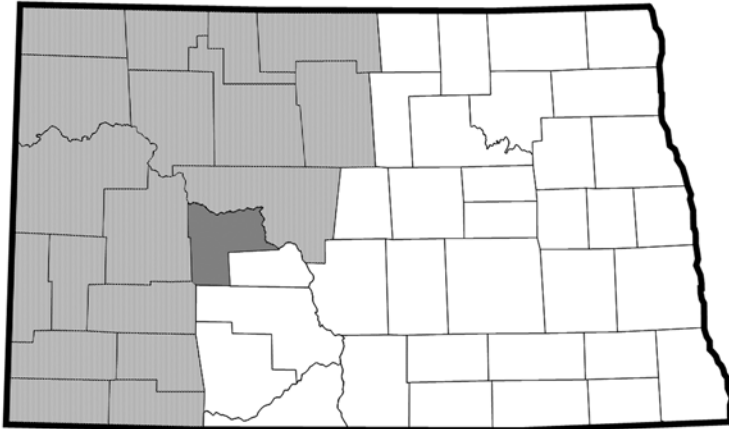


# MERCER COUNTY



## 2016 Vision West ND Projection Series

### 1) Online Webinars:

One-hour webinars for each county discussing recent trends and presenting future projections for employment, population, and housing. Webinars are available at <http://www.visionwestnd.com/webinars.php>

### 2) Overview Report:

NDSU document that discusses study assumptions, data and methods, and overall results of the projection series, along with background data for the study. Report is available at <http://ageconsearch.umn.edu/>

### 3) Final Project Presentation:

Presentation to the Vision West ND highlighting the key elements of the study and conclusions for future change in employment, population, and housing. Slides can be viewed at <http://www.visionwestnd.com>

### 4) County Figures and Tables:

Detailed graphs and tabular data identifying trends and projections of employment, population, and housing for individual counties.

## Employment, Population, and Housing Projections

**NDSU** NORTH DAKOTA  
STATE UNIVERSITY



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Applied Economics

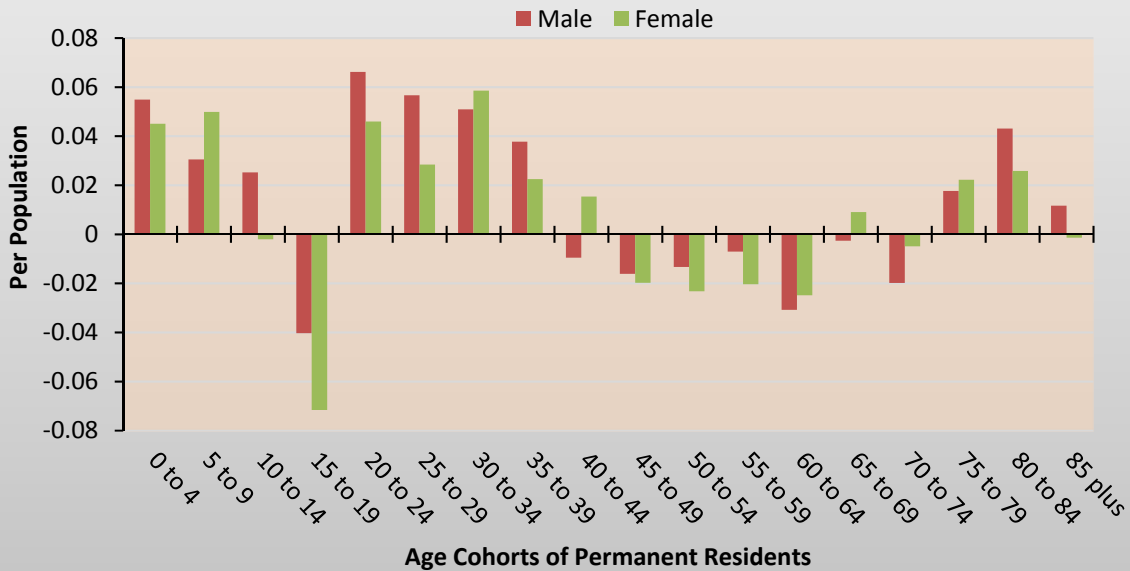
Nancy M. Hodur, PhD  
Center for Social Research

Vision West ND funded the study through grants from the North Dakota Association of Oil and Gas Producing Counties and the North Dakota Energy Infrastructure and Impact Office.

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### Mercer County 2014 Net Migration Rates by Gender and Age Cohort

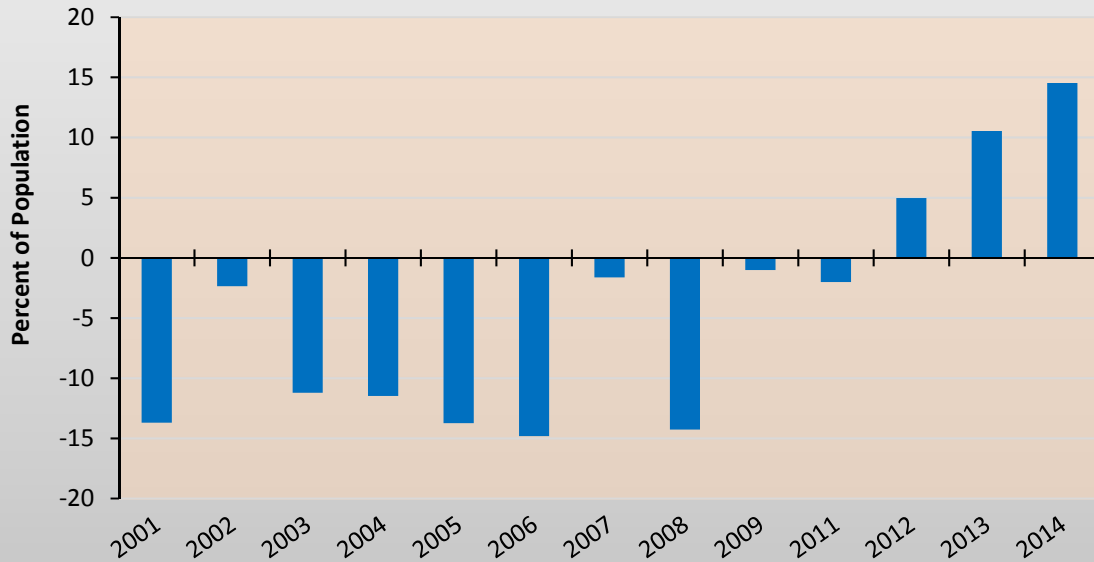


**Age Cohorts of Permanent Residents**

Definition: Net migration is the sum of the number of residents leaving the county and the number of residents moving into the county. Positive net migration means more people moved into the county than moved out of the county. Negative net migration means more people moved out of the county than moved into the county.

Source: NDSU, Center for Social Research

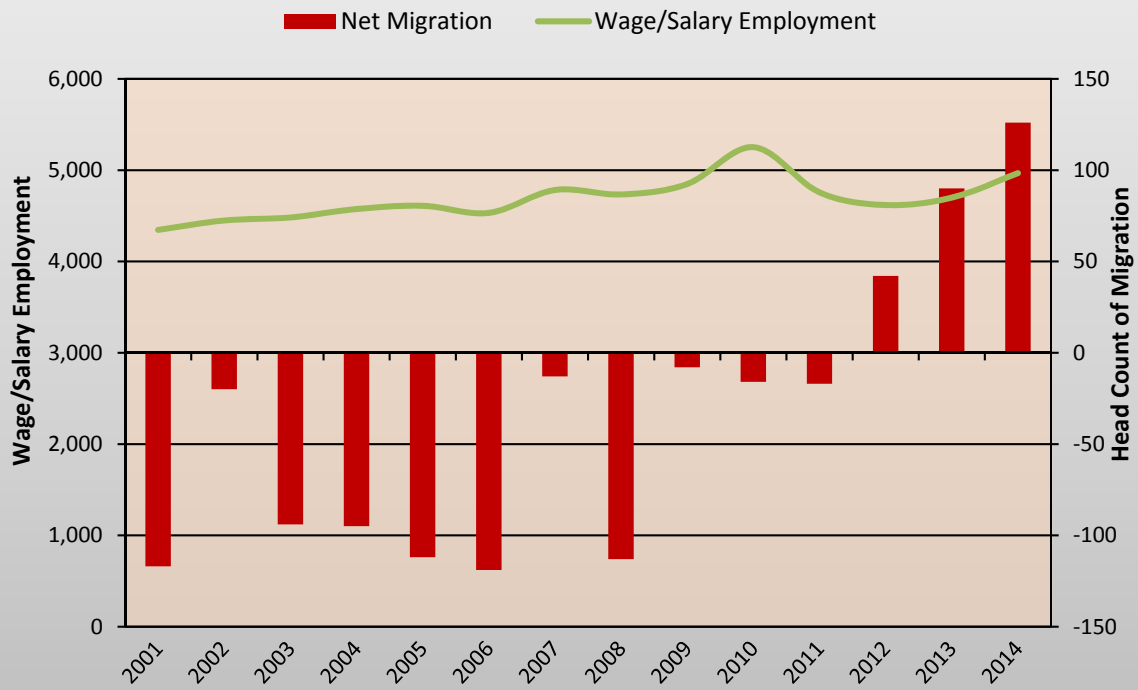
### Mercer County Net Migration Rates



Definition: Net migration is the sum of the number of residents leaving the county and the number of residents moving into the county. Positive net migration means more people moved into the county than moved out of the county. Negative net migration means more people moved out of the county than moved into the county.

Source: NDSU, Center for Social Research

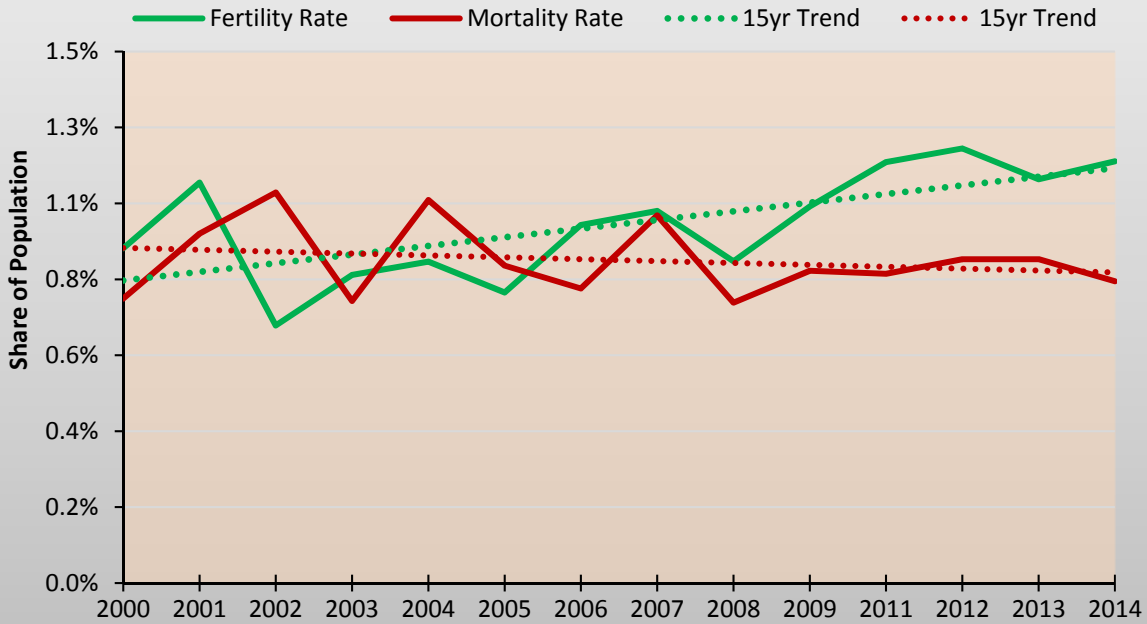
### Mercer County



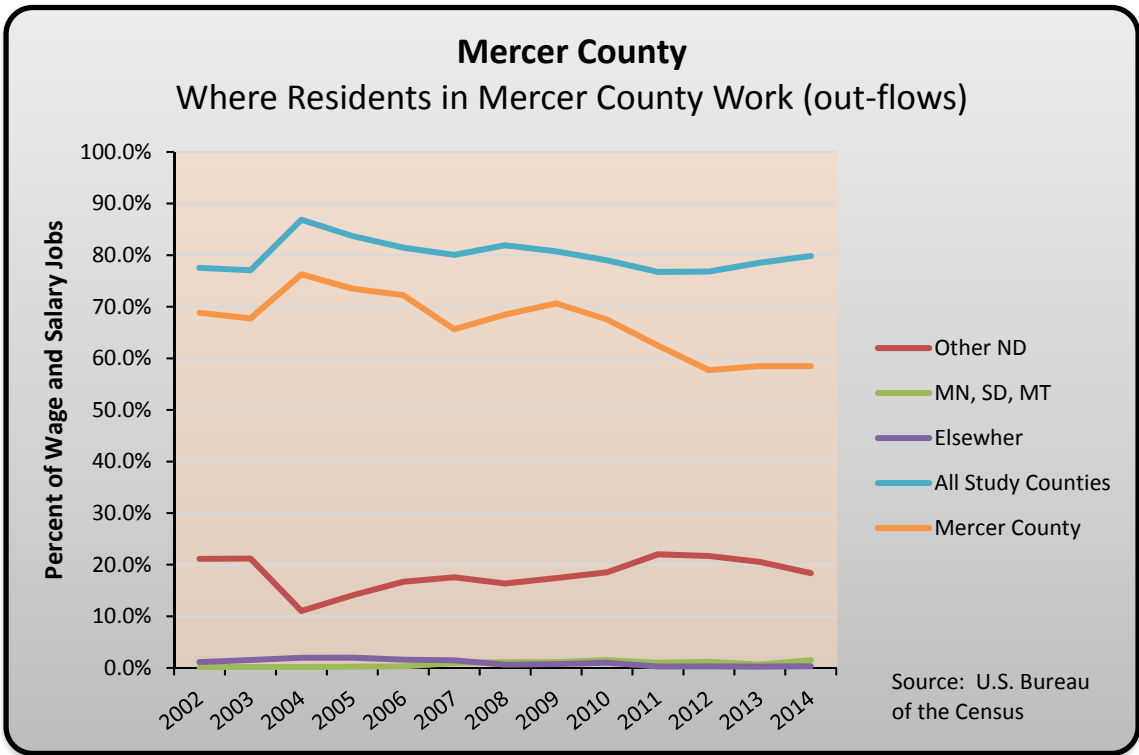
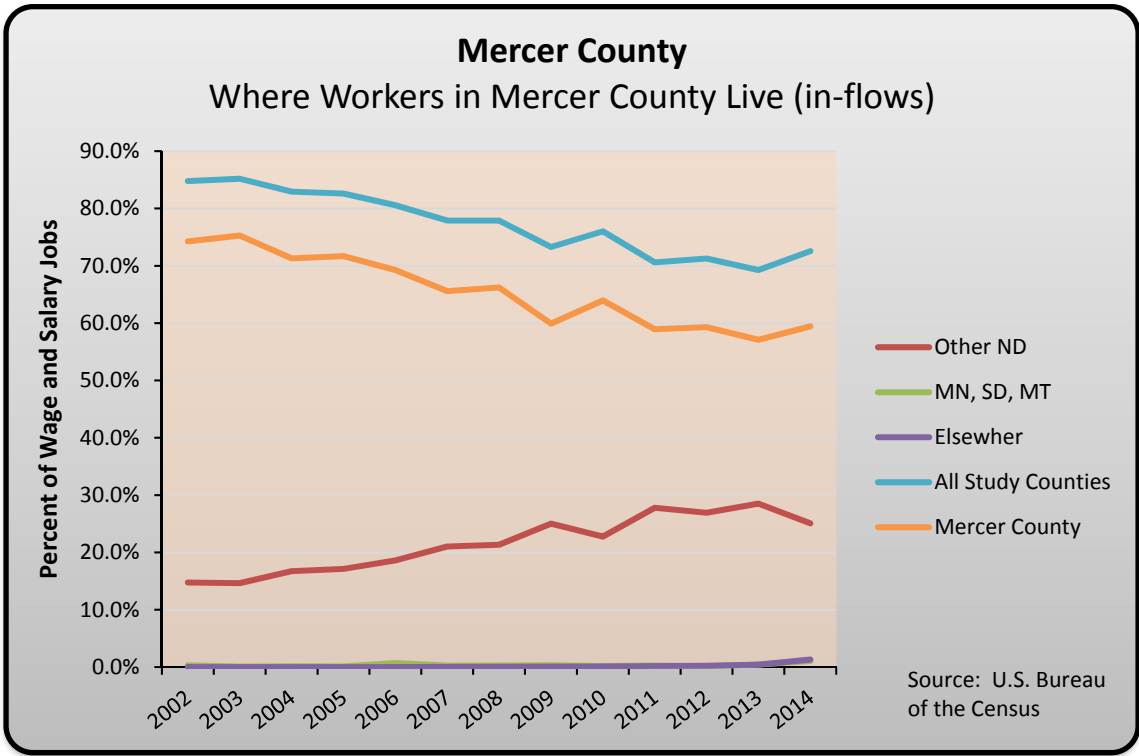
Sources: Job Service North Dakota; 2016 Statewide Housing Needs Assessment, NDSU

### Mercer County

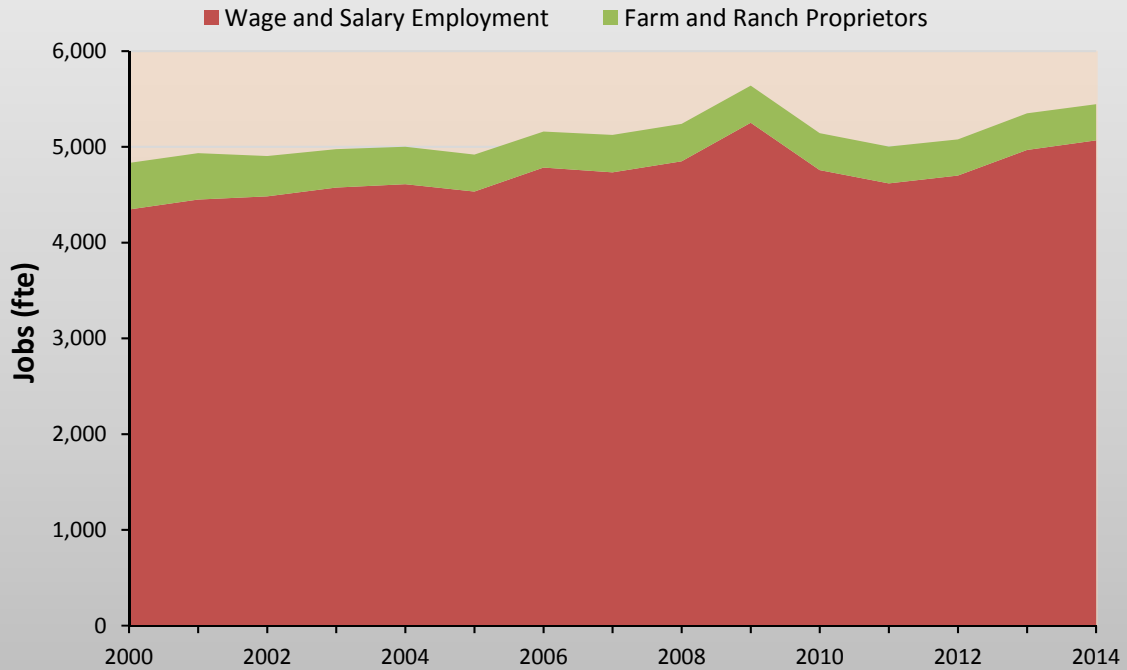
#### Trends in Fertility and Mortality Rates



Source: 2016 Statewide Housing Needs assessment, NDSU

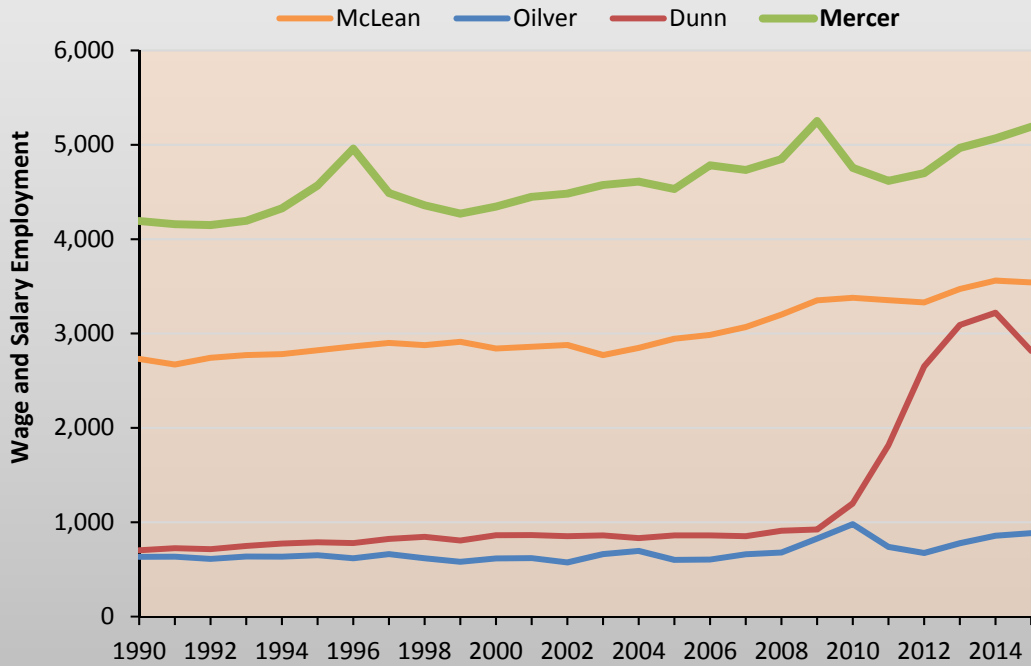


### Mercer County Wage/Salary and Farm/Ranch Employment



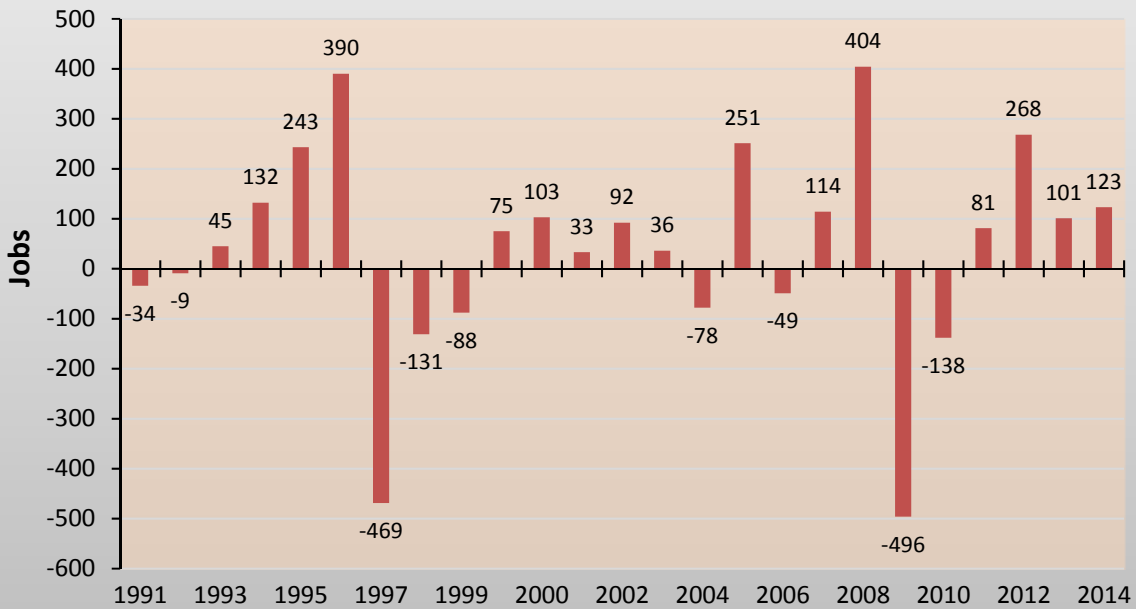
Sources: Job Service North Dakota; US Bureau of the Census

### Surrounding Counties All Wage and Salary Employment



Source: Job Service North Dakota

### Mercer County Annual Change in Wage/Salary Employment



Source: Job Service North Dakota

### Historical Rates of Change in Wage and Salary Employment, Mercer County, North Dakota, 1990 to 2015

	Historical Periods			
	25-year 1990-2015	15-year 2000-2015	10-year 2005-2015	5-year 2010-2015
<b>Change in Employment</b>				
Total Period Change (jobs)	999	845	659	435
Total Period Change (%)	23.8%	19.4%	14.5%	9.1%
Average Annual (jobs)	39.96	56.33	65.90	87.00
Average Annual (%)	0.95%	1.27%	1.48%	1.80%

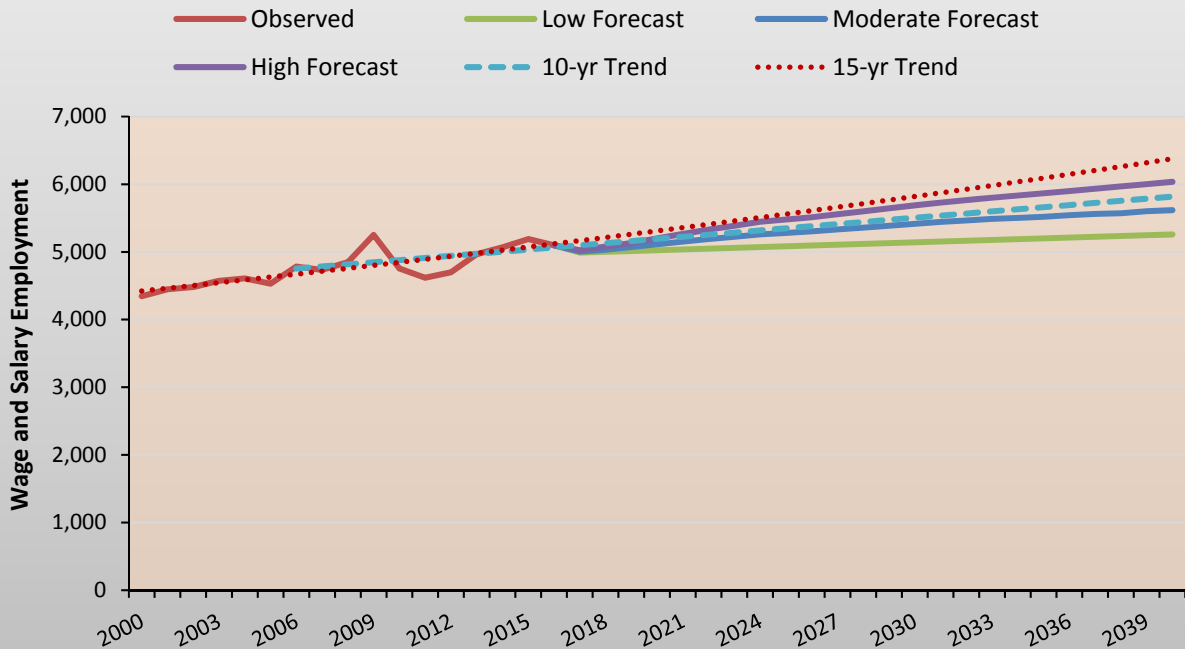
Source: Job Service North Dakota

### Mercer County Historical and Projected Farm and Ranch Operators



Sources: U.S. Bureau of the Census; NDSU Employment Forecasting

### Mercer County Historical and Projected Wage and Salary Employment



Sources: Job Service North Dakota; NDSU Employment Forecasting

## Historical and Projected Employment, by Economic Scenario, Mercer County, North Dakota 2002 - 2040

Year	Wage and Salary Employment			Farm and Ranch Proprietors		
	Actual	Low Scenario	Moderate Scenario	High Scenario	Actual	Projected
2000	4,346				485	
2001	4,449				484	
2002	4,482				422	
2003	4,574				402	
2004	4,610				390	
2005	4,532				387	
2006	4,783				377	
2007	4,734				391	
2008	4,848				391	
2009	5,252				387	
2010	4,756				386	
2011	4,618				385	
2012	4,699				378	
2013	4,967				383	
2014	5,068				377	
2015	5,191					367
2016		5,099	5,099	5,099		365
2017		4,991	5,005	5,025		363
2018		5,002	5,031	5,080		361
2019		5,014	5,072	5,131		360
2020		5,026	5,112	5,199		358
2021		5,037	5,152	5,266		356
2022		5,049	5,189	5,330		355
2023		5,060	5,224	5,387		353
2024		5,072	5,259	5,446		352
2025		5,084	5,282	5,479		351
2026		5,095	5,304	5,513		349
2027		5,107	5,332	5,557		348
2028		5,119	5,360	5,601		347
2029		5,130	5,387	5,644		346
2030		5,142	5,415	5,688		345
2031		5,153	5,443	5,732		344
2032		5,165	5,465	5,766		343
2033		5,177	5,488	5,799		342
2034		5,188	5,503	5,833		341
2035		5,200	5,520	5,867		340
2036		5,212	5,543	5,901		339
2037		5,223	5,562	5,935		338
2038		5,235	5,571	5,968		337
2039		5,246	5,602	6,002		337
2040		5,258	5,617	6,036		336



## Historical and Projected Permanent Populations, by Economic Scenario, Mercer County, North Dakota 2002 - 2040

Year	Actual	Low Scenarios			Moderate Scenarios			High Scenarios		
		Low <sup>1</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>1</sup>
2002	8,542									
2003	8,536									
2004	8,501									
2005	8,437									
2006	8,366									
2007	8,309									
2008	8,351									
2009	8,295									
2010	8,424									
2011	8,419									
2012	8,486									
2013	8,596									
2014	8,746									
2015	8,806									
2016		8,814	8,814	8,814	8,814	8,814	8,814	8,814	8,814	8,814
2017		8,769	8,790	8,801	8,823	8,849	8,862	8,894	8,920	8,932
2018		8,786	8,819	8,849	8,887	8,907	8,934	8,984	9,002	9,024
2019		8,804	8,841	8,872	8,928	8,955	8,981	9,047	9,071	9,096
2020		8,812	8,844	8,870	8,962	8,995	9,027	9,098	9,134	9,166
2021		8,806	8,834	8,866	8,980	9,021	9,057	9,142	9,182	9,221
2022		8,804	8,835	8,870	9,007	9,052	9,093	9,201	9,246	9,289
2023		8,807	8,842	8,882	9,036	9,084	9,129	9,259	9,307	9,354
2024		8,815	8,853	8,897	9,071	9,123	9,171	9,322	9,374	9,425
2025		8,823	8,863	8,912	9,096	9,151	9,204	9,362	9,419	9,475
2026		8,840	8,883	8,934	9,134	9,191	9,248	9,423	9,484	9,544
2027		8,836	8,881	8,934	9,152	9,213	9,274	9,466	9,531	9,595
2028		8,807	8,853	8,909	9,143	9,207	9,272	9,482	9,552	9,620
2029		8,805	8,852	8,909	9,163	9,229	9,297	9,526	9,599	9,671
2030		8,784	8,831	8,888	9,160	9,228	9,299	9,546	9,622	9,698
2031		8,789	8,837	8,894	9,190	9,260	9,334	9,595	9,674	9,753
2032		8,787	8,838	8,898	9,199	9,272	9,349	9,624	9,708	9,790
2033		8,801	8,854	8,918	9,232	9,309	9,391	9,640	9,729	9,816
2034		8,794	8,851	8,919	9,250	9,330	9,418	9,686	9,780	9,871
2035		8,790	8,850	8,925	9,273	9,357	9,451	9,705	9,802	9,898
2036		8,816	8,880	8,960	9,295	9,383	9,480	9,763	9,867	9,963
2037		8,830	8,898	8,984	9,330	9,422	9,523	9,794	9,899	10,002
2038		8,832	8,904	8,996	9,332	9,428	9,533	9,825	9,933	10,040
2039		8,837	8,913	9,010	9,335	9,435	9,545	9,838	9,950	10,061
2040		8,836	8,916	9,019	9,316	9,421	9,535	9,840	9,955	10,070

<sup>1</sup>Developed from extrapolation of main forecasts. <sup>2</sup>Developed from interpolation between main forecasts.

## Historical and Projected Service Populations, by Economic Scenario, Mercer County, North Dakota 2002 - 2040

Year	Estimated	Low Scenarios			Moderate Scenarios			High Scenarios		
		Low <sup>1</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>1</sup>
2002	9,218									
2003	9,210									
2004	9,281									
2005	9,220									
2006	9,290									
2007	9,317									
2008	9,398									
2009	9,631									
2010	9,518									
2011	9,724									
2012	9,769									
2013	10,054									
2014	10,136									
2015	10,171									
2016		9,932	9,932	9,932	9,932	9,932	9,932	9,932	9,932	9,932
2017		9,869	9,893	9,905	9,930	9,959	9,974	10,010	10,040	10,053
2018		9,878	9,915	9,948	9,992	10,014	10,044	10,101	10,122	10,146
2019		9,887	9,929	9,964	10,027	10,058	10,087	10,162	10,189	10,217
2020		9,886	9,921	9,951	10,055	10,092	10,128	10,209	10,249	10,285
2021		9,867	9,899	9,934	10,063	10,110	10,150	10,247	10,291	10,335
2022		9,853	9,888	9,928	10,083	10,133	10,179	10,302	10,352	10,400
2023		9,846	9,884	9,929	10,103	10,157	10,207	10,354	10,408	10,461
2024		9,843	9,885	9,935	10,131	10,188	10,243	10,413	10,472	10,529
2025		9,839	9,885	9,939	10,147	10,208	10,268	10,446	10,510	10,572
2026		9,848	9,895	9,952	10,177	10,241	10,305	10,502	10,570	10,637
2027		9,831	9,881	9,940	10,185	10,253	10,321	10,538	10,610	10,682
2028		9,787	9,838	9,901	10,163	10,234	10,307	10,543	10,620	10,696
2029		9,773	9,825	9,888	10,173	10,246	10,322	10,580	10,661	10,740
2030		9,738	9,790	9,854	10,158	10,233	10,312	10,589	10,674	10,757
2031		9,732	9,785	9,848	10,179	10,257	10,339	10,630	10,719	10,806
2032		9,718	9,774	9,840	10,177	10,257	10,343	10,650	10,743	10,834
2033		9,721	9,780	9,851	10,201	10,286	10,377	10,655	10,753	10,850
2034		9,703	9,765	9,841	10,209	10,297	10,394	10,694	10,796	10,898
2035		9,686	9,752	9,834	10,222	10,314	10,418	10,702	10,808	10,914
2036		9,703	9,773	9,861	10,233	10,331	10,437	10,752	10,867	10,972
2037		9,706	9,781	9,875	10,259	10,361	10,472	10,773	10,888	11,002
2038		9,697	9,776	9,876	10,249	10,354	10,470	10,794	10,913	11,031
2039		9,690	9,773	9,880	10,240	10,350	10,471	10,795	10,918	11,040
2040		9,677	9,765	9,877	10,207	10,321	10,447	10,784	10,911	11,036

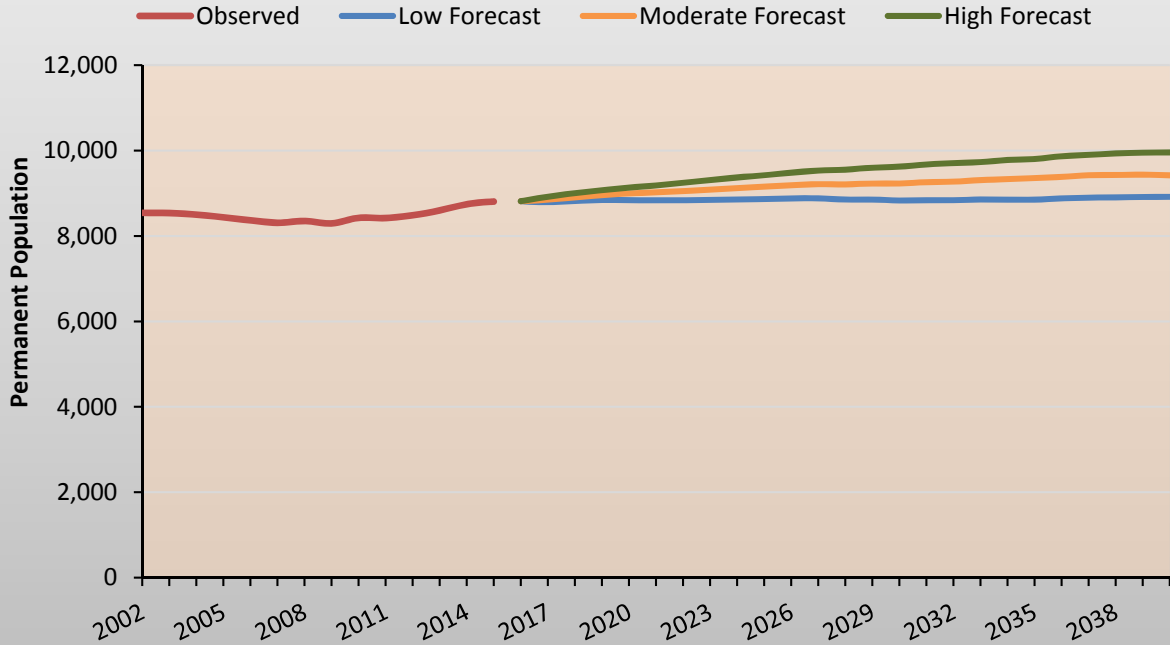
<sup>1</sup>Developed from extrapolation of main forecasts. <sup>2</sup>Developed from interpolation between main forecasts.

## Projected Permanent and Service Populations, by Economic Scenario, Mercer County, North Dakota 2017 – 2040

	Low Scenarios			Moderate Scenarios			High Scenarios		
	Low	Mid	High	Low	Mid	High	Low	Mid	High
----- Permanent Population -----									
Total Percentage Change in Population	0.2%	1.2%	2.3%	5.7%	6.9%	8.2%	11.6%	12.9%	14.2%
Average Annual Change in Population	1	4	9	21	25	30	43	48	52
Average Annual Percentage Change in Population	0.01%	0.05%	0.10%	0.23%	0.28%	0.33%	0.46%	0.51%	0.56%
----- Service Population -----									
Total Percentage Change in Population	-2.6%	-1.7%	-0.6%	2.8%	3.9%	5.2%	8.6%	9.8%	11.1%
Average Annual Change in Population	-10.62	-6.98	-2.28	11.45	16.21	21.44	35.48	40.76	46.00
Average Annual Percentage Change in Population	-0.11%	-0.07%	-0.02%	0.11%	0.16%	0.21%	0.34%	0.39%	0.44%

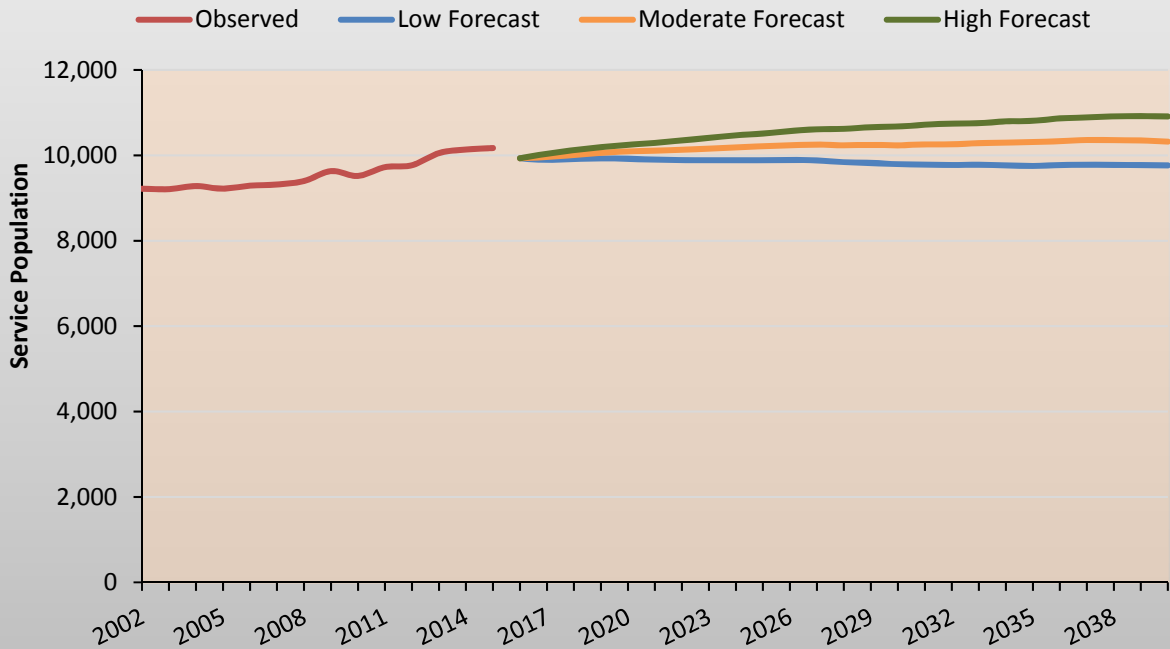
NOTE: Permanent population refers to individuals that live in permanent housing and are counted as residents of that respective geography. Service population is a head count of all individuals living in an area regardless of residency, even if some of those individuals reside in temporary, seasonal, or other undocumented lodging arrangements. Service population in this study also includes commuting workers who are employed in the county but retain permanent residence elsewhere.

### Mercer County Permanent Population

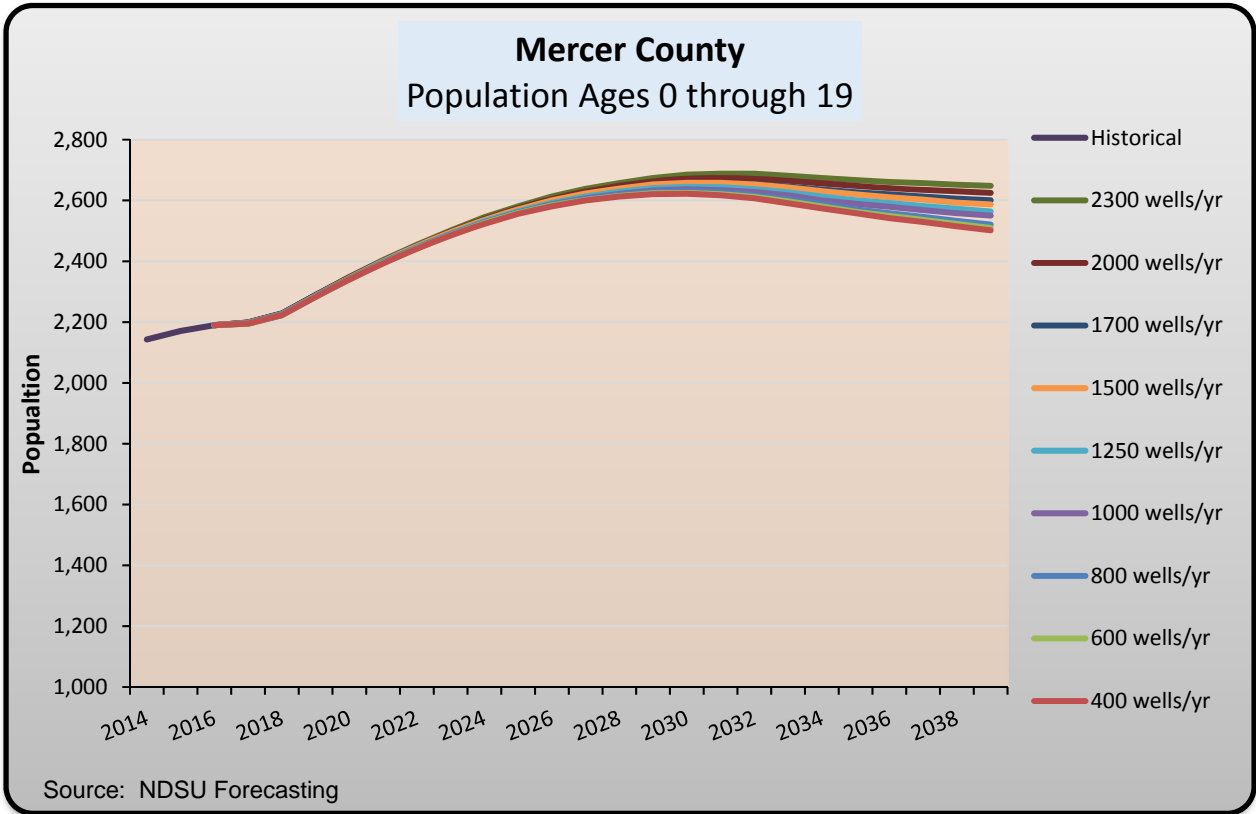
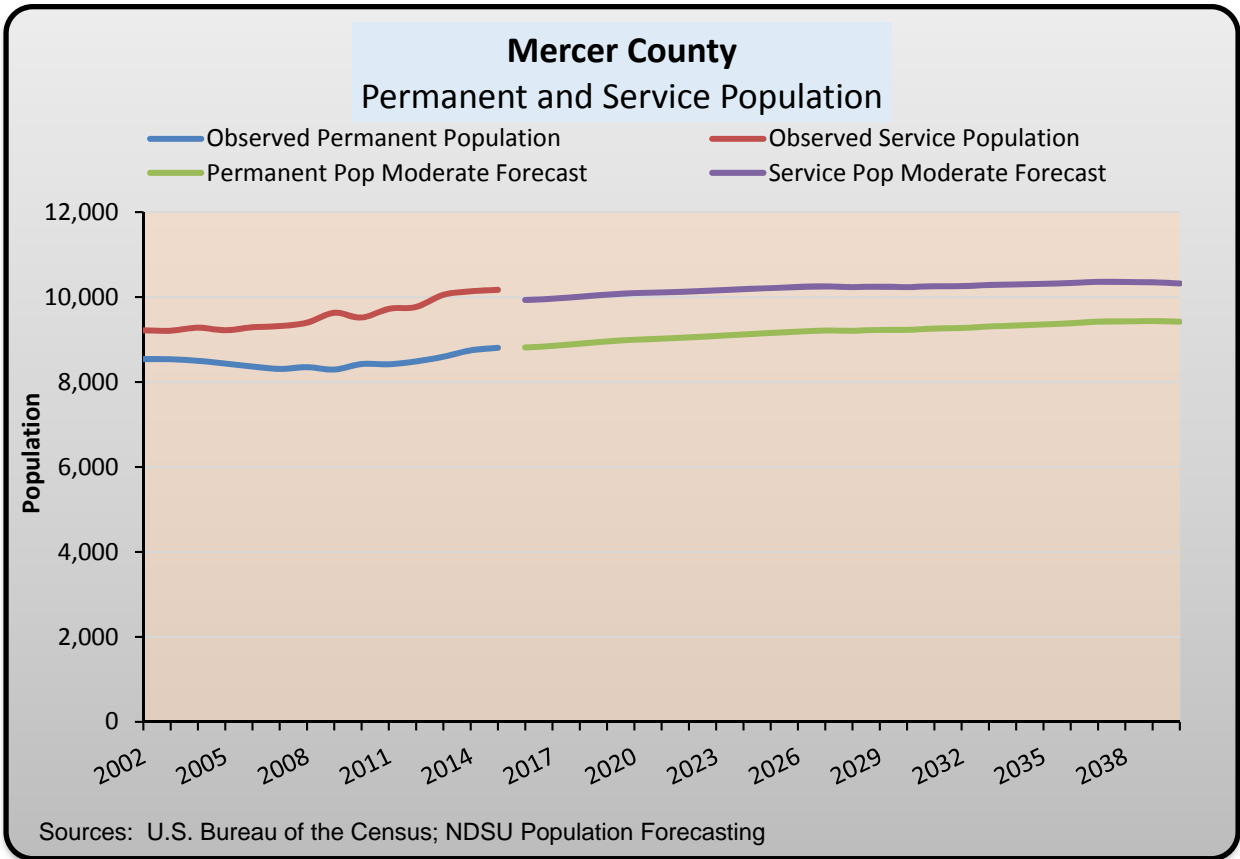


Sources: U.S. Bureau of the Census; NDSU Population Forecasting

### Mercer County Service Population



Source: U.S. Census; NDSU Population Forecasting



## Historical and Projected Population Ages 0 through 4, by Economic Scenario, Mercer County, North Dakota 2002 – 2039

Year	Actual	Low Scenarios			Moderate Scenarios			High Scenarios		
		Low <sup>1</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>1</sup>
2014	559									
2015	566									
2016	565									
2017		565	565	565	565	565	565	566	566	566
2018		564	564	564	565	565	565	566	566	566
2019		558	558	558	558	559	559	560	560	560
2020		555	555	555	555	556	557	557	558	559
2021		555	556	556	556	558	559	558	559	561
2022		559	560	560	559	561	564	560	563	566
2023		560	561	562	560	563	566	561	565	569
2024		558	559	561	559	562	566	561	566	571
2025		553	554	556	555	558	563	558	564	569
2026		544	546	548	548	551	556	553	559	565
2027		533	534	536	538	541	547	545	552	558
2028		521	522	525	528	531	537	537	544	549
2029		510	512	514	519	522	528	530	536	541
2030		500	502	504	510	513	518	522	528	533
2031		490	492	494	501	504	509	514	520	525
2032		481	483	485	493	496	501	507	512	517
2033		474	475	478	487	489	494	501	506	510
2034		469	471	473	482	485	489	497	502	506
2035		468	469	471	482	484	488	497	501	505
2036		470	472	474	485	487	491	500	503	507
2037		476	478	480	491	494	497	506	509	513
2038		486	488	490	501	504	507	516	519	522
2039		497	499	502	513	516	519	527	531	534

<sup>1</sup>Developed from extrapolation of main forecasts. <sup>2</sup>Developed from interpolation between main forecasts.

## Historical and Projected Population Ages 5 through 9, by Economic Scenario, Mercer County, North Dakota 2002 – 2039

Year	Actual	Low Scenarios			Moderate Scenarios			High Scenarios		
		Low <sup>1</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>1</sup>
2014	558									
2015	581									
2016	590									
2017		593	593	593	593	593	593	593	593	593
2018		607	607	607	607	607	607	607	607	607
2019		635	635	635	635	635	635	635	635	635
2020		654	654	654	654	654	654	654	654	654
2021		666	666	666	666	666	666	666	666	666
2022		672	672	672	673	673	673	673	673	673
2023		677	677	677	678	678	678	679	679	679
2024		680	681	681	681	682	682	683	683	684
2025		684	685	685	685	686	687	687	688	689
2026		689	690	691	690	692	694	692	694	696
2027		695	696	697	696	699	702	697	701	704
2028		697	698	699	697	701	705	699	704	708
2029		695	696	698	696	700	705	699	705	711
2030		689	690	692	691	695	702	696	703	710
2031		679	680	683	683	687	694	689	697	704
2032		665	667	669	671	675	682	680	688	696
2033		650	652	655	659	663	670	670	678	686
2034		636	638	641	646	650	657	660	668	675
2035		623	625	628	635	639	646	650	658	664
2036		611	613	616	625	629	635	641	648	654
2037		600	602	605	615	619	625	633	639	645
2038		591	593	596	607	611	616	625	631	637
2039		585	587	589	602	605	610	620	625	631

<sup>1</sup>Developed from extrapolation of main forecasts. <sup>2</sup>Developed from interpolation between main forecasts.

## Historical and Projected Population Ages 10 through 14, by Economic Scenario, Mercer County, North Dakota 2002 – 2039

Year	Actual	Low Scenarios			Moderate Scenarios			High Scenarios		
		Low <sup>1</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>1</sup>
2014	515									
2015	536									
2016	545									
2017		548	548	548	548	548	548	548	548	548
2018		563	563	563	563	563	563	563	563	563
2019		594	594	594	594	594	594	594	594	594
2020		622	622	622	622	622	622	622	622	622
2021		648	648	648	648	648	648	648	648	648
2022		671	671	671	671	671	671	671	671	671
2023		691	691	691	691	691	691	691	691	691
2024		709	709	709	709	709	709	709	709	709
2025		723	723	723	723	723	723	723	723	723
2026		734	734	734	734	734	734	734	734	734
2027		741	741	741	741	741	741	742	742	742
2028		747	747	747	748	748	748	749	749	749
2029		751	751	751	752	752	753	753	754	754
2030		755	755	756	756	757	758	758	759	760
2031		760	761	762	761	763	765	763	766	768
2032		767	768	769	768	770	774	769	773	777
2033		768	770	771	769	773	777	771	777	781
2034		766	768	770	767	772	778	771	778	784
2035		759	761	763	762	766	773	767	775	782
2036		747	749	752	752	757	764	760	768	776
2037		732	734	737	739	743	751	749	758	766
2038		715	718	721	725	730	737	738	747	755
2039		700	702	705	712	716	724	727	735	743

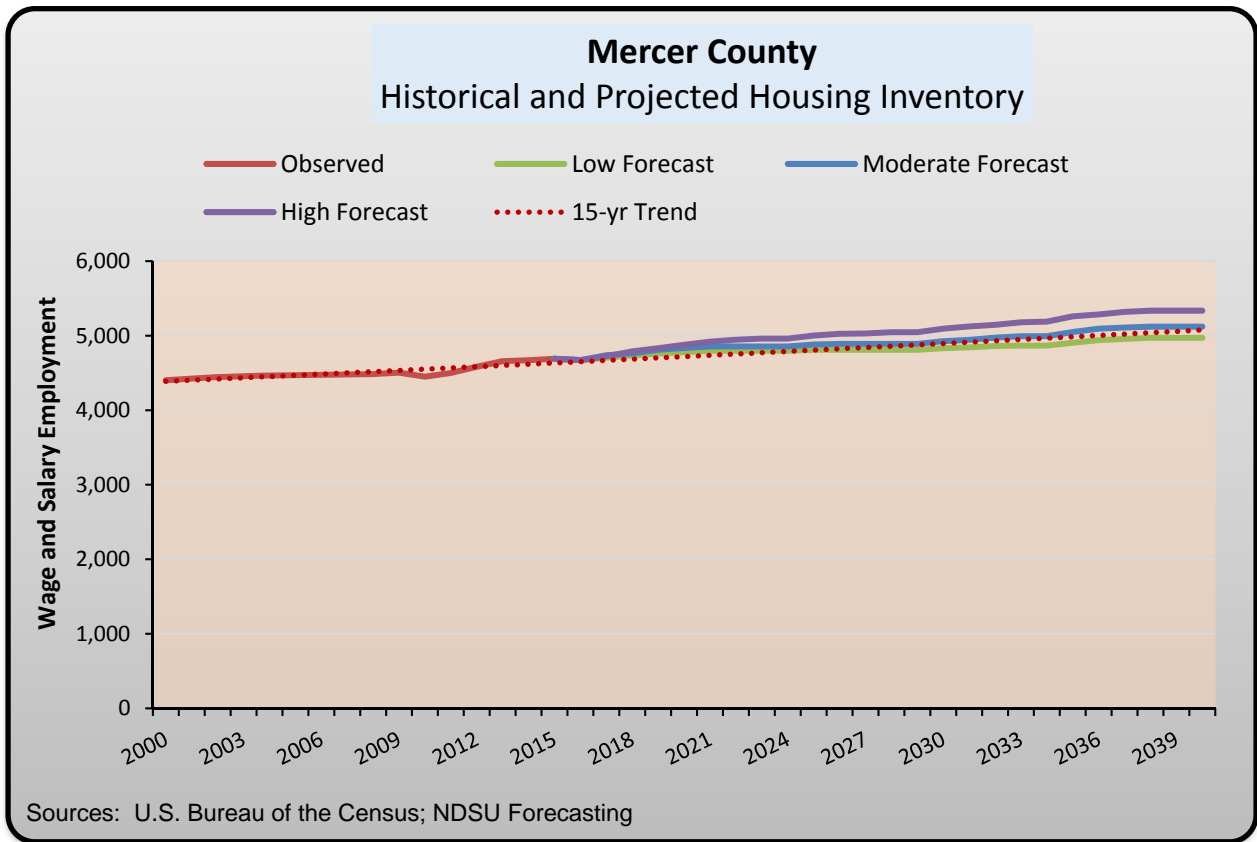
<sup>1</sup>Developed from extrapolation of main forecasts. <sup>2</sup>Developed from interpolation between main forecasts.



## Historical and Projected Population Ages 15 through 19, by Economic Scenario, Mercer County, North Dakota 2002 – 2039

Year	Actual	Low Scenarios			Moderate Scenarios			High Scenarios		
		Low <sup>1</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>2</sup>	Low <sup>2</sup>	Mid	High <sup>1</sup>
2014	511									
2015	488									
2016	490									
2017		489	489	489	490	491	491	492	492	492
2018		489	489	489	490	491	491	492	492	493
2019		496	497	497	498	498	498	500	500	500
2020		509	509	510	511	511	512	513	513	514
2021		524	524	525	526	526	527	528	528	529
2022		539	540	540	541	542	542	544	544	544
2023		557	557	557	559	559	560	562	562	562
2024		576	577	577	578	579	579	581	581	581
2025		596	596	596	597	598	598	600	600	600
2026		614	614	614	615	615	616	617	617	618
2027		631	631	631	632	632	633	634	634	634
2028		648	648	648	649	649	649	651	651	651
2029		665	665	665	666	667	667	668	668	668
2030		678	678	678	680	680	680	681	682	682
2031		688	688	688	689	690	690	691	691	691
2032		694	694	694	696	696	696	698	698	698
2033		699	700	700	702	702	702	704	704	704
2034		703	703	704	705	706	707	708	708	709
2035		708	708	709	710	712	713	713	714	716
2036		714	715	716	717	719	721	719	722	724
2037		721	722	724	723	726	730	725	729	733
2038		723	724	726	725	728	733	727	733	738
2039		720	722	725	723	727	734	727	734	740

<sup>1</sup>Developed from extrapolation of main forecasts. <sup>2</sup>Developed from interpolation between main forecasts.

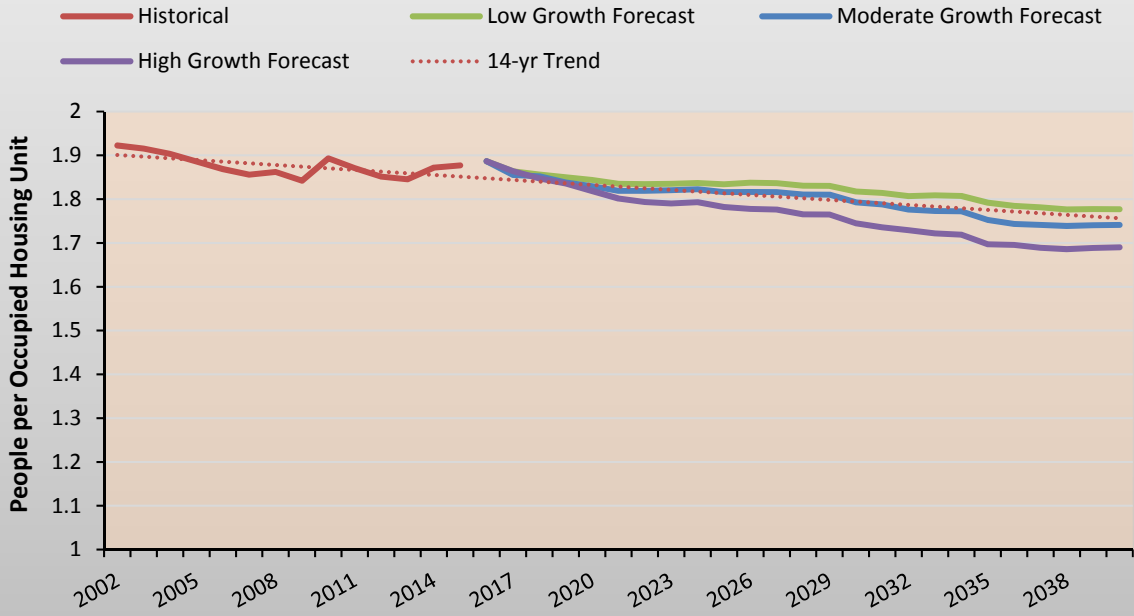


### Projected Housing Inventory Requirements for Permanent Population, by Economic Scenario, Mercer County, North Dakota 2017 – 2040

	Low Scenarios			Moderate Scenarios			High Scenarios		
	Low	Mid	High	Low	Mid	High	Low	Mid	High
----- Permanent Housing -----									
Total Percentage Change in Housing	na	6.4%	na	na	9.6%	na	na	14.2%	na
Average Annual Change in Housing (no. of units)	na	12.50	na	na	18.71	na	na	27.67	na
Average Annual Percentage Change in Housing	na	0.26%	na	na	0.38%	na	na	0.56%	na

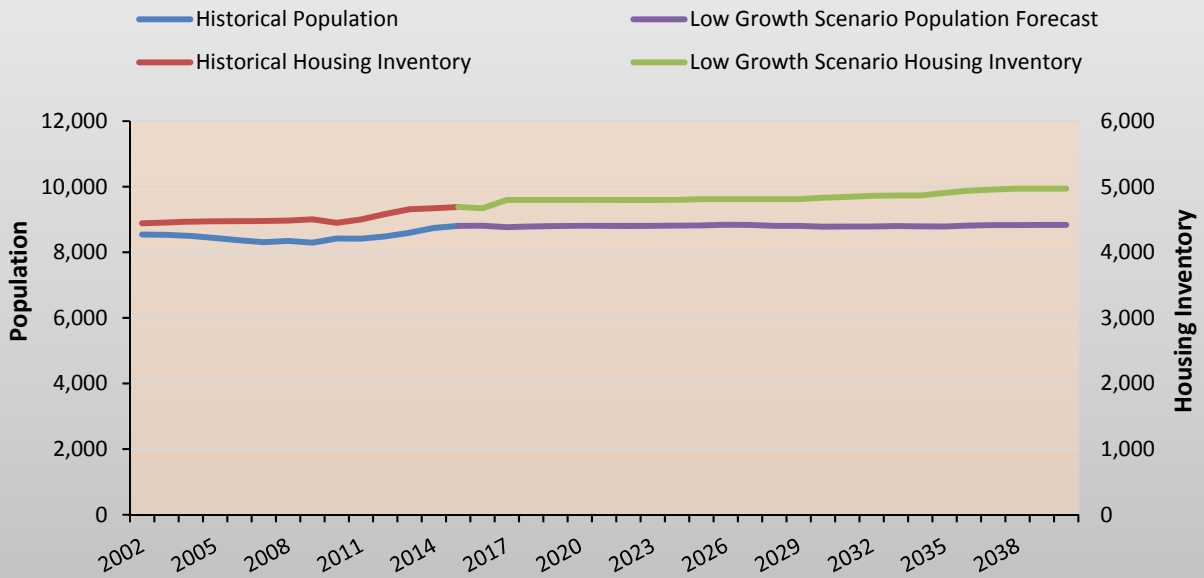
NA=not available. Projected housing inventories were only estimated for the medium rig count for the low, moderate, and high oil price scenarios.

## Mercer County People per Occupied Housing Unit



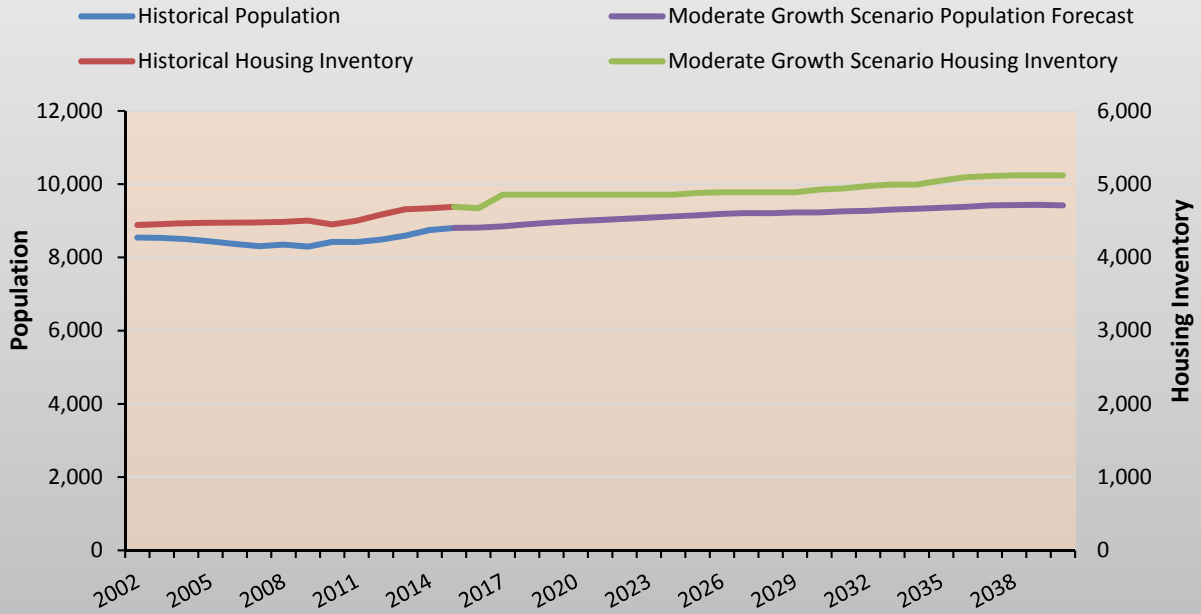
Sources: U.S. Bureau of the Census; NDSU Forecasting

## Mercer County Population and Housing Inventories



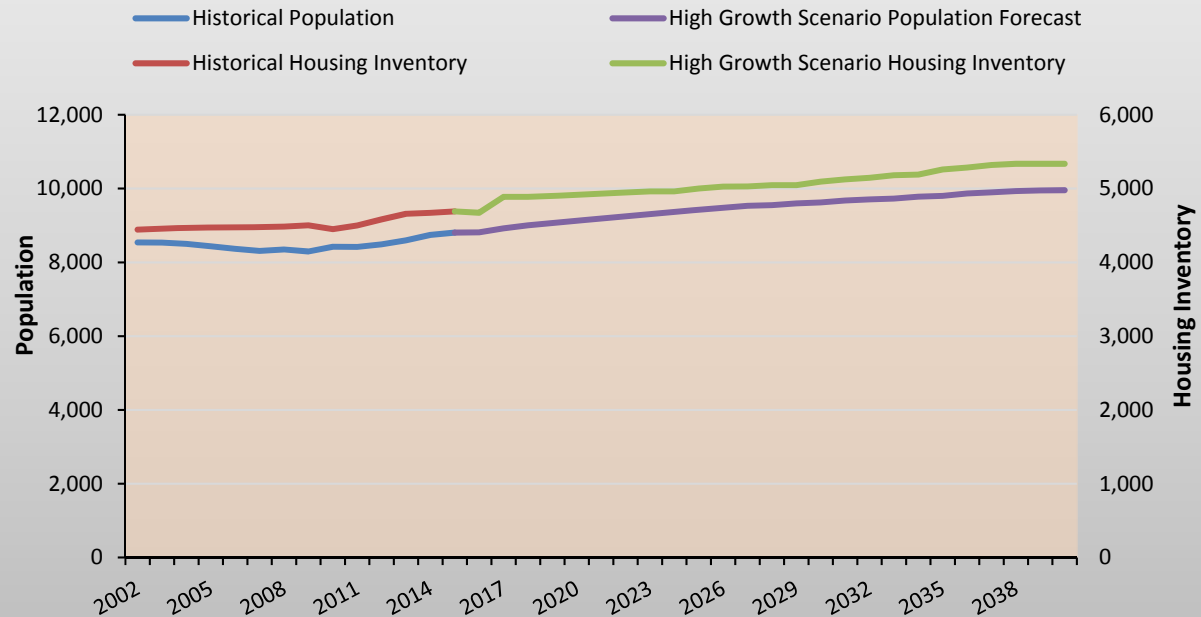
Sources: U.S. Bureau of the Census; NDSU Forecasting

## Mercer County Population and Housing Inventories



Sources: U.S. Bureau of the Census; NDSU Forecasting

## Mercer County Population and Housing Inventories



Sources: U.S. Bureau of the Census; NDSU Forecasting

## Historical and Projected Rates of Change in Housing Inventories, Mercer County, North Dakota, 2000 to 2035

	Historical Periods		
	15-year 2000-2015	10-year 2005-2015	5-year 2010-2015
Change in Housing Inventories			
Housing Units Added (total) <sup>1</sup>	289	217	241
Housing Units Added (annual average) <sup>1</sup>	19.3	21.7	48.2

	Economic Growth Scenarios 2016 to 2035		
	Low	Moderate	High
Housing Units Required (total additional) <sup>2</sup>	233	378	587
Housing Units Required (average annual) <sup>2</sup>	12	19	29

<sup>1</sup>Based on 2000 and 2010 Decennial Censuses and 2016 North Dakota Statewide Housing Needs Assessment.

<sup>2</sup>Based on 2015 housing inventories reported in the 2016 North Dakota Statewide Housing Needs Assessment.

## Additional Resources

### 2016 Statewide Housing Needs Assessment

Link to report: <https://www.ndhfa.org/Publications/HousingNeeds.html>

### NDSU Department of Agribusiness and Applied Economics

Links to departmental reports: <http://ageconsearch.umn.edu/>  
<https://www.ag.ndsu.edu/agecon/>

### NDSU Center for Social Research

Link to the Center: <https://www.ndsu.edu/csr/>

### North Dakota Compass and North Dakota Kids Count

Links to programs: <http://www.ndcompass.org/>  
<http://www.ndkidscount.org/>

### Vision West ND

Link to their website: <http://www.visionwestnd.com/>

### North Dakota Job Service

Links to Job Service North Dakota reports pertaining to oil and gas industry  
North Dakota's Oil and Gas Economy

<https://www.ndworkforceintelligence.com/gsipub/index.asp?docid=578>

North Dakota Oil and Gas Industry Employment

<https://www.ndworkforceintelligence.com/gsipub/index.asp?docid=586>

### Census on the Map

Link to data portal: <http://onthemap.ces.census.gov/>

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