## **OVERWEIGHT**

Definition: Overweight is defined as having a Body Mass Index (BMI) of 25.0 or above. Body Mass Index (BMI) is calculated by taking a person's body weight in pounds, divided by their height in inches, divided by height in inches (again) times 703. The mathematical equation for BMI is: weight (Ib)/height (in)<sup>2</sup> x 703.

## Prevalence of Overweight

- South Dakota 72%
- Nationwide median 68%

## Trend Analysis

Overall, the percent of South Dakotans who are overweight has been increasing since 2011. In 2021, the overweight percent for South Dakotans is the highest it has ever been at 72 percent. The nationwide median for overweight is 68 percent, while South Dakota exceeds that with 72 percent.

Figure 1 Percentage of South Dakotans Who Are Overweight Based on Body Mass Index, 2011-2021

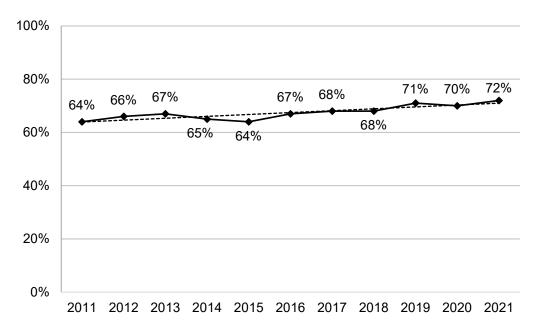


Table 4 South Dakotans Who Are Overweight, 2017-2021				
			95% Confidence Interval	
		2017-2021	Low	High
<b>.</b> .	Male	75%	73.2%	76.2%
Gender	Female	64%	62.5%	65.5%
	18-29	53%	49.5%	55.6%
	30-39	69%	66.5%	72.2%
	40-49	77%	74.3%	79.4%
Age	50-59	78%	75.9%	80.0%
3 -	60-69	77%	74.9%	78.7%
	70-79	73%	70.9%	75.4%
	80+	61%	57.5%	65.0%
	White, Non-Hispanic	69%	68.4%	70.6%
	American Indian, Non-Hispanic	78%	74.5%	81.0%
Race/Ethnicity	American Indian/White, Non-Hispanic	75%	63.7%	84.2%
	Hispanic	71%	62.9%	78.0%
	Less than \$35,000	68%	66.2%	70.6%
Household Income	\$35,000-\$74,999	72%	70.4%	74.2%
nousenoiu income	\$75,000+	72%	69.3%	73.0%
			66.9%	
	Less than High School, G.E.D.	72%		75.9%
Education	High School, G.E.D.	70%	67.5%	71.4%
	Some Post-High School	70%	68.1%	71.8%
	College Graduate	69%	66.8%	70.3%
	Employed for Wages	71%	69.0%	72.1%
	Self-employed	74%	71.3%	77.1%
	Unemployed	69%	62.9%	74.3%
Employment Status	Homemaker	63%	56.8%	69.6%
	Student	42%	35.8%	47.8%
	Retired	72%	70.2%	73.6%
	Unable to Work	73%	68.3%	77.6%
	Married/Unmarried Couple	73%	71.9%	74.5%
Marital Status	Divorced/Separated	75%	71.9%	77.1%
	Widowed	65%	61.7%	68.1%
	Never Married	60%	56.7%	62.2%
Home Ownership	Own Home	73%	71.6%	73.9%
Status	Rent Home	63%	60.9%	65.9%
Children Status	Children in Household (Ages 18-44)	67%	64.7%	69.7%
Cilluren Status	No Children in Household (Ages 18-44)	58%	54.7%	60.7%
Dhone Status	Landline	72%	70.2%	73.2%
Phone Status	Cell Phone	69%	67.6%	70.2%
D	Pregnant (Ages 18-44)	-	-	-
Pregnancy Status	Not Pregnant (Ages 18-44)	59%	56.5%	62.2%
	Minnehaha	69%	66.3%	71.4%
County	Pennington	69%	66.8%	71.6%
	Lincoln	66%	60.5%	70.7%
	Brown	72%	69.4%	74.8%
	Brookings	61%	57.1%	65.2%
	Codington	71%	68.5%	74.1%
	Meade	64%	59.5%	69.0%

- **Gender** Males exhibit a significantly higher prevalence of being overweight than females.
- Age The prevalence of being overweight peaks for those in their 50s, including significant increases as the 30s and 40s are reached. After that, the prevalence of being overweight decreases as age increases, with a significant decrease as the 80s are reached.
- Race/American Indians demonstrate a very high prevalence of being overweight,Ethnicitywhile whites show a very low prevalence.
- HouseholdThe prevalence of being overweight does not seem to consistently change as<br/>household income increases.
- **Education** The prevalence of being overweight decreases as education levels increase.
- **Employment** Those who are employed for wages, self-employed, unemployed, retired, or unable to work demonstrate a very high prevalence of being overweight, while those who are a student show a very low prevalence.
- MaritalThose who are married or divorced exhibit a very high prevalence of being<br/>overweight, while those who are widowed or have never been married show a<br/>very low prevalence.
- HomeThose who own their home show a significantly higher prevalence of being<br/>overweight than those who rent their home.

# ChildrenThose adults with children in the household demonstrate a significantly higherStatusprevalence of being overweight than those with no children.

- **Phone Status** The prevalence of being overweight does not seem to differ based on phone status.
- **County** Minnehaha, Pennington, Brown, and Codington counties demonstrate a very high prevalence of being overweight, while Brookings and Meade counties show a very low prevalence.

## **OBESE**

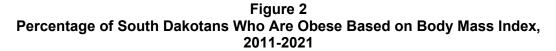
Definition: Obese is defined as having a Body Mass Index (BMI) of 30.0 or greater. Body Mass Index (BMI) is calculated by taking a person's body weight in pounds divided by height in inches, divided by height in inches (again) times 703. The mathematical equation for BMI is weight (lb)/height (in)<sup>2</sup> x 703.

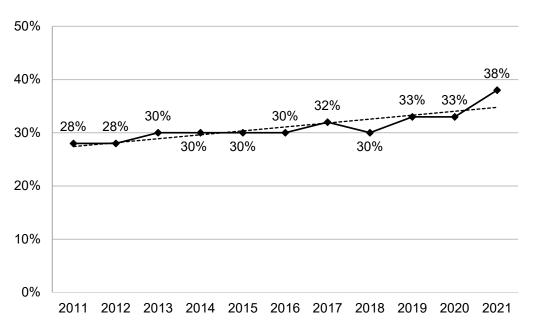
## Prevalence of Obesity

- o South Dakota 38%
- Nationwide median 34%

## Trend Analysis

Overall, the percent of South Dakotans who are obese has been increasing since 2011 including a 15 percent increase from 2020 to 2021. In 2021, the obese percent is the highest it has ever been with 38 percent. The nationwide median for obese is 34 percent while South Dakota exceeds that with 38 percent.





		2017-2021	95% Confidence Interval		
			Low	High	
• •	Male	34%	32.7%	35.7%	
Gender	Female	32%	30.8%	33.9%	
	18-29	23%	20.3%	25.2%	
	30-39	35%	31.7%	38.0%	
	40-49	38%	35.4%	41.7%	
Age	50-59	39%	36.9%	42.0%	
-3-	60-69	38%	36.1%	40.6%	
	70-79	33%	30.9%	36.0%	
	80+	21%	18.0%	24.9%	
	White, Non-Hispanic	32%	30.9%	33.1%	
	American Indian, Non-Hispanic	47%	42.4%	51.5%	
Race/Ethnicity	American Indian/White, Non-Hispanic	44%	33.2%	56.3%	
	Hispanic	42%	33.8%	49.8%	
	Less than \$35,000	36%	34.2%	38.8%	
lousehold	\$35,000-\$74,999	34%	31.8%	35.7%	
ncome	\$75,000+	32%	29.9%	33.9%	
	Less than High School, G.E.D.	39%	33.7%	44.0%	
	High School, G.E.D.	34%	31.9%	35.9%	
Education	Some Post-High School	33%	31.6%	35.2%	
	College Graduate	31%	29.1%	32.5%	
	Employed for Wages	34%	32.1%	35.4%	
	Self-employed	35%	31.6%	38.1%	
	Unemployed	36%	30.4%	41.8%	
Employment	Homemaker	33%	26.0%	40.1%	
Status	Student	17%	13.4%	22.2%	
	Retired	32%	30.1%	33.9%	
	Unable to Work	48%	42.8%	52.9%	
	Married/Unmarried Couple	35%	33.3%	36.1%	
	Divorced/Separated	36%	33.2%	39.4%	
Marital Status	Widowed	28%	25.4%	31.6%	
	Never Married	30%	27.3%	32.3%	
llama Ourrandia	Own Home	34%	32.7%	35.2%	
Home Ownership Status	Rent Home	33%	30.1%	35.2%	
อเสเนร					
Children Status	Children in Household (Ages 18-44)	32%	30.0%	35.0%	
	No Children in Household (Ages 18-44)	26%	23.9%	29.2%	
Phone Status		34%	32.2%	35.4%	
	Cell Phone	33%	31.8%	34.5%	
Pregnancy Status	Pregnant (Ages 18-44)	-	-	-	
5	Not Pregnant (Ages 18-44)	30%	27.5%	33.0%	
	Minnehaha	33%	30.5%	35.7%	
County	Pennington	33%	30.2%	35.2%	
	Lincoln	29%	24.6%	33.5%	
	Brown	36%	33.0%	38.7%	
	Brookings	26%	22.7%	28.5%	
	Codington	34%	31.5%	37.2%	
	Meade	26%	22.9%	30.0%	

Income

Gender	The prevalence of obesity does not seem to differ by gender.
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Age The prevalence of obesity peaks for those in their 50s including a significant increase as the 30s are reached. After that, the prevalence of obesity decreases as age increases with significant decreases as the 70s and 80s are reached.

**Race**/ Whites demonstrate a significantly lower prevalence of obesity than all other races/ethnicities.

- Household The prevalence of obesity decreases as household income increases.
- **Education** The prevalence of obesity decreases as education levels increase.
- **Employment** Those who are unable to work demonstrate a very high prevalence of obesity, while those who are a student show a very low prevalence.

MaritalThose who are married or divorced exhibit a very high prevalence of obesity,Statuswhile those who are widowed or have never been married show a very low<br/>prevalence.

- HomeThe prevalence of obesity does not seem to differ based on home ownershipOwnershipstatus.
- ChildrenThose who live in a household with children demonstrate a significantly higherStatusprevalence of being obese than those who live in a household with no<br/>children.
- **Phone Status** The prevalence of obesity does not seem to differ based on phone status.
- **County** Minnehaha, Pennington, Brown, and Codington counties demonstrate a very high prevalence of obesity, while Brookings and Meade counties show a very low prevalence.

## SEVERELY OBESE

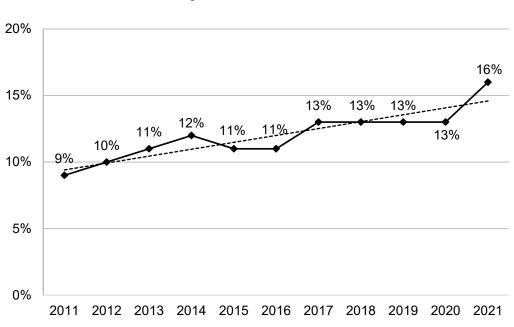
Definition: Severely obese is defined as having a Body Mass Index (BMI) of 35.0 or greater. Body Mass Index (BMI) is calculated by taking a person's body weight in pounds divided by height in inches, divided by height in inches (again) times 703. The mathematical equation for BMI is: weight (Ib)/height (in)<sup>2</sup> x 703.

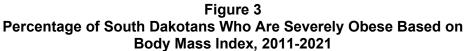
## Prevalence of Severe Obesity

- o South Dakota 13%
- There is no nationwide median for severely obese

## **Trend Analysis**

Overall, the percent of South Dakotans who are severely obese has been increasing since 2011. From 2020 to 2021, this percent increased from 13 percent to 16 percent.





			95% Confidence Interval		
		2017-2021	Low	High	
Gender	Male	13%	11.7%	13.8%	
	Female	14%	13.2%	15.4%	
	18-29	10%	8.3%	11.8%	
	30-39	14%	11.9%	16.1%	
	40-49	17%	14.4%	19.7%	
Age	50-59	17%	14.8%	18.6%	
-9-	60-69	15%	13.3%	16.7%	
	70-79	12%	10.1%	13.3%	
	80+	6%	4.3%	8.5%	
	White, Non-Hispanic	13%	12.1%	13.8%	
	American Indian, Non-Hispanic	19%	16.0%	22.0%	
Race/Ethnicity	American Indian/White, Non-Hispanic	19%	10.3%	31.7%	
	Hispanic	17%	12.1%	24.5%	
	Less than \$35,000	17%	15.1%	18.6%	
lousehold Income	\$35,000-\$74,999	14%	12.5%	15.3%	
	\$75,000-\$74,999 \$75,000+	14%	9.6%	12.3%	
	Less than High School, G.E.D.	17%	13.4%	21.6%	
	High School, G.E.D.	14%	12.5%	15.3%	
Education	Some Post-High School	13%	12.1%	14.6%	
	College Graduate	12%	10.9%	13.3%	
	Employed for Wages	14% 12%	12.7% 10.2%	<u> </u>	
	Self-employed				
manles meant Otature	Unemployed	16%	12.6%	21.3%	
Employment Status	Homemaker	15%	9.8%	22.2%	
	Student	8%	5.0%	11.5%	
	Retired	11% 28%	9.8%	12.3%	
	Unable to Work		24.0%	33.4%	
	Married/Unmarried Couple	13%	12.2%	14.3%	
Aarital Status	Divorced/Separated	15%	13.3%	17.6%	
	Widowed	12%	9.6%	14.5%	
	Never Married	14%	12.0%	15.4%	
Home Ownership	Own Home	13%	12.2%	14.0%	
Status	Rent Home	15%	13.3%	16.8%	
Children Status	Children in Household (Ages 18-44)	13%	11.2%	14.6%	
	No Children in Household (Ages 18-44)	12%	10.1%	13.9%	
Phone Status	Landline	14%	12.8%	15.3%	
	Cell Phone	13%	12.3%	14.3%	
Progranov Status	Pregnant (Ages 18-44)	-	-	-	
regnancy Status	Not Pregnant (Ages 18-44)	13%	11.6%	15.4%	
	Minnehaha	13%	10.9%	14.5%	
County	Pennington	14%	11.8%	15.6%	
	Lincoln	11%	8.1%	13.9%	
	Brown	14%	12.4%	16.3%	
	Brookings	12%	9.7%	13.7%	
	Codington	14%	12.4%	16.4%	
	Meade	10%	8.3%	13.1%	

- **Gender** The prevalence of severe obesity does not seem to differ based on gender.
- Age The prevalence of being severely obese peaks in the 40s and 50s. This includes a significant increase as the 30s are reached. After that, the prevalence of being severely obese decreases as age increases with a significant decrease as the 80s are reached.
- Race/American Indians demonstrate a very high prevalence of being severely obese,Ethnicitywhile whites show a very low prevalence.
- **Household** The prevalence of being severely obese decreases as household income increases. This includes a significant decrease as the \$75,000+ income group is reached.
- **Education** The prevalence of being severely obese decreases as education levels increase.
- **Employment** Those who are unable to work demonstrate a very high prevalence of being severely obese, while those who are self-employed, a homemaker, a student, or retired show a very low prevalence.
- MaritalThe prevalence of being severely obese does not seem to differ based on<br/>marital status.
- HomeThe prevalence of being severely obese does not seem to differ based on homeOwnershipownership status.
- ChildrenThe prevalence of the adults being severely obese does not seem to differStatusbased on the presence of children in the household.
- **Phone Status** The prevalence of being severely obese does not seem to differ based on phone status.
- **County** The prevalence of being severely obese does not seem to differ among the available counties.

## **MORBIDLY OBESE**

Definition: Morbidly obese is defined as having a Body Mass Index (BMI) of 40.0 or greater. Body Mass Index (BMI) is calculated by taking a person's body weight in pounds divided by height in inches, divided by height in inches (again) times 703. The mathematical equation for BMI is: weight (Ib)/height (in)<sup>2</sup> x 703.

## Prevalence of Morbid Obesity

- o South Dakota 5%
- o There is no nationwide median for morbid obesity

## **Trend Analysis**

The percent of South Dakotans who are morbidly obese has been increasing since 2011. From 2020 to 2021, this percent increased from 5 percent to 7 percent.

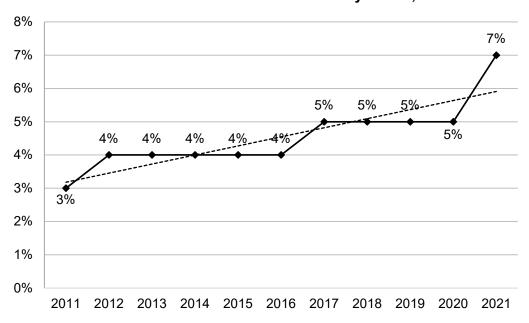


Figure 4 Percent of South Dakotans Who are Morbidly Obese, 2011-2021

	South Dakotans Who Are Mor	bidly Obese, 2			
			95% Confidence Interval		
		2017-2021	Low	High	
Condou	Male	5%	4.1%	5.5%	
Gender	Female	6%	5.2%	6.9%	
	18-29	4%	2.8%	5.2%	
	30-39	7%	5.7%	8.7%	
	40-49	7%	5.2%	9.6%	
Age	50-59	6%	5.2%	7.8%	
•	60-69	5%	4.4%	6.4%	
	70-79	3%	2.6%	4.3%	
	80+	2%	0.8%	3.5%	
	White, Non-Hispanic	5%	4.5%	5.6%	
	American Indian, Non-Hispanic	7%	5.7%	9.5%	
Race/Ethnicity	American Indian/White, Non-Hispanic	6%	2.3%	14.2%	
	Hispanic	10%	5.7%	16.3%	
	Less than \$35,000	7%	6.0%	8.6%	
lousehold	\$35,000-\$74,999	5%	4.1%	5.8%	
ncome	\$75,000+	4%	3.2%	5.2%	
	Less than High School, G.E.D.	7%	4.4%	11.1%	
	High School, G.E.D.	6%	5.0%	7.0%	
Education	Some Post-High School	5%	4.1%	5.7%	
	College Graduate	5%	3.9%	5.5%	
	Employed for Wages	5%	4.7%	6.3%	
	Self-employed	4%	2.9%	5.5%	
	Unemployed	8%	5.1%	11.5%	
Employment	Homemaker	8%	4.3%	15.3%	
Status	Student	3%	1.5%	6.9%	
	Retired	4%	2.9%	4.4%	
	Unable to Work	15%	11.6%	19.0%	
	Married/Unmarried Couple	5%	4.3%	5.9%	
	Divorced/Separated	6%	5.0%	7.9%	
Marital Status	Widowed	4%	3.0%	5.2%	
	Never Married	6%	5.0%	7.2%	
Home Ownership Status	Own Home	5%	4.3%	5.6%	
	Rent Home	6%	5.3%	7.7%	
otatao	Children in Household (Ages 18-44)	5%	4.2%	6.5%	
Children Status	No Children in Household (Ages 18-44)	<u> </u>	4.2%	7.3%	
Phone Status	Landline Cell Phone	5% 5%	<u>4.7%</u> 4.6%	<u>6.4%</u> 6.0%	
			4.0%	0.0%	
Pregnancy Status	Pregnant (Ages 18-44)	-	-	-	
	Not Pregnant (Ages 18-44)	6%	4.9%	7.5%	
	Minnehaha	5%	4.3%	6.8%	
County	Pennington	5%	4.2%	6.7%	
	Lincoln	4%	2.7%	6.6%	
	Brown	6%	4.8%	7.8%	
	Brookings	5%	3.8%	6.5%	
	Codington	5%	4.1%	6.4%	
	Meade	4%	3.1%	6.1%	

- **Gender** The prevalence of morbid obesity does not seem to differ based on gender.
- Age The prevalence of morbid obesity peaks with those in their 30s and 40s. This includes a significant increase as the 30s are reached and a significant decrease as the 70s are reached.
- Race/American Indians and Hispanics exhibit a very high prevalence of morbid<br/>obesity, while whites show a very low prevalence.
- **Household** The prevalence of morbid obesity decreases as household income increases. **Income** This includes a significant decrease as the \$35,000-\$74,999 income group is reached.
- **Education** The prevalence of morbid obesity decreases as education levels increase.
- **Employment** Those who are unable to work demonstrate a very high prevalence of morbid obesity, while those who are self-employed, a student, or retired show a very low prevalence.
- **Marital Status** The prevalence of morbid obesity does not seem to differ based on marital status.
- HomeThe prevalence of morbid obesity does not seem to differ based on homeOwnershipownership status.
- ChildrenThe prevalence of the adults being morbidly obese does not seem to differStatusbased on the presence of children in the household.
- **Phone Status** The prevalence of morbid obesity does not seem to differ based on phone status.
- **County** The prevalence of morbid obesity does not seem to differ among the available counties.