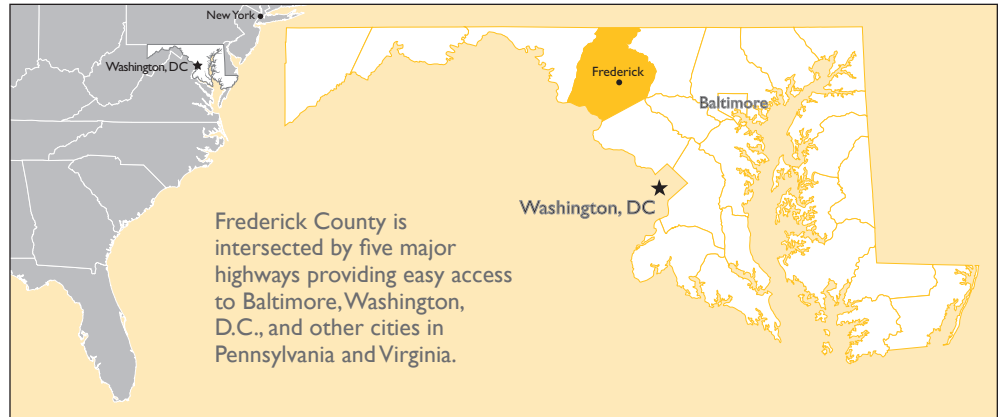


Brief Economic Facts

FREDERICK COUNTY, MARYLAND

Frederick County is Maryland's largest in size—663 square miles—and has the second highest concentration of biotech companies in the state. In addition to Fort Detrick, the county is home to most of the nation's biological defense programs. With its strategic location, comprehensive transportation network, educated workforce and moderate business costs, Frederick has attracted a diverse industry mix. The county has successfully blended its rich agriculture heritage with a world-class advanced technology sector, and leads the state in craft beverage sector growth. Manufacturing, healthcare and tourism are also growing sectors. The City of Frederick is intersected by five interstate and national highways that provide easy access to Baltimore, Washington D.C., Gettysburg, PA, and Leesburg, VA.

Frederick County's 6,300 businesses employ over 84,000 workers. It is a global leader in life-saving research with NCI's Frederick National Laboratory for Cancer Research



and the National Biodefense Analysis and Countermeasures Center complemented by major private sector employers including AstraZeneca, Leidos, Life Technologies, Lonza, and ThermoFisher. United Health Care, Fannie Mae and Wells Fargo Home Mortgage also have major operations in the county. Significant recent projects include: announced expansions of Flying Dog, the states largest craft brewery, and Emmes Corporation; and headquarters relocation and expansion of Carey International.

LOCATION

Driving distance from Frederick:	Miles	Kilometers
Atlanta, Georgia	635	1,021
Baltimore, Maryland	46	75
Boston, Massachusetts	443	713
Chicago, Illinois	637	1,025
New York, New York	232	373
Philadelphia, Pennsylvania	143	229
Pittsburgh, Pennsylvania	179	288
Richmond, Virginia	145	233
Washington, DC	44	71

CLIMATE AND GEOGRAPHY¹

Yearly Precipitation (inches)	43.6
Yearly Snowfall (inches)	26.3
Summer Temperature (°F)	73.4
Winter Temperature (°F)	33.6
Days Below Freezing	106.1
Land Area (square miles)	662.7
Water Area (square miles)	4.6
Elevation (feet)	200 to 1,895

POPULATION^{2,3}

	Frederick County Households	Frederick County Population	Maryland part of Washington DC metro*	Maryland
2000	70,060	195,277	2,065,242	5,296,486
2010	84,800	233,385	2,303,870	5,773,552
2020**	97,010	260,800	2,490,650	6,141,900

*Calvert, Charles, Frederick, Montgomery and Prince George's counties

**Projections

Selected places population (2010): Frederick 65,239; Ballenger Creek 18,274; Urbana 9,175; Linganore 8,543; Thurmont 6,170; Brunswick 5,870; Walkersville 5,800; Spring Ridge 5,795

POPULATION DISTRIBUTION^{2,3} (2016)

Age	Number	Percent
Under 5	14,559	5.9
5 - 19	50,317	20.3
20 - 44	77,658	31.4
45 - 64	71,226	28.8
65 and over	33,831	13.7
Total	247,591	100.0
Median age		39.0 years

Brief Economic Facts FREDERICK COUNTY, MARYLAND

LABOR AVAILABILITY^{3,4,5} (BY PLACE OF RESIDENCE)

Civilian Labor Force (2016 avg.)	Labor Mkt.	
	County	Area*
Total civilian labor force	129,440	757,771
Employment	124,587	730,977
Unemployment	4,853	26,794
Unemployment rate	3.7%	3.5%

Residents commuting outside the county to work (2012-2016)	Number	Percent
	53,112	41.8%

Employment in selected occupations (2012-2016)		
Management, business, science and arts	59,285	46.1%
Service	19,900	15.5%
Sales and office	29,136	22.6%
Production, transp. and material moving	9,068	7.0%

* Frederick, Montgomery and Washington counties

MAJOR EMPLOYERS^{6,7} (2017)

Employer	Product/Service	Employment
Fort Detrick*++	Military installation	6,400
Frederick Memorial Healthcare System	Medical services	2,380
Leidos Biomedical Research	Medical research	2,100
Wells Fargo Home Mortg.	Mortgage services	1,710
Frederick Comm. College	Higher education	1,020
Plamondon Companies	Hotels, restaurants mgmt.	1,000
UnitedHealthcare	Health insurance	750
AstraZeneca	Biopharmaceuticals	700
National Emergency Training Centers*++	Federal government	575
Thermo Fisher Scientific	Biological products	565
NVR Building Products	Home builder	515
Mount St. Mary's University	Higher education	510
State Farm Insurance	Insurance	510
Lonza	Biological media	465
Hood College	Higher education	420
Legan & General America	Life insurance	400
RR Donnelly	Business documents	395
Stulz Air Technology Sys.	Air conditioning systems	395
YMCA of Frederick County	Recreation and sports ctr.	395
Costco Depot	Consumer goods distribution and retailing	375
Music & Arts	Music instruction	355

Excludes post offices, state and local governments, national retail and national foodservice; includes higher education

* Employee counts for federal and military facilities exclude contractors to the extent possible; embedded contractors may be included

+Includes employees at Frederick National Lab

++U.S. Fire Academy, FEMA and other tenants

EMPLOYMENT⁴ (2016, BY PLACE OF WORK)

Industry	Estab-lishments	Annual Avg. Empl.	Emp. %	Avg. Wkly. Wage
Federal government	62	3,662	3.7	\$1,728
State government	12	1,176	1.2	974
Local government	82	10,403	10.5	979
Private sector	6,315	84,118	84.7	912
Natural resources and mining	59	513	0.5	689
Construction	939	9,544	9.6	1,107
Manufacturing	176	5,200	5.2	1,154
Trade, transportation and utilities	1,177	17,326	17.4	722
Information	72	1,061	1.1	1,399
Financial activities	599	6,055	6.1	1,450
Professional and business services	1,425	14,696	14.8	1,256
Education and health services	749	14,193	14.3	829
Leisure and hospitality	569	11,769	11.8	349
Other services	550	3,761	3.8	712
Total	6,471	99,359	100.0	950

Includes civilian employment only

HOURLY WAGE RATES⁴ (2016)

Selected Occupations	Median	Entry	Experienced
Accountants	\$35.69	\$23.52	\$45.76
Bookkeeping/accounting clerks	22.48	16.03	26.58
Computer systems analysts	53.72	33.94	65.55
Computer user support specialists	18.09	11.99	25.08
Customer service representatives	15.54	11.71	19.46
Electrical engineers	55.24	39.36	63.31
Electronics engineering technicians	32.54	22.01	35.23
Freight, stock and material movers, hand	11.54	9.78	14.17
Industrial truck operators	17.93	15.71	19.69
Inspectors, testers, sorters	20.16	16.42	24.84
Machinists	24.57	19.00	27.41
Maintenance and repair workers	20.67	13.41	24.78
Packers and packagers, hand	11.09	8.77	13.64
Secretaries	18.60	12.95	21.70
Shipping/receiving clerks	15.01	12.08	18.57
Team assemblers	14.76	12.56	18.16

Wages are an estimate of what workers might expect to receive in Frederick County and may vary by industry, employer and locality

Brief Economic Facts FREDERICK COUNTY, MARYLAND

SCHOOLS AND COLLEGES^{3,8}

Educational Attainment - age 25 & over (2012-2016)

High school graduate or higher	92.6%
Bachelor's degree or higher	39.7%

Public Schools

Number: 36 elementary; 13 middle; 11 high; 3 charter
Enrollment: 42,140 (Sept. 2017)
Cost per pupil: \$12,661 (2014-2015)
Students per teacher: 15.9 (Oct. 2016)
High school career / tech enrollment: 6,166 (2017)
High school graduates: 2,894 (July 2016)

Nonpublic Schools

Number: 54 (Sept. 2016)

Higher Education	Enrollment ('17)	Degrees ('16)
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2-year institution

Frederick Community College	6,192	981
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4-year institutions

Hood College	2,112	624
Mount St. Mary's University	2,323	605

Several major universities are within an easy commute of the county. The Frederick Center for Research and Education in Science and Technology is a regional higher education center offering masters degrees in conjunction with the University of Maryland, College Park.

TAX RATES⁹

	Frederick Co.	Maryland
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Corporate Income Tax (2018)	none	8.25%
Base – federal taxable income		

Personal Income Tax (2018)	2.96%	2.0%-5.75%*
Base – federal adjusted gross income		
*Graduated rate peaking at 5.75% on taxable income over \$300,000		

Sales & Use Tax (2018)	none	6.0%
Exempt – sales for resale; manufacturer's purchase of raw materials; manufacturing machinery and equipment; purchases of materials and equipment used in R&D and testing of finished products; purchases of computer programs for reproduction or incorporation into another computer program for resale		

Real Property Tax (FY 18)	\$1.06	\$0.112
Effective rate per \$100 of assessed value		
In an incorporated area, the county rate may vary and a municipal rate will also apply		

Business Personal Property Tax (FY 18)	none	none
No county personal property tax on ordinary business property		
\$2.65/\$100 applicable to utility operating property only		
In an incorporated area, a municipal rate may apply; municipal exemptions may be available		

Major Tax Credits Available

Enterprise Zone, Job Creation, More Jobs for Marylanders, R&D, Biotechnology and Cybersecurity Investment, Arts & Entertainment District

INCOME³ (2012-2016)

Distribution	Percent Households		
	Frederick Co.	Maryland	U.S.
Under \$25,000	11.0	14.9	22.3
\$25,000 - \$49,999	15.3	17.6	23.1
\$50,000 - \$74,999	17.6	16.9	17.8
\$75,000 - \$99,999	13.9	13.3	12.2
\$100,000 - \$149,999	21.8	18.4	13.5
\$150,000 - \$199,999	11.1	9.2	5.4
\$200,000 and over	9.4	9.7	5.7
Median household	\$85,715	\$76,067	\$55,322
Average household	\$103,005	\$100,071	\$77,866
Per capita	\$38,280	\$37,756	\$29,829
Total income (millions)	\$9,167	\$217,904	\$9,166,046

HOUSING^{2,3,10}

Occupied Units (2012-2016)	88,995 (74.1% owner occupied)
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Housing Transactions	Units	Median Selling Price
All arms-length transactions (2016)	4,072	\$307,045
All multiple-listed properties (2017)*	4,282	\$296,966

*Excludes auctions and FSBO

BUSINESS AND INDUSTRIAL PROPERTY⁶

Frederick County offers upscale research and development, office and industrial campuses with in-place amenities. Over 30 industrial and office parks have available sites ranging from one to 200 acres with easy access to a vast transportation network. The inventory of available space totals over 3 million sq. ft.

Frederick County Office of Economic Development uses a comprehensive site database, CoStar Property, to assist businesses in the site selection process. The following are selected business parks in the Frederick area: 270 Technology Park, Ballenger Creek Center, Center at Monocacy, Frederick Airport Park, Jefferson Tech Park, Intercoastal Industrial Center, Knowledge Farms, Omega Center, Riverside Industrial Park, Riverside Tech Park, Stanford Industrial Park, Urbana Office & Research Center, Wedgewood Business Park, Westview South and Westview Corporate Campus. These locations offer outstanding opportunities for information technology, bioscience or manufacturing operations.

Business Incubator

Frederick Innovative Technology Center, Inc. (FITCI), Frederick

Market Profile Data (2017)	Low	High	Average
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Land – cost per acre			
Industrial	\$15,000	\$400,000	\$140,000
Office	\$40,000	\$700,000	\$370,000

Rental Rates – per square foot

Warehouse / Industrial	\$4.00	\$10.50	\$6.50
Flex / R&D / Technology	\$5.00	\$18.00	\$10.00
Class A Office	\$12.00	\$36.00	\$18.00

Brief Economic Facts // FREDERICK COUNTY, MARYLAND

TRANSPORTATION

Highways: I-70, I-270, U.S. 15, U.S. 40 and U.S. 340

Mass Transit: MARC (commuter rail) service to Washington, D.C. and Amtrak; public bus transportation throughout Frederick City and connecting to other municipalities

Rail: CSX Transportation and Maryland Midland Railway (short line service)

Truck: 71 local and long-distance trucking establishments are located in the county

Water: Served by the Port of Baltimore, 50' channel; a leading U.S. automobile and break-bulk port; seven public terminals including the state-of-the-art Intermodal Container Transfer Facility

Air: Served by Baltimore/Washington International Thurgood Marshall Airport (BWI) as well as Reagan Washington National and Washington Dulles International Airports; Frederick Municipal Airport offers jet and turboprop charter service and ILS, VOR and GPS approaches; 2 runways with longest at 5200'

RECREATION AND CULTURE

Parks: Cunningham Falls, Gambrill, Gathland, and Washington Monument State Parks, Monocacy National Battlefield, Sugarloaf Mountain, C&O Canal Towpath and Catoctin Mountain Park

Recreation and Leisure: Golfing, fishing, hiking, ice skating, canoeing, swimming, orchard and winery tours, historic walking and motorcoach tours, visual and performing arts, art galleries, a zoological park, and minor league baseball

Historical and Cultural: Schifferstadt Architectural Museum, Barbara Fritchie House, Francis Scott Key Monument and Grave, Roger Brooke Taney House/Francis Scott Key Museum, National Museum of Civil War Medicine, Historical Society of Frederick County, Delaplaine Visual Arts Center, Weinberg Center for the Arts, Seton Shrine Center, Grotto of Lourdes, Lily Pon Water Gardens, Brunswick Railroad Museum, covered bridges and antique and specialty shopping

Arts & Entertainment District: Downtown Frederick

Events: Frederick's In the Street Festival, Brunswick Railroad Days, Candlelight Tour of homes, museums and historic houses of worship, Beyond the Garden Gates Tour, Rose Hill Days, Frederick Festival of the Arts, Maryland Christmas Show, Catoctin Colorfest, the Great Frederick Fair, New Market Days, Commemoration of the Battle of Monocacy, Myersville Trolley Festival, Middletown Heritage Festival, Oktoberfest at Schifferstadt, Annual Craft Fair and more

UTILITIES

Electricity: The Allegheny Power System and Thurmont Municipal Light Company; customers of investor-owned utilities and major cooperatives may choose their electric supplier

Gas: Frederick Gas Company, a division of Washington Gas; Baltimore Gas and Electric serves Mount Airy; UGI Central Penn Gas serves Rocky Ridge and Emmitsburg; customers may choose their gas supplier

Water and Sewer: Municipal water and sewer systems in Brunswick, Emmitsburg, Frederick, Middletown, Mount Airy, Myersville and Thurmont; municipal water systems in Walkersville and Woodsboro; 18 county-operated water plants and 15 sewage plants serve a wide geographical area

Telecommunications: Predominant local carrier - Verizon Maryland; Long distance carriers - AT&T, LCI, Sprint Nextel, Verizon and numerous additional carriers, resellers and providers of WATS, MTS, voice, paging systems, data, video networking, CATV, satellite communications systems and other wireless systems; ISDN digital switching and fiber optics widely available

GOVERNMENT¹¹

County Seat: Frederick

Government: County executive and seven member county council elected for four-year terms; charter form of government allows for the separation of the executive from the legislative branch; lawmaking powers are vested in an elected legislative body

Jan H. Gardner, County Executive 301.600.3190

Harold F. (Bud) Otis, Jr., Pres., County Council 301.600.1303

Website: www.frederickcountymd.gov

County Bond Rating: AAA (S&P); Aaa (Moody's); AAA (Fitch)

Frederick County Office of Economic Development

Helen Propheter, Director

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Sources:

- 1 National Oceanic and Atmospheric Administration (1981-2010 normals); Maryland Geological Survey
- 2 Maryland Department of Planning
- 3 U.S. Bureau of the Census
- 4 Maryland Department of Labor, Licensing and Regulation, Office of Workforce Information and Performance
- 5 U.S. Bureau of Labor Statistics
- 6 Frederick County Office of Economic Development
- 7 Maryland Department of Commerce
- 8 Maryland State Department of Education; Maryland Higher Education Commission
- 9 Maryland State Dept. of Assessments and Taxation; Comptroller of the Treasury
- 10 Maryland Association of Realtors
- 11 Maryland State Archives; Maryland Association of Counties