



CIMIS

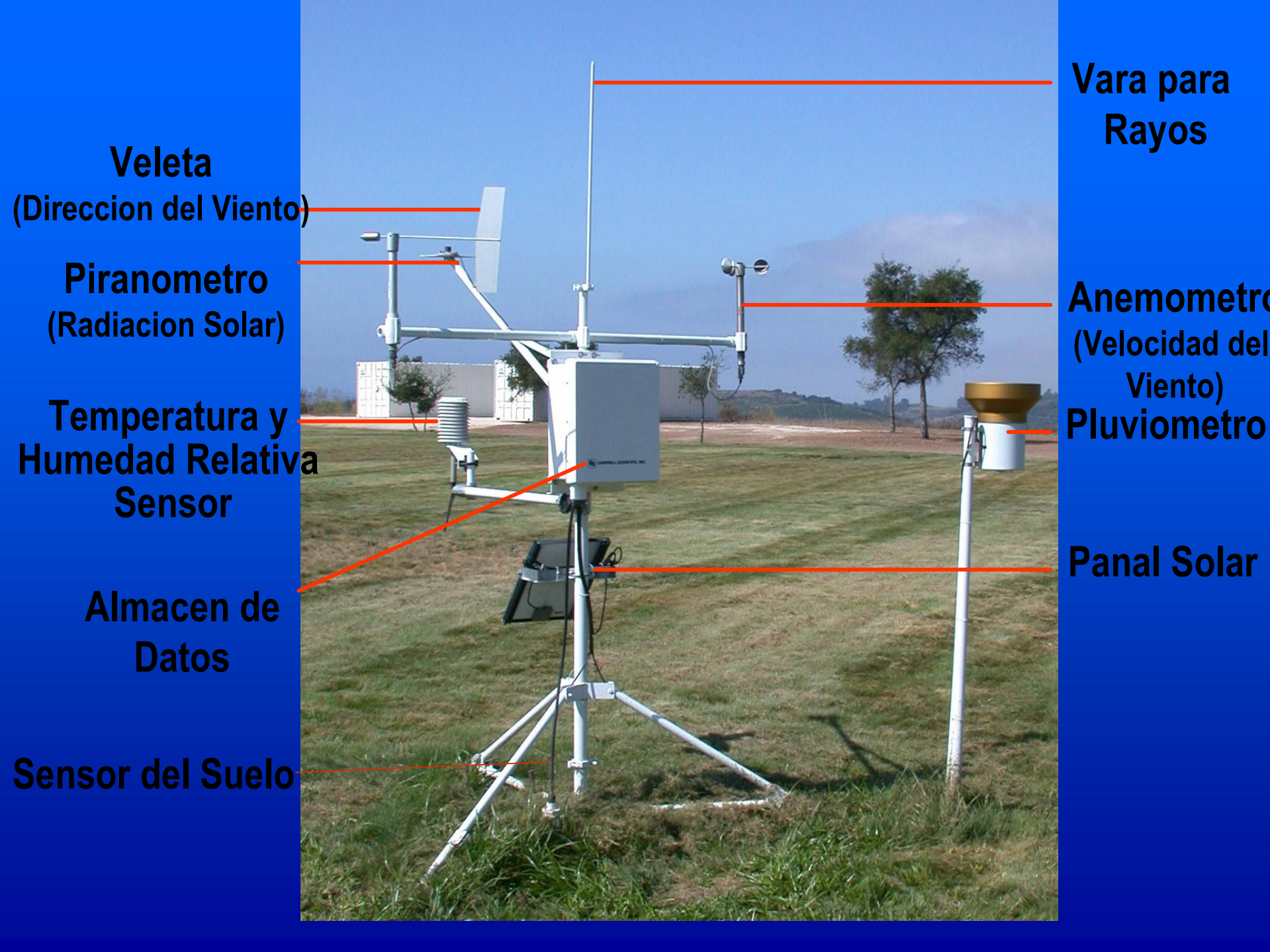
Department of Water Resources
State of California

Historia

- Inicio en 1982
- Metas
 - Establecer una red de estaciones climatológicas en regiones de agricultura
 - Evapotranspiración
 - Informar a los productores

Metas

- Implementar programas para calendarios de riego
- Implementar programas educativos
- Determinar coeficientes de cultivos



Veleta

(Dirección del Viento)

Piranometro

(Radiación Solar)

**Temperatura y
Humedad Relativa
Sensor**

**Almacen de
Datos**

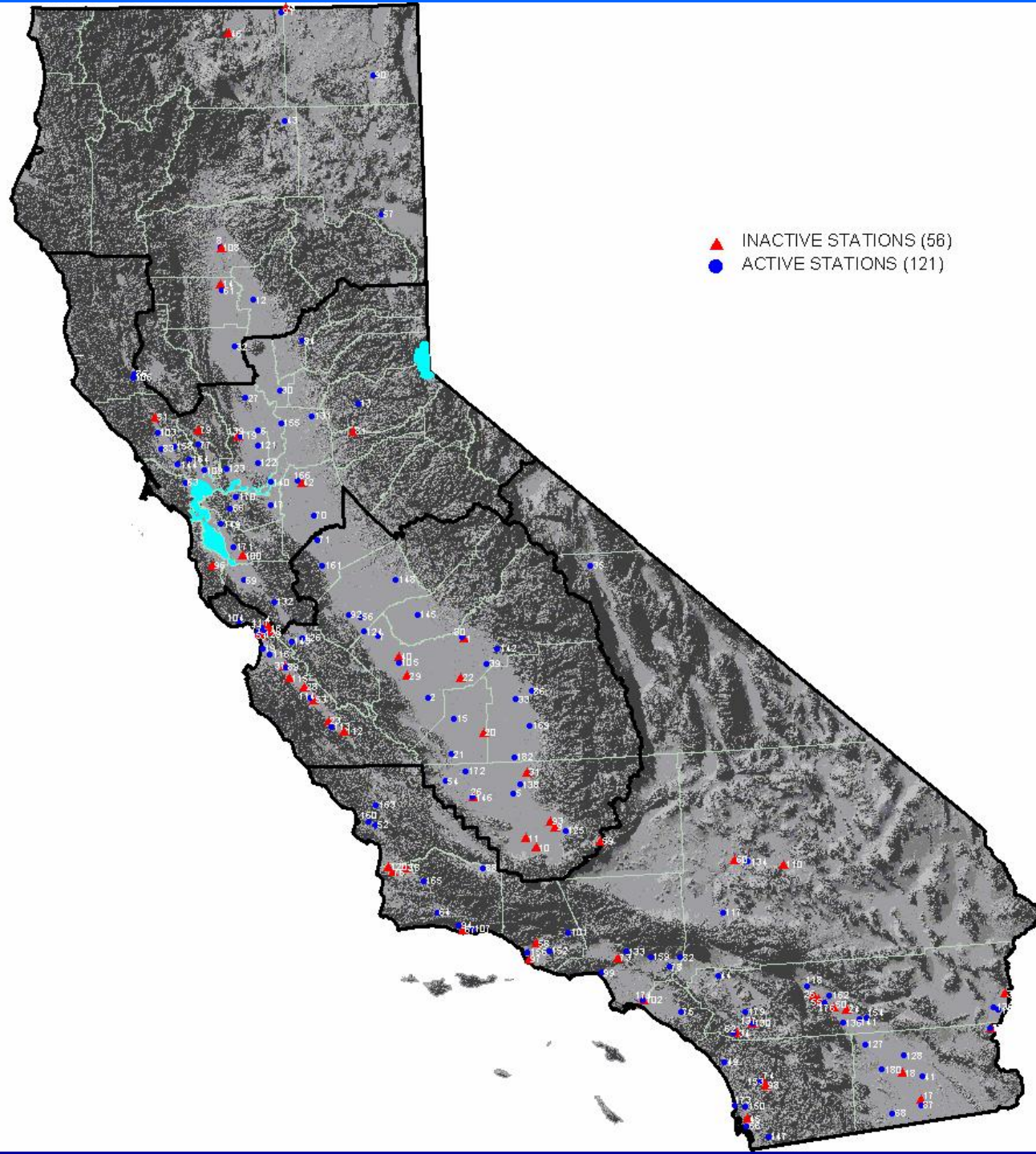
Sensor del Suelo

**Vara para
Rayos**

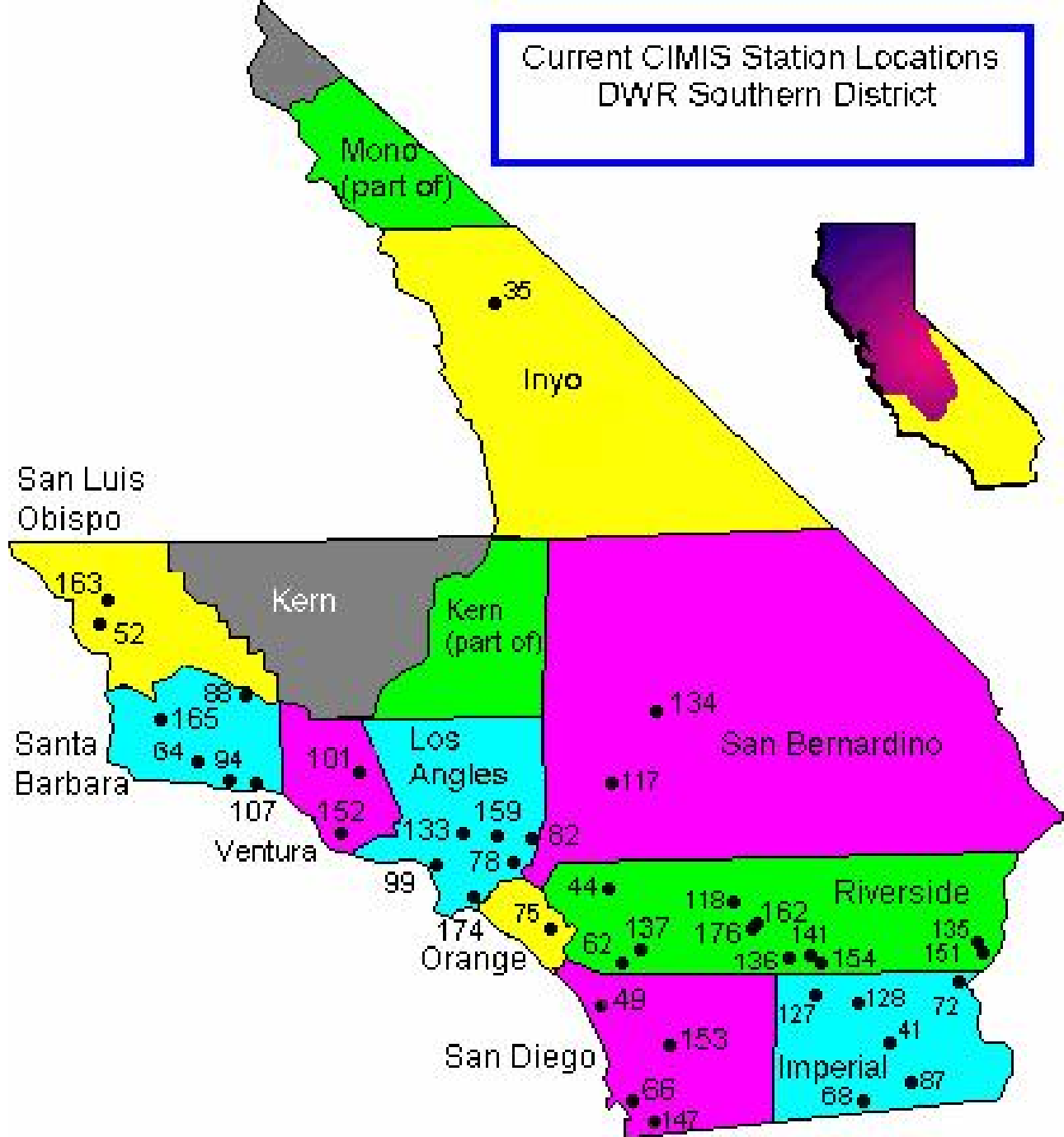
**Anemometro
(Velocidad del
Viento)**

Pluviometro

Panal Solar

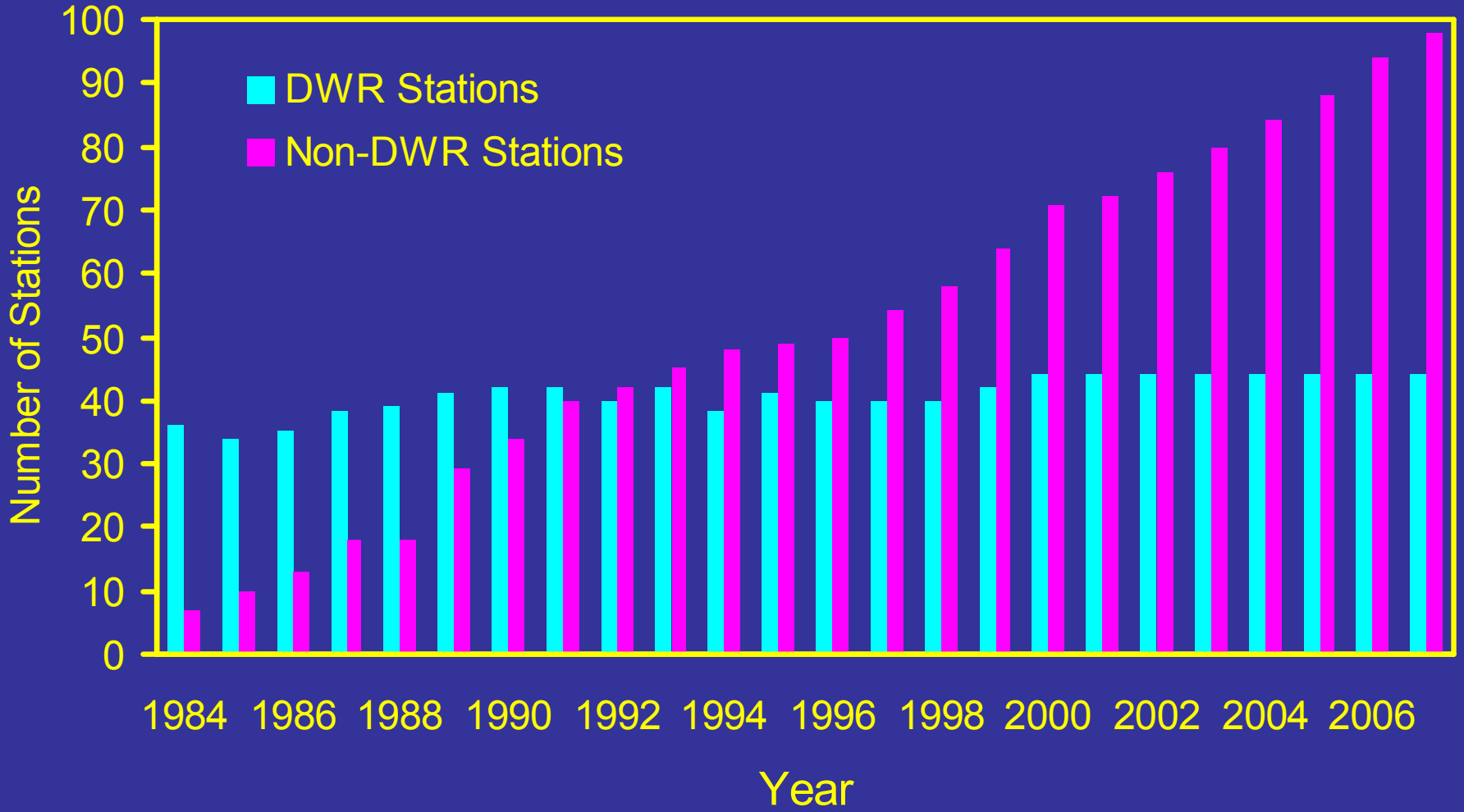


Current CIMIS Station Locations
DWR Southern District



Cerca de 70% de las 142 estaciones climatológicas en la red CIMIS les pertenecen a distritos de riego, agencias de agua locales, universidades sectores del gobierno federal, estatal y municipios locales

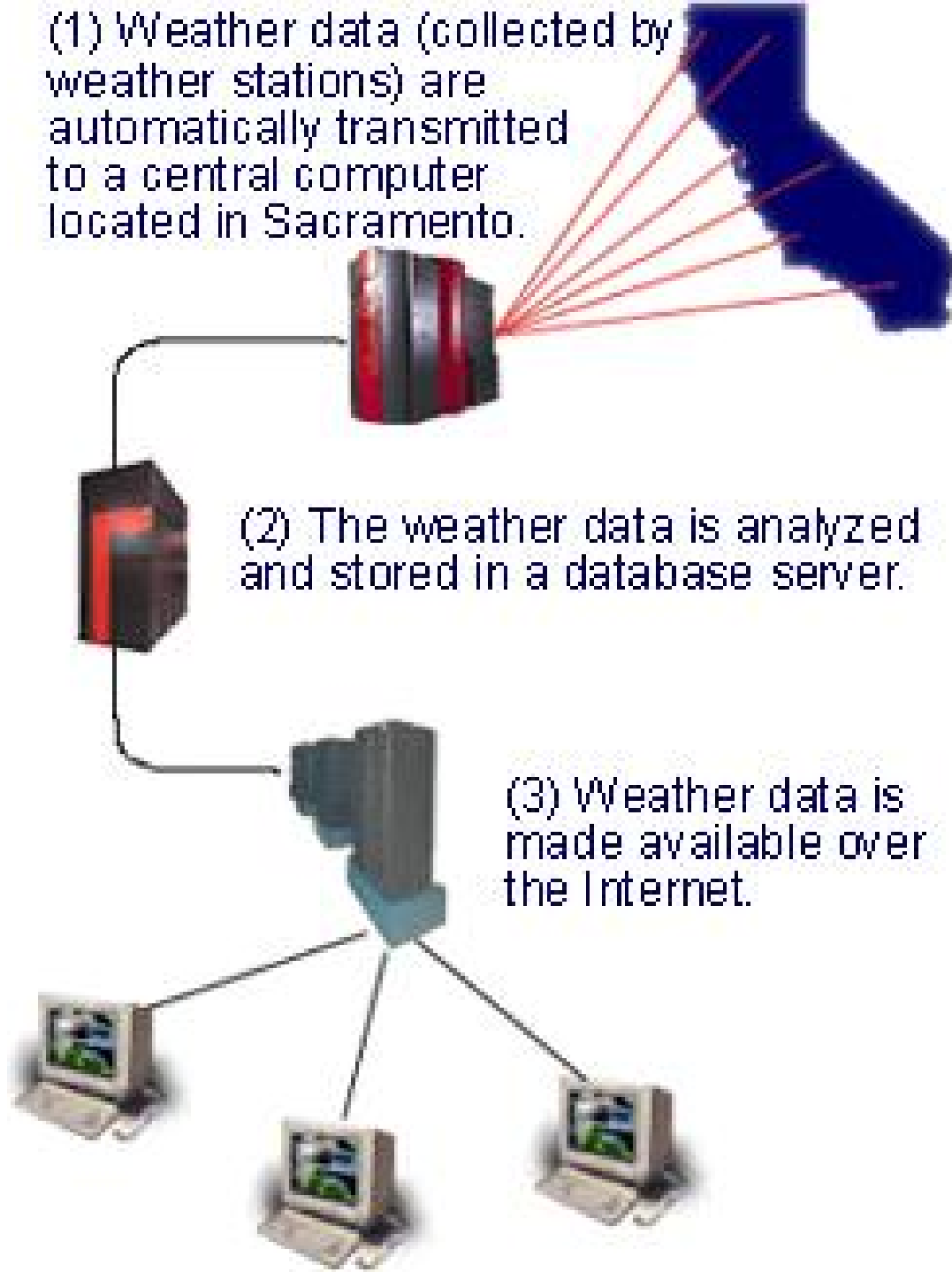
CIMIS Network Stations



Como Trabaja la Red CIMIS

- Datos de 24 horas son colectados
- Datos son transferidos cada noche a la computadora central
- Computadora central calcula evapotranspiracion
- Informacion esta lista para el publico despues de las 3 a.m.

(1) Weather data (collected by weather stations) are automatically transmitted to a central computer located in Sacramento.



(2) The weather data is analyzed and stored in a database server.

(3) Weather data is made available over the Internet.

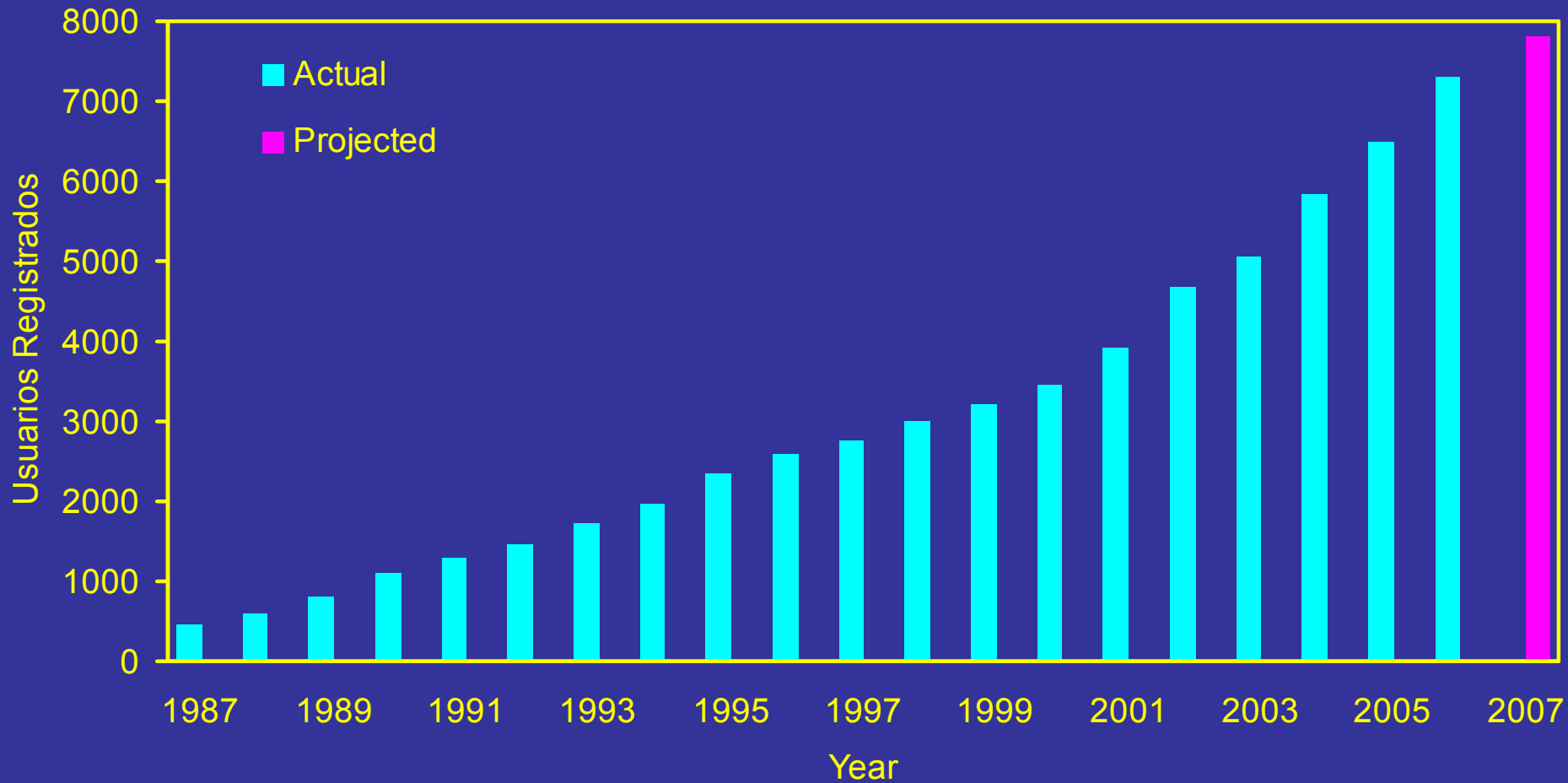
Evapotranspiración (ETo) es la cantidad de agua que se utiliza en el suelo/cultivo por evaporación y transpiración de la planta.



Mas de 7,500 usuarios tienen acceso a los datos directamente a traves de la computadora CIMIS.

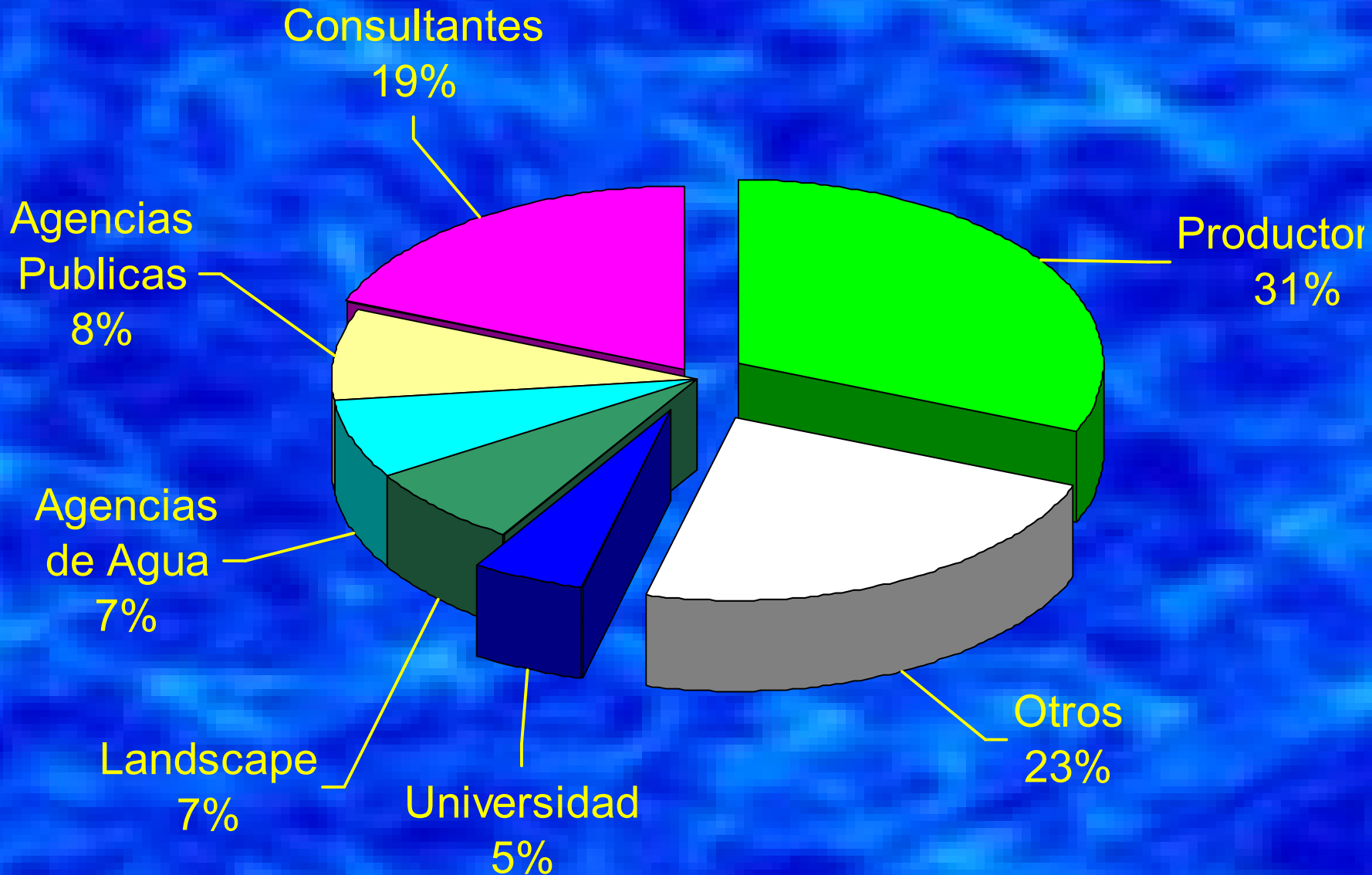
Datos de CIMIS tambien pueden ser accesibles por otros medios

CIMIS Usuarios Registrados Acceso Directo



Productores, consultantes, agencias de agua, y agencias publicas son las categorias con la mayor cantidad de usuarios en la red CIMIS

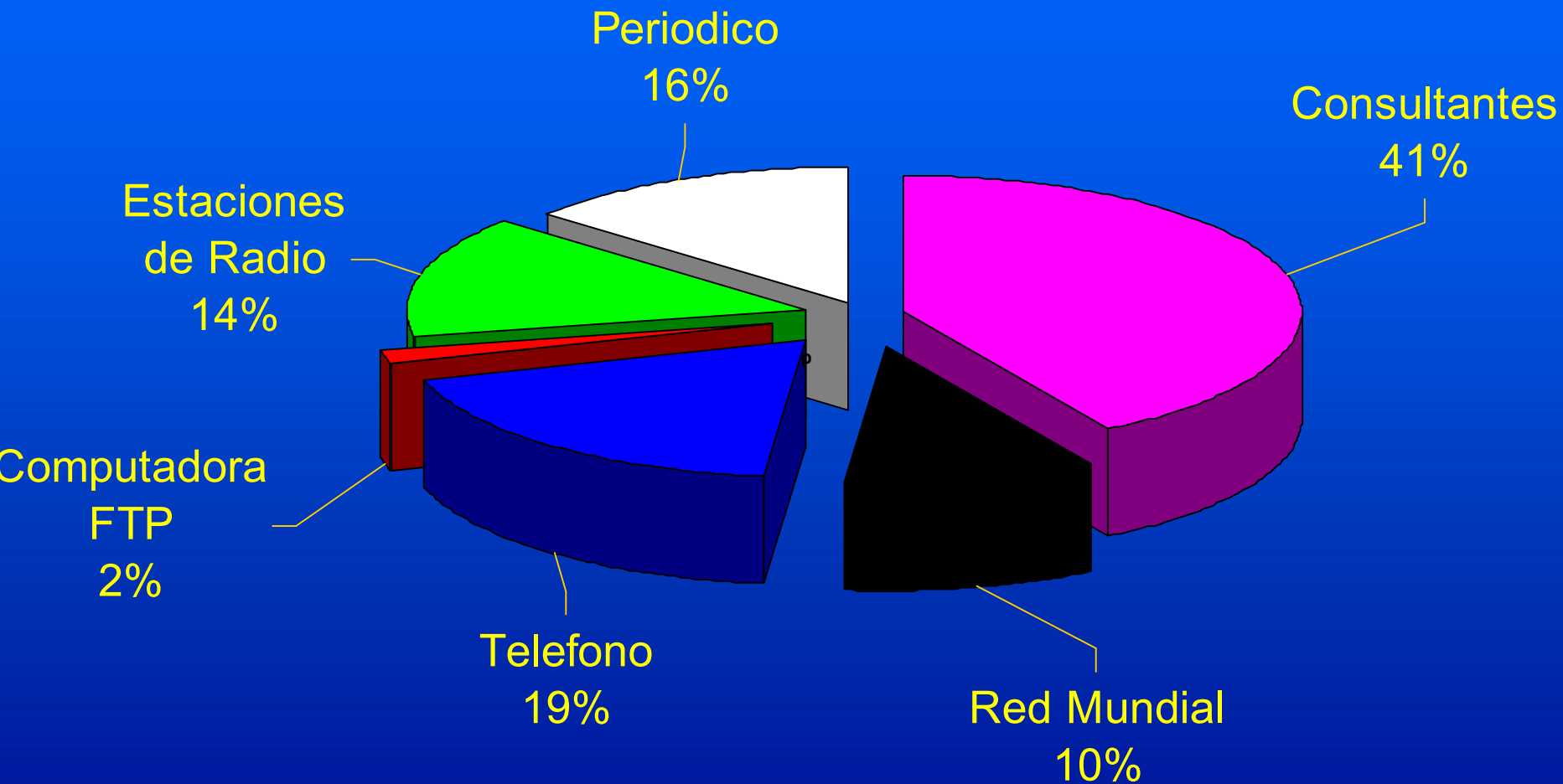
Categorías de Usuarios Registrados



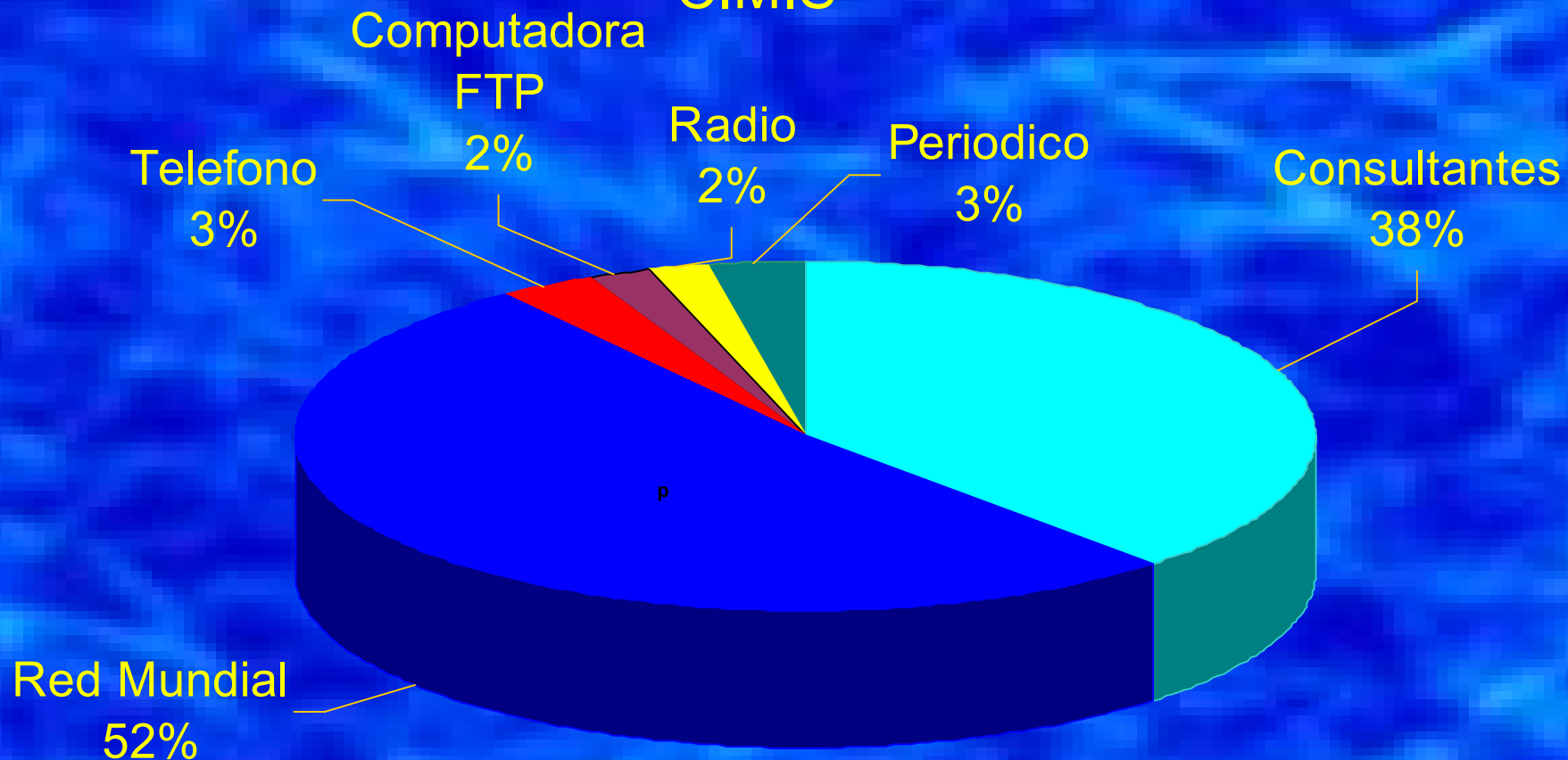
CIMIS informacion accesible via:

- Radio
- Telefono
- Periodico
- Cartas Informativas
- Red Mundial

Composicion de los Medios para Diseminacion de CIMIS



Composicion de los Medios para Diseminacion de CIMIS



California Irrigation Management Information System

Department of Water Resources

- HOME PAGE
- DOWNLOAD
- QUALITY CONTROL
- CROP COEFFICIENT
- REGISTER
- LINKS

BUDGET WATER USING ETo [← BACK](#)

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

Evapotranspiration is the combined process of water loss by evaporation and water transfer to the air through plant tissues.

Reference Evapotranspiration (ETo) is a term used to describe the evapotranspiration rate from a known surface, such as grass or alfalfa. ETo is expressed in either inches or millimeters. The ETo for an average year is referred to as normal year ETo.



Composite picture - ball park, row crop and trees

Best Viewed With Internet Explorer

California Irrigation Management Information System

Department of Water Resources

- HOME PAGE
- DOWNLOAD
- QUALITY CONTROL
- CROP COEFFICIENT
- REGISTER
- LINKS

DATA REPORTS [← BACK](#)

Non-Members

- ◆ [Sample Reports](#) Sample the type of reports available to members.
- ◆ [Weather Station List](#) Get a listing of weather stations ordered by station number. List includes each station's county, elevation, latitude and longitude. You will also have the option of getting detailed information on each weather station.

Daily Reports

- ◆ [Daily Report](#) This report will provide daily data for the stations and date range provided.

Consists of 14 pre-determined parameters: ETo; precipitation; solar radiation; average vapor pressure;

California Irrigation Management Information System

Department of Water Resources

DATA REPORTS

CIMIS SYSTEM

IRRIGATION

WEATHER STATIONS

ET₀

HOME PAGE

SYSTEM NEWS

REGISTER

FAQ

DOWNLOAD

CONTACTS

LINKS

SAMPLE DATA REPORTS ← BACK

Choose Report Style

- Daily (7 Days)
- Monthly (12 Months)

Output Method

- Web Report (HTML)
- Advanced (XML)

Select Counties

| | |
|----------|---|
| Fresno | ▲ |
| Glenn | |
| Humboldt | |
| Imperial | |
| Inyo | ▼ |

Create Report

Reset

| | | | | |
|-----|------|----|----|----|
| 483 | 12.1 | 79 | 49 | 64 |
|-----|------|----|----|----|

San Joaquin Valley - 7

| Avg. Sol. Rad (Ly/dy) | Avg. Vap. Pres (mBars) | Avg. Max Air Temp (°F) | Avg. Min Air Temp (°F) | Avg. Avg Air Temp (°F) |
|-----------------------|------------------------|------------------------|------------------------|------------------------|
| 216 | 7.9 | 57 | 33 | 44 |
| 281 | 8.7 | 60 | 39 | 48 |
| 400 | 11.2 | 69 | 44 | 57 |
| 296 | 9.2 | 62 | 39 | 49 |

Imperial Valley - 39

| Avg. Sol. Rad (Ly/dy) | Avg. Vap. Pres (mBars) | Avg. Max Air Temp (°F) | Avg. Min Air Temp (°F) | Avg. Avg Air Temp (°F) |
|-----------------------|------------------------|------------------------|------------------------|------------------------|
| 216 | 8.6 | 57 | 33 | 44 |
| 247 | 9.8 | 60 | 39 | 48 |
| 396 | 12.4 | 69 | 44 | 57 |



← BACK

California Irrigation Management Information System

Department of Water Resources

DATA REPORTS

CIMIS SYSTEM

IRRIGATION

WEATHER STATIONS

ET_o

HOME PAGE

SYSTEM NEWS

REGISTER

FAQ

DOWNLOAD

CONTACTS

LINKS

CIMIS (California Irrigation Management Information System)

Daily Report

Rendered in ENGLISH Units.
 May 8, 2002 - May 14, 2002
 Printed on May 15, 2002

Meloland - Imperial/Coachella Valley - Station 87

| Date | CIMIS ET _o (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) |
|------------------|----------------------------|-------------|------------------|-----------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-------------|----------------|-----------------|--------------------|
| 05/08/2002 | 0.27 | 0.00 | 743 R | 12.4 | 90.8 | 55.7 | 74.3 | 76 | 22 | 43 | 50.2 | 4.8 | 116.2 | 67.9 |
| 05/09/2002 | 0.30 | 0.00 | 756 R | 12.0 | 95.0 | 58.6 | 78.0 | 72 | 20 | 37 | 49.4 | 5.2 | 126.1 | 68.7 |
| 05/10/2002 | 0.47 | 0.00 | 774 R | 7.6 | 93.8 | 67.5 | 80.1 | 30 | 16 | 22 | 37.4 | 15.4 Y | 371.5 Y | 67.8 |
| 05/11/2002 | 0.31 | 0.00 | 780 R | 9.4 | 87.6 | 52.4 | 73.2 | 58 | 19 | 34 | 43.0 | 6.4 | 154.1 | 66.6 |
| 05/12/2002 | 0.29 | 0.00 | 780 R | 10.3 | 92.6 | 57.3 | 76.7 | 58 | 17 | 33 | 45.4 | 3.8 | 91.3 | 67.6 |
| 05/13/2002 | 0.33 | 0.00 | 788 R | 9.4 | 100.8 | 60.4 | 82.9 | 47 | 10 | 24 | 42.9 | 4.9 | 118.4 | 68.4 |
| 05/14/2002 | 0.38 | 0.00 | 773 R | 11.1 | 102.4 | 67.8 | 85.2 | 44 | 17 | 27 | 47.2 | 7.8 | 187.3 | 69.5 |
| Total/Avg | 2.35 | 0.00 | 771 | 10.3 | 94.7 | 60.0 | 78.6 | 55 | 17 | 31 | 45.1 | 6.9 | 166.4 | 68.1 |

[Create New Report](#)

| 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 - Missing Hourly Data | O - Related Sensor Missing | Y - Moderately out of range |

California Irrigation Management Information System

Department of Water Resources

DATA REPORTS

CIMIS SYSTEM

IRRIGATION

WEATHER STATIONS

ET_o

Standard Daily Report

[← BACK](#)[HOME PAGE](#)[SYSTEM NEWS](#)[REGISTER](#)[FAQ](#)[DOWNLOAD](#)[CONTACTS](#)[LINKS](#)

Note: To make multiple selections from any list, hold down the control key while you make your selections.

1

Select Stations

Select any combination of weather stations, regions and/or zip codes. Highlighting a region will select the stations in that region. Likewise, specifying zip codes will select associated weather stations.

Weather Stations

- 2 - FivePoints
- 5 - Shafter/USDA
- 6 - Davis
- 7 - Firebaugh/Telles
- 8 - Gerber
- 12 - Durham
- 13 - Camino

* Weather stations that are "(inactive)" no longer record weather data. Historical data does exist, but please refer to the [weather station list](#) to identify valid date ranges.

Regions

- Bishop
- Central Coast Valleys
- Imperial/Coachella Valley
- Los Angeles Basin
- Monterey Bay
- North Coast Valleys

California Irrigation Management Information System

Department of Water Resources

DATA REPORTS

CIMIS SYSTEM

IRRIGATION

WEATHER STATIONS

ET_o

HOME PAGE

SYSTEM NEWS

REGISTER

FAQ

DOWNLOAD

CONTACTS

LINKS

2

Select Unit of Measure

Would you like your report printed in Metric or English units?

English Metric



3

Enter Date Range

Enter the beginning and ending date for your report.

Start Date:

May 8 2002

End Date:

May 14 2002



4

Select Reporting Method

'Web Reports' print in your browser; 'Comma Separated Values' (CSV) can be imported into spreadsheets; 'PDF' reports provide stunning print quality, and the 'XML' format makes integrating CIMIS data into your information systems easier than ever.

Web Report PDF Report (must have Adobe Acrobat 5.0)

California Irrigation Management Information System

Department of Water Resources

- DATA REPORTS
- CIMIS SYSTEM
- IRRIGATION
- WEATHER STATIONS
- ET_o

- HOME PAGE
- SYSTEM NEWS
- REGISTER
- FAQ
- DOWNLOAD
- CONTACTS
- LINKS

CIMIS (California Irrigation Management Information System)

Daily Report

Rendered in METRIC Units.
 May 8, 2002 - May 14, 2002
 Printed on May 15, 2002

UC-Mex - Imperial/Coachella Valley - Station 185

| Date | CIMIS ET _o (mm) | Precip (mm) | Sol Rad (W.sq.m) | Avg Vap (kPa) | Max Air Temp (°C) | Min Air Temp (°C) | Avg Air Temp (°C) | Max Rel Hum (%) | Min Rel Hum (%) | Avg Rel Hum (%) | Dew Pt (°C) | Avg wSpd (m/s) | Wnd Run (Km) | Avg Soil Temp (°C) |
|------------------|----------------------------|-------------|------------------|---------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-------------|----------------|--------------|--------------------|
| 05/08/2002 | 7.10 A | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M |
| 05/09/2002 | 7.13 A | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M |
| 05/10/2002 | 7.16 A | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M |
| 05/11/2002 | 7.19 A | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M |
| 05/12/2002 | 7.22 A | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M |
| 05/13/2002 | 7.25 A | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M |
| 05/14/2002 | 7.28 A | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M | -- M |
| Total/Avg | 50.33 | 0.00 | NaN | NaN | NaN | NaN | NaN | NaN | NaN | NaN | NaN | NaN | NaN | NaN |

[Create New Report](#)

| 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 |
| U - Missing Wind Data | Q - Excluded from Minimum | X - Maximum Exceeded |

¿Preguntas?