

Water & Injection Management

Frequently Asked Questions

Where are existing injection wells located that are used for flooding, or pressurizing a field?

By understanding where wells are located, and who owns them, a competitive benchmark can be set, and new fields identified to explore for new wells.

Do I need to drill my own Salt Water Disposal (SWD) wells?

By monitoring injection Pressure and Volume, the capacity of wells calculated and monitored with an alert enabled as capacity is reached. By monitoring companies can identify when additional capacity is needed, and whether nearby drilling is an option.

Do nearby commercial SWDs have spare capacity?

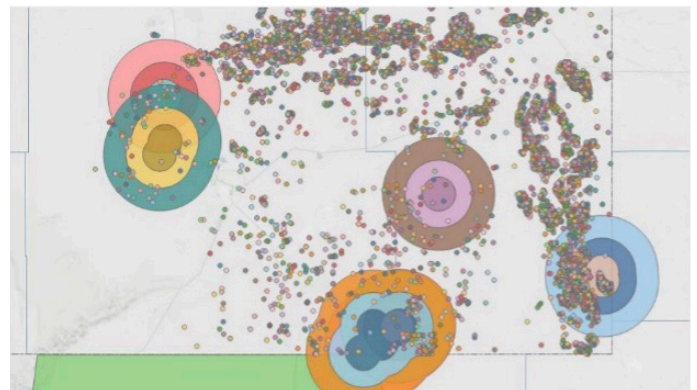
As SWD wells near capacity identification of other wells in close proximity can be an attractive alternative to drilling additional wells. Commodity Insights has that data in the states we cover.

Where is a commercially viable location to drill a disposal and water treatment facility?

Both seismic (including Seismic Response Areas for TX and NM) and geological data is vital when assessing potentially suitable wells. With seismic activity associated with historic E&P development, companies are keen to avoid subterranean formations that possess the characteristics and potential for earthquakes. Firms are liable for damage caused by their operations and costs can be extremely high

What formation do I inject into?

Geological and seismic data helps identify suitable formations and PRODFit provides the accuracy and insight as to where the injection is actually being applied.



Seismic Response Areas and injection Wells

Should I purchase existing wells?

Purchase of existing wells is an alternative to drilling new wells. Commodity Insights can locate nearby wells and provide data on available capacity, as well as information like existing tubular design to ensure the most economical decision is made.

What pipeline infrastructure is available for the transport of water to disposal wells?

Most H2O disposal is transported by road, CO2 by pipeline. This solution can provide pipeline infrastructure for both as an alternative transportation method.

What are the maximum volume and pressure limits in an individual state where injection is permitted?

Volume and Pressure limitations vary from State to state. Commodity Insights regularly updates its database as limits are changed by regulatory authorities. Currently there are 240k US injection wells of which 1,917 are based in Alaska.

For US States covered please see below.

	US State Capture Volumes	US State Capture Pressures	Maximum Permitted Volume and Pressure
Alaska	x	x	
Arkansas	x	x	x
Colorado	x		
Gulf of Mexico	x		
Illinois			x
Indiana			x
Kansas	x	x	x
Louisiana	x	x	
Michigan			x
Montana	x	x	
New York			x
North Dakota	x		
New Mexico	x	x	
Oklahoma	x	x	x
Ohio			x
Pennsylvania			x
South Dakota	x	x	
Texas	x	x	x
Utah	x		
Wyoming	x	x	

Alabama, California, and Mississippi volumes and/or pressures coming Q-3

Note: The volumes and pressures of individual SWDs and injection wells in Texas and Louisiana are only available from Commodity Insights. Competitors can only provide data at lease level for commercial SWD

Are other states going to be included in the Water and Injection Management product?

Alabama, California, and Mississippi are planned for Q3 2023

What type of data can be accessed?

Data on injection pressure and volume. Example below.

- number of days during month injection was active
- maximum pressure reported for any day of month psi.
- average pressure reported for month psi.
- total liquid volume injected for month bbl.
- maximum liquid volume injected for any day during month bbl./day
- total gas volume injected for month mcf.
- maximum gas volume injected for any day during month mcf/day

How can the Water and Injection Management capabilities be accessed?

This is available via Snowflake/API and Consultancy services.

Where can I get more information?

To learn more about S&P GLOBAL COMMODITY INSIGHTS Water and Injection Management Technology please visit:

Website Address:

<https://www.spglobal.com/commodityinsights/en/ci/products/water-and-injection-management.html>

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