluding mail carriers
 Mail carriers for postal service
 Mail clerks, outside of post office
 Messengers
 Dispatchers
 Inspectors, n.e.c.
 Shipping and receiving clerks
 Stock and inventory clerks

Continued on next page

PEW RESEARCH CENTER

Administrative (continued)

Meter readers
 Weighers, measurers, and checkers
 Customer service reps, investigators and adjusters, except insurance
 Eligibility clerks for government programs; social welfare
 Bill and account collectors
 General office clerks
 Bank tellers
 Proofreaders
 Data entry keyers
 Statistical clerks
 Teacher's aides
 Administrative support jobs, n.e.c.
 Professional, technical, and kindred workers—allocated (1990 internal census)
 Clerical and kindred workers—allocated (1990 internal census)
 Material recording, scheduling, production, planning, and expediting clerks
 Insurance adjusters, examiners, and investigators
Farming, forestry and fishing
 Farmers (owners and tenants)
 Horticultural specialty farmers
 Farm managers, except for horticultural farms
 Managers of horticultural specialty farms
 Farmworkers
 Farm laborers and farm foreman—allocated (1990 internal census)
 Marine life cultivation workers
 Nursery farming workers
 Supervisors of agricultural occupations
 Gardeners and groundskeepers
 Animal caretakers except on farms
 Graders and sorters of agricultural products
 Inspectors of agricultural products
 Timber, logging, and forestry workers
 Fishers, hunters, and kindred

Occupation categories (continued)

Mechanics and repairers

Supervisors of mechanics and repairers
 Automobile mechanics
 Bus, truck, and stationary engine mechanics
 Aircraft mechanics
 Small engine repairers
 Auto body repairers
 Heavy equipment and farm equipment mechanics
 Industrial machinery repairers
 Machinery maintenance occupations
 Repairers of industrial electrical equipment
 Repairers of data processing equipment
 Repairers of household appliances and power tools
 Telecom and line installers and repairers
 Repairers of electrical equipment, n.e.c.
 Heating, air conditioning, and refrigeration mechanics
 Precision makers, repairers, and smiths
 Locksmiths and safe repairers
 Office machine repairers and mechanics
 Repairers of mechanical controls and valves
 Elevator installers and repairers
 Millwrights
 Mechanics and repairers, n.e.c.
 Supervisors of construction work
 Masons, tilers, and carpet installers
 Carpenters
 Drywall installers
 Electricians
 Electric power installers and repairers
 Painters, construction and maintenance
 Paperhangers
 Plasterers
 Plumbers, pipe fitters, and steamfitters
 Concrete and cement workers
 Glaziers
 Insulation workers
 Paving, surfacing, and tamping equipment operators
 Roofers and slaters
 Sheet metal duct installers

Continued on next page

PEW RESEARCH CENTER

Mechanics and repairers (continued)

Structural metal workers
 Drillers of earth
 Construction trades, n.e.c.
 Drillers of oil wells
 Explosives workers
 Miners
 Other mining occupations
 Production supervisors or foremen
 Tool and die makers and die setters
 Machinists
 Boilermakers
 Precision grinders and filers
 Patternmakers and model makers
 Lay-out workers
 Engravers
 Tinsmiths, coppersmiths, and sheet metal workers
 Cabinetmakers and bench carpenters
 Furniture and wood finishers
 Other precision woodworkers
 Dressmakers and seamstresses
 Tailors
 Upholsterers
 Shoe repairers
 Other precision apparel and fabric workers
 Hand molders and shapers, except jewelers
 Optical goods workers
 Dental laboratory and medical appliance technicians
 Bookbinders
 Other precision and craft workers
 Butchers and meat cutters
 Bakers
 Batch food makers
 Adjusters and calibrators
 Water and sewage treatment plant operators
 Power plant operators
 Plant and system operators, stationary engineers
 Other plant and system operators

Occupation categories (continued)

Operators

Lathe, milling, and turning machine operatives
 Punching and stamping press operatives
 Rollers, roll hands, and finishers of metal
 Drilling and boring machine operators
 Grinding, abrading, buffing, and polishing workers
 Forge and hammer operators
 Fabricating machine operators, n.e.c.
 Molders, and casting machine operators
 Metal platers
 Heat treating equipment operators
 Wood lathe, routing, and planing machine operators
 Sawing machine operators and sawyers
 Shaping and joining machine operator (woodworking)
 Nail and tacking machine operators (woodworking)
 Other woodworking machine operators
 Printing machine operators, n.e.c.
 Photoengravers and lithographers
 Typesetters and compositors
 Winding and twisting textile/apparel operatives
 Knitters, loopers, and toppers textile operatives
 Textile cutting machine operators
 Textile sewing machine operators
 Shoemaking machine operators
 Pressing machine operators (clothing)
 Laundry workers
 Misc. textile machine operators
 Cementing and gluing machine operators
 Packers, fillers, and wrappers
 Extruding and forming machine operators
 Mixing and blending machine operatives
 Separating, filtering, and clarifying machine operators
 Painting machine operators
 Roasting and baking machine operators (food)
 Washing, cleaning, and pickling machine operators
 Paper folding machine operators
 Furnace, kiln, and oven operators, apart from food

Continued on next page

PEW RESEARCH CENTER

Operators (continued)

Crushing and grinding machine operators
 Slicing and cutting machine operators
 Motion picture projectionists
 Photographic process workers
 Machine operators, n.e.c.
 Welders and metal cutters
 Solderers
 Assemblers of electrical equipment
 Hand painting, coating, and decorating occupations
 Production checkers and inspectors
 Graders and sorters in manufacturing

Technicians

Clinical laboratory technologies and technicians
 Dental hygienists
 Health record tech specialists
 Radiologic tech specialists
 Licensed practical nurses
 Health technologists and technicians, n.e.c.
 Electrical and electronic (engineering) technicians
 Engineering technicians, n.e.c.
 Mechanical engineering technicians
 Drafters
 Surveyors, cartographers, mapping scientists and technicians
 Biological technicians
 Chemical technicians
 Other science technicians
 Airplane pilots and navigators
 Air traffic controllers
 Broadcast equipment operators
 Computer software developers
 Programmers of numerically controlled machine tools
 Legal assistants, paralegals, legal support, etc.
 Technicians, n.e.c.

Occupation categories (continued)

Service occupations

Housekeepers, maids, butlers, stewards, and lodging quarters cleaners
 Private household cleaners and servants
 Private household workers—allocated (1990 internal census)
 Bartenders
 Waiter/waitress
 Cooks, variously defined
 Food counter and fountain workers
 Kitchen workers
 Waiter's assistant
 Misc. food prep workers
 Dental assistants
 Health aides, except nursing
 Nursing aides, orderlies, and attendants
 Supervisors of cleaning and building service
 Janitors
 Elevator operators
 Pest control occupations
 Supervisors of personal service jobs, n.e.c.
 Barbers
 Hairdressers and cosmetologists
 Recreation facility attendants
 Guides
 Ushers
 Public transportation attendants and inspectors
 Baggage porters
 Welfare service aides
 Child care workers
 Personal service occupations, n.e.c.

Protective services

Supervisors of guards
 Firefighting, prevention, and inspection
 Police, detectives, and private investigators
 Other law enforcement: sheriffs, bailiffs, correctional institution officers
 Crossing guards and bridge tenders
 Guards, watchmen, doorkeepers
 Protective services, n.e.c.

PEW RESEARCH CENTER

Transportation occupations

Supervisors of motor vehicle transportation
 Truck, delivery, and tractor drivers
 Bus drivers
 Taxi cab drivers and chauffeurs
 Parking lot attendants
 Transport equipment operatives—allocated (1990 internal census)
 Railroad conductors and yardmasters
 Locomotive operators (engineers and firemen)
 Railroad brake, coupler, and switch operators
 Ship crews and marine engineers
 Water transport infrastructure tenders and crossing guards
 Operating engineers of construction equipment
 Crane, derrick, winch, and hoist operators
 Excavating and loading machine operators
 Misc. material moving occupations
 Helpers, constructions
 Helpers, surveyors
 Construction laborers
 Production helpers
 Garbage and recyclable material collectors
 Materials movers: stevedores and longshore workers
 Stock handlers
 Machine feeders and offbearers
 Freight, stock, and materials handlers
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Packers and packagers by hand
 Laborers outside construction
 Laborers, except farm—allocated (1990 internal census)