

# Buchanan County, IA

## Community Health Needs Assessment (CHNA) Report

---



**Public Health**  
Prevent. Promote. Protect.  
Buchanan County Public Health

For additional information about this report, CONTACT:

Name	Organization	Phone	Email
Buchanan County, IA	Buchanan County Public Health Department	319-332-0860	publichealth@co.buchanan.ia.us

**Date Revised: February 10, 2015**

## Promote Healthy Living Assessment

includes topics such as addictive behaviors (tobacco, alcohol, drugs, gambling), chronic disease (mental health, cardiovascular disease, cancer, asthma, diabetes, arthritis, etc.), elderly wellness, family planning, infant, child & family health, nutrition and healthy food options, oral health, physical activity, pregnancy & birth, and wellness.

Healthy Living Community Priority	Rationale / Specific Need	Is this priority in the HIP?	If the priority is not addressed in the HIP, reason(s) why:
<p>1 Healthy Lifestyles &amp; Behaviors at All Ages</p>	<p>Overweight/Obesity- According to the 2011 Buchanan County Health Snapshot 72% of adults in Buchanan County are considered overweight/obese (Iowa's rate=67%).</p> <p>Factors contributing to obesity/healthy lifestyle:                      1) Lack of physical activity-According to the 2011 Buchanan County Health Snapshot 70% of Buchanan County residents report sufficient physical activity (Iowa's rate=75%).</p> <p>2)Food insecurities/Nutritional deficits-In 2013 there was 561 un-duplicated WIC participants (data from WIC coordinator); the food pantries was accessed 2,373 times in 2013 (data from Independence Area Food Pantry); ISU extension survey results show 96% participants felt local food systems were important; According to the Health in Iowa 2013 Annual Report only 39% of Iowans consume less than 1 fruit/day and 27% consume less than 1 vegetable/day.</p> <p>3)Built environments-According to CDC Environmental Public Health Tracking Network, only 35-41% of Iowans live within 1/2 mile from a park; Buchanan County focus groups, surveys, and windshield assessments indicate community planning and design are important, including the need for new sidewalks/trails and repair of older ones throughout the county. In addition to methods to improve traffic flow and increase pedestrian safety promoting a healthier lifestyle.</p> <p>4) Prenatal care-According to the 2011 Buchanan County Health Snapshot, 27% of pregnant mothers in Buchanan County did not receive prenatal care in the first trimester (Iowa's rate=17.5%). Buchanan County is home to a large Amish settlement and this is a culture who does not typically seek routine prenatal care. The majority of Amish women choose home births.</p>	<p>Yes</p>	<p><input type="checkbox"/> Other priorities rated higher</p> <p><input type="checkbox"/> Existing programs already address problem/need</p> <p><input type="checkbox"/> Lack of human resources/staff</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> Community partners do not exist</p> <p><input type="checkbox"/> Lead organization does not exist</p> <p><input type="checkbox"/> Lack of financial resources</p>

\*Relates to Substance Abuse, Chronic Disease, Unintentional Injuries, Intentional Injuries, Environmental Risks, Communicable Disease, Immunizations, Community Preparedness, Healthcare Workforce, & Social Determinants Priorities

Healthy Living Community Priority	Rationale / Specific Need	Is this priority in the HIP?	If the priority is not addressed in the HIP, reason(s) why:
2 Substance Abuse	<p>Alcohol use (binge drinking)-According to the 2011 Buchanan County Health Snapshot 26% of Buchanan County, IA residents report binge drinking (Iowa's rate=21%). In 2013, approximately 60-1st offense, 13-2nd offense, and 4-3+ OWI offenses occurred (Buchanan County Attorney's Office Data).</p> <p>Tobacco use/Nicotine use- According to the 2011 Buchanan County Health Snapshot 25% of Buchanan County adults smoke (Iowa's rate=20%).</p> <p>Illegal drug use-According to the Iowa Youth Survey, 9% of 11th graders in Buchanan County currently smoke marijuana and 22% have tried it. In 2013 there was 21 felonies and 45 indictable misdemeanors filed or reopened related to drugs in Buchanan County (Buchanan County Attorney's Office Data).</p> <p>*Relates to Healthy Lifestyles &amp; Behaviors at All Ages, Chronic Disease, Unintentional Injuries, Intentional Injuries, Environmental Risks, Communicable Disease, Community Preparedness, Healthcare Workforce, &amp; Social Determinants Priorities</p>	Yes	<input type="checkbox"/> Other priorities rated higher <input type="checkbox"/> Existing programs already address problem/need <input type="checkbox"/> Lack of human resources/ staff <input type="checkbox"/> Other _____ <input type="checkbox"/> Community partners do not exist <input type="checkbox"/> Lead organization does not exist <input type="checkbox"/> Lack of financial resources

Healthy Living Community Priority	Rationale / Specific Need	Is this priority in the HIP?	If the priority is not addressed in the HIP, reason(s) why:
3 Chronic Disease	<p>Cardiovascular disease-</p> <p>1) Heart Disease- According to the 2011 Buchanan County Health Snapshot, death rate from heart disease is 187 for Buchanan County residents (Iowa's rate=169) and hospitalization rate for heart attack is 22 (Iowa's rate=20). In Iowa, heart disease is the #1 cause of stroke and 4th leading cause of death (Health in Iowa 2013 Annual Report).</p> <p>2)Stroke- According to the 2011 Buchanan County Health Snapshot, death rate from stroke is 47 for Buchanan County residents (Iowa's rate=37) and hospitalization rate for stroke is</p>	Yes	<input type="checkbox"/> Other priorities rated higher <input type="checkbox"/> Existing programs already address problem/need <input type="checkbox"/> Lack of human resources/ staff <input type="checkbox"/> Other _____ <input type="checkbox"/> Community partners do not exist <input type="checkbox"/> Lead organization does not exist <input type="checkbox"/> Lack of financial resources

19 (Iowa's rate=16).

Diabetes-According to the 2011 Buchanan County Health Snapshot, rate of adults in Buchanan County with a diagnosis of diabetes is 13 (Iowa's rate=8).

Mental health- According to the Health in Iowa 2013 Annual Report, 19% of Iowans surveyed reported they currently have or have had a depressive disorder. (See Intentional Injuries below for suicide data.) According to the Iowa Youth Survey, in 2012 in Buchanan County 15% of 6th graders, 10% of 8th graders, & 24% of 11th graders experienced sadness or hopelessness resulting in decreased normal activity lasting 2 weeks or more in the past 12 months .

Asthma-According to the 2011 Buchanan County Health Snapshot, 45% of youth in Buchanan County have had an Asthma diagnosis (Iowa rate=17%). According to Iowa Environmental Public Health Tracking Network, Buchanan County incidence of hospitalizations for asthma in 2008 was 6.1/10,000.

\*Relates to Healthy Lifestyles & Behaviors at All Ages, Substance Abuse, Unintentional Injuries, Intentional Injuries, Environmental Risks, Communicable Disease, Immunizations, Community Preparedness, Healthcare Workforce, & Social Determinants Priorities

# Buchanan County, IA

## Prevent Injuries & Violence Assessment

includes topics such as brain injury, disability, EMS trauma & system development, intentional injuries (violent & abusive behavior, suicide), occupational health & safety, and unintentional injuries (motor vehicle crashes, falls, poisoning, drowning, etc.).

Injuries & Violence Community Priority	Rationale / Specific Need	Is this priority in the HIP?	If the priority is not addressed in the HIP, reason(s) why:
1 Unintentional Injuries	<p>Falls-According to the Falls in Iowa: County Deaths and Hospitalizations 2009-2013 data, there were 379 hospitalizations among Buchanan County residents with a cost of these hospitalizations climbing over 10 million dollars. Falls are the second leading cause of deaths for Iowans over 65 years.</p> <p>Commuting workforce-According the Grow Buchanan Economic Development 2013 Annual Report, 1/3 of Buchanan County Adults commute out of Buchanan County for employment.</p> <p>Motor vehicle accidents-According to the 2013 Iowa Health Fact Book there were 17 MVA related deaths in Buchanan County in the years 2007 -2011. (See Substance Abuse information above for OWI data.)</p> <p>*Relates to Healthy Lifestyles &amp; Behaviors at All Ages, Substance Abuse, Chronic Disease, Intentional Injuries, Environmental Risks, Community Preparedness, Healthcare Workforce, &amp; Social Determinants Priorities</p>	Yes	<input type="checkbox"/> Other priorities rated higher <input type="checkbox"/> Existing programs already address problem/need <input type="checkbox"/> Lack of human resources/ staff <input type="checkbox"/> Other _____ <input type="checkbox"/> Community partners do not exist <input type="checkbox"/> Lead organization does not exist <input type="checkbox"/> Lack of financial resources

Injuries & Violence Community Priority	Rationale / Specific Need	Is this priority in the HIP?	If the priority is not addressed in the HIP, reason(s) why:
2 Intentional Injuries	<p>Bullying-According to Iowa Youth Survey 2012 reports, 32% of 6th graders, 38% of 8th graders, &amp; 30% of 11th graders in the last 30 days (prior to survey) reported being called names, made fun of, or teased in a hurtful way.</p> <p>Suicide-According to the 2013 Iowa Health Fact Book, there were 10 deaths from suicide in Buchanan County from 2007 to 2011. According to the Iowa Youth Survey for 2012, 12% of 6th graders, 12% of 8th graders, &amp; 26% of 11th graders in Buchanan County have in the past 12 months seriously considered suicide.</p> <p>Substance Abuse-see Substance Abuse information under</p>	Yes	<input type="checkbox"/> Other priorities rated higher <input type="checkbox"/> Existing programs already address problem/need <input type="checkbox"/> Lack of human resources/ staff <input type="checkbox"/> Other _____ <input type="checkbox"/> Community partners do not exist <input type="checkbox"/> Lead organization does not exist <input type="checkbox"/> Lack of financial resources

Promote Healthy Living Assessment.

\*Relates to Healthy Lifestyles & Behaviors at All Ages, Substance Abuse, Chronic Disease, Unintentional Injuries, Environmental Risks, Communicable Disease, Community Preparedness, Healthcare Workforce, & Social Determinants Priorities

---

## Protect Against Environmental Hazards Assessment

includes topics such as drinking water protection, food waste, food safety, fluoridation, hazardous materials, hazardous waste, healthy homes, impaired waterways, lead poisoning, nuisances, on site wastewater systems, radon, radiological health, soil erosion, and vector control.

Environmental Hazards Community Priority	Rationale / Specific Need	Is this priority in the HIP?	If the priority is not addressed in the HIP, reason(s) why:
1 Environmental Risks	<p>Air quality concerns-1) All of Iowa is considered Zone 1 (greater than 4 pCi/L) for Radon. Mitigation is suggested for levels greater than 4pCi/L. 44% of Radon tests performed during 2010 in Buchanan County homes had levels higher than 4pCi/L (rates according to BCEH data).</p> <p>2) According to Buchanan County IDSS report there was 6 confirmed cases of Carbon Monoxide poisoning in 2013. According to the CDC Public Health Tracking Network, in 2007 there were between 12-20 deaths and at least 65 hospitalizations in Iowa related to Carbon Monoxide poisoning.</p> <p>3) Buchanan County has a large number of Animal Feeding Operations. These operations have a potential to affect air quality (information from Iowa DNR).</p> <p>4) See Chronic Disease above for asthma data.</p> <p>5) See Substance Abuse for smoking data.</p> <p>Water quality concerns-1) In the past 5 years of Private Well Tests in Buchanan County an average of 32% of samples were positive for coliform bacteria, 5% tested positive for e.coli, and 6% had unsafe nitrate levels.</p> <p>Infrastructure concerns- 1) According to the U.S. Census, 73% of homes in Buchanan County were built before 1980 (lead paint was banned in 1978). In FY 13, 482 Buchanan County Children were tested for lead; 2 children were reported to have high lead levels.</p> <p>2) Black Hawk County Public Health Department continues to provide inspections in Buchanan County for food establishments, hotels, tattooing businesses, and hair salons.</p> <p>Climate change-1) Climate change is linked to severe weather patterns and health concerns such as Asthma (According to Multidisciplinary Respiratory Medicine Journal). 2) ISU extension survey results show 64% participants felt climate change was an important issue.</p>	Yes	<input type="checkbox"/> Other priorities rated higher <input type="checkbox"/> Existing programs already address problem/need <input type="checkbox"/> Lack of human resources/ staff <input type="checkbox"/> Other _____ <input type="checkbox"/> Community partners do not exist <input type="checkbox"/> Lead organization does not exist <input type="checkbox"/> Lack of financial resources

\*Relates to Healthy Lifestyles & Behaviors at All Ages, Substance Abuse, Chronic Disease, Unintentional Injuries, Intentional Injuries, Communicable Disease, Immunizations, Community Preparedness, Healthcare Workforce, & Social Determinants Priorities

---

## Prevent Epidemics & the Spread of Disease Assessment

includes topics such as disease investigation, control & surveillance, HIV/AIDS, immunization, reportable diseases, sexually transmitted diseases (STDs), and tuberculosis (TB).

Epidemics & Spread of Disease Community Priority	Rationale / Specific Need	Is this priority in the HIP?	If the priority is not addressed in the HIP, reason(s) why:
1 Communicable Diseases	<p>Sexually Transmitted Disease- According to Buchanan County IDSS reports, there were 69 confirmed STD cases in 2014.</p> <p>IDPH Reportable Disease- According to Buchanan County IDSS reports, there were 20 confirmed reportable disease cases in 2014.</p> <p>*Relates to Healthy Lifestyles &amp; Behaviors at All Ages, Substance Abuse, Chronic Disease, Intentional Injuries, Environmental Risks, Immunizations, Community Preparedness, Healthcare Workforce, &amp; Social Determinants Priorities</p>	Yes	<input type="checkbox"/> Other priorities rated higher <input type="checkbox"/> Existing programs already address problem/need <input type="checkbox"/> Lack of human resources/ staff <input type="checkbox"/> Other _____ <input type="checkbox"/> Community partners do not exist <input type="checkbox"/> Lead organization does not exist <input type="checkbox"/> Lack of financial resources

Epidemics & Spread of Disease Community Priority	Rationale / Specific Need	Is this priority in the HIP?	If the priority is not addressed in the HIP, reason(s) why:
2 Immunizations	<p>Adults- According to IDPH 2013 data, adult vaccination rates for Pneumococcal is 46%, Tdap is 72%, &amp; Zoster 23%. According to the 2011 Buchanan County Health Snapshot 60% of Buchanan County adults reported they did not receive the annual flu shot (Iowa rate=57%). (Amish population contributes to atypical data.)</p> <p>Adolescents- According to the 2013 Iowa Immunization Program Annual Report, 53% of 13-15 year olds in Buchanan County are up-to-date with recommended vaccine series (3 Hep B, 1 Meng., 2 MMR, 1 Td or Tdap, &amp; 2 Varicella); 38% of 13-15 year old females have completed the 3 dose HPV series; and 21% of 13-15 year old males have completed the 3 dose HPV series. (Amish population contributes to atypical data.)</p> <p>Childhood-According to the 2013 Iowa Immunization Program Annual Report, 99% of Buchanan County students had a valid certificate on record (3063 with Certificates of Immunizations, 38 Provisionals, 8 Medical Exemptions, 303 Religious Exemptions, and 22 with Invalid Certificates.) The report also noted that 82% of 2 year olds were up-to-date with</p>	Yes	<input type="checkbox"/> Other priorities rated higher <input type="checkbox"/> Existing programs already address problem/need <input type="checkbox"/> Lack of human resources/ staff <input type="checkbox"/> Other _____ <input type="checkbox"/> Community partners do not exist <input type="checkbox"/> Lead organization does not exist <input type="checkbox"/> Lack of financial resources

recommended vaccine series (3 DTap, 3 Polio, 3 Hib, 3Hep B, 1 Varicella, & 4 PCV). (Amish population contributes to atypical data.)

\*Relates to Healthy Lifestyles & Behaviors at All Ages, Chronic Disease, Environmental Risks, Communicable Disease, Community Preparedness, Healthcare Workforce, & Social Determinants Priorities

---

## Prepare for, Respond to, & Recover from Public Health Emergencies Assessment

includes topics such as communication networks, emergency planning, emergency response, individual preparedness, recovery planning, risk communication, and surge capacity.

Preparedness Community Priority	Rationale / Specific Need	Is this priority in the HIP?	If the priority is not addressed in the HIP, reason(s) why:
1 <span style="border: 1px solid black; padding: 2px;">Community Preparedness</span>	<p>Health Emergency Planning- Only 15% of local healthcare coalition partner's plans have been updated according to HPP and PHEP Capabilities and EMA Emergency Support Functions (ESF). Health Emergency Coalition of Buchanan County (HECBC) has existed for only 2 years.</p> <p>Training of staff &amp; volunteers-Large turn over of staff among HECBC partners and some partners with minimal staff. Lack of coordinated medical volunteer unit in Buchanan County.</p> <p>Updating of Health Vulnerability Assessment (HVA)- Last HVA was completed in January 2013 by HECBC partners of hospital and public health. Best practice is to complete a HVA every 5 years.</p> <p>*Relates to Healthy Lifestyles &amp; Behaviors at All Ages, Substance Abuse, Chronic Disease, Unintentional Injuries, Intentional Injuries, Environmental Risks, Communicable Disease, Immunizations, Healthcare Workforce, &amp; Social Determinants Priorities</p>	Yes	<input type="checkbox"/> Other priorities rated higher <input type="checkbox"/> Existing programs already address problem/need <input type="checkbox"/> Lack of human resources/ staff <input type="checkbox"/> Other _____ <input type="checkbox"/> Community partners do not exist <input type="checkbox"/> Lead organization does not exist <input type="checkbox"/> Lack of financial resources

## Strengthen the Health Infrastructure Assessment

includes topics such as access to quality health services, community engagement, evaluation, food security, food systems, food and nutrition assistance (SNAP, WIC), health facilities, health insurance, medical care, organizational capacity, planning, quality improvement, social determinants (e.g., education & poverty levels), transportation, and workforce (e.g., primary care, dental, mental health, public health).

Health Infrastructure Community Priority	Rationale / Specific Need	Is this priority in the HIP?	If the priority is not addressed in the HIP, reason(s) why:
<p>1 <span style="border: 1px solid black; padding: 2px;">Health Care Workforce</span></p>	<p>Medical Workforce- According to the 2013 Iowa Health Fact Book, there are 7 primary care physicians, 3 Physicians Assistants, and 2 Advanced Practice Nurses in Buchanan County. According to the 2014 County Health Rankings &amp; Roadmaps, there is 1 primary care provider for every 2,092 Buchanan County Residents (Iowa rate=1:1,386).</p> <p>Mental Health Providers-According to the 2014 County Health Rankings &amp; Roadmaps, there is 1 mental health provider for every 997 Buchanan County Residents (Iowa rate=1:1,144). 89 of Iowa's 99 Counties are considered mental health care shortage areas. (Housing of State Mental Health Institute in county skews data.)</p> <p>Dental Workforce-According to the 2013 Iowa Health Fact Book there are 5 general dentists (0 pediatric dentist) in Buchanan County. According to the 2014 County Health Rankings &amp; Roadmaps, there is 1 dental provider for every 2,992 Buchanan County Residents (Iowa rate=1:1,683).</p> <p>Emergency Care Providers (First Responders to Paramedic Specialist)- According to the 2013 Iowa Health Fact Book, there are 96 Emergency Care Providers in Buchanan County.</p> <p>Public Health Workforce-4 Employees in PH office (2 Nurses, 1 Homemaker, 1 Office Assistant); 3 Employees in EH office (1 director, 1 Office Assistant, &amp; 1 less than part-time staff).</p> <p>*Relates to Healthy Lifestyles &amp; Behaviors at All Ages, Substance Abuse, Chronic Disease, Unintentional Injuries, Intentional Injuries, Environmental Risks, Communicable Disease, Immunizations, Community Preparedness, &amp; Social Determinants Priorities</p>	<p>Yes</p>	<p> <input type="checkbox"/> Other priorities rated higher  <input type="checkbox"/> Existing programs already address problem/need  <input type="checkbox"/> Lack of human resources/ staff  <input type="checkbox"/> Other                 </p> <p> <input type="checkbox"/> Community partners do not exist  <input type="checkbox"/> Lead organization does not exist  <input type="checkbox"/> Lack of financial resources                 </p> <hr/>

Health Infrastructure Community Priority	Rationale / Specific Need	Is this priority in the HIP?	If the priority is not addressed in the HIP, reason(s) why:
2 Social Determinants	<p>Health Insurance-According to the 2013 Iowa Health Fact Book, 11.4% of Buchanan County Residents are un-insured (Iowa rate=10.7%). According to I-Smile Data only one dentist in Buchanan County accepts Medicaid.</p> <p>Access to transportation-1 Regional Transit system available in Buchanan County, only 2 routes available with this system ("City of Independence" and "Rural"). Restrictions on transportation to specified in-county &amp; out-of-county locations, pick-up and drop-off times, no services available on weekends and holidays, and 24 hour noticed must be given. Fares are based on cost of 1-way rides (sliding scale fees are possible with limitation). This service is available for all Buchanan County residents. Additionally one transportation source is available on a limited bases through ABCM Rehabilitation.</p> <p>*Relates to Healthy Lifestyles &amp; Behaviors at All Ages, Substance Abuse, Chronic Disease, Unintentional Injuries, Intentional Injuries, Environmental Risks, Communicable Disease, Immunizations, Community Preparedness, &amp; Healthcare Workforce Priorities</p>	No	<input type="checkbox"/> Other priorities rated higher <input type="checkbox"/> Existing programs already address problem/need <input type="checkbox"/> Lack of human resources/ staff <input type="checkbox"/> Other _____ <input type="checkbox"/> Community partners do not exist <input checked="" type="checkbox"/> Lead organization does not exist <input type="checkbox"/> Lack of financial resources

# Buchanan County, IA

## FEBRUARY 10, 2015

### COMMUNITY HEALTH NEEDS ASSESSMENT SNAPSHOT



#### Promote Healthy Living

- Priority #1 Healthy Lifestyles & Behaviors at All Ages
- Priority #2 Substance Abuse
- Priority #3 Chronic Disease



#### Prevent Injuries & Violence

- Priority #1 Unintentional Injuries
- Priority #2 Intentional Injuries



#### Protect Against Environmental Hazards

- Priority #1 Environmental Risks



#### Prevent Epidemics & the Spread of Disease

- Priority #1 Communicable Diseases
- Priority #2 Immunizations



#### Prepare for, Respond to, & Recover from Public Health Emergencies

- Priority #1 Community Preparedness



#### Strengthen the Health Infrastructure

- Priority #1 Health Care Workforce
- Priority #2 Social Determinants