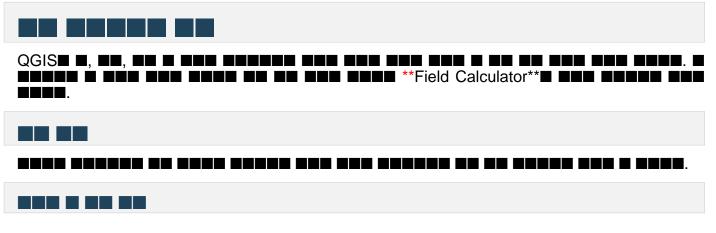
Calculating Line Lengths and Statistics

QGIS Tutorials and Tips

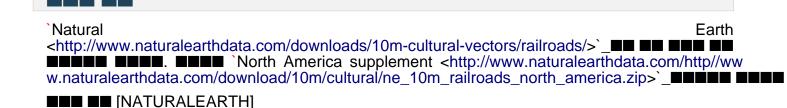


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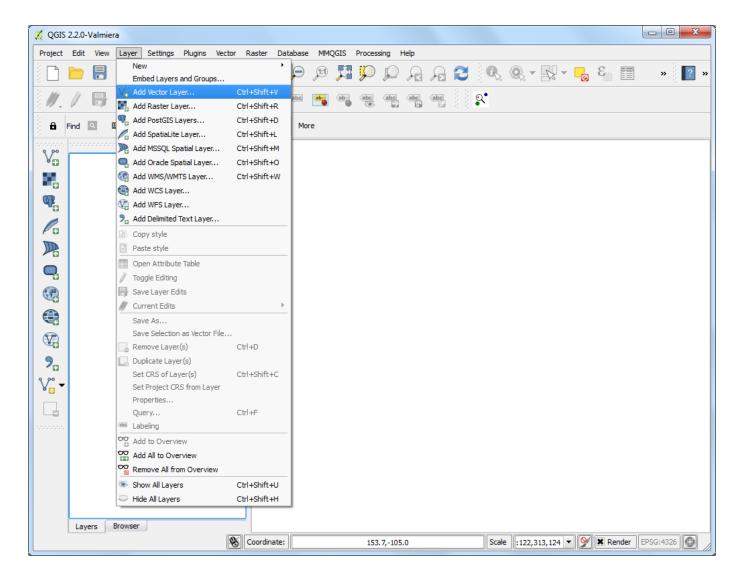
Translations by SongHyun Choi



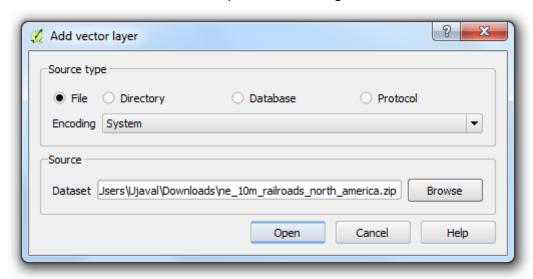
- ---
- ■■■■■■ ■■■ (Projected Coordinate Reference System, CRS)■ ■■■ ■■.
- ----



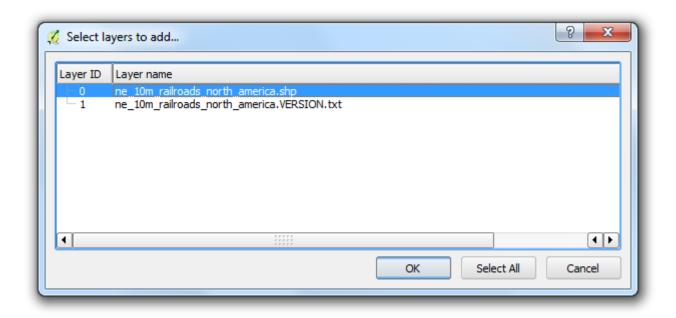
1. ■■■■ :menuselection:`Layer --> Add Vector Layer`■ ■■■■.

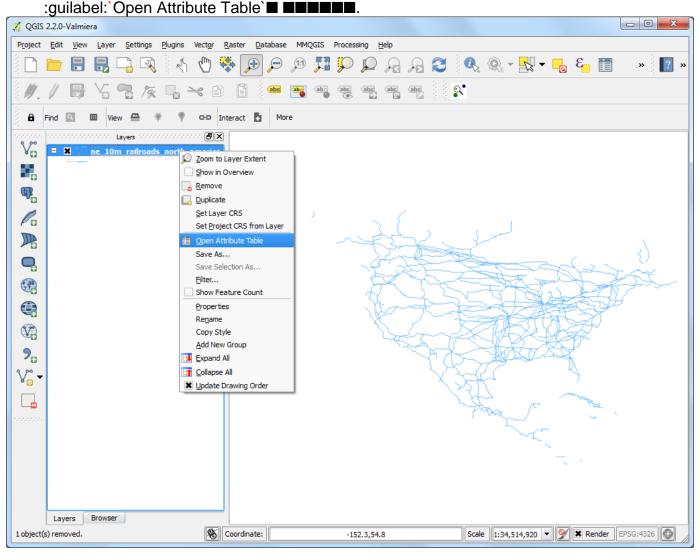


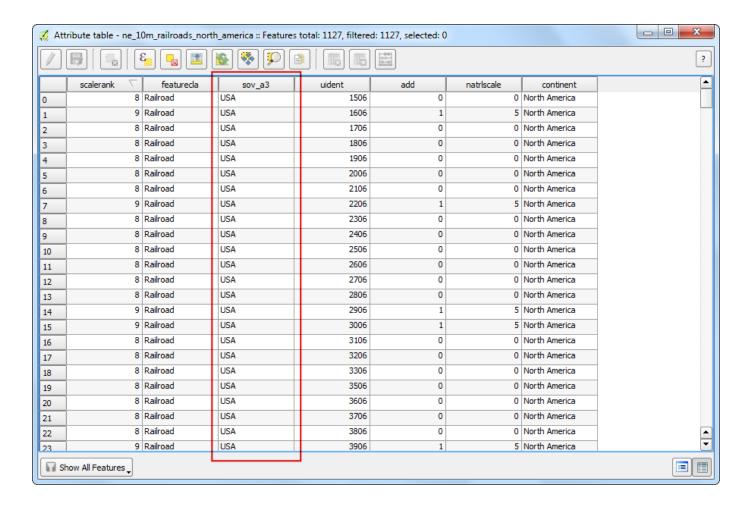
2. ``ne_10m_railroads_north_america.zip``■■■ :guilabel:`OK`■ ■■■■■■.



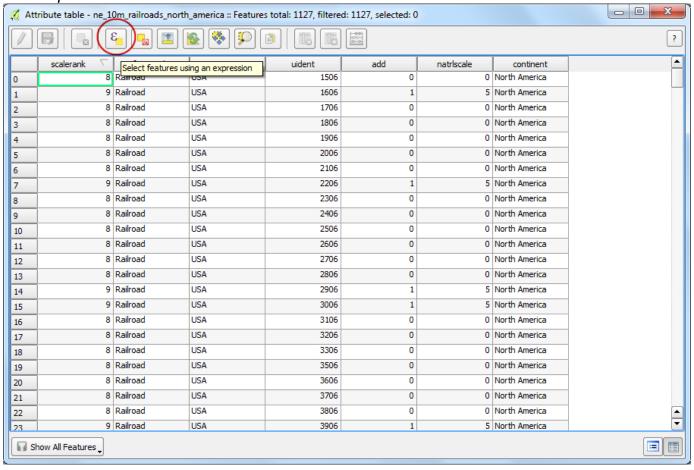
3. In the Select layers to add... dialog, choose ne_10m_railroads_north_america.shp layer.



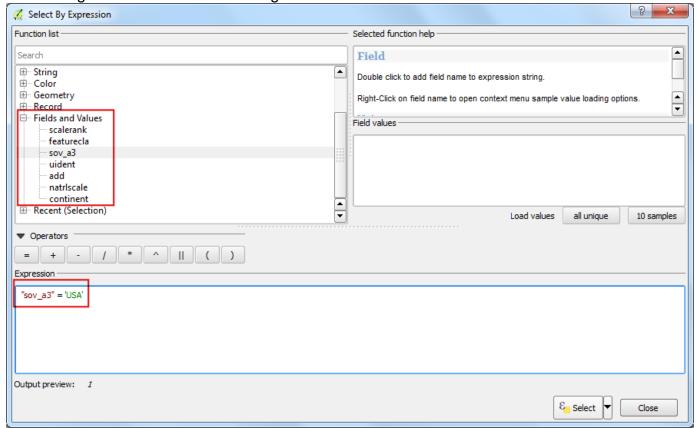




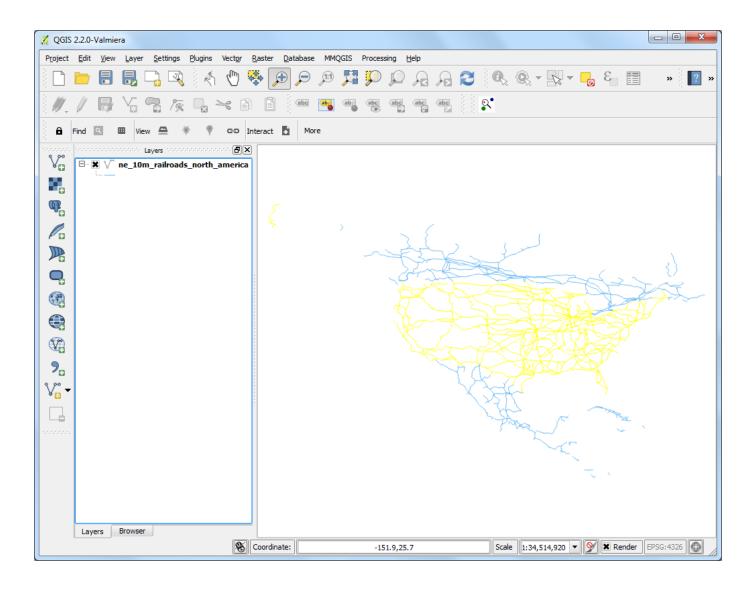
6. A Attribute Table All IIII IIII :guilabel: Select features using an expression IIII IIIIII.

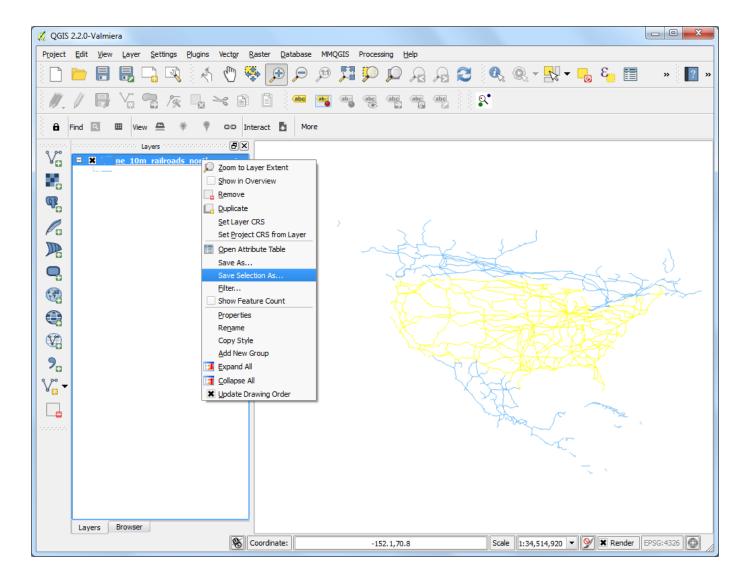


7. Select By Expression Select By Sov_a3` Select By Expression Select By Sov_a3` Select By Expression Select Selec



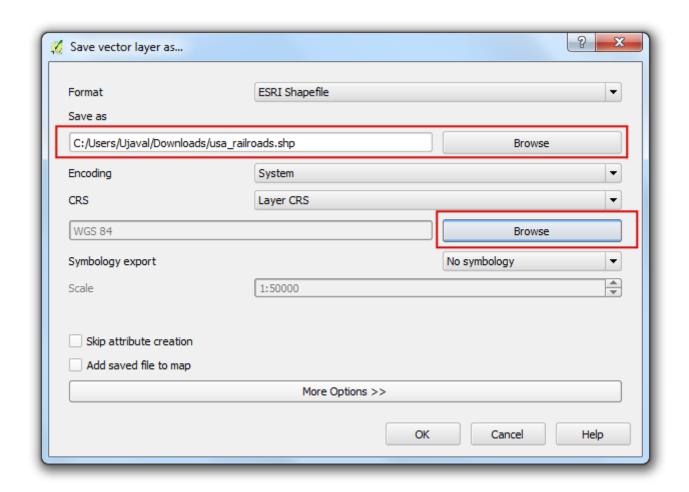
8. Back in the main QGIS window, you will see that all lines that fall in USA are selected and appear in yellow.



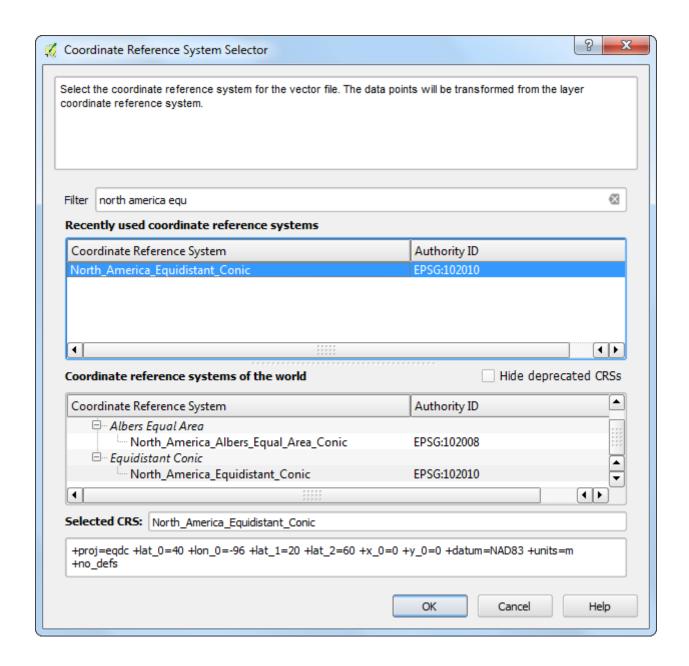


10. ■■ :guilabel:`Browse`■ ■■■■ ■■■■■ ``usa_railroads.shp``■ ■■■■. :guilabel:`CRS`■ ■■■ :guilabel:`Browse`■ ■■■■■.

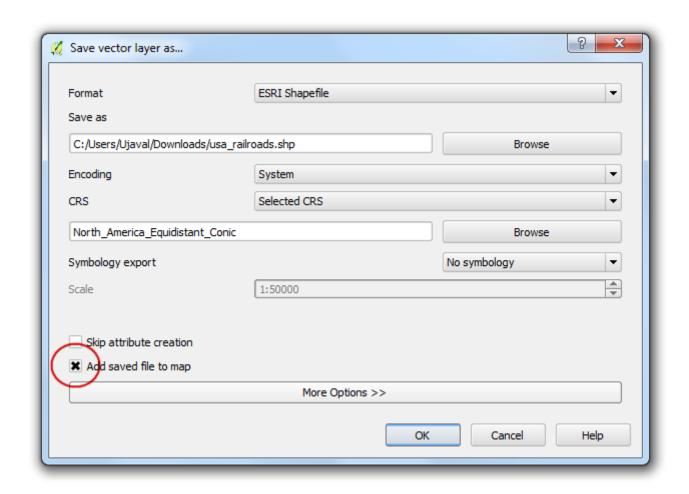
Note



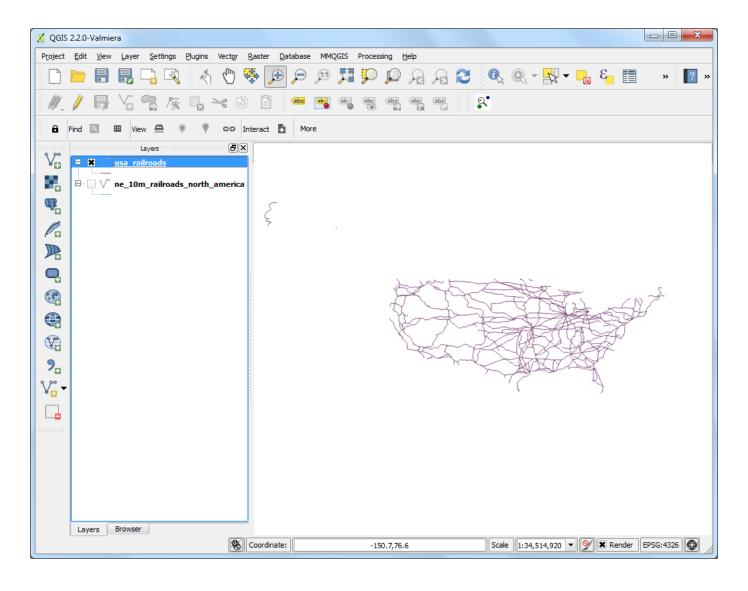
11. ■■■ ■■■■ ■■■ ■■■■■■■ :guilabel:`Filter`■ ■■ :guilabel:`north america equ`■ ■■■■■ CRS■ :guilabel:`North_America_Equidistant_Conic EPSG:102010`■ :guilabel:`OK`■



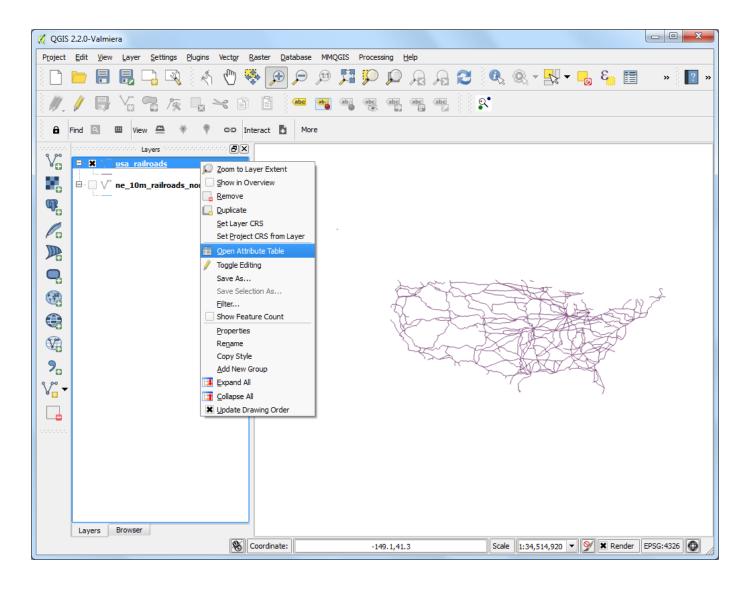
12. ■ ■■■ ■■■ ■■■■ Save vector layer as... ■■■■■■■ ■■■ ■■■ ■■■ ■■■ :guilabel:`Add saved file to map`■ ■■■■ :guilabel:`OK`■ ■■■■■.

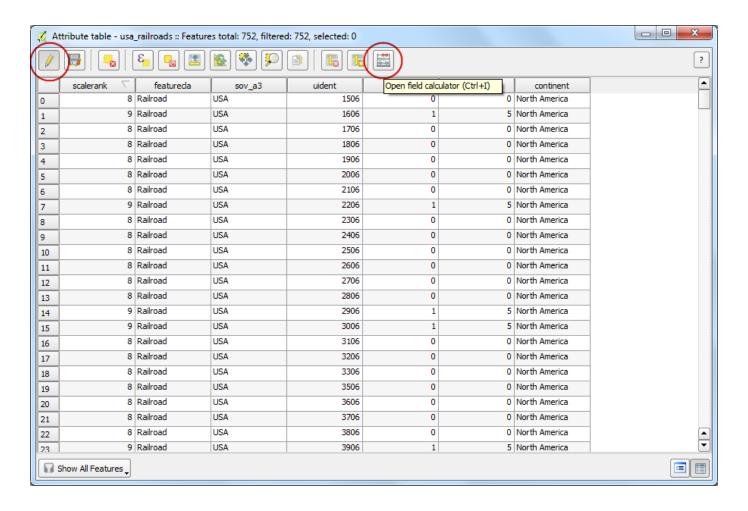


usa_railroads``**IIII** QGIS**I IIII**. **III** ``ne_10m_railroads_north_america

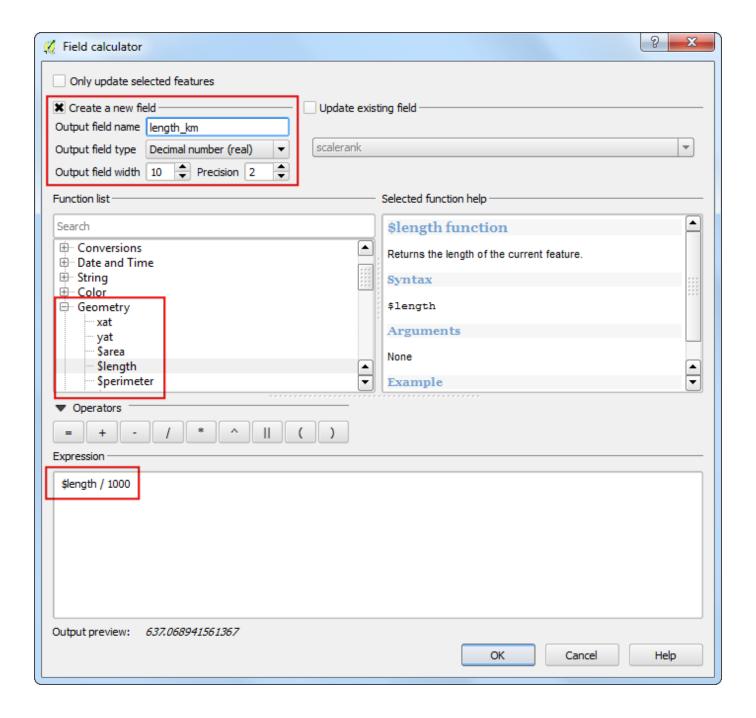


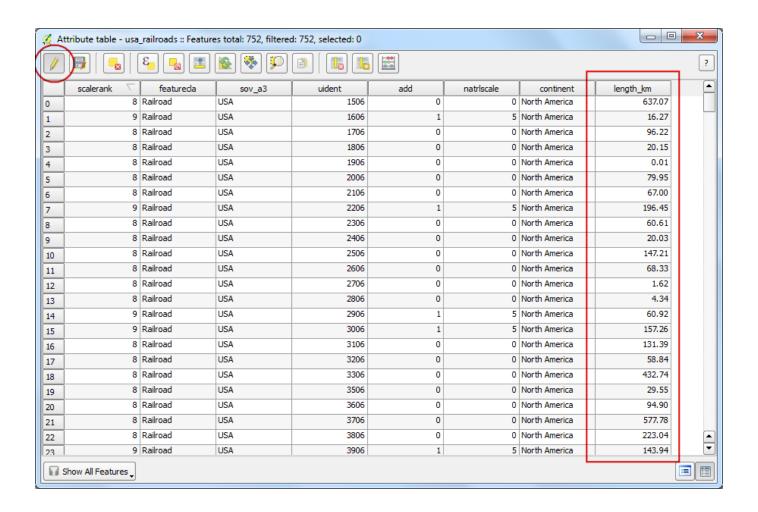
14. ``usa_railroads``■■■■■■■■■■■■■■■■ :guilabel:`Open Attribute Table`■





16. ■■■■ Field Calculator ■ ■ ■ :guilabel: `Create a new field ■ ■■■ :guilabel: `Output field name `■ **length_km**■ ■■■■ :guilabel: `Output field type `■ ■■ **Decimal number (real)** ■ ■■■■ :guilabel: `Precision `■ **2**■ □■■ :guilabel: `Function list `■■ :guilabel: `Geometry □■■■ :guilabel: `\$length `■ ■■■ :guilabel: `Expression `■ **km**■ ■■■■ :\$length / 1000 ``■ ■■■■■ .OK :guilabel: `OK ■ ■■■■■ .

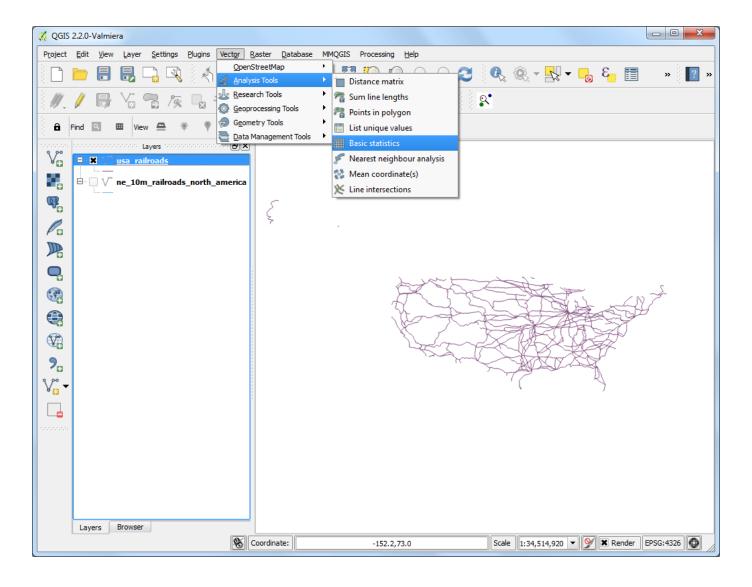




18.

Total

Total



19. ■■■■■■ :guilabel:`Input Vector layer`■ ``usa_railroads``■ ■■■■. ■■■■ :guilabel:`Target field`■ ``length_km``■ ■■■■ :guilabel:`OK`■ ■■■■■. □■ :guilabel:`OK`■ ■■■■■.



