Identify missing reports of water diversion and use

Data Processing Module: Missing_RMS_Report

Description: Identify water rights with missing reports and calculate # of missing reports since 2010.

Example: A water right holder does not submit an annual report to the RMS system in 2013.

What (is being flagged): Water rights that are missing one or more annual diversion and use reports.

How: Determine the first annual report that should have been submitted using the "ASSIGNED_PRIORITY_DATE" field created in flag 6. Determine the latest report that should have been submitted (account for annual reporting deadlines à if the current date is later than July 1). For each APPL_ID, count the number of years since the "ASSIGNED_PRIORITY_DATE" year AND/OR after 2013, if the assigned priority date of right is pre-2014 (reporting reqs became annual) and populate new field "REPORTS_EXPECTED" with this value. Count all reports submitted after "ASSIGNED_PRIORITY_DATE" year AND/OR after 2013, if the assigned priority date of right is pre-2014 (reporting reqs became annual) and populate new field "REPORTS_SUBMITTED" with this value.

Resolution: Verify that the reports are missing. Determine whether the missing report can be ignored or needs estimation based on the size diversion and any other relevant factors.

Data Files:
- water_use_report.csv

Existing Fields:
- APPL_ID- Data from water_use_report.csv
- WATER_RIGHT_ID-Data from water_use_report.csv
- YEAR- Data from water_use_report.csv
- MONTH – Data from water_use_report.csv
- AMOUNT- Data from water_use_report.csv
- DIVERSION_TYPE- Data from water_use_report.csv
- ASSIGNED_PRIORITY_DATE- Data from water_use_report.csv

New Fields:
- ANNUAL_REPORTS_SUBMITTED - Number of submitted annual reports for water right from 2014 to most recent reporting year

- EXPECTED_REPORTS - Number of expected annual reports submitted for water right
- NO_OF_MISSING_ANNUAL_REPORTS - Number of missing annual reports that were not submitted for water right
- MORE_REPORTS_THAN_EXPECTED - Number of submitted annual reports that exceeds the expected reports