



**USGS Highlights March 2019**



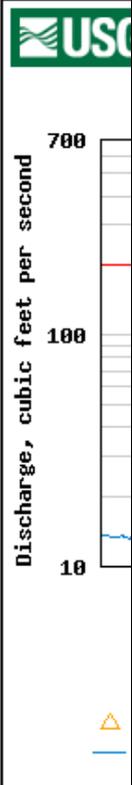
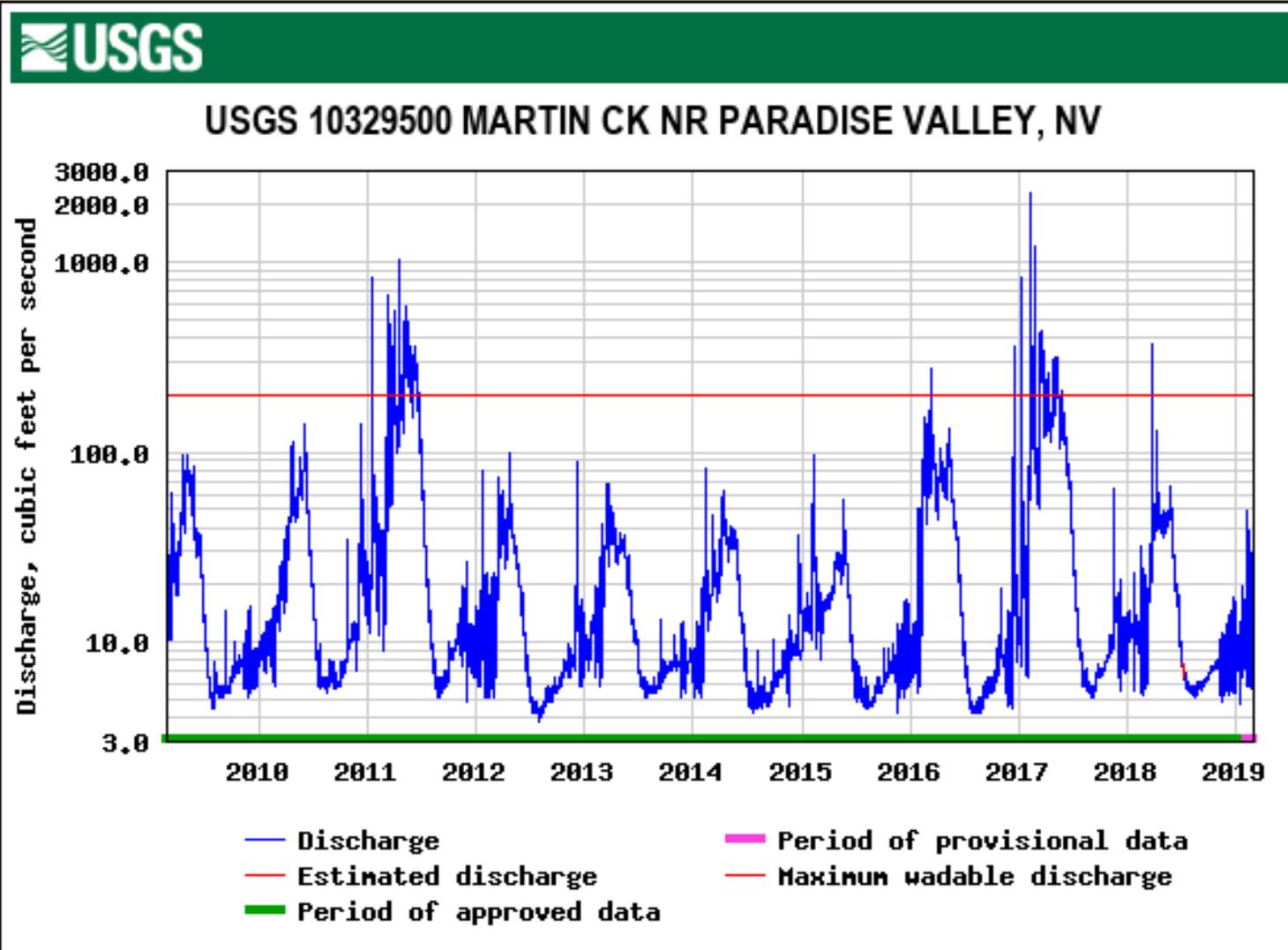
# February 14, 2019 Event



- 26 direct measurements in the Truckee and Carson Basins
- Peak verifications, highest event so far in 2019 Water Year
- 1 pending indirect
- Sediment sampling on Clear Creek
- Elko routine visits happening during event
- New ratings developed for Winters, Davis, and NTD Big Fish

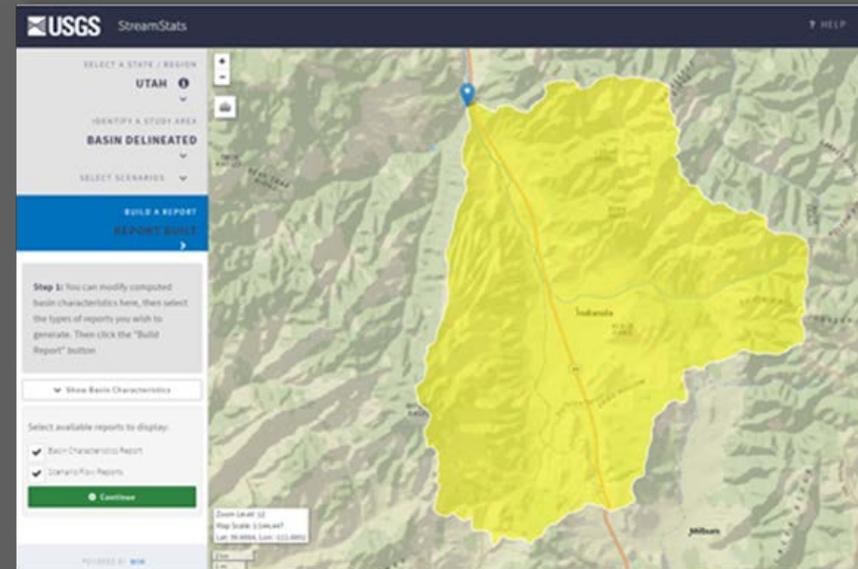


# Feb 27-28 Martin Creek Event



# Nevada is Implementing StreamStats

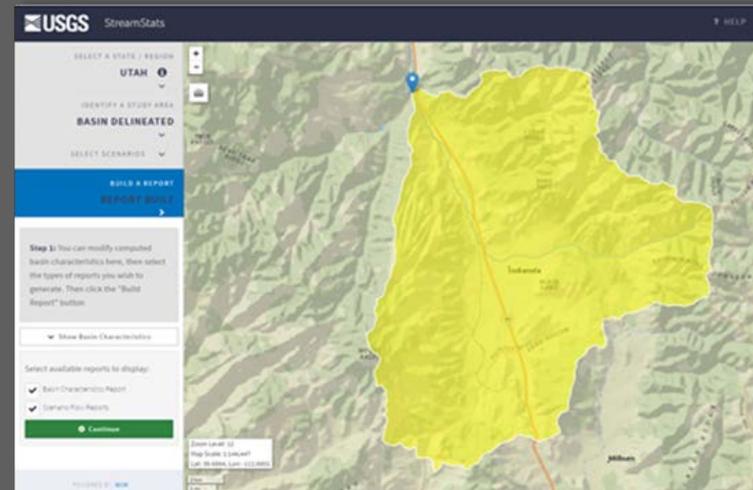
- ➔ StreamStats is web-based application that allows the user to click on any stream point in the state. The drainage basin is automatically delineated
- ➔ Streamflow statistics (such as peak flows, mean flows, low flows), and basin characteristics (such as area, mean slope, mean elevation, % forest cover) are automatically calculated for the select point
- ➔ Easy to use, automated, no specialized training or software need



Fully implemented in 33 states  
with 4 states in process

# Nevada is Implementing StreamStats

- ➔ Currently have funding from NV BLM to implement the application, include some basin characteristics and streamflow statistics
- ➔ We need partners to help to identify and fund the development of additional basin characteristics and streamflow statistics are also need
- ➔ An open house will be held later this spring (date to be determined) with numerous stakeholders to discuss current and potential application development



# New and Discontinued Gages for 2019

- 10348550 DAVIS CK AT DAVIS CK CMPGRD RD NR WASHOE CITY
- 10348570 WINTERS CK BLW US ALT 395 NR WASHOE CITY
- 362910114280401 Kaolin Spring near Moapa
- 09415090 VIRGIN RV AT MESQUITE - pending
- 09415250 VIRGIN RV ABV LAKE MEAD NR OVERTON move before May.



10336715 MARLETTE CK NR CARSON CITY

# New Hydrographer Faces



Director Berger's retirement



# Very Little Data Loss

- ⇒ National level equipment outage – 14% of gages across the country affected.
  - 10348000 TRUCKEE RV AT REMOVED
  - 4 Gages in Vegas
- ⇒ Winter conditions



APPENDIX 1. A



USGS is working to restore the approximately 14% of streamgages that are offline due to an issue with the telemetry system that records and transmits streamgage data. Learn more @ [on.doi.gov/2O19bxa](https://on.doi.gov/2O19bxa)

♡ 37 2:34 PM - Oct 24, 2018

# 10348200 TRUCKEE RV NR SPARKS Vandalism

- ⇒ 4/2: Old gage house was pushed over
- ⇒ 4/19: Solar panel stolen from gage house.
- ⇒ 6/26: Gage broken into, battery stolen, equipment damaged
- ⇒ 7/4: Solar panel stolen from gage house
- ⇒ 8/7: More damage
- ⇒ 8/8: Cage around gage installed by TMWA
- ⇒ 11/21: More damage



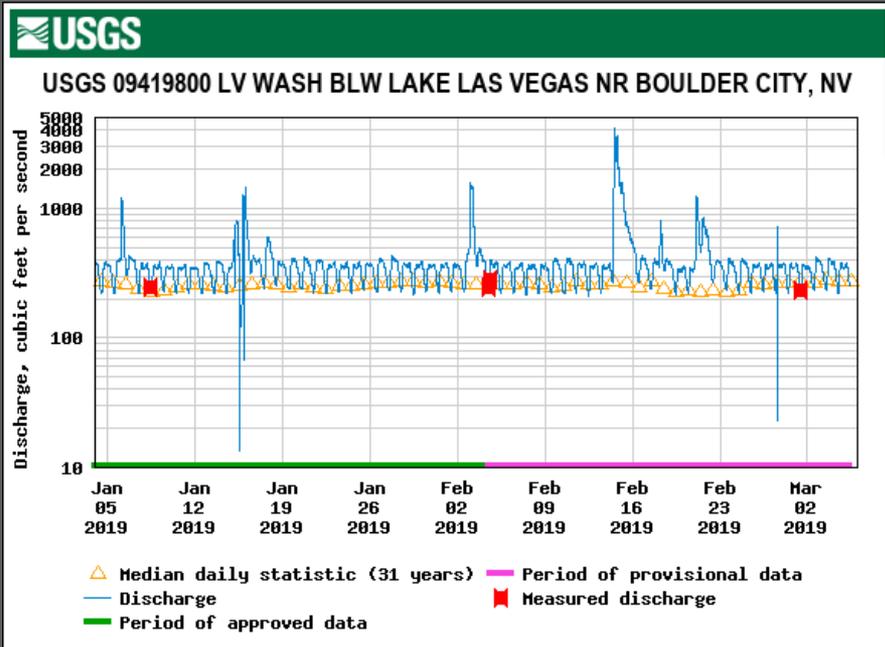
# Gages Impacted by Fire in 2018

- ➔ 10329500 MARTIN CK NR PARADISE VALLEY
- ➔ 13174500 OWYHEE RV NR GOLD CK
- ➔ 10316500 LAMOILLE CK NR LAMOILLE

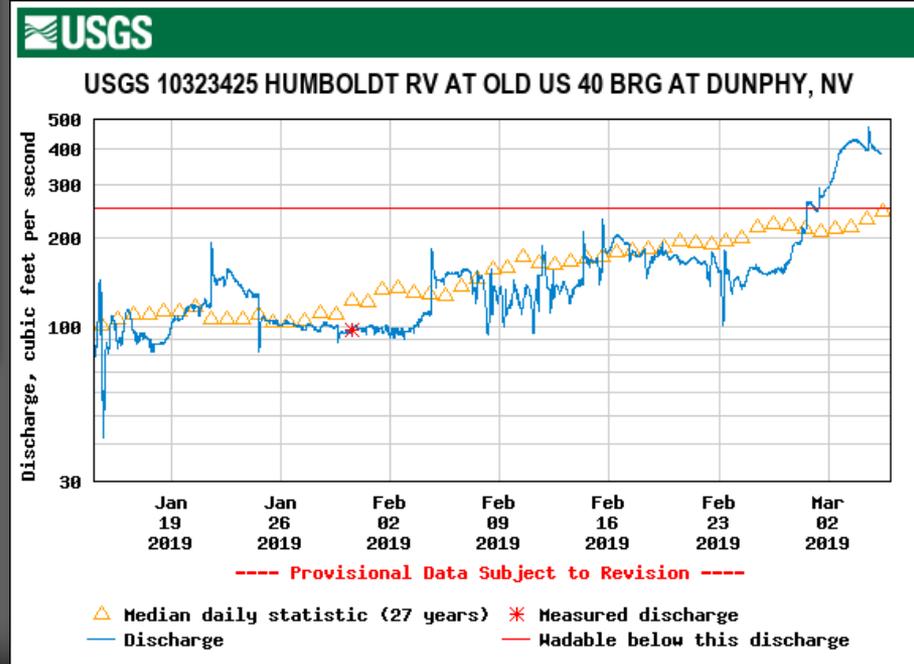




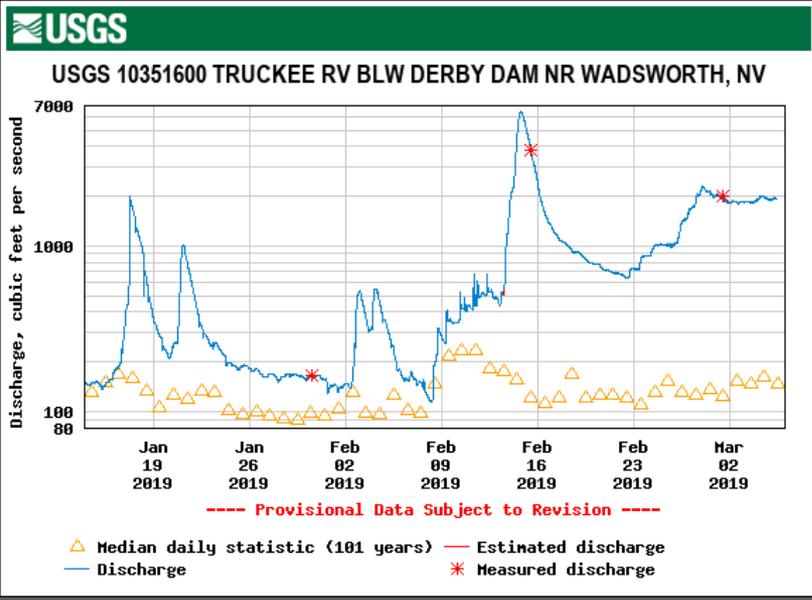
# 09419800 LV WASH BLW LAKE LAS VEGAS NR BOULDER CITY



# 10323425 HUMBOLDT RV AT OLD US 40 BRG AT DUNPHY

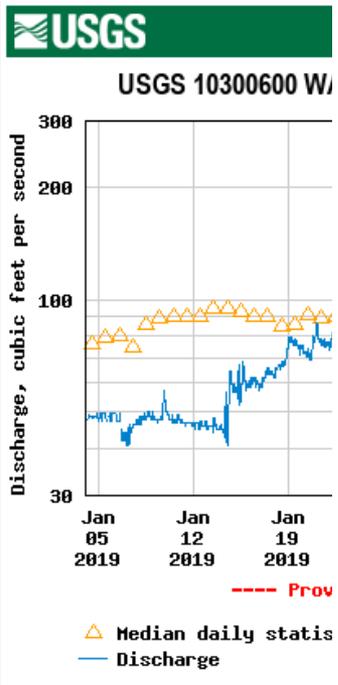
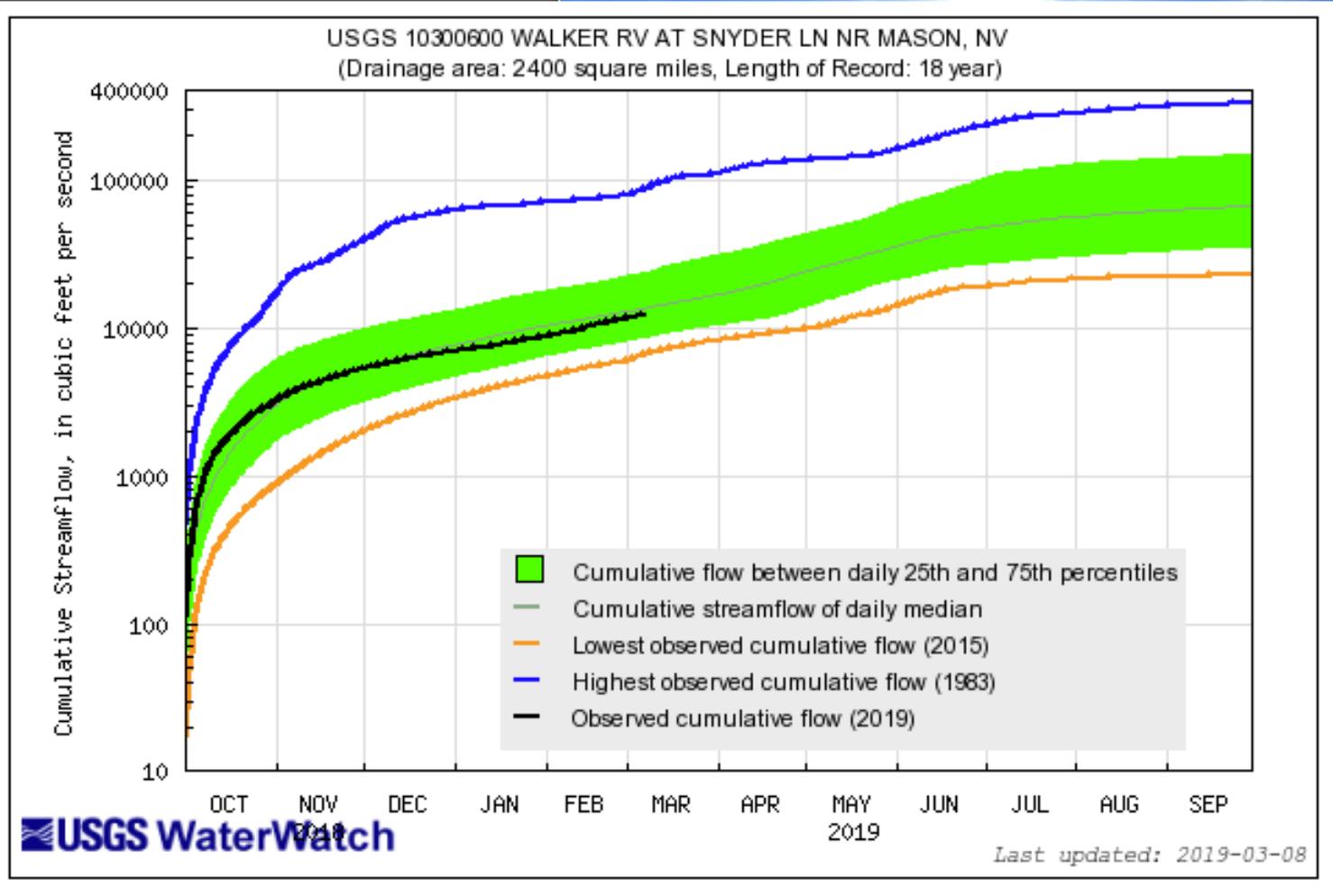


# 10351600 TRUCKEE RV BLW DERBY DAM NR WADSWORTH



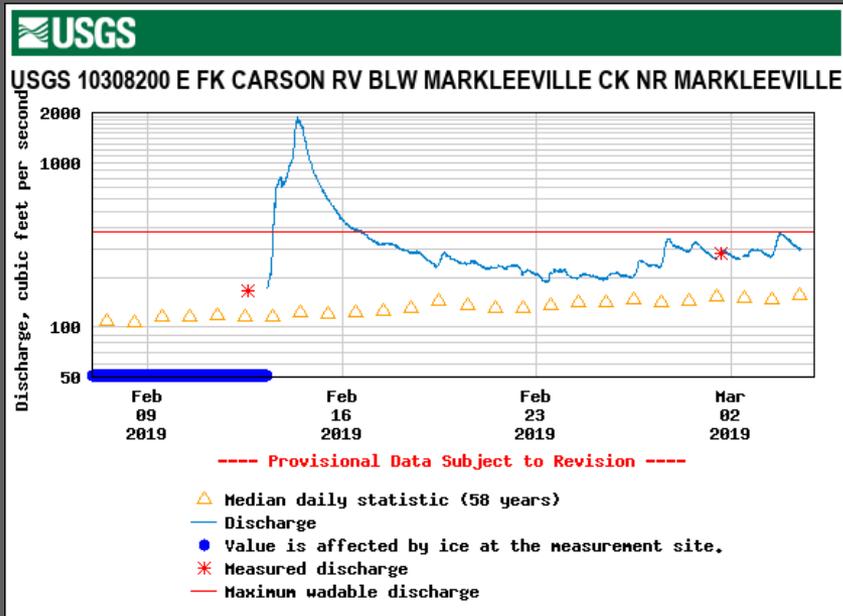
# 10300600 WALKER RV AT SNYDER LN NR

## MASON

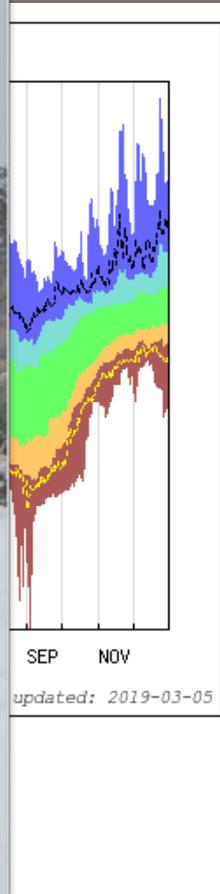
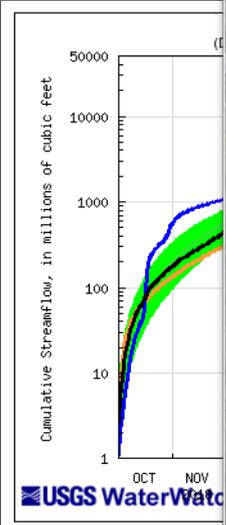


# 10308200 E FK CARSON RV BLW MARKLEEVILLE CK NR MARKLEEVILLE

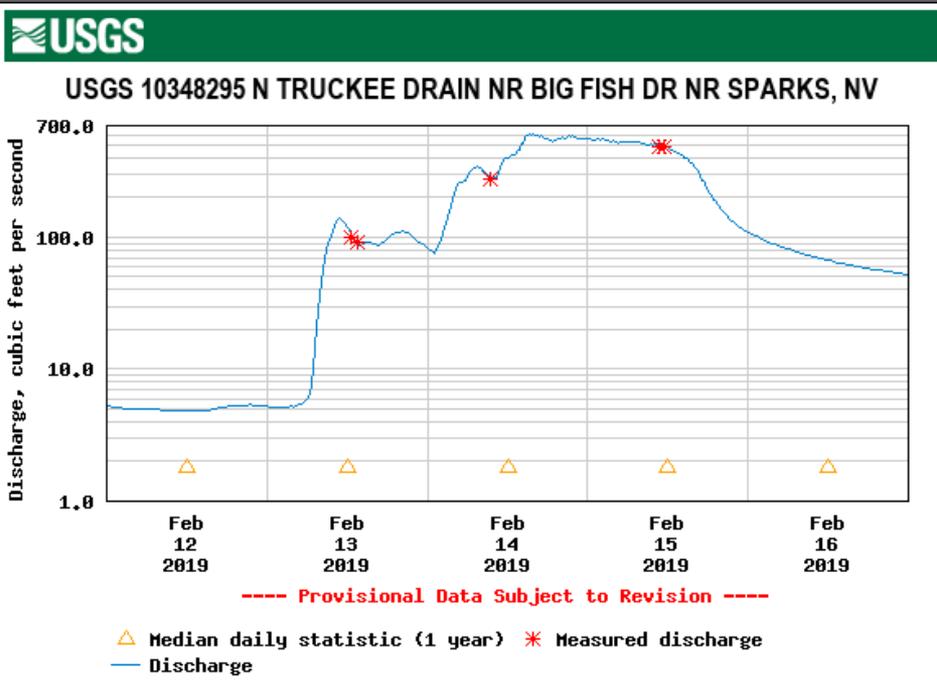
- ➔ 2 stage sensors
- ➔ 2 peak verifications
- ➔ 5 minute data, 15 minute transmits



# 10311000 CARSON RV NR CARSON CITY

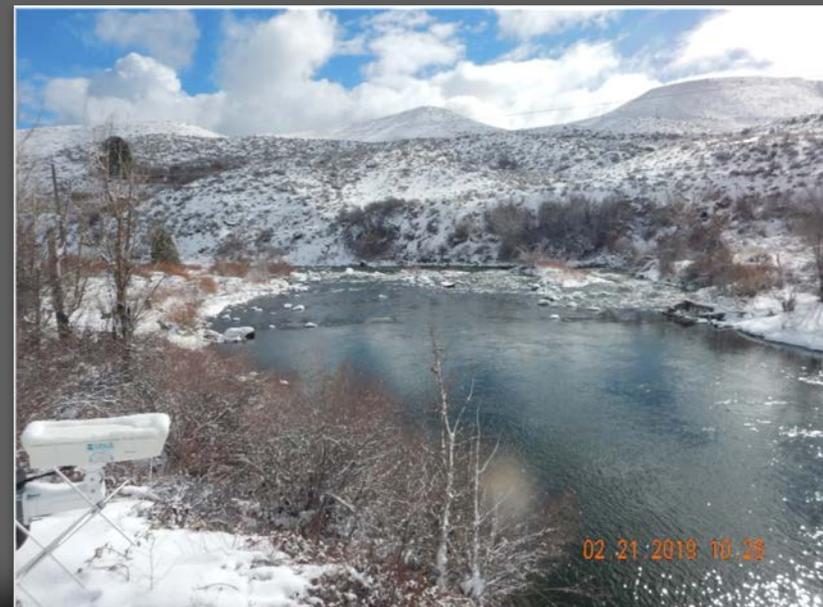
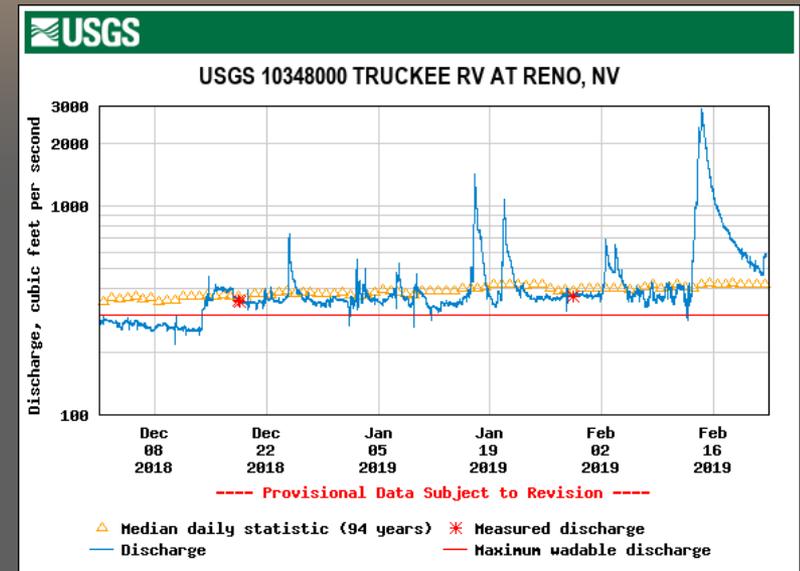


# 10348295 N TRUCKEE DRAIN NR BIG FISH DR NR SPARKS



# New Equipment Deployed

- ➔ 10350000 TRUCKEE RV AT VISTA
- ➔ 10348000 TRUCKEE RV AT RENO
- ➔ 10351600 TRUCKEE RV BLW DERBY DAM NR WADSWORTH
- ➔ 10347460 TRUCKEE RV NR MOGUL
- ➔ 10308200 E FK CARSON RV BLW MARKLEEVILLE CK
- ➔ 10348200 TRUCKEE RV NR SPARKS
- ➔ 10296500 W WALKER RV NR COLEVILLE, CA
- ➔ 10349300 STEAMBOAT CK AT STEAMBOAT
- ➔ 10310000 W FK CARSON RV AT WOODFORDS, CA
- ➔ 2 down south

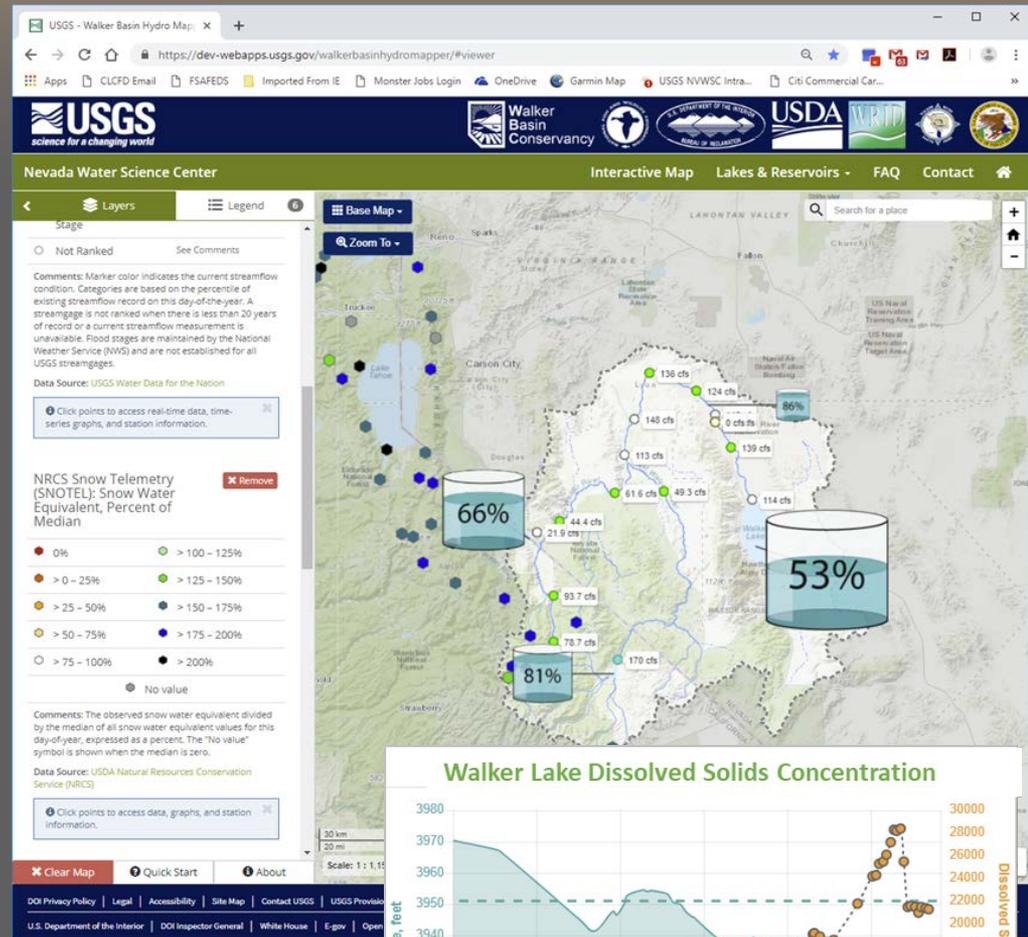


# Walker Basin Hydro Mapper II

- ➔ Current streamflow and storage.
- ➔ New functionality:
  - NRCS SNOTEL data.
  - Interactive hydrographs.
  - Weather warnings and radar.
  - Mobile and tablet platform friendly.
  - Walker Lake TDS.
  - Plus much more.
- ➔ Release date April 1.

Soft release is currently available:

<https://dev-webapps.usgs.gov/walkerbasinhydromapper>



# What???

## It's Already Irrigation Season?

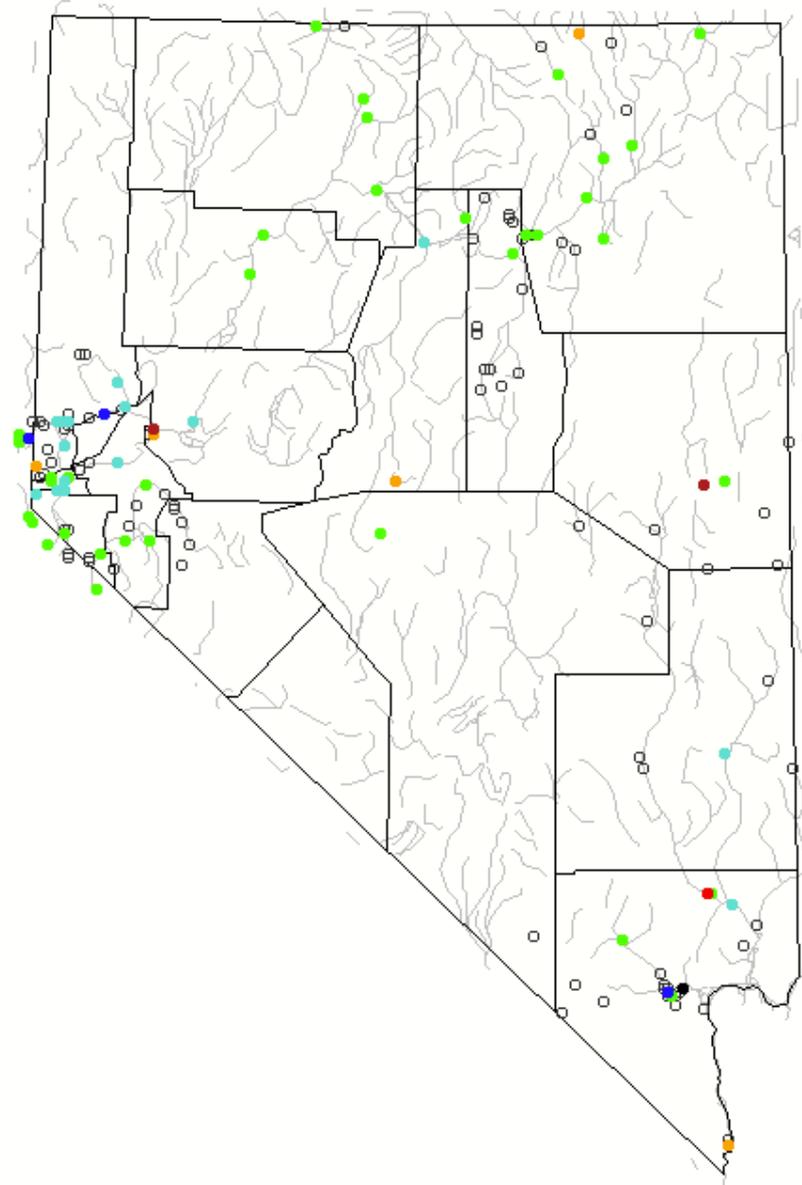
- ⇒ New run-off/snow?
- ⇒ Base flows are relatively high
- ⇒ Irrigation releases: Lahontan, Truckee Canal  
Wadsworth, Lower Walker River
- ⇒ Approval and publication of 2018 data
- ⇒ Annual well run
- ⇒ No warm rain....PLEASE!!!!

# WaterWatch

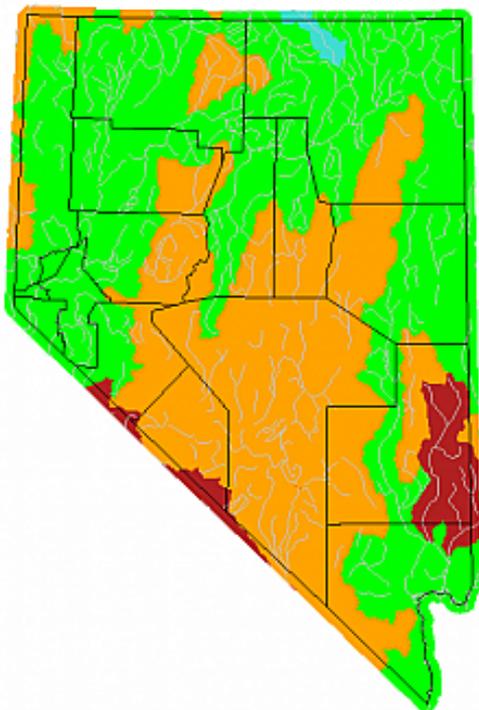
Tuesday, March 12, 2019 09:30ET

Explanation - Percentile classes

							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

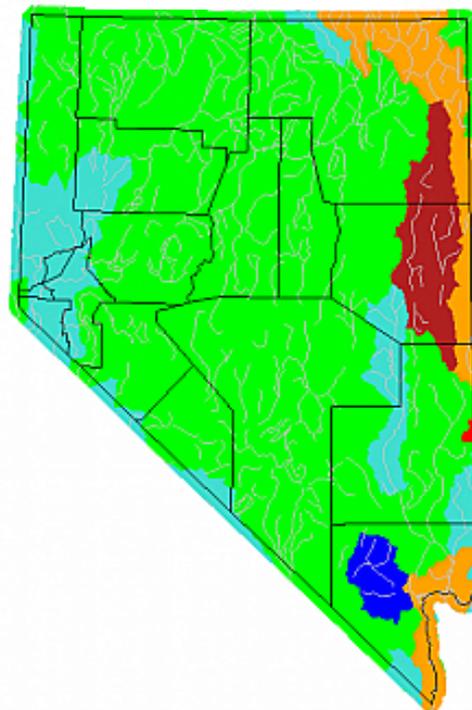


February 2018



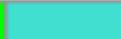
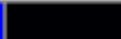
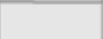
USGS

February 2019



USGS

Explanation - Percentile classes

								
Low	<10	10-24	25-75	76-90	>90	High	No Data	
	Much below normal	Below normal	Normal	Above normal	Much above normal			

# Questions?



## WaterNow



### Current conditions on-demand:

Send an email message to [WaterNow@usgs.gov](mailto:WaterNow@usgs.gov) where either the Subject or the first line of the message contains the USGS Site Number of the gage you want to query (optionally add parameter codes to customize your query). You will receive a response within a few minutes (<http://water.usgs.gov/waternow/>).

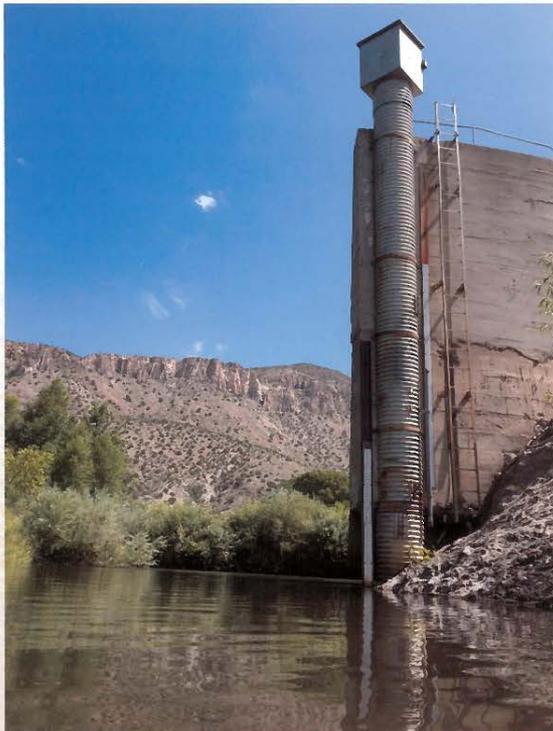


## WaterAlert



### Threshold-triggered notifications:

Sign up for daily or hourly email or text alerts about current water conditions using your thresholds for streamflow, groundwater, water quality, and precipitation at any of the 12,000+ sites where USGS collects real-time water data (<http://water.usgs.gov/wateralert/>).



09430500 Gila River near Gila, New Mexico; Kyle Davis, August 20, 2015

USGS WaterAlert	
<b>Subscription Form</b>	
<b>Site Info:</b>	
Site Number:	07288280
Site Name:	BIG SUNFLOWER RIVER NR MERIGOLD, MS
Agency:	USGS
Transaction ID:	tT8sq
<b>Send Notification To:</b>	<a href="#">about this...</a>
<input type="radio"/> My mobile phone	
<input type="radio"/> My email address	
<b>Notification Frequency:</b>	<a href="#">about this...</a>
Hourly	<input type="radio"/>
Daily	<input checked="" type="radio"/>
<b>Streamflow Data-type</b>	<a href="#">about this...</a>
<b>Parameter:</b>	
Discharge (cfs)	<input type="radio"/> Recent value: 44 <small>[peak chart]</small>
Gage height (ft)	<input checked="" type="radio"/> 4.17 <small>[peak chart]</small>
<b>Threshold Condition:</b>	<a href="#">about this...</a>
<input checked="" type="radio"/> Greater than (>)	Real-time value is greater than: <input type="text"/> ft
<input type="radio"/> Less than (<)	
<input type="radio"/> Outside a range (<> or > and <)	
<input type="radio"/> Inside a range (> and <)	



Twitter: USGS\_Nevada