# Unit conversion error

**Calculator/Processing Module**: ExpectedDemand\_ExceedsFV\_UnitConversion\_UseVsDiv\_Statistics

### Examples:

* When the reported diversion is substantially larger (or sometimes smaller) than their face value most likely it is a unit conversion error.

**What (is being flagged):**INI\_REPORTED\_DIV\_AMOUNT

Why:

* Large errors in the data will cause water allocation to be inaccurate.

### Data Source:

* [ewrims\_flat\_file.csv](https://intapps.waterboards.ca.gov/downloadFile/faces/flatFilesCiwqs.xhtml?fileName=ewrims_flat_file.csv)
* [water\_use\_report.csv](https://intapps.waterboards.ca.gov/downloadFile/faces/flatFilesEwrims.xhtml?fileName=water_use_report.csv)

### Existing Fields:

* APPLICATION\_NUMBER (ewrims\_flat\_file.csv)
* INI\_REPORTED\_DIV\_AMOUNT (ewrims\_flat\_file.csv)
* INI\_REPORTED\_DIV\_UNIT (ewrims\_flat\_file.csv)
* FACE\_VALUE\_AMOUNT (ewrims\_flat\_file.csv)
* FACE\_VALUE\_UNITS (ewrims\_flat\_file.csv)
* APPL\_ID (water\_use\_report.csv)
* WATER\_RIGHT\_ID (water\_use\_report.csv)
* YEAR (water\_use\_report.csv)
* MONTH (water\_use\_report.csv)
* AMOUNT (water\_use\_report.csv)
* DIVERSION\_TYPE (water\_use\_report.csv)

### New Fields:

* Total\_Use\_as\_a\_Percent\_of\_Total\_Diverted - The total cumulative use divided by total cumulative diversion. This should approach 1, but should not exceed it, as use cannot occur PRIOR to diversion. Percentages that deviate from near 1 (either high or low) suggest that an error in either the diverted amount or the use amount are likely present
* Annual\_Diversion\_if\_reported\_in\_Gallons -Reference calculation to show what the volume would be in AF, assuming the user reported in units of Gallons
* Annual\_Diversion\_if\_reported\_in\_GPM -Reference calculation to show what the volume would be in AF, assuming the user reported in units of Gallons per minute
* Annual\_Diversion\_if\_reported\_in\_GPD- Reference calculation to show what the volume would be in AF, assuming the user reported in units of Gallons per day
* Annual\_Diversion\_if\_reported\_in\_CFS - Reference calculation to show what the volume would be in AF, assuming the user reported in units of cubic feet per second