



Water Production Update
City Council
May 19, 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

Year to Date Water Production

Fiscal Year Through Month End April	Production (Acre Feet)	Production (Gallons)	Variation From Drought Baseline	Variation from Previous Year to Date
FY 2013-14	7,973.01	2,598,013,281.51		
FY 2018-19	7,026.52	2,289,598,565.52	- 15%	
YTD 2019-20	5,511.12	1,795,803,963.12,	- 17%	- 2%

- This includes comparable year to date information for all years through April.
- 2013-14 Information is included as this was the benchmark year to be used for water conservation targets due to the drought.
- For 2019-20, we are trending 2% below this time last year.

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
FY 18-19	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
FY-19-20	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	115,658,258		
Mo./Prev. Yr.	-7.33%	-2.80%	2-0.80%	6.87%	-2.07%	-10.06%	11.25%	45.49%	-4.09%	-37.39%		

- There have been some monthly swings in production, driven by weather, but the annual trends show a decrease of 2% in production.
- 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 (May 15, 2020) 205.10'
- The basin health has continued to improve, through conservation and the proactive measures taken by the Watermaster.
- While folks are optimistic, we need to continue to be conservative.
- The Operating Safe Yield has been set, again, at 150,000 af for the next year.