CoSF Water Supply & Demand Update: January- June 2022
This report is available at https://www.santafenm.gov/water

1. Supply and Demand Summary

- City of Santa Fe Water produced 1.36 billion gallons of potable water in the first six months of 2022, a 2% increase from the same period in 2021.

- 77% of that production came from surface water sources (rivers).

- 92% of potable water produced in 2022 has been delivered to customers (8% “unaccounted” water loss).

- Demand dropped steeply with the arrival of the monsoons in mid-June.

- Pumping tests at Buckman Wells 1 and 8 occurred in March and June.

- Potable production and use by day through the year are shown on Page 2.

- Potable production and use by day for June only is shown on Page 3.
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2022 City of Santa Fe Water Production and Use

- Canyon Road 345 MG (25% of total)
- City Wells 156 MG (11% of total)
- BDD to City 711 MG (52% of total)
- Buckman Wells 149 MG (11% of total)
- City Metered Use 1252 MG (92% of production)
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June 2022 City of Santa Fe Water Production and Use

- Canyon Road 42 MG (13% of total)
- BDD to City 137.8 MG (44% of total)
- City Wells 82.6 MG (26% of total)
- Buckman Wells 49.7 MG (16% of total)
- City Metered Use 281 MG (90% of production)
- Cumulative Watershed Rainfall (right axis)

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Day of Month

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Million Gallons

Cumulative Precipitation (Inches)
2. Cumulative Annual Surface Water and Groundwater Production

- Through June of 2022, City of Santa Fe Water has produced 4177 AF of potable water.

- 78% (3240 AF) of this production has come from river water, and 22% (937 AF) from wells.

- City of Santa Fe Water estimates renewable groundwater availability from all of our wells of approximately 4500 AF per year.

- 2022 well water use is 3% greater than the first 6 months of 2021, and 7% greater than the first six months of 2020, but still less than half of our estimated renewable groundwater availability.

- Total production through June 2022 is 2% greater than 2021 levels.

- Cumulative annual production from rivers and wells is shown on Page 5.
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City of Santa Fe Water Cumulative Production 2022

- River Water
- Well Water

2021 Total Production (% cumulative production from rivers)

<table>
<thead>
<tr>
<th>Month</th>
<th>River Water</th>
<th>Well Water</th>
<th>Total Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan-22</td>
<td>99%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feb-22</td>
<td>93%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mar-22</td>
<td>84%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apr-22</td>
<td>84%</td>
<td></td>
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<tr>
<td>May-22</td>
<td>83%</td>
<td></td>
<td></td>
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<tr>
<td>Jun-22</td>
<td>78%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Estimated renewable:
  - 7500 AF/yr
  - 3240 AF/yr
  - 937 AF/yr
3. City of Santa Fe Water Reservoir Storage

- Santa Fe River Reservoirs had 1170 AF of water in storage at the end of June (30% capacity).

- Santa Fe River Reservoirs have 1061 AF of “pre-compact” space, and 3921 AF of total capacity.

- City of Santa Fe Water had 13,706 AF of San Juan Chama water in storage at the end of June (~1.5x total annual potable demand).

- Reservoir storage in 2022 compared to 2020 and 2021 is shown on Page 7.
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**Total Santa Fe River Reservoir Storage**

**Total San Juan Chama Project Storage**

* In Heron, El Vado, Abiquiu, and Elephant Butte (2008-2014 only). Does not include SJC water stored by exchange in SF River reservoirs.
4. Miscellaneous

- Discolored water update
  - Uptick in discolored water complaints starting in May, surging in early July
  - Possible “mechanical” causes include rapid water movement stirring up sediment in the lines. This could be caused by
    - main breaks (e.g. June 7th Henry Lynch Road)
    - hydrant testing (e.g. June 11th, South Capitol)
    - potential Pressure Reducing Valve (PRV) malfunction in aftermath resulting in continued rapid water flow in parts of system after disruption. (under investigation)
  - Possible “chemical” causes include change to chemistry of source water causing water to dissolve mineral build up in pipes.
  - Actions taken:
    - Shut down Canyon Road Water Treatment Plant 7/6/2022
      - No indication this was the issue except location of complaints
    - Inspection and tuning of PRV’s 7/7 – 7/9/2022
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Discolored water complaints by month 2020 – July 5, 2022
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- **Large CIP Projects Update**

<table>
<thead>
<tr>
<th>Project</th>
<th>Benefit</th>
<th>Estimated Cost</th>
<th>Design</th>
<th>Permitting</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRWTP Floc-Sed</td>
<td>Upgrade the aging flocculation and sedimentation basins at Canyon Road Water Treatment plant creating a more efficient and resilient process and increasing plant capacity.</td>
<td>$ 15,000,000</td>
<td>2020 2022</td>
<td>NA NA</td>
<td>2023 2025</td>
</tr>
<tr>
<td>Nichols Outlet Conduit</td>
<td>Update the aging Nichols Outlet conduit, intake structure, and connection to the CRWTP to address potential dam safety concerns and improve control of water deliveries from the reservoir.</td>
<td>$ 18,000,000</td>
<td>2019 2021</td>
<td></td>
<td>2023 2023</td>
</tr>
<tr>
<td>San Juan Chama Return Flow</td>
<td>Reclaim the City’s unconsumed San Juan Chama Project (SJCP) water at the Paseo Real Water Reclamation Facility and return it to the Rio Grande directly below the Buckman Direct Diversion. This Project will allow for the same diversions with less water released from upstream reservoirs. This full consumption of SJCP water will stretch this valuable resource to serve three times more demand than it does now.</td>
<td>$ 35,000,000</td>
<td>2022 2023</td>
<td>2021 2023</td>
<td>2024 2026</td>
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