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
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
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

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.

Continued on next page
## 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
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
## 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

### 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.

### 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

### 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

**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

Continued on next page
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

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

Continued on next page
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

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.

Continued on next page
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.

**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)