

UNDERSTANDING MILLWOOD WATER RESOURCES: A NUMERICAL OVERVIEW

Source Capacity

Well	Depth (feet)	Installed pumping rate (gpm)
Old Park Well	112	1,000
Butler Well	130	750
New Park Well	196	2,200
Total		3,950
If all three wells were to pump for 18 hours* total production = 4,266,000 gallons/day		
*The recommended pumping rate per day for maintaining a "safety factor" in production		

Water Rights

The waters of the State belong to the people of the State and a permit is required for most uses. Millwood had 5 water rights for municipal supply totaling 3,900 gpm and 3,988 acre-feet annual quantity. Inchoate water right is the amount of permitted water rights not being used and is subject to relinquishment at some point in the future. As noted in the table below, Millwood has more than 3000-acre feet of inchoate water rights based on recent documented use. The Department of Ecology has encouraged Millwood "to seek possible interties with other water districts to utilize its inchoate water rights"¹.

¹ Department of Ecology's comment letter of their review of Millwood's 2018 Water System Plan

Highest Monthly Production

July 2024	45,968,945 gallons
August 2023	44,333,333 gallons
August 2022	44,065,000 gallons
July 2021	49,765,000 gallons

Annual Production/ Authorized Use / System loss

Year	Production (Gallons) (Acre- eet)		Authorized Use (Gallons)	System Loss (Gallons) (Percentage) (3 Year Avg. Percentage)		
2023	216,527,702	664.5	175,161,739	41,365,963	19.1	21
2022	206,315,000	633.2	157,703,234	48,611,766	23.6	22.4
2021	241,457,000	741.1	192,481,000	48,976,000	20.3	22.5
2020	220,125,000	675.6	168,613,761	51,551,239	23.4	23.1
2019	220,007,000	675.2	167,831,666	52,175,394	23.7	21.7

Observations

1. Millwood has a large pumping capacity
2. Millwood had the pumping and water right capacity to sell water to neighboring water systems, and to increase water sales revenue without affecting our citizens
3. Annual production and used water varies, but trends to be declining.
3. Although the 3-year average of system loss has been steadily declining, it is still more than twice the Department of Health standard of 10% or less.
5. Millwood loses almost as much water annually as is pumped during the peak month.
6. Millwood has replaced pipes in Grace, and Frederick as identified in the 2018 Water System Plan. That plan also call for replacing the rest of the old cast iron pipe (approximately 4,700 feet) in the future.