



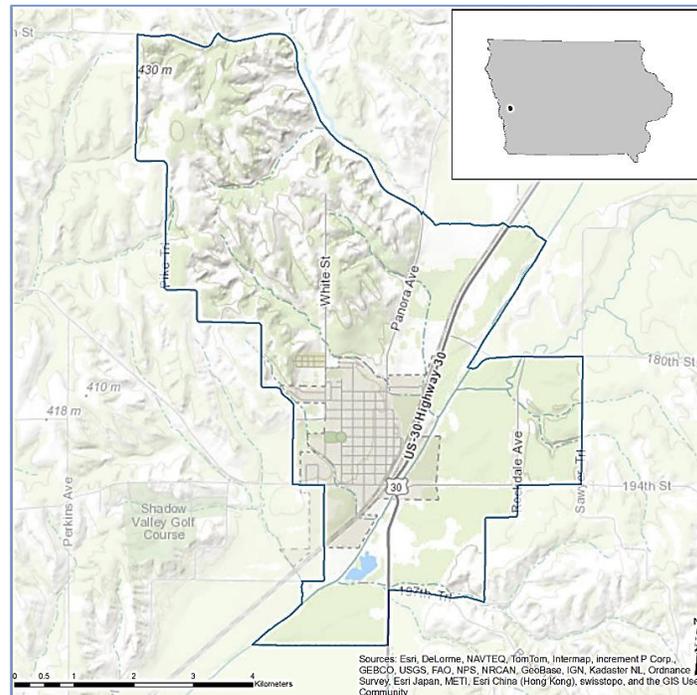
Woodbine, IA and surrounding area

Towns and cities rely on clean air, clean water, green space, and other natural amenities for economic sustainability and quality of life, yet their benefits are not always fully understood or considered in local decisions. EPA and its partners are producing EnviroAtlas to help communities better use environmental assets for public good.

EnviroAtlas includes an online interactive mapping application that anyone can use. The interactive map contains over 200 maps available for the U.S., as well as 100+ fine-scale maps for selected U.S. communities about existing and potential benefits from the local natural environment. The EnviroAtlas community component is based on 1-meter resolution land cover data. Information derived from these data is summarized by census block groups; more spatially explicit map layers are also provided. This fact sheet highlights some of the many community data layers available for the featured area of Woodbine, Iowa.

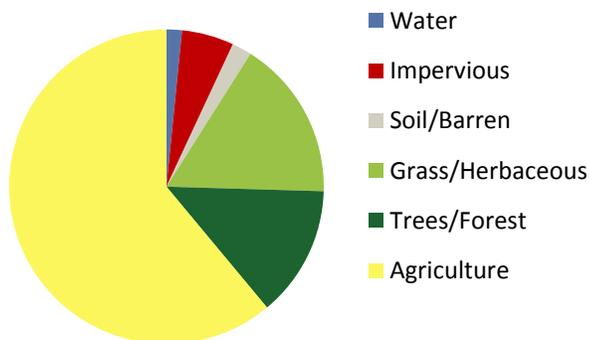
Background

The Woodbine, Iowa area was chosen as an EnviroAtlas community because citizens there helped to shape EPA's Sustainable and Healthy Communities Research Program in its formative stage. EPA Region 7 staff identified Woodbine for one of six EPA "listening sessions" across the U.S. The EnviroAtlas boundary for the Woodbine area was determined using the Woodbine municipal boundary. It encompasses most of the Town of Woodbine as well as portions of unincorporated Harrison County. The area measures 22 square kilometers, and encompasses 1 census block group.



The Woodbine area is in the Western Corn Belt Plains ecoregion. It has severe, humid climate with hot summers and cold winters. The region was historically vegetated with tall grass prairies; however, most of the region has been converted into agriculture. The leading industries are manufacturing and agriculture. Woodbine Manufacturing Company and Harrison County are among largest employers in the area. The demographics of the Woodbine community area indicate that the potential exists for income and other disparities in the distribution of environmental assets. EnviroAtlas can help screen for potential health and well-being disparities resulting from disproportionate distribution of "green infrastructure."

Percent Land Cover in Community Area



Woodbine Area Demographics
2010 Census

Total population	1,555
Under 13 years old	16.78%
Over 70 years of age	17.94%
Other than white/non-Hispanic	1.74%
Below twice the poverty level	38.81%

Ecosystem Services Overview

In EnviroAtlas, the benefits humans receive from nature are grouped into seven categories that demonstrate the interconnectedness of these ecosystem services:

- Clean air
- Clean and plentiful water
- Natural hazard mitigation
- Climate stabilization
- Recreation, culture, and aesthetics
- Biodiversity conservation
- Food, fuel, and materials (data available only for communities with farm land)

Examples of some of the data included in EnviroAtlas are detailed below:

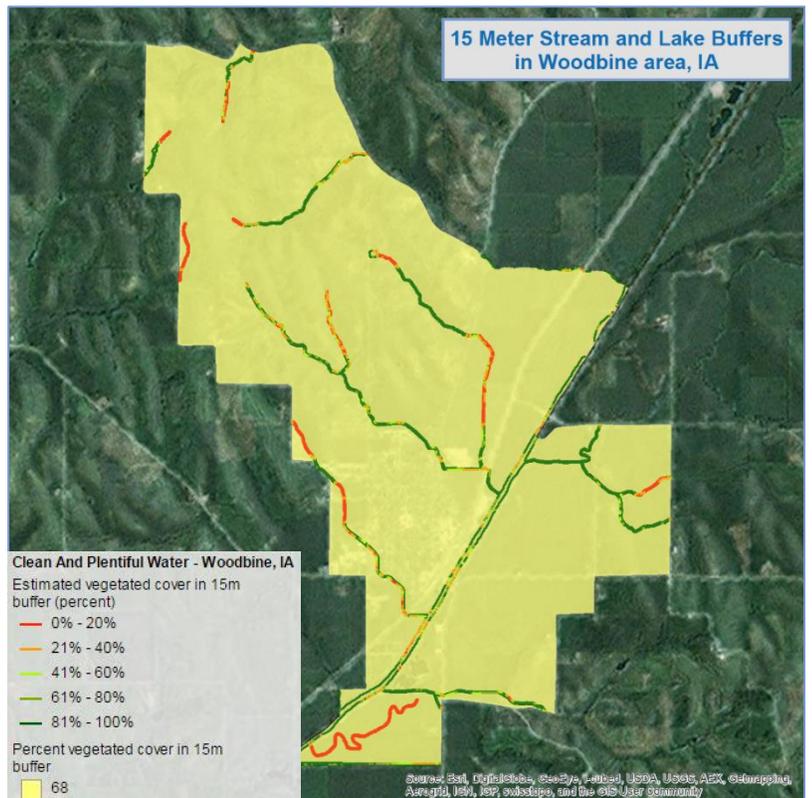
Green Space and Trees

Research indicates that physical and visual access to trees and other green space has positive physiological, cognitive, and emotional benefits. In the Woodbine community area:

- There are 12,952 square meters of green space per person.
- There are 22,963,578 tons of carbon stored in the local tree biomass with an additional 716,679 tons sequestered annually.
- 11,985 kilograms of ozone are removed from the air by local tree canopy every year.

Stream and Lake Buffers

Natural land cover adjacent to streams and rivers, sometimes called the riparian area or zone, helps protect water quality and supply for drinking, recreation, and



The distribution of vegetated cover near streams and lakes

aquatic habitat. The EnviroAtlas community component analyzes stream and lake buffers with widths of 15 and 50 meters.

- An estimated 3.7% of Woodbine's land area is within 15 meters of a stream or lake.
- 67% of Woodbine's 15 meter stream and lake buffers are vegetated.

EnviroAtlas Tools and Features

- Learn more about and download EnviroAtlas data: <https://www.epa.gov/enviroatlas/enviroatlas-data>
- Search our data layers and access their fact sheets: <https://www.epa.gov/enviroatlas/enviroatlas-dynamic-data-matrix>
- Explore data for the Woodbine community area in our interactive mapping application: <https://www.epa.gov/enviroatlas/enviroatlas-interactive-map>
- Use our Eco-Health Relationship Browser to explore ecosystems, the services they provide, and their benefits to human health and well-being: <https://www.epa.gov/enviroatlas/enviroatlas-eco-health-relationship-browser>
- Contact us with questions about EnviroAtlas: <https://www.epa.gov/enviroatlas/forms/contact-enviroatlas>

EnviroAtlas combines maps, graphs, and other analysis tools, fact sheets, and downloadable data into an easy-to-use, web-based educational and decision-support tool. EnviroAtlas helps users understand the connections between the benefits we derive from ecosystem services and the natural resources that provide them. For more information, please visit www.epa.gov/enviroatlas.