

APPENDIX A

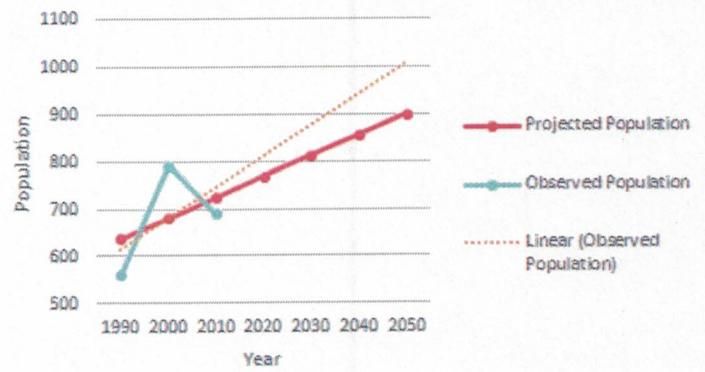
Demographics

Comparison of Linear, Geometric, & Exponential Population Projections

Population trends based on different calculations (linear, geometric, or exponential) are typically chosen by the smallest squared errors number and other factors unique to the population, such as economic health, population composition, and urbanization. Linear trends are used if the population is growing at a steady rate; geometric trends are also similar, but emphasize slightly more dramatic growth patterns. The error squared for Eureka's linear population forecast was 19,434.89, compared to the error squared for Eureka's geometric population forecast, which was 19,430.46. According to the error squared rule alone, the geometric population forecast would be more fitting because the error squared is smaller. However, linear population projections tend to be more cautious, and since Eureka's population growth has been largely dependent on the local mining industry and its recent decline, the linear population forecast would be more fitting.

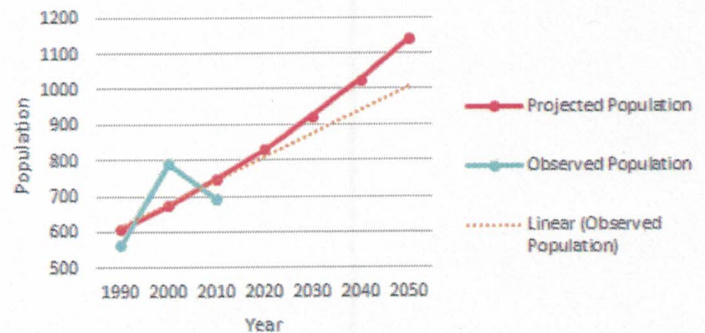
Exponential population projections are only used if the past population through the decades (1990, 2000, and 2010) have grown at a rate proportional to the population. The growth experienced in Eureka between 1880 and 1900 would have been fitting for an exponential growth trend since the estimated increase was 1,320.5% (1880-1890) and 78% (1890-1900). However, the average annual growth rate since 1990 has been 23.7%, so an exponential growth forecast would not accurately predict the future population.

Linear Population Projection for Eureka, Utah



12.1 Linear Projection for Eureka UT

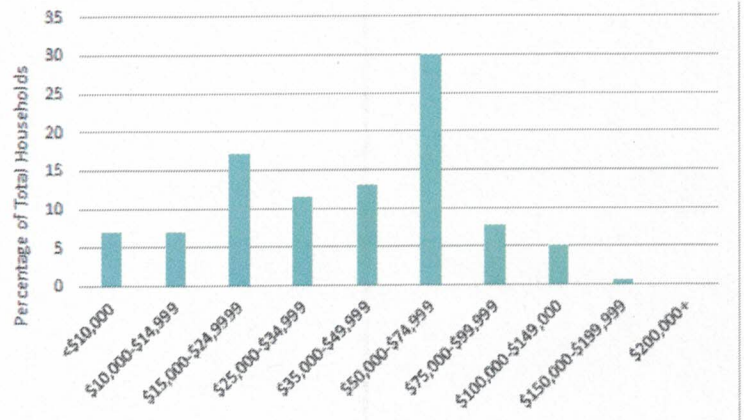
Geometric Population Projection for Eureka, Utah



12.2 Geometric Projection for Eureka UT

	2000	2010
Juab County	8238	9855
Eureka City	794	693
Levan	710	1094
Mona	850	1091
Nephi	4804	5256
Rocky Ridges	416	751
Santaquin	4834	9128

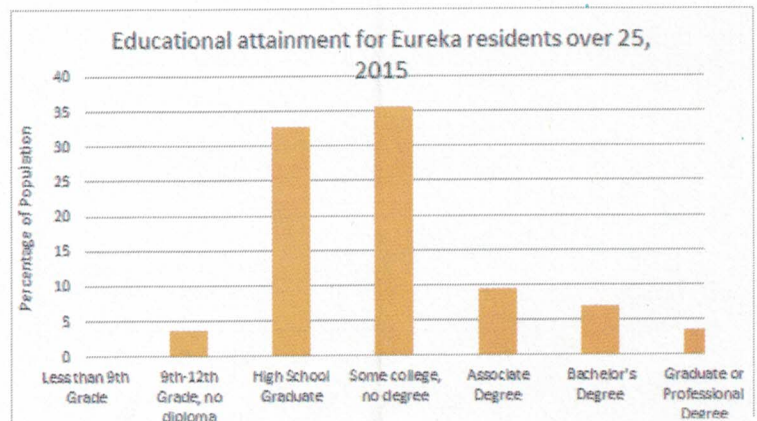
12.3 Population growth for Juab County



12.6 Percentage of total household median income (2015)

	Household Size (2000)	Household Size (2010)	Family Size (2010)
Eureka City	2.78	2.21	2.63
Utah	3.13	3.04	3.52
National	2.59	2.58	3.17

12.4 Household Size

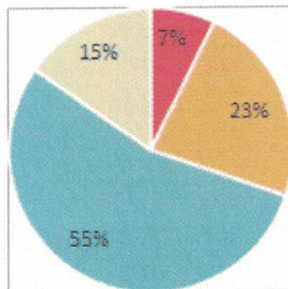


12.7 Education Attainment for Eureka, UT

Year	Eureka City	Juab County	Utah
1990	639	6626	1892956
2000	683	8101	2239968
2010	727	9577	2586980
Projection			
2020	770	11052	2933991
2030	814	12527	3281003
2040	858	14003	3628015
2050	901	15478	3975026

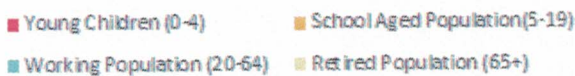
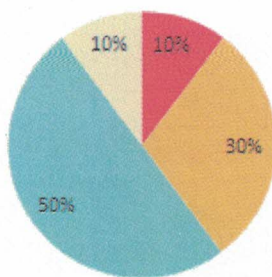
12.5 Population projections for Eureka City, Juab County, and Utah State

Eureka



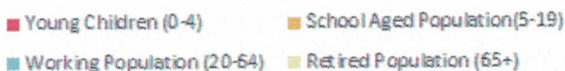
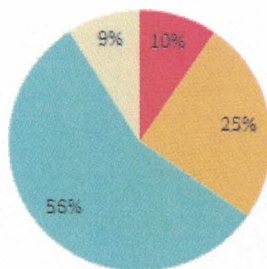
12.8 Population Age of Eureka, UT

Juab County



12.9 Population Age of Juab County, UT

Utah



12.10 Population Age of Utah State

Community Vision

The development of the Eureka Community Vision Statement occurred on August 31st and September 13th, 2017. Both meetings were held at 7pm at the City Hall and attended by the Eureka Executive Committee. The original Vision Statement from Eureka's General Plan from 1996 was reviewed, discussed, and edited. The current Vision Statement resulted from suggestions from the public, examples from other City's Vision Statements, and adjusted goals to current conditions.

Public Facilities

Culinary Water System Guidelines

1. The Eureka Water System provides for the safe and efficient delivery of water to the community
2. The City of Eureka provides for and controls major production, storage, and distribution facilities within its culinary water service area
3. Water and energy conservation measures should be incorporated in the planning, design, and operation of the system
4. Private developments participate in improvements and maintenance of the water system through water development impact fees, construction of selected facilities, and the provision of additional resources.
5. Private developments should provide all internal distribution facilities and water shares necessary to serve individual projects
6. In general, water distribution facilities should not be extended into undeveloped areas unless written assurances have been made for the development of a municipal sewer system to recapture effluent prior to connection to the water system
7. All distribution systems within the City service area and City limits should be designed to be interconnected for

emergency use and greater system reliability.

8. Private water improvements should be constructed to all applicable standards and specifications recommended by a registered Professional Engineer.

Sewer System Guidelines

1. The City of Eureka provides for and controls the major sewer facilities within its boundaries. Sewage is treated at a facility just southwest of the City.
2. The municipal sewer system provides for the safe and efficient collection, treatment, reclamation, and reuse of wastewater generated within the community.
3. Private developments participate in improvements to the major system through sewer development impact fees, construction of selected facilities, and by providing additional resources
4. Private developments provide all internal collection facilities necessary to serve individual projects.
5. Development projects should connect to the municipal sewer system.
6. Private sewer system improvements should be constructed to all applicable City standards and specifications.
7. Existing septic systems on lots in newly annexed areas should be required to connect to the City sewer system.

Storm Drainage and Flood Control Guidelines

1. The City of Eureka should plan for and control future major storm drainage and flood control facilities within its boundaries.
2. The planned future municipal storm drainage and flood control system should provide for the safe and efficient collection of stormwater generated within the community.
3. Private developments participate in improvements to the major system through storm drainage and flood control development impact fees, construction of selected facilities, and by providing additional resources.

4. Private storm drainage system improvements should be constructed to all applicable standards and specifications recommended by a registered professional engineer.
5. To the extent possible, drainage from new developments should be less than the site's natural condition.

Electrical Service Guidelines

1. The City of Eureka receives its electrical power through Rocky Mountain Power.
2. The visual impact of existing and proposed electrical transmission facilities should be minimized.
3. All new electrical distribution and service lines carrying less than 69 kV should be underground.
4. Major electrical transmission lines should parallel existing transmission lines whenever feasible.

Transportation

While Eureka currently does not have a transportation plan, many cities create transportation plans to steer development of roadway infrastructure in an appropriate manner. The primary purpose of a transportation plan is to balance future demands generated by the Land Use Chapter and the future demographics of Eureka with future roadway improvements. In this way, the transportation plan serves as a long-range strategy for efficiently supporting land development. Appropriate use of Eureka's long-range transportation plan would be to:

1. Secure right-of-way prior to or concurrent with land development.
2. Determine if outlying potential development could degrade existing streets and consider actions to limit or concentrate future land-use densities, if required.
3. Anticipate long-range financial demands and search for additional sources of street improvement funding.
4. Verify that a comprehensive transportation process has been completed, as is often required when applying for federal or state transportation funds.