

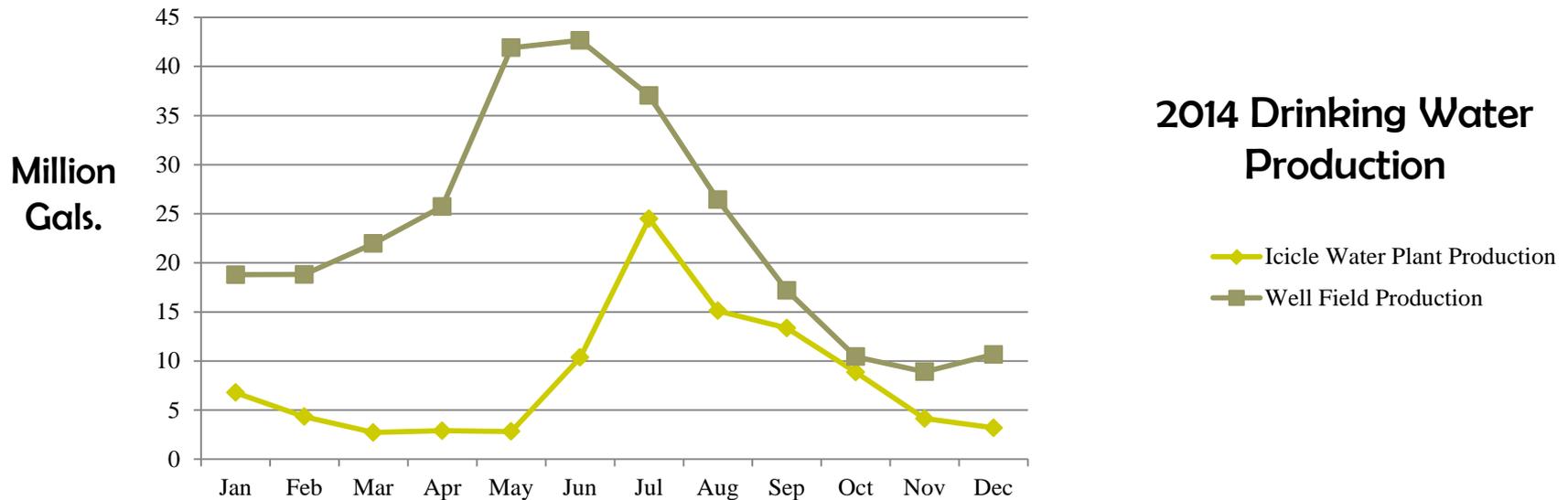


# 2015 Water Supply and Distribution



# Water Supply

- ❑ Icicle Creek Surface Water Intake
- ❑ Well Water





# Icicle Creek Water Intake

- ❑ Icicle Creek Surface Water intake and filter plant
- ❑ Current plant constructed in 1969.
- ❑ Current maximum capacity is 2.0 - 2.3 MGD.
- ❑ Gravity feed – elevation at the plant is 1367 FT elevation at the Icicle Reservoir 1341 FT.
- ❑ Production Limitations:
  - Water Turbidity
  - Water Temperature
  - Water Availability



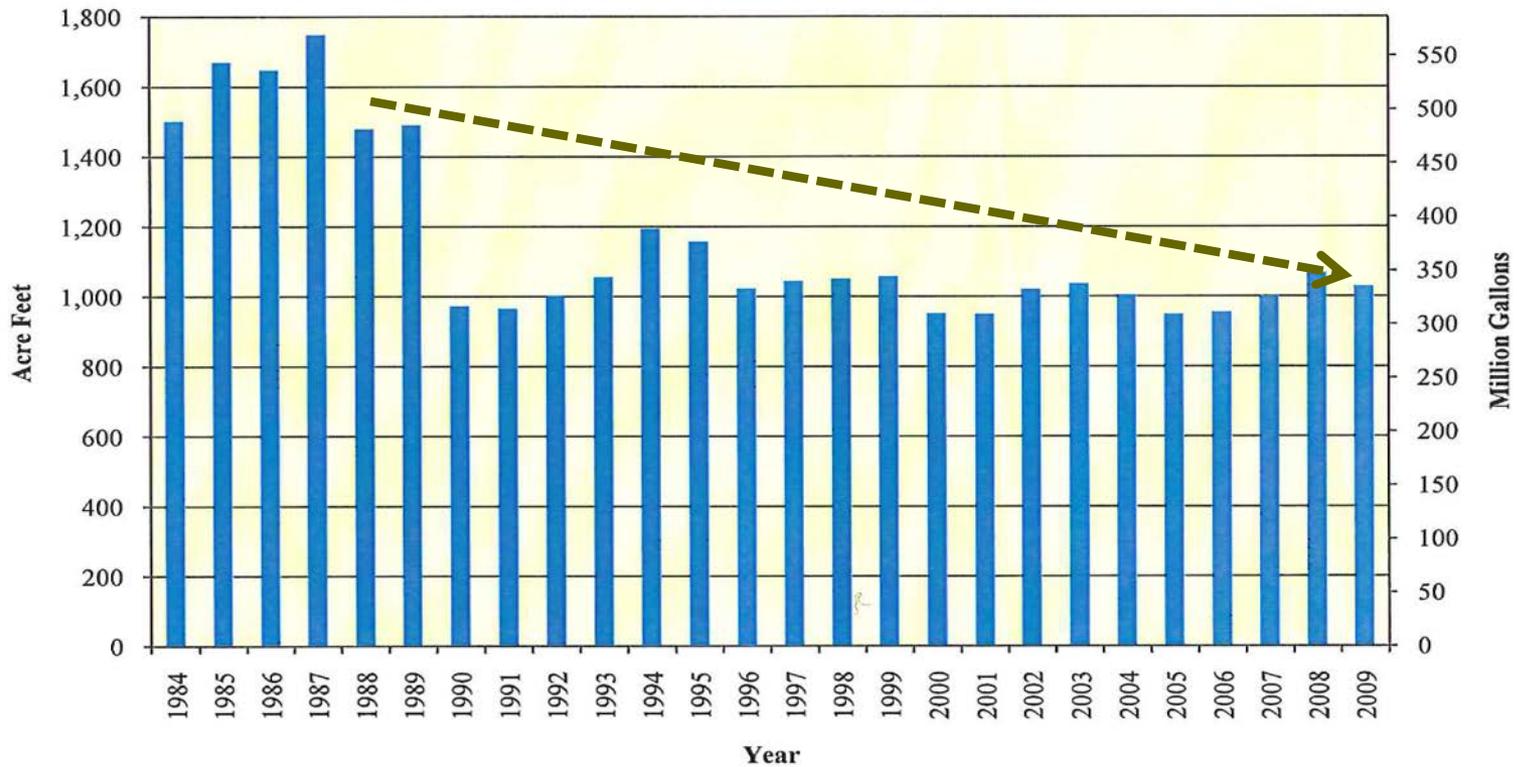


# Community Water Use

City of Leavenworth  
Water System Plan

3. Planning Data

Figure A Historical Source Production





# Community Water Use

- Since 1994 the water use and water production numbers have decreased.

	3 Yr. Ave. Production
1999	389 MG
2009	332 MG
2014	321 MG

- Highest production years on record 1987: 550 MG and 1994: 400 MG.
- Lowest production year 2013: 275 MG.
- The City has annual water rights in the amount of 2,185.95 ac-ft. (1987 550 MG or 1800 ac-ft.)



# Community Water Use

- An ERU is a unit of measure used to equate non-residential or multi-family residential water usage to a specific number of single-family residences. (2.5 people per household)
- Water System Capacity in 2011 was 4,302 ERUs.
- Approximately 2981 ERUs within the City Service Area.
- Percentage breakout is 66 % Commercial - 31% Residential.
- Calculated Average Daily use per ERU:
  - 2000 – 389 g.p.d. 2009 – 304 g.p.d.



# Water Shortage Action Plan

## 2011 Water System Plan

- Stage 1: Goal 5-10% Use Reduction.
  - Public Information on Water Conservation.
  - City Operations: Increase enforcement/leak detection.
- Stage 2: Goal 10 – 20% Use Reduction.
  - Continue Public Information Program.
  - City Operations: Limit irrigation on public facilities, water flushing, etc
  - Ordinance on water waste: sprinkler bans, frequency, limitations on irrigation.
- Stage 3: Goal 20-30% Use Reduction.
  - Public Information Program Continues.
  - City Operations: Public water use for health and safety only.
  - Stricter water use regulations and surcharges



## **LMC:13.04.290: Right to restrict water use**

- The city reserves the right, in case of shortage or potential shortage of water, to make orders through the city administrator or his designee forbidding the use of water for irrigation, sprinkling, or other nonessential purposes.
- Such order may be made at any time and, when printed in the official paper or served in writing upon the customer, shall be deemed as sufficient notice thereof.
- The city may adopt, by resolution, policies and procedures designed to encourage or mandate water conservation or curtailment measures when conditions require. [Ord. 860 § 29, 1990.]