

River and Reservoir Summary – Google Maps Interface

Product Description Document
California Nevada River Forecast Center (CNRFC)

Part 1 – Mission Connection

1. Product Description:

The “River and Reservoir Summary – Google Maps Interface” utilizes the Google Maps API to display provisional river and reservoir data obtained from automated gages. This river and reservoir data includes stage, flow, and/or storage for the current and previous 3 hours. Each hour worth of data is separated into CNRFC Forecast Points, Other Points, and Reservoirs.

2. Purpose / Intended Use:

This product allows users to view a majority of the river and reservoir gages collected by the CNRFC geographically. This includes over 700 river and reservoir gages stored in the databases at the CNRFC.

3. Audience:

Since this product is available through the CNRFC website, there is a wide spectrum of expected users. Some of these users include: other government agencies and emergency managers, the media, and the general public. The CNRFC is expected to use this interface when monitoring weather and hydrology from and away from the office.

4. Presentation Format:

The “River and Reservoir Summary – Google Maps Interface” will be made available on the CNRFC website. Certain overlays are available to users in order to help locate certain features more easily. These include: CNRFC Area of Responsibility, Counties (OR, CA, and NV), Drainage Basins, and Recent Burn Areas. Also, the user can click on a data point to obtain more information about the station location and data available. To view this interface, visit the following internet link:

http://www.cnrfc.noaa.gov/google_river.php

5. Feedback Method:

Feedback will be obtained from users via the CNRFC Webmaster account. A link to the email address is available on the “River and Reservoir Summary – Google Maps Interface”.

6. Examples:

River and Reservoir Summary - Google™ Maps Interface

Map **Satellite** **Terrain**

Boundaries

- CNRFC Area of Responsibility
- Counties (OR, CA, and NV)
- Drainage Basins
- 2008 Burn Areas
- 2007 Burn Areas

Data Selection

- Current Hour - Forecast Points
- Current Hour - Other Points
- Current Hour - Reservoirs
- 1 Hour Ago - Forecast Points
- 1 Hour Ago - Other Points
- 1 Hour Ago - Reservoirs
- 2 Hours Ago - Forecast Points
- 2 Hours Ago - Other Points
- 2 Hours Ago - Reservoirs
- 3 Hours Ago - Forecast Points
- 3 Hours Ago - Other Points
- 3 Hours Ago - Reservoirs

Clear All Overlays

POWERED BY Google

100 mi / 200 km

Map data ©2009 Tele Atlas - Terms of Use

No Monitor or Flood Stage Available | Normal Conditions | Above Monitor Stage | Above Flood Stage | Above Danger Stage

Last Map Update: Monday February 2 2009 at 11:36 AM PST [Disclaimer](#)

Data Information: River/Reservoir Data Ending 11 AM PST

KML File Downloads

Current Hour - Forecast Pts

Note 1 About Product: This product contains provisional data from automated gages and has not been screened or verified for accuracy.

Note 2 About Product: Some river and reservoir gages may be hidden at zoomed out levels of the map due to a large amount of data being represented. Zoom closer to view all relevant data in specific area of interest.

Note 3 About Product: The location of the river or reservoir gage is represented by the bottom-left corner of the icon.

Alternate Text Product: [CNRFC River Stage Summary - \[Alternate Link\]](#)

Feedback / Comments: Email the [CNRFC Webmaster](#) with your feedback and comments.

Product Description: [Document](#) in .pdf format (requires Adobe® Acrobat Reader).

Figure 1: This image shows the “River and Reservoir Summary – Google Maps Interface” with all of its backgrounds loaded.

River and Reservoir Summary - Google™ Maps Interface

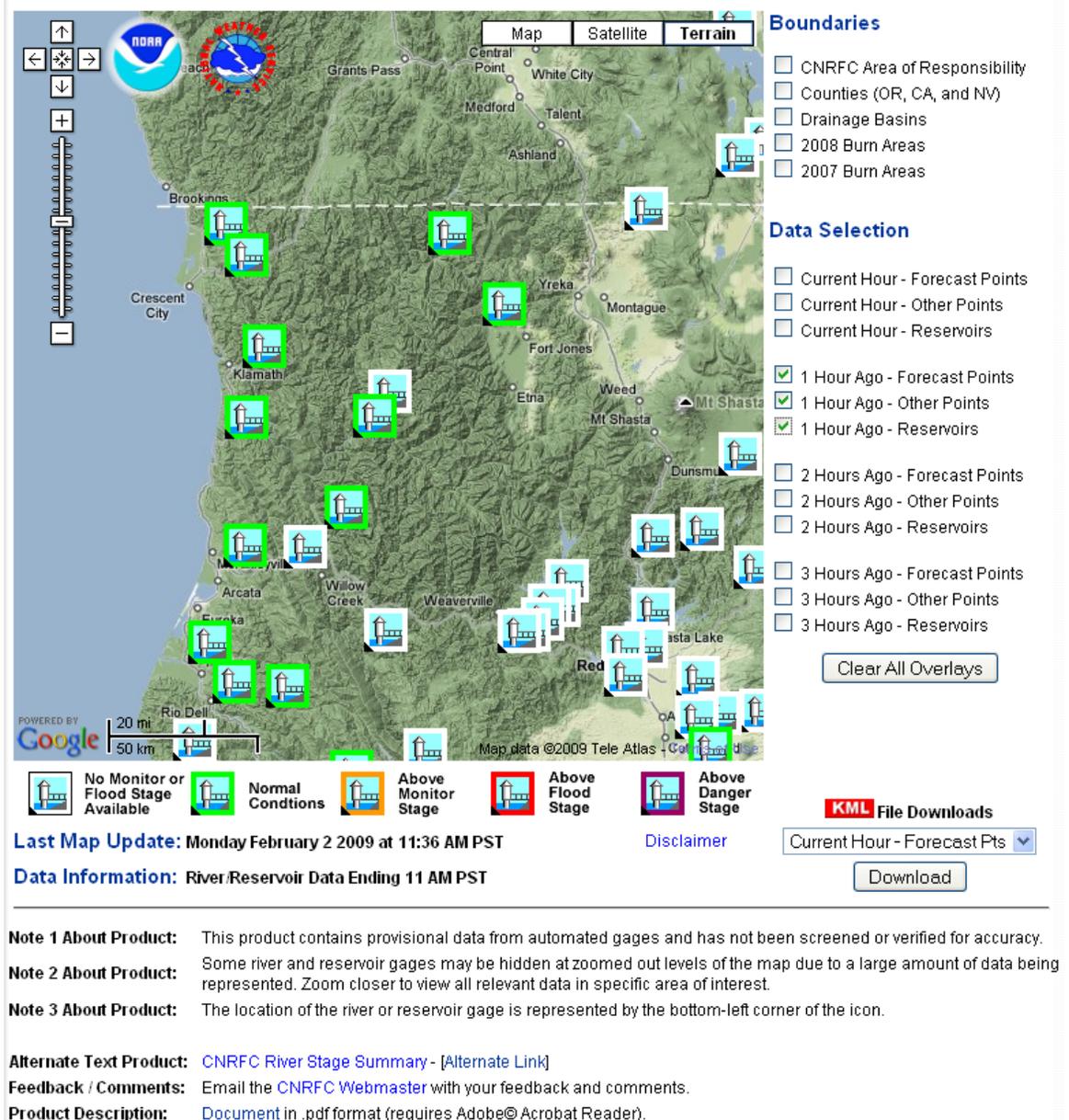


Figure 2: This image shows the “River and Reservoir Summary – Google Maps Interface” with data points loaded. The interface has been zoomed into southwest Oregon and northwest California.

Part 2 – Technical Description

1. Format and Science Basis:

The “River and Reservoir Summary – Google Maps Interface” utilizes the Google Maps API. There is flexibility in how the map appears, and the selections a user can manipulate. The “River and Reservoir Summary – Google Maps Interface” allows the user to select 3 types of map backgrounds. These include: the standard map, the satellite map, and terrain map. Also, the ability to zoom is included. Several backgrounds are also included for toggling by the user, as well.

River and reservoir data are collected from over 700 gages located throughout the CNRFC area of responsibility (and areas just outside the boundary). These are automated gages and data is provisional. There are several types of retrieval for precipitation gages. These include: GOES (Satellite), ALERT (Radio), and Phone Interrogation.

This product is completely automated, and no workload impact is expected.

2. Product Availability:

The river and reservoir data are updated several times per hour, at 16, 26, 36, 46, and 56 minutes past the top of the hour. This ensures that the most river and reservoir gages are included each hour.