

# National Water Model FC District Stream Gauge Locations with Links



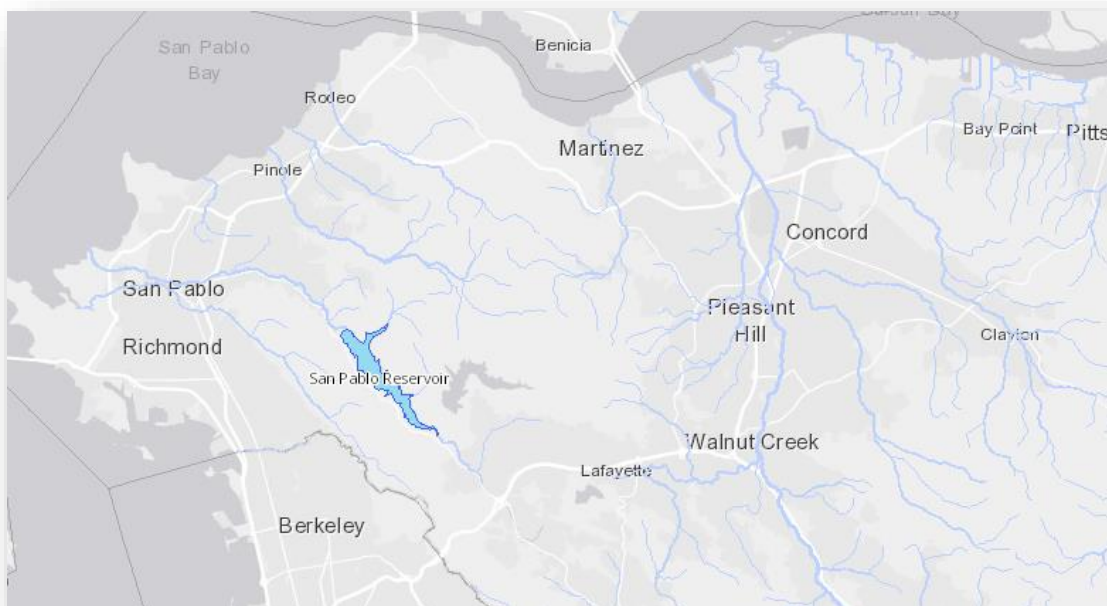
## How to view the National Water Model at the FC District's stream gauge locations

By: Contra Costa County Flood Control and Water Conservation District



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The National Water Model map interface (<https://water.noaa.gov/map>) allows users to zoom in, click on any creek reach, click a button, and see the forecast flow hydrographs for that creek reach.

The blue lines on the map (see **Figure 1**) represent these tributaries and are based on a national creek and river database and may not reflect what is actually in existence. For example: a bypass channel may not be included in the "blue line" data.



*Figure 1 - Sample view of the National Water Model Map*

After you click the orange button , a window pops up with a graph of the "analysis" (past) and different forecast ranges of the tributary's flows. Clicking the various time series options at the top of the popup and clicking a green button  will rebuild the plot with forecast ranges you selected.

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*Figure 2 - Example forecast hydrographs in the National Water Model*

The plot in **Figure 2** is for a reach of Walnut Creek. The medium and short range forecasts are better. Floating your mouse over the graph shows their modeled flows. Use the long range forecasts peaks for timing information or a “heads up” that future storms may produce higher runoff. The flows should be taken as gross estimates that far out. The [National Water Model](#) has not been calibrated at any locations in Contra Costa County.

## National Water Model FC District Stream Gauge Locations with Links

The National Water Model (NWM) links that are associated with the Flood Control District stream gauges have been added to the [RainMap](#) (see Figure 3). Go to Datasets>Water Level and click the point at Marsh Drive Bridge. Then click the "Natl. Water Model Forecast" link. The NWM site works better on a PC.

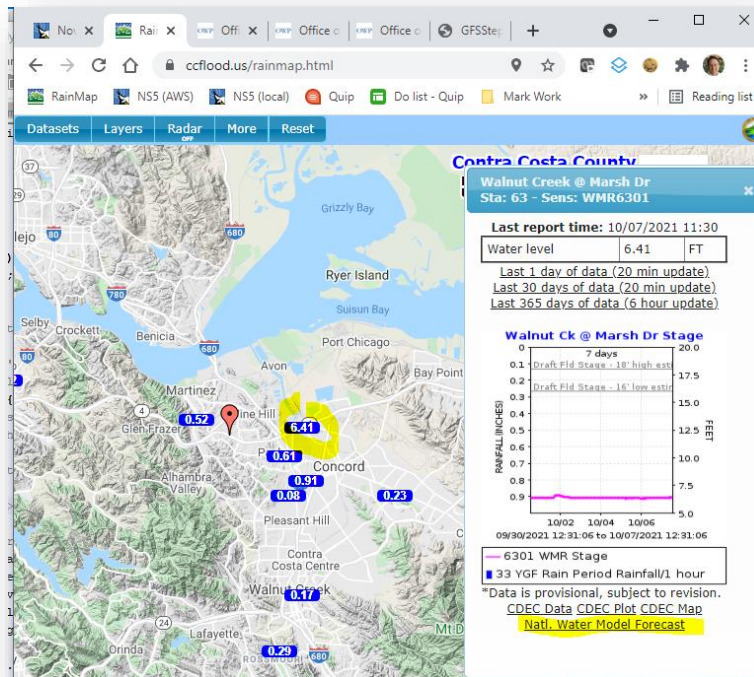


Figure 3 - RainMap screen snip

By making sure the "Long Range Forecast" option is turned on you can see an estimate of the flows several weeks out. The further out the forecast, the less reliable it is. You can, however, get a sense of what flows might be coming.

The plot shows flows from several models. The National Oceanic and Atmospheric Administration (NOAA) calls this an "ensemble" and you will see more than one line. If the forecast is a long way off, it is anyone's guess what which line is correct. The data is updated every 6 hours and what might seem to be a threat coming in two weeks could disappear and then come back.

The short-range forecasts are more accurate and updated more frequently. We have been told by people at NOAA that the National Water Model is a poor predictor of flow early in the season as it does not account very well (not calibrated) for dry watersheds early in the California fall and winter..

## National Water Model FC District Stream Gauge Locations with Links

Below are links to specific creek reaches where the Flood Control District has stream gauges.

**Ctrl-mouse click to open links from MS Word**

### ACZ-Alhambra Creek @ D St.

[https://water.noaa.gov/map?center\\_x=-13595464.46071841&center\\_y=4579688.635809124&lat=38.00346673786119&lon=-122.12996353629418&zoom=16&reachID=948050078&reachName=N/A&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13595464.46071841&center_y=4579688.635809124&lat=38.00346673786119&lon=-122.12996353629418&zoom=16&reachID=948050078&reachName=N/A&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### RHW-Rodeo Creek @ Hawthorne Dr.

[https://water.noaa.gov/map?center\\_x=-13608430.091641253&center\\_y=4581513.569859428&lat=38.02459878802311&lon=-122.26304401877726&zoom=15&reachID=1670357&reachName=Rodeo Creek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13608430.091641253&center_y=4581513.569859428&lat=38.02459878802311&lon=-122.26304401877726&zoom=15&reachID=1670357&reachName=Rodeo Creek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### PSP-Pinole Creek @ San Pablo Ave.

[https://water.noaa.gov/map?center\\_x=-13612275.829626989&center\\_y=4579922.724208191&lat=38.00623961006109&lon=-122.2893511247964&zoom=15&reachID=948050069&reachName=N/A&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13612275.829626989&center_y=4579922.724208191&lat=38.00623961006109&lon=-122.2893511247964&zoom=15&reachID=948050069&reachName=N/A&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### VBR-Wildcat Creek @ Vale Rd

[https://water.noaa.gov/map?center\\_x=-13617043.589266425&center\\_y=4572489.2232072605&lat=37.95316487754896&lon=-122.33818878654102&zoom=15&reachID=1671771&reachName=N/A&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13617043.589266425&center_y=4572489.2232072605&lat=37.95316487754896&lon=-122.33818878654102&zoom=15&reachID=1671771&reachName=N/A&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### GCA-Grayson Creek @ Center Ave

[https://water.noaa.gov/map?center\\_x=-13589103.466771327&center\\_y=4576757.753505931&lat=37.983208063974764&lon=-122.06861605171015&zoom=15&reachID=2789555&reachName=Grayson Creek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13589103.466771327&center_y=4576757.753505931&lat=37.983208063974764&lon=-122.06861605171015&zoom=15&reachID=2789555&reachName=Grayson Creek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### GCC-Grayson Creek @ Taylor Blvd

[https://water.noaa.gov/map?center\\_x=-13588869.378372207&center\\_y=4574163.671858432&lat=37.96162422514426&lon=-122.06604113105584&zoom=15&reachID=2789273&reachName=Grayson Creek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13588869.378372207&center_y=4574163.671858432&lat=37.96162422514426&lon=-122.06604113105584&zoom=15&reachID=2789273&reachName=Grayson Creek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

## National Water Model FC District Stream Gauge Locations with Links

### WMR-Walnut Creek @ Marsh Rd

[https://water.noaa.gov/map?center\\_x=-13587904.36089001&center\\_y=4578253.052871759&lat=37.998918324084904&lon=-122.05617060188018&zoom=15&reachID=2789229&reachName=WalnutCreek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13587904.36089001&center_y=4578253.052871759&lat=37.998918324084904&lon=-122.05617060188018&zoom=15&reachID=2789229&reachName=WalnutCreek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### WDB-Walnut Creek @ Diamond Blvd

[https://water.noaa.gov/map?center\\_x=-13586910.679522274&center\\_y=4574949.540055463&lat=37.96947362807402&lon=-122.05389608863547&zoom=16&reachID=2789253&reachName=WalnutCreek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13586910.679522274&center_y=4574949.540055463&lat=37.96947362807402&lon=-122.05389608863547&zoom=16&reachID=2789253&reachName=WalnutCreek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### WCY-Walnut Creek @ Ygnacio Blvd

[https://water.noaa.gov/map?center\\_x=-13587116.104035791&center\\_y=4566319.321830405&lat=37.907450636812754&lon=-122.05627789024072&zoom=16&reachID=2789339&reachName=WalnutCreek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13587116.104035791&center_y=4566319.321830405&lat=37.907450636812754&lon=-122.05627789024072&zoom=16&reachID=2789339&reachName=WalnutCreek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### RMB-Tice Creek @ Rossmoor Basin

[https://water.noaa.gov/map?center\\_x=-13588706.949687019&center\\_y=4561627.999219596&lat=37.87591986442404&lon=-122.07230677131415&zoom=15&reachID=2789375&reachName=TiceCreek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13588706.949687019&center_y=4561627.999219596&lat=37.87591986442404&lon=-122.07230677131415&zoom=15&reachID=2789375&reachName=TiceCreek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### GVD-Green Valley Creek @ Diablo Rd

[https://water.noaa.gov/map?center\\_x=-13580138.83654741&center\\_y=4554760.609959628&lat=37.8266832054169&lon=-121.9867979479169&zoom=14&reachID=2790413&reachName=GreenValleyCreek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13580138.83654741&center_y=4554760.609959628&lat=37.8266832054169&lon=-121.9867979479169&zoom=14&reachID=2790413&reachName=GreenValleyCreek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### GTB-Galindo Creek @ Treat Blvd

[https://water.noaa.gov/map?center\\_x=-13579847.420377119&center\\_y=4573888.976287951&lat=37.961429671096006&lon=-121.9924305868485&zoom=16&reachID=2790323&reachName=GalindoCreek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13579847.420377119&center_y=4573888.976287951&lat=37.961429671096006&lon=-121.9924305868485&zoom=16&reachID=2790323&reachName=GalindoCreek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

## National Water Model FC District Stream Gauge Locations with Links

### LTC-Las Trampas Creek @ Walnut Creek

[https://water.noaa.gov/map?center\\_x=-13589048.527657054&center\\_y=4563976.049181999&lat=37.89109425254088&lon=-122.06546177390697&zoom=15&reachID=2789579&reachName=Las Trampas Creek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13589048.527657054&center_y=4563976.049181999&lat=37.89109425254088&lon=-122.06546177390697&zoom=15&reachID=2789579&reachName=Las Trampas Creek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### PCM-Pine Creek @ Market St.

[https://water.noaa.gov/map?center\\_x=-13586215.580296341&center\\_y=4575100.025454892&lat=37.97009951416586&lon=-122.04638590339414&zoom=16&reachID=2789557&reachName=Pine Creek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13586215.580296341&center_y=4575100.025454892&lat=37.97009951416586&lon=-122.04638590339414&zoom=16&reachID=2789557&reachName=Pine Creek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### MDK-Mt Diablo Creek @ Kirker Pass Rd

[https://water.noaa.gov/map?center\\_x=-13576307.430504665&center\\_y=4572494.000521771&lat=37.954467680547744&lon=-121.95401062491918&zoom=15&reachID=2790329&reachName=Mount Diablo Creek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13576307.430504665&center_y=4572494.000521771&lat=37.954467680547744&lon=-121.95401062491918&zoom=15&reachID=2790329&reachName=Mount Diablo Creek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### BSR-Bollinger Canyon Creek @ Crow Canyon Rd

[https://water.noaa.gov/map?center\\_x=-13581342.719742885&center\\_y=4547346.218215963&lat=37.77317353387462&lon=-121.9936644029946&zoom=15&reachID=2790443&reachName=Bollinger Canyon Creek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13581342.719742885&center_y=4547346.218215963&lat=37.77317353387462&lon=-121.9936644029946&zoom=15&reachID=2790443&reachName=Bollinger Canyon Creek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### MCR-Marsh Creek Reservoir

(NOTE: The NWM does not yet model the detention of water behind the Marsh Creek Reservoir Dam)

[https://water.noaa.gov/map?center\\_x=-13550115.364982914&center\\_y=4563818.327157044&lat=37.889569679811345&lon=-121.72730636595846&zoom=14&reachID=1897294&reachName=Marsh Creek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13550115.364982914&center_y=4563818.327157044&lat=37.889569679811345&lon=-121.72730636595846&zoom=14&reachID=1897294&reachName=Marsh Creek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=medium_range)

### MDA-Marsh Creek @ Dainty Ave

(NOTE: The NWM does not yet model the detention of water behind the Marsh Creek Reservoir Dam and other detention basins)

[https://water.noaa.gov/map?center\\_x=-13550710.58065778&center\\_y=4569259.758762285&lat=37.93248613189903&lon=-121.71106686118694&zoom=15&reachID=1892802&reachName=Marsh Creek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13550710.58065778&center_y=4569259.758762285&lat=37.93248613189903&lon=-121.71106686118694&zoom=15&reachID=1892802&reachName=Marsh Creek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

## National Water Model FC District Stream Gauge Locations with Links

### MCB-Marsh Creek @ Brentwood

(NOTE: The NWM does not yet model the detention of water behind the Marsh Creek Reservoir Dam and other detention basins)

[https://water.noaa.gov/map?center\\_x=-13546525.653359102&center\\_y=4573826.871202372&lat=37.96255469389608&lon=-121.68707718375755&zoom=15&reachID=1896910&reachName=MarshCreek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13546525.653359102&center_y=4573826.871202372&lat=37.96255469389608&lon=-121.68707718375755&zoom=15&reachID=1896910&reachName=MarshCreek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

### MCF-Marsh Creek @ Fire Station

[https://water.noaa.gov/map?center\\_x=-13565301.692760179&center\\_y=4564775.054993387&lat=37.897511942185936&lon=-121.8605195474962&zoom=16&reachID=1893504&reachName=MarshCreek&forecastChart=true&variable=streamflow&forecastType=analysis\\_assim&forecastType=short\\_range&forecastType=medium\\_range](https://water.noaa.gov/map?center_x=-13565301.692760179&center_y=4564775.054993387&lat=37.897511942185936&lon=-121.8605195474962&zoom=16&reachID=1893504&reachName=MarshCreek&forecastChart=true&variable=streamflow&forecastType=analysis_assim&forecastType=short_range&forecastType=medium_range)

MB:

File: \\pw-data\grpdata\fldctl\Hydrology\National Water Model\National Water Model FC District Stream Gauge Locations with Links.docx