CIMIS

California Irrigation Management Information System

2008/05/14

What is CIMIS?

- A network of over 130 fully automated weather stations that collect weather data throughout California and provide estimates of Reference Evapotranspiration (ETo) to the users

Spatial Overview
Spatial Model

View Maps

ETo Map
Solar Radiation Map
Station Location Map
ETo Zones Map

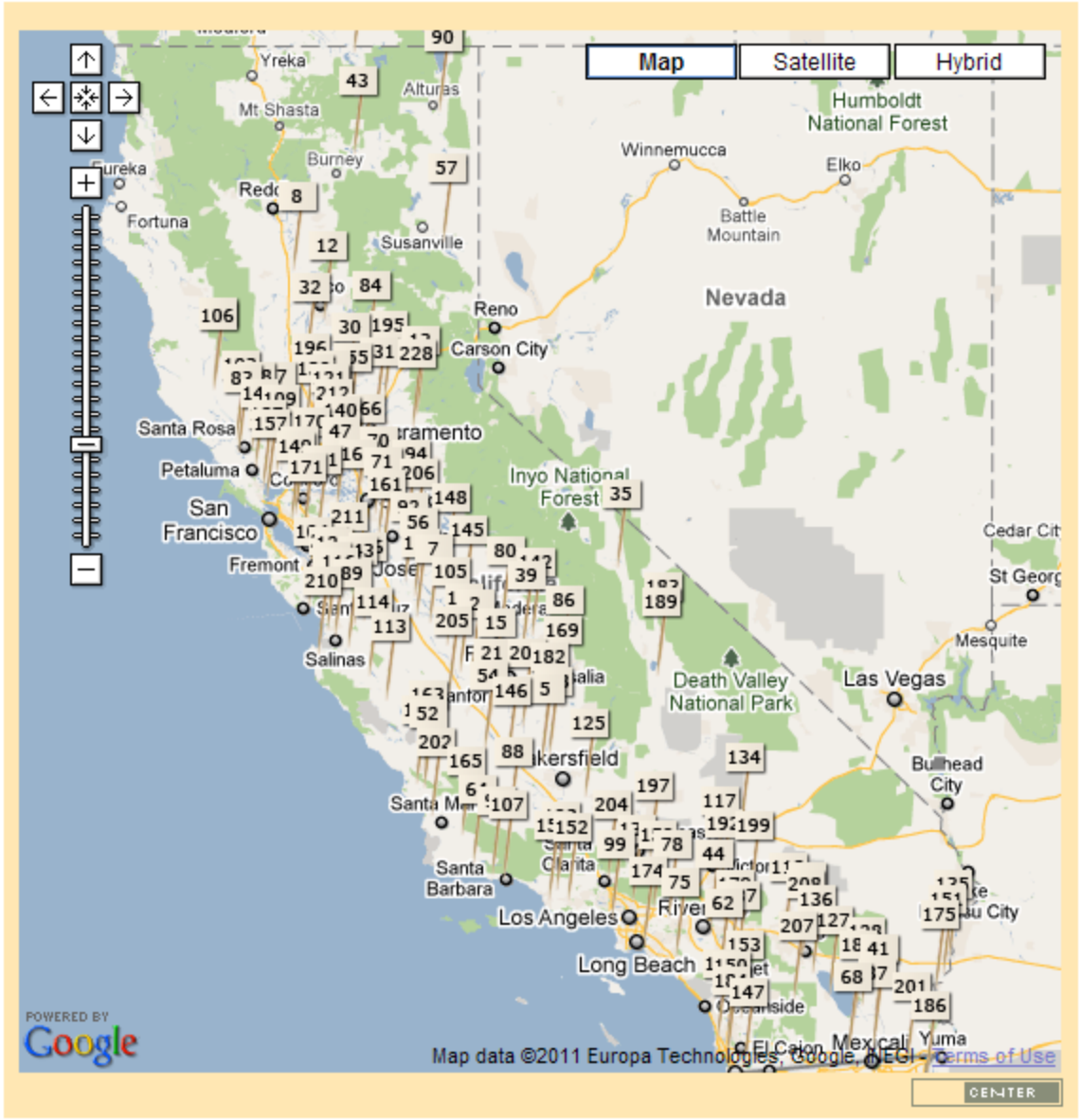
Generate Report

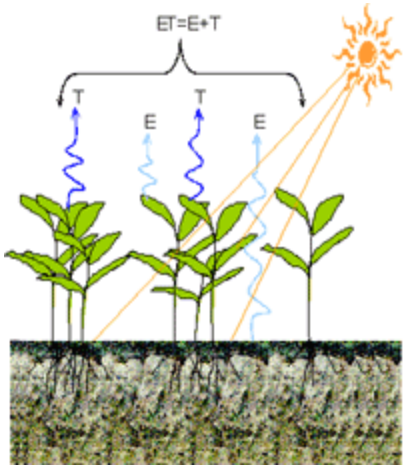
Logon
Map Reports
Map Reports Help

Station Location Map

Map

The Station Location Map is created by overlaying geographic markers for each CIMIS station on top of Google maps. You can zoom in and out to see the exact station locations and you may also click the station marker for more detailed information.





What is CIMIS?

CIMIS calculates estimates of grass reference evapotranspiration (ETo)

Evapotranspiration (ET) is the loss of water to the atmosphere by the combined processes of evaporation (from soil and plant surfaces) and transpiration (from plant tissues). It is an indicator of how much water your crops, lawn, garden, and trees need for healthy growth and productivity.

What is CIMIS?

CIMIS was designed to assist with efficient water and energy use.

CIMIS helps agricultural growers and landscape managers administering parks, golf courses and other landscapes develop water budgets for determining when to irrigate and how much water to apply.

Who uses CIMIS data?

- Growers.
- Consultants.
- Water agencies.
- Public agencies.
- Home owners.
- Researchers.
- Firefighters.
- Investigators

Pyranometer
Anemometer
Wind Vane
Rain Gauge
Temperature/
Relative Humidity
Sensor
Solar Panel
Soil Temperature Probe

PS12 POWER SUPPLY
WITH 12V CHARGING REGULATOR
CAMPBELL SCIENTIFIC INC. Logan, Utah
MADE IN USA
WARNING:
PERMANENT DAMAGE TO RECHARGRABLE CELLS MAY RESULT IF DISCHARGED BELLOW 10.5 VOLTS
FUNCTION
PS12 BATTERY
EXTERNAL BATTERY - DO NOT USE WITH INTERNAL RECHARGEABLE BATTERY
CHARGE VOLTAGE PRESENT
POWER TO +12 TERMINALS
INPUT FROM CHARGER OR SOLAR PANEL 16-28 VDC OR 18 VRMS AC. POSITIVE TO EITHER TERMINAL. NEGATIVE TO OTHER
POWER TO DATALOGGERS OR 12V PERIPHERALS
CAMPBELL SCIENTIFIC INC. Logan UT.
COM200 MODEM
SN: 6120
MADE IN USA
EARTH GROUND

How does CIMIS work?

- Dataloggers poll the sensors every minute.
- Solar radiation (Rs), air temperature (Ta), wind speed (U2), and Relative Humidity (RH) data is collected. Additionally precipitation (P), soil temperature (Ts) and wind direction are measured.
- Sixty minute-by-minute readings are averaged/totaled.

How does CIMIS work?

- Daily maximum, minimum, average, and total values are calculated by the end of each day.
- Hourly and daily values are stored in the dataloggers.
- The CIMIS computer calls stations every 6 hours and retrieves data.
- Data goes through quality control (QC) procedures.
- Measured and calculated parameters are stored in the CIMIS database.
- Reference evapotranspiration (ETo) is calculated.
- Final data is posted on the CIMIS website.

http://wwwcimis.water.ca.gov/cimis/data.jsp

Welcome Back DWR-SAN

Log Off
Hourly
Daily
Daily ETo Variance
Monthly
Monthly Average ETo

Quality Control

QC Overview
Current Flag Summary
Current Hourly Flags
Current Daily Flags
Former Flag Summary
Former Hourly Flags
Former Daily Flags

More Info

Station List
Data Types
Data Formats
Data Size

CIMIS Data

The **CIMIS Data** page enables users to:

- View daily and monthly sample reports;
- Create and edit a user account;
- Retrieve CIMIS data;
- Read important information on CIMIS quality control;
- Read detailed information on CIMIS data types, formats, and sizes;
- View the weather station list.

CIMIS data can be accessed and retrieved free of charge. Although membership is not a requirement, access to data for Unregistered Users is limited to the Sample Reports. Registered Users have the privilege of accessing the entire CIMIS data set. Registration information is confidential and used by CIMIS staff for statistical reports and to provide better services. Therefore, we encourage users to register and create a CIMIS user account.

Note: CIMIS Date Ranges defaults to seven days (starting from yesterday) for hourly and daily reports, and twelve months (starting from last month) for monthly reports. These defaults can be changed by going into the My CIMIS tab and changing your preferences. These new preferences will become your defaults for all data reports generated afterwards, from both the Data and My CIMIS tabs.

Welcome Back DWR-SAN

Log Off	Clicking on **Log Off** will disconnect your computer from the CIMIS database.
Hourly	**Hourly** provides standard hourly and hourly by sensor data reports for selected weather station(s) and date range specified.
Daily	**Daily** provides standard daily and daily by sensor data reports for selected weather station(s) and date range specified.
Daily ETo Variance	The **Daily ETo Variance** provides a comparative report of ETo variance for selected station(s) and date range specified.
Monthly	**Monthly** provides standard monthly data reports for the weather station(s) and date

Daily Report - Windows Internet Explorer
http://wwwcimis.water.ca.gov/cimis/dailyReport.do
File Edit View Favorites Tools Help
Google Search Share Check Translate AutoFill
National Weather Service - N... Daily Report

CIMIS (California Irrigation Management Information System)

Daily Report

Rendered in English Units.
April 6, 2011 - April 12, 2011
Printed on April 13, 2011

FivePoints - San Joaquin Valley - Station 2

Date	CIMIS ETo (in)	Precip (in)	Sol Rad (Ly/day)	Avg Vap (mBars)	Max Air Temp (°F)	Min Air Temp (°F)	Avg Air Temp (°F)	Max Rel Hum (%)	Min Rel Hum (%)	Avg Rel Hum (%)	Dew Pt (°F)	Avg wSpd (MPH)	Wnd Run (miles)	Avg Soil Temp (°F)
04/06/2011	0.24	0.25	546	9.2	75.5	49.5	62.0	76	26	48	42.2	10.5	254.3	60.9
04/07/2011	0.05 R	0.30	182	8.2	53.9 Y	35.5 Y	47.4	94	48	74	39.4	7.0	168.8	59.6
04/08/2011	0.10	0.01	413	7.0	55.4 Y	34.9 Y	43.5	97	41	72	35.3	5.1	123.9	57.1
04/09/2011	0.17	0.00	553	7.0	63.4	34.2 Y	49.3	92	34	58	35.3	5.0	119.5	56.5
04/10/2011	0.17	0.00	557	7.4	68.6	36.3	52.5	87	31	55	36.8	3.9	94.8	57.1
04/11/2011	0.17	0.00	490	9.0	67.7	45.6	55.0	80	39	61	41.9	7.7	186.8	57.7
04/12/2011	0.18	0.00	557	9.4	71.0	43.8	56.4	86	39	60	42.9	6.1	146.9	58.4
Tots/Avgs	1.08	0.56	471	8.2	65.1	40.0	52.3	87	37	61	39.1	6.5	156.4	58.2

Flag Legend		
A - Historical Average	I - Ignore	R - Far out of normal range
C or N - Not Collected	M - Missing Data	S - Not in service
H - Hourly Missing or Flagged Data	Q - Related Sensor Missing	Y - Moderately out of range
Conversion Factors		
Ly/day/2.065=W/sq.m	inches * 25.4 = mm	(F-32) * 5/9 = c
mph * 0.447 = m/s	mBars * 0.1 = kPa	--

Done

Hourly Report - Windows Internet Explorer
http://wwwcimis.water.ca.gov/cimis/hourlyReport.do
File Edit View Favorites Tools Help
Google Search Share Check Translate AutoFill
Hourly Report

Hourly Report

Rendered in METRIC Units.
April 6, 2011 - April 12, 2011
Printed on April 13, 2011

FivePoints - San Joaquin Valley - Station 2

Date	Hour	ETo (mm)	Precip (mm)	Sol Rad (W.sq.m)	Vapor Pressure (kPa)	Air Temp (°C)	Rel Hum (%)	Dew Point (° C)	Wind Speed (m/s)	Wind Dir (0-360)	Soil Temp (°C)
04/06/2011	0100	0.02	0.00	0	1.1	13.7	69	8.0	3.4	307.6	16.3
	0200	0.02	0.00	0	1.0	13.2	69	7.7	3.9	304.5	16.2
	0300	0.02	0.00	0	1.0	13.8	63	6.9	3.4	293.1	16.1
	0400	0.01	0.00	0	1.0	12.8	65	6.4	2.9	284.7	16.0
	0500	0.02	0.00	0	0.9	12.1	65	5.8	3.7	294.7	15.9
	0600	0.01	0.00	3	0.9	10.2	74	5.8	4.2	303.6	15.8
	0700	0.06	0.00	121	1.0	10.6	76	6.6	3.7	304.3	15.7
	0800	0.20	0.10	303	1.0	15.0	59	6.9	3.5	298.6	15.6
	0900	0.37	0.70 Y	485	1.0	16.6	53	7.1	5.7	311.8	15.5
	1000	0.50 Y	1.20 Y	643	1.0 Y	17.8	49 Y	6.9 Y	6.0	321.3	15.5
	1100	0.61 Y	1.00 Y	759	1.0 Y	19.1	45 Y	6.9 Y	6.1	311.8	15.5
	1200	0.67	0.70 Y	824	1.0	20.5	43	7.4	5.9	314.2	15.5
	1300	0.71 Y	1.00 Y	828	0.9 Y	21.8	35 Y	5.5 Y	5.9	313.9	15.6
	1400	0.67 Y	1.40 Y	769	0.9 Y	22.3	34 Y	5.8 Y	5.7	324.7	15.7
	1500	0.60	0.30 Y	659	0.9	23.5	30	4.7	5.4	328.0	16.0
	1600	0.49	0.00	501	0.8	23.9	27	4.0	5.3	341.5	16.2
	1700	0.37	0.00	318	0.8	23.3	26	2.9	5.6	347.0	16.4
	1800	0.22	0.00	133	0.8	21.8	31	3.9	4.8	346.1	16.5
	1900	0.12	0.00	8	0.8	18.9	37	4.0	5.2	325.0	16.6
	2000	0.09	0.00	0	0.8	16.5	45	4.5	4.9	313.5	16.6
	2100	0.07	0.00	0	0.9	15.1	52	5.4	4.9	313.7	16.6
	2200	0.05	0.00	0	0.8	13.8	53	4.3	4.0	318.1	16.6
	2300	0.06	0.00	0	0.8	12.8	54	3.7	5.0	325.1	16.5
	2400	0.04	0.00	0	0.8	11.9	58	3.8	3.8	331.8	16.4
Tots/Avgs		6.00	6.40	265	0.9	16.7	51	5.6	4.7	315.8	16.1

Done

Whats new?

Hourly data updated every 6 hours

Spatial CIMIS

My CIMIS

Email scheduler

CIMIS

CALIFORNIA IRRIGATION MANAGEMENT INFORMATION SYSTEM
DEPARTMENT OF WATER RESOURCES
OFFICE OF WATER USE EFFICIENCY

Welcome Back DWR-SAN

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Hourly
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Daily ETo Variance
Monthly
Monthly Average ETo

Quality Control

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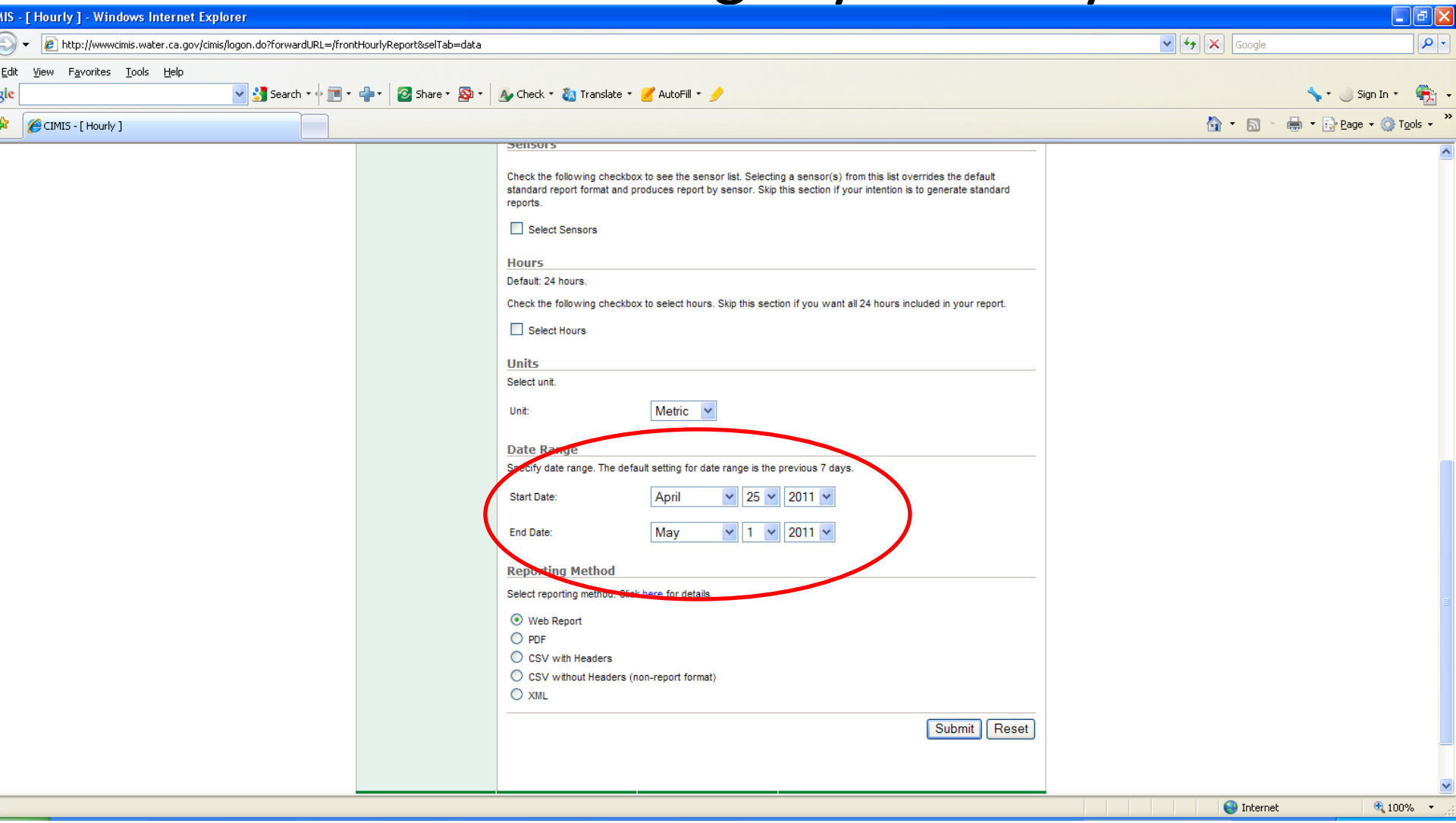
Hourly	**Hourly** provides standard hourly and hourly by sensor data reports for selected weather station(s) and date range specified.

Necessary to select the end date as today's date. Default setting is yesterday's date.



Hourly Report - Windows Internet Explorer
http://wwwcimis.water.ca.gov/cimis/hourlyReport.do
File Edit View Favorites Tools Help
Google Search Share Check Translate AutoFill Sign In
Hourly Report
Page Tools

	1800	0.25	0.00	198	0.5	24.1	15	-3.9	3.5	311.9	16.1
	1900	0.09	0.00	26	0.5	20.7	21	-2.7	2.0	322.0	16.2
	2000	0.04	0.00	0	0.5	16.9	28	-1.6	1.4	319.4	16.3
	2100	0.05	0.00	0	0.5	13.6	34	-2.1	2.2	254.5	16.3
	2200	0.04	0.00	0	0.5	13.2	33	-2.9	1.9	255.1	16.2
	2300	0.03	0.00	0	0.5	11.2	36	-3.2	1.6	191.8	16.1
	2400	0.02	0.00	0	0.5	9.2	44	-2.6	1.6	180.3	16.0
Tots/Avgs		6.82	0.00	311	0.5	16.3	30	-2.5	2.8	273.0	15.5

FivePoints - San Joaquin Valley - Station 2

Date	Hour	ETo (mm)	Precip (mm)	Sol Rad (W.sq.m)	Vapor Pressure (kPa)	Air Temp (°C)	Rel Hum (%)	Dew Point (° C)	Wind Speed (m/s)	Wind Dir (0-360)	Soil Temp (°C)
05/02/2011	0100	0.02	0.00	0	0.5	8.8	46	-2.1	1.8	174.8	15.9
	0200	0.01	0.00	0	0.5	7.9	50	-1.9	1.3	198.8	15.8
	0300	0.01	0.00	0	0.6	7.4	53	-1.4	1.3	226.2	15.7
	0400	0.01	0.00	0	0.5	6.7	50	-3.0	1.2	209.0	15.5
	0500	0.01	0.00	0	0.5	6.0	52	-3.2	1.2	220.5	15.4
	0600	0.02	0.00	42	0.5	6.3	57	-1.5	1.0	125.9	15.3
	0700	0.11	0.00	209	0.7	11.8	48	1.2	0.8	168.9	15.2
	0800	0.24	0.00	397	0.7	17.3	37	2.3	0.8	118.1	15.1
	0900	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	1000	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	1100	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	1200	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	1300	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	1400	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	1500	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	1600	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	1700	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	1800	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	1900	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	2000	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	2100	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	2200	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	2300	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
	2400	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M	-- M
Tots/Avgs		0.43	0.00	81	0.6	9.0	49	-1.2	1.2	180.3	15.5

Done Internet 100%

Spatial cimis

wwwcimis.water.ca.gov/cimis/cimiSatModel.jsp

Spatial CIMIS

- Because of California's diverse landmass and climate, many locations within the state lack a representative CIMIS station
- CIMIS initiated a project with the UC Davis to explore the potential for using remotely sensed data for the estimation of ETo (to mitigate the spatial data gap).
- Geostationary Operational Environmental Satellites (GOES) were selected..

- The Department of Water Resources (DWR) formed an advisory committee comprised of individuals with expertise in remote sensing, GIS, modeling, and water management from DWR and UCD. The committee met, on an as needed basis, to discuss new developments and plan future actions. After thorough research, the team decided to use combinations of data derived from satellites and interpolated between CIMIS station measurements to estimate ETo at a 2 km spatial resolution.

- Daily reference evapotranspiration (ETo) at 2 km spatial resolution was calculated statewide using the American Society of Civil Engineers version of the Penman-Monteith equation (ASCE-PM). Required input parameters for the ASCE-PM ETo equation are solar radiation (Rs), air temperature (Ta), relative humidity (RH), and wind speed at two meters height (U2). These parameters are estimated at each pixel (2 km square grid) using various methods.

- Daily Rs (solar radiation) is generated from the visible band of the National Oceanic and Atmospheric Administration's (NOAA) Geostationary Operational Environmental Satellite (GOES) using the Heliosat-II model.

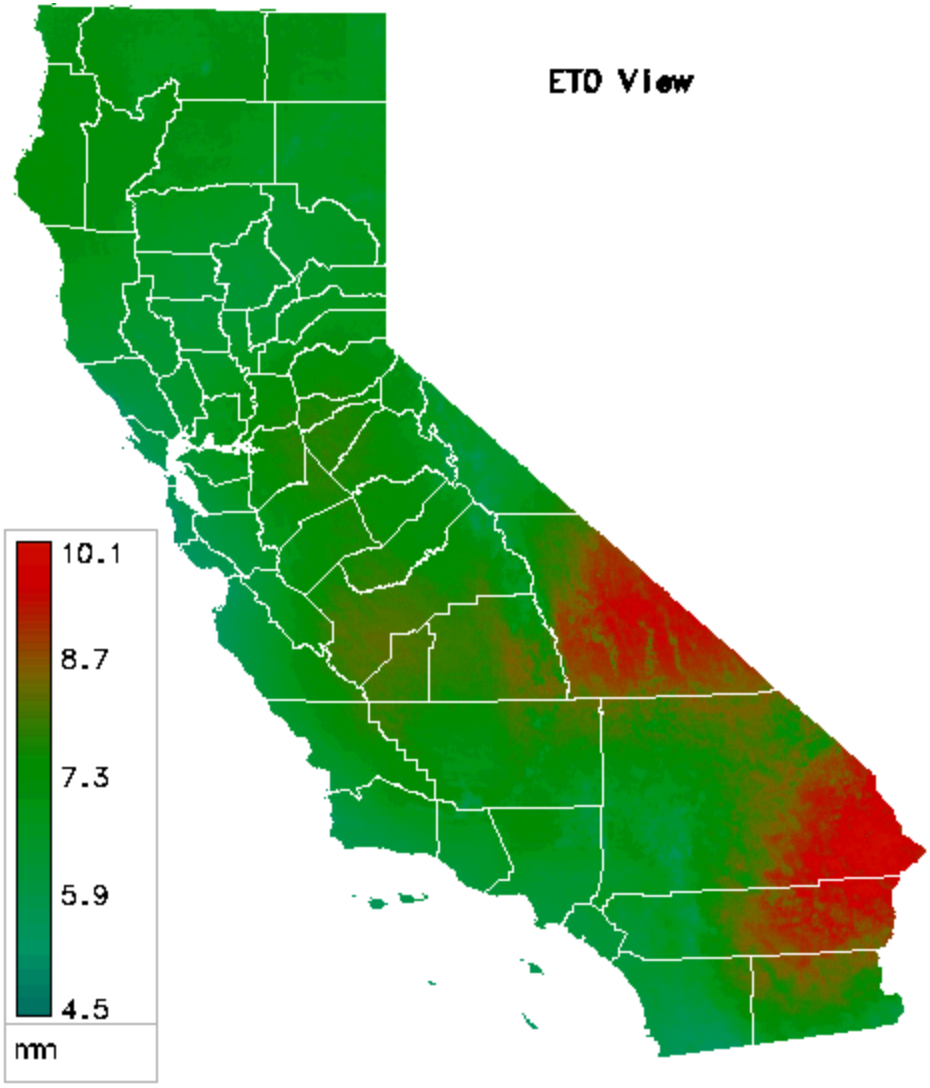
- Air temperature, relative humidity, and wind speed values at each pixel were obtained by interpolating between point measurements from the CIMIS stations. Two interpolation methods, DayMet and Spline, were selected based on accuracy of results, code availability, and computational efficiency.

- Daily Rs – from GOES
- Air Temperature (Ta), Relative Humidity (RH), Wind speed (U2) collected from CIMIS weather stations. (Interpolated)

- Spatial CIMIS ET_o

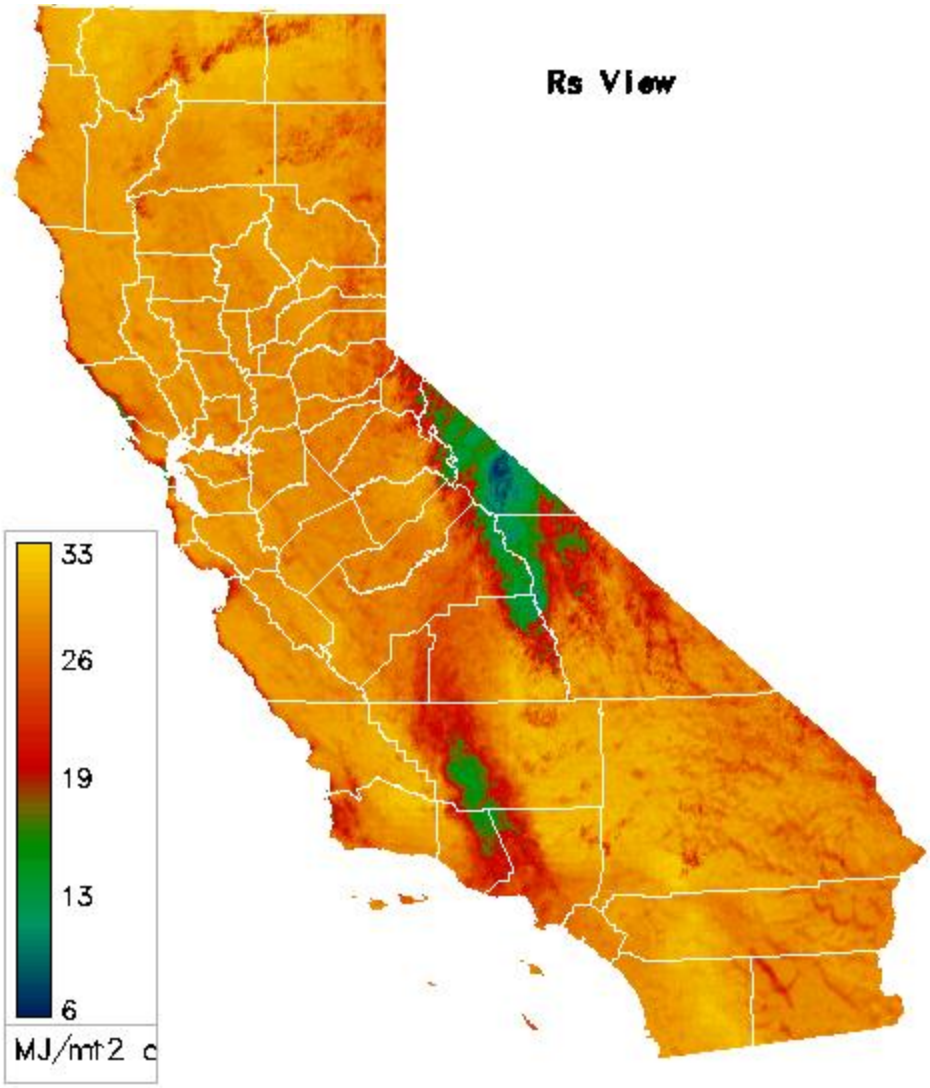
Daily CIMIS ET_o Map

July 15, 2010

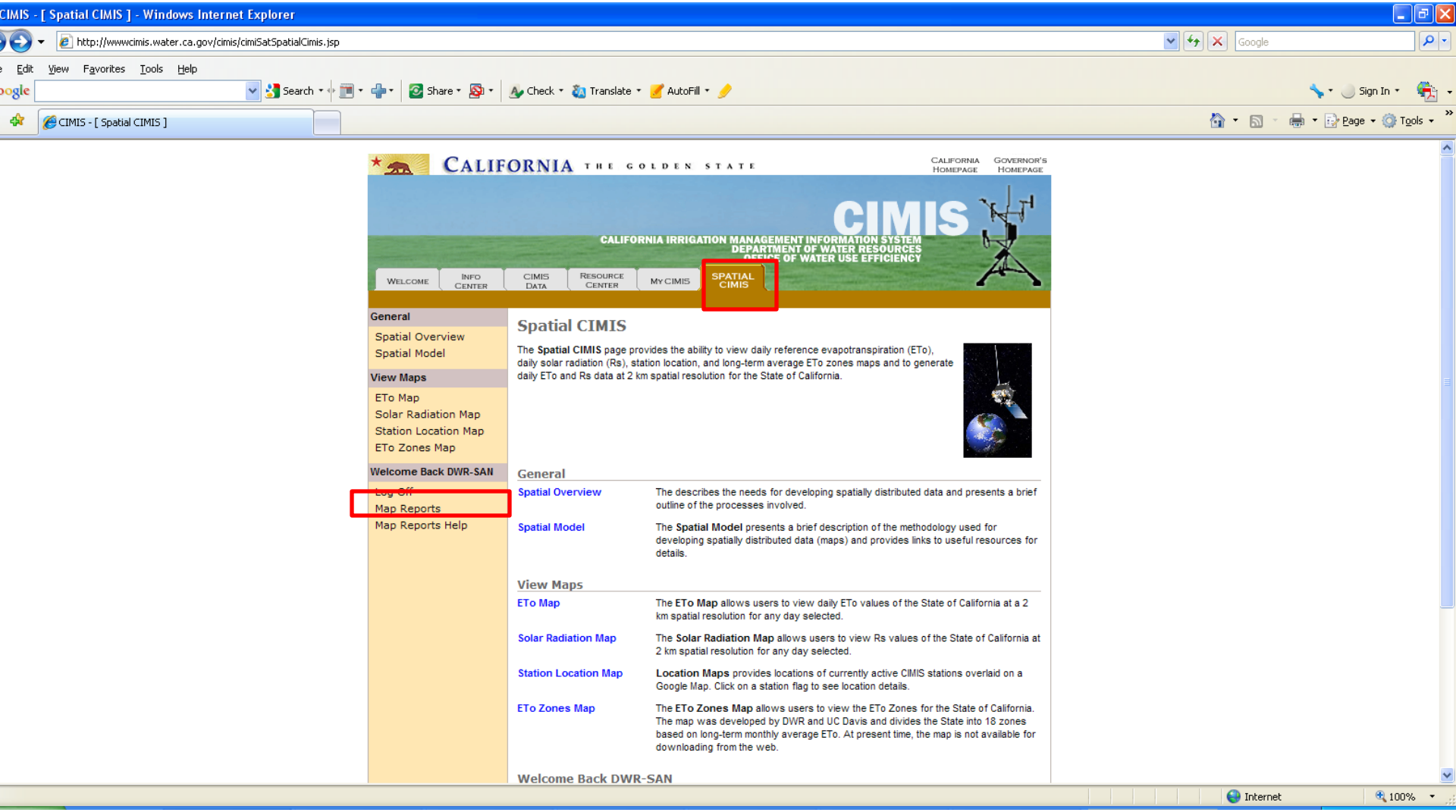


Daily solar radiation map

July 16, 2010



Spatial CIMIS Map Report



CIMIS - [Map Reports] - Windows Internet Explorer
http://wwwcimis.water.ca.gov/cimis/logon.do?forwardURL=/frontCimiSatReport&selTab=cimisat
File Edit View Favorites Tools Help
Google Search Share Check Translate AutoFill Sign In
CIMIS - [Map Reports] National Weather Service - N... Page Tools

Map Reports

This report will provide reference evapotranspiration (ETo) and Solar Radiation (Rs) data reports at a 2km spatial resolution. Reports can be queried using a Google maps interface or by zip codes.

For brief descriptions of variations in zip code reports, renaming selected data points, and scheduling Email delivery, Click Here. Please select your method below:

Need Help?

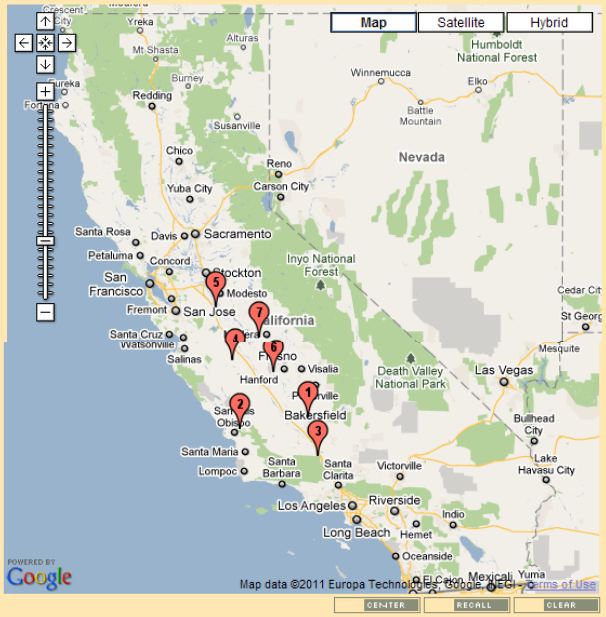
Query Type

Specify how you will designate points of interest. **Map Coordinates** allows you to select map-markers using point-and-click or the address search feature. **Zip Code(s)** allows you to specify from one to many zip codes.

(•) Map Coordinates ( ) Zip Code(s)

Map

Address Search



Coordinate Names

1.	Old home place	2.	Paso Robles
3.	EMHE house	4.	Almond test site
5.	Mr Heintz	6.	JD man
7.	LG house	8.	(empty)
9.	(empty)	10.	(empty)

( ) No Delivery
(•) Email Report Daily
( ) Email Report Weekly (Monday Delivery)

Save

CIMIS - [Map Reports] - Windows Internet Explorer

http://wwwcimis.water.ca.gov/cimis/logon.do?forwardURL=/frontCimiSatReport&selTab=cimisat

File Edit View Favorites Tools Help

CIMIS - [Map Reports] | National Weather Service - N...

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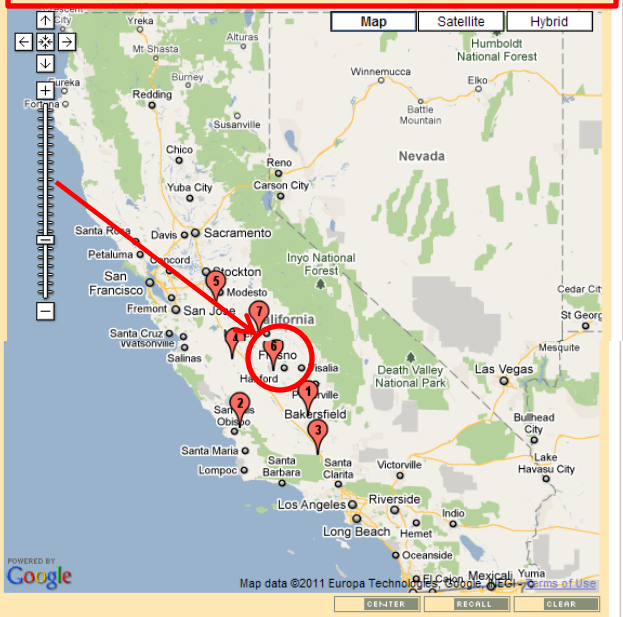

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9.	(empty)	10.	(empty)

( ) No Delivery
(•) Email Report Daily
( ) Email Report Weekly (Monday Delivery)

Save

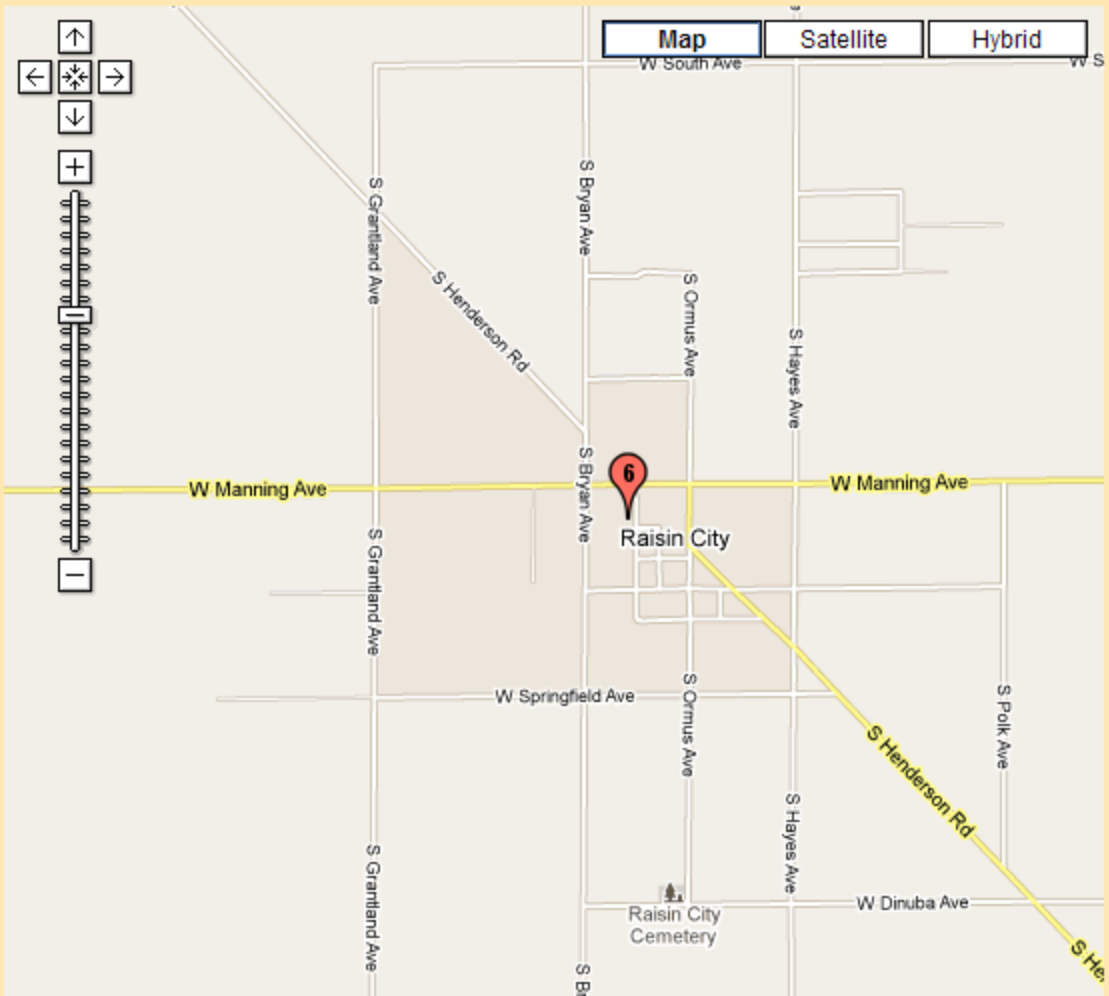
ontCimiSatReport&selTab=cimisat

Share Check Translate AutoFill

Map Reports Help

Map

Address Search



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9.	(empty)	10.	(empty)

- ○ No Delivery
- ◉ Email Report Daily
- ○ Email Report Weekly (Monday Delivery)

Save

Units

Select unit.

Unit: Metric

Or english

Date Range

Specify date range. The default setting for date range is the previous 7 days.

Start Date: April 20 2011

End Date: April 26 2011

Reporting Method

Select reporting method. Click here for details.

- ◉ Web Report
- ○ CSV with Headers
- ○ XML

Submit Reset

Spatial CIMIS Report - Windows Internet Explorer
http://wwwcimis.water.ca.gov/cimis/cimiSatReport.do
File Edit View Favorites Tools Help
Google Search Share Check Translate AutoFill
Spatial CIMIS Report
Communications: Wireless, r...

Point #1 - (35.8594, -119.2059)

Date	ETo (in/day)	Rs (Ly/day)
07/14/2010	0.28	690.77
07/15/2010	0.30	686.21
07/16/2010	0.26	564.07
Totals/Avgs	0.84	647.02

Point #2 - (35.6595, -120.5750)

Date	ETo (in/day)	Rs (Ly/day)
07/14/2010	0.27	720.89
07/15/2010	0.29	713.69
07/16/2010	0.29	703.92
Totals/Avgs>	0.84	712.83

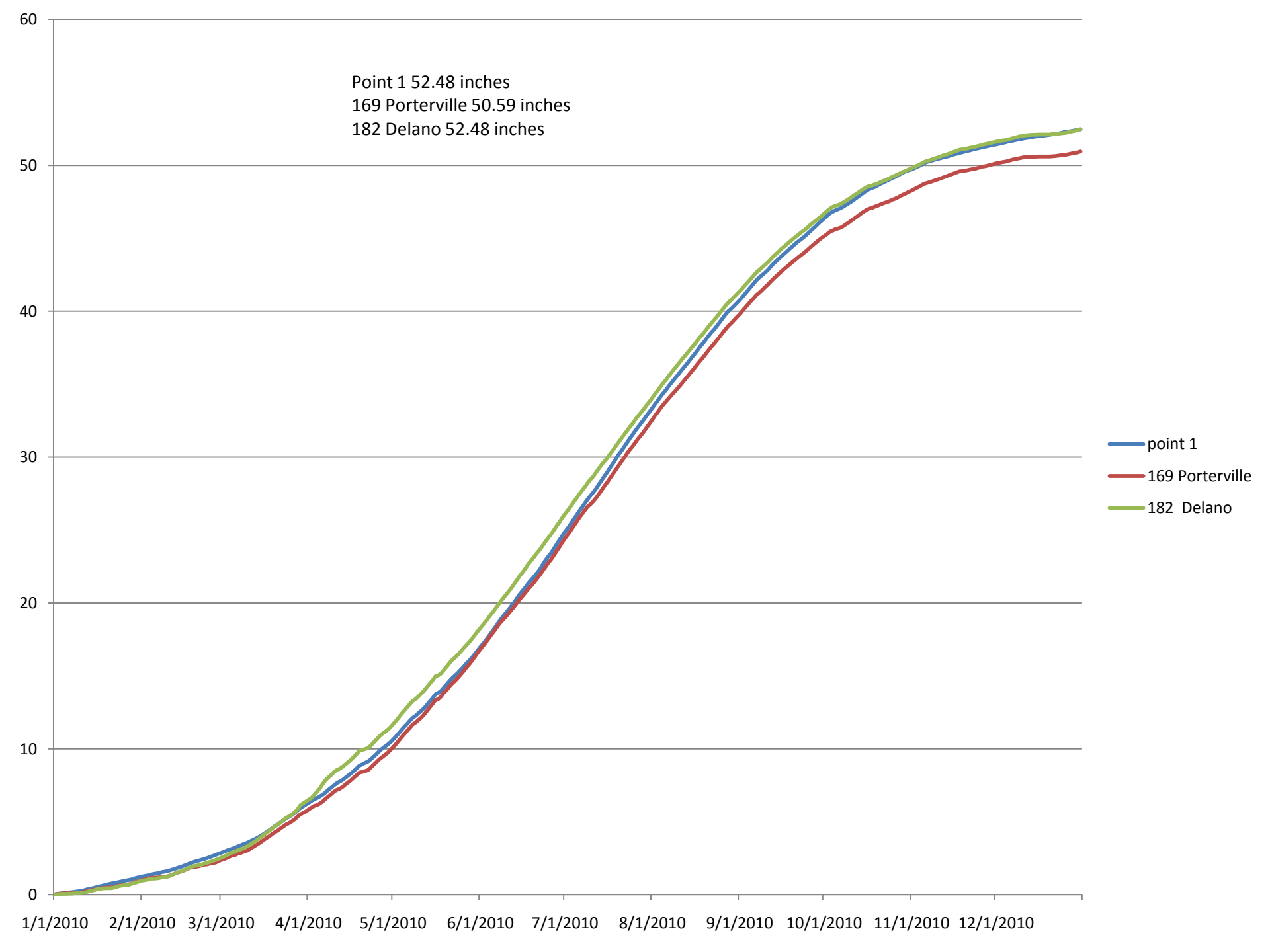
Point #3 - (35.2170, -119.0033)

Date	ETo (in/day)	Rs (Ly/day)
07/14/2010	0.26	690.65
07/15/2010	0.27	688.84
07/16/2010	0.21	409.64
Totals/Avgs	0.75	596.38

Point #4 - (36.7832, -120.7455)

Date	ETo (in/day)	Rs (Ly/day)
07/14/2010	0.28	705.06
07/15/2010	0.29	668.94
07/16/2010	0.30	654.09
Totals/Avgs	0.87	676.03

Point	Lat	Long	Date	CIMIS ETo (in) (in/day)	Sol Rad (Ly/day)
1	35.86	-119.21	7/14/2010	0.28	690.77
1	35.86	-119.21	7/15/2010	0.3	686.21
1	35.86	-119.21	7/16/2010	0.26	564.07
2	35.66	-120.58	7/14/2010	0.27	720.89
2	35.66	-120.58	7/15/2010	0.29	713.69
2	35.66	-120.58	7/16/2010	0.29	703.92
3	35.22	-119	7/14/2010	0.26	690.65
3	35.22	-119	7/15/2010	0.27	688.84
3	35.22	-119	7/16/2010	0.21	409.64
4	36.78	-120.75	7/14/2010	0.28	705.06
4	36.78	-120.75	7/15/2010	0.29	668.94
4	36.78	-120.75	7/16/2010	0.3	654.09
5	37.71	-121.14	7/14/2010	0.27	689.35
5	37.71	-121.14	7/15/2010	0.29	688.81
5	37.71	-121.14	7/16/2010	0.29	681.51
6	36.6	-119.91	7/14/2010	0.3	688.66
6	36.6	-119.91	7/15/2010	0.32	687.96
6	36.6	-119.91	7/16/2010	0.32	681.71
7	37.24	-120.26	7/14/2010	0.29	684.39
7	37.24	-120.26	7/15/2010	0.3	690.48
7	37.24	-120.26	7/16/2010	0.31	652.22


Point 1 52.48 inches
169 Porterville 50.59 inches
182 Delano 52.48 inches
60
50
40
30
20
10
0
1/1/2010
2/1/2010
3/1/2010
4/1/2010
5/1/2010
6/1/2010
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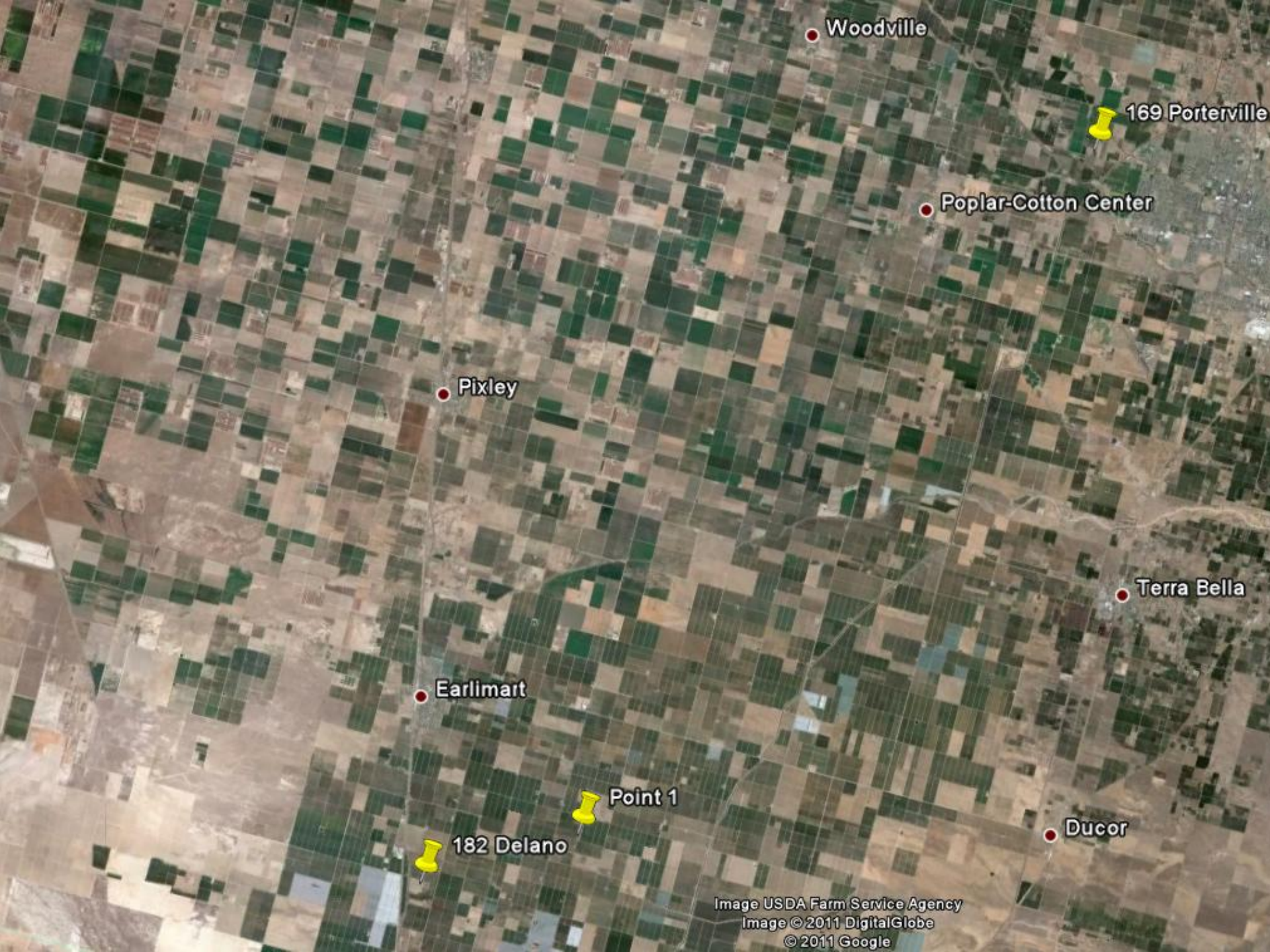
12/1/2010
point 1
169 Porterville
182 Delano


Woodville
169 Porterville
Poplar-Cotton Center
Pixley
Terra Bella
Earlimart
Point 1
182 Delano
Ducor
Image USDA Farm Service Agency
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My CIMIS

] - Windows Internet Explorer

//wwwcimis.water.ca.gov/cimis/myCimis.jsp

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My CIMIS]

CALIFORNIA THE GOLDEN STATE

CALIFORNIA HOMEPAGE | GOVERNOR'S HOMEPAGE

CIMIS

CALIFORNIA IRRIGATION MANAGEMENT INFORMATION SYSTEM
DEPARTMENT OF WATER RESOURCES
OFFICE OF WATER USE EFFICIENCY

WELCOME | INFO CENTER | CIMIS DATA | RESOURCE CENTER | MY CIMIS | SPATIAL CIMIS

Account Management

Logon
Registration

My CIMIS

My CIMIS provides simple single-click reporting. You can customize your own profile including selecting report preferences, develop custom reports, and create station lists preferences. My CIMIS will keep track of this profile for your next visit.

If you have not yet created a user account, click on the Registration link below and create an account by completing a brief registration form. After creating a CIMIS user account, you are ready to enjoy the ease and convenience of My CIMIS. Registered CIMIS users can simply click on Logon and enter User Name and Password. Once logged in, users can mange their user account, including changing the password.

Account Management

Logon — The **Logon** page allows you to access the CIMIS database by entering your user name and password. You will be disconnected from the CIMIS database if there is no activity for 10 consecutive minutes.

Registration — **Registration** allows users to create their own user names and passwords. Personal information of members will not be compromised in any way and is used for statistical purposes only. You can edit your Registration and change your password in the My CIMIS Tab.

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Internet

s Internet Explorer
.ca.gov/cimis/logon.do?forwardURL=/frontMyReport&selTab=my.cimis
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CALIFORNIA IRRIGATION MANAGEMENT INFORMATION SYSTEM
DEPARTMENT OF WATER RESOURCES
OFFICE OF WATER USE EFFICIENCY

Welcome Back DWR-SAN
My Reports
My Station Lists
My Preferences

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My Reports

The **My Reports** allows you to perform single-click reporting, select report preferences, and prepare custom reports. There are three station lists (List 1, List 2, and List 3) and each list can hold up to a maximum of 10 stations. A list must contain at least one station before executing reports from this page. You can add and remove station(s) from the list by clicking on Create/Change Station Lists and clicking on Remove. Once a list has been created, clicking on a station number will provide detailed information about the station.

After specifying Station Lists, you can generate a report in any one of the report options listed under Quick Reports by clicking on the list number to the right (list 1, list 2, or list 3). These reports are generated using the Preferences listed at the bottom of the Station Lists. Preferences for Quick Reports can be changed by clicking on Change Preferences at the bottom of the Station Lists. Custom reports allows the user to select the options (climatic parameters), to be reported.

Quick Reports

Report Options	
Standard Hourly (using prefs)	list 1 | list 2 | list 3
Standard Daily (using prefs)	list 1 | list 2 | list 3
Standard Daily ETo Variance (using prefs)	list 1 | list 2 | list 3
Standard Monthly (using prefs)	list 1 | list 2 | list 3
Standard Monthly Average ETo (using prefs)	list 1 | list 2 | list 3

My Custom Reports

Report Options	
sewert	list 1 | list 2 | list 3 | customize
sewert2	list 1 | list 2 | list 3 | customize
sewert3	list 1 | list 2 | list 3 | customize
sewert4	list 1 | list 2 | list 3 | customize

Tip: Custom reports allow you to name your own very specific report styles. You can choose the report type, unit, date range, and even the fields that will appear in your report. Property values specified as "report preferences" will not be used in custom reports.

My Station Lists

List 1	List 2	List 3
056	002	005
071	007	015
092	033	021
148	039	054
155	080	125
161	086	138
166	105	146
167	124	169
168	142	182
--	145	190

Create/Change Station Lists

My Preferences

Name	Value
Zip Codes	95616
Units	Metric
Output	WEB Report
Hourly Report	7 Days
Daily Report	7 Days
Monthly Report	12 Months

Change Preferences

- Windows Internet Explorer
s.water.ca.gov/cimis/frontMyStationList.do
ools Help
Search Share Check Translate AutoFill
Lists]

Account Management

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My Reports

Manage Station Lists

List 1	List 2	List 3
056 | remove	002 | remove	005 | remove
071 | remove	007 | remove	015 | remove
092 | remove	033 | remove	021 | remove
148 | remove	039 | remove	054 | remove
155 | remove	080 | remove	125 | remove
161 | remove	086 | remove	138 | remove
166 | remove	105 | remove	146 | remove
167 | remove	124 | remove	169 | remove
168 | remove	142 | remove	182 | remove
--	145 | remove	190 | remove

To place stations under any of the three lists, simply click the "Add" option for the desired "list" and "station". Clicking the Add option will immediately add the seleted station to the appropriate list above. Stations from the list above may be removed by clicking the "Remove" option.

* Station is Currently Inactive

Station	Name	County	Add to List 1	Add to List 2	Add to List 3
001 *	Fresno/F.S.U. USDA	Fresno	(add 001)	--	--
002	FivePoints	Fresno	(add 002)	(included)	--
003 *	Beach /Santa Cruz CO	Santa Cruz	(add 003)	--	--
004 *	Webb /Santa Cruz CO	Santa Cruz	(add 004)	--	--
005	Shafter/USDA	Kern	(add 005)	--	(included)
006	Davis	Yolo	(add 006)	--	--
007	Firebaugh/Telles	Fresno	(add 007)	(included)	--
008	Gerber	Tehama	(add 008)	--	--
009 *	Lamont	Kern	(add 009)	--	--
010 *	Bakersfield/Greenlee	Kern	(add 010)	--	--
011 *	Bakersfield/Bonanza	Kern	(add 011)	--	--
012	Durham	Butte	(add 012)	--	--
013	Camino	El Dorado	(add 013)	--	--
014 *	Orland	Glenn	(add 014)	--	--
015	Stratford	Kings	(add 015)	--	(included)
016 *	San Juan	Monterey	(add 016)	--	--
017 *	El Centro	Imperial	(add 017)	--	--
018 *	Westmorland	Imperial	(add 018)	--	--
019	Castroville	Monterey	(add 019)	--	--
020 *	Corcoran	Kings	(add 020)	--	--
021	Kettleman	Kings	(add 021)	--	(included)
022 *	Caruthers	Kings	(add 022)	--	--
023 *	King City	Monterey	(add 023)		

s Internet Explorer
.ca.gov/cimis/logon.do?forwardURL=/frontMyReport&selTab=my.cimis
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CALIFORNIA IRRIGATION MANAGEMENT INFORMATION SYSTEM
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My Reports

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Quick Reports

Report Options	
Standard Hourly (using prefs)	list 1 | list 2 | list 3
Standard Daily (using prefs)	list 1 | list 2 | list 3
Standard Daily ETo Variance (using prefs)	list 1 | list 2 | list 3
Standard Monthly (using prefs)	list 1 | list 2 | list 3
Standard Monthly Average ETo (using prefs)	list 1 | list 2 | list 3

My Custom Reports

Report Options	
sewert	list 1 | list 2 | list 3 | customize
sewert2	list 1 | list 2 | list 3 | customize
sewert3	list 1 | list 2 | list 3 | customize
sewert4	list 1 | list 2 | list 3 | customize

Tip: Custom reports allow you to name your own very specific report styles. You can choose the report type, unit, date range, and even the fields that will appear in your report. Property values specified as "report preferences" will not be used in custom reports.

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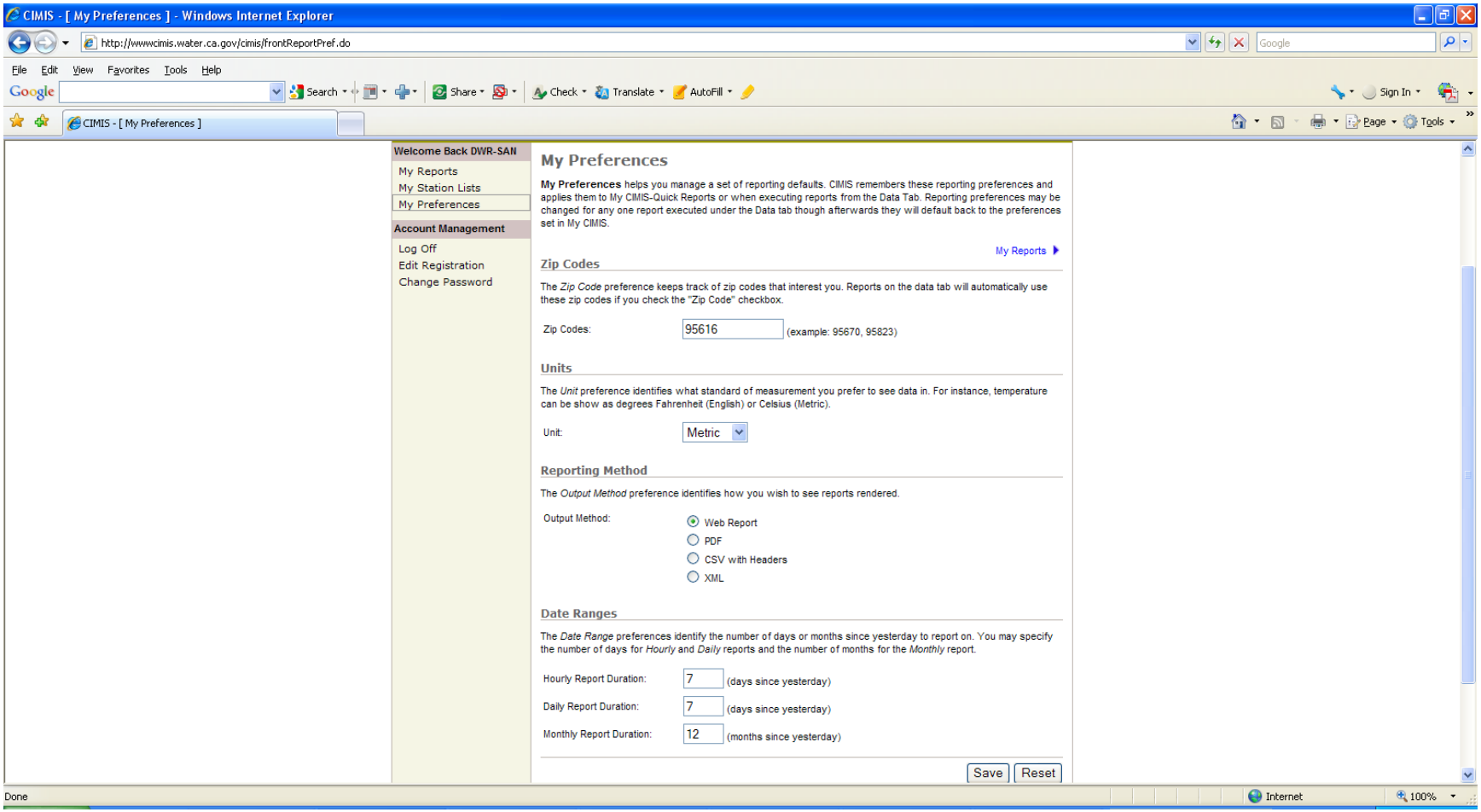
167	124	169
168	142	182
--	145	190

Create/Change Station Lists

My Preferences

Name	Value
Zip Codes	95616
Units	Metric
Output	WEB Report
Hourly Report	7 Days
Daily Report	7 Days
Monthly Report	12 Months

Change Preferences


CIMIS - [My Preferences] - Windows Internet Explorer
http://wwwcimis.water.ca.gov/cimis/frontReportPref.do
File Edit View Favorites Tools Help
CIMIS - [My Preferences]
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My Preferences
My Preferences helps you manage a set of reporting defaults. CIMIS remembers these reporting preferences and applies them to My CIMIS-Quick Reports or when executing reports from the Data Tab. Reporting preferences may be changed for any one report executed under the Data tab though afterwards they will default back to the preferences set in My CIMIS.
My Reports
Zip Codes
The Zip Code preference keeps track of zip codes that interest you. Reports on the data tab will automatically use these zip codes if you check the "Zip Code" checkbox.
Zip Codes: 95616 (example: 95670, 95823)
Units
The Unit preference identifies what standard of measurement you prefer to see data in. For instance, temperature can be show as degrees Fahrenheit (English) or Celsius (Metric).
Unit: Metric
Reporting Method
The Output Method preference identifies how you wish to see reports rendered.
Output Method:
Web Report
PDF
CSV with Headers
XML
Date Ranges
The Date Range preferences identify the number of days or months since yesterday to report on. You may specify the number of days for Hourly and Daily reports and the number of months for the Monthly report.
Hourly Report Duration: 7 (days since yesterday)
Daily Report Duration: 7 (days since yesterday)
Monthly Report Duration: 12 (months since yesterday)
Save
Reset
Done
Internet
100%

s Internet Explorer
.ca.gov/cimis/logon.do?forwardURL=/frontMyReport&selTab=my.cimis
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CALIFORNIA IRRIGATION MANAGEMENT INFORMATION SYSTEM
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167	124	169
168	142	182
--	145	190

Create/Change Station Lists

My Preferences

Name	Value
Zip Codes	95616
Units	Metric
Output	WEB Report
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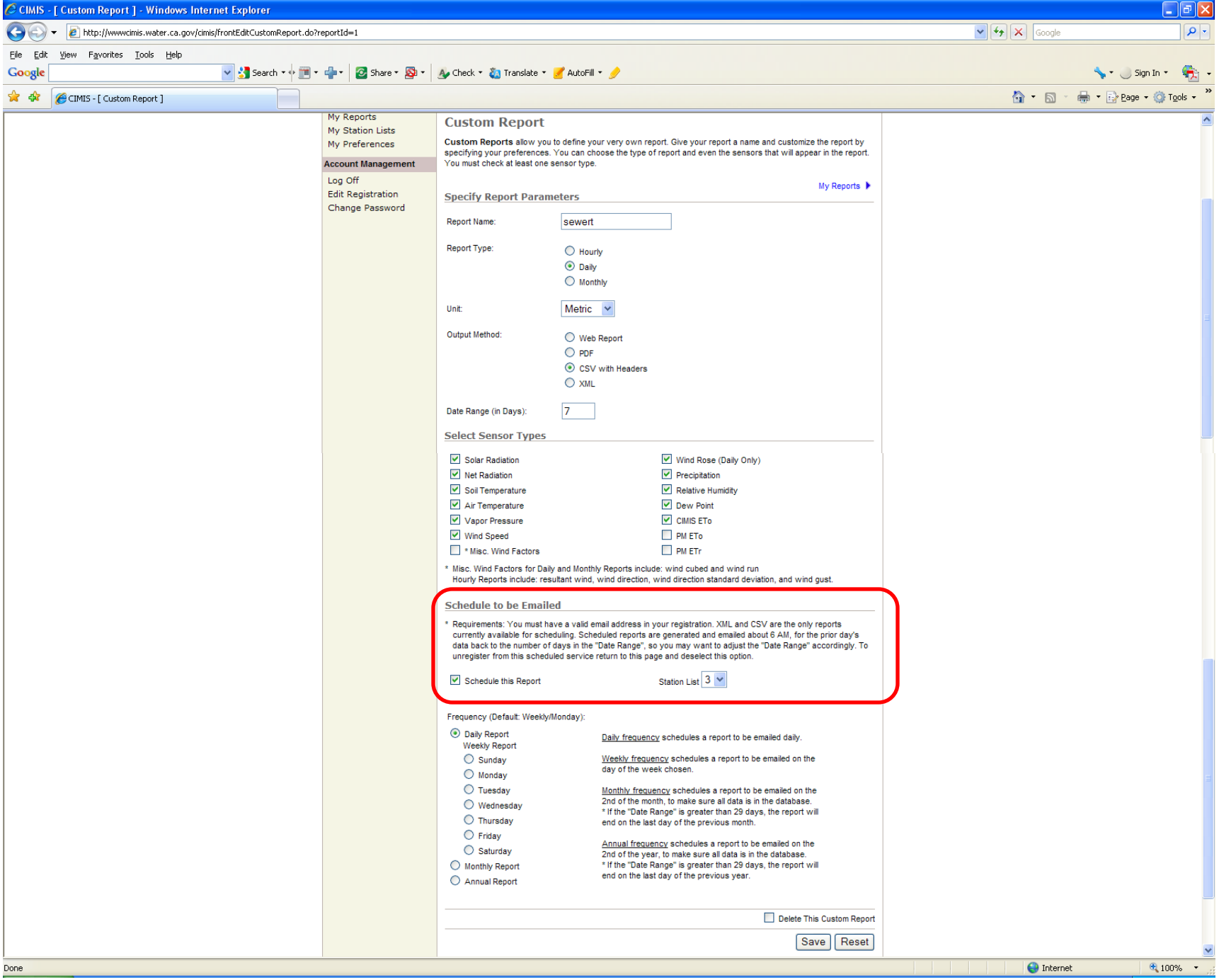
Monthly Report	12 Months

Change Preferences


CIMIS - [Custom Report] - Windows Internet Explorer
http://wwwcimis.water.ca.gov/cimis/frontEditCustomReport.do?reportId=1
File Edit View Favorites Tools Help
CIMIS - [Custom Report]
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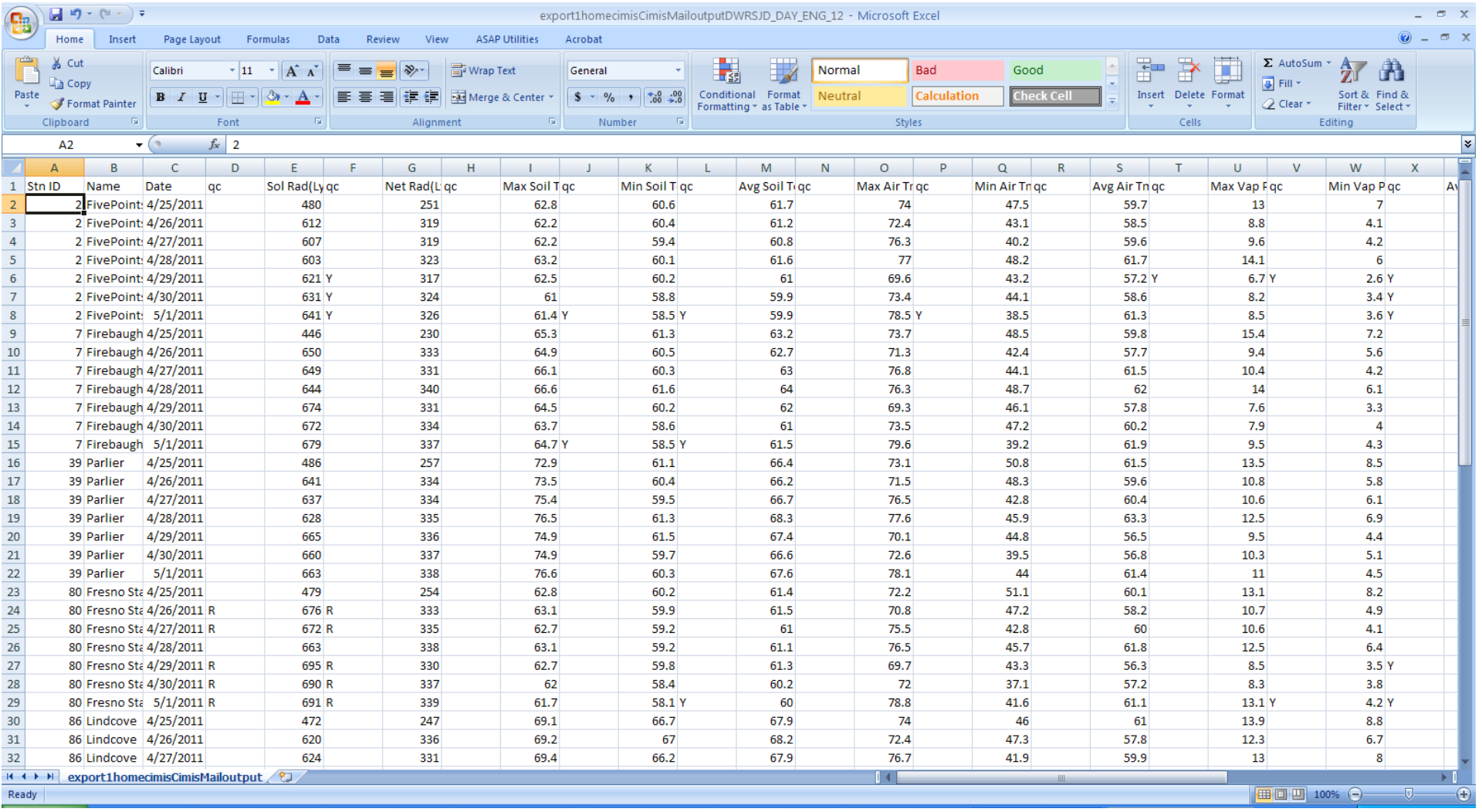
Custom Report
Custom Reports allow you to define your very own report. Give your report a name and customize the report by specifying your preferences. You can choose the type of report and even the sensors that will appear in the report. You must check at least one sensor type.
My Reports
Specify Report Parameters
Report Name: sewert
Report Type: Hourly Daily Monthly
Unit: Metric
Output Method: Web Report PDF CSV with Headers XML
Date Range (in Days): 7
Select Sensor Types
Solar Radiation
Net Radiation
Soil Temperature
Air Temperature
Vapor Pressure
Wind Speed
* Misc. Wind Factors
Wind Rose (Daily Only)
Precipitation
Relative Humidity
Dew Point
CIMIS ETo
PM ETo
PM ETr
* Misc. Wind Factors for Daily and Monthly Reports include: wind cubed and wind run
Hourly Reports include: resultant wind, wind direction, wind direction standard deviation, and wind gust.
Schedule to be Emailed
* Requirements: You must have a valid email address in your registration. XML and CSV are the only reports currently available for scheduling. Scheduled reports are generated and emailed about 6 AM, for the prior day's data back to the number of days in the "Date Range", so you may want to adjust the "Date Range" accordingly. To unregister from this scheduled service return to this page and deselect this option.
Schedule this Report
Station List 3
Frequency (Default: Weekly/Monday):
Daily Report
Weekly Report
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Monthly Report
Annual Report
Daily frequency schedules a report to be emailed daily.
Weekly frequency schedules a report to be emailed on the day of the week chosen.
Monthly frequency schedules a report to be emailed on the 2nd of the month, to make sure all data is in the database.
* If the "Date Range" is greater than 29 days, the report will end on the last day of the previous month.
Annual frequency schedules a report to be emailed on the 2nd of the year, to make sure all data is in the database.
* If the "Date Range" is greater than 29 days, the report will end on the last day of the previous year.
Delete This Custom Report
Save
Reset
Done
Internet
100%


export1homecimisCimisMailoutputDWRSJD_DAY_ENG_12 - Microsoft Excel
Home
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Data
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View
ASAP Utilities
Acrobat
Cut
Copy
Format Painter
Paste
Clipboard
Calibri
11
Font
Wrap Text
Merge & Center
Alignment
General
Number
Conditional Formatting
Format as Table
Normal
Bad
Good
Neutral
Calculation
Check Cell
Styles
Insert
Delete
Format
Cells
AutoSum
Fill
Clear
Sort & Filter
Find & Select
Editing
A2
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Stn ID Name Date qc Sol Rad(Ly qc Net Rad(L qc Max Soil T qc Min Soil T qc Avg Soil T qc Max Air Tr qc Min Air Tn qc Avg Air Tn qc Max Vap P qc Min Vap P qc
2 FivePoint 4/25/2011 480 251 62.8 60.6 61.7 74 47.5 59.7 13 7
2 FivePoint 4/26/2011 612 319 62.2 60.4 61.2 72.4 43.1 58.5 8.8 4.1
2 FivePoint 4/27/2011 607 319 62.2 59.4 60.8 76.3 40.2 59.6 9.6 4.2
2 FivePoint 4/28/2011 603 323 63.2 60.1 61.6 77 48.2 61.7 14.1 6
2 FivePoint 4/29/2011 621 Y 317 62.5 60.2 61 69.6 43.2 57.2 Y 6.7 Y 2.6 Y
2 FivePoint 4/30/2011 631 Y 324 61 58.8 59.9 73.4 44.1 58.6 8.2 3.4 Y
2 FivePoint 5/1/2011 641 Y 326 61.4 Y 58.5 Y 59.9 78.5 Y 38.5 61.3 8.5 3.6 Y
7 Firebaugh 4/25/2011 446 230 65.3 61.3 63.2 73.7 48.5 59.8 15.4 7.2
7 Firebaugh 4/26/2011 650 333 64.9 60.5 62.7 71.3 42.4 57.7 9.4 5.6
7 Firebaugh 4/27/2011 649 331 66.1 60.3 63 76.8 44.1 61.5 10.4 4.2
7 Firebaugh 4/28/2011 644 340 66.6 61.6 64 76.3 48.7 62 14 6.1
7 Firebaugh 4/29/2011 674 331 64.5 60.2 62 69.3 46.1 57.8 7.6 3.3
7 Firebaugh 4/30/2011 672 334 63.7 58.6 61 73.5 47.2 60.2 7.9 4
7 Firebaugh 5/1/2011 679 337 64.7 Y 58.5 Y 61.5 79.6 39.2 61.9 9.5 4.3
39 Parlier 4/25/2011 486 257 72.9 61.1 66.4 73.1 50.8 61.5 13.5 8.5
39 Parlier 4/26/2011 641 334 73.5 60.4 66.2 71.5 48.3 59.6 10.8 5.8
39 Parlier 4/27/2011 637 334 75.4 59.5 66.7 76.5 42.8 60.4 10.6 6.1
39 Parlier 4/28/2011 628 335 76.5 61.3 68.3 77.6 45.9 63.3 12.5 6.9
39 Parlier 4/29/2011 665 336 74.9 61.5 67.4 70.1 44.8 56.5 9.5 4.4
39 Parlier 4/30/2011 660 337 74.9 59.7 66.6 72.6 39.5 56.8 10.3 5.1
39 Parlier 5/1/2011 663 338 76.6 60.3 67.6 78.1 44 61.4 11 4.5
80 Fresno Sta 4/25/2011 479 254 62.8 60.2 61.4 72.2 51.1 60.1 13.1 8.2
80 Fresno Sta 4/26/2011 R 676 R 333 63.1 59.9 61.5 70.8 47.2 58.2 10.7 4.9
80 Fresno Sta 4/27/2011 R 672 R 335 62.7 59.2 61 75.5 42.8 60 10.6 4.1
80 Fresno Sta 4/28/2011 663 338 63.1 59.2 61.1 76.5 45.7 61.8 12.5 6.4
80 Fresno Sta 4/29/2011 R 695 R 330 62.7 59.8 61.3 69.7 43.3 56.3 8.5 3.5 Y
80 Fresno Sta 4/30/2011 R 690 R 337 62 58.4 60.2 72 37.1 57.2 8.3 3.8
80 Fresno Sta 5/1/2011 R 691 R 339 61.7 58.1 Y 60 78.8 41.6 61.1 13.1 Y 4.2 Y
86 Lindcove 4/25/2011 472 247 69.1 66.7 67.9 74 46 61 13.9 8.8
86 Lindcove 4/26/2011 620 336 69.2 67 68.2 72.4 47.3 57.8 12.3 6.7
86 Lindcove 4/27/2011 624 331 69.4 66.2 67.9 76.7 41.9 59.9 13 8
export1homecimisCimisMailoutput
Ready
100%

sewert@water.ca.gov

CALIFORNIA THE GOLDEN STATE

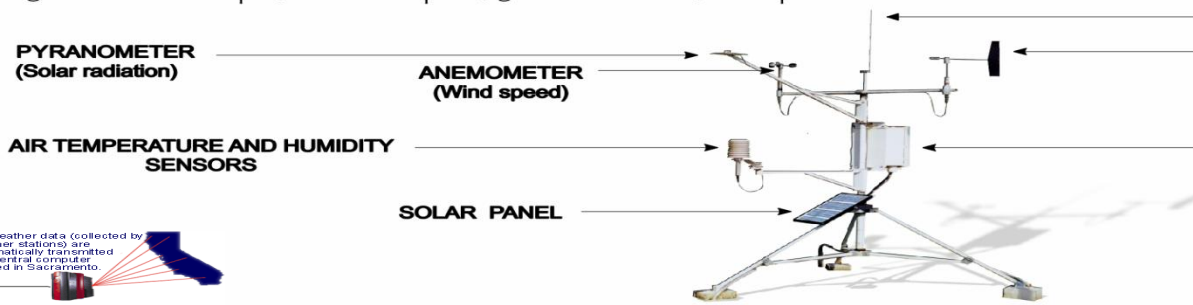
California Irrigation Management Information System

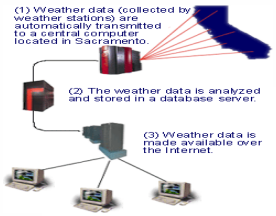
Department of Water Resources

Irrigation Management Tool And More!

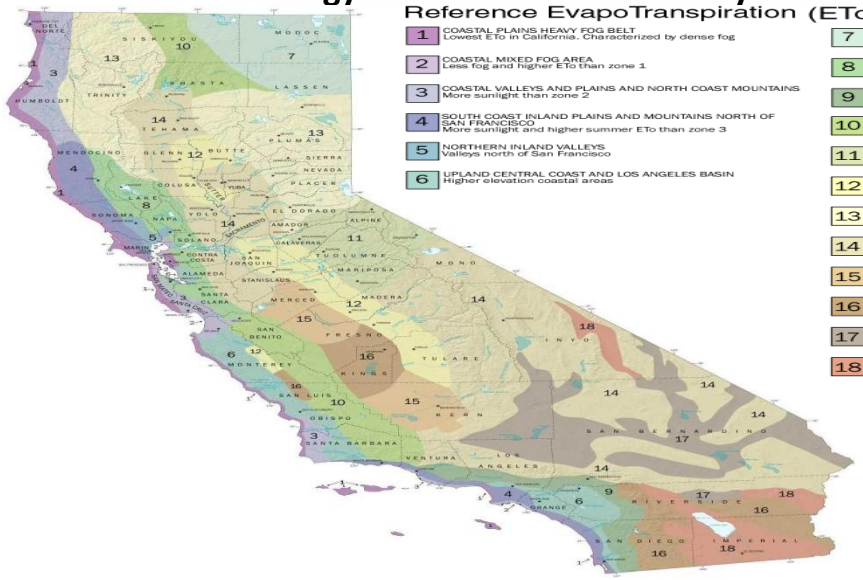
What is CIMIS?

CIMIS is a network of automated and computerized weather stations located at key agricultural and urban areas of the state. The stations collect climatological data and transmit it to a main computer. After quality control of the data, irrigated grass water requirements or a reference evapotranspiration is calculated for each station. The data then is available to the agricultural and urban water users for irrigation of agronomic crops, landscapes, golf courses, and parks.





Increase Energy and Water Use Efficiency!



Reference EvapoTranspiration (ETo) Zones

1. COASTAL PLAINS HEAVY FOG BELT — Lowest ETo in California. Characterized by dense fog
2. COASTAL MIXED FOG AREA — Less fog and higher ETo than zone 1
3. COASTAL VALLEYS AND PLAINS AND NORTH COAST MOUNTAINS — More sunlight than zone 2
4. SOUTH COAST INLAND PLAINS AND MOUNTAINS NORTH OF SAN FRANCISCO — More sunlight and higher summer ETo than zone 3
5. NORTHERN INLAND VALLEYS — Valleys north of San Francisco
6. UPLAND CENTRAL COAST AND LOS ANGELES BASIN — Higher elevation coastal areas
7. NORTHEASTERN PLAINS
8. INLAND SAN FRANCISCO BAY AREA — Inland area near San Francisco with some marine influence
9. SOUTH COAST MARINE TO DESERT TRANSITION — Inland area between marine and desert climates
10. NORTH CENTRAL PLATEAU & CENTRAL COAST RANGE — Cool, high elevation areas with strong summer sunlight. This zone has limited climate data and the zones selection is somewhat subjective
11. CENTRAL SIERRA NEVADA — Sierra Nevada Mountain valleys east of Sacramento with some influence from the delta breeze in summer
12. EAST SIDE SACRAMENTO-SAN JOAQUIN VALLEY — Low winter and high summer ETo with slightly lower ETo than zone 14
13. NORTHERN SIERRA NEVADA — Northern Sierra Nevada mountain valleys with less marine influence than zone 11
14. MID-CENTRAL VALLEY, SOUTHERN SIERRA NEVADA, TEHACHAPI & HIGH DESERT MOUNTAINS — High summer sunshine and wind in some locations.
15. NORTHERN & SOUTHERN SAN JOAQUIN VALLEY — Slightly lower winter ETo due to fog and slightly higher summer ETo than zones 12 & 14
16. WESTSIDE SAN JOAQUIN VALLEY & MOUNTAINS EAST & WEST OF IMPERIAL VALLEY
17. HIGH DESERT VALLEYS — Valleys in the high desert near Nevada and Arizona
18. IMPERIAL VALLEY, DEATH VALLEY AND PALO VERDE — Low desert areas with high sunlight and considerable heat advection

For More Information: call 1-800-922-4647

Or Visit Us Online At: www.cimis.water.ca.gov