



Water Production Update  
City Council  
July 21, 2020

# Background

- All of Monrovia's Potable Water is produced from ground water wells within the Main San Gabriel Basin.
- Water Rights within this Basin were adjudicated by the Courts in 1973 and the Basin is managed by the Watermaster.
- The goal of the Watermaster is to protect the health of the Basin by managing the amount of water that is appropriate to remove from it each year. This is known as the Operating Safe Yield
- The Operating Safe Yield of the Basin has been set at 150,000 acre feet for the past 6 years.

# Background

- Based upon an Operating Safe Yield of 150,000 acre feet, Monrovia's annual water production rights equal:

***5,740.80 acre feet***

Water Production Totals:

| Year     | Total Water Production |
|----------|------------------------|
| FY 13/14 | 7,973.01               |
| FY 14/15 | 6,874.82               |
| FY 15/16 | 6,100.85               |
| FY 16/17 | 6,580.52               |
| FY 17/18 | 7,200.03               |
| FY 18/19 | 6,825.43               |
| FY 19/20 | 6,894.52               |

# Year to Date Water Production

| Fiscal Year Through Month End June | Production (Acre Feet) | Variation From Drought Baseline | Variation from Previous Year to Date |
|------------------------------------|------------------------|---------------------------------|--------------------------------------|
| FY 2013-14                         | 7,973.01               |                                 |                                      |
| FY 2018-19                         | 6,825.43               | - 14%                           |                                      |
| YTD 2019-20                        | 6,894.52               | - 13.5%                         | 1.01%                                |

- This includes comparable year to date information for all years through June.
- 2013-14 Information is included as this was the benchmark year to be used for water conservation targets due to the drought.

# Monthly Production Data

|                      | July        | August      | September   | October     | November    | December    | January     | February    | March       | April       | May         | June        |
|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                      | Jul-18      | Aug-18      | Sep-18      | Oct-18      | Nov-18      | Dec-18      | Jan-19      | Feb-19      | Mar-19      | Apr-19      | May-19      | Jun-19      |
| <b>FY 18-19</b>      | 244,883,020 | 246,034,724 | 226,343,965 | 204,866,687 | 188,445,636 | 152,391,876 | 142,217,423 | 108,550,105 | 138,375,259 | 184,716,034 | 174,026,468 | 195,275,066 |
|                      | Jul-19      | Aug-19      | Sep-19      | Oct-19      | Nov-19      | Dec-19      | Jan-20      | Feb-20      | Mar-20      | Apr-20      | May-20      | Jun-20      |
| <b>FY-19-20</b>      | 226,924,031 | 239,146,010 | 224,527,191 | 218,945,502 | 184,548,985 | 137,060,377 | 158,220,690 | 157,931,423 | 132,719,915 | 131,586,518 | 210,500,000 | 199,053,000 |
| <b>Mo./Prev. Yr.</b> | -7.33%      | -2.80%      | 2-0.80%     | 6.87%       | -2.07%      | -10.06%     | 11.25%      | 45.49%      | -4.09%      | -28.76%     | 21%         | 1.93%       |

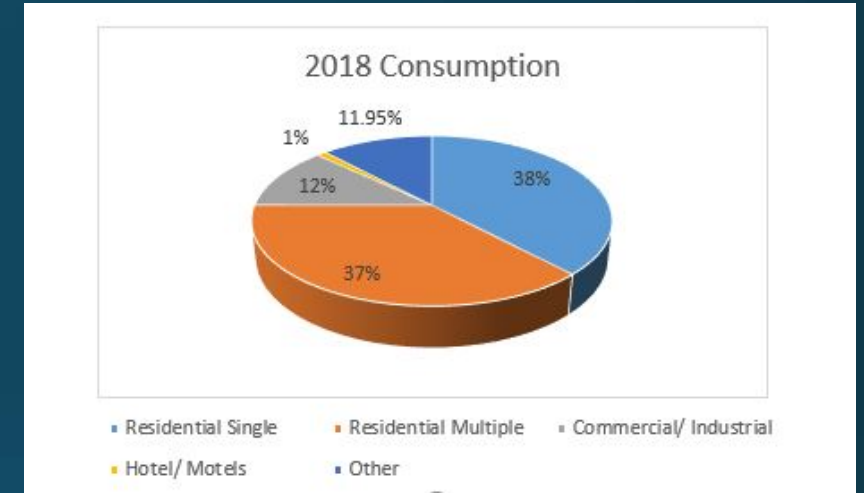
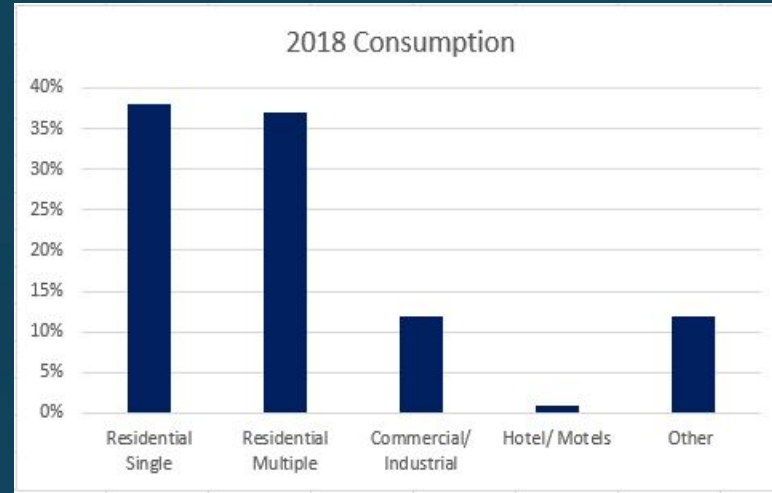
- November, December, March and April had rainfall amounts above normal.
- January and February had rainfall amounts below normal.

# Main San Gabriel Basin

- The Main San Gabriel Basin has been impacted by drought conditions over the past several years.
- The Basin Health is measured by a depth at the Key Well
  - Historic High (July 1983) 295.30'
  - Historic Low (November 2018) 169.40'
  - Current Level (July 17, 2020) 204.20'
- The basin health has continued to improve, through conservation and the proactive measures taken by the Watermaster.
- The Operating Safe Yield has been set, again, at 150,000 af for the next year.

# Consumption by Sections/Segments

| Consumption Category   | 2018 Percentage |
|------------------------|-----------------|
| Residential Single     | 38%             |
| Residential Multiple   | 37%             |
| Commercial/ Industrial | 12%             |
| Hotel/ Motels          | 1%              |
| Other                  | 12%             |



| Consumption Category   | 2019 Percentage |
|------------------------|-----------------|
| Residential Single     | 46%             |
| Residential Multiple   | 26%             |
| Commercial/ Industrial | 13%             |
| Hotel/ Motels          | 1%              |
| Other                  | 14%             |

