

## Hydrology Database on AWIPS-2

This is a brief overview of the hydrologic database on AWIPS-2 and methods for interacting with it.

### Database Names

Documentation uses several names to refer to the **hd\_ob92xxx** database within PostgreSQL:

- Hydro DB
- WHFS DB
- IHFSDB
- **hd\_ob92xxx** (xxx= office ID in lowercase)

### List Databases

1. Open a terminal window on AWIPS-2
  2. Type **psql -l**
- The databases of interest are **hd\_ob92xxx** and **dc\_ob7xxx** (used by DamCREST)

### Check for PostgreSQL Processes

1. Log into dx1
2. Type **ps -ef | grep -i postgres**
  - If the command returns nothing, no PostgreSQL processes are running on dx1.

Ensure PostgreSQL failed over correctly to dx2:

3. Log into dx2
4. Type **ps -ef | grep -i postgres**
  - If no processes are running, check with the ITO/ESA/AWIPS Focal Point to see if other tasks require the database to be stopped. If the local staff did not stop the database, notify NCF.
  - **Note:** A large number of **inactive** processes are returned by the command. A large number of **waiting** processes indicates a problem.

## Methods to Access the Hydro DB

Access the database using one of three methods. The first two provide tools to complete common tasks. The third option uses **psql** commands to query and update tables directly (**only** for experienced PostgreSQL users).

### Hydro Database Manager (HydroBase)

1. From the Hydro perspective, navigate to the **HydroApps** menu
2. Select **Hydro Database Manager**
3. Add new locations and make edits as needed

### Snoopy Application

1. Log into the Software Collaboration Portal <https://collaborate.nws.noaa.gov/trac/nwsscp/wiki>
2. Scroll down to **Quick Links** and click the **ScplIndex** link
3. Scroll toward the bottom of the first section, **AppsAwips**, and click **AppsAwips/Snoopy**
4. At the bottom of the page, click the arrow to expand the **Attachments** section
5. Download the **Installing Instructions**, **User Instructions**, and **tar** file
6. Work with the ITO to install the application on AWIPS-2

### psql Utility

Only use this utility for command-line interaction with PostgreSQL **if** you completed training. The psql commands query and/or update database tables directly. **Note:** Running a **SELECT** command to view data is safe.

## References

PostgreSQL training on the NWS Learn Center - Navigate to AWIPS-2 Training. From the AWIPS-2 Transition Training page, scroll to the System Administration Training, and locate the **Postgres Overview for ESAs, ITOs, and AWIPS Focal Points** section.

In-depth information from the PostgreSQL software page <http://www.postgresql.org/>

**Note:** AWIPS-2 uses a specific version, which is **not** the most recent version available. This PostgreSQL site is just for general knowledge and is not AWIPS-specific.

The **Software Version Description** defines the current version of PostgreSQL in AWIPS. The document is available on the AWIPS One Stop page under **AWIPS-II Documents**

[https://onestop.noaa3a.awips.noaa.gov/awips\\_2\\_Document2.html](https://onestop.noaa3a.awips.noaa.gov/awips_2_Document2.html)