



## MAP COORDINATE CONVERSION TOOLS

### Determine and Convert X,Y Locations

Office of the State Engineer

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The websites suggested on this page enable conversion between commonly used map coordinate systems (x,y location) or can determine a simple x,y location. The NM OSE is providing these links as a service to our customers. However, the NM OSE is not responsible for their content. The State Engineer requires the following formats for well record and application submittals:

**Well Records:** (GPS well location)

Lat long – degrees, minutes, seconds (WGS 84  $\cong$  NAD 83)

**Groundwater Applications:** Points of Diversion (Wells)

NM State Plane – feet – NAD 83

UTM – meters – NAD 83

Lat long – degrees, minutes, seconds (WGS 84  $\cong$  NAD 83)

**Surface Water Applications:** Points of Diversion

NM State Plane – feet – NAD 27 or NAD 83

Lat long – degrees, minutes, seconds (WGS 84  $\cong$  NAD 83)

<http://itouchmap.com/latlong.html>

- Determines latitude and longitude
- Converts between Lat long – degrees, minutes, seconds and Lat long – degrees
- Allows address input or lat long input to show the point location against a background of aerial photography, terrain, or a street map.

<http://www.fcc.gov/mb/audio/bickel/DDDMSS-decimal.html>

- Converts between Lat long – degrees, minutes, seconds and Lat long – degrees

<http://www.ngs.noaa.gov/TOOLS/>

- Converts between Lat Long – deg min sec and [UTM](#) or [State Plane](#)
  - UTM: [http://www.ngs.noaa.gov/cgi-bin/utm\\_getut.pr](http://www.ngs.noaa.gov/cgi-bin/utm_getut.pr)
  - SPC: <http://www.ngs.noaa.gov/TOOLS/spc.shtml>
- Note Format – Latitude N 35° 40' 26.36" is entered as N354026.36

<http://www.geocommunicator.gov/SiteMapper6/map.jsp>

- Determines lat long (visible below the screen map)
- Determines township section range to the qtr – qtr –qtr sections
  - Use the 'Township' Button
- Generates legal description – use 'Sketch' and 'Derive LD' buttons
- Displays aerial photography nationwide
  - Go to: Layer > Basemaps > Digital Ortho Imagery
- Displays topographic maps nationwide
  - Go to: Layer > Basemaps > Topo Map
- Note – Use Internet Explorer not Mozilla Firefox

For more information on water rights administration within New Mexico, please see the OSE website, [http://www.ose.state.nm.us/water\\_info\\_water\\_rights.html](http://www.ose.state.nm.us/water_info_water_rights.html), which includes a link to the OSE district offices.