North Santiam Canyon Infrastructure-Related Community Health Assessment

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Focus of this assessment:

• What health issues might be impacted by proposed infrastructure improvements?

• What do we know about these health issues in the North Santiam Canyon communities?
Infrastructure ➔ Health Issue ➔ Health Outcome

- Wastewater Systems
- Broadband
- Transit
- Jobs
Wastewater Systems

Broadband

Transit

Jobs

Health Issue

Drinking water quality

Health Outcome

Multiple infectious and diarrheal illnesses
Wastewater Systems

Broadband

Transit

Jobs

Infrastructure

Health Issue

Drinking water quality

Telehealth

Clinic viability

Dr. appointments

Health information

Access to goods and services

Health Outcome

Multiple infectious and diarrheal illnesses

Multiple mental and physical health issues

Health Authority
Wastewater Systems

Broadband

Transit

Jobs

Drinking water quality

Telehealth

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Access to goods and services

Multiple infectious and diarrheal illnesses

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Wastewater Systems

Broadband

Transit

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Infrastructure

Health Issue

Drinking water quality

Telehealth

Clinic viability

Dr. appointments

Health information

Access to goods and services

Insurance

Health Outcome

Multiple infectious and diarrheal illnesses

Multiple mental and physical health issues

Health Outcome
Wastewater Systems

**Connection to health:** Wastewater systems can reduce a community’s reliance on septic systems and thereby reduce the risk of drinking water contamination from septic systems.
## Drinking Water Quality in North Santiam Canyon

<table>
<thead>
<tr>
<th>Domestic Wells</th>
<th>Public Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Common</td>
<td>• In all 5 communities</td>
</tr>
<tr>
<td>• Only tested when property is sold</td>
<td>• Tested regularly</td>
</tr>
<tr>
<td>• The few test records we have don’t indicate that there is an issue in the area with contamination from septic systems</td>
<td>• State drinking water test records don’t indicate that there is an issue in the area with contamination from septic systems</td>
</tr>
</tbody>
</table>
Connection to health: High quality and capacity broadband can impact health by:

- Facilitating telehealth
- Facilitating clinic viability
- Helping people keep appointments
- Improving access to health information
- Improving access to goods and services
## Broadband

<table>
<thead>
<tr>
<th>Telehealth</th>
<th>Clinics</th>
<th>Reminders</th>
<th>Information</th>
<th>Goods &amp; Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Can improve health care in rural areas</td>
<td>• Can improve health care in rural areas</td>
<td>• Text reminders are effective in helping people keep Dr. appointments and observe mental and physical treatment programs</td>
<td>• The benefits of Internet access to health information and advice include improved quality of care, timeliness and efficiency</td>
<td>• People with high-speed connections are more likely to shop on-line</td>
</tr>
<tr>
<td>• Increasingly common in Oregon</td>
<td>• There is a new clinic in Mill City</td>
<td>• Broadband + WiFi can improve wireless phone service</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Don’t know if lack of adequate broadband is a primary barrier for possible clinics in other communities</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Broadband Health Authority**
According to the Oregon Office of Rural Health, parts of the North Santiam Canyon are considered “areas of unmet healthcare need". The benefits of improved broadband service might help address some of these needs.

Broadband can increase options for meeting some of the health needs identified by community members, including drug addiction and mental health issues.
ORH unmet needs composite metric

1. Percentage of Primary Care Visits Met
2. Ambulatory Care Sensitive Conditions (ACSC) Ratio
3. Travel Time to Nearest Hospital
4. Comparative Mortality Ratio
5. Low Birth Weight Rate
Percent of Primary Care Visit Needs Met 2016
Source: Oregon Office of Rural Health

ORH defines areas of unmet need as those below 77.2%.
Areas at 0% have no providers.
2016 Ambulatory Care Sensitive Conditions Hospitalization Ratios

Source: Oregon Office of Rural Health

ORH defines areas of unmet need as those above the mean rural area ratio of 1.25.
Connection to health: Transit can provide access to health supportive goods and services for people who don’t have cars.
Transit

- Accessing goods and services can be a challenge for Canyon residents

<table>
<thead>
<tr>
<th>MCHD Community Health Assessment Survey Data, 2015—uweighted</th>
<th>Marion County Overall (n=1,749)</th>
<th>Canyon (n=31)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I cannot access eye care when I want/need it.</td>
<td>19%</td>
<td>39%</td>
</tr>
<tr>
<td>I cannot access dental care when I want/need it.</td>
<td>18%</td>
<td>42%</td>
</tr>
<tr>
<td>I cannot access medical care when I want/need it.</td>
<td>11%</td>
<td>11%</td>
</tr>
<tr>
<td>I cannot access mental health care when I want/need it.</td>
<td>12%</td>
<td>16%</td>
</tr>
<tr>
<td>I cannot access pediatric care when I want/need it.</td>
<td>8%</td>
<td>3%</td>
</tr>
<tr>
<td>I cannot access addiction services when I want/need them.</td>
<td>8%</td>
<td>10%</td>
</tr>
</tbody>
</table>
2016 Average Travel Time to Nearest Hospital (minutes)

Source: Oregon Office of Rural Health

ORH defines areas of unmet need as those above 22 minutes.
Connection to health: Jobs provide income and, often, insurance. Income is the largest predictor of overall health and well-being, and insurance can improve access to care for most health issues.
2016 Rural Low Birthweight Rates (per 1,000 births)

Source: Oregon Office of Rural Health

ORH defines areas of unmet need as those above the mean rural area ratio of 1.25.