



Understanding how Communities are Built and Maintained through Direct Observation and Mapping

Background

This activity helped researchers understand how different areas of the Bonnyville community have been designed, built and maintained. The community observation activity looked at a set of specific features in the Bonnyville community. These features were chosen because they can help or prevent community residents from making the decision to walk for transportation or for leisure.

The Community Observers

In September, 2008, community observers walked every street in the Town of Bonnyville. The observers stopped at a total of 296 locations. This number represents every piece of road between two intersections, every cul-de-sac and every dead-end street. At each of these locations, the observers documented the streets on 230 different features to determine how walkable the piece of street was.

Measuring how “Walkable” an Area is

A street, or an area of a community is found to be more walkable when it has more features that are supportive of walking and other physical activity. These features can be grouped into six categories:

Attractiveness

Features that enhance the pleasure of walking (examples: tree lined streets, sidewalks in good condition, parks and public spaces).

Diversity of Destinations

Features that are destinations community residents would be interested in accessing (examples: retail stores, schools, restaurants and grocery stores).

Density

Features that describe the number of people that could live in an area (examples: single family houses, duplexes, condos and apartment buildings).

Pedestrian Access

Features that make walking easier (examples: presence of sidewalks, access to a recreational trail system and different walking route options).

Safety from Crime

Features that suggest an area is more safe in relation to crime (examples: adequate lighting, and absence of bars on windows, graffiti and litter).

Safety from Traffic

Features that suggest an area is more safe in relation to traffic (examples: presence of marked crosswalks, traffic lights, speed bumps and a separation between the sidewalk and the road).

When streets have a larger number of the features within one of these categories, the area receives a larger category score. Areas with larger scores in all of the categories are found to be more supportive of walking, or, in other words, are more walkable.



Overview of the Bonnyville Results

Some results from the Bonnyville observation are shown here. It is important to note that the comparisons presented in these maps are based only on the differences between different street segments in Bonnyville. For example, if a street segment has a low rating for pedestrian accessibility, this does not necessarily mean the piece of street is not accessible. This simply means that in comparison to the other street segments in Bonnyville, the segment was observed as being less accessible.

A more detailed report from this analysis can be found on the DVD included with this package.

