

CITY OF DAYTON
2040 COMPREHENSIVE PLAN
Chapter 10: Water Supply Plan
Summary

Introduction

A Comprehensive Water Supply and Distribution Plan for the City of Dayton has been developed to meet the anticipated near term and ultimate needs of the Dayton municipal water system. The plan identifies the anticipated water facilities and infrastructure proposed to serve Dayton through the ultimate build-out. The plan presents an “ultimate system” and there is flexibility for Dayton Officials and staff to make adjustments in the future that will benefit Dayton as it continues to grow.

Refer to Appendix B for the City of Dayton Local Water Supply Plan submitted to the Department of Natural Resources. This attachment includes details for the Local Water Supply Plan for Dayton, Water Conservation and Reuse, Assessment and Protection of Source Water, and Sub-Regional Collaboration.

Water Demand Projections

Dayton’s population has increased from approximately 2,600 in 1970 to about 6,018 today. Existing water service has been provided to the Historic Village, the Industrial Park in southwest Dayton, and residential areas in northeast Dayton. The remainder of the City obtains water from private wells.

Table 1.1 – Population and Extended Water Demand Projections

Year	Total Population	Population Served	Projected Per Capita Demand (GPCD)	Projected Avg Daily Demand (MGD)	Projected Max Daily Demand (MGD)
2020	5,900	2,817	106	0.299	0.776
2030	7,900	4,817	98	0.472	1.227
2040	10,400	7,317	98	0.717	1.864