

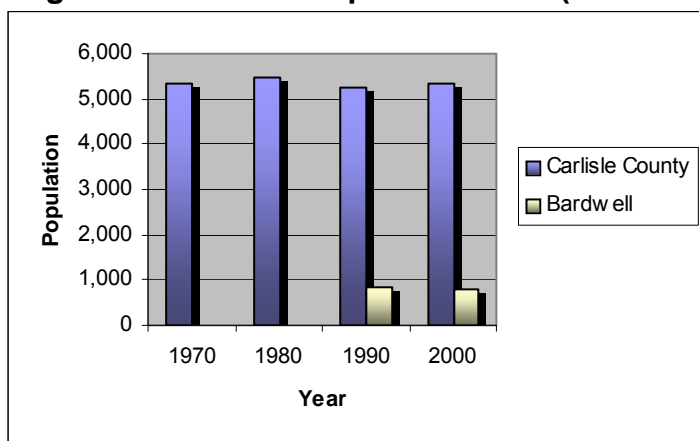
6.0 HUMAN ENVIRONMENT OVERVIEW

An overview was conducted to determine the general characteristics of the human environment in the study area. The analysis addresses: general socioeconomic characteristics, environmental justice, land use, agricultural activity, hazardous materials sites, and historic / archeological resources. Additional environmental justice documentation and environmental overview information can be found in Appendices C and D.

6.1 Socioeconomic Profile

Population Growth – According to the 2000 Census, the population of Carlisle County was 5,351 and the population of the City of Bardwell was 799. The county population increased from 5,238 in 1990 and the city population decreased slightly from 818 in 1990. According to the Kentucky State Data Center, the population of Carlisle County is projected to increase to 5,807 by 2030 (an increase of 0.27% per year). Refer to Figure 14 for the historic population data.

Figure 14: Historic Population Data (1970-2000)



Source: 2000 U.S. Census

Minority Populations – Carlisle County has a minority population of 2.3 percent. The City of Bardwell has a slightly higher percent minority population at 5.4 percent. These minority populations are both less than the statewide average of 10.7 percent.

Low – Income Populations – In 2000, approximately 13.1 percent of the Carlisle County population was below the poverty line. In Bardwell, approximately 24.3 percent was below the poverty line. These numbers exceed the national average of 12.4 percent, but only the Bardwell number exceeds the statewide figure of 15.8 percent.

Age of Population – The City of Bardwell and Carlisle County both have a larger than average percent of residents age 62 and over (26.3 and 21.1 percent respectively) compared to the national and statewide averages (14.7 and 14.9 percent respectively).

Local Economy – In 2001, Carlisle County’s unemployment rate was 6.1 percent. This is higher than the 2001 unemployment rates for Kentucky and the U.S., which were 5.5 and 4.8 percent, respectively. Of those that are employed, the highest percentage (19.2 percent) works in retail trade, followed by services (16.7 percent), and manufacturing (15.4 percent). The remainder of the county workforce is employed in a range of other fields as shown in Table 16 (Appendix A). There is only one major manufacturer in the Bardwell area, RBS China Inc as shown in Table 17 (Appendix A).

Commuting – Approximately 38 percent of employed Carlisle County residents work in the county, with the remaining 62 percent commuting to other counties such as Ballard, Fulton, McCracken, Graves, and Hickman as shown in Table 18 (Appendix A). Most of the employees working in the county also live in the county (82%).

Community Facilities and Development Patterns – Typical community facilities are located within Bardwell, e.g., city hall, police station, churches, etc. (Refer to Figure 15 in Appendix B) Three additional community facilities were identified: the Roselawn Cemetery located west of US 51 near the US 51 / KY 1181 intersection; the Bardwell Cemetery located across US 51 from the Roselawn Cemetery; and the Carlisle County Park located on Morgan Road near US 62. No public schools are located in the study area. Most commercial development is located on US 51 with a concentration in downtown Bardwell. Residential development is also centered on Bardwell (mainly east of US 51). Other than the town of Bardwell, there are no named communities in the area.

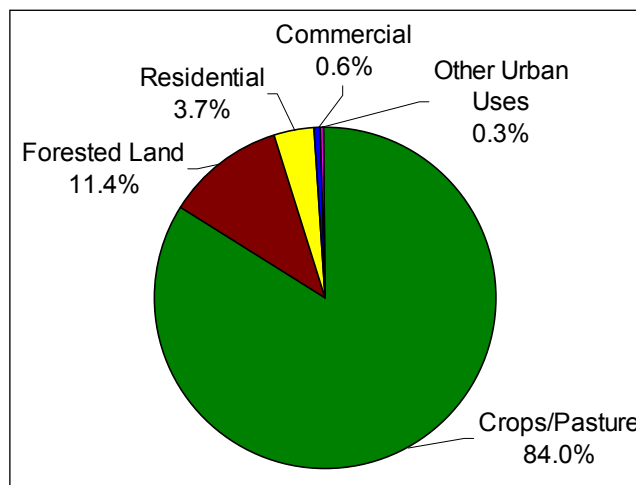
6.2 Environmental Justice

Based on the race and income data available from the U.S. Census Bureau and input from the community of Bardwell, there is no specific, defined Environmental Justice community within the project study area. Refer to the Environmental Justice Review in Appendix C for more details.

6.3 Land Use

Carlisle County currently does not have land use planning ordinances in effect (zoning or subdivision regulations). There are five primary land use types found within the study area as shown in Figure 16. By far, the largest land use category is crops/pasture land (6,359 acres), with forested land next at 864 acres. Figure 15 (Appendix B) shows a map of the land use categories.

Figure 16: Land Use



6.4 Agricultural Activity and Prime and Unique Farmland

As noted above, agriculture is the predominant land use in the study area. In 1998, the county ranked 16th in production of corn for grain, soybeans, and winter wheat. Carlisle County was 3rd in dark-fired tobacco production. The prevalence of agricultural activity may be in part attributable to the availability of fertile soils. Over half (55.8 percent) of the County's 127,354 acres are considered prime and unique farmland. Related to this, there are three agricultural districts in or adjoining the study area: Agricultural District 20-05 (west and north of Bardwell); District 20-04 (south of Bardwell); and a small portion of District 20-03 (northeast of Bardwell). (See Figure 15 in Appendix B)

6.5 Underground Storage Tanks/Hazardous Materials

Potential hazardous materials sites are primarily located in and around the urban limits of Bardwell. An environmental database search for the study area revealed five underground storage tank sites in the study area as shown on Figure 15 in Appendix B. A limited site reconnaissance located one additional site on US 51 in Bardwell. Outside Bardwell, hazardous materials location considerations are primarily related to agricultural activity since large-scale farming operations often store fuel and oil on-site.

6.6 Previously Documented Cultural Historic and Archeological Sites

The cultural historic overview identified 65 cultural historic sites (50 years of age or older) within the study area. Each site is listed in Table 19 (Appendix A) and mapped on Figure 17 (Appendix B). Twelve sites were identified as potentially eligible, including eight along the existing US 51 corridor as shown in Figure 18 (Appendix B). Additional work was conducted on these twelve sites to make recommendations on eligibility. As a result, eight sites (14, 15, 20, 22, 43, 45, 32, and 60) were recommended as eligible for the National Register of Historic Places (NRHP). A review by the State Historic Preservation Office (SHPO) confirmed that the eight sites are eligible for the NRHP.

Discussions were held between KYTC and SHPO regarding the four sites (Sites 1, 16, 31 and 37) not recommended as potentially eligible. After further investigation it was agreed that sites 16 and 31 were not eligible. It was also decided that there is not an eligible historic district in Bardwell. No further specific investigation was conducted for Sites 1 and 37 as they are not expected to be affected by the alternatives under consideration, however SHPO expressed support for their eligibility in the discussions.

The sites deemed eligible for the NRHP are listed in Table 19. They included Sites 14 (3 bay house with a cross gable), 15 (American Bungalow), 20 (office structure), and 22 (Tudor Revival) on US 51 in downtown Bardwell as well as sites 43 (commercial building) and 45 (First National Bank building) on Front Street in downtown Bardwell. The other two sites were site 32 (First United Methodist Church) and site 60 (T-plan house) located south of the town center on US 51. Site 1 (T-plan house) is also located on US 51, while Site 37 is located on Front Street. (Refer to Appendix D for correspondence and to the separate cultural resource report for more details.)

The archeological overview identified two potential archaeological sites in the study area. The sites have not been assessed and additional field evaluations are necessary to determine the status of the sites. Site 15Ce20 is located north of Bardwell and east of US 51. Site 15Ce3 is located east of US 51, near the Bardwell city limit. The potential archeological sites as well as site types and condition are listed in Table 20.

Table 20: Known Archaeological Sites in Bardwell

County	Site No.	Quad	Site Type	Condition	National Register Status	Owner
Carlisle	15Ce3	Arlington	Mound Complex	disturbed, % unknown	unknown	private
Carlisle	15Ce20	Wickliffe	Open Habitation Without Mounds	apparently undisturbed	not assessed	private