



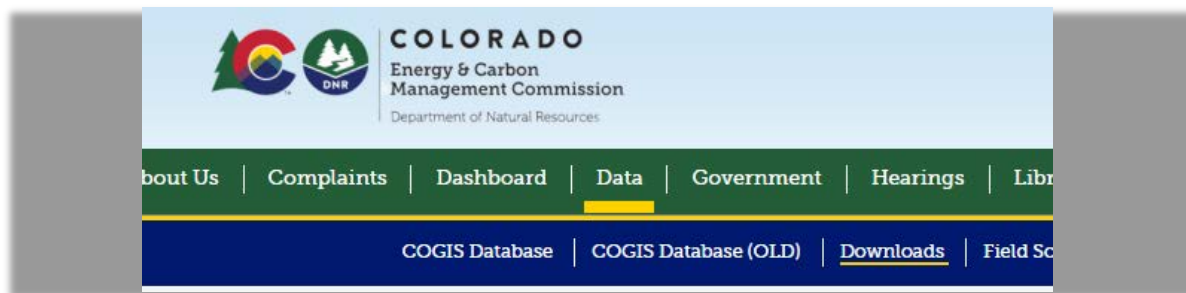
ECMC DATA DOWNLOAD GUIDE

HOW TO ACCESS DATA FROM THE WEBSITE

The ECMC requires operators to submit permit applications for most O&G activities. This includes: building a location, drilling and completing a well, installing production facilities, constructing a pit, conducting a seismic survey, operating a centralized waste management facility, operating an injection facility, plugging a well, etc. Operators are also required to submit reports upon the completion of permitted operations, for other subsequent operations and including monthly production.

All information submitted to the ECMC for each well and facility is retained in a SQL database. Information captured for each form includes the numeric and text data, an electronic image of the form, and electronic images of the attached documents. These databases contain data, reports, and supporting documentation regarding the site inspection, spills, releases, violations, complaints and more.

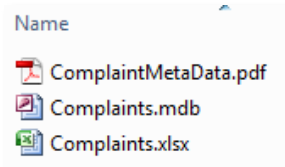
Data Available for Download



The ECMC provides multiple data sets for download. All files can be found under the: *Data -> Downloads subsection of the site.*

Complaint Data

From the Downloads page click on “Complaints” to expand the field, if not already, and then click on the “Complaints Data” link. This will take you to a disclaimer page where you may then click on Complaints Download to save the zip file to your system. The zip file will contain an access database and an excel file. Both files contain the same data.



All complaint data from 2010 forward is included in this download. Data prior to 2010 was excluded due to significantly different complaint investigation processes and data tracking methods used prior to 2010.

ECMC DATA DOWNLOAD

NOAV Data

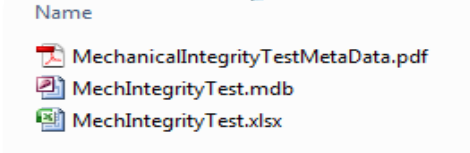
As with Complaints, clicking on the “NOAV Data” link will take you to a disclaimer page where you can then click on Notice of Alleged Violation Download to save the zip file to your system. The zip file will contain an access database and an excel file. Both files contain the same data.



All NOAV data from 2010 forward is included in this data download. Data prior to 2010 was excluded due to significantly different NOAV and inspection processes and data tracking methods used prior to 2010.

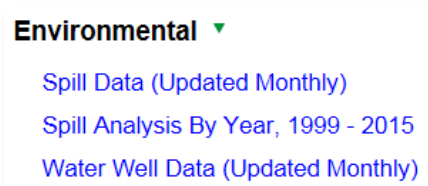
Mechanical Integrity Test Data

Clicking on the “Mechanical Integrity Test (MIT) Data” link will again take you to a disclaimer page where you can then click on Mech Integrity Test Download to save the zip file to your system. The zip file will contain an access database and an excel file. Both files contain the same data.



The data within MechIntegrityTest.zip is compiled from data collected by the ECMC. It is data taken from Form 21 which is submitted by operators.

Environmental



Spill Data

Clicking on the link will download SPILLS.zip which contains three files: Spills.mdb, Spills.xlsx, and Spills instructions.pdf. This is a download of Initial form 19 reports as well as Supplemental reports and Initial w/ supplemental reports.

Spill Analysis by Year, 1999 – 2015

SpillAnalysisByYear.pdf contains a chart listing number of spills and totals related to those spills per year.

Water Well Data

Clicking on the “Water Well Data” link will take you to a disclaimer pager where you can then access WaterWellDownload.zip. WaterWellDownload.mdb contains raw data related to water sampling programs under Rules 317(B), 318Ae(4), 607, 608 and 609.

ECMC DATA DOWNLOAD

GIS Shapefiles

There are three categories of shape files provided by the ECMC. They are **Well Surface Location Data**, **Directional Well Data**, and **Other ECMC GIS Data**. Under GIS Shape Files click on the category you want to expand the field. If Microsoft access is not available to you the .dbf Files can be opened in excel.

Well Surface Location Data

There are three downloads for Well Surface Location.

Well Surface Location Data (Updated Daily) ▾

[Wells \(10 Mb\) - metadata](#)

Active and plugged wells - including active and expired well permits

[Well Permits \(300 Kb\) - metadata](#)

Active well permits

[Pending Well Permits - Surface Locations \(20 Kb\) - metadata](#)

Well permits that are in process and not yet approved

Wells

Clicking on “Wells” will allow you to download WELLS_SHP.zip. Within the zip file is Wells.dbf, which contains the well name and number, operator, API number, well location, well status, latitude, and longitude. The Well Shapefile includes all wells, regardless of status.

For wells drilled prior to 2012 the displayed wellbore trace will be as a straight line connecting the surface location to the bottom hole location. From 2012 forward, the wellbore trace represents the planned or actual wellbore trace drawn from directional data submitted by the well operator. The DIRLINES.dbf file can be opened in Excel but contains only the API numbers.

Well Permits

Clicking on Well Permits will allow you to download PERMITS_SHP.zip. Permits.dbf can be opened with excel; it contains the active well permits on file with the commission.

Pending Well Permits

Clicking on Pending Well Permits will allow you to download PERMITS_PENDING_SHP.zip. The files within cover wells that have been submitted to the commission, but not yet approved.

Directional Well Data

Directional Well Data (Updated Daily) ▾

Prior to January 1, 2012, straight-line wellbore traces (from surface hole locations to corresponding bottom hole locations) were automatically generated for directional and horizontal wells. The generated wellbore traces do not represent the true wellbore path. After January 1, 2012, directional lines have been generated using operator-submitted well survey information.

[Directional Bottom Hole Locations \(1 Mb\) - metadata](#)

Actual and planned bottom hole locations

[Directional Lines \(5 Mb\) - metadata](#)

Actual and planned directional wellbore survey surface projections

[Pending Directional Lines \(1 Mb\) - metadata](#)

Pending directional wellbore surface projections are from Forms 2, 4, and 5 that HAVE NOT been verified or approved

This data should be used with caution!

ECMC DATA DOWNLOAD

Directional Bottom Hole Locations

Clicking on the link will download `directional_bottomhole_locations_shp.zip`. It contains the well name and number, operator, API number, lat/long of the bottom hole location, the MD and TVD, a status of actual or planned, field code and name, and a directional indicator of directional or horizontal for directional wells. The `.dbf` file can be opened with excel.

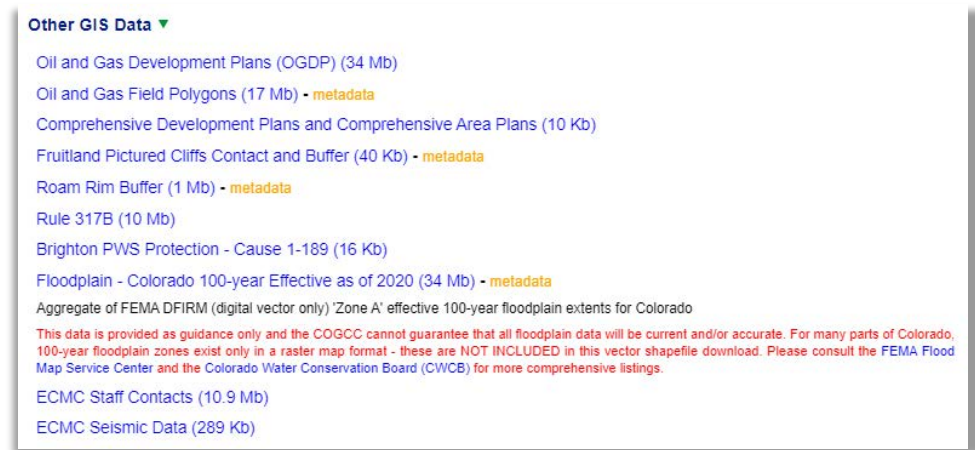
Directional Lines

Clicking on the directional lines link will download `directional_lines.zip`. The files within, when used with GIS software will display directional wellbore traces. As was the case with “Wells” for wells drilled prior to 2012 the displayed wellbore trace will be as a straight line connecting the surface location to the bottom hole location. From 2012 forward, the wellbore trace represents the planned or actual wellbore trace drawn from directional data submitted by the well operator.

Pending Directional Lines

Pending Directional Lines contains wellbore surface projection from Forms 2, 4, and 5. ***They have not been verified or approved.*** Caution should be used with this data. Clicking on the pending directional lines link will download `directional_lines_pending_shp.zip` which will contain six files that when used with GIS software will display directional wellbore traces.

Other ECMC GIS Data



The screenshot shows a list of GIS data files under the heading "Other GIS Data". The items listed are:

- Oil and Gas Development Plans (OGDP) (34 Mb)
- Oil and Gas Field Polygons (17 Mb) - metadata
- Comprehensive Development Plans and Comprehensive Area Plans (10 Kb)
- Fruitland Pictured Cliffs Contact and Buffer (40 Kb) - metadata
- Roam Rim Buffer (1 Mb) - metadata
- Rule 317B (10 Mb)
- Brighton PWS Protection - Cause 1-189 (16 Kb)
- Floodplain - Colorado 100-year Effective as of 2020 (34 Mb) - metadata
- Aggregate of FEMA DFIRM (digital vector only) 'Zone A' effective 100-year floodplain extents for Colorado
- This data is provided as guidance only and the COGCC cannot guarantee that all floodplain data will be current and/or accurate. For many parts of Colorado, 100-year floodplain zones exist only in a raster map format - these are NOT INCLUDED in this vector shapefile download. Please consult the FEMA Flood Map Service Center and the Colorado Water Conservation Board (CWCB) for more comprehensive listings.
- ECMC Staff Contacts (10.9 Mb)
- ECMC Seismic Data (289 Kb)

Pit – Locations

Clicking the link will download `PITS_SHP.zip`. These files cover pit locations. `Pits.dbf` can be opened with Excel and contains Facility Name, Pit ID, and Location.

Oil and Gas Field Polygons

Clicking on the link will download `ECMC_Fields.zip` which will contain files for all Colorado Oil and Gas Fields and files for the Wattenberg field specifically. The `.dbf` file will contain the field name and top 12 producing formations in that field.

Fruitland Pictured Cliffs Contact and Buffer

This GIS Layer was created by the ECMC for the purpose of evaluating approximate distances to the Fruitland/Pictured Cliffs contact. Clicking on the link will download `frlde_brif.zip`.

ECMC DATA DOWNLOAD

Roan Rim Buffer

The Roan Rim Buffer layer represents an "Area of Concern" along the rim of the Roan Plateau where certain restrictions apply regarding pit construction and use during oil and gas operations.

Wildlife Habitat

The zip file CDOW_HB1298_Data.zip. contains two folders – RSO for the *Restricted Surface Occupancy* areas and SWH for the *Sensitive Wildlife Habitat* areas.

Opening each file displays the species shape files which spatially displays the extent of the restrictions for that particular species. Refer to Appendix VIII of the ECMC Rules.

Rule 317B

Rule317B_Shapefiles.zip includes data is for each rule 317.B 300-foot, 500-foot, and half-mile buffers for stream areas used for public water supply. These files can also be used to display spatially public water supply areas.

Floodplain – Colorado 100-year Effective

Downloading Floodplain_Colorado_100yr_Effective.zip will give you eight files for the aggregate of FEMA DFIRM (digital vector only) 'Zone A' effective 100-year floodplain extents for Colorado. For many parts of Colorado, 100-year floodplain zones exist only in a raster map format - these are NOT INCLUDED in this vector shapefile download. Please consult the FEMA Flood Map Service Center and the Colorado Water Conservation Board (CWCB) for more comprehensive listings.

Floodplain – Colorado 100-year Preliminary

As with the 100-year Effective download, Floodplain_Colorado_100yr_Preliminary.zip contains eight files for Aggregate of FEMA DFIRM (digital vector only) 'Zone A' effective 100-year floodplain extents for Colorado.

Production Data

Production Data ▾

[Production Summaries ▶](#)

[All Production Reports Received By Year ▶](#)

[Production and Sales by County \(1999 - Present\) - Database Search](#)

[Oil and Gas Production by County \(1995 - 2000\)](#)

Production Summaries

Starting from 1999 onward production summaries provide annual data for a given API. Clicking on the download link will provide a zip file containing an access database file (.mdb) with two tables in them. The Colorado Annual Production table includes annual oil, gas, and water production for each formation a well produces from. The Colorado Well Completions table individually lists the completed formation for a given API number and includes spud date, TD date, wellbore status, and date of first production among other attributes. Included are several queries to search for various information using the provided data tables.

ALL Production Reports Received by Year

Also starting from 1999 onward; Rather than a summary, the provided CSV file, available both as a zip file or uncompressed, contains every production report for a well received by the commission for that year. The Data Dictionary for Production Files link provides names and a brief description of what each column contains.

ECMC DATA DOWNLOAD

Production and Sales by County

[Coalbed Methane Produced](#) [Coalbed Methane Sold](#) [Coalbed and Nat. Gas Produced](#) [Coalbed and Nat. Gas Sold](#)
[Oil Produced](#) [Oil Sold](#) [Water Produced](#) [CO2 Produced](#) [CO2 Sold](#)

Monthly Coalbed Methane Produced by County

Production Year

A searchable Report Portal containing data from 1999 to the present, that can provide data for the Coal bed methane produced or sold, natural gas produced or sold, oil produced or sold, water produced, and CO₂ produced or sold by county. Simply click on the link to the report desired, enter a production year, and click on “View Report.”

Oil and Gas Production by County

A website that provides a summary of Oil and gas produced by each county in Colorado from 1995 – 2000.

Spacing Orders (Updated Post-Hearings)

Spacing Orders (Updated Post-Hearings) ▾

[Spacing Orders](#)

Clicking on the “Spacing Orders” link will open a download for CauseOrderTabl_Download.zip. Within the zip file is a Microsoft Access database file containing a table with: section, twp, range, meridian, cause number, order number, well density, unit size, formation code, and a link, for all spacing orders approved by the commission.

Statistics

Archived Historical Data

Monthly Oil and Gas Price Indices (1998 – 2013)

Provided as a pdf file, each link contains the Colorado Composite Index for oil or gas for the give fiscal year.

Production and Sales by Operator (1998-2000)

Each link goes to website table breaking down the production and sales totals that year by operator.

Oil and Gas Production Value Index (1992 – 2007)

A table of oil and gas production value for each year by county.

Oil and Gas Prices (1995 – 2000)

A list of the posted oil and gas prices for that year by county.

1998 Oil and Gas Production and Sales

A link that provides tables containing, coal bed methane production, gas production and sales, oil production and sales, and water produced by county in 1998.

Weekly/Monthly Well Activity (Updated Monthly)

This PDF file contains various statistics, updated monthly, on well activity in Colorado. Such as number of permits for horizontal and directional wells, Number of permits by county, number of drilling rigs running, etc.