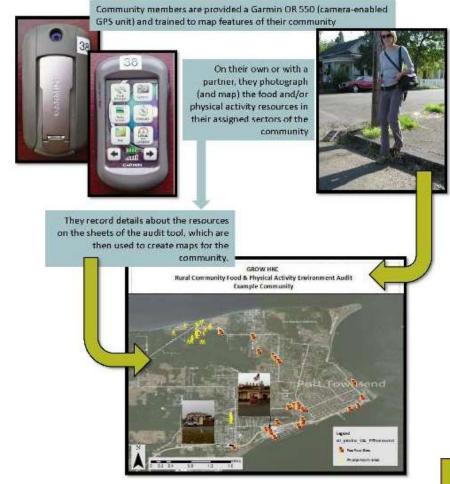
Rural
Community
Food
and Physical
Activity
Environment

Clatskanie Audit Results Maps 2013-2016

Oregon State

Extension Service



The information contained in this report can be used to drive decisions about land use and siting for new resources, to secure funding to improve the community food system, parks and recreation resources, and transportation planning. It can also be used by community members to seek out locally available and affordable healthy food and physical activity options.

This report was generated by Liana Harden and Jenny Rudolph, (Columbia County Extension Family and Community Health), in partnership with the GROW HKC project campus team: Winfield, T., John, D., and Gunter, K.



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GROW Healthy Kids & Communities Background Information

people, organizations, and communities to generate local options to support weight healthy lifestyles – healthy eating and physical activity every day – for all children and families.

GROW engages people in the communities we serve in assessing the conditions that most affect them where they live, learn, work and play. We do this to identify what changes will best support weight healthy behaviors for children and families and improve food and physical activity resources in the community.

HEAL MAPPS, one of the GROW programs, helped residents to tell their story of life in the community, their personal experiences or encounters with food and physical activity resources as either supporting or hindering weight healthy choices and habits.

People's lived experiences are very important for understanding how and why healthy habits develop.

In order to have the most complete picture of the food and physical activity environment, we need to know about <u>all</u> of the available resources: <u>who</u> makes food and physical activity available, <u>what</u> types of food and physical activity are available, <u>where</u> are they located, and is there a cost?

The Rural Community Food and Physical Activity Environment Audit is a participatory survey of <u>all</u> of the food and physical activity resources in the community. The auditors use cameraenabled GPS units and photomapping methods to document and survey resource availability and location. These surveys were done twice: first in 2013 and then again in 2016.

OSU faculty integrate community data with other geographic information systems (GIS) data to provide a visual report of the relationship between the location and types of food and physical activity assets and where most people live in the community.

GPS-Assisted Observational Survey Tool

GROW HKC Community Food Environment Audit

Please use the provided Garmin (GPS) unit, in conjunction with this survey, to map, photograph, and log information about all the food environment and resources in your community. If you do not have access to a Garmin unit, you may use any other GPS mapping device, such as a OStarz or GPS app on your smartphone, along with a camera. For each photograph that you take, please take care not to include people in your photographs.

Specifically, you will map, photograph and log information about all possible food resources in your community. Once you complete the audit of your sector, please check off all of the food resource categories that you encountered in your sector.

	A.	Grocery	Stores
_		CIOCELY	Offites

- ☐ B. Convenience Stores
- C. Roadside or Dockside Retailers
- D. Restaurants
- ☐ E. Vending Machines (in public spaces)
- ☐ F. Food Banks and Food Pantries

Food Assistance Programs, including:

- ☐ G. Meals on Wheels
- ☐ H. Gleaners
- ☐ I. Free Meal Sites
- ☐ J. Summer Meal Service Programs
- □ K. Farm Stands / U-Pick Operations
- L. Farmers Markets
- ☐ M. Community Gardens
- □ N. Hunting, Fishing and Foraging Supports
- □ O. Home-Based Food Retailers
- □ P. Other Community Food Resources

A gro	cery store is a retailer where people buy most of their food	i for meals and snacks.
	graphs and Logs: Please photograph and log (with the Gacross in your sector.	armin unit) each grocery store you
Taker	photo of the front of the grocery store. Take a single phot	to if you can capture the entire store a
	m with the store's name in a single shot. If you need to tak	
entire	store and the sign, take the shot looking straight ahead, an	d as needed, 1-2 shot(s) looking to the
eft an	d to the right. Record your photo code(s), below.	
	looking straight ahead	DSC JPG
	looking to the left (as needed)	DSC JPG
	looking to the right (as needed)	DSC JPG
Takas	additional photographs that describe the access to this store	a Framnles of photographs to take as
	below. For each feature that is present, please take no mor	그리는 경기 나는 사람들이 하면 살이 가득하는 것이 그릇을 하는 것이 되었다.
	Bike rack at the store	DSC IPG
_	Bus stop adjacent to the store	DSC IPG
	Parking at the store. Also, note the type of parking, belo	w. DSC JPG
1177	☐ Streetside	
	☐ Parking lot	
	Handicapped parking spaces at the store	DSCJPG
	Ramps / curb cuts that promote handicap accessibility	DSC JPG
	Evidence of walking access to the store	200
257	☐ Sidewalk leading to store	DSC JPG
	□ Crosswalks	DSC JPG
	Sign or poster that states the store hours	DSC JPG
	Sign or poster that states that the store takes	
-	SNAP, EBT or Oregon Trail	DSC JPG
	Sign or poster that states that the retailer	
	is a WIC-authorized vendor	DSC JPG
	Other access feature (Describe:	DSC . JPG
	Retailer Description: Please categorize this food retailer,	by answering the questions below to
bood		

Can you purchase products in bulk in this store?

Community Audit activities yield rich attribute data that can be associated with resource photos and tracks.

Community members collect this information while mapping by using a survey that integrates two research-based measures: the rural active living assessment and the community food security assessment. OSU researchers included additional items known to be influential in the rural food and physical activity systems, such as hunting, fishing, and foraging supports.

Rurality and Weight Health

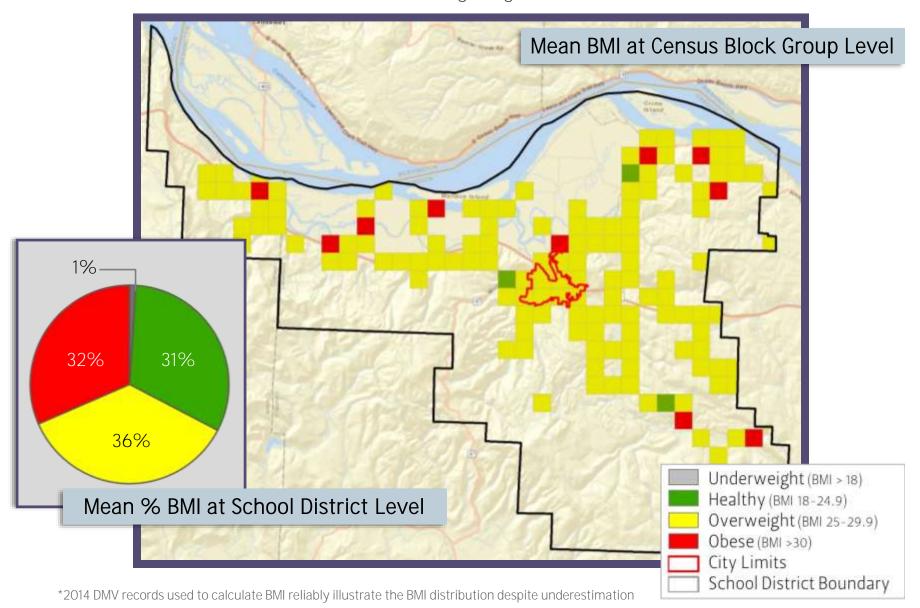


Many risk factors have been associated with childhood obesity, including rural residency

- Overweight/obesity prevalence is higher among children living in rural (36%) compared to urban (30%) areas
- Weight health and habits carry over into adulthood
- Rural communities face unique environmental challenges that can impact residents' healthy eating and physical activity lifestyle patterns
- Environmental strategies found to prevent obesity have focused on more urban areas

Clatskanie Community - Adult Weight Health (BMI)

Visualizing weight health in Clatskanie was enabled by the *Oregon Environmental Public Health Tracking Program

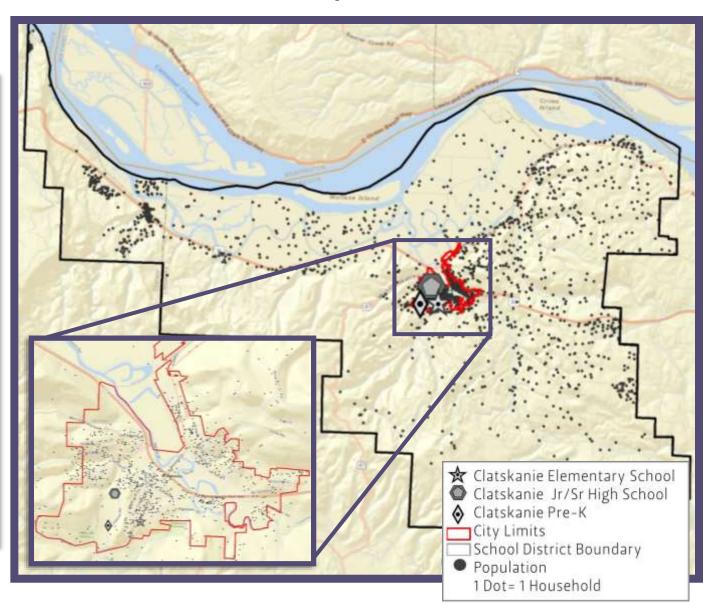


Where People Live Matters for Easy Access to Resources

Community Boundaries Include the Approximate School District Catchment Area ("School District Boundary") for Three Schools and Clatskanie City Limits

Within the School
District Boundary,
Clatskanie has 5508
people living in 2466
households (2010
census) spatially
dispersed in an area of
about 124 sq. mi.

Easy access to locally available resources is determined by proximity, transportation mode, ability to drive, cost & household income, etc. which will vary among families.

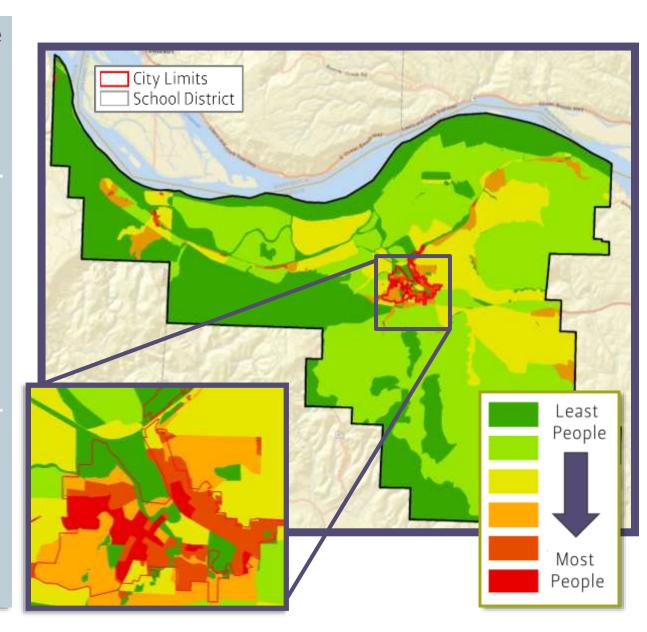


Using Maps to Show Where Most People Live...

Within audit boundaries, we calculated statistically significant clusters of population based on population density.

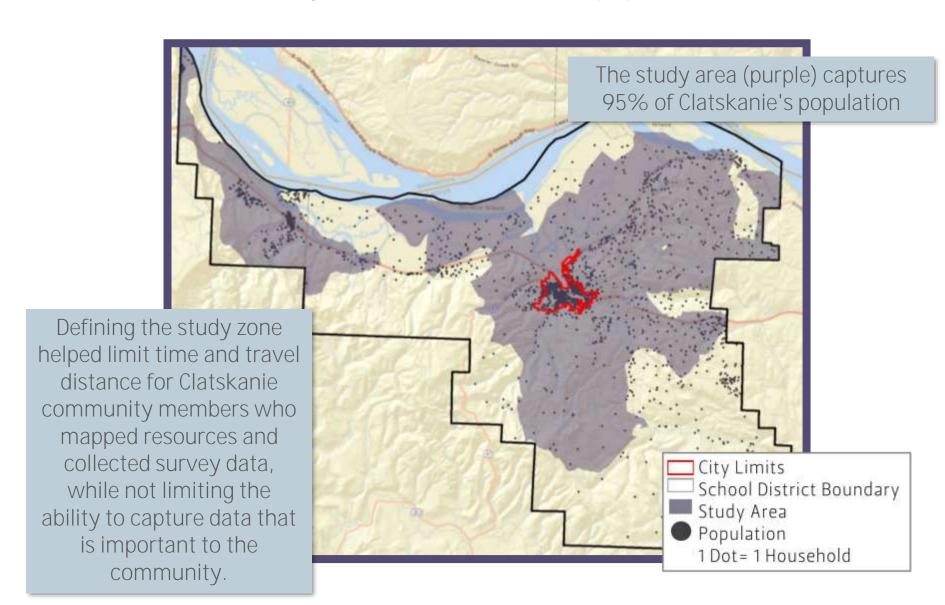
The geographic centers of these clusters were used to create network buffers, ranging in size from 2 to 5 miles, that captured 85% or more of the community population.

The yellow to red areas are the most highly populated; Clatskanie is sparsely populated (greens) throughout much of the boundary area.



Using Maps to Show Where Most People Live: Study Area

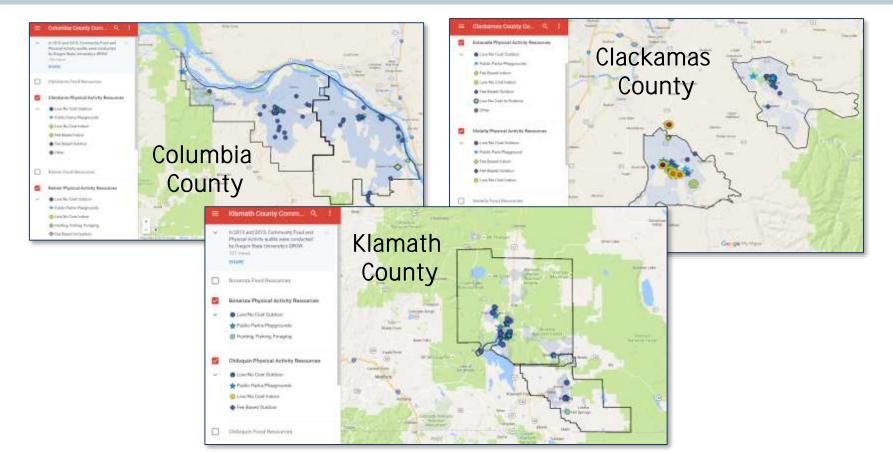
A "study area" was defined using the areas most densely populated, in order to determine the food and physical activity resources relevant to where <u>most people live</u>.



Resource Maps

We collected information on resources in each community in 2014 and again in 2016 to assess any changes in resource availability and accessibility in our communities. We created publicly available resource maps for each community and offer them in this report as well as online via google maps. These can be found by visiting the community maps section of the GROW HKC project website:

http://extension.oregonstate.edu/growhkc/outputs/maps

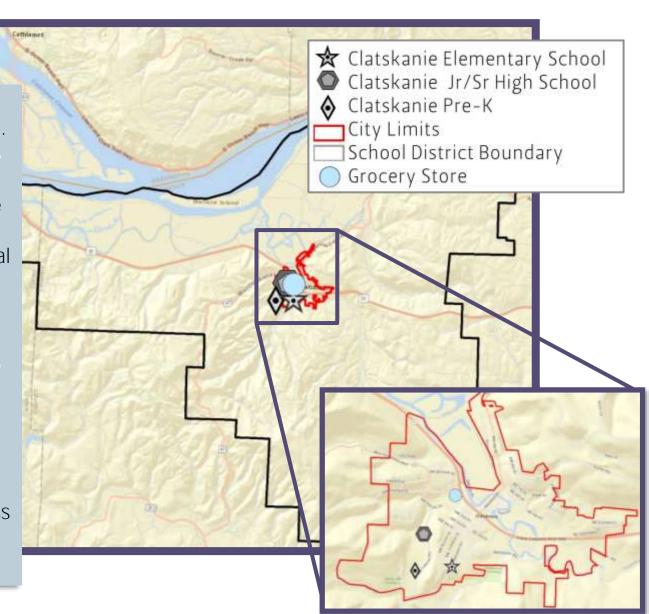


Grocery Store Locations

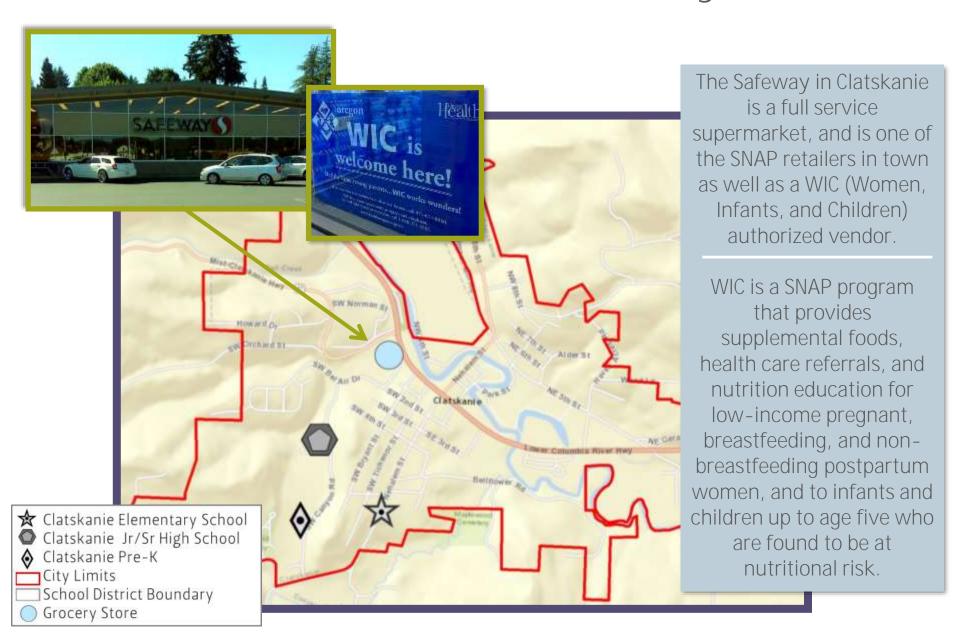
Clatskanie has one grocery store located within city limits.

The grocery store is a SNAP authorized store. SNAP, or the Supplemental Nutrition Assistance Program, is a federal program that offers nutrition assistance to income eligible families and individuals.

Based on a measure of availability of healthy food options, the "Modified Retail Food Environmental Index," Clatskanie scored "12.5" on scale ranging from 0 (no access to healthy food) to 100 (only access to healthy food).



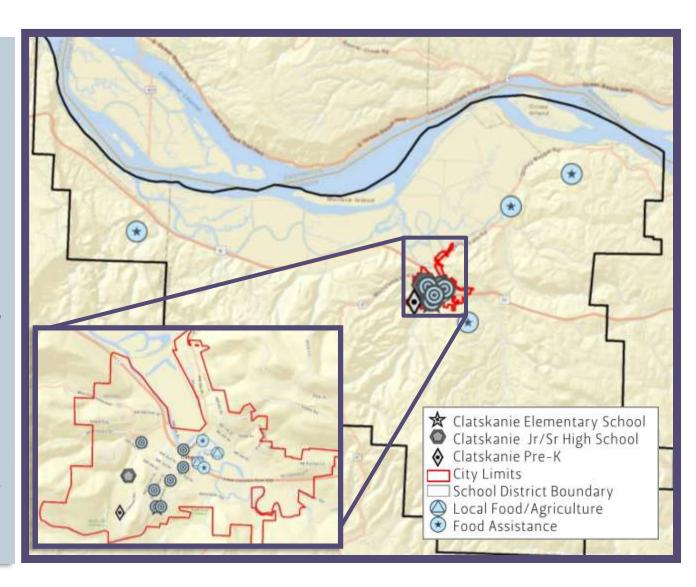
Resources for Groceries Shown by Location



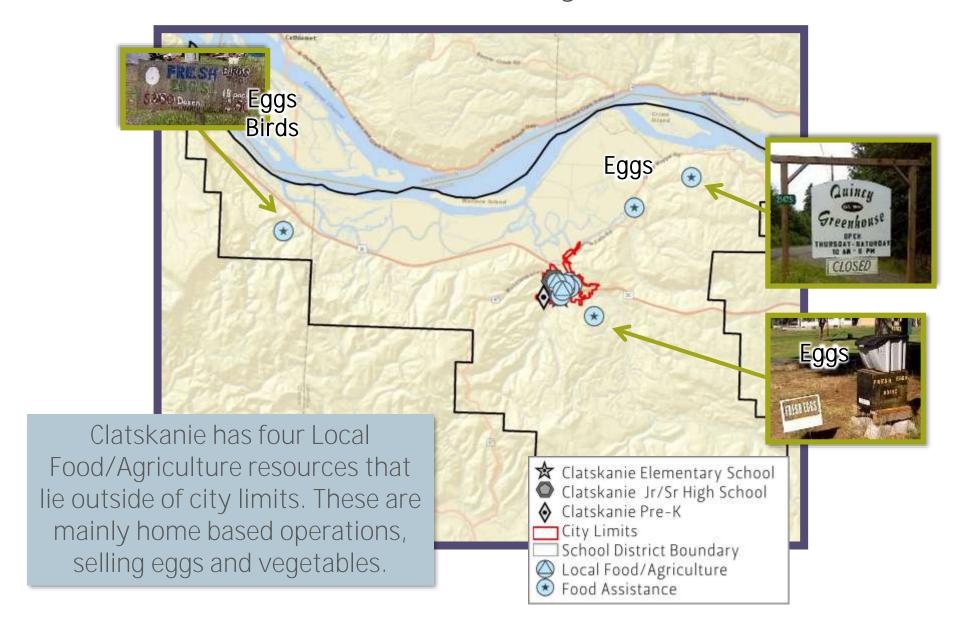
Change in Resources for Local Food, Agriculture & Food Assistance

Clatskanie has a variety of local food/agriculture and food assistance resources available, located mainly within city limits.

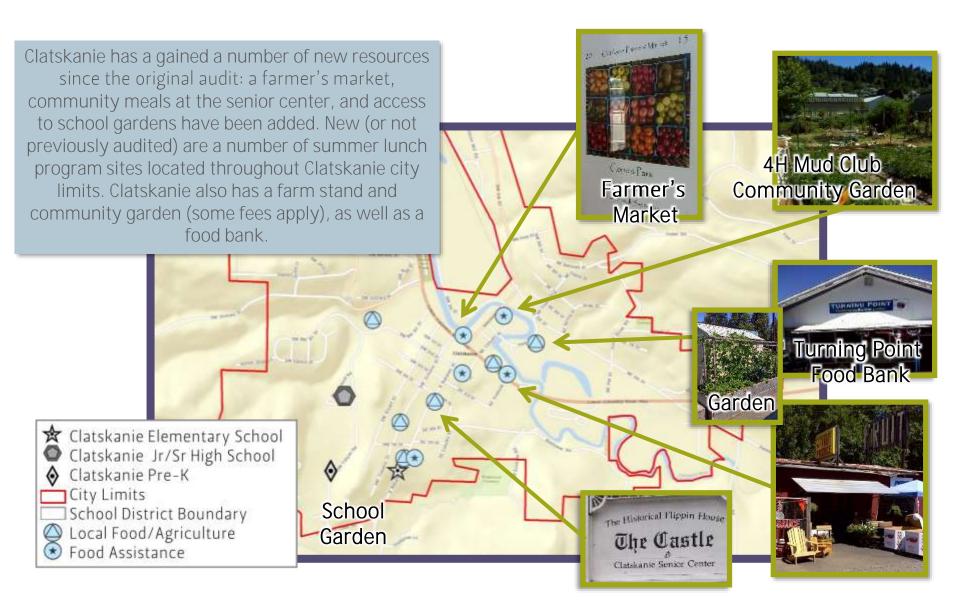
Local Food and Agriculture includes farm stands, upicks, home-based food retailers, farmer's markets, and hunting, fishing, and gleaning supports.
Food Assistance includes food banks, summer lunch programs, community meals and other supplemental food support programs.



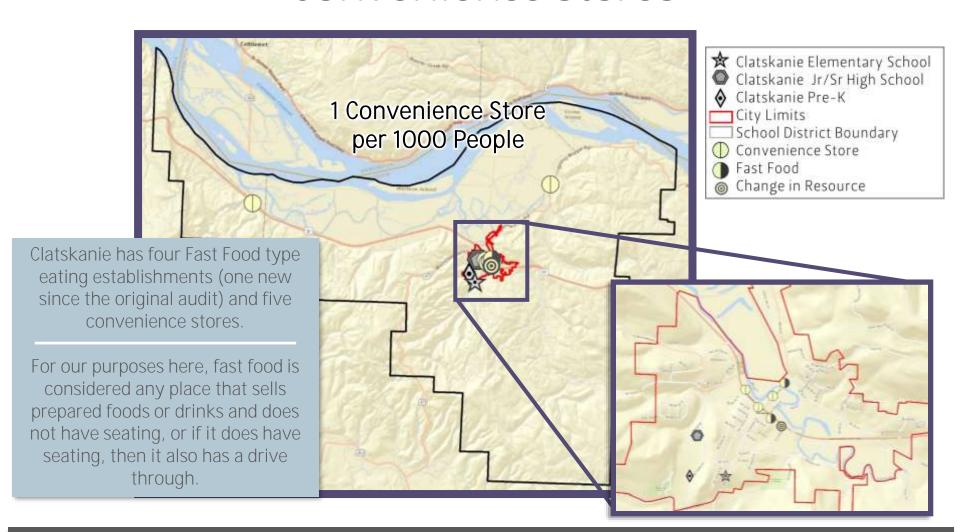
Resources for Local Food, Agriculture & Food Assistance Shown by Location



Resources for Local Food, Agriculture & Food Assistance Shown by Location



Change in Resources for Fast Food and Convenience Stores

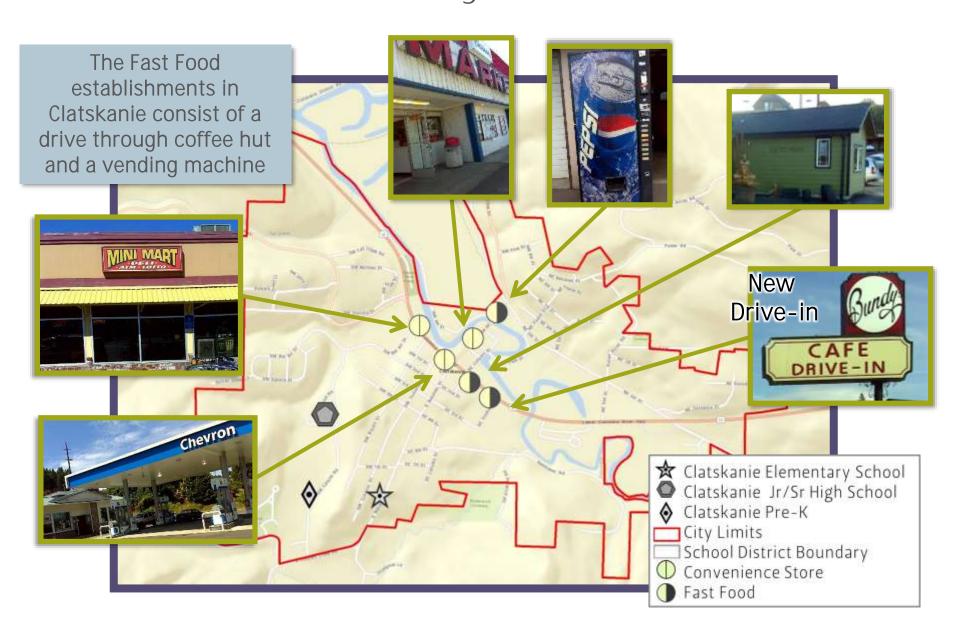


Clatskanie's "Modified Retail Food Environmental Index" score was 12.5 (out of 100). A lower score indicating a higher number of places that don't typically have healthy food and lower numbers of places that would typically have healthy food options

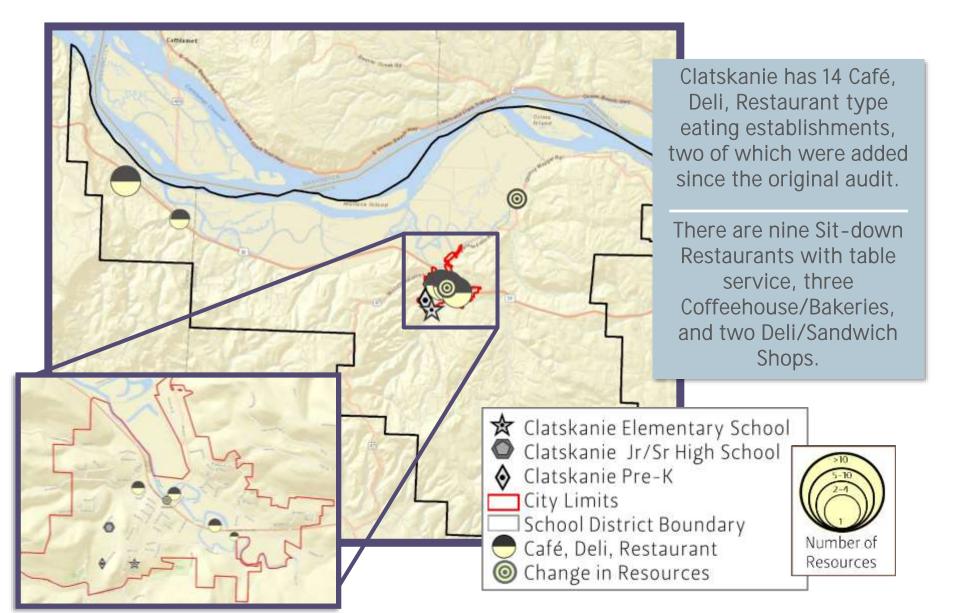
Resources for Fast Food and Convenience Stores Shown by Location



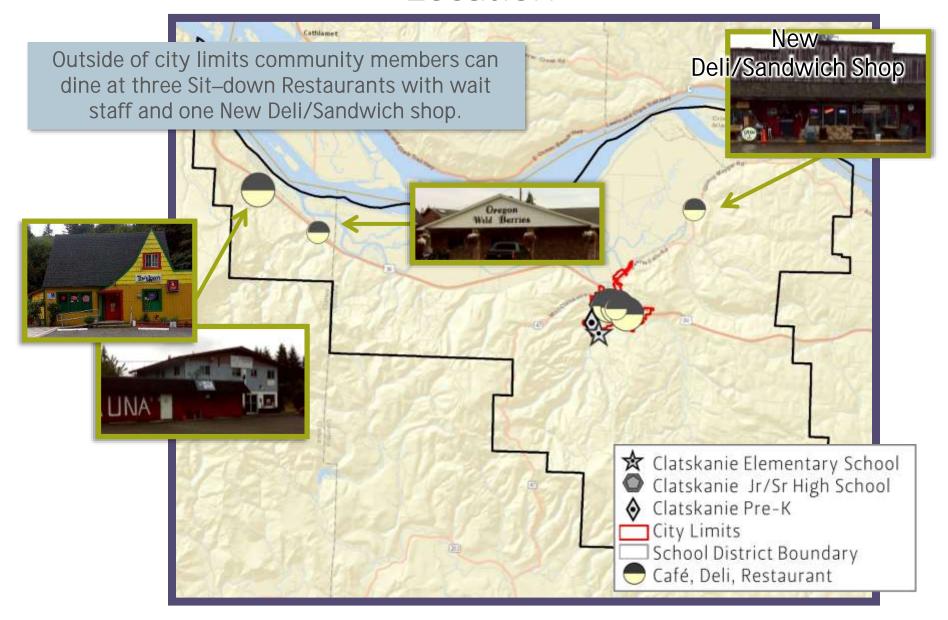
Resources for Fast Food and Convenience Stores Shown by Location



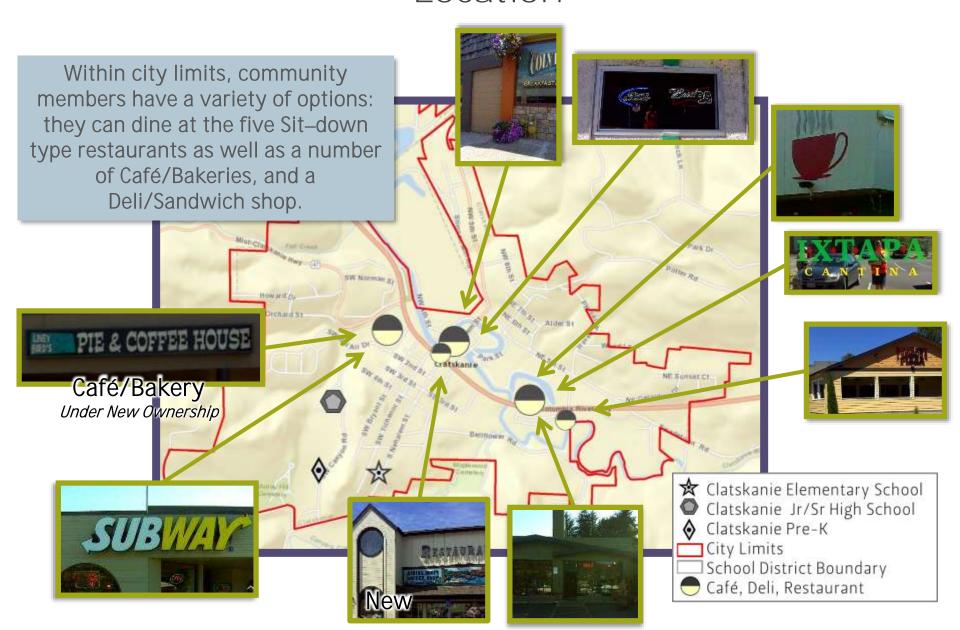
Change in Resources for Café, Delis, & Restaurants



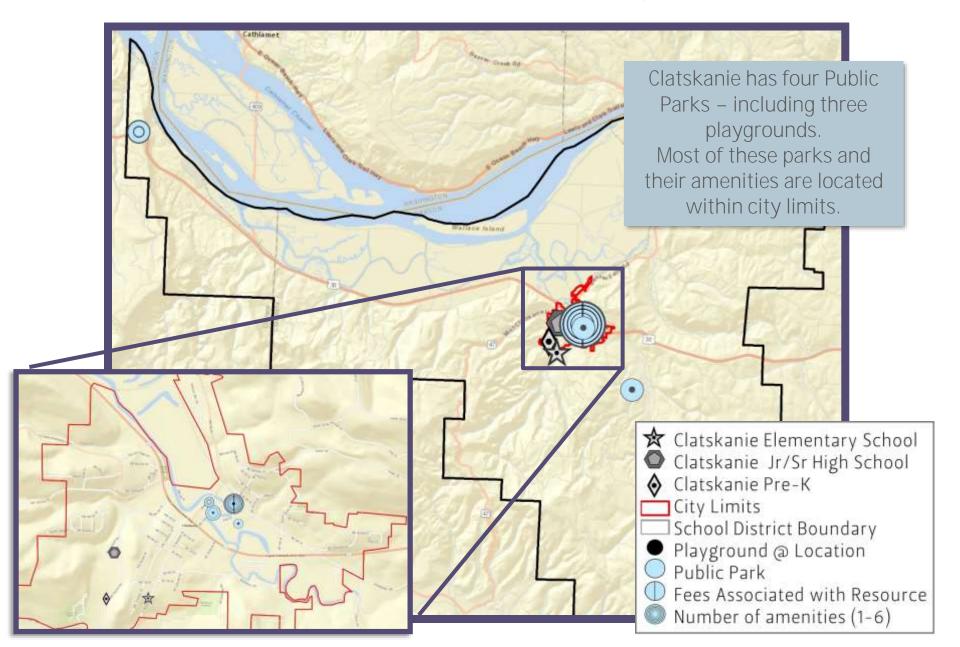
Resources for Café, Delis & Restaurants Shown by Location



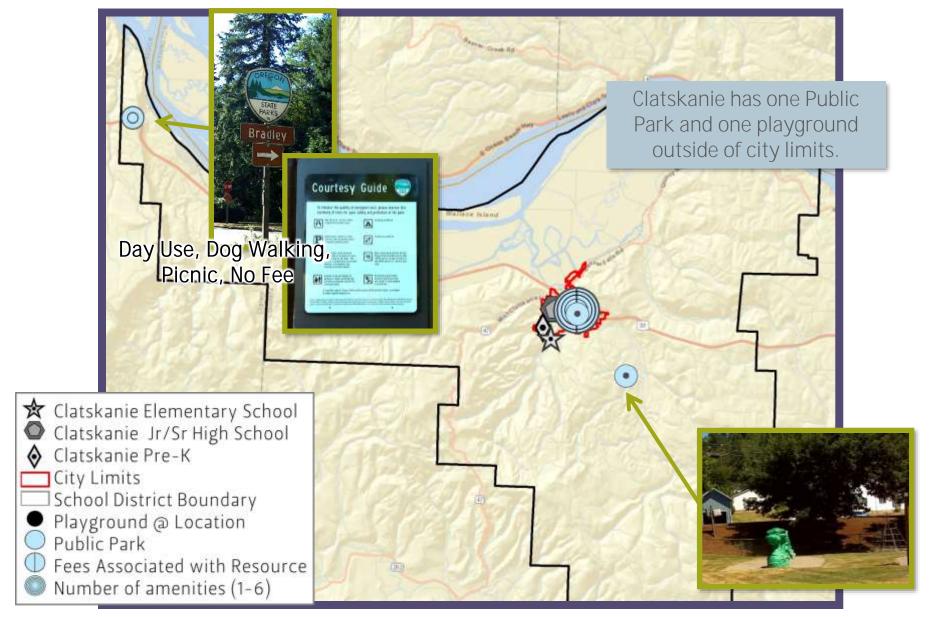
Resources for Café, Delis & Restaurants Shown by Location



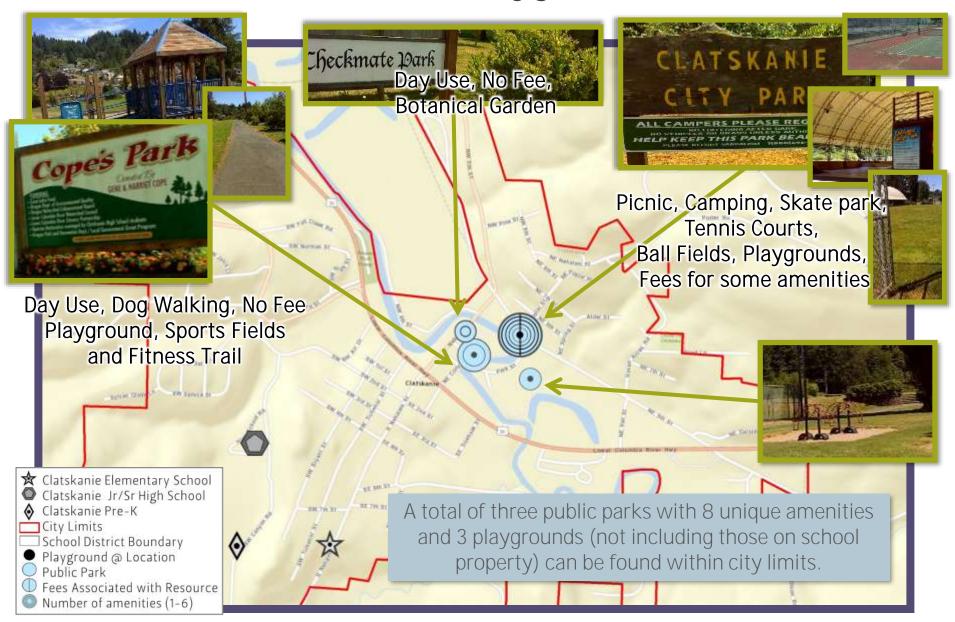
Public Parks and Playgrounds



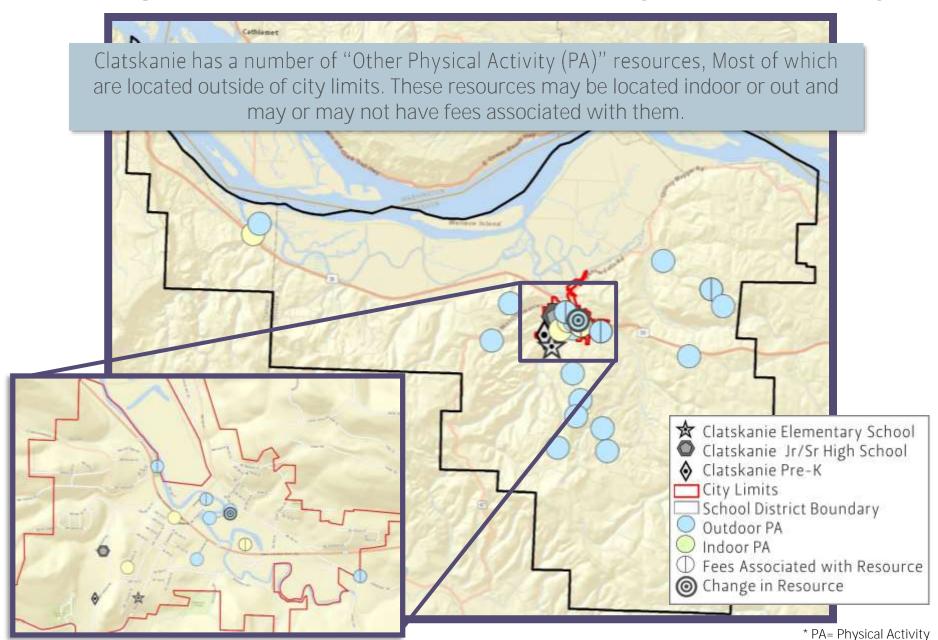
Resources and Amenities for Public Parks and Playgrounds Shown by Location



Resources and Amenities Shown by Location for Public Parks and Playgrounds



Change in Resources for Other Physical Activity



Resources for Other Physical Activity Shown by Location

Resources are mainly trails/logging roads on private timber land, which may be closed due to fire danger or logging activities. Hiking, Bike Riding, Horseback Riding, Dog Walking Equestrian Center Trails/Trailheads Westport Community Center Only Free-Indoor Trails/Trailheads PA Resource in area Clatskanie Elementary School Clatskanie Jr/Sr High School Clatskanie Pre-K City Limits School District Boundary Outdoor PA Indoor PA Trails/Trailheads Fees Associated with Resource

* PA= Physical Activity

Resources for Other Physical Activity Shown by Location



There are 10 "Other PA" resources located within city limits. These are mostly outdoor resources, the two indoor resource area fitness and recreation centers. Clatskanie added a new equipment check out program since the original audit.

Change in Resources for School Physical Activity Access

The school district allows public access to Gardens, Gyms, Track, Playgrounds, and various Sports/Playing Fields and Courts and has added further access to school gardens and a trail at the elementary school, as well as the high school track and forestry area.



Resources for School Physical Activity Shown by Location



Ease of Access to Resources

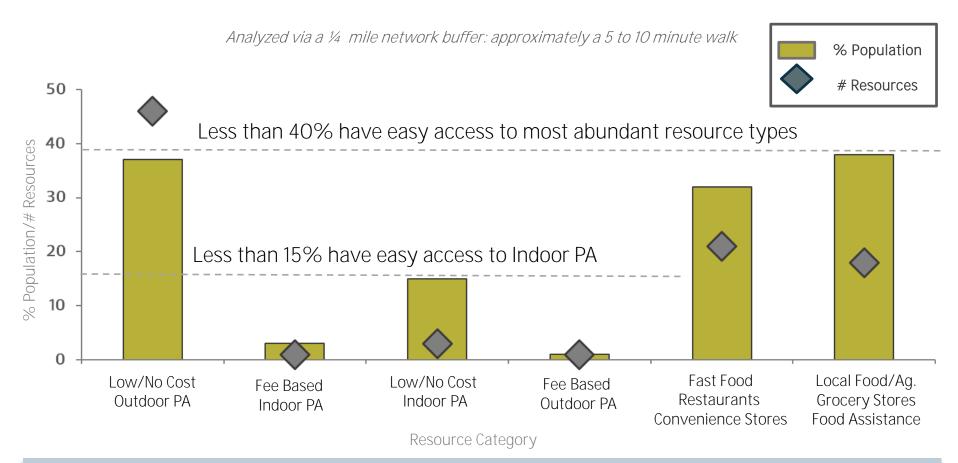
- Spatial accessibility is relative: if you have a car and gas money, your spatial access to resources is potentially only limited by how much time you want to spend in the car. As our goal is to include all potential community members, not just those with a means of transportation, we analyzed the proportion of community members who have "Easy Access" to resources.
- We described Easy Access as being located within a ¼ mile distance to a resource category.
- While Clatskanie does have some food and physical activity (PA) resources located close-in, the bulk of the PA and Local Food resources are located outside of city limits.
- Resources have been aggregated into 6 categories: o Low/No Cost Outdoor PA, o Low/No Cost Indoor PA, o Fee-Based Outdoor PA, o Fee-Based Indoor PA, o Local Agriculture, Grocery and Food Assistance, o Fast Food/Convenience Store and Restaurant

Low/No Cost PA Resources
Community Centers
Public lands/Parks & Playgrounds
Sports Fields/Courts

Fee-Based PA Resources
Golf Courses
Equestrian centers
Exercise/Fitness centers

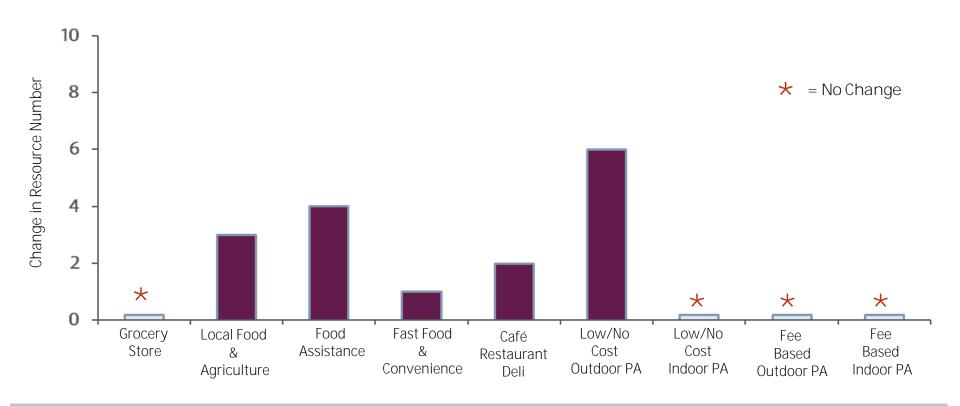
Local Agriculture
Farm stands/U-picks
Farmer's markets
Home-based sales (Eggs, Milk, Veggies)
Hunting/Fishing/Gleaning Supports

Ease of Access to Food and Physical Activity Resources



Clatskanie's ease of access to resources remained relatively stable with some nominal changes: a 3% increase in access to resources in the Local Food/Food Assistance/Grocery Stores category. Still, less than 40% have "easy" access to these resources and only about 13% have access to Indoor PA resources. Even though six new resources were added in the Low/No Cost Outdoor PA category, they were added at pre-existing resources (the schools), and as such offered no increase in spatial access.

Change in Number of Food and Physical Activity Resources

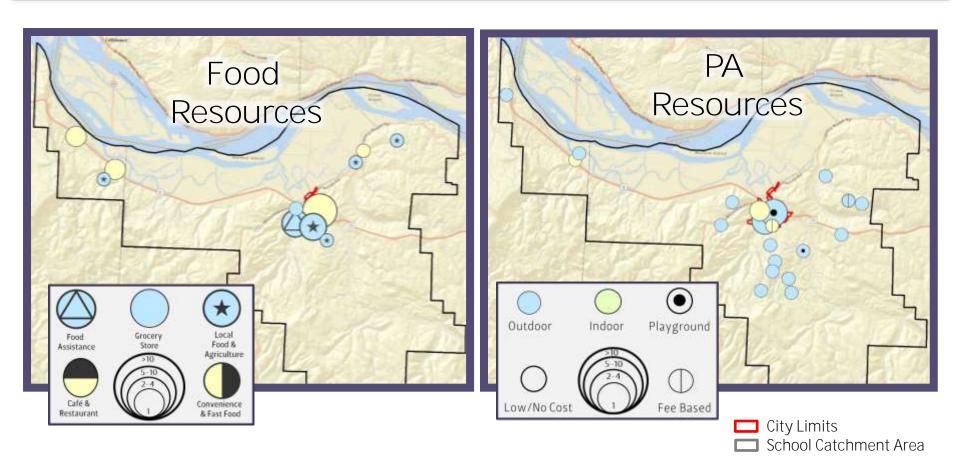


There were no changes in the number of grocery store resources in Clatskanie. However, food resources were added in the form of a farmer's market, community meals at the senior center, access to school gardens, new (or not previously audited) summer lunch program sites, a fast food restaurant as well as two new Café/Deli/Restaurants. There were no changes in any PA category except Low/No Cost Outdoor PA, where the school district added community access to a number of school resources.

PA=Physical Activity

Conclusions

In rural communities, a lack of available resources and accessibility to existing resources may make developing and maintaining healthy dietary and activity habits difficult.



Resources are available, but mainly located within city limits, leaving those who live in more rural areas without easy access. Supports need to be <u>affordable</u> and <u>accessible</u> from where people live and work.