

APPENDIX B: DATA SOURCES

Chapter 1 Demographic Indicators

Indicator	Years	Measure/Graph	Source
Population			
State Population	60,70,80,90,2000	Number of people in state vs. time	Census of Population
County Population	60,70,80,90,2000	Number of people in the county vs. time	Census of Population
County Population as Percent of State Population	60,70,80,90,2000	Percent of state population resident in county vs. time	Calculated from sources on this page
Population Density, Persons per square mile	60,70,80,90,2000	Number of persons per sq. mile average for county vs. time	Census of Population
Ethnic Distribution			
Asian Hawaiian and Pacific Islander African American White Hispanic or Latino Native American and Alaskan Native	1990, 2000	Percentage of county population that classify themselves in each of the following groups: Asian, National Hawaiian and Pacific Islander, African American, White, Hispanic or Latino, Native American and Alaskan Native	Census of Population
Employment and Income			
Inflation Adjustment	79, 89, 99	Factor used as multiplier to convert dollar values for a given year to 1997 equivalent	Consumer Price Index data compiled by Robert Sahr, Political Science Department, Oregon State University, Corvallis, Oregon
Total Employment for the County	70, 80, 90, 2000	Number of people employed vs. time for census year	Census of Population
Median Income per household	80, 90, 2000	Median income per household vs. time for census year	Census of Population
County Per Capita Annual Income	80, 90, 2000	County per capita annual income vs. time	Census of Population
County's Rank in the State for Per Capita Income	80, 90, 2000	Rank of county per capita income in state vs. time	Census of Population
Poverty			
Number of Welfare Recipients (AFDC/FAIM)	1981 to 2003	Number of people receiving welfare vs. time	Carl McMahon Montana State Department of Public Health and Human Services
Civilian Unemployment Rate, Percent	70, 80, 90, 2000	Percent of county labor force unemployed vs. time	Census of Population
Percent of County's Population Below Poverty Line	70, 80, 90, 2000	Percent of county's population below poverty level vs. time	Census of Population
Percent of County's Families below poverty	70, 80, 90, 2000	Percent of total number of families in county below poverty level vs. time	Census of Population

Chapter 2
Agricultural Resource Base Indicators

Indicator	Year	Measure/Graph	Source
Farm Numbers and Acreage			
Number of Farms in Montana	50, 54, 59, 64, 69, 74, 78, 82, 87, 92, 97	Total number of farms in state vs. time for ag. census years	U.S. Census of Agriculture, Geographic Area Series
Acres in Farming, total for Montana	50, 54, 59, 64, 69, 74, 78, 82, 87, 92, 97	Acres in farming for state vs. time for ag. census years	U.S. Census of Agriculture, Geographic Area Series
Number of Farms in Missoula County	50, 54, 59, 64, 69, 74, 78, 82, 87, 92, 97	Total number of farms in county vs. time for ag. census years	U.S. Census of Agriculture, Geographic Area Series
Acres in Farming in Missoula County	50, 54, 59, 64, 69, 74, 78, 82, 87, 92, 97	Acres in farming for county vs. time for ag. census years	U.S. Census of Agriculture, Geographic Area Series
Percent of Montana's Farms in Missoula County	50, 54, 59, 64, 69, 74, 78, 82, 87, 92, 97	Number farms in county as percent of state total vs. time for ag. census years	U.S. Census of Agriculture, Geographic Area Series
Percent of Montana's Farm Acreage in Missoula County	50, 54, 59, 64, 69, 74, 78, 82, 87, 92, 97	Acreage in farming for county as percent of state total vs. time for ag. census years	U.S. Census of Agriculture, Geographic Area Series
Average Farm Size in Missoula County, Acres	50, 54, 59, 64, 69, 74, 78, 82, 87, 92, 97	Average farm size in county vs. time for ag. census years	U.S. Census of Agriculture, Geographic Area Series
Number of Farms in Missoula County by Acreage Size Class	50, 54, 59, 64, 69, 74, 78, 82, 87, 92, 97	Number of farms per size class of 1-9, 10-49, 50-179, 180-499, 500-999, and 1000+ acre categories vs. time for ag. census years	U.S. Census of Agriculture, Geographic Area Series
Farm Ownership			
Acres in Full Ownership Acres in Part Ownership Acres in Tenant Farming	50, 54, 59, 64, 69, 74, 78, 82, 87, 92, 97	Acres under full owner, part owner, and tenant owner (3 lines on a single graph) in county vs. time for census year	U.S. Census of Agriculture, Geographic Area Series

Number of Full Owners Number of Part Owners Number of Tenant Farmers	50, 54, 59, 64, 69, 74, 78, 82, 87, 92, 97	Number of full owners, part owners, and tenants of farms (3 lines on a graph) in County vs. time for ag. census years	U.S. Census of Agriculture, Geographic Area Series
Minority Farm Operators, Number of Farms	74, 78, 82, 87, 92, 97	Number of minority- operated farms in county vs. time for ag. census years	U.S. Census of Agriculture, Geographic Area Series
Age of Farmers			
Average Farmer Age	74, 78, 82, 87, 92, 97	Average farmer age in county vs. time for ag. census years	U.S. Census of Agriculture, Geographic Area Series
Organic Farming			
Number of Organic Farms Acreage in Organic Farming	No Data Available		
Land Conservation			
Acres of land enrolled in Conservation Reserve Program/ Wetlands Reserve Program	87, 92, 97, 2001	No Graph	U.S. Census of Agriculture, Geographic Area Series; Missoula County Office of Planning and Grants

Chapter 3
Agriculture-Related Environmental Indicators

Indicator	Years	Measure/Graph	Source
Groundwater Pollution			
Well water nitrate pollution	N/A	N/A	Clark Fork Voluntary Nutrient Reduction Program 1998 Report, John Harvala, Environmental Health Specialist with the Missoula Valley Water Quality District Dr. Vicki Watson and Will McDowell, VNRP Coordinator.
Total Supplemental Water Use by Agriculture			
Use of State and Federal Subsidized Water by Agriculture	N/A	N/A	Mark Phares attorney at the Department of Natural Resources and Bill Schultz, resource manager at the Missoula Water Resources Regional Office.
Number of Farms Using Irrigation	78, 82, 87, 92, 97	Number of farms in county using irrigation vs. time for agriculture census years	Census of Agriculture
Total Number of Irrigated Acres in the County	78, 82, 87, 92, 97	Total county irrigated acreage vs. time for agriculture census years	Census of Agriculture
Synthetic Input Expenditures			
Expenditures on Petroleum, Fertilizer, and Chemicals	74, 78, 82, 87, 92, 97	Expenditures on petroleum, fertilizer, and chemicals reported under specified farm expenditures.	Census of Agriculture, adjusted for inflation using the Producer Price Index provided by the US Bureau of Labor Statistics
Total Specified Farm Expenditures	74, 87, 92, 97	Total specified farm expenditures (not adjusted)	Census of Agriculture
Cost of inputs as Percent Total Farm Costs	74, 87, 92, 97	Total specified expenditures spent on petroleum, chemicals and fertilizer for all farms in county as a percent of total farm expenditures (not adjusted) vs. time for ag. census years.	Census of Agriculture

Chapter 4
Economic Productivity Indicators for Agriculture and Food Distribution

Gross Agricultural Productivity

Indicator	Years	Measure/Graph	Source
Inflation Adjustment, Agricultural Producers	74, 78, 82, 87, 92, 97	Factor used as a multiplier to convert dollar values for a given year to 2002 equivalent. Shown in table only.	Bureau of Labor Statistics Producer Price Index data, non-seasonally adjusted annual average, farm products group.
State Gross Agricultural Productivity	74, 78, 82, 87, 92, 97	Market value of agricultural sold was deemed to be most accurate value for representing gross agricultural production consistently on both the state and county level. Shown in a table only.	U.S. Census of Agriculture, Geographic (Area) Series, State Highlights.
Gross Agricultural Productivity, County	74, 78, 82, 87, 92, 97	Market value of agricultural sold was deemed to be most accurate value for representing gross agricultural production consistently on both the state and county level.	U.S. Census of Agriculture, Geographic (Area) Series, County Highlights.
County Gross Production as Percentage of State Total	74, 78, 82, 87, 92, 97	Market value of all agricultural products sold in the county presented as a percent of the state total as calculate from census data.	U.S. Census of Agriculture, Geographic (Area) Series, State and County Highlights.

Direct Marketing

Indicator	Years	Measure/Graph	Source
Gross Receipts from Direct Marketing, all Types, all Farms	78, 82, 87 extr., 92, 97	Gross receipts for direct marketing, all types, for county vs. time, ag. census years (1987 no data published, extrapolated).	U.S. Census of Agriculture, Geographic (Area) Series.
Number of Farms Engaged in Direct Marketing, all Types	78, 82, 87 extr., 92, 97	Number of farms participating in direct marketing, all types, for county vs. time, ag. census years (1987 no data published, extrapolated).	U.S. Census of Agriculture, Geographic (Area) Series.
Number of Farmers Markets	2003	No Graph	Representative from Missoula County Farmers Market

Number of CSA programs and individuals	2000, 01, 02, 03	No Graph	Garden City Harvest Records
Number of Roadside Stands	2003	No Graph	Common Ground Farm, Mary Stranahan

Food Distribution System

Indicator	Years	Measure/Graph	Source
Number of Farm Product Raw Wholesalers (Packers, Shippers)	77, 87, 92, 97	No Graph	U.S. Department of Commerce County Business Pattern, MT; U.S. Economic Census, Geographical Area Series
Number of Food Manufacturers	56, 59, 65, 70, 77, 82, 87, 92, 95, 97	Number establishments in county vs. time for economic census years	U.S. Department of Commerce County Business Pattern, MT; U.S. Economic Census, Geographical Area Series
Number of Food Wholesalers	56, 59, 65, 70, 77, 82, 87, 92, 95, 97, 2001	Number establishments in county vs. time for economic census years	U.S. Department of Commerce County Business Pattern, MT; U.S. Economic Census, Geographical Area Series
Number of Food Retailers	56, 59, 65, 70, 77, 82, 87, 92, 95, 2001	Number establishments in county vs. time for economic census years	U.S. Department of Commerce County Business Pattern, MT; U.S. Economic Census, Geographical Area Series
Number of Food Servers (incl. Restaurants)	56, 59, 65, 70, 77, 82, 87, 92, 95, 97, 2001	Number establishments in county vs. time for economic census years	U.S. Department of Commerce County Business Pattern, MT; U.S. Economic Census, Geographical Area Series
Food Manufacturers Net Value Added to Products	No years reported	none	U.S. Economic Census
Farm Product Wholesalers Sales	No Years Reported	none	U.S. Economic Census
Food Wholesalers Sales	1997	none	U.S. Economic Census
Food Retail Sales	1977, 1982, 1987, 1992, 1997	Sales for the county over time adjusted for inflation (Consumer Price Index-CPI)	U.S. Economic Census
Food Servers Sales	1977, 1982, 1987, 1992, 1997	Sales for the county over time adjusted for inflation (CPI)	U.S. Economic Census

Chapter 5
Farm and Food Distribution Employment Indicators

Indicator	Years	Measure/Graph	Source
Employment as Farmers			
Number of Principal Occupation - Farm Operators in the State	74,78,82, 87,92,97	# of State Farm Operators: farming as principal occupation vs. Ag Census Year	U.S. Census of Agriculture
Number of Principal Occupation - Farm Operators in the County	74,78,82, 87,92,97	# of Co. Farm Operators: farming as principal occupation vs. Ag Census Year	U.S. Census of Agriculture
Percent of State Non-Farm Principal Operators	74,78,82, 87,92,97		Calculate using preceding data sets.
Percent of County Non-Farm Principal Operators	74,78,82, 87,92,97		
Percent of Farm Operators in Mlsa. County	74,78,82, 87,92,97		
Farm Labor Employment			
County Total Employment	74,77,84,87,88,89, 90,91,92,93,94,95	Total number of people employed in the county, all occupations, for time vs. ag. census years.	County Business Patterns
State Farm Labor Employment	74,77,84,87,88,89, 90,91,92,93,94,95	Number of people employed on farms in state for 150 days/year or more vs. time, ag. census year.	U.S. Census of Agriculture
County Farm Labor Employment	74,77,84,87,88,89, 90,91,92,93,94,95	Number of farm workers working 150 days/year or more in county vs.. time, ag. census years.	U.S. Census of Agriculture
County Farm Labor Employment as Percent of State Total	78,82, 92,97	Number hired farm workers in county as percent state total vs. time, ag. census year.	Calculated from two preceding data sets.
Farm Labor Employment as Percentage of County Total	1978	not graphed	U. S. Census of Agriculture
Food Distribution System Employment			
Total Food Distribution System Employment for the County	74,77,84, 87,88,89, 90,91,92, 93,94,95	Number workers employed in food system in the county vs. time, county business pattern years.	County Business Patterns
Food Distribution System Employment as Percent County Total Employment	74,77,84, 87,88,89, 90,91,92, 93,94,95	Number workers employed in food distribution system as percent of total county work force vs. time for county business pattern year.	Calculated from preceding sets of data.

Chapter 6
Food Consumption Indicators

Indicator	Years	Measure/ Graph	Source
Inflation Adjustment	72, 77, 82, 87, 92, 97	Factor used as a multiplier to convert dollar values for a given year to 1997 equivalent.	Consumer Price Index data compiled by Robert Sahr, Political Science Department, Oregon State University, Corvallis, Oregon
Total Food Expenditure			
Total Food Expenditures, County	72, 77, 82, 87, 92, 97	Sum of food retailer and food server gross receipts reported in the Economic Census vs. time, Economic Census Years	U.S. Census of Retail Trade, Geographic Area Series
Total Food Expenditures in County Derived from National Average	72, 77, 82, 87, 92, 97	County Population divided by US population, multiplied by total US food expenditures from Food Consumption, Prices, and Expenditures vs. time, Economic Census Years	Calculated from Bureau of Economic Analysis: Regional Economic Accounts, Population Estimates Branch, U.S. Census of Retail Trade, Geographic Area Series
Total County Earnings	72, 77, 82, 87, 92, 97	Total county wages vs. time, Economic Census Years	Bureau of Economic Analysis: Regional Economic Accounts,
Total Food Expenditures in county as % Total County Earnings	72, 77, 82, 87, 92, 97	Total food expenditures as percent of total county earnings vs. time for Economic Census Years	Calculated from U.S. Census of Retail Trade, Geographic Area Series and Bureau of Economic Analysis: Regional Economic Accounts.
Per Capita Food Expenditures			
County Population	72, 77, 82, 87, 92, 97	County Population vs. time, Economic Census Years	Population Estimates Branch, U.S. Census Bureau
County Per Capita Income	72, 77, 82, 87, 92, 97	County per capita income vs. time, Economic Census Years	Bureau of Economic Analysis: Regional Economic Information System
Per Capita Food Expenditures, National Average	72, 77, 82, 87, 92, 97	Total U.S. food expenditures reported in Food Consumption, Prices, and Expenditures divided by U.S. population vs. time, Economic Census Years	Calculated from U.S. Census of Retail Trade, Geographic Area Series, Population Estimates Branch, U.S. Census Bureau
Per Capita Food Expenditures, County	72, 77, 82, 87, 92, 97	Total food expenditures for county from Economic Census data divided by county population vs. time for Economic Census Years	U.S. Census of Retail Trade, Geographic Area Series, Population Estimates Branch, U.S. Census Bureau

Per Capita Food Expenditures, County Deviation from National Average	72, 77, 82, 87, 92, 97	Difference between per capita food expenditures, county and per capita food expenditures, national average, vs. time for Economic Census years.	Calculated from preceding 2 variables
County Per Capita Food Expenditures as % Per Capita Income (adjusted for inflation)	72, 77, 82, 87, 92, 97	Per capita food expenditures, county as percent county per capita income vs. time, Economic Census Years	Bureau of Economic Analysis: Regional Economic Information System and U.S. Census of Retail Trade, Geographic Area Series
National Average Derived County Per Capita Food Expenditures as % Per Capita Income (adjusted for inflation)	72, 77, 82, 87, 92, 97	Inflation adjusted per capita food expenditures, national average, divided by inflation adjusted county per capita income vs. time, Economic Census Years	Bureau of Economic Analysis: Regional Economic Information System and U.S. Census of Retail Trade, Geographic Area Series
Dollars Spent on Food, Home vs. Away			
Food Retailers' Gross Receipts (Home)	72, 77, 82, 87, 92, 97	Food retailers' gross receipts vs. time, Economic Census Years	U.S. Census of Retail Trade, Geographic Area Series
Food Servers' Gross Receipts (Away)	72, 77, 82, 87, 92, 97	Food servers' gross receipts vs. time, Economic Census Years	U.S. Census of Retail Trade, Geographic Area Series
Money Spent on Food at Home in County, Derived from the Nat'l Average	72, 77, 82, 87, 92, 97	Total U.S. food expenditures for home reported in Food Consumption, Prices and Expenditures divided by U.S. population, multiplied by county population vs. time for Economic Census Years	Calculated from Bureau of Economic Analysis: Regional Economic Accounts, Population Estimates Branch, U.S. Census of Retail Trade, Geographic Area Series
Money Spent on Food Away from Home in County, Derived from the Nat'l Average	72, 77, 82, 87, 92, 97	Total U.S. food expenditures away from home reported in Food Consumption, Prices and Expenditures divided by U.S. population, multiplied by county population vs. time for Economic Census Years	Calculated from Bureau of Economic Analysis: Regional Economic Accounts, Population Estimates Branch, U.S. Census of Retail Trade, Geographic Area Series
Ratio, Food Consumed Home vs. Away, County	72, 77, 82, 87, 92, 97	Ratio, food retailer's gross receipts divided by food servers' gross receipts for county vs. time for Economic Census Years	U.S. Census of Retail Trade, Geographic Area Series
Nat'l Averages, Ratio Food Consumption, Home vs. Away	72, 77, 82, 87, 92, 97	Ratio, total U.S. food expenditures for home divided by expenditures away data reported in Food Consumption, Prices, and Expenditures vs. time for Economic Census Years	U.S. Census of Retail Trade, Geographic Area Series

Chapter 7
Food Security and Access Indicators

Indicator	Years	Measure/Graphs	Source
Government Food Program Participation			
Number of People Receiving Food Stamps	1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002	Monthly average number of people participating in the Food Stamp Program in Missoula County. Year end totals are not available; state records the monthly totals then calculates the "monthly average" number of recipients.	State of Montana Department of Public Health and Human Sources website and main office in Helena, MT
Number of People in WIC Program	2000, 2001, 2002, 2003	Number of people in county in WIC vs. Time	Missoula County WIC Office (Mary Pittaway)
Funding of FMNP	2002, 2003	Funding of FMNP vs. Time	County WIC office (Mary Pittaway)
Number of Children enrolled in School Meal Program	1999, 2000, 2001, 2002,	Number of children enrolled and number of children eligible vs. time	State Office of Public Instruction (OPI)
Food Banks			
Number of Food Banks	1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002	Number of food bank/pantries/soup kitchens in Missoula County	Local food banks/pantries/soup kitchens Montana Food Bank Network Missoula County website
Community Gardens			
Number of Community Gardens	1997, 1998, 1999, 2000, 2001, 2002, 2003	Number of community gardens vs. time	Garden City Harvest (Tim Hall)
Poundage harvested and gleaned for Food Drop Sites from Community Gardens	1997, 1998, 1999, 2000, 2001	Amount harvested and gleaned vs. time	Garden City Harvest (Tim Hall)
Poundage harvested through the Volunteer for Veggies Program	1997, 1998, 1999, 2000, 2001	Amount harvested vs. time	Garden City Harvest (Tim Hall)