Population Growth, Water Demand and Infrastructure

ROCKWOOD WATER PUD POPULATION PAST, PRESENT AND FUTURE

YEAR	POPULATION	
1925	1,100	
1970	33,754	In 45 years, population grew 29 fold.
1980	38,291	
1990	40,899	
1992	41,000	
1998	46,000	
2003	53,933	
2015	**62,175**	Since its inception, population grew 56 fold.
2020	63,698	
2025	65,047	
2030	68,490	In 60 years (since 1970), population will double.
2035	71,893	
2040	73,901	
2045	76,008	
Saturation	**79,747**	**Between now (2015) and saturation, population can grow 17,575 (28%).**

Sources: various Master Plans, Rockwood history document and Portland State University (Regional Water Providers Consortium).

WHEN POPULATION GROWS, SO DOES WATER USAGE

As we plan for future growth, we are planning for increased water usage and need to take steps to ensure there are reliable sources of supply to ensure demand will be met. Based on our Master Plan, we are expecting to realize these demands in the future:

YEAR	ADD	MDD	PHD
2013	10.32	16.43	23.15
2017	10.51	16.78	23.66
2022	10.7	17.13	24.18
2032	11.09	17.84	25.26
Saturation	16.07	24.05	32.81

ADD = Average Daily Demand
MDD = Maximum Daily Demand
PHD = Peak Hour Demand

Our long range planning is focused on ensuring the District's ability to meet these demands, most likely through a combination of water purchased from Portland (Bull Run and well field) and our own wells.

THE IMPORTANCE OF INFRASTRUCTURE

The District's infrastructure (i.e., water system and related assets) has a depreciated value of $36,727,778. Its replacement cost, less depreciation, is **$50.5 Million**. In order to ensure its reliability, it must be constantly maintained and repaired; and components that reach their useful life have to be replaced. Ongoing maintenance and repair is done by District staff and contractors. Replacement of system components, as well as the addition of new system infrastructure, is done in accordance with the District's multi-year Capital Improvement Plan. Between 2016 and 2032, the District will do the following:

1. 13 projects to improve fire flow and pressure in neighborhoods.
2. 21 projects to replace old steel water pipes.
3. Add 10 mgd of groundwater production capacity (3-6 wells).
4. 3 projects to replace and upsize transmission mains.
5. 2 pump station renewal/replacement projects (the District has six pump stations).

These projects will result in the replacement/installation of 13.7 miles of new pipe lines.

The following are included in the Master Plan, to be undertaken after 2032, but a date has not yet been specified because it is too far into the future:

1. 15 projects to improve fire flow and pressure in neighborhoods.
2. 13 projects to replace old steel water pipes.

These projects will result in the replacement/installation of 6.6 miles of new pipe lines.