

Land Use

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BOULDER COUNTY PLANNING COMMISSION Wednesday July 17, 2019, at 1:30 p.m.

Commissioners' Hearing Room, Third Floor Boulder County Courthouse, 1325 Pearl Street, Boulder, CO

PUBLIC HEARING

<u>Docket BCCP-18-0003: Proposed Addition of Public Health Element to Boulder County</u> Comprehensive Plan

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AGENDA

- 1. Staff presentation
- 2. Public Hearing
- 3. Planning Commission discussion and decision

INTRODUCTION

In 2017, a team of staff from Boulder County Public Health and Land Use Departments conducted initial research to explore development of a Public Health (PH) element to be incorporated into the Boulder County Comprehensive Plan (BCCP). In December 2017, Planning Commission (PC) expressed support for continued work towards developing a Public Health element.

The purpose of introducing a new PH element to the Boulder County Comprehensive Plan (BCCP) is to set forth the foundational document that outlines the county's vision and values for the health of all county residents and its visitors. The element goals and policies will guide regulations, funding requests, and program development by the county for the 21st century. The draft content presented here reflects community priorities identified through Boulder County Public Health's (BCPH) five-year Community Health Assessment (CHA) process, BCPH agency priorities, and community input gathered through an open house and online comments as part of this process. Proposed content also reflects feedback from Planning Commission (PC) and Board of County Commissioners (BOCC) study sessions, and a public referral circulated in May.

This document includes an overview of the objectives for the new PH element, the process of developing the proposed content, a summary of proposed goals and policies, and PC and BOCC study session discussions, and referral feedback and responses.

ACTION REQUESTED

Staff requests that Planning Commission approve the addition of a Boulder County Comprehensive Plan Public Health Element as proposed in Attachment A of this staff report as part of Docket BCCP-18-0003.

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I. OBJECTIVES AND SCOPE FOR THE NEW PUBLIC HEALTH ELEMENT

The objective of adding a Public Health element to BCCP is to comprehensively solidify the county's public health vision and values in the form of official goals and policies. The proposed BCCP goals and policies supplement existing BCCP content related to public health topics, and they reflect plans already in place and serving as a guide for the county's Public Health Department. The element goals and policies will guide regulations, funding requests, and program development by the county for the 21st century.

The scope of the goals and policies addressed in the PH element reflect key areas of focus identified through public and decision maker input, as well as staff research and review of best practices, as described in Section II. The goals and policies are organized into the following categories:

- Fostering Healthy Families and Communities
- Promote Safe and Healthy Recreation and Connections to Nature
- Transportation Safety and Accessibility
- Preserve Regional Agriculture and Local Food Systems
- Creation, Conservation and Preservation of Existing Affordable Housing
- Healthy and Safe Structures
- Climate Change
- Engage, Educate and Collaborate

II. BACKGROUND

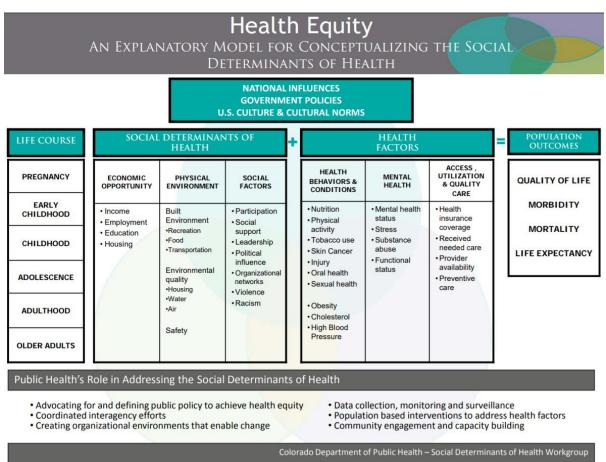
A. Public Health Department Vision as a Blueprint for PH Element

The PH element is a blueprint of the Boulder County Public Health Department's (BCPH) vision: that Boulder County is a socially just, inclusive community where physical and mental health, social well-being, and the environment are valued, supported, and accessible to all. The element explicitly establishes the link between the traditional components of planning (transportation, agriculture, environmental resources, etc.) with health themes (physical activity, healthy eating, mental health, etc.) to help facilitate decisions around health and the built and natural environments. The proposed new element recognizes and bolsters existing goals and policies that support health and public health strategies, expands on the scope of topics related to public health that are referenced in existing elements, and introduces new content areas not currently included in the BCCP. The new element will establish a multifaceted policy framework based on the social determinants of health¹ that reflects

¹ The complex, integrated, and overlapping social structures and economic systems that are responsible for most health inequities. These social structures and economic systems include the social environment, physical environment, health services, and structural and societal factors. Social determinants of health are shaped by the distribution of money, power, and resources throughout local communities, nations, and the world (Commission on Social Determinants of Health).

Boulder County's commitment to ensuring the opportunity for a healthy life for all residents and visitors. These social determinants of health are further detailed in Figure 1 below.

Figure 1. Colorado Department of Public Health - The Environment's Health Equity Model.



The element follows BCPH's overarching framework and the department's guiding principles and priorities set by the community and Public Health Department. Every five years, each local public health agency in Colorado uses data to examine the health of the community it serves and identifies solutions to address the important health issues found in the assessment. The Community Health Assessment is required every five years for all local public health agencies per the Colorado Public Health Act of 2008 (SB 08-194 CRS 25-1-501 et seq.) and the national Public Health Accreditation Board. The assessment guides BCPH's Public Health Improvement Plan.

Developing population-level health policies that seek to improve health and the supporting built and natural environments allows the county to work towards reducing health inequities and improving health outcomes for everyone in Boulder County.

B. Content Sources and Activities for Developing the Proposed Element

Content included in the draft PH element reflects concepts, priorities, and best practices drawn from a variety of sources including the county's 2017 Community Health Assessment, input from the public, Planning Commission and internal county stakeholders, and examples from other communities.

In 2017, BCPH conducted a thorough assessment of the health of the county's residents (Community Health Assessment – see attachment B), along with a thorough analysis of demographic and health data. The assessment included conversations with groups of residents (Community Health Conversations – see attachment C) to ensure that the community perspective was included, particularly from those experiencing barriers to health (i.e. health inequities). Residents, stakeholders, and partners voted and identified mental health as the focus for BCPH and community partners for the 2018-2023 five-year period.

During the research phase for this BCCP effort, staff conducted a thorough review of the existing public-health related content in other elements of the BCCP and researched national examples of comprehensive plans with public health elements or plans with health integrated throughout various elements. Rural communities with health elements in their comprehensive plans were provided by ChangeLab Solutions (Change Lab Solutions Rural Communities with Health Elements – see attachment D), an innovative organization that creates laws and policies to ensure everyday health for all. Staff researched thirteen examples provided for themes relevant to Boulder County. Staff also looked to local examples, such as the Envision Longmont Plan and the Town of Bennett, Colorado's Comprehensive plan, as well as examples from progressive counties like Alameda County's Ashland and Cherryland Community Health and Wellness element for areas outside of San Francisco and King County's comprehensive plan in Seattle.

In August 2018, staff from Boulder County Public Health and Land Use departments held an open house and initiated an online form to gather public comment. The open house provided an opportunity for public input and feedback on how to bolster existing strategies in the BCCP that support health, as well as identify new ways to improve health.

Following the open house staff began drafting a Public Health element, drawing on the range of data sources described above.

Figure 2. Summary of Public Health Element Activities

| Activity | Timeframe |
|--|------------------------|
| Public Health Department Research into potential new Public Health element | Mid 2017 |
| Planning commission support for continued work | December 2017 |
| Open house for Boulder County Comprehensive Plan Public Health Element | August 2018 |
| Draft Public Health Element | August – November 2018 |
| Internal staff stakeholder meetings | November 2018 |
| PC Study Session | December 2018 |
| Referral Process (gather input on draft element content from internal stakeholders | January |

| BOCC Study Session | April |
|--|------------|
| Referral Process (gather input on draft element content from external stakeholders | May – June |
| PC Public Hearing and Decision | July |

III. SUMMARY OF PROPOSED GOALS AND POLICIES

The following section provides an overview of the goals and related policies included in the draft Public Health element.

Fostering Healthy Families and Communities

Boulder County values and creates environments that foster healthy families and communities.

The policies under this proposed PH goal are based on additional Boulder County Public Health content areas that are not specifically addressed in the current BCCP yet impact the health of Boulder County residents. The proposed policies reference air quality, equitable economic development, childcare services, family friendly workplaces, substance use, harm reduction strategies, mental health resources and safe places, gun violence, affordable health and mental healthcare, and healthy foods and beverage environments.

Promote Safe and Healthy Recreation and Connections to Nature

Boulder County collaborates with partners and municipalities to promote safe and healthy recreation and access to open spaces and nature that support physical and mental health.

Currently the BCCP Open Space element supports conservation efforts to protect open space values and functions and provides for land dedications of parks and open space, trails, and necessary public access to those areas where appropriate. There are opportunities, however, to more directly link the benefits of the natural environment to physical and mental health. The proposed PH element will include a policy that articulates how Boulder County recognizes and values the physical and mental health benefits of open space areas, trails and amenities that allow members of the public to safely enjoy outdoor experiences and connect with nature. Under these policies, Boulder County also strives to understand and meet the preferences and needs of all visitors and residents for nature access and programing with particular attention to recognizes historically marginalized, elderly, differently abled, young, and low-income populations. The policy content considered under this proposed goal will provide the link between health and the environment.

Transportation Safety and Accessibility

Boulder County supports transportation infrastructure and programs that are safe and accessible for all residents regardless of geography or transportation mode to improve mobility options for all.

The existing Transportation element references topics such as efficiency, safety, convenience, and affordability for all users irrespective of ability, income, or personal vehicle ownership. It commits to enabling active living and healthy lifestyles by providing safe and attractive opportunities to walk and bike as part of everyday living, and ensures access to transportation systems for low-income, elderly, and mobility-impaired populations. Although the components of the existing Transportation element touch on several topics related to public health and equity, the policies under the proposed PH goal aim to address these topics as they relate specifically to public health.

Safety, for example, is addressed through specific projects with objectives to eliminate severe injuries and fatalities on the transportation network in unincorporated Boulder County through engineering, encouragement, education, and enforcement projects and programs. These policies establish the link between access to transportation and increased access to job opportunities, education, healthcare, mental health services, and social services. They call out rural and mountain communities in need of transportation options, and a need for education on existing transportation resources and active and multimodal modes of transportation (e.g. walking, bicycling, and public transit) to help improve opportunities for exercise as well as reducing greenhouse gas emissions.

Preserve Regional Agriculture and Local Food Systems

Boulder County supports the local food system, access to affordable healthy food, and community farming to preserve regional agriculture and increase communities' health and resiliency.

Agricultural enterprises and activities are considered an important sector of the Boulder County economy. Through existing policies, the Agriculture element of the BCCP promotes a diverse and sustainable agricultural economy. It also supports the preservation and conservation of agricultural lands and activities that preclude sprawl and strip development, and that also ensure the continued utilization of agricultural resources. The element, however, does not specifically address the health benefits of preserving agricultural lands and utilization of the county's natural resources for the benefit of supporting local, healthy food access and farming within the community. The policies listed under the proposed goal emphasize fruit and vegetable production and consumption, the value of gleaning efforts, and access to affordable healthy foods, especially to underserved populations such as low-income residents and rural and mountain communities. The policies also establish the importance of supporting local healthy food distribution and viability of local agricultural production by seeking to address the needs of farmers, ranchers and other local food producers and supporting the adoption of resilient agricultural practices.

Creation, Conservation and Preservation of Existing Affordable Housing

Boulder County recognizes safe, stable and healthy housing as a social determinant of health and prioritizes the creation, conservation and preservation of existing affordable housing to align with the County's affordable housing goals.

The housing needs for low- and moderate-income families and senior citizens in Boulder County are addressed in the existing Housing element regarding support for cooperative housing programs,

maintenance of housing conditions, dispersal of housing, and encouragement of legislation and policies that enhance equal housing opportunities. In addition, the county is in the process of updating the Housing element of the BCCP, and work is underway to refresh the existing Housing-specific policies to better address the challenges facing the county today and in the future. The proposed housing-related goal for the new PH element focuses on strengthening housing resources in the community due to housing's critical role as a social determinant of health.

The policies under this PH goal recognize the connection between individuals having safe, affordable housing and their physical and mental health, and they support efforts to create, conserve and preserve affordable housing, especially support for legislative efforts that provide additional protections for manufactured and mobile home park residents. This section also includes evaluating policies and regulations to minimize the negative effects of displacement on low-income persons.

Healthy and Safe Structures

Boulder County supports efforts to ensure that structures have healthy indoor air quality, structural integrity and reasonable safety features to protect occupants.

The Environmental Resources element of the BCCP recognizes overall public and environmental health through policies regarding air pollution, however, it does not specifically reference indoor air quality. The Housing element of the BCCP references maintaining a standard housing condition, however, the policy does not link housing conditions to preventing potential harm to life and health. The proposed policies under this goal specifically address indoor air quality and housing conditions regarding exposure to methamphetamine, lead, radon, mold, use of smoke detectors and CO monitors, and hazardous materials cleanup.

Climate change

Boulder County works to minimize and mitigate the negative effects of climate change and natural disasters on physical, mental, and environmental health.

Through the BCCP Environmental Resources element, Boulder County recognizes that climate change is having a significant impact on the region's environmental resources and commits to incorporating the best scientific information into planning and decision-making to adapt to and offset those impacts. The existing Sustainability element also references climate change. The county recognizes the need to modify plans, policies and regulations as necessary to adapt to climate change to reduce species and ecosystem vulnerability and other potential adverse impacts on environmental resources. The existing BCCP content does not, however, establish a clear link between changing climate conditions and public health. The policies proposed related to this goal aim to minimize and protect from climate change impacts, and minimize the effects of climate change on health, recognizing that climate change can cause and intensify stress and anxiety.

Engage, Educate and Collaborate

Boulder County actively engages and collaborates with stakeholders and partners to promote public health values.

The policies under consideration will express the county's commitment to maintaining strong outreach and public education activities and engaging the public in planning efforts. The

policies will also guide the county to collaborate and partner with communities and other regional stakeholders in identifying and addressing public health priorities.

IV. PLANNING COMMISSION AND BOARD OF COUNTY COMMISSIONERS STUDY SESSION DISCUSSIONS

In December 2018 staff led a study session with the PC to review initial concepts proposed for the PH element goals and policy content. Key topics of discussion and areas of feedback pertained to clarifying public health overlap with content in other existing elements, mirroring Boulder Valley Comprehensive Plan (BVCP) language related to accessibility and mobility, including walking and bicycling as healthy alternative modes of transportation, recognizing the unique needs of vulnerable populations, portraying high-level policy direction related to open space and recreation, focusing on the health outcomes of housing to minimize overlap with the housing element, encouraging access to affordable health care and affordable healthy food, and incorporating specific ways to address gun violence, and suicide as public health issues.

Staff also incorporated PC and public feedback from a separate March 2019 study session on Agriculture and Sustainability in Boulder County that emphasized the importance of building a sustainable agricultural economy and prioritizing food production on rural lands in the county.

In April 2019 staff led a study session with the Board of County Commissioners (BOCC) to discuss the addition of a Public Health element to the BCCP and gather feedback on draft content. Staff presented background and research related to the proposed new element, as well as a summary of proposed goals and policies, changes addressed following feedback from the PC study session, and discussion questions for BOCC. Staff requested BOCC feedback on the set of goals and policies addressed in the draft element, as well as any other topics of BOCC interest.

BOCC members expressed general support for the goals and policies addressed in the draft element and suggested several additions and clarifications. Following BOCC feedback, staff incorporated several recommended edits including clarifying the distinction between the use of "shall" and action language such as "supports" or "encourages, incorporating a policy that explicitly calls out air pollution, incorporating "minimizing, preparing, and adapting" in policies under the climate change goal, specifying specific "gap" locations and populations, such as mountain communities and low income residents, calling out the connection between transportation, climate change and air pollution, and applying a resiliency lens throughout the entire element.

V. REFERRAL FEEDBACK AND RESPONSES

Staff circulated a referral packet in May to solicit public feedback on draft Code changes. Staff received 8 comments from agencies and members of the public. This section is a summary of feedback received, as well as changes made in response to that input.

Overall Public Health Element Goals and Policies

Referral Comments

- The feedback generally supports the draft goals and policies, though many commenters offered suggestions.
- City of Longmont specifically identified several areas within the Public Health element that support Envision Longmont.

Goal 2. Promote Safe and Healthy Recreation and Connections to Nature

- Comment: BC Parks and Open Space suggested broadening the goal title to "recreation and connection to nature" to encompass a variety of contexts.
 - o Response: Staff incorporated the suggested revisions to the goal 2 title.
- Comment: BC Transportation Department suggested eliminating the value statement policy PH 2.01 that restates the goal.
 - Response: Staff proposes to keep the value statement policy PH 2.01, considering
 goals are not policies. The value statement serves as a policy under the overarching
 goal.
- Comment: BC Parks and Open Space requested alternative wording in policy PH 2.02 to "understanding the needs and preferences of all visitors and residents" and to highlight that programming is an important aspect of what the County offers.
 - Response: Staff added language to policy PH 2.02 to include programming and the needs of all residents with particular attention to historically marginalized populations.

Goal 3. Transportation Safety and Accessibility

- Comment: BC Transportation Department suggested clarification on the scope of "transportation pathways" in the goal 3 statement.
 - Response: Staff added language to the goal 3 statement to clarify County support for broad transportation infrastructure and programs.
- o Comment: The Niwot Community Association requested the adoption of a policy that references "complete streets" and addresses the "first and last" mile for all residents.
 - Response: Staff addresses the "complete streets" and "first and last" mile concepts in policy PH 3.04.
- Comment: BC Transportation Department requested incorporating VisionZero language in policy PH 3.01.
 - o Response: Staff incorporated the suggested VisionZero language to policy PH 3.02.
- Comment: BC Transportation Department suggested expanding policy PH 3.02 to include the work the County is doing on mountain transportation.
 - Response: Staff added language to policy PH 3.02 to incorporate the goal of increasing job opportunities and education for residents in rural and mountain communities.
- Comment: BC Transportation Department suggested clarification in policy PH 3.04 on specific terminology that defines varying forms of transportation.
 - Response: Staff added the terms "active and multimodal" forms of transportation in policy PH 3.04 to encompass walking, biking, and public transit to improve opportunities for exercise as well as reducing greenhouse gas emissions.

- Comment: City of Boulder Open Space and Mountain Parks suggested ecological resource content for a call out box for policy PH 3.04, highlighting adequate consideration to ecological resource factors in light of potentially expanding infrastructure.
 - Response: The Environmental Resources element of the Boulder County
 Comprehensive Plan (BCCP) highlights consideration of potential impacts on
 environmental resources as well as other resources that may be identified on site and
 mitigation of those impacts.

Goal 4. Preserve Regional Agriculture and Local Food Systems

- Comment: BC Parks and Open Space expressed concern with encouraging a specific sector of food production and suggested removing production and instead adding encouraging consumption in policy PH 4.01.
 - Response: Staff clarified that food insecurity exists for low-income individuals and kept "production" in the proposed policy PH 4.01. This encompasses fruit and vegetable production that is not specifically on county land but could pertain to nonprofits that grow and harvest fruits and vegetables on private land to donate to hunger relief agencies, as well as general fruit and vegetable production occurring in the county.
- Comment: BC Parks and Open Space requested clarification on the use of the term "existing" food distribution locations in policy PH 4.03 and suggested eliminating the word.
 - Response: Staff incorporated the suggested revisions to policy PH 4.03 to eliminate the word "existing."
- Comment: BC Parks and Open Space requested including non-farmer and non-rancher food producers and requested clarification on the use of the term "adequate" in policy PH 4.05 and suggested eliminating the term.
 - Response: Staff incorporated the suggested revisions to policy PH 4.05 and to eliminate the term "adequate."

Goal 5. Creation, Protection and Preservation of Existing Affordable Housing

- Comment: A member of the public suggested adding "creation" to the goal 5 title.
 - Response: Staff incorporated the suggested addition of the word "creation" to the goal 5 title.

Goal 7. Climate Change

- Comment: BC Parks and Open Space suggested highlighting programs that help avoid emissions by curbing population growth through the education of women and girls.
 - o Response: Staff incorporated highlighting "education" in policy PH 7.01
- Comment: BC Floodplain requested including "flooding" in policy PH 7.01.
 - o Response: Staff incorporated the addition of "flooding" in policy PH 7.01.
- Comment: City of Boulder Open Space and Mountain Parks suggested ecological resource content for a call out box for policy PH 3.04, highlighting adequate consideration to ecological resource factors in light of potentially impactful preventative measures.
 - o Response: The Environmental Resources element of the Boulder County Comprehensive Plan (BCCP) highlights consideration of potential impacts on

environmental resources as well as other resources that may be identified on site and mitigation of those impacts.

VI. RECOMENDATION AND NEXT STEPS

Staff requests PC approval of the addition of a Boulder County Comprehensive Plan Public Health Element as proposed in Attachment A of this staff report as part of Docket BCCP-18-0003. If approved by PC, staff will share the final PH element with BOCC as an informational item and will incorporate the updated element into the full BCCP document.

VII. LIST OF HYPERLINKS

- Community Health Assessment Datasheets: https://assets.bouldercounty.org/wp-content/uploads/2018/08/community-health-assessment-datasheets.pdf
- Community Health Conversations Summary of Findings: https://assets.bouldercounty.org/wp-content/uploads/2017/10/summary-of-community-conversations-cha.pdf

BCCP Public Health Element

Recommended for Planning Commission Adoption – July 17, 2019

I. Purpose

Keeping our communities healthy means ensuring that all residents can breathe clean air, drink clean water, have safe places to live, be active and experience the health benefits of open space, access and afford healthy food, experience minimal risk from substance abuse and violence, and are prepared for the health effects of climate change. The *Public Health Element* is a blueprint of the Boulder County Public Health Department's (BCPH) vision: that Boulder County is a socially just, inclusive community where physical and mental health, social well-being, and the environment are valued, supported, and accessible to all.

Section II provides a brief overview of public health in Boulder County. It includes an overarching framework, definitions, BCPH's guiding principles and the priorities set by our community and BCPH. Section III presents goals and policies for the Public Health element.

Other elements of the BCCP reference and support health, including the Environmental Resources, Transportation, Natural Hazards, Agriculture, Housing, Sustainability, and Economics elements. The goals and policies in this Public Health element bolster and complement health-related content in other elements, and address additional topics related to public and environmental health. Therefore, this element can serve as a single, comprehensive reference point for health-related goals and policies.

II. Boulder County Public Health

a) Public Health Framework and Overview

Boulder County generally enjoys the reputation of being a prosperous and healthy place, and it is recognized nationally as a community that values local food and farms, bike paths and hiking trails, open space preservation, and the creation of affordable housing. Health data for Boulder County reflects our community's investments in health; in general, smoking rates are lower than the state average, residents eat more fruits and vegetables, exercise more often, and have lower rates of chronic disease than the nation as a whole.

However, looking only at broad health data does not provide a full picture of Boulder County's community health. A closer look through an equity lens reveals that not all members of the county have equal access to such health and quality of life. Nearly 20 percent of children live in poverty, binge-drinking rates are among the highest in the nation, and child obesity rates are increasing. For these reasons, BCPH is committed to addressing the root causes of health inequities and reducing barriers to health equity so that all residents have the opportunity for a healthy life.

Information to Implement in Sidebar

Boulder County Public Health maintains community level health data on its website in order to assess and evaluate health outcomes.

<u>https://www.cohealthmaps.dphe.state.co.us/cdphe_community_health_equity_map/</u> These data contain the Estimated Life Expectancy at Birth for residents of census tracts across the State of Colorado based on vital records data from 2010-2015.

Boulder County's public health goals and policies can create a framework to improve equity and reduce disparities. These goals and policies acknowledge the complex system of social, economic, and environmental factors that influence individual and community health outcomes over the course of life. These factors, often referred to as the social determinants of health, are further detailed in Figure 1 below.

Overarching goal and policy statements in this chapter highlight the communities' health priorities and provide the broad vision for supporting health in Boulder County. Ensuring that health and equity are considered when making decisions regarding our communities' future is based on national best practices in public health. Developing population-level health policies that seek to improve health and the supporting built and natural environments allows us to work toward reducing health inequities and improve health outcomes for everyone in Boulder County. As illustrated in Figure 2 below, developing and implementing policies that impact socioeconomic factors and change the environment to make the healthy choice the default have the greatest impact on population-level health outcomes.

Health interventions that address the social determinants of health can have a larger impact on the health of a population than interventions that focus on one individual.

Figure 1. Colorado Department of Public Health the Environment's Health Equity Model

Health Equity

AN EXPLANATORY MODEL FOR CONCEPTUALIZING THE SOCIAL DETERMINANTS OF HEALTH

> NATIONAL INFLUENCES **GOVERNMENT POLICIES U.S. CULTURE & CULTURAL NORMS**

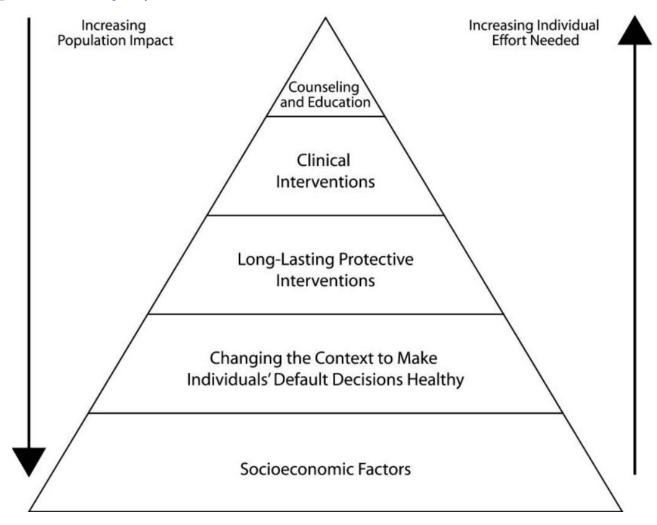
| LIFE COURSE | SOCIAI | SOCIAL DETERMINANTS OF HEALTH | | | HEALTH Factors | | POPULATION OUTCOMES | | | | | | | | | | | | |
|--------------------|-------------------------|---|--|--|-----------------------------|---|-----------------------------------|----------------------------|---------|---------|------------------|---------|---------|---------|---------|---------------------------------------|--|--|--------|
| PREGNANCY | ECONOMIC OPPORTUNITY | PHYSICAL ENVIRONMENT | SOCIAL FACTORS | HEALTH BEHAVIORS & CONDITIONS | MENTAL HEALTH | ACCESS , UTILIZATION & QUALITY CARE | QUALITY OF LIFE | | | | | | | | | | | | |
| EARLY CHILDHOOD | Income Employment | Built Environment | Participation Social | Nutrition Physical | Mental health status | Health insurance | MORBIDITY | | | | | | | | | | | | |
| CHILDHOOD | Education Housing | •Recreation •Food •Transportation Environmental quality •Housing | •Food •Transportation Environmental quality | Food • Leadership Transportation • Political | Tobacco use Skin Cancer | Stress Substance abuse Functional | Received needed care Provider | MORTALITY LIFE EXPECTANCY | | | | | | | | | | | |
| ADOLESCENCE | | | | quality | quality | quality | quality | quality | quality | quality | quality •Housing | quality | quality | quality | quality | Environmental organizational networks | | Injury Oral health Sexual health | status |
| ADULTHOOD | | •Water •Air | •Racism | Obesity Cholesterol | | | | | | | | | | | | | | | |
| OLDER ADULTS | | Safety | | • High Blood Pressure | | | | | | | | | | | | | | | |

Public Health's Role in Addressing the Social Determinants of Health

- · Advocating for and defining public policy to achieve health equity
- Coordinated interagency efforts
 Creating organizational environments that enable change
- · Data collection, monitoring and surveillance
- · Population based interventions to address health factors
- · Community engagement and capacity building

Colorado Department of Public Health – Social Determinants of Health Workgroup

Figure 2. The Health Impact Pyramid



b) Public Health Definitions and Guiding Principles

Health: A "state of complete physical, mental, and social wellbeing, and not merely the absence of disease or infirmity¹."

Health Disparity: A type of difference in health that is closely linked with social or economic disadvantage. Health disparities negatively affect groups of people who have systematically experienced greater social or economic obstacles to health. These obstacles stem from characteristics historically linked to discrimination or exclusion such as race or ethnicity, religion, socioeconomic status, gender, mental health, sexual orientation, or geographic location. Other characteristics include cognitive, sensory, or physical disability.²

¹ https://www.who.int/about/who-we-are/frequently-asked-questions

² U.S. Department of Health and Human Services, Healthy People 2020 Draft. 2009, U.S. Government Printing Office.

Health Equity: The realization by all people of the highest attainable level of health. Achieving health equity requires valuing all individuals and populations equally. It entails focused and ongoing societal efforts to address avoidable inequalities by ensuring the conditions for optimal health for all groups, particularly those who have experienced historical or contemporary injustices or socioeconomic disadvantage.³

Health Inequity: A difference or disparity in health outcomes that is systematic, avoidable, and unjust.⁴

Mental Health: A state of well-being. Mental health is defined as a state of well-being in which every individual realizes his or her own potential, can cope with the normal stresses of life, can work productively and fruitfully, and is able to make a contribution to her or his community.⁵

Population Health: The distribution of health outcomes within a population, the range of personal, social, economic, and environmental factors that influence the distribution of health outcomes, and the policies and interventions that affect those factors.

Social Determinants of Health: The complex, integrated, and overlapping social structures and economic systems that are responsible for most health inequities. These social structures and economic systems include the social environment, physical environment, health services, and structural and societal factors. Social determinants of health are shaped by the distribution of money, power, and resources throughout local communities, nations, and the world.⁶

Boulder County Public Health Guiding Principles ⁷

The following key principles describe the actions we will take to conduct our public health work in order to make significant and sustainable improvements to health in Boulder County.

- 1. Use data and community input to identify factors that significantly impact equity, health, and quality of life. Employ evidence-based strategies and evaluation to inform decisions, assure quality, and demonstrate outcomes in policies and programs.
- 2. Initiate, enhance, and promote efforts to address the social determinants of health to ensure health equity for all people in Boulder County. Support community capacity in leadership and organizing that demonstrates collective power to affect change and influence public health programming, policy, and systems change efforts.

³ Adewale Troutman, Social justice, health equity and healthy communities. The Nation's Health May/June 2013, 43 (4) 3

⁴ Whitehead, M. and Whitehead, The concepts and principles of equity and health. Health Promotion International, 1991. 6(3): p. 217.

⁵ https://www.who.int/features/factfiles/mental health/en/

⁶ Commission on Social Determinants of Health (CSDH), Closing the gap in a generation: health equity through action on the social determinants of health. Final report of the Commission on Social Determinants of Health. 2008, World Health Organization: Geneva.

⁷ These Guiding Principles are included in BCPH's Five Year Strategy Plan.

- 3. Promote primary prevention and population-based approaches to maximize health impact at the broadest possible level, while intentionally targeting prevention resources toward populations that are experiencing inequities.
- 4. Collaborate across sectors to initiate and strengthen partnerships toward making a collective impact to ensure common goals, shared measurement, coordination of activities, and reduced duplication.
- 5. Clarify appropriate roles of BCPH and our partners in the public health system.
- 6. Ensure that people in Boulder County are empowered and equipped to make informed decisions for adopting healthy behaviors.
- 7. Educate and influence policy makers so they are able to set policies that protect and enhance the health of individuals, families, communities, and the environment.
- 8. Implement strategies in a culturally and linguistically appropriate manner.

c) Public Health Priorities

Every five years, each local public health agency in Colorado uses data to examine the health of the community it serves and identify solutions to address the important health issues found in the assessment. The Community Health Assessment is required every five years for all local public health agencies per the Colorado Public Health Act of 2008 (SB 08-194, CRS §§ 25-1-501 et seq.) and the national Public Health Accreditation Board. The Assessment guides BCPH's Public Health Improvement Plan.

Information to Implement in Sidebar

In 2017, BCPH conducted a thorough assessment of the health of our county's residents. Along with extensive analysis of demographic and health data, the assessment included conversations with groups of residents to ensure that the community perspective was included, particularly from those experiencing barriers to health (i.e. health inequities). The results of these conversations were utilized to inform the creation of this Public Health element. Residents, stakeholders, and partners voted and identified mental health as the focus for BCPH and community partners for the 2018-2023 five-year period.

III. Goals and Policies

The goals and policies presented here reflect public health priorities for Boulder County. In addition to providing policy direction for decision making in Boulder County, these provide broad guidance for consideration during specific master plan updates (e.g., the county's Environmental Sustainability Plan, Transportation Master Plan, and department-level master plans).

Goal 1. Fostering Healthy Families and Communities. Boulder County values and creates environments that foster healthy families and communities.

Policies

- PH 1.01 **Air Quality.** Boulder County recognizes the direct and secondary health impacts of outdoor air pollution produced by industrial, vehicular and other sources. The county collaborates with industry, state and neighboring governments to respond to and mitigate the health impacts of poor air quality due to particulate matter, ground-level ozone, smoke from wildfires, greenhouse gases and other air pollutants.
- PH 1.02 **Equitable Economic Development.** Boulder County supports policies and equitable economic development that increase the number and availability of living wage jobs, as well as jobs with paid sick leave.
- PH 1.03 Childcare Services. Boulder County supports efforts to ensure that adequate childcare facilities are located throughout Boulder County, especially in mountain communities and other rural, underserved areas.
- PH 1.04 **Family Friendly Workplaces.** Boulder County supports the creation and adoption of family leave policies and family friendly workplaces.
- PH 1.05 **Substance Use.** Boulder County works to reduce youth and adult substance use by limiting residents' exposure to secondhand smoke and vapors, as well as considering the location and proximity of marijuana, alcohol, and tobacco facilities to youth-facing buildings.
- PH 1.06 Harm Reduction Strategies. Boulder County understands the importance of harm reduction strategies to combat substance use disorders and works with partners and experts to determine appropriate interventions, such as syringe exchange sites, clinics and recovery residences, and prescription disposal and/or diversion sites.
- PH 1.07 Mental Health Resources and Safe Places. Boulder County supports program and policy changes to address the shortage of mental health resources in schools, enhance suicide prevention, and create safe spaces for young people, free of discrimination based on race, ethnicity, sexual orientation and religion.
- PH 1.08 **Gun Violence.** Boulder County recognizes gun violence as a public health issue and supports the safe storage of guns, further research into injury prevention strategies, and efforts to minimize risk related to gun violence.
- PH 1.09 **Affordable Health and Mental Health Care.** Boulder County encourages efforts to increase access to and enrollment in affordable health and mental healthcare.
- PH 1.010 **Healthy Foods and Beverage Environments.** Boulder County works to improve food and beverage environments (i.e., places where food and drinks are sold), access to clean water, and local, healthy, and nutritious foods for all residents regardless of income.

Goal 2. Promote Safe and Healthy Recreation and Connections to Nature. Boulder County collaborates with partners and municipalities to promote safe and healthy recreation and access to open spaces and nature that support physical and mental health.

Policies

- PH 2.01 **Open Space and Nature.** Boulder County recognizes and values the physical and mental health benefits of open space areas, trails, and amenities that allow members of the public to safely enjoy the outdoors and connect with nature.
- PH 2.02 **Outdoor Access and Programing.** Boulder County strives to understand and meet the preferences and needs of all visitors and residents for nature access and programing with particular attention to historically marginalized, elderly, differently abled, young and low-income populations.

Goal 3. Transportation Safety and Accessibility. Boulder County supports transportation infrastructure and programs that are safe and accessible for all residents regardless of geography or transportation mode to improve mobility options for all.

Policies

- PH 3.01 **Injury Prevention.** Boulder County strives to eliminate severe injuries and fatalities on the transportation network in unincorporated Boulder County through engineering, encouragement, education, and enforcement projects and programs.
- PH 3.02 **Employment and Services Access.** Boulder County supports partnerships with community organizations and transportation providers to improve transportation options for residents in rural and mountain communities, with the goal of increasing access to job opportunities, education, healthcare, mental health services and social services.
- PH 3.03 **Existing Resource Outreach.** Boulder County partners with local and regional partners to provide outreach and increase awareness of existing transportation resources in rural and mountain communities.
- PH 3.04 Active and Multimodal Transportation. Boulder County supports active and multimodal forms of transportation, such as biking, walking and public transit, to help improve opportunities for exercise as well as reduce greenhouse gas emissions. Boulder County will continue to work with local and regional partners to improve the safety, accessibility and attractiveness of infrastructure that supports these modes.

Goal 4. Preserve Regional Agriculture and Local Food Systems. Boulder County supports the local food system, access to affordable healthy food, and community farming to preserve regional agriculture and increase communities' health and resiliency.

Policies

- PH 4.01 Fruit and Vegetable Consumption and Production. Boulder County encourages fruit and vegetable consumption and specifically projects that increase healthy food access for low-income populations through production and other means.
- PH 4.02 **Gleaning Efforts.** Boulder County recognizes the value of gleaning efforts that support healthy food distribution for low-income residents.
- PH 4.03 **Affordable Healthy Foods Access.** Boulder County partners with community organizations to increase access to affordable, healthy foods at food distribution locations

and seeks to increase access to healthy food in lower resourced areas, such as rural and mountain communities.

- PH 4.04 **Local Healthy Food Distribution.** Boulder County monitors and seeks opportunities to support (e.g., through information sharing, regulations, and access to program resources) grocers and other healthy food retailers across our communities, as well as local farmers, farm stands, farmers markets, and other sources and distribution channels for locally-produced food products.
- PH 4.05 **Local Agriculture Viability.** Boulder County helps protect the viability of local agriculture to ensure local food production and supply by seeking to address the needs of farmers, ranchers, and other local food producers, and supporting the adoption of regenerative, biodynamic, and other resilient agricultural practices.

Goal 5. Creation, Conservation and Preservation of Existing Affordable Housing. Boulder County recognizes safe, stable and healthy housing as a social determinant of health and prioritizes the creation, conservation and preservation of existing affordable housing to align with the county's affordable housing goals.

Policies

- PH 5.01 **Affordable Housing.** Boulder County recognizes there is a connection between individuals having safe, affordable housing and their physical and mental health, and the county supports efforts to create, conserve and preserve affordable housing.
- PH 5.02 Manufactured and Mobile Homes. Boulder County supports legislative efforts that provide additional protections for manufactured and mobile home park residents to support the physical and mental health of those residents and the preservation of affordable housing.
- PH 5.03 **Displacement Mitigation.** The county evaluates its policies and regulations to minimize the negative effects of displacement on low-income persons when housing sites are redeveloped by the private sector.

Goal 6. Healthy and Safe Structures. Boulder County supports efforts to ensure that structures have healthy indoor air quality, structural integrity and reasonable safety features to protect occupants.

- PH 6.01 **Radon Testing.** Boulder County requires radon testing and passive mitigation systems in new homes, and radon testing for major renovations (e.g. when finishing a basement); the county encourages radon testing and mitigation in all other new and existing occupied buildings.
- PH 6.02 **Best Practices.** Boulder County supports healthy and safe rental housing and provides landlords and tenants with guidance on best practices for use of smoke detectors, CO monitors, radon testing, mold remediation, and hazardous materials cleanup. The county supports exploration into the feasibility and benefits of rental licensing and inspection programs.
- PH 6.03 Remediation. Boulder County recognizes the importance of remediation efforts that reduce exposure to methamphetamine, lead, asbestos, and other potentially hazardous

materials that may be found in households and warrant review upon change in ownership and occupancy of a structure.

Goal 7. Climate Change. Boulder County works to minimize and mitigate the negative effects of climate change-driven hazards on physical, mental, and environmental health.

Policies

- PH 7.01 **Minimize Climate Change Impacts.** Boulder County works to minimize the negative impacts of climate change through education, long range and emergency preparedness planning and resiliency efforts that seek to reduce the threat of climate-induced emergencies, such as high heat, drought, flooding, wildfire, and food and water shortages, on the most vulnerable residents.
- PH 7.02 Protect from Climate Change Impacts. Boulder County works to track emerging vector borne diseases that impact our region, and collaborates with national and state partners to ensure preventative measures are taken to protect public health and minimize the negative health impacts of climate change.
- PH 7.03 **Minimize Effects of Climate Change on Health.** Boulder County recognizes that climate change can cause and intensify stress and anxiety, adversely affecting health and the county seeks opportunities to minimize those impacts through mitigating climate change.

Content for Text Box:

Events such as extreme storms or extreme heat can lead to depression, anger, and even violence. Everyone is at risk, but not everyone is affected equally. Groups that are especially vulnerable to the health impacts of climate change include children, the elderly, and women. Also at risk are disadvantaged groups, those with existing mental illness, and those with close ties to the land, including farmers and tribal communities.

Goal 8. Engage, Educate and Collaborate. Boulder County actively engages and collaborates with stakeholders and partners to promote public health values.

- PH 8.01 **Outreach.** Boulder County maintains strong outreach to the community, including offering public education activities, promoting awareness of the county's health data and community priorities, and providing robust opportunities for members of the public to provide input on future planning and programs.
- PH 8.02 **Collaboration.** Boulder County collaborates and partners with communities and other regional stakeholders in identifying and addressing public health priorities.

Active Living & Environment

Impact to Health

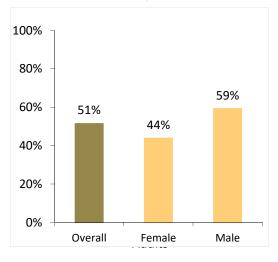
The built environment can promote consistent moderate physical activity, such as walking, cycling, or participating in sports, which can have significant health benefits. For adults, physical activity can lower the risk of early death, stroke, high blood pressure, type 2 diabetes, and breast and colon cancer. For children and adolescents, benefits include improved bone health, reduced symptoms of depression, and improved cardiorespiratory and muscular fitness.

| Indicators | Boulder County | Colorado |
|--|-------------------|----------|
| Built Environment | | |
| Workers (age 16+ years) who commute to work by alternate transportation (e.g., public transportation, walking, biking, etc.) (2011-2015) ² | 14.5% | 7.5% |
| Children who commute to school by biking, walking, or skateboarding at least one day a week (2013-2015) ² | 36.1% | 28.3% |
| Physical Activity | | |
| Children (aged 5-14 years) who were physically active for at least 60 minutes/day for the past 7 days (2013-2015) ² | 53.9% | 44.0% |
| Boulder Valley School District high school students who were physically active for a total of at least 60 minutes/day for all of the past 7 days (2015) ^{2,3} | 23.3% | 27.8% |
| Adults aged 18+ years who get moderate activity per day on 5+ days/week or vigorous activity per day on 3+ days/week (2013-2015) ² | 71.4% | 60.7% |

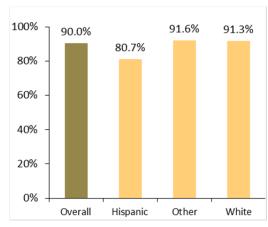
Active living is a way of life that integrates physical activity into daily routines. The built environment refers to our man-made surroundings (e.g. homes, buildings, streets, open spaces, etc.).

Disparities

High School Students Participating in Vigorous Physical Activity at Least 60 Min. in 5 of Past 7 Days, by Gender Boulder County,* 2015³



Engaging in Any Physical Activity or Exercises in Past Month Other than Regular Job, by Race/Ethnicity
Boulder County, 2013-2014⁴



Voice of the Community⁵

C Flexibility in the workplace to create time for exercise.

Better walking and biking infrastructure.

Programs about physical education are very expensive - access to programs for children like soccer clubs, yoga classes, swimming classes, access to rec centers, is very expensive.

Access to/awareness of free or low-income exercise facilities.

Equal access to healthy activities across the county - not just in Boulder.

References

- 1. Office of Disease Prevention and Health Promotion (ODPHP). N.d. *Physical Activity*. Retrieved from https://www.healthypeople.gov/2020/topics-objectives/topic/physical-activity#5072
- 2. Colorado Department of Public Health and Environment (CDPHE), 2015. *Colorado Health Indicators*. Retrieved from https://www.colorado.gov/pacific/cdphe/colorado-health-indicators
- 3. Healthy Kids Colorado Survey, 2015 Retrieved from https://www.bouldercounty.org/families/youth/results/#1488480597490-bf345527-0aab
- 4. Colorado Behavioral Risk Factor Surveillance System (BRFSS)
- 5. Boulder County Public Health 2017 Community Health Conversations

Social & Community Health Assessment Ity

Impact to Health

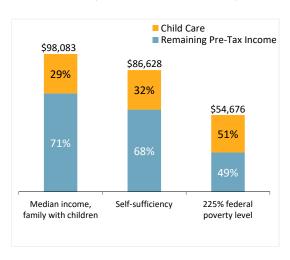
The social and community environment influences behavior by setting norms and patterns of behavior considered acceptable, determining if there are opportunities to engage in certain behaviors, and influencing which behaviors reduce or increase stress. Positive social support can enhance resilience to stress and decrease functional impairment. Further, studies suggest that individuals with high quality or quantity of social networks have a decreased risk of mortality compared to those with fewer or weaker social relationships.

An individual's social environment is a determinant of their behavior and attitudes, and ultimately their health. It influences behavior and access to opportunities. The social environment includes the structure of a community and its ability to provide support and promote support of one another.

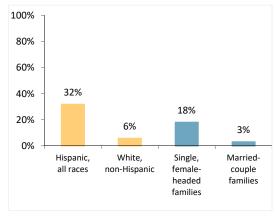
| Indicators | Boulder County | Colorado |
|---|-------------------|----------|
| Households headed by a single adult (2011-2015) ⁵ | 24.6% | 28.4% |
| Boulder Valley School District students who have an adult to go to for help with a serious problem (2015) ⁶ | 73.9% | 71.3% |
| Boulder Valley School District high school students who reported being bullied on school property during the past 12 months (2015) ⁶ | 15.1% | 20.1% |
| Boulder Valley School District students who participate in extracurricular activities at school (2015) ⁶ | 74.4% | 69.3% |
| Voter turnout in 2016 presidential election ⁷ | 73.4% | 74.5% |
| Elder abuse rates (per 100,000 population aged 65+ years) (2014) ⁸ | 602.5 | 452.9 |

Disparities

Child Care Cost as a Percentage of Income for a Family of Four, Boulder County, 2015⁴



Poverty by Ethnicity and Household Composition, Boulder County, 2015⁴



Voice of the Community⁹

Change structural racism. There is racism in organizations and places of health.

Openness and availability of resources to individuals regardless of immigration status.

Our commissioners don't give support to mountain communities. They are just concerned about Boulder city and make it hard for mountain folks - which can affect health!

Transgender youth and adults would have more spaces to gather and support each other.

References

- 1 Berkman L., Kawachi, I. 2000. Social Epidemiology. New York: Oxford University Press
- 2 Maija Reblin, MA, and Bert N. Uchino, PhD. 2009. *Social and Emotional Support and its Implication for Health*. Retrieved from https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2729718/
- 3 Social Relationships and Mortality Risk: A Meta-analytic Review. Julianne Holt-Lunstad, Timothy B. Smith, J. Bradley Layton Published: July 27, 2010 https://doi.org/10.1371/journal.pmed.1000316 Retrieved from http://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1000316
- 4 Status of Children in Boulder County, 2016
- 5 U.S. Census Bureau, American Community Survey 5-Year Estimates
- 6 Healthy Kids Colorado Survey, 2015
- 7 Colorado Secretary of State
- 8 Adult Protection and Financial Assistance
- 9 Boulder County Public Health 2017 Community Health Conversations

Impact to Health

The Self-Sufficiency Standard measures how much a family must earn to meet basic needs. Boulder County has one of the highest standards in the U.S.; in 2015, a family of 2 adults, 1 preschooler, and 1 school-age child needed \$75,906 to meet basic needs. This standard is over 300% of the federal poverty level.¹

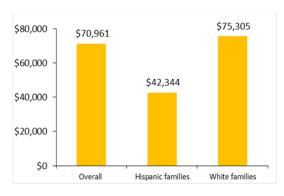
Access to affordable recreation, sports, and nutritious foods can encourage lifelong healthy habits, contributing to overall mental and physical wellness over the life course. The ability to afford physical and mental health care also impacts individual health and can decrease the length and severity of illness. Affordable housing leaves money available to pay for health care and healthy food, which leads to better health outcomes. Affordability was a common theme presented as a concern in conversations with Boulder County residents.

Affordability describes an individual's ability to access and pay for the goods or services needed to live well, and it is an underlying theme across many health topics. Affordability goes beyond simply measuring income to include the cost of housing, child care, nutritious food, recreation activities, transportation, health care, and more.

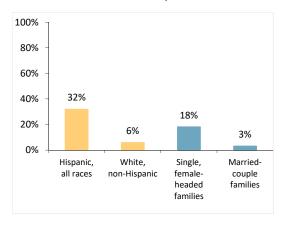
| Indicators | Boulder County | Colorado |
|---|-------------------|----------|
| Median household income (US dollars) (2015) ³ | \$72,392 | \$63,945 |
| Population below federal poverty level (all ages) (2015) ³ | 12.3% | 11.5% |
| Children (< 18 years old) below federal poverty level (2015) ³ | 10.9% | 14.8% |
| Households that received food stamps (SNAP) in the past 12 months (2011-2015) ³ | 5.5% | 8.7% |
| Total households receiving SNAP benefits in past 12 months who have children less than 18 years old (2011-2015) 4 | 52.9% | 56.6% |
| Households that received SNAP benefits in the past 12 months with an adult 60+ yrs old (2011-2015) 4 | 22.9% | 24.4% |
| Public school students eligible for free or reduced-price school lunch (K-12) (2016) ⁵ | 26.1% | 42.2% |

Disparities

Median Household Income, Boulder County, 2011-2015³



Poverty by Race and Household, Boulder County, 2015³



Voice of the Community⁶

More accessible and low-cost consultation, medicines because everything related to health is very expensive. Many times if you feel sick, don't go to the doctor for the problem.

The county would be able to provide affordable housing (my health suffers due to cost of living and working multiple jobs).

Provide jobs that have an economic ladder to the middle class.

Childcare is too expensive and inaccessible.

References

- 1. Pearce, Diana M. "The Self Sufficiency Standard for Colorado 2015." Colorado Center on Law and Policy, 2015
- 2. Nabihah Maqbool, Janet Viveiros, and Mindy Ault. 2015. The Impacts of Affordable Housing on Health: A Research Summary. Retrieved from https://www.nhc.org/publication/the-impacts-of-affordable-housing-on-health-a-research-summary/
- 3. U.S. Census Bureau, American Community Survey
- 4. U.S. Census Bureau, American Community Survey 5-Year Estimates
- 5. Colorado Department of Education, 2016
- 6. Boulder County Public Health 2017 Community Health Conversations

Impact to Health

Not having proper access to quality care impacts timely detection and treatment of health conditions, prevention of disease, life expectancy, and overall quality of life. An individual's access to and quality of care varies based on their income, race, ethnicity, sexual orientation, location (rural vs. city), age, and gender. 1,3

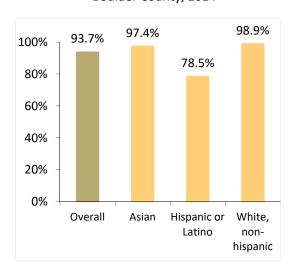
Boulder County residents suggested that the affordability of medical care and health insurance coverage has a significant impact on whether they are able to access needed health care.⁴

Access to health care refers to the ease with which an individual can get needed medical services. This includes gaining entry into the health care system, accessing a physical location where the needed services are provided, and finding a trusted health care provider with whom one can communicate successfully. Quality care is safe, patient-centered, equitable, effective, and efficient.

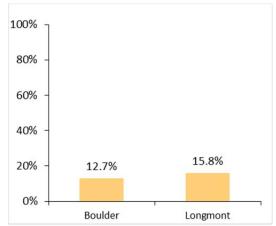
| Indicators | Boulder County | Colorado |
|--|-------------------|----------|
| Women who received adequate prenatal care (2013-2015) ⁵ | 68.9% | 63.2% |
| Uninsured children (aged 0-18 years) (2016) | 3.7% | 6.0% |
| Uninsured population (2017) ⁷ | 4.1% | 8.2% |
| Adults (aged 18+ years) who have had cholesterol screening in past 5 years (2013, 2015) ⁵ | 79.8% | 76.3% |
| Women (aged 40 years or older) who had a mammogram within the last 2 years (2012, 2014) ⁵ | 62.1% | 61.4% |
| The rate of practicing primary care physicians per 100,000 population (2014) ⁸ | 125 | 81 |

Disparities

Adults with Health Insurance, Boulder County, 2014⁶



Adults Without Health Insurance, City of Boulder and City of Longmont Colorado, 2014



Voice of the Community⁴

CC Affordable health care.

Easier access to medical sources: eye, dental, medical.

Ability of people who are not able to live independently to have available the options of care providers coming to their home instead of the only choice being to go to a nursing home.

References

- 1. Healthy People 2020, 2017. Access to Health Services. Retrieved from https://www.healthypeople.gov/2020/topics-objectives/topic/Access-to-Health-Services
- 2. World Health Organization (WHO), 2006. *Quality of Care*. Retrieved from http://www.who.int/management/quality/assurance/QualityCare B.Def.pdf
- 3. Agency for Healthcare Research and Quality (AHRQ), 2016. *Access and Disparities in Access to Health Care*. Retrieved from https://www.ahrq.gov/research/findings/nhqrdr/nhqdr15/access.html
- 4. Boulder County Public Health 2017 Community Health Conversations
- 5. Colorado Department of Public Health and Environment (CDPHE), 2015. *Colorado Health Indicators*. Retrieved from https://www.colorado.gov/pacific/cdphe/colorado-health-indicators
- 6. U.S. Census Bureau, American Community Survey
- 7. CHI Colorado Health Access Survey, County Health Profile Boulder County (2017) Retrieved from: https://www.coloradohealthinstitute.org/county-health-profiles
- 8. Robert Wood Johnson Foundation County Health Rankings

Housing

Impact to Health

The link between housing and health is twofold: poor health can contribute to being homeless, and being homeless can lead to poor health. Individuals without homes often lack access to health care treatment and have higher rates of acute and chronic illness, such as bronchitis, diabetes, mental illness, hypertension, and HIV/AIDS.²

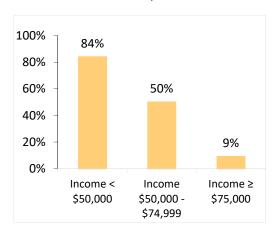
The high costs of housing in Boulder County can put a strain on family budgets. In conversations, Boulder County residents often shared concerns about the supply of affordable housing in the county.

Quality housing refers to an affordable dwelling that is clean, safe, and sanitary; without hazards or pests; and with safety and security measures in place. Housing is one of the most important supports a person or family can have.¹

| Indicators | Boulder County | Colorado |
|--|-------------------|-----------|
| Housing units that are owner-occupied (2011-2015) ³ | 62.2% | 64.3% |
| Owner-occupied housing units with mortgage- status 30% or more of household income (2011- 2015) ³ | 27.0% | 30.5% |
| Median home value (US dollars) for owner- occupied housing units (2011-2015) ³ | \$368,800 | \$247,800 |
| Housing units that are renter-occupied (2011-2015) ³ | 37.8% | 35.7% |
| Renters who are paying 30% or more of household income on rent (2011-2015) ³ | 54.0% | 48.5% |
| Median gross rent (US dollars) (2011-2015) ³ | \$1,187 | \$1,002 |

Disparities

Owner-Occupied Units Paying 30% of Income for Mortgage by Household Income,
Boulder County, 2011-2015³



Renters Paying 30% of Income for Rent by Household Income, Boulder County, 2011-2015³

100% 85% 80% 61% 60% 32% 40% 20% 5% 0% Income Income Income Income <35,000 35,000-50,000-≥75,000 49,000 74,999

Voice of the Community⁴

Affordable housing...I make very decent wage and am still considered cost-burdened. I can only imagine the thousands of people who are at over 50% cost-burdened.

It is impossible for people who live paycheck to paycheck to pay for rent or buy a house. Access to housing - the price of houses and rent is very expensive

Affordable housing that does not compromise safety.

Greater regulations on landlords to provide a safe and habitable living environment.

More low-income access to housing - the 2+ year wait list is $a_{B,9}$ significant issue.

References

- 1. American Public Health Association and National Center for Health Housing. National Health Housing Standard, 2014
- 2. National Health Care for the Homeless Council (NHCHC), 2011. *Homelessness and Health, What's the Connection?* Retrieved From http://www.nhchc.org/wp-content/uploads/2011/09/Hln health factsheet Jan10.pdf
- 3. U.S. Census Bureau, American Community Survey, 5-Year Estimates
- 4. Boulder County Public Health 2017 Community Health Conversations

Healthy Eating Attachment B: Community Health Assessment Eating

Impact to Health

Better nutrition has been found to be related to improved infant, child, and maternal health; stronger immune systems; safer pregnancy and childbirth; lower risk of diseases such as diabetes and cardiovascular disease; and longevity. In fact, people with adequate nutrition are more likely to be productive and able to gradually break the cycles of poverty and hunger."² Conversely, a poor diet can increase the risk of becoming overweight or obese.³

In 2012-2014, 45.9% (Boulder County) and 56.5% (Colorado) of adults were overweight or obese. Subsequently, rates of diabetes, cardiovascular disease, and other diet-related conditions have escalated. In 2016, heart disease was the second leading cause of death in Boulder County and Colorado (110 and 127 deaths per 100,000 age-adjusted) and diabetes was the ninth leading cause of death in the County (9 per 100,000) and eighth in Colorado (16 per 100,000, age-adjusted rate). Substitution of the county (9 per 100,000) and eighth in Colorado (16 per 100,000, age-adjusted rate).

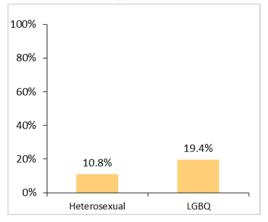
Many Boulder County residents know the importance of eating healthy and seek nutritious food but experience barriers such as no access to quality affordable food and limited time to prepare nutritious meals. ¹⁰

An adequate, well balanced diet combined with regular physical activity, is a cornerstone of good health. Poor nutrition can lead to reduced immunity, increased susceptibility to disease, impaired physical and mental development, and reduced productivity.¹

| Indicators | Boulder County | Colorado |
|---|-------------------|----------|
| Percent of children (aged 1-14 years) who ate fruit 2 or more times per day and vegetables 3 or more times per day (2013-2015) ⁷ | 10.7% | 11.4% |
| Percent of children (under 18 years of age) living in households that experienced food insecurity at some point during the year (2015) ⁸ | 15.0% | 16.5% |
| Percent of BVSD high school students who ate vegetables 2 or more times per day during the past 7 days (2015) ⁹ | 39.5% | 30.5% |
| Percent of BVSD high school students who experience food insecurity (went hungry because of lack of food in the house) (2015) ⁹ | 8.4% | 14.0% |
| Percent of population experiencing food insecurity at some point during the year (2015) ⁸ | 12.8% | 12.2% |

Disparities

Boulder Valley School District, 2015 Overweight and Obesity in High School Students, by Sexual Orientation⁹



Obesity in Adults, by Race/Ethnicity⁴
Boulder County, 2013-2014

Voice of the Community¹⁰

Solution No one in our county should be hungry.

More education on nutrition in schools and in community but culturally appropriate.

Cook healthy dishes for friends often to show them how to eat healthy food or how to prep. Modeling is a great way to make changes.

Cost efficient healthy food options including fast food.

B 11

References

- 1. World Health Organization. 2017. Retrieved from http://www.who.int/topics/nutrition/en/
- 2. World Health Organization. 2017. 10 Facts on Nutrition. Retrieved from http://www.who.int/news-room/facts-in-pictures/detail/nutrition
- 3. Dietary Guidelines Advisory Committee. Scientific Report of the 2015 Dietary Guidelines Advisory Committee: Advisory Report to the Secretary Health and Human Services and the Secretary of Agriculture. Washington, DC: US Department of Health and Human Services; 2015.
- 4. Colorado Behavioral Risk Factor Surveillance System (BRFSS)
- 5. Colorado Vital Statistics Death Dataset, 2013-2015
- 6. Colorado Pregnancy Risk Assessment Monitoring System (PRAMS)
- 7. Colorado Child Health Survey 2013 -2015
- 8. Feeding America
- 9. Healthy Kids Colorado Survey, 2015
- 10. Boulder County Public Health 2017 Community Health Conversations

Mental Health Attachment B: Community Health Assessment Health

Impact to Health

Mental health and physical health are closely connected; mental health influences an individual's ability to maintain good physical health. Health problems can occur if a stress response continues for a long period or becomes chronic. Chronic stress can cause immune, digestive, sleep, and reproductive systems to stop working normally.

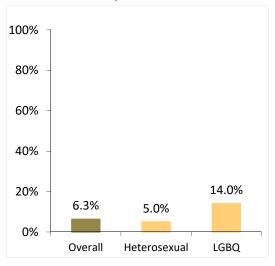
Poor mental health can lead to high rates of suicide among people who experience discrimination, such as refugees and migrants; indigenous peoples; lesbian, gay, bisexual, transgender, intersex (LGBTI) persons; and prisoners.³ In Boulder County, suicide is the seventh leading cause of death and the third leading cause of potential years of life lost.⁴

Mental health is a state of well-being when an individual realizes his or her own abilities, can cope with the normal stresses of life, can work productively, and is able to make a contribution to their community. Mental health includes diagnosable mental illness, access to mental health services, stress, substance abuse, and work-life balance.

| Indicators | Boulder County | Colorado |
|---|-------------------|----------|
| Percent of pregnant women who experienced 1 or more major life stress events 12 months before delivery (2012-2014) ⁵ | 59.6% | 71.8% |
| Percent of parents who reported behavioral or mental health problems in their children (aged 1-14 years) (2013-2015) ⁶ | 20.1% | 19.9% |
| Percent of BVSD high school students who felt sad or hopeless almost every day for 2 or more weeks in a row so that they stopped doing some usual activities during the past 12 months (2015) ⁷ | 27.7% | 29.5% |
| Percent of adults (aged 18+ years) who report experiencing 8 or more days of poor mental health in the past month (2013-2014) ⁸ | 11.3% | 13.0% |
| Age-adjusted suicide deaths per year (2013-2015) ⁹ per 100,000 | 16.3 | 19.1 |
| Age-adjusted rate of hospitalizations related to mental illness per year (2013-2015) ¹⁰ per 100,000 | 2,184 | 2,834 |

Disparities

High School Student Attempted Suicide by Sexual Orientation
Boulder Valley School District, 2015⁷



Age-Adjusted Suicide Deaths (per 100,000 population per year) Boulder County, 2013-20159

26.3 25 -20 -16.3 15 -10 -7.0 5 -Overall Female Male

Prepared by Boulder County Public Health, 2018

Voice of the Community¹¹

It is frustrating to clinicians and patients to have to call several mental health providers before finding someone who can provide service.

Life is so fast moving - not enough time to breathe.

I had 5 or more people from my high school harm themselves and pass away. Many of them were bullied or didn't feel they were important. I want there to be more opportunities for people to learn their importance and stop bullying and judgment.

B 13

References

- World Health Organization (WHO). 2016. Mental health: strengthening our response. Retrieved from http://www.who.int/mediacentre/factsheets/fs220/en/
- 2. Lando J, Marshall Williams S, Sturgis S, et al. A logic model for the integration of mental health into chronic disease prevention and health promotion. Prev Chronic Dis. 2006 April;3(2):A61. Retrieved from https://www.healthypeople.gov/2020/topics-objectives/topic/mental-health-and-mental-disorders
- 3. World Health Organization (WHO). 2017. Suicide. Retrieved from http://www.who.int/mediacentre/factsheets/fs398/en/
- 4. Colorado Health Statistics and Vital Information, 2015. Retrieved from: https://www.colorado.gov/pacific/cdphe/colorado-health-indicators
- 5. Colorado Pregnancy Risk Assessment Monitoring System (PRAMS), 2012-2014. Retrieved from https://www.colorado.gov/pacific/cdphe/colorado-health-indicators
- 6. Colorado Child Health Survey, 2013-2015. Retrieved from https://www.colorado.gov/pacific/cdphe/colorado-health-indicators
- 7. Health Kids Colorado Survey, 2015
- 8. Colorado Behavioral Risk Factor Surveillance System (BRFSS)
- 9. Colorado Vital Statistics Death Dataset, 2013-2015
- 10. Colorado Health and Hospital Association, 2013-2015. Retrieved from: https://www.colorado.gov/pacific/cdphe/colorado-health-indicators
- 11. Boulder County Public Health 2017 Community Health Conversations

Environmental Quality

Impact to Health

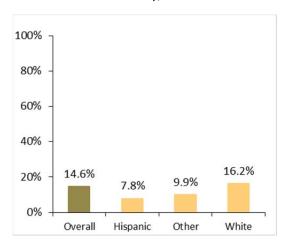
Poor air quality, both indoors and out, contributes to premature death, cancer, and long-term damage to respiratory and cardiovascular systems. In Boulder County, the most concering air pollutant is ozone. Ozone can aggravate asthma, chronic bronchitis, and emphysema; increase use of medication; increase visits to the emergency room; and increase hospital admissions.² Poor water quality can also be harmful and lead to a range of illnesses, including gastrointestinal illness, neurological problems, and cancer.

Environmental quality refers to the quality of indoor and outdoor air and water for drinking and bathing. The environment directly affects health and plays a major role in quality of life, length of healthy life, and health disparities. ¹

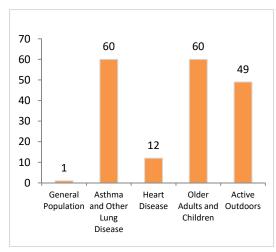
| Indicators | Boulder County | Colorado |
|--|-------------------|------------------|
| Household radon tests that were above the Enironmental Protection Agency (EPA) recommended action limit of 4 pCi/L (pico Curies per liter of air) (2005-2017) ³ | 53.7% | not available |
| Adults (aged 18+ years) who report bottled water as their primary home drinking water source (2011-2014) ⁴ | 13.1% | 17.6% |
| Grade for number of high ozone days in 2017 ³ | F | not available |
| Adults (aged 18+ years) with asthma (2013-2015) ⁴ | 8.3% | 8.7% |
| Boulder Valley School District high school students with asthma $(2015)^5$ | 22.5% | 23.0% |
| Children aged 1-14 years with asthma (2013-2015) ⁶ | 8.2% | 7.3% |

Disparities

Adults with Asthma, by Race/Ethnicity Boulder County, 2013-2014⁵



Front Range Air Quality Unhealthy Days by Affected Population, 2014⁷



Voice of the Community

As a new resident of Boulder County, I would wave a magic wand to eradicate oil and gas development completely, replacing it with solar, wind, and geothermal exchange energy development. I can already feel the adverse effects of poor air quality on my health.

Keeping our air clean would help a great-grandson with his asthma.

Make everyone's water drinkable and our use more efficient. More efficient water means more behavior change towards converting grass into xeroscope, more efficient faucets, and other appliances. It also means investing into our lower-income neighborhoods to provide drinkable solutions.

References

- 1. Healthy People 2020. 2017. *Environmental Quality*. Retrieved from https://www.healthypeople.gov/2020/leading-health-indicators/2020-lhi-topics/Environmental-Quality
- 2. U.S. Environmental Protection Agency. Air Quality Index: A Guide to Air Quality and Your Health, February 2014. Reasearch Triangle Park, NC.Retrieved from https://www3.epa.gov/airnow/aqi brochure 02 14.pdf pg 5
- 3. http://www.lung.org/our-initiatives/healthy-air/sota/city-rankings/states/colorado/
- 4. CDC Behavioral Risk Factor Surveillance System (BRFSS)
- 5. Healthy Kids Colorado Survey (2015)
- 6. The Colorado Child Health Survey (CHS)
- 7. Air Compare. Retrieved from https://www3.epa.gov/aircompare/compare.htm. Font Range includes Adams, Arapahoe, Boulder, Denver, Douglas, Jefferson, Larimer, and Weld Counties



Opportunity for a Healthy Life

Community Health Conversations

Summary of Findings

Project Summary

In order to improve health in our community, it's important to first understand what the greatest needs are and where public health can have the greatest impact. The Community Health Assessment is an evidence-based approach designed to do just that. Through this process, information is gathered from multiple data sources (e.g. the Healthy Kids Colorado Survey, focus groups with residents, etc.) to develop a deeper understanding of the community's health and to focus on interventions. Conversations with groups of residents – called Community Health Conversations – were one part of the Boulder County Public Health 2017 Community Health Assessment.

Project Goal

The goal of the Community Health Conversations was to ensure that the community perspective was included, particularly from those who are experiencing barriers to health (e.g. health inequities).

Methods

Staff from Boulder County Public Health met with Boulder County residents at established meetings of neighborhoods, churches, organizations, etc. from February through April 2017. Participants were asked one question: "If you could wave a magic wand and improve your health (including mental health) or the health of your friends, family, and/or loved ones living in Boulder County, what would happen or change?"

Meeting attendees wrote down their answers to this question, engaged in conversation on the topic with peers, and then selected their own top three responses. Boulder County Public Health staff used a <u>Health Equity Model</u>, developed by the Colorado Department of Public Health and Environment, to categorize these top responses into factors according to the framework. Factors that came up most often were categorized into key themes.

Participants

Boulder County Public Health staff facilitated this conversation with 53 groups (over 600 people) throughout the county. The groups represented populations that are facing barriers to health from various ages, races/ethnicities, income levels, and life experiences.

Key Findings

In total, the residents provided 3,021 ideas about things that could improve their health; marking 1,776 of these ideas as priorities.

Themes

Boulder County residents shared many ideas for improving their ability to live a healthy life. The graphic below illustrates the words most often used in the Community Health Conversations; the larger the word, the more often it was mentioned by the participants. These words and corresponding ideas were categorized into factors that affect health, ranging from nutrition, to accessing health care, to racism.



Key Themes

Out of all ideas provided, the following key themes were identified as priorities:

- Active living and built environment (i.e. how well the environment makes it easier to live an active life, such as
 having bike paths to make it easier and safer for people to ride their bikes)
- Affordability
- Environmental quality (i.e. the quality of our water, air, etc.)
- Health care access and quality
- Healthy eating
- Housing
- Mental health
- Social and community context (e.g. how included residents feel in the community, how easy is it to access social programs, etc.)

Thank You

Our public health community consists of the public, staff and partners. Boulder County Public Health staff volunteers visited as many community groups and staff meetings as possible between Feb-April 2017. We recognize that there are many other groups in Boulder County who we hoped to but could not visit due to time and staff constraints. We sincerely thank participants from these 53 groups for speaking with us!

- Allenspark Lunch Group
- Area Agency on Aging
- Atlas- Boulder County AIDS Project
- Attention Homes
- Bailes de mi Tierra- Longmont Senior Center (dance group)
- BCPH Boulder Facilitator Training
- BCPH Communicable Disease & Emergency Management Division Meeting
- BCPH Community Engagement Learning Circle Meeting
- BCPH Community Health Division Meeting
- BCPH Environmental Health Staff Meeting
- BCPH Family Health Division Meeting
- BCPH Longmont Facilitator Training
- BCPH Strategic Initiatives Branch Division Meeting
- Boulder County AIDS Project Staff Meeting
- Boulder County Jail- Women's Group
- Boulder County Latino Coalition Meeting
- Boulder Meals on Wheels
- Boulder OASOS
- Boulder Senior Center
- Boulder Youth Opportunities Advisory Board (YOAB)
- Caminando Juntos- Association for Community Living
- Chinook Café -Mental Health Partners
- CIRCLES
- Coal Creek Meals on Wheels
- CU Health Promotion Group
- Early Childhood Educators Director's Meeting
- ELPASO Parent Group
- GENESISTER Group
- Head Start Lafayete
- HEAL course of ECE providers
- Health, Safety and Nutrition- FRCC course
- Hearing Voices Network
- I Have A Dream Foundation- Boulder High
- Infant/Toddler Theory Class1
- Infant/Toddler Theory Class2
- Lafayette Youth Advisory Council
- LifeBridge Christian Single Mom's Group
- Livewell Longmont Promotoras Group
- Longmont OASOS
- Louisville Senior Center

- Louisville Youth Advisory Board
- Lyons Lunch Group
- Nederland Area Senior Group
- Nurturing Parent Group- Whittier Elementary
- OUR Center
- Patient Voices Clinica Patient Advisory Group
- Programa Companeras- El Centro Amistad
- Sister Carmen Family Leadership Training Institute- Latina Group
- St. John the Baptist- Men's Group
- St. John the Baptist- Women's Group
- Teens Inc.
- THRIVE Conference
- Wild Plum Policy Council

From: Wufoo
To: Ruano, Jose

Subject: Comment on Public Health Element BCCP-18-0003 [#1]

Date: Monday, August 13, 2018 4:34:26 PM

Name * Scott Coulson

Email * <u>scoulson@bouldercounty.org</u>

How should we manage Boulder County lands to support your health? *

I am in support of investment in green infrastructure as it is aligned with Boulder County's public health and sustainability policies.

A growing body of research demonstrates that more time in and near natural and green spaces can measurably improve health. Both natural and built green infrastructure can provide clean air, clean water, and natural places to play while serving as health-improving green space. Protecting, enhancing, and expanding natural and open areas; planting street trees in paved areas; creating bioswales in road rights-of-ways and parking lots; adding eco-roofs and living walls to buildings; and increasing tree canopy—all elements of green infrastructure—can help address disease prevention, health promotion, equity, and ultimately, health care cost savings.

Please check box below *

From: Wufoo
To: Ruano, Jose

Subject: Comment on Public Health Element BCCP-18-0003 [#2]

Date: Tuesday, August 14, 2018 10:56:17 AM

| Name * | laurie houde |
|-------------------------|--|
| Email * | <u>lkhoude@msn.com</u> |
| Phone Number (optional) | (303) 684–9991 |
| Address (optional) | 7180 N. 115th St. Longmont, CO 80504 United States |

How should we manage Boulder County lands to support your health? *

First and foremost, suspending all oil and gas development is crucial to public health. It would be ideal to stop oil and gas statewide, so that bordering counties where O&G development is ongoing, would not be able to contaminate our air quality.

Secondly, I would like to see more trails in our county devoted to horse travel and hiker only. Sharing trails with mountain bikes can prove dangerous for both horseback rider and biker, since many bikers do not yield to horse and rider. Recreation provides exercise and stress relief which has a positive impact on health. Let's make recreation as safe as possible.

Please check box below *

From: Wufoo
To: Ruano, Jose

Subject: Comment on Public Health Element BCCP-18-0003 [#3]

Date: Wednesday, August 15, 2018 4:17:52 PM

| Name * | Dennis Whalen |
|-------------------------|--|
| Email * | dennis.w.whalen@gmail.com |
| Phone Number (optional) | (303) 862-1501 |
| Address (optional) | 57 Aspen Way nederland, Colorado 80466 United States |

How should we manage Boulder County lands to support your health? *

There is only one medical doctor available along the Peak to Peak region, and he is located in Nederland. Unless you live in Nederland there is little or no transportation options to get to the doctor or to get medical help in general, unless you have your own automobile, and it's working and you can afford to drive it some distance, and you can afford to take time off from you job (assuming you have a job). This is especially true in the Winter months when the options for VIA or other transportation options are not prepared for snow covered, icy, dirt roads. This is one example of the problems faced by people, especially older people living in Western Boulder County, of which there are many and who mostly can't afford to move. More than 10% of the people living in Western Boulder County have no electricity, heat or running water. The Nederland Food Pantry provides supplemental food for more than 500 peak to peak residences every month. The BCCP needs to focus more on Western Boulder County, which is on it's way to becoming a bedroom community.

Dennis Whalen, Chair Peak to Peak Housing and Human Services Alliance p2phhs.org

Please check box below *

From: Wufoo
To: Ruano, Jose

Subject: Comment on Public Health Element BCCP-18-0003 [#4]

Date: Saturday, August 18, 2018 5:54:02 PM

| Name * | Richard Andrews |
|-------------------------|---|
| Email * | rich@zeoponix.com |
| Phone Number (optional) | (303) 918-8297 |
| Address (optional) | rural Boulder County, Colorado United States |

How should we manage Boulder County lands to support your health? *

- 1. Require a complete and rapid conversion of all Open Space agricultural lands to grow ONLY the most nutritionally complete and healthy foods and feeds. This would mean total conversion to organic agriculture and elimination of the use of toxic pesticides. Parks and Open Space would require all lessees to produce and implement farm plans to accomplish this objective.
- 2. Specifically to support and advance the implementation of item 1 above, the Parks and Open Space Department and Public Health Department would immediately ban the use of all pesticide products containing glyphosate (the active ingredient in Round Up herbicide and other products containing this chemical.). The county has this authority on its open space lands under state and federal law. This chemical has been declared a probably human carcinogen by the International Agency for Cancer Research, an arm of the World Health Organization. It has also been defined by State of California as a carcinogen.

I mention only one specific synthetic pesticide, but there are similar major toxicity problems with many other pesticides currently applied to crop lands in our county.

The profligate use of chemical pesticides and synthetic chemical fertilizers is not healthy to our population due to exposures to farm workers, losses of pesticides into the air, water, and the poisoning of the soils which in turn reduce the ability of agricultural soils to sequester carbon, reducing green house gases. These chemicals are damaging not only the human population but so many other species which we should be protecting in our county.

- 3. The open space crops lands should be converted to grow crops that are marketed locally. The county would encourage and even support with incentives the marketing and processing capabilities for organic crops locally. The production of field corn that is sold for ethanol production is an example of a misplaced priority and the production of corn for this fuel is shown to be a losing method to reduce greenhouse gas emissions for transportation fuels.
- 4. The county via multiple departments, Public Health, Open Space, and Sustainability Office would require that all cannabis crops produced in the county, both medicinal and recreational, use only organic cultivation practices and products that are allowed under the U.S. Department of Agriculture National Organic Program which establishes that no synthetic pesticides can be used, and only organic defined nutritional materials. The Colorado Department of Agriculture has approved approximately 250 different pesticides that they allow to be used in cultivation of cannabis...and without any of those pesticides proven to be safe for use with cannabis. This is an even greater concern with the many concentrates made from cannabis, such as extracts, waxes, edibles, etc.

which have been shown to often preferentially concentrate the pesticide residuals over the THC or CBD chemicals during the processing...making them even more potentially toxic to the users. This is a potential future health crisis coming down the road...and it can and must be avoided by requiring Boulder county growers to go organic with all cannabis.

- 5. Furthermore, all cannabis crops in the county shall only be allowed to be grown outdoors; no indoor production that requires the excessively large energy inputs and the accompanying direct and embodied greenhouse gas emissions shall be allowed. The county goal to dramatically reduce green house gas emissions is a public health issue of major importance, and the current county requirement disallowing outdoor production is counter productive, even disingenuous with stated objectives. This requirement will save the cannabis producers huge production costs. The current program of GHG offsets required of producers is a backwards solution when the emissions should never happen by requiring outdoor production.
- 6. Boulder county is a leader in production of beer and other beverages, yet there is only one organic brewer in the whole county, actually only one in the whole state of Colorado out of more than 345 brewers. This can and should be shifted by Boulder County encouragement, and by facilitating/encouraging the production of organic grains and hops, and even specialty organic beer ingredients (herbs, etc.) on county lands. Currently many, if not most beers contain pesticide residuals in the products, unknown to the consumers, and probably even to the brewers. This can and should be changed by programs of education and encouragement to convert to organic brewing by the Boulder County Public Health Department.
- 7. In order to serve the major population of our county that is food insecure, the large amount of public land that is crop land and rangeland should be used to a reasonable extent to produce foods, nutritious foods, to serve this disadvantaged population in our county. The food insecure of Boulder County has been cited as much as perhaps 15% of our total population, perhaps on the order of 40,000 people.
- 8. The same food insecure population in Boulder County is also often economically and job insecure. The county should institute a job training program focused on this population of potential agricultural producers. The county owned agricultural lands should set aside an increasing and staged portion of open space lands to lease to trained agricultural people from among the food insecure population. This process should encompass not only primary field agriculture but also food processing industries which are encouraged and incentivized in the county. Open Space often states its concern with the aging of its current farmer base of open space lessees. This program can also support a solution to that concern, by encouraging young new farmers.
- 9. To accomplish several of the above recommendations, the county should create alliances in public-private-non profit partnerships. Not all of the above needs to be staffed and funded by county taxes if creatively established/enabled.
- 10. Boulder County, with strong participation from Boulder County Health Department and the Boulder County Board of Health, should re-establish and empower a Food and Agriculture Policy Council with a specific mission to design and move programs for producing the healthiest foods using the most sustainable, regenerative practices possible, and to serve our food insecure population as a major objective.

Overall statement:

Boulder County can and should become a leader in only producing the healthiest vegetable, fruit and grain foods, animal feeds, specialty crops, animal based foods, cannabis and beverages. The majority of those products should be sold locally, and the production of these quality products also used support population sectors in our county that are in need of the best quality of food for a healthy population. These programs can increase the health of our county's people, and avoid the many health care costs that otherwise occur by consuming poor quality foods and beverages

Please check box below *

From: Wufoo
To: Ruano, Jose

Subject: Comment on Public Health Element BCCP-18-0003 [#5]

Date: Monday, August 20, 2018 10:09:21 AM

Name * Jill Strange

Email * <u>strangejill@hotmail.com</u>

Phone Number (optional) (720) 252–5848

How should we manage Boulder County lands to support your health? *

Have more flexible zoning for residential neighborhoods in order to allow for more affordable housing. Allow mother-in-law units, allow larger homes to be turned in to co-op housing.

Consider closing off select streets in neighborhoods to create pocket parks and community gathering spaces.

Add shade to trail heads and playgrounds. Consider shade sails over playground equipment. Add shade structures at trail heads that could also function as picnic areas.

Allow farmers to host educational cooking classes without having a commercial kitchen. Allow farms to host more farm to table dinners and more educational events.

Please check box below * • I acknowledge receipt of the Open Records Notification

From: <u>Hulbert, Amelia</u>
To: <u>Ruano, Jose</u>

Subject: Phone call comment from Chana- PH element Date: Monday, August 20, 2018 3:40:10 PM

Hi Jose,

Chana received a phone call (twice) from a gentleman who wanted to provide his comments on the PH element. I want to make sure you have all this info in one place so here you go!

Comments received by phone from Chana:

8/16/18

I just got a call from a resident who wanted to share his input to the comp plan:

- Public drinking water (fountains, drinking water stations) should be routinely tested and the testing data should GIS mapped and shared on "open street map."
- Make public health data available to the public.
- Make handwashing facilities (water, soap, dryers, or sanitizer) available at all public places buildings, trailheads, etc.
- Remind public about the importance of hydration and personal hygiene
- Ensure there is access to healthcare
- Ensure there is access to mental health care

He just called back and added:

- Consider partnership with colleges and universities to test door handles, faucets, soap dispensers etc. and share data publically
- Ensure public rest rooms are cleaned
- Partner with media to spread the message
- Look for ways for people to use bathrooms without contaminating fixtures (e.g. self-opening doors etc.)
- Ensure access to water bottle refill stations in public places (freeze proof like at Chautauqua)
- Sunscreen dispensers at trailheads (like Colton Rd. Superior "Defeat Melanoma") with reminders of importance of using sun protection

Amelia

Amelia C. Hulbert, BSPH
Healthy Eating, Active Living Specialist
Boulder County Public Health
Boulder, CO 80304
P: 303.441.1382
ahulbert@bouldercounty.org
www.BoulderCountyHealth.org

From: Rich Andrews

To: <u>Boulder County Board of Commissioners</u>

Subject: Health inputs to Comprehensive Plan updates

Date: Saturday, August 18, 2018 6:15:42 PM

Attachments: Health elements for Comp Plan update submitted by Richard Andrews August 18 2018.docx

Boulder County Commissioners

Please see the attached comments regarding improving the health of the people of Boulder County by improving the management of agriculture in our county.

Particularly important in implementing these recommendations is greater involvement of public health considerations and concerns in the management of the extensive agricultural lands owned by the people of this county. The Boulder County Health Department and its Board should be much more heavily engaged, for it is far more than a Land Use Department and Open Space Department matter. These recommendations are based on the fundamental concept that those public lands which we own should be used for the larger benefit of our whole population, and in particular for the benefit of our very large and less advantaged and food insecure people of our county. For often cited as a wealthy county, it is shameful that about 40,000 people in our county are considered food insecure. That needs to change.

We also need to become leaders in proving and establishing as the norms the benefits of ecologically sound agricultural practices, which have definite public health elements. As noted in my comments this couples with county stated objectives to reduce greenhouse gas emissions, but which current policies work in opposition to that objective. We can do this....but it will take brave, paradigm shifting leadership. That is what I expect from you as elected officials.

I stand ready to assist with achieving the recommendations provided in these comments.

Richard Andrews 6803 Jay Road Boulder, CO 80301

From: <u>Hulbert, Amelia</u>
To: <u>Ruano, Jose</u>

Subject: FW: RE: Invitation to attend BCPH and Boulder County Land Use Open House Monday Aug. 20th 6-8pm @ the

St. Vrain Hub

Date: Friday, August 31, 2018 9:12:39 AM

Attachments: <u>image001.png</u>

image002.png image003.png

Hi Jose,

Rachel received this email with PH chapter comments from a colleague. Can you make sure this is added to all other comments. I believe you're keeping track of wufu, phone, email and open house comments?

Thanks!

From: Arndt, Rachel

Sent: Friday, August 31, 2018 7:59 AM

To: Hulbert, Amelia

Subject: Fwd: RE: Invitation to attend BCPH and Boulder County Land Use Open House Monday Aug.

20th 6-8pm @ the St. Vrain Hub

Rachel Arndt

----- Forwarded message -----

From: "Helwig, Carol" <chelwig@bouldercounty.org>

Date: Aug 13, 2018 3:48 PM

Subject: RE: Invitation to attend BCPH and Boulder County Land Use Open House Monday

Aug. 20th 6-8pm @ the St. Vrain Hub

To: "Arndt, Rachel" < rarndt@bouldercounty.org>

Cc:

This is great!

I have an idea, likely not actionable, just an observation, and fantasy as a mom. The link didn't work in the email. so here it is:

It's about getting back to a time when parents could let kids play at the park or in public spaces all day without having to be there helicoptering over them the whole time. The way things are now, I think that if I were to leave my kid at the park to play with other kids without my supervision, I'd get charged with child neglect and endangerment. Or maybe I'm paranoid enough that I wouldn't be able to do that anyway since I'm conditioned now to not let my kids out of my sight in public places. How did we get here, where kids can't play in parks or be anywhere in public without their parents/guardians? Maybe the policy solution is secure opportunities for kids to recreate independently? When my daughter turns 12, I can drop her off at the Gilpin rec center to use the pool without my supervision (low cost, but still I need to pay for it and she needed swim lessons to be able to get to that point). Other than that, I don't know of many options for her to independently recreate with other kids unless it's a camp, class, or other activity that I'm paying (sometimes a lot of

\$\$\$) for.

Carol

From: Arndt, Rachel

Sent: Monday, August 13, 2018 3:32 PM

To: Arndt, Rachel

Cc: Wobus, Nicole; Ruano, Jose; Hulbert, Amelia

Subject: Invitation to attend BCPH and Boulder County Land Use Open House Monday Aug. 20th 6-8pm

@ the St. Vrain Hub

Please join us for an Open House on Monday, August 20th, from 6-8pm at the St. Vrain Hub to share your ideas about how best to manage Boulder County lands to support your health. You are encouraged to share this invitation widely with your clients and networks.

If you are unable to attend in person, you may also share your ideas online here.

If you have any questions, please contact Rachel Arndt (rarndt@bouldercounty.org) or Amelia Hulbert (ahulbert@bouldercounty.org).

Thanks and hope to see you at the St. Vrain Hub!

Rachel and Amelia



2201 Broadway, Suite 502 Oakland, CA 94612 510.302.3380 changelabsolutions.org

From: Erik Calloway, Senior Planner

To: Amelia Hulbert

RE: Examples of Rural Communities with Health Elements

Population less than 5k

- Greensburg, Kansas
 - http://www.greensburgks.org/residents/recovery-planning/sustainable-comprehensivemaster-plan/view
 - o Population: 771 (2016)
 - Health is directly addressed in the Parks & Green Corridors chapter, and integrated throughout the plan. It is also one of the state plan goals ("Improve quality of life by promoting a healthy and active lifestyle").
- Bar Harbor, Maine
 - https://barharbormaine.gov/ArchiveCenter/ViewFile/Item/95
 - o Population: 5,235 (2010)
 - Health is integrated throughout the plan

Population 5-10k

- Montpelier, Vermont
 - o www.montpelier-vt.org/documentcenter/view/3079
 - o Population: 7,535 (2016)
 - o There is a stand-alone Health & Wellness chapter (Goal E)
- Anderson, California
 - http://www.ci.anderson.ca.us/andersonca/departments/kristen_development_services
 and building departments/uploads/General Plan 2007.pdf
 - o Population: 10,209 (2014)
 - o There is a stand-alone Health and Safety element
- Victoria, Minnesota
 - http://www.ci.victoria.mn.us/DocumentCenter/View/34
 - o Population: 8,374 (2014)
 - o Health is integrated throughout the plan and is one of the plan goals.
- Groton, Massachusetts
 - http://www.townofgroton.org/Town/TownDepartments/LandUseDepartment/MasterPl an.aspx
 - o Population: 10,846 (2010)
 - Health is integrated throughout the plan
- Guymon, Oklahoma
 - https://www.guymonok.org/DocumentCenter/View/596
 - o Population: 11,703 (2016)
 - Health is integrated throughout the plan

Counties with rural areas

- Winston-Salem/Forsyth County, North Carolina
 - http://www.legacy2030.com/
 - Ch. 12 Rural Character
 http://www.cityofws.org/Portals/0/pdf/planning/Legacy2030/Legacy2030_20130828_1
 Chapter12.pdf
- Alachua County, Florida
 - o https://growth-management.alachuacounty.us/Planning/Elements
 - There is a stand-alone Community Health Element https://growth-management.alachuacounty.us/formsdocs/comp-plan.pdf#page=413
- Baltimore County, Maryland
 - https://www.baltimorecountymd.gov/Agencies/planning/masterplanning/masterplan20
 20download.html
 - There is a stand-alone Public Safety and Health section within the Community Services
 chapter
 http://resources.baltimorecountymd.gov/Documents/Planning/masterplan/mp2020/dc
 - Case study in: https://planning-org-uploaded-media.s3.amazonaws.com/legacy_resources/research/publichealth/pdf/healthyplanningreport.pdf
- Doña Ana County, New Mexico

ommservices.pdf

- http://www.vivadonaana.org/content/files/DAC_Plan2040_Final_V2_Disclaimer%282%
 29.pdf
- o There is a stand-alone Health chapter
- Case study in: https://planning-org-uploaded-media.s3.amazonaws.com/legacy_resources/research/publichealth/pdf/evaluationrepo-rt.pdf
- Kings County, California
 - https://www.countyofkings.com/departments/community-developmentagency/information/2035-general-plan
 - There is a stand-alone Health and Safety element https://www.countyofkings.com/home/showdocument?id=13515
 - They have community plans for rural communities (Armona, Home Garden, Kettleman City, and Stratford)
- Niagara County, New York
 - http://www.niagaracounty.com/Portals/0/docs/NCCompPlan/Final_NiagCommCompPlan.pdf
 - o There is a stand-alone Public Health and Safety chapter

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| | Draft Public Health Policy | Referral Comments | Proposed Change |
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| Goal 1 | Fostering Healthy Families and Communities. Boulder County values and creates environments that foster healthy families and communities. | City of Longmont: This corresponds to the Envision Guiding Principle 4 of a safe, healthy, Adaptable Community," particularly goals related to supporting increased access to affordable and healthy food. | N/A |
| PH 1.010 | Healthy Foods and Beverage Environments. Boulder County works to improve food and beverage environments (i.e., places where food and drinks are sold), access to clean water, and local, healthy, and nutritious foods for all residents regardless of income. | City of Longmont: Also believe that it is critical that we "improve food and beverage environments, access to clean water, and local, healthy and nutritious foods for all residents regardless of income." | N/A |
| Goal 2 | Promote Safe and Healthy Recreation and Connections to Nature. Boulder County collaborates with partners and municipalities to promote safe and healthy recreation and access to open spaces and nature that support physical and mental health. | BC Parks and Open Space: "Open Space Opportunities" seems overly specific in the goal statement when recreation and connections to nature can occur in a variety of contexts. Also, "connect with nature" is used in the text of PH 2.01 which I am suggesting deleting. | Staff incorporated the suggested revisions to the goal 2 title. |
| PH 2.01 | Open Space and Nature. Boulder County recognizes and values the physical and mental health benefits of open space areas, trails, and amenities that allow members of the public to safely enjoy the outdoors and connect with nature. | BC Parks and Open Space: This is a value statement that restates the goal, not a policy – delete? | Staff proposes to keep the value statement policy PH 2.01, considering goals are not policies. The value statement serves as a policy under the overarching goal. |
| PH 2.02 | Outdoor Access and Programing. Boulder County strives to understand and meet the preferences and needs of all visitors and residents for nature access and programing with particular attention | BC Parks and Open Space: Include programing since it is an important aspect of what we offer. Not sure we target "vulnerable populations" specifically. | Staff added language to policy PH 2.02 to include programming and the needs of all residents with particular |

| | to historically marginalized, elderly, differently abled, young and low-income populations. | | attention to historically marginalized populations. |
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| Goal 3 | Transportation Safety and Accessibility. Boulder County supports transportation infrastructure and programs that are safe and accessible for all residents regardless of geography or transportation mode to improve mobility options for all. | Niwot Community Association: Respectfully asks that the county consider the adopting the policy approach of "Complete Streets" for all geographic areas, as a public health measure, adequately addressing the "first and last" mile for all residents. | Staff addresses the "complete streets" and "first and last" mile concepts in policy PH 3.04. |
| Goal 3 | Transportation Safety and Accessibility. Boulder County supports transportation infrastructure and programs that are safe and accessible for all residents regardless of geography or transportation mode to improve mobility options for all. | City of Longmont: Policies under this goal directly corresponds to Envision Longmont's Guiding Principle 2 related to a complete, balanced and connected transportation system. | N/A |
| PH 3.01 | Injury Prevention. Boulder County strives to eliminate severe injuries and fatalities on the transportation network in unincorporated Boulder County through engineering, encouragement, education, and enforcement projects and programs. | BC Transportation: Can we take some VisionZero language and put it in here? | Staff incorporated the suggested VisionZero language to policy PH 3.02 |
| PH 3.02 | Employment and Services Access. Boulder County supports partnerships with community organizations and transportation providers to improve transportation options for residents in rural and mountain communities, with the goal of increasing access to job opportunities, education, healthcare, mental health services and social services. | BC Transportation: Add access to "job opportunities, education." | Staff added language to policy PH 3.02 to incorporate the goal of increasing job opportunities and education for residents in rural and mountain communities. |

| PH 3.04 | Active and Multimodal Transportation. Boulder County supports active and multimodal forms of transportation, such as biking, walking and public transit, to help improve opportunities for exercise as well as reducing greenhouse gas emissions. Boulder County will continue to work with local and regional partners to improve the safety, accessibility and attractiveness of infrastructure that supports these modes. | BC Transportation: Reword to "Boulder County supports active forms of transportation, such as biking and walking, to help achieve minimum daily requirements of low to moderate exercise. Boulder County will continue to work with local and regional partners to improve the safety and attractiveness of non-motorized infrastructure." | Staff added the terms "active and multimodal" forms of transportation in policy PH 3.04 to encompass walking, biking, and public transit to improve opportunities for exercise as well as reducing greenhouse gas emissions |
|---------|--|---|--|
| PH 3.04 | Active and Multimodal Transportation. Boulder County supports active and multimodal forms of transportation, such as biking, walking and public transit, to help improve opportunities for exercise as well as reducing greenhouse gas emissions. Boulder County will continue to work with local and regional partners to improve the safety, accessibility and attractiveness of infrastructure that supports these modes. | City of Boulder Open Space and Mountain Parks: Content for Text Box/Sidebar: Ecological resource factors are to be given adequate consideration in light of potentially expanding path infrastructure. This consideration may include environmental health plans, environmental impact statements, letters of agreement, trained manpower, ordinances, criteria, rules and regulations. | The Environmental Resources element of the Boulder County Comprehensive Plan (BCCP) highlights consideration of potential impacts on environmental resources as well as other resources that may be identified on site and mitigation of those impacts. |
| PH 4.01 | Fruit and Vegetable Consumption and Production. Boulder County encourages fruit and vegetable consumption and specifically projects that increase healthy food access for low-income populations through production and other means. | BC Parks and Open Space: Respect the limitations of our growing conditions We want to make sure we reflect the realities of our landscape and the environmental impact of various farming systems. | Staff clarified that food insecurity exists for low-income individuals and kept "production" in the proposed policy PH 4.01. This encompasses fruit and vegetable production that is not specifically on county land but could pertain to nonprofits that grow and harvest fruits and vegetables on private land |

| | | | to donate to hunger relief agencies, as well as general fruit and vegetable production occurring in the county. |
|---------|--|---|---|
| PH 4.03 | Affordable Healthy Foods Access. Boulder County partners with community organizations to increase access to affordable, healthy foods at food distribution locations and seeks to increase access to healthy food in lower resourced areas, such as rural and mountain communities. | BC Parks and Open Space: Wondering if the word "existing" is intentional; would it be better to delete it? | Staff incorporated the suggested revisions to policy PH 4.03 to eliminate the word "existing." |
| PH 4.05 | Local Agriculture Viability. Boulder County helps protect the viability of local agriculture to ensure local food production and supply by seeking to address the needs of farmers, ranchers, and other local food producers, and supporting the adoption of regenerative, biodynamic, and other resilient agricultural practices. | BC Parks and Open Space: This policy statement feels perhaps unfinished, in that it doesn't address non-farmer and non-rancher food producers or the people receiving the food. | Staff incorporated the suggested revisions to policy PH 4.05 and to eliminate the term adequate. |
| Goal 5 | Creation, Conservation and Preservation of Existing Affordable Housing. Boulder County recognizes safe, stable and healthy housing as a social determinant of health and prioritizes the creation, conservation and preservation of existing affordable housing to align with the county's affordable housing goals. | Member of the Public: Add "creation" to the goal statement. | Staff incorporated the suggested addition of the word "creation" to the goal 5 title. |
| PH 7.01 | Minimize Climate Change Impacts. Boulder County works to minimize the negative impacts of climate change through education, long range and emergency preparedness planning and | BC Parks and Open Space: Propose for consideration a policy that highlights the connection between education, women, and girls and that the county support those sorts of programs. | Staff incorporated highlighting "education" in policy PH 7.01 |

| | resiliency efforts that seek to reduce the threat of climate-induced emergencies, | | |
|---------|---|---|---------------------------------|
| | such as high heat, drought, flooding, | | |
| | wildfire, and food and water shortages, | | |
| | on the most vulnerable residents. | | |
| PH 7.01 | Minimize Climate Change Impacts. | Transportation Floodplain Team: | Staff incorporated the addition |
| | Boulder County works to minimize the | Add "flooding" after the word drought. | of "flooding" in policy PH |
| | negative impacts of climate change | | 7.01. |
| | through education, long range and | | |
| | emergency preparedness planning and | | |
| | resiliency efforts that seek to reduce the | | |
| | threat of climate-induced emergencies, | | |
| | such as high heat, drought, flooding, | | |
| | wildfire, and food and water shortages, | | |
| | on the most vulnerable residents. | | |
| PH 7.02 | Protect from Climate Change Impacts. | City of Boulder Open Space and Mountain Parks: | The Environmental Resources |
| | Boulder County works to track emerging | Content for Text Box/Sidebar: Ecological resource | element of the Boulder County |
| | vector borne diseases that impact our | factors are to be given adequate consideration in light | Comprehensive Plan (BCCP) |
| | region, and collaborates with national | of potentially impactful preventive measures. This | highlights consideration of |
| | and state partners to ensure preventative | consideration may include environmental health | potential impacts on |
| | measures are taken to protect public | plans, environmental impact statements, letters of | environmental resources as |
| | health and minimize the negative health | agreement, trained manpower, ordinances, criteria, | well as other resources that |
| | impacts of climate change. | rules and regulations. | may be identified on site and |
| | | | mitigation of those impacts. |