

**City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT**

CHAPTER 3 – LAND USE ELEMENT

I. INTRODUCTION

Carnation is located within the pastoral and scenic Snoqualmie River Valley. Established in 1912 as the Town of Tolt, the City historically provided services and housed workers for the surrounding logging and farming enterprises. Today, Carnation primarily provides housing for commuters to the larger employment centers west of the Snoqualmie Valley, and housing has expanded eastward from the original plat in more typical suburban density and style.

The historic downtown commercial area is located along State Route (SR) 203. This downtown core is approximately 4 blocks in size, located along both sides of SR203. A small shopping center built in 1986 anchors the south end of the historic commercial center.

At slightly over one square mile in size, Carnation is compact. Geographic expansion of the City has been limited by its location at the confluence of the Tolt and Snoqualmie Rivers: development to the west and south is limited by these rivers and their associated areas of flood hazard. A steep hillside forms the eastern boundary of the City, and to the north, the floodplain of the Snoqualmie River widens considerably. Circulation within the City is dominated by two north-south facilities. State Route (SR) 203 provides highway access to Carnation from the rest of the Snoqualmie Valley, and the Snoqualmie Valley Trail bisects the City a few blocks to the east of SR203. Once a railway that provided access to Monroe and Everett for farm products, the Trail is now a popular regional recreational facility used by hikers, bicyclists, and equestrians.

A large portion of the Potential Annexation Areas (PAA) is located to the north of the City. The area known as the “Garden Tracts” is located between NE 55th Street and NE 60th Street and between 316th Avenue and the Snoqualmie Valley Trail. The Garden Tracts were platted in the early twentieth century, at the same time as the original plat of Tolt. Although located within unincorporated King County, the land use is single family residential on suburban sized lots. While these homes are on private septic systems, public water service from the City of Carnation has allowed development at non-rural densities. Between the Garden Tracts and the current city boundary there are several large tracts that are currently in agricultural use such as U-Pick berry farms. These tracts are owned by one owner. Other portions of the PAA include a tree farm southwest of the City boundary, and a newly expanded portion of the PAA east of the City boundary along NE 45th Street (Entwistle Street) which is currently in development as a

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

12-unit single family development called Tolt Place.

PURPOSE OF THE LAND USE ELEMENT

The Washington Growth Management Act (RCW 36.70A) requires cities to prepare a Land Use Element designating the proposed general distribution, location and extent of the uses of land within the Urban Growth Area. RCW 36.70A.070(1) specifies the requirements for this element, including projections of population densities, building intensities, and estimates of future population growth, as well as protection of the quality and quantity of ground water used for public water supplies, consideration of urban planning approaches that promote physical activity, and guidance for drainage, flooding, and storm water run-off to prevent degradation of waters of the state.

The City did extensive community outreach for all of the elements of the comprehensive plan including multiple open houses, public hearings, discussions at the committee level, which are open to the public, at Planning and Parks Board meetings, also open to the public, and at various community events. Many of these events had both in-person and virtual options. Additionally, Saturday morning “Coffee with Council” and “Coffee with the City Manager” provided informal opportunities for questions and engagement. Engagement opportunities were offered during the day, evening and on weekends for maximum accessibility.

CONSISTENCY WITH VISION 2050 MULTI-COUNTY PLANNING POLICIES

The City of Carnation Comprehensive Plan Land Use Element is consistent with the Multi-County Planning Policies (MPPs) as described in VISION 2050 in that it promotes a compact urban form with the most intense land uses centered along SR203. The small size of the city (slightly more than 1 square mile) and a system of linked sidewalks and trails allow for a pedestrian-oriented community. Development is focused largely within areas already served or easily served with infrastructure and public services.

In keeping with the policies of VISION 2050, Carnation’s Town Center consists of the commercial core and surrounding mixed use, higher density residential neighborhoods and industrial area. The Town Center is located between Rutherford and Blanche Streets along SR203, and from Stossel Avenue on the east to Stephens Avenue north of Entwistle and Larson Avenue south of Entwistle on the west. This area includes the existing and proposed highest intensity commercial development as well as the important civic centers such as City Hall, the Senior Center, and Tolt Commons Park. The Town Center has an excellent pedestrian scale and orientation and is walking distance to many of the City’s established neighborhoods. While the scale of Carnation

City of Carnation

2024 Comprehensive Plan

LAND USE ELEMENT

is conducive to a pedestrian environment, SR203 (Tolt Avenue) often acts as a barrier for pedestrians; capital improvements within the Town Center that promote pedestrian safety such as traffic calming, and more clearly defined crosswalks will be important to achieve Carnation's goals. Future investments in this area that promote a vibrant local economy are a priority of the City.

II. LAND USE INVENTORY AND DESCRIPTION

The inventory presented in this Element provides information useful to the planning process. The inventory summarizes the general development of the city and describes existing types of land use in the city.

PHYSICAL ENVIRONMENT

The following is summarized from a variety of sources, including the Environmental Assessment (EA) for the Carnation Sewer Collection and Conveyance System and Wastewater Treatment Facility, September 2005. The project area identified in the EA includes the Carnation UGA. The City adopted an Environment Element as part of the 2005 Comprehensive Plan Update. Information on the physical environment from the Element is incorporated into this Land Use Element.

The City of Carnation and its UGA are approximately 800 acres (1.25 square miles) in size and roughly centered on State Route (SR) 203 (Tolt Avenue) and Entwistle Street/NE 45th Street in King County, northeast of the confluence of the Tolt and Snoqualmie Rivers. Approximate boundaries of the UGA are the Snoqualmie River to the west, NE 60th Street to the north, the Tolt River and NE 32nd Street to the south, and 338th Avenue NE to the east.

Climate. Maritime air masses from the Pacific Ocean influence the climate of the Carnation area and result in moderate temperatures. Carnation receives an average of 57 inches of rainfall annually, with ranges from less than 45 inches to more than 90 inches. Precipitation varies seasonally with approximately 75 percent of the annual precipitation falling between October and March.

Soils and topography. Carnation's location within the Snoqualmie River Valley and at the confluence of the Snoqualmie and Tolt Rivers determined the area's predominant flat topography and soil types. The King County Soil Survey (U.S. Soil Conservation Service, 1973) generally classifies soils in the Carnation UGA as part of a group of soils known as the Oridia-Seattle-Woodinville Association (American Engineering, 2000). This soil group occurs in major stream valleys or nearby level areas. Major soil types within this group include Oridia soil, Seattle soil, and Woodinville soil. In general, soils in the

City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

Oridia-Seattle-Woodinville Association are well suited for farming and pasture. However, poor drainage and a seasonal high-water table in some parts of the UGA can result in moderate to severe limitations for urban development and make site preparation more costly.

City-wide studies of geological conditions determined that the geology underlying Carnation is composed mostly of relatively thick accumulations of post-glacial and glacial deposits over Tertiary, sedimentary, and igneous rocks (Kleinfelder, 2003; R.W. Beck and Associates, et al., 1991). Existing data on the City's geology indicate that the surface geology is composed of sand and gravel deposited during migration of rivers and streams. Flooding from the adjacent Tolt and Snoqualmie Rivers have left deposits of finer materials and alluvium on top of the sand and gravel. Surface soils were generally topsoil or forest duff, native silty sands, and gravels or gravel surface course. Subsurface conditions generally consisted of fill and alluvium, which was composed of sands, gravels, and silts with isolated clay lenses.

The elevation of the heart of Carnation is approximately 67 feet above sea level. To the west of the City there are relatively steep slopes, and slopes over 15% (Class II/Moderate Hazard areas) are located outside the city limits to the northeast, adjacent to Tolt Highlands north of Entwistle/Tolt River Road Street. While much of the UGA is characterized by flat topography, there is a substantial hill to the northeast of the City that encroaches into the City limits, primarily affecting some residential areas and some public use.

Low liquefaction potential has been identified within the city limits based on anticipated depth to groundwater and field data collected. In the event of a seismic occurrence, it is anticipated that liquefaction settlement would be present.

Surface water. The major surface water body in the project area is the Snoqualmie River, which generally flows from the southeast to northwest and is located on the western edge of the City. The Snoqualmie River watershed drains more than 700 square miles in King and Snohomish Counties before joining the Skykomish River to form the Snohomish River.

The Tolt River, which drains a 101-square-mile basin, is the largest tributary to the lower Snoqualmie River. The Tolt River enters the Snoqualmie River just south of Carnation at RM 24.9. The land in the upper reaches of the Tolt River watershed is forested.

Anadromous fish use the length of the Snoqualmie River below Snoqualmie Falls and many tributaries including the Tolt River. See below for a discussion of endangered species in the subsection on Wildlife Habitat.

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

Floodplain. The City is located at the confluence of the Tolt and Snoqualmie Rivers, both of which have mapped floodplain areas. Floodplains and other areas subject to flooding, collectively referred to as “frequently flooded areas,” perform important hydrologic functions (WAC 365-190-080(3)). The Federal Emergency Management Agency (FEMA) designates and classifies frequently flooded areas on their Flood Insurance Rate Maps. Below is FEMA’s officially adopted flood map for the Snoqualmie River.

City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

Special Flood Hazard Area (SFHA) Map

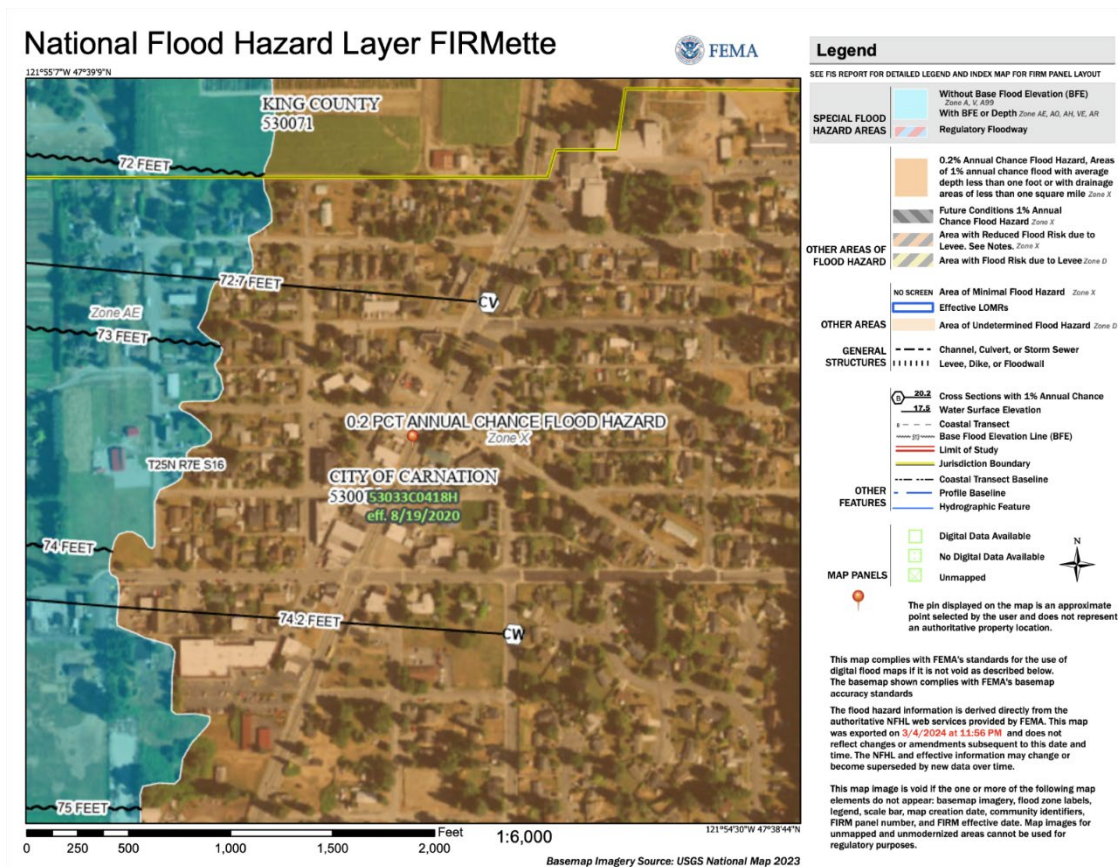


Land in the City of Carnation is within the Federal Emergency Management Agency (FEMA) designated 100- and 500-year floodplains of the Snoqualmie and Tolt Rivers. Special Flood Hazard Area (SFHA) is defined as areas that are subject to inundation by the 1% annual chance flood (generally known as the 100-year flood event). The SFHA within the Carnation UGA are mapped as Zone AE, which are areas within the 100-year floodplain where the Base Flood Elevation has been mapped. Floodway areas are identified within the SFHA as the channel of the stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood waters can be carried without substantial increases in flood heights. Within the Carnation UGA, there are areas within the floodway along the southern City boundary associated with the Tolt River, and along the western boundary associated with the Snoqualmie River.

Portions of the city that are not within the 100-year floodplain are within the 500-year flood zone, which is not considered a Special Flood Hazard Area. In addition to flooding surrounding areas, river channels can move, or migrate, laterally across their

City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

floodplains. Channel migration can occur gradually, as a river erodes one bank and deposits sediment along the other. Channel migration can also occur as an abrupt shift of the channel to a new location, called an avulsion, which may happen during a single flood event. King County provides maps of channel migration zones (CMZs) which provide information on where the river has been and where it may go due to channel migration. Channel migration zones were identified along the Tolt River mainly east of the Carnation UGA. There is a section of CMZ mapped along the Tolt River within the Carnation UGA, although most of the Tolt and Snoqualmie river channels bordering Carnation are fixed.



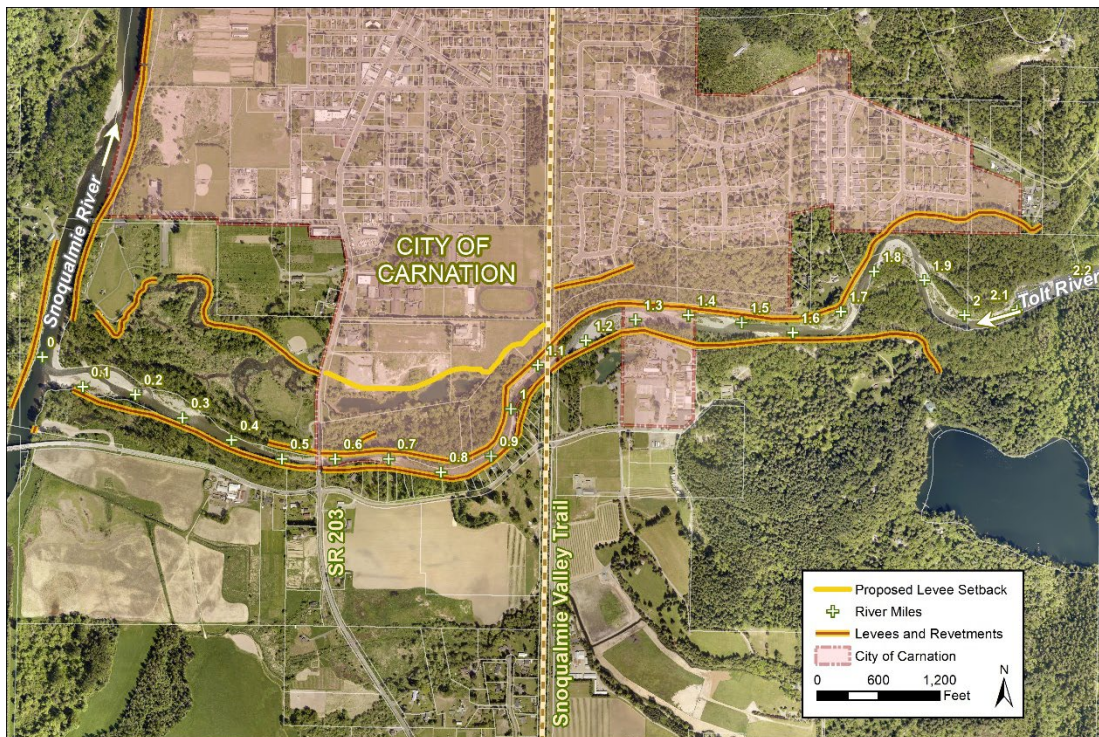
To address flood hazards, revetments and levees have been constructed along both rivers since the 1930's to protect surrounding farm and city lands. In more recent years, King County constructed a setback of the levee at the confluence of the two rivers, just outside of the City's UGA. King County is conducting a study of flood hazard reduction options on the Tolt River from its confluence with the Snoqualmie to about River Mile 6. The Carnation UGA abuts approximately River Mile 0.5 through River Mile 2.

City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

This study is also known as the Lower Frew Levee Setback project. In this project, King County plans to remove the existing Lower Frew Levee and construct a new levee farther away from the river (King County, 2024). Moving this levee further down will reconnect the river to 34 acres of floodplain. This will aid in flood and riverbank erosion reduction, salmon recovery, and improved recreation at Tolt MacDonald Park.

The project has three phases; Collecting data and information, design and permitting, and construction. The project is undergoing the design and permitting phase, between 2025-2026. It is projected to be under construction in 2027. Below is an aerial view of where the new Lower Frew Levee Setback project will take place.

Lower Frew Levee Setback Project Location



Groundwater. The project area is located in the East King County Ground Water Management Area (East King County Ground Water Advisory Committee, 1998a). The UGA and most of the valley surrounding the City of Carnation is designated as a critical aquifer recharge area. The City operates a single drinking-water well inside the city limits (depth of about 110 feet) and a spring source that furnishes approximately 90 percent of the City's drinking water (East King County Ground Water Advisory Committee, 1998b). The City provides water to over 1,000 water customers both inside and outside current city limits.

City of Carnation **2024 Comprehensive Plan** **LAND USE ELEMENT**

The groundwater table is reported to be fairly shallow, generally within 5 to 10 feet below ground surface (Bgs). The King County Soil Survey (U.S. Soil Conservation Service, 1973) indicates that seasonally high-water tables in the floodplain in the Carnation area are approximately 1 to 3 feet Bgs. A geological study was conducted by Kleinfelder, Inc. in December 2003 for the *City of Carnation Sewer Comprehensive Plan*. The study reported that groundwater was encountered at only one test pit location, at 6 feet Bgs. Groundwater was not encountered at other test sites throughout the project area at depths of 7 feet.

Critical areas and wildlife habitat. Landau Associates conducted a study in 2004 to investigate the presence of wetlands, streams, and sensitive areas in the vicinity of the proposed City sewer system alignment, which is generally located throughout the City limits. In general, wetlands have been preliminarily identified along the Tolt River within the mapped floodway but have not been field delineated. Several areas of habitat were observed during the study, including the forested habitat of Loutsis Park and the forested corridor in the King County Snoqualmie Valley Trail Park. Although these areas are partially developed with walkways and are used regularly for recreation, the trees provide habitat for birds. Bird species observed in these parks include dark-eyed junco, rufous-sided towhee, common bushtit, golden-crowned kinglet, stellar jay, and American crow. Pacific tree frog vocalizations were also noted along the Snoqualmie Valley Trail. The Snoqualmie Valley Trail is expected to serve as a migration route for birds, small mammals, and deer traveling to and from the Tolt River and its adjacent riparian habitat.

Here is the list of Endangered Species Act (ESA)-regulated fish and wildlife that **may** be present in the Carnation UGA. The National Oceanic and Atmospheric Administration (NOAA) Fisheries and U.S. Fish and Wildlife Service indicated that the general range of the species listed in Table 3-1 may be present.

Table 3-1. Threatened Species

Common Name	Scientific Name	ESA Status*
Chinook salmon	<i>Onchorhynchus tshawytscha</i>	Threatened
Bald eagle	<i>Haliaeetus leucocephalus</i>	Threatened
Bull trout	<i>Salvelinus confluentus</i>	Threatened

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

Canada lynx	<i>Lynx canadensis</i>	Threatened
Gray wolf	<i>Canis lupus</i>	Threatened
Grizzly bear	<i>Ursus arctos</i>	Threatened
Marbled murrelet	<i>Brachyramphus marmoratus</i>	Threatened
Northern spotted owl	<i>Strix occidentalis caurina</i>	Threatened
Marsh sandwort	<i>Arenaria paludicola</i>	Threatened
Golden paintbrush	<i>Castilleja levisecta</i>	Threatened

***Threatened:** Species are likely to become endangered within the foreseeable future.

Wetlands are areas that are inundated or saturated by surface water or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands include marshy areas along shorelines, inland swamps, and seasonal watercourses. Wetlands are typified by a water table that usually is at or near the surface. Wetlands perform various habitat, erosion control, water quality and flood control functions. The extensive root systems of wetland vegetation stabilize streambanks. Water quality is improved by decreasing the velocity of water flow, resulting in the physical interception and filtering of waterborne sediments, excess nutrients, heavy metals, and other pollutants. Wetlands also provide food and shelter, essential breeding, spawning, nesting and wintering habitats for fish and wildlife, including migratory birds, anadromous fish, and other commercially and recreationally valuable species.

The City has mapped wetlands within City limits as part of the environmental permitting for the sewer system and later with funds from King Conservation District. Maps of wetlands in the UGA indicate small water bodies at the city's north and south ends, primarily within Tolt and Snoqualmie River riparian areas, drainage channels, depressions and low-lying drainage areas. If there is evidence of wetlands on property that is subject to development, a critical areas report is required as part of the permit application.

The City is in the process of updating its critical areas ordinance, with expected adoption in January 2026.

City of Carnation

2024 Comprehensive Plan

LAND USE ELEMENT

Summary. Carnation's physical environment has been determined largely by its location at the confluence of the Snoqualmie and Tolt Rivers. Primarily flat in topography apart from the steep slopes that affect the northeastern area, the southern and western portions of the City contain areas of special flood hazard and some potential wetlands. The central portion of the City is relatively unconstrained by physical limitations. The physical environment limits the potential of the City to expand and therefore creates impetus for a compact and walkable community.

EXISTING LAND USE

The oldest and most intensive development within Carnation is concentrated along SR203 from NE 40th Street to Bagwell Street and between Stewart Avenue and the Snoqualmie Valley Trail. This area is the approximate location of the original early twentieth century plat of the City. Various public uses that serve the community (schools, library, cemetery and fire station) are located both to the south and north. Industrial uses are located south and west of the original plat. To the east are residential developments at lower densities and lands still in rural residential use. Another residential area platted in the early twentieth century is in the northerly portion of the Potential Annexation Area. This area, known as the Garden Tracts, has not developed to the same density as within City limits. Agricultural uses are in the northern part of the UGA as well as in the southwestern portion of the UGA. Parks are located along the southern and western boundaries, including portions of a very large King County Park, and several city-owned parks.

Figures 3-2a and 3-2b show a map of existing land use and existing zoning within the City of Carnation UGA. Existing Land uses were grouped into the following categories:

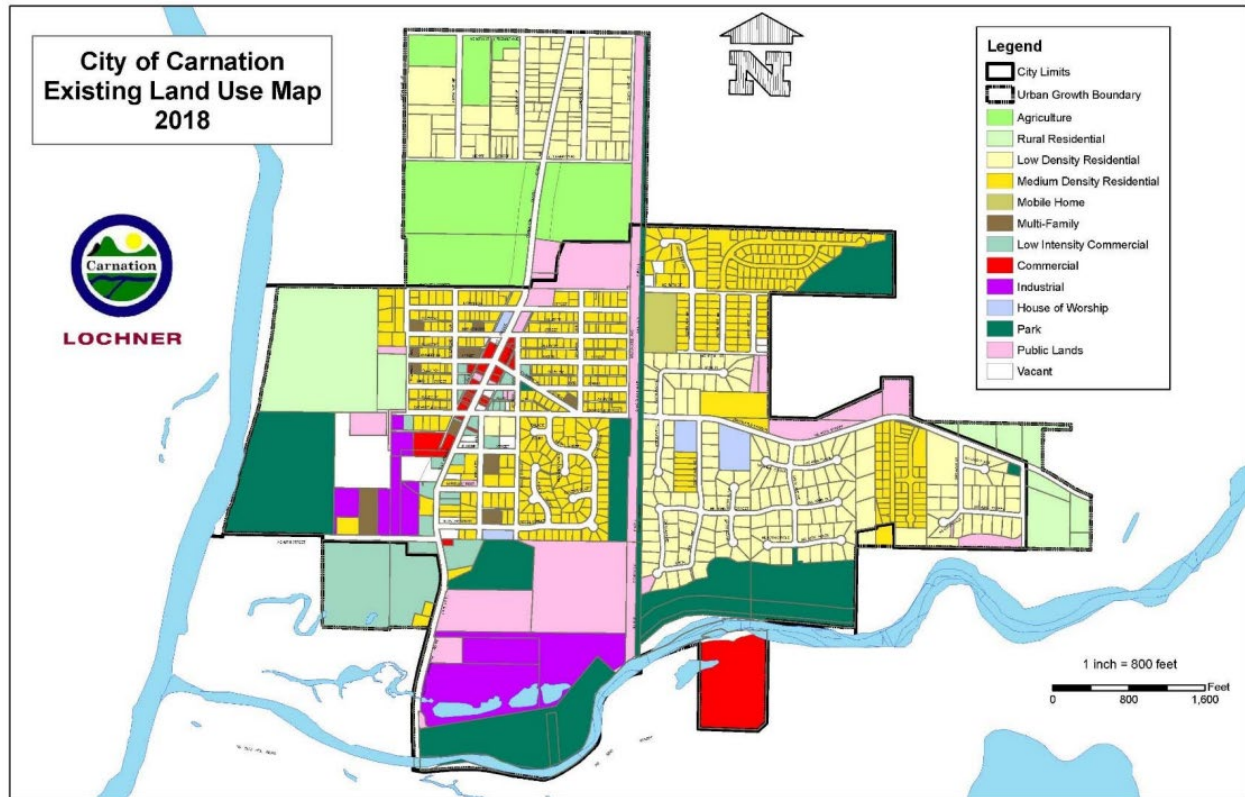
- Agriculture
- Rural residential (generally densities of one unit or less per acre)
- Low density residential (densities of two or three units per acre)
- Medium density (single family residential at approximately 4 units per acre or greater)
- Mobile homes
- Multi-family, which includes apartments and duplexes
- Low intensity commercial, including offices, storage, and horticultural commercial uses
- Commercial
- Industrial
- Churches and houses of worship

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

- Park lands
- Other public lands
- Vacant (generally lands with no buildings or current uses)

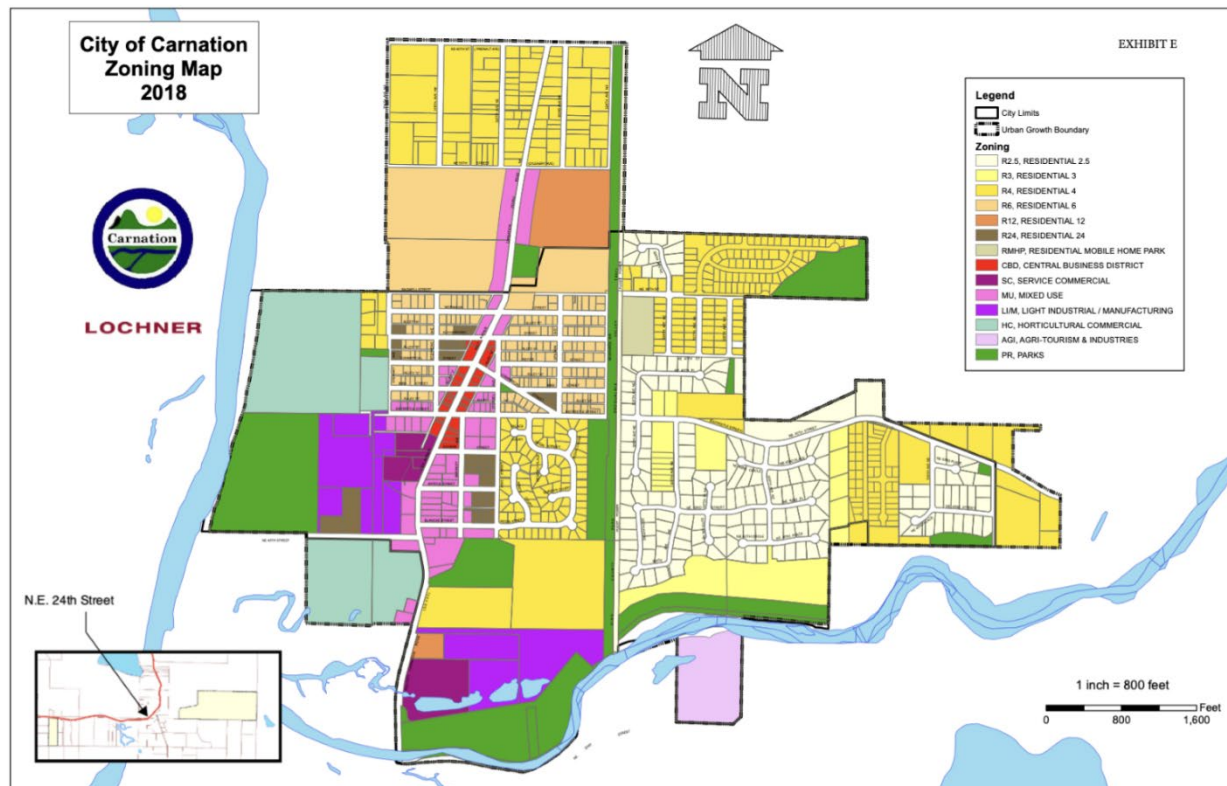
City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

Figure 3-2a: Existing Land Use Map (2018)



City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

Figure 3-2b: Existing Zoning Map (2018)



Residential Land Use. Approximately 61% of the land within the City and its UGA is devoted to residential use. The housing stock within the City and Potential Annexation Area is predominantly single-family with a few duplex and multi-family units and a mobile home park. Multi-family and the mobile home park account for 1% each of the total UGA land area. Current development projects will increase the duplex and townhome housing stock.

Most of the homes built within the original city plat are on small lots of approximately 5,000 (two 25 X 100 sq. ft. lots) to 10,000 square feet (four 25 X 100 sq. ft. lots). The original plat consists of a grid street pattern with lots served by alleys. Two subdivisions were developed in the 1960's and 1970's, one of which is characterized by a grid pattern but without alleys, and the other a more typical pattern characterized by *cul de sacs*. Subdivisions built in the 1990's were typically built on larger lots, as required by Seattle and King County Public Health Department regulations for houses served by septic systems. These subdivisions are also typical of that period, with a street pattern that maximizes *cul de sacs* rather than a grid system. The predominant land use east of the Snoqualmie Valley Trail is single family residential.

City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

The multi-family uses within the city are small apartment buildings and duplexes. These are in small areas within the original plat, on NE 40th Street. A mobile home park is located just east of the Trail along NE 50th Street.

Development from 2000 to 2013 was limited to very few new homes, due to lack of infrastructure until 2008 when the sewer system became operational, and then because of the significant downturn in the economy that left little demand for new housing for several years.

Since 2014, new development has made up about 11% of Carnation's housing stock. From 2019 to 2024, the City has permitted 223 net new units. Current projects in progress include Tolt River Terrace, Tolt Place, and 85 Degrees as well as a few smaller projects. Recently completed is the Sno-Valley Senior Apartments, which added 15 income restricted affordable senior housing units to the housing stock. This new construction will change the statistics on the age and diversity of the housing stock (City of Carnation, Housing Element, 2024).

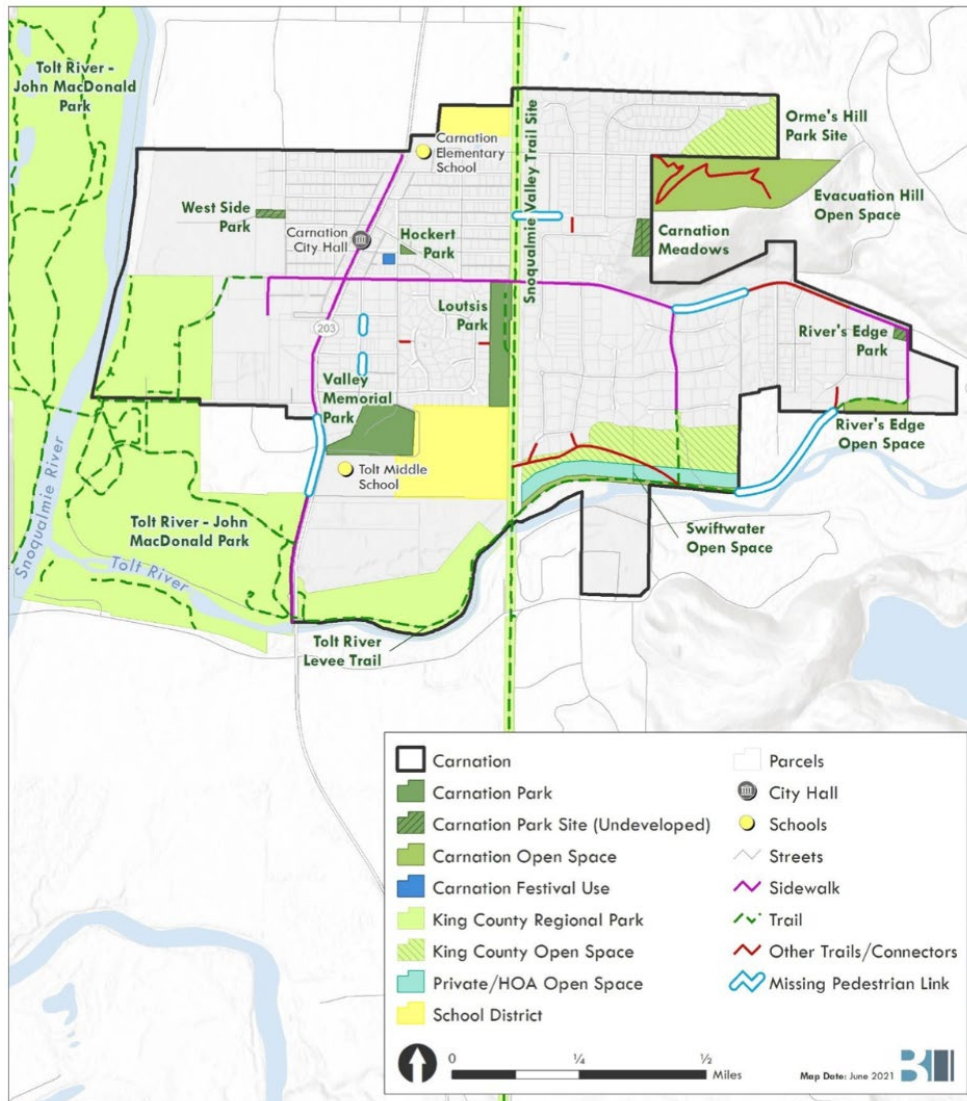
Commercial/Retail Land Use. Approximately nineteen percent (19%) of the total land within the City and its UGA is in commercial use. Low and medium intensity commercial make up 18% of this, with high intensity commercial only contributing 1%. Low intensity uses include offices, storage facilities, and horticultural commercial uses. Most of the city's retail development is located along SR 203 between Rutherford and Eugene Streets, and consists of specialty retail, office uses, restaurants, and a supermarket. Remlinger Farms south of the Tolt River are a mix of Agri-tourism and related industries.

Light Industrial/Manufacturing. There are just over 22 acres (3% of the UGA) in light industrial land use within the current city limits, primarily in the southwest portion of the City. Major industrial activity in the city consists of a landscape, construction and asphalt company.

Parks/Open Space Lands. Park lands account for 11% of the Carnation UGA. City owned parks include Valley Memorial, Nick Loutsis, Fred Hockert, West Side, Tolt Triangle and Rivers Edge Parks. In addition, a small portion of Tolt MacDonald Park, a regional park owned and operated by King County, is within the City limits. There are also areas of open space along the Tolt River south of the Swiftwater subdivision and the evacuation hill site.

City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

City of Carnation Park System



Sources: City of Carnation, 2020; BERK, 2020.

Agricultural Land Use. Existing agricultural lands are located within the Potential Annexation Area, and account for 9% of the UGA total land area. The Growth Management Act calls for urban land use within urban areas; therefore, it is to be expected that these lands will be developed for recreational, agri-tourism and non-agricultural uses once they annex into the City. It should be noted that the surrounding Snoqualmie Valley is an agricultural production area characterized by many small farm operations. The City has significant establishments both within City limits and in the Potential Annexation Area that while commercial in nature, are based on horticulture and agriculture and can be characterized as agri-tourism. Examples include a

City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

Christmas tree farm, berry farms and Remlinger Farms. These uses were counted as “Low Intensity Commercial” for this analysis of existing land use.

Public/Community Facility. There are several public and community land uses in the City of Carnation. These uses comprise about 11% of the total land in the UGA. Public uses owned and operated by the City include City Hall, The Lord House, a historic house, City maintenance shops, the Carnation cemetery, and utilities such as the sewer system vacuum station and water reservoir, as well as storm water facilities. The Riverview School District, which serves the City as well as Duvall and the area of King County between the two cities, owns and operates the Tolt Middle School, the Carnation Elementary School, and Riverview Learning Center. Finally, Eastside Fire and Rescue owns and operates the Carnation Fire Station.

Vacant Lands. Currently approximately 7% of the total UGA is vacant. For the most part, this figure does not include vacant existing buildings or areas that could re-develop either upon annexation or as market forces make such development attractive.

Houses of Worship. There are several churches in Carnation, including several that have relatively large lots. This category of land use accounts for approximately 1% of the UGA.

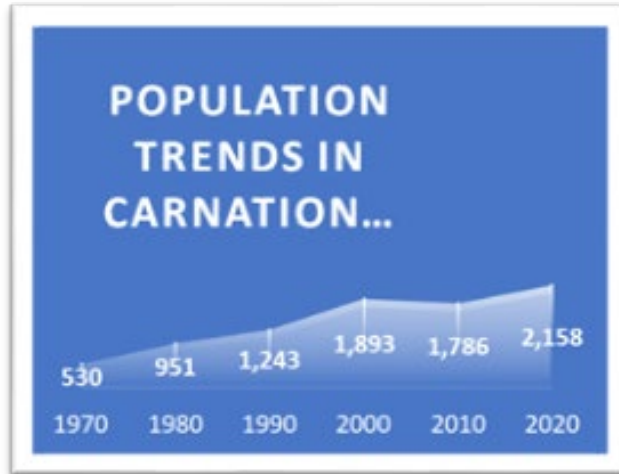
Note that the Land Use Element was developed over the course of 2023-2025, and the uses will continue to evolve over the planning period.

III. FUTURE NEEDS AND ALTERNATIVES

Recent Population Trends and Growth Projections. Population data from the US Census and projections from the State of Washington Office of Financial Management provide data on population trends and projections. The US Census is performed every decade, and data from the 2020 Census has recently become available.

**City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT**

Table 3-3. POPULATION TRENDS - CARNATION AND KING COUNTY



	1970	1980	1990	2000	2010	2020
Carnation	530	951	1,243	1,893	1,786	2,158
King County	1,159,587	1,269,898	1,507,319	1,737,034	1,931,249	2,269,675
Carnation as a % of County	0.05%	0.07%	0.08%	0.10%	0.09%	0.09%

Source: U.S. Bureau of the Census

Carnation's population increased seventy-nine percent (79%) from 1970 to 1980. It grew 31% from 1980 to 1990, and 52.3% from 1990 to 2000. While a new public sewer system was completed in 2008 that would enable increased density of development, a downturn in the economy that began in 2009 decreased the demand for new housing and the projected growth did not occur. The population fell by 5.6% between 2000 and 2010, most likely due to the prevalence of housing foreclosures adding to increased vacancies within the City. From 2010 to 2020, Carnation's population grew by 20.8%. Currently there are approximately 230 housing units in development, which includes single family, townhomes, duplexes and a recently completed affordable senior housing

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

community. As a result of new housing, the population will continue to grow at a moderate pace in Carnation.

The City's capacity for new households, population and employment were projected based on the proposed Future Land Use Map (see Figure 3-5 below). Capacity for new employment is a function of the capacity of the City's Future Land Use Map for those zones that allow for commercial and industrial lands. Capacity for new households is based on land zoned for residential use and includes parcels of land that can be subdivided for new growth and opportunities for infill development in older neighborhoods.

Projections were based on developable lands in each of the zones, with estimates made for lands that may be constrained by critical areas and/or regulatory floodplains. For new development, reduction in developable land was taken into account for infrastructure, such as new roadways, stormwater management, etc. In addition, not all lands will be built to the maximum density or intensity allowed, so a market factor was also applied based on local knowledge and best practices.

The projections of capacity for new households, population and employment were used to determine whether the City would have adequate infrastructure to serve the proposed growth without deterioration of service below adopted levels of service. As such, these projections form the basis for capital improvement plans identified in the Utilities, Transportation and Capital Facilities Elements. The City of Carnation has noted in these elements the need for support from county and state partners for major infrastructure improvements including a round-about at SR203 and NE Tolt Hill Road (just outside of city limits), public transportation expansion with connection to light rail and emergency preparedness and evacuation planning.

Carnation's flexible approach to residential zoning allows multi-family, townhouse, condominium, duplex, cottage housing and single family in several zones. Additionally, permanent supportive housing is allowed in all residential zones. While this flexibility helps provide a range of housing products, it is more difficult to accurately project future households. To be conservative in evaluating infrastructure demand, projections of new households were based on higher densities than may actually be developed. Population growth projected in Carnation for the twenty year horizon is based on several factors, including demand for housing within the greater Seattle region, demand for new housing development in the rural cities to the east of the King County Urban Growth Area, the relative affordability of housing in Carnation, and the City's capacity for new growth. Table 3-4 shows an estimate of population growth that is projected based on the Proposed

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

Future Zoning Map. Per the 2020 US Census, Carnation has on average 2.77 persons per household.

This average will likely change over time as newer developments include multi-family houses and other smaller units. The table below utilizes 2.77 people per single family home and 2 people per household for multi-family and other smaller units.

**City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT**

Table 3-4. Population Growth Potential 2020 – 2044

2020 Population (US Census)	
Carnation City Limits	2,158
PAA	225
Total	2,383
Estimated Population with Present Use & Proposed Future Zoning	
Carnation City Limits	3,012
PAA	485
Total	3,497

*Approximations based on 2024 proposed future zoning map and assuming 2.77 persons per household for single family detached units and 2 persons per household for multi-family and smaller units. **Estimates only.**

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

ECONOMIC OUTLOOK

At its inception, Carnation's economic base was natural resource based, primarily logging and agricultural activities. As the national and regional economies shifted to high tech, retail and service sectors, Carnation's economic outlook also changed. Recent decades saw increased population growth within the rural cities of the Snoqualmie Valley to provide housing for employment centers within commute distance. While Carnation's population grew from approximately 500 to its present size of almost 2,300, Carnation's growth has not kept pace with its Valley neighbors, due to the lack of a public sewer system and less land capacity. Opportunities for local manufacturing and other value-added industries to locate within Carnation have also been limited by the lack of access to interstate highways. As retail and service sectors are in general tied to population growth, Carnation's relatively small population base has resulted in less new commercial development than experienced by its neighboring cities within the Valley. In general, employment opportunities in Carnation are limited, with the School District, Remlinger Farms, a few local light industrial manufacturing establishments and small retail as the primary employers. Adding jobs to Carnation is important to its future growth and sustainability.

The successful installation of a public sanitary sewer system in 2008 has enabled new developments, especially in the last ten years as the economy rebounded. An Economic Development Strategy was first adopted by the City Council in 2007 and expanded upon in 2015 and 2022 to help the City make the most of its potential for economic development. The Strategy emphasizes actions the City and its partners can take to maximize its advantages. For example, there are successful Agri-tourism establishments such as Remlinger Farms and the U-pick berry farms north of the City that draw many visitors to the Carnation area, as well as the regional draw of recreation opportunities afforded by Tolt MacDonald Park and the Snoqualmie Valley Trail. Carnation has also increased its city park amenities including a pump track and improved disc golf course to draw regional visitors. Carnation has also expanded its music offerings, making it a destination for large concerts, festivals and smaller music events. Wayfinding signage, visitor maps, advertising and community-sponsored events that are designed to draw visitors to Carnation's downtown are an important strategy for the City to take advantage of regional tourism.

Similarly, the strategy identifies efforts the City can take to retain existing businesses and attract new enterprises, such as making sure that development regulations do not prevent business expansion or establishment. As of 2023, this strategy has included creating a Community Economic Development (CED) Department. The

City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

Department works in tandem with Public Works, primarily focusing on planning, code enforcement, permitting, and economic development within the City (City of Carnation, 2024). The CED Department's successful launch of a passport processing center in 2024 has brought many new visitors to Carnation and created economic opportunities for area businesses.

The strategy also calls for the City to provide on-going outreach to the business community to see how local businesses can be supported. Recent strategies include an Economic Vitality Grant for businesses within the Central Business District, the award of a State of Washington Tourism grant and collaboration with other Snoqualmie Valley cities for regional tourism. The City is also collaborating with the Carnation Chamber of Commerce and local non-profits on business outreach and events.

By enacting these and other strategies, the City of Carnation hopes to achieve its goals of increasing economic vitality and employment opportunities.

FUTURE LAND USE

Figure 3-5a shows the Future Land Use Map and Figure 3-5b shows the Future Zoning Map for the City of Carnation UGA. The Future Land Use and Zoning Maps reflect Carnation's land use goals for an attractive, human scale, pedestrian oriented Town Center, with retail, community and public services within a half mile of many of the city's residences. Residential development is proposed such that medium and higher density residential areas are located closest to these activities, in keeping with a small-town center. Less dense residential development is not quite as close, but as the entire UGA is approximately 1.3 square miles in size, even the less densely zoned portions east of the Snoqualmie Valley Trail are still within relative proximity.

As required by the GMA, King County conducted a Buildable Lands analysis to determine the capacities of the cities within the County to accommodate projected new growth. The capacity was compared with adopted growth targets that stemmed from Washington State OFM forecasts and Vision 2050's Regional Growth Strategy. The targets for households and employment were adopted as part of the King County Countywide Planning Policies (CPPs). The City of Carnation has a growth target of 350 additional households with an emphasis on 0-30% of area median income (AMI) and 30-50% AMI. These targets are aimed at providing more affordable housing and a diversity of housing types. In order to achieve its affordable housing targets, Carnation needs support from its regional partners for an expansion of public transportation in order to get its residents to employment, medical care and services outside of Snoqualmie Valley, particularly to the

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

light rail station in Redmond.

Since the City's public sewer system became operational in 2008, zoning code amendments have increased allowable densities in several zones; this has promoted walkability as the increased density is within walking distance to the City's center. Residential development must also be balanced with the need for local jobs through zoning of commercial property. In addition to the housing target of 350 additional housing units, Carnation has a jobs target of 450 new employment opportunities within the next 20 years. Meeting the 450 jobs target requires expansion of commercial opportunities within the City. The city recently sold a vacant 7.24 acre parcel zoned light industrial manufacturing (LI/M) to a developer in order to create jobs and economic development for the city. This parcel is located on the southwest side of town, where other light industrial parcels exist. Commercial growth in this area is key to financial sustainability and economic development for the city. Other strategies for jobs growth include outreach and code enforcement to property owners with underutilized, vacant and/or properties in disrepair. The city's Mixed Use zoning also creates opportunities for both residential and commercial development. The success of agri-tourism industries and creative economy, particularly the music industry, in the region also presents viable option for Carnation's job growth.

The primary goal of the increased household capacity within the UGA has been for economic development and fiscal survival. While Carnation's setting in the Snoqualmie Valley certainly provides incentive for visitors, the City's location not being on a major highway such as I-90 or US Route 2 has historically limited light industrial development. With SR203 becoming a bypass from congested local highways, opportunities for retail and commercial expansion may be possible in the future. At the same time, this increase in vehicles traveling on SR203 has created traffic congestion and safety concerns, particularly at the intersection of SR203 and NE Tolt Hill Road.

Recent subdivision activity will help provide new local customers to area businesses. The current residential developments of Tolt River Terrace and 85 Degrees will provide 184 new households within walking distance of the downtown core. Nine of these units are live/work units, creating opportunities for retail and service industry growth. Upzoning in the downtown core will assist the City in meeting its housing target and creating density in the walkable area. Additional residential and commercial capacity is in the Potential Annexation Area (PAA) in several large parcels owned by one family. A substantial portion of three of these parcels are in the 100-year floodplain, which is a planning constraint.

Any proposed expansion of the UGA is limited by Carnation's physical location. With rivers on the southerly and westerly boundaries, a large and steep hill to the east and

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

expanded floodplain to the north, Carnation has very limited opportunity to expand geographically. One area of potential expansion of the UGA is just south of city limits, an area that is not geographically constrained and contiguous with the city. Even with increased density and changes in land use designation from nonresidential to residential uses, the City's population will remain under 5,000 people, the smallest and most compact of the Snoqualmie Valley cities. Growth concentrated within Carnation reduces the pressure for growth within the rural unincorporated areas, in keeping with the Countywide Policies and Vision 2050.

Carnation continues to follow the Countywide Policies and Vision 2050. In 2015 an amendment to the comprehensive plan was made that rezoned a 33.75 acre property to High Density Residential, or R12. R12 zoning requires three different housing types to be incorporated into the development and no one type of home may be more than 60%. Today, this property is better known as the Tolt River Terrace development (Mainvue Homes) of 141 single family, duplex and townhomes.

The proposed future zoning map in figure 3.5b balances the 350 housing target with an emphasis on affordable housing and diversity of housing types, with the 450 jobs target. Upzoning in the downtown core and adjacent to the mobile home park creates capacity to reach the housing target. According to Carnation's Land Capacity Analysis (Exhibit A to the Housing Element), reclassifying R4 and R6 properties in the downtown core to R24 as indicated on the proposed future zoning map provides sufficient capacity to achieve the housing target by income band. The development of a total of 19 live/work units in and near the downtown core and light industrial/manufacturing development on the west side of SR203 will create progress on the jobs target. Reaching the jobs target may require expansion of the UGA.

The PAA north of city limits is zoned for a balance between additional housing units and creating opportunities for jobs growth. The Agri-tourism and Industries (AGI) zone represents a zone that provides for commercial and in some cases light industrial uses that have evolved from agricultural activities typical to the Snoqualmie Valley. This flexible zoning allows for recreation, entertainment, retail, artisan manufacturing, restaurant and lodging among other industries. A large portion of this area is also within the 100 year floodplain.

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

Table 3-6 shows the acreage and percentage of the UGA for the following categories of future land use:

- Low density residential (R2.5)
- Medium density residential (R3, R4 and R6)
- High density residential (RMHP, R12 and R24)
- Low Intensity commercial (Horticultural Commercial)
- Medium intensity commercial (Mixed Use and Agri-tourism and Industries)
- High intensity commercial (CBD and Service Commercial)
- Industrial (Light industrial/manufacturing)
- Public Land

**City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT**

TABLE 3-6: Future Land Use Capacity

Note: The acreage shown in this table does not include the City's watershed, the landfill, the vacant fire district land adjacent to the landfill, street rights-of-way or lands under water.

.5

Zone	Acreage		Total	
	City Limits	UGA		
Agri-tourism & Industries	13.98	40.59	54.57	6.22%
Central Business District	5.93		5.93	0.68%
Horticultural Commercial	38.49	23.10	61.60	7.02%
Light Industrial/Manufacturing	29.97		29.97	3.41%
Mixed Use	19.38	1.01	20.39	2.32%
Multifamily Residential	20.99		20.99	2.39%
Parks	105.16	2.09	107.25	12.22%
Public Use Overlay	68.54	10.74	79.28	9.03%
Residential 12	27.73	18.39	46.12	5.25%
Residential 2.5	188.16		188.16	21.43%
Residential 3	32.14	0.83	32.97	3.76%
Residential 4	112.26	73.28	185.54	21.13%
Residential 6	34.81	0.55	35.36	4.03%
Residential Mobile Home Park	4.94		4.94	0.56%
Service Commercial	4.89		4.89	0.56%
Grand Total	707.36	170.58	877.94	100.00 %

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

Residential. Residential land uses are and will remain the predominant land use in terms of area, comprising approximately 59% of the UGA. This does not include the Mixed-Use zone, which also allows residential uses. Low-density residential uses consist of the existing lower-density neighborhoods created in the 1990's when the requirements for septic system drain fields resulted in larger lots. These neighborhoods are almost completely built out, with very little capacity for more lots. The medium density single family zones encompass the most land area. These include both existing neighborhoods with relatively little new capacity, as well as existing neighborhoods where infill development has the potential to provide significant new development. High density residential land uses include a zone that would provide for high-density single-family development such as cottage housing at approximately 12 units per acre, and a zone that provides for multi- family developments (apartments/condominiums) but would also allow cottage or townhouse higher density single family residential development. In general, higher density zones are within a half mile of downtown and service areas, and less dense residential zones are further away, mainly to the east.

Medium Intensity Commercial. This would include both the Mixed Use and the Agri-tourism and Industries zones. The Mixed-Use zones allow residential and commercial uses, including office and retail. The mixed-use zone creates a buffer between commercial and residential areas. South of Eugene and east of SR203, the Mixed-Use parcels have enough depth from SR203 to provide adequate parking if these areas develop for retail use. The Agri-tourism and Industries zone would allow for a range of activities related to Agri-tourism and supporting industries, including both the retail and tourist activities themselves and the industries that would support them, such as restaurants, processing, wholesaling, etc. The Medium Intensity Commercial designation accounts for approximately 9% of the UGA.

Low Intensity Commercial. This land use is represented by the Horticultural Commercial Zone, a unique zone reflecting the economic potential of the agricultural heritage of Carnation in modern day Agri-tourism. Approximately 7% of the UGA is zoned for this use.

Retail. Retail development is centered on SR203, centered on slightly less than 5 acres zoned Service Commercial located opposite Eugene Street, and including the Tolt Town Center and several properties abutting to the south. This area of Service Commercial allows for expansion of service oriented larger scale retail, including but not limited to a grocery store, Starbucks or similar, restaurant, etc. These uses are generally considered “anchors” for commercial development. The size and depth of the parcels allow for adequate parking, which is essential to the success of this type of

City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

retail.

The historic Central Business District (CBD) encompasses four blocks to the north of the anchor. This area is characterized by shallow (100' from SR203) parcels that are quite limited for parking. Many of the existing buildings are historic, and are well suited to restaurants, shops, and other retail uses. The High Intensity Commercial designation, including both the CBD and Service Commercial zones, accounts for approximately 1% of the UGA.

Industrial. Without direct access to I-90, Carnation's potential for larger scale industrial development has been limited, although there has been a recent increased interest in light industrial/manufacturing space due to demand and lack of available land in nearby cities. Industrial lands are especially important in providing employment and help create a more sustainable local economy; therefore, attracting and expanding light industrial will continue to be a priority for the City. Activating underutilized light industrial zoned property is also a priority. Approximately 3% of the UGA is currently zoned for industrial use.

Public Land. Future needs for public use will be determined by the need for more infrastructure. Public and semi-public institutional uses are allowed in nearly all of the city's zoning districts on lands that are designated by the public use overlay district. While the City has substantial parklands within the UGA, future parks may be needed when new lands are annexed, in order to serve neighborhoods that will develop in the future. Approximately 21% of the UGA is comprised of land with a public use overlay or a park. The 2022 PROS Plan has more details on the need for future parklands and is incorporated by reference here.

Note: Above percentages are based on percentage of total acres in the UGA.

HOUSING AND EMPLOYMENT TARGETS

The King County Countywide Planning Policies (CPPs) as amended July 1, 2025 provide growth targets for housing and employment for all of the cities within King County through 2044. The target for the City of Carnation is to add 350 new households, with an emphasis on affordable housing and diversity of housing types and 450 new jobs by 2044.

Federal, state, regional and non-profit partnerships will be needed for the development of affordable housing. In addition to the building of the units, it is essential to provide a robust public transportation system, medical care and support services. Wrap around services in the community is particularly vital to the development of supportive and emergency housing. The City of Carnation continues to advocate for these services. Additional information can be found in the Housing Element.

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

The City also continues to work with regional and state partners on critical safety improvements including a round-about at SR203 and NE Tolt Hill Road and emergency preparedness and evacuation planning.

PROCESS FOR SITING ESSENTIAL PUBLIC FACILITIES

The City will adopt, through its land use development regulations, a process for identifying and siting essential public facilities as required by RCW 36.70A.200. The City's regulations shall ensure that the siting of essential public facilities will not be precluded in violation of applicable state law. The City's process for identifying essential public facilities shall consider whether and to what extent the facility in question: (i) provides, or is necessary to provide, a public service, and (ii) is objectively difficult to site. The City's process for review and siting essential public facilities shall utilize a permit procedure or similar approval mechanism that enables the relevant City decision-maker(s) to thoroughly evaluate and reasonably mitigate the community and environmental impacts of such facilities. However, such procedure shall be formatted to ensure that essential public facilities will not be unlawfully precluded and shall further ensure that applications for state or regionally sponsored essential public facilities may not be denied. The review and evaluation process for essential public facilities shall include meaningful public notice and opportunity for public comment.

The City will use its website, social media such as Facebook® as well as timely press releases, public notices, and public meetings as feasible to notify residents of a proposal and to solicit input. The city will also notify adjacent jurisdictions which may be affected and invite their comment on the proposal.

GROUNDWATER PROTECTION AND STORMWATER MANAGEMENT

Carnation and the surrounding area are in a Critical Aquifer Recharge Area (CARA), so groundwater protection is of first importance. The City has adopted the 2005 Department of Ecology Manual for Stormwater Management in Western Washington and its amendments. The manual continues to include low impact development related techniques for stormwater management and other revisions.

All new development is required to treat and infiltrate stormwater on-site. As parts have poorly drained soil and may also experience seasonal high-water table, stormwater management is a very costly part of development, and in some cases has the potential to preclude development. This is especially a concern in the downtown, where soil with poor drainage and limited area have required recent developments to provide costly retention vaults.

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

Stormwater from impervious surfaces must be infiltrated on-site as mentioned, which can sometimes be difficult to achieve given localized areas of poorly drained soils and/or seasonal high-water tables. Local drainage facilities that collect and convey surface water runoff consist of open channels and roadside ditches, bioswales, wetlands, infiltration systems and detention ponds. The Snoqualmie and Tolt rivers ultimately serve as receiving waters.

SHORELINE MASTER PLAN

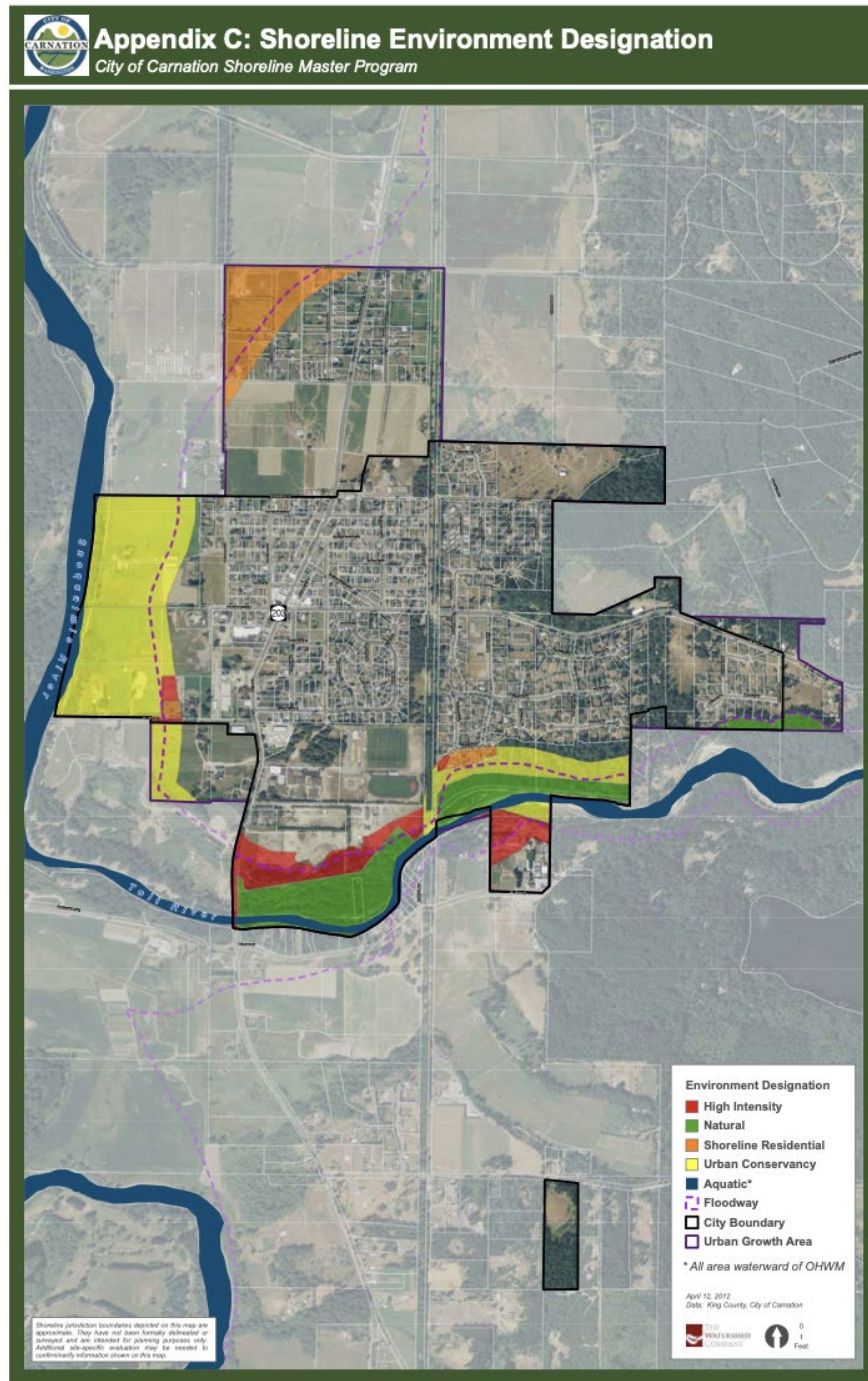
In 2019, the City updated its Shoreline Master Program (SMP) in accordance with WAC 173-26 and with a grant from the Department of Ecology. A map of shoreline jurisdiction is shown in Figure 3-7.

The City's Shoreline Master Program codified at Chapter 14.06 CMC addresses floodplain lands along the Snoqualmie and Tolt Rivers and protects those shorelines and floodplains from inappropriate development. Pursuant to RCW 36.70A.480, the Goals and Policies set forth in Sections I through IV of the City's Shoreline Master Program, including any future amendments thereto, are hereby adopted and incorporated by reference into the Carnation Comprehensive Plan as if set forth in full.

An update to the City's Shoreline Master Program is due in 2027.

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

Figure 3-7. Shoreline Environmental Designation



City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

The National Flood Insurance Program (NFIP). As described above, Carnation has areas of special flood hazard as designated by the Flood Insurance Rate Maps (FIRMs) for both the Tolt and Snoqualmie Rivers. The City participates in the National Flood Insurance Program (NFIP) and therefore must meet NFIP criteria for regulating development within these areas. The City's floodplain regulations are found in Chapter 15.64 CMC Part I Floodways and Floodplain. Development within the floodway portions of the special flood hazard areas is restricted. New construction or substantial improvements of structures within the special flood hazard areas (typically called as the "100-year floodplain") have specific standards to ensure that they are not subject to damage from flooding, such as elevating the lowest floor above the base flood elevation (BFE). No filling, grading, dredging or other actions that would increase flood damage for other properties within the flood hazard area are allowed under the City's regulations. NFIP participation allows Carnation residents located within areas of special flood hazard to purchase floodplain insurance subsidized by the federal government.

In 2008, the National Marine Fisheries Service (NMFS) issued a Biological Opinion (BiOp) that implementation of the NFIP in the Puget Sound area adversely affects endangered salmon species. As a result of the BiOp, local jurisdictions must meet the requirements of the Endangered Species Act (ESA) as well as the existing NFIP regulations for any development in the floodplain or floodway. There are 3 ways that local jurisdictions can meet all their requirements under both NFIP and ESA:

1. Adopt a Model Ordinance developed by FEMA that meets or exceeds all of the requirements of both the NFIP and the ESA;
2. Show how existing local regulations provide the minimum protections of both federal regulations (local regulations may require amendments to meet these minimum protections); or
3. Enforce the requirements on a permit-by-permit basis, which will generally entail that applicants for a floodplain development permit evaluate the habitat of the project area and may in some cases require that they submit the permit for review to the National Marine Fisheries Service.

Summary of the Biological Opinion (BiOp). According to the BiOp, the areas of special flood hazard, called the *Regulatory Floodplain*, consist of the following:

- *Special Flood Hazard Area (SFHA)* – the land subject to inundation by the base flood, which is the flood that has a 1% chance of being equaled or exceeded in any given year (commonly referred to as the "100-year floodplain")
- *Riparian Buffer Zone* (called the *Protected Area* by FEMA) – lands that are

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

within the furthest reach from Ordinary High-Water Mark (OHWM) of the river for any of these 3 areas:

1. Floodway – the channel of a watercourse and the adjacent land area that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a minimum of 1 foot at any point.
2. Riparian habitat zone – the water body and adjacent land areas that are likely to support aquatic and riparian habitat. For Type S streams (shorelines of the state) this is 250' from OHWM. A smaller riparian habitat zone may be established based on Best Available Science.
3. Channel migration zone – the area within the lateral extent of the likely stream channel movement due to stream bank destabilization and erosion, rapid stream incision, aggradation, avulsions and shifts in location of stream channels, plus 50'.

The BiOp sets forth “Minimum Criteria for Development” within the Regulatory Floodplain. Development is restricted within the Riparian Buffer Zone (or “Protected Area”). This area is a “no disturbance zone” other than for activities that will not adversely affect habitat function. For many if not all of the floodway areas within Carnation, existing regulations such as the Critical Areas regulations (Chapter 15.88 CMC) already prohibit development.

Prior to the issuance of the BiOp, the City’s regulations allowed development within the 100-year floodplain outside the floodway or identified critical areas, if the development met the standards for flood hazard reduction. The BiOp allows some development within the 100-year floodplain, but any development must protect fish habitat and flood storage as well as meeting requirements that reduce flood hazard to buildings. Local jurisdictions have the option to prohibit development within this area, or if development is allowed, it is subject to the following restrictions:

- Zoning is to be low density (5 acre lots or greater).
- New impervious surface shall be no more than 10% of the surface area of the lot in floodplain unless mitigation is provided.
- Removal of native vegetation must leave 65% of the surface area of the lot in floodplain in an undeveloped state.
- If a lot is partially within the floodplain, structures must be located on the portion of the lot located outside the floodplain. If the lot is fully in floodplain, structures must be located as far from the river as possible, on the highest land and oriented parallel to flow rather than perpendicular.

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

- All structures must be setback at least 15' from the RBZ and as close to the 100-year floodplain boundary as possible.
- Cluster development, density transfer, and other techniques to reduce development within the regulatory floodplain are to be employed wherever possible
- Expansion of existing buildings is limited to no more than 10% of the existing footprint unless mitigation of any adverse effects to floodplain habitat is provided.

City of Carnation response to the BiOp. In order to assist jurisdictions in evaluating the habitat value of areas within the regulatory floodplain, the Federal Emergency Management Agency (FEMA) has developed a guidance document on how to prepare a Habitat Assessment. The City will require any development in the regulatory floodplain to comply with all FEMA requirements.

URBAN FORM AND PROMOTING PHYSICAL ACTIVITY

Carnation's urban form and small size promote non-motorized access within the City. The UGA is approximately 1.3 square miles in size. Carnation's Town Center includes retail uses in the Central Business District along the spine of SR203, and anchored by Service Commercial retail zoning where the grocery store is located. The Town Center includes the City's most dense residential areas, which are within ½ mile of SR203. Many City residents are within walking or bicycling distance of the grocery store and other shops and restaurants, schools, the library, City Hall and the Senior Center. While many goods and services are within walking distance for many residents, options for non-motorized trips to work are somewhat limited by Carnation's small industrial base and distance from employment opportunities. Many residents commute to employment centers in Seattle and East King County. Working with regional partners to provide public transportation to a major transit center is a priority for the City.

While much of the City is walkable and conducive to physical activity including sidewalks on most arterials and collectors, not all neighborhoods have pedestrian facilities that link to the downtown. For example, Entwistle Street, the major east-west arterial, has a sidewalk gap between 329th Ave and 333rd Avenue. The construction of sidewalk, curb and gutter in this gap is in the Six-Year Transportation Improvement Plan (STIP).

Carnation's oldest neighborhoods do not tend to have curbs, gutters and sidewalks within their rights-of-way. As these are established neighborhoods, requiring in-fill

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

development to provide frontage improvements may not create a cohesive system of sidewalk improvements. In addition, there is some concern that grade separated sidewalks would not be in keeping with the “small town” feel of these areas. The City has developed a street standard for the old part of town that includes non-grade separated pathways or trails. The historic nature of these neighborhoods with gravel parking strips will be retained, unless improvements in drainage or safety are needed. Where infrastructure, accessibility and/or safety improvements are needed, a complete street of sidewalk, curb and gutter will be installed along with the necessary infrastructure.

SR203 can be a major barrier to pedestrian access between residential neighborhoods and the Town Center. The City has one traffic signal at the Entwistle and SR203 intersection. In addition, there is a crosswalk at SR203 and Morrison Avenue that was developed as part of a Safe Routes to School grant and three flashing beacon crosswalks at intervals along Tolt Avenue (SR203). The city completed a Rural Corridors Study for Tolt Avenue that is specifically designed to enhance pedestrian and bicycle safety. The Tolt Avenue Action Plan included corridor improvements for pedestrian access, especially across SR203, as well as facilities for bicyclists, provisions for signage, street furniture, lighting, storm drainage, etc.

Recreation based physical activity is well provided for in Carnation by park and trail facilities owned by the City and by others. The King County-owned Snoqualmie Valley Trail bisects the UGA, and links Carnation to the rest of the Snoqualmie Valley. Access to the Trail for Carnation’s residents is excellent - all of Carnation’s neighborhoods are within one-half mile of the trail, and many are closer still. This trail is well used by pedestrians, bicyclists and equestrians, both residents and visitors to the City. King County-owned Tolt MacDonald Park provides scenic trails well used by hikers, mountain bikers, ballfields and play structures. Other parks and facilities in or near the City provide play structures for young children, as well as a skate bowl, an earthen BMX track, disc golf course, tennis/pickleball courts and the most recent park amenity, an asphalt pump track. Carnation’s future goal is to have City owned park land within a 10-minute walk of all residents and to balance active and passive recreation facilities to meet community needs. In 2022, after Carnation asked for residents' feedback, they proposed four priority parks improvements. These are included in Carnation’s Six Year Capital Improvement Program. The four parks identified as priorities include Rivers Edge, Valley Memorial, Tolt Commons Plaza, and improvements to Evacuation Hill. Refer to the 2022 PROS plan for more details on improvements.

City of Carnation

2024 Comprehensive Plan

LAND USE ELEMENT

SUSTAINABILITY

Sustainable land use relates to how a community can “meet the needs of a growing population while considering the needs of residents,” (Puget Sound Regional Council Multi- County Planning Policies). Sustainable development minimizes its impact on the natural environment while also minimizing use of resources through efficient use of water, energy, etc. The City is taking steps to increase its sustainability through the adoption of climate friendly green policies. Current strategies include a feasibility study on solar use at City facilities, increasing recycling and compost options throughout Carnation, the development of a tree ordinance, annual celebration of Arbor Day with tree giveaways, enhanced landscape and tree screening code, the installation of a climate friendly urban pocket park and other green principles. Additionally, the City is the recipient of a PSE Up & Go grant to install EV charging stations at Tolt Commons. The City is also starting a Climate Resilience Comprehensive Plan Element in 2025, with a completion due date of 2029. The dialogue on how Carnation can respond to the needs for a more sustainable future is reflected in Goal LU6 and its fourteen policies to promote sustainable land use development.

Carnation’s local policies reflect the regional climate goals of achieving greenhouse gas reductions through coordinated strategies in land use, transportation, and energy systems. The regional goals emphasize concentrating growth in transit-oriented centers, reducing vehicle miles traveled, expanding renewable energy, and electrifying transportation and buildings. It also prioritizes climate resilience by preparing for hazards such as flooding, heat, and wildfire smoke, protecting vulnerable populations, and restoring natural systems, all while promoting equity and regional collaboration.

Minimizing impacts on the natural environment. Carnation is a small city located within an area designated as rural under the GMA. Geographically the City is a very small proportion of the Snoqualmie Watershed, which is primarily rural and is forested or in agricultural use. It is also a small proportion of the Tolt Watershed which is forested and mostly undeveloped. Nonetheless, the City’s location at the confluence of these river systems requires that land use policies and development regulations provide protection of water resources and habitat for endangered species. The current and proposed future pattern of development locates higher density land uses upland from the shorelines of the two rivers, but some areas of existing and permitted development are located within close proximity to the shorelines. Through its regulations of stormwater, critical areas, management of shoreline resources and the requirements to comply with the Endangered Species Act in areas of special flood hazard, the City is

City of Carnation 2024 Comprehensive Plan LAND USE ELEMENT

committed to providing protection of environmental resources as it develops in the future. As better science and more knowledge of effective techniques become available, the City will amend its regulations as necessary to maximize environmental protection.

Promoting development that minimizes use of scarce resources. As discussed above, Carnation’s urban form promotes sustainable development by encouraging compact development within a Town Center that includes retail, industrial, mixed use and higher density residential development. This land use pattern encourages non-motorized trips, thereby reducing greenhouse gas emissions from vehicles. The City is committed to increasing the availability of local goods and services as well as creating local employment through economic development. However, as the majority of the city’s workers are commuting outside the City and often outside the Valley, the expansion of transit service would go far in reducing vehicle miles traveled by City residents.

As reflected in Policies under Goal LU6, the City can encourage new developments to utilize some of the programs that encourage building practices to minimize impacts to the environment and resource use, such as the Leadership in Energy & Environmental Design (LEED) and Built Green certification of new construction, and the use of Low Impact Development (LID) techniques to reduce storm water impacts. While the City cannot require that new development use these techniques and programs, the City can evaluate its land use codes and permitting processes to make sure they are encouraging the use of sustainable building practices. For example, all recent residential developments within the city are required to use low-impact techniques for stormwater management. Additionally, the City’s update to its design standards incorporates green building elements.

Finally, Carnation is located within a food production area that is of growing importance to the region. Land use codes that allow for food production in residential areas as accessory uses can be evaluated, keeping in mind that protection from potential nuisance odors and noise will be important as well. Finally, the City is home to community supported agriculture (CSA) programs and a very popular Farmer’s Market where nearby farms can sell their produce to city residents and visitors alike, and many of the local retail establishments make a point of selling locally produced goods.

IV. GOALS AND POLICIES

This section discusses Carnation’s land use goals and policies. An analysis of existing conditions and projected needs in the previous section highlights the areas of concern

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

and opportunities for Carnation. The community's needs and desires combined with the inventory and analysis contained in this Element were used to create a strategy to achieve the city's goals considering the existing conditions in the city. The following goals and policies provide guidelines and positive actions.

GOAL LU1

To create a balanced community by providing for responsible growth that enhances the small town feel of the community and values and protects property owners' rights.

Policy LU1.1 In its long-range land use management, the City will guide future growth in order to achieve the goals of the Comprehensive Plan.

Policy LU1.2 The City will enact development regulations that mitigate adverse impacts on the community.

Policy LU1.3 The City may select inter-jurisdictional programs which are consistent with the Comprehensive Plan to address problems or issues that affect the City and larger geographic areas.

Policy LU1.4 The City will adopt zoning designations and an official Zoning Map to establish the distribution, extent, and location of land uses.

Policy LU1.5 The City will strive to assure that basic community values and aspirations are reflected in the City's land use decisions, while recognizing the rights of individuals to use and develop private property in a manner consistent with City regulations.

GOAL LU2

To enhance existing neighborhoods and encourage the development of new residential neighborhoods consistent with the values and goals contained in this plan.

Policy LU2.1 Encourage new development that provides a variety of housing densities, types, sizes, costs, and locations to meet future demand for a full range of housing options, including workforce housing and affordable housing.

Policy LU2.2 Where appropriate, require new residential development to connect with

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

adjacent existing neighborhoods using streets, sidewalks, trails, or alleys.

Policy LU2.3 Coordinate new residential development with the provision of an adequate level of services and facilities, such as schools, water, streets and parks, as established in the Capital Facilities Element.

Policy LU2.4 Protect existing and proposed residential areas from intrusion of incompatible land uses.

GOAL LU3

To promote an active, diverse, integrated, pedestrian oriented town center including the central business district and mixed-use zone along the SR203 corridor that provides goods and services attractive to residents and visitors alike.

Policy LU3.1 Land use regulations and decisions should support the business community's ability to provide the types of economic activities which best meet the needs and desires of the community.

Policy LU3.2 Promote the establishment of diverse and compatible mixed uses, i.e. retail, office, and multi-family and high-density single family residential development, within and around a walkable downtown area, as part of Carnation's Town Center.

Policy LU3.3 Encourage shared parking opportunities to increase available parking spaces to serve downtown activities.

Policy LU3.4 Encourage activities on the part of the business community and provide infrastructure that supports an appealing downtown corridor that expresses Carnation's unique sense of place. To the extent possible, public infrastructure should support attractive gathering places within the downtown area.

Policy LU3.5 Ensure the safety and free flow of pedestrian movement by providing non-motorized pathways throughout the City that connect neighborhoods to the downtown area.

Policy LU3.6 Encourage appropriate levels of landscaping for all development in the service commercial, central business district and mixed-use zones to buffer parking areas from the street, buffer incompatible uses and/or to provide shade and shelter along the street for pedestrians.

Policy LU3.7 Establish development regulations that, to the extent possible, encourage

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

an attractive mix of commercial uses within the downtown and provide for residential uses within walking distance.

Policy LU3.8 Promote compatibility of future development with adjacent land uses.

GOAL LU4

To enhance and maintain the City by guiding land uses, development, services and facilities consistent with this plan and to promote orderly and efficient land use.

Policy LU4.1 Ensure that new developments do not outpace the City's ability to provide and maintain adequate public facilities, transportation and services by allowing new developments to occur only when and where adequate facilities exist or will be provided.

Policy LU4.2 The City shall evaluate proposed development plans to determine whether existing public facilities have capacity to serve the development, or whether the developer will need to provide additional public facilities.

Policy LU4.3 Ensure buffering between uses whenever new commercial or industrial uses abut residential neighborhoods.

Policy LU4.4 Coordinate future land uses with the other elements of the Comprehensive Plan.

Policy LU4.5 Encourage growth through infill and subdivision in accordance with urban services.

Policy LU4.6 Use population projections based on land use to plan for adequate public services and infrastructure to serve the city in the future.

Policy LU4.7 The City shall take reasonable measures to ensure that new development within the PAA is consistent with the zoning and other development standards of the City. Measures to ensure consistency may include, but are not limited to:

- A. Conditioning water and/or sewer service on development compliance with City development standards as determined by the City;
- B. Joint land use planning with King County within the PAA;
- C. Coordinated permit review with King County for development within the PAA;
- D. Requests to modify PAA boundaries as necessary to achieve goals and create consistency with Vision 2050; and
- E. Ensuring adequate transportation infrastructure is available prior to development

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

of the PAA.

Policy LU4.8 The City shall review annexation of lands within the PAA and will ensure the City has adequate utilities, transportation and public safety services in its evaluation of the request. The City shall require developers to sign annexation no protest agreements as a condition of the extension of sewer or water service.

Policy LU4.9 The City shall take all reasonable and legal measures available to require connection to the City's sewer system.

Policy LU4.10 The planning area shall include all lands within the current city limits and sufficient land contiguous to the city limits as established by King County to be able to support Carnation's growth through the year 2044 without major adverse environmental impacts.

Policy LU4.11 Annexations of property within the Potential Annexation Area shall take place only using methods permitted by state law.

Policy LU4.12 Participate with King County in the Planned Annexation Agreement process to come to agreement with the County on the annexation, financing, public improvement, and development issues in Carnation's PAA.

Policy LU4.13 The City will process land use permits in a consistent and timely manner, in accordance with state and local laws and regulations.

Policy LU4.14 The City shall examine unincorporated property outside of the PAA for possible inclusion in the PAA in coordination with King County.

Policy LU4.15 The City shall examine unincorporated property outside of the UGA for possible inclusion in the UGA in coordination with King County. Potential land swaps shall be examined to follow development patterns and provide consistency with Vision 2050.

GOAL LU5

To preserve and promote Carnation's historic agricultural sense of place.

Policy LU5.1 Support the County-wide planning policies that limit or prevent the development of forests, farms, and mineral resources areas in adjacent areas of unincorporated King County.

Policy LU5.2 Promote commercial uses like Agri-tourism Industries that enhance the city's horticultural heritage.

Policy LU5.3 Promote architecture that is pedestrian friendly and conducive to human interaction.

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

Policy LU5.4 Provide for subdivision design that is pedestrian friendly and promotes connectivity throughout the City through-streets, walkways and pathways that connect neighborhoods.

Policy LU5.5 Continue to develop and update land use regulations that preserve and promote Carnation's history and small-town charm.

GOAL LU6

To promote land use that minimizes impacts to the natural environment and maximizes efficient use of resources through energy and water conservation.

Policy LU6.1 Promote commercial and industrial districts that allow for the growth of employment opportunities while maintaining the small-town charm of Carnation. More employment opportunities for residents can reduce the need for commuting to employment centers outside of the city.

Policy LU6.2 Promote a compact and walkable city form by concentrating dense residential land uses in and around the town center, promoting pedestrian and bicycle access from neighborhoods to businesses and services, and working towards a system of linked pedestrian and bicycle trails throughout the City.

Policy LU6.3 As City resources allow, promote green building practices and policies that are sensitive to environmental impacts and promote effective use of resources, including but not limited to Leadership in Energy & Environmental Design (LEED) and Built Green certification of new construction, and the use of Low Impact Development (LID) techniques to reduce storm water impacts.

Policy LU6.4 The City may utilize systems such as LEED or Built Green certification to ascertain the level of environmental protection and energy efficiency achieved.

Policy LU6.5 Development regulations may allow for food production as accessory uses while protecting neighboring properties from noise, odors or other impacts.

Policy LU6.6 To promote land use decisions that will reduce the production of greenhouse gases by reducing vehicular miles traveled, retaining and expanding tree canopy, and reducing energy use.

Policy LU6.7 Development regulations shall protect the quality and quantity of groundwater used for public water supplies and prevent discharges of pollutants into the state waters.

Policy LU6.8 As feasible, implement Night Sky initiatives that reduce light pollution and

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

reduce energy use. Examples include LED lights and fixtures that prevent light spills and discourage the use of up-lighting in non-essential areas.

Policy LU6.9 Adhere to the City's tree ordinance for the planting, care and maintenance of City trees.

Policy LU6.10 Give special consideration to achieving environmental justice, including efforts to avoid creating or worsening environmental health disparities.

Policy LU6.11 Utilize data from the King County Greenhouse Gas Emissions Analysis in setting goals for the reduction of greenhouse gas emissions.

Policy LU6.12 As feasible, install solar panels at city facilities.

Policy LU6.13 Partner with non-profits to assist vulnerable populations disproportionately affected by climate change including older adults, those with health conditions, people experiencing homelessness, low-income households and other marginalized communities. Provide multi-lingual resource materials.

Policy LU6.14 Identify community hazards related to climate change including extreme heat events, flood risk, wildfire smoke impacts on air quality, drought and storm-related infrastructure vulnerabilities in order to improve resilience and preparedness.

GOAL LU7

Protect, preserve and enhance those features of the natural environment which are most sensitive to human activities.

Policy LU7.1 The City of Carnation shall map and designate critical areas as defined in the city's development regulations and shall require new development to delineate critical areas on properties to be developed, to evaluate potential impacts and to provide mitigation of impacts of development to critical areas, in accordance with the city's development regulations.

Policy LU7.2 Provide incentives such as density credits for preservation of open space for habitat protection, hazard reduction and recreation as feasible.

Policy LU7.3 The City shall, in cooperation with appropriate county, state, tribal and federal agencies, participate in restoration practices in critical areas when possible.

Policy LU7.4 Any development in the floodplain or floodway shall meet the requirements of the National Flood Insurance Program (NFIP) regulations to ensure projects do not negatively impact or increase flood hazards or impact species listed under the Endangered Species Act (ESA).

City of Carnation
2024 Comprehensive Plan
LAND USE ELEMENT

Policy LU7.5 Collaborate with the Snoqualmie Tribe in promoting and protecting Carnation’s historic cultural resources and ensure recognition and respect for tribal treaty rights in land use decisions.

Policy LU7.6 Collaborate with Snoqualmie Tribe on interpretive signage, educational programs, and cultural heritage initiatives that highlight tribal history and treaty rights.

GOAL LU8

To promote a healthy community through land use development that allows residents to walk or bicycle for recreation and to access goods and services.

Policy LU8.1 The City’s land use decisions shall create a built environment that promotes and encourages physical activity through compact development and a looped system of safe and attractive pedestrian and bicycle accessways that link neighborhoods to each other and to the business district.

Policy LU8.2 As part of its economic development strategy, the City will promote retention and expansion of existing businesses, and establishment of new businesses, in order to provide employment, goods and services within walking or bicycling distance to many City residents.

GOAL LU9

To reduce and mitigate the risk to lives and property posed by wildfires.

Policy LU9.1 Partner with local and regional emergency management partners to provide community education on wildfire prevention and preparedness.

Policy LU9.2 Encourage the use of fire-resistant building materials for home hardening and the creation of defensible space.

Policy LU9.3 Consider inclusion of portions of the wildland urban interface code into local building code.