



## 2.0 Population, Employment, and Land Use

### 2.1 General

Development of a comprehensive water system master plan begins with an evaluation of the area’s historical population trends and projected growth patterns. To accurately predict future water demands, it is necessary to determine the magnitude, direction, and characteristics of future population growth.

The study years for this project include 2000 (existing), 2010, and 2025. In addition, ultimate build-out was considered in the extension watersheds.

### 2.2 Population

#### 2.2.1 Historical Population

Historical population data for the City of Lawrence (City) was obtained from the U.S. Census Bureau and is summarized in Table I-1.

<b>Table I-1 City of Lawrence Population</b>			
Year	Population <sup>(1)</sup>	Population Growth	
		Incremental Population Increase	Avg. per Year (%)
1960	32,858		
1970	45,698	12,840	3.9
1980	52,738	7,040	1.5
1990	65,608	12,870	2.4
2000	80,098	14,490	2.2

<sup>(1)</sup>U.S. Census Bureau population for the City of Lawrence, Kansas.

#### 2.2.2 Wastewater Service Population

The City’s wastewater service population is limited to the transportation 2025 plan growth boundary developed by the City. Areas outside the 2025 boundary limits are served by individual treatment systems.

Lawrence-Douglas County Metropolitan Planning Office (Lawrence Planning Office) provided the overall population projections and the housing unit counts and population per household data by traffic analysis zone (TAZ) for years 2000, 2010, and 2025 used in this report. Spatial distribution of population by subbasin and section for years 2000, 2010, and 2025 was based on this data. The estimated wastewater service population for existing and future years is presented in Table I-2 and shown graphically on Figure I-2.



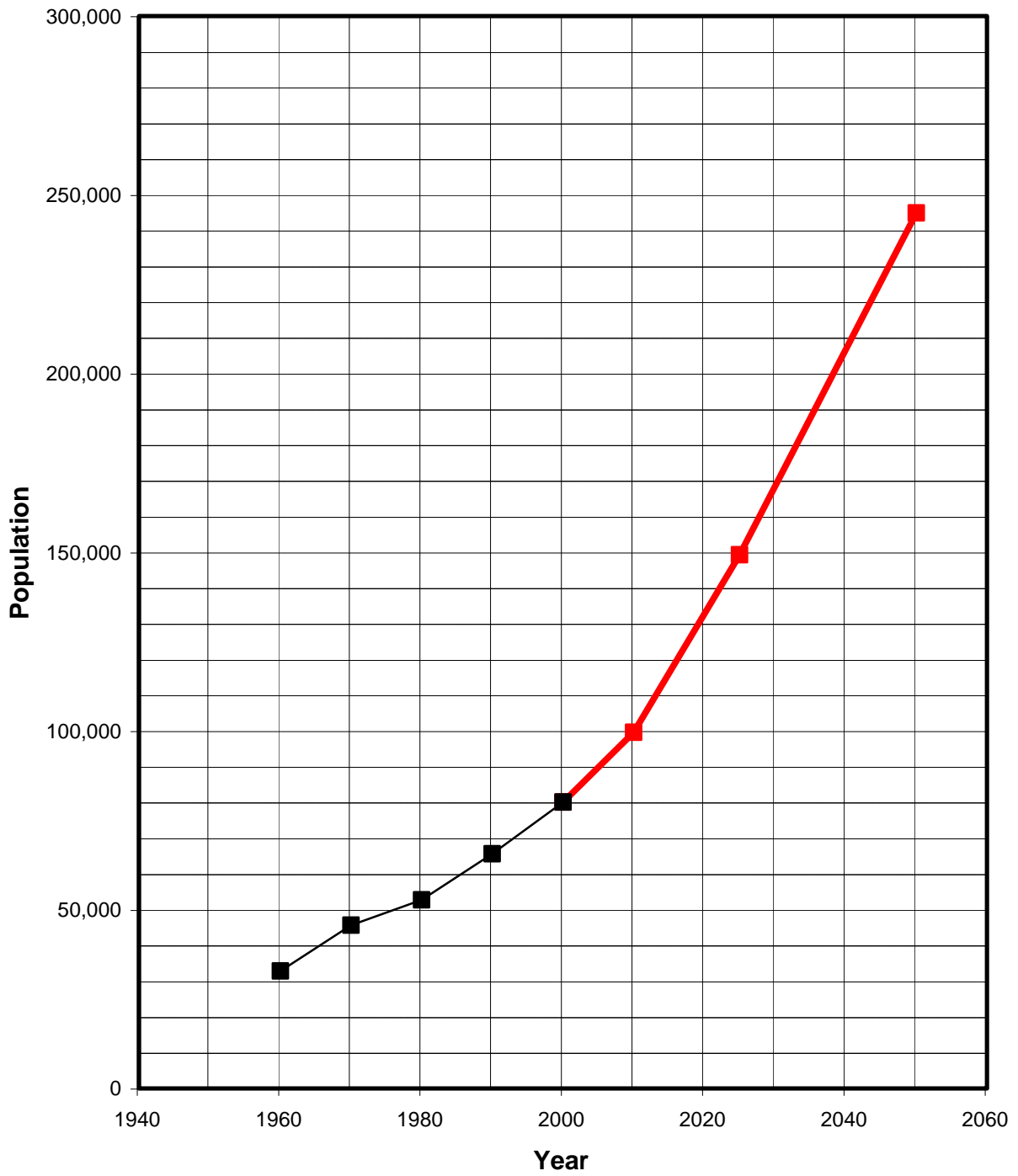
<b>Table I-2 Wastewater Service Population</b>			
Year	Population	Population Growth	
		Incremental Population Increase	(Annual) (%)
2000	79,817		
2010	99,600 <sup>(1)</sup>	19,783	2.2%
2025	149,278 <sup>(2)</sup>	49,678	2.7%
2050	244,906 <sup>(3)</sup>	95,628	2.0%

<sup>(1)</sup> Based on spatial analysis of population by TAZ provided by Lawrence-Douglas County Metropolitan Planning Office within assumed year 2010 wastewater service limits.  
<sup>(2)</sup> Projection by Lawrence-Douglas County Metropolitan Planning Office for UGA.  
<sup>(3)</sup> Projection developed for this report based on 2% per year growth rate.

### 2.2.3 Population Distribution by Wastewater Subbasin

The study area was divided into 39 wastewater subbasins. This is 15 subbasins more than the 1995 City of Lawrence Wastewater Master Plan. The increase is due to new subbasins added for the new growth areas located south of the Wakarusa River and the west side of the City. For year 2000, populations by subbasin were calculated for the additional and existing subbasin boundaries. TAZ information provided by the City was used to determine the population for each subbasin. This was similarly done for planning years 2010 and 2025.

Table I-3 presents a summary of projected population for each wastewater subbasin for years 2000, 2010, and 2025. These population values were used as the basis for determining future wastewater flow projections.



City of Lawrence, Kansas  
Wastewater Master Plan  
2003



## Historical and Future Population



Figure I-2

Legend

- Projected City Population
- Historical City Population