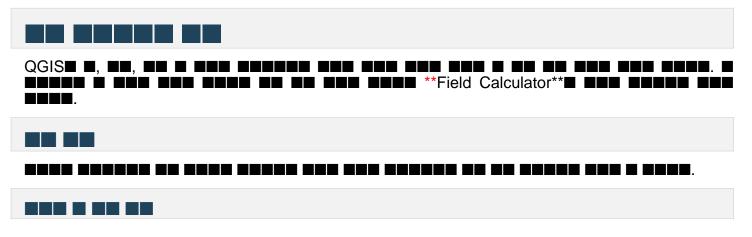
Calculating Line Lengths and Statistics

QGIS Tutorials and Tips



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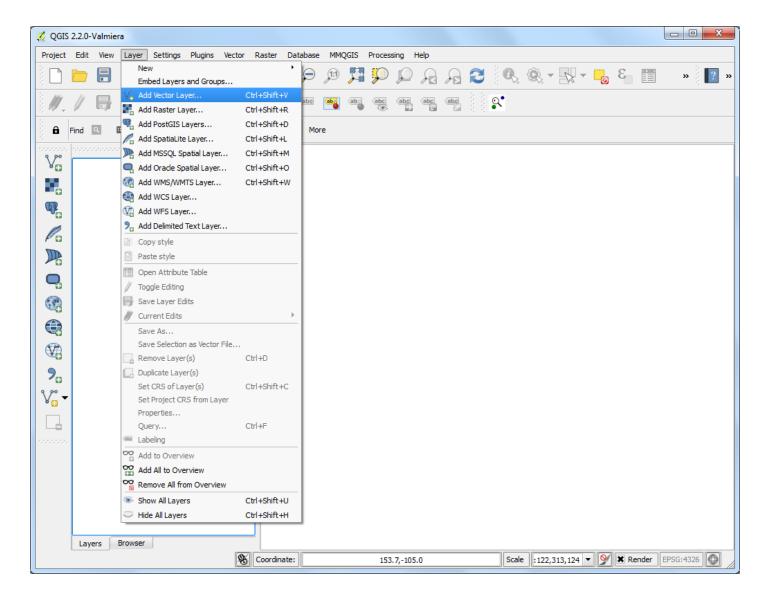
Translations by SongHyun Choi



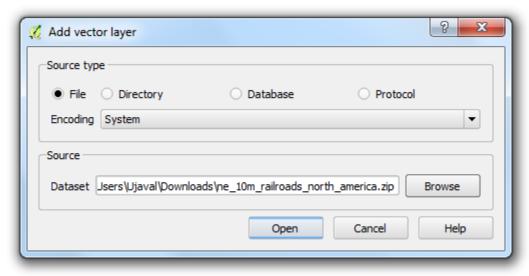
- === ==== ===
- ■■■■■■ ■■■ (Projected Coordinate Reference System, CRS)■ ■■■ ■■.
- ===== ==== == ==



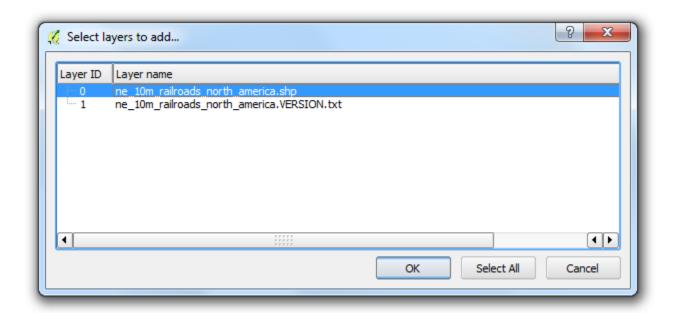
1. ■■■■ :menuselection:`Layer --> Add Vector Layer`■ ■■■■.



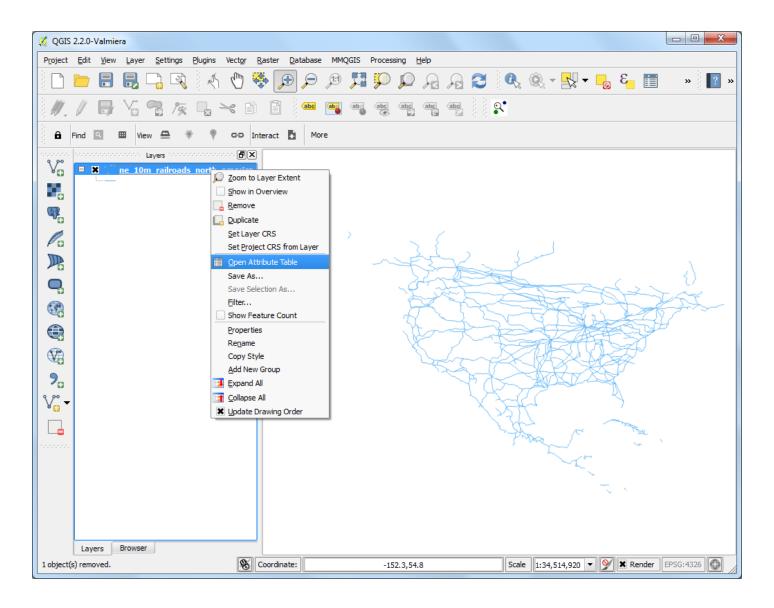
2. ``ne_10m_railroads_north_america.zip``■■■ :guilabel:`OK`■ ■■■■■■.

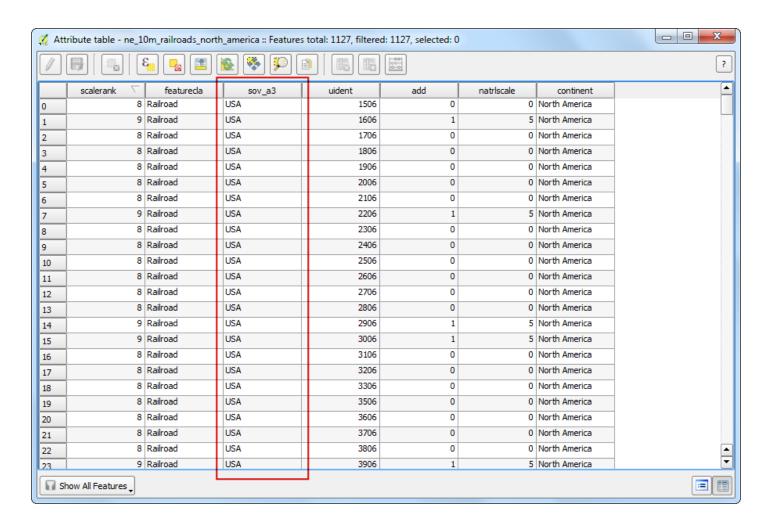


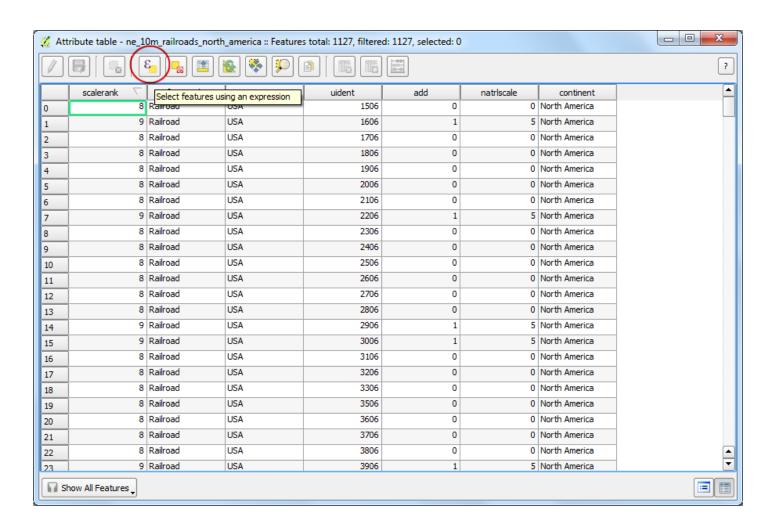
3. In the Select layers to add... dialog, choose ne_10m_railroads_north_america.shp layer.



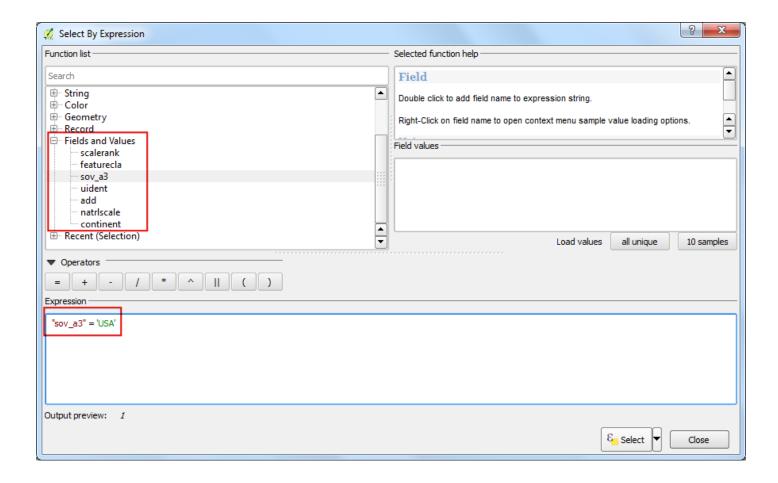
4. In the second of the second



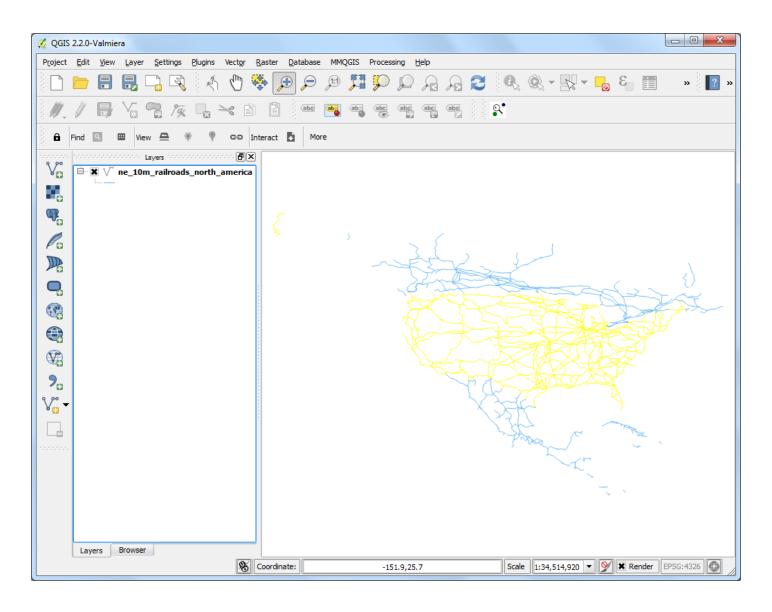


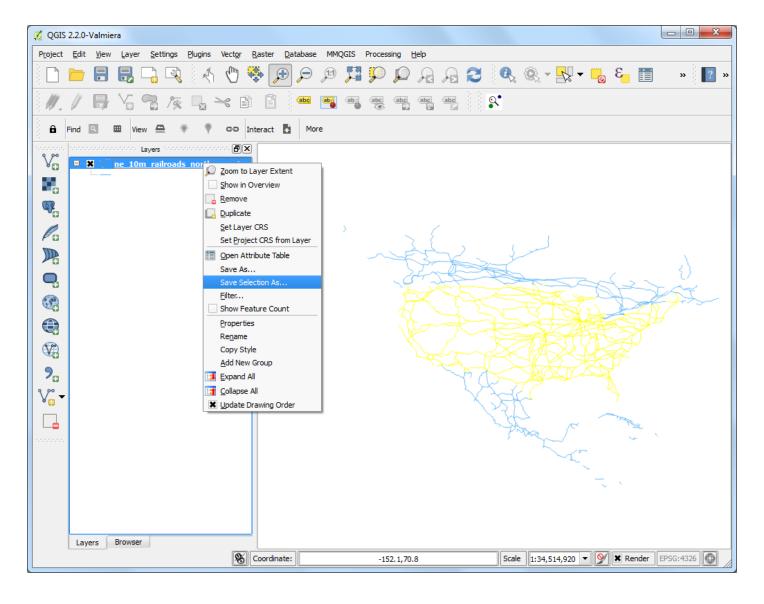


7. Select By Expression Select By Expression Sov_a3` Select By Expression Sov_a3` Select Sele

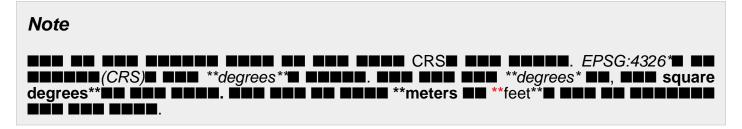


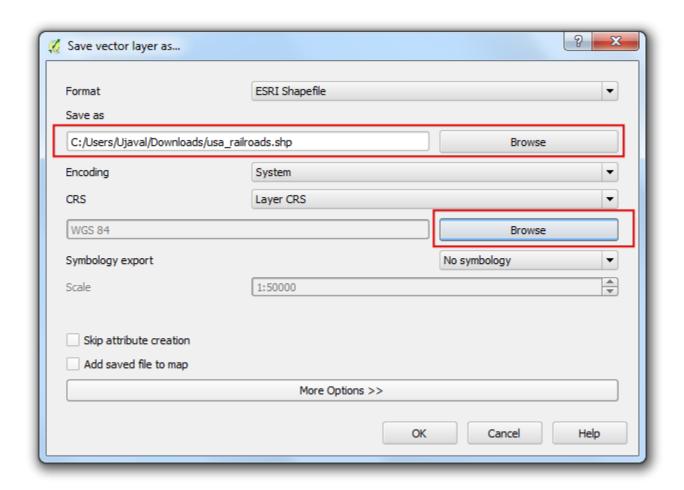
8. Back in the main QGIS window, you will see that all lines that fall in USA are selected and appear in yellow.



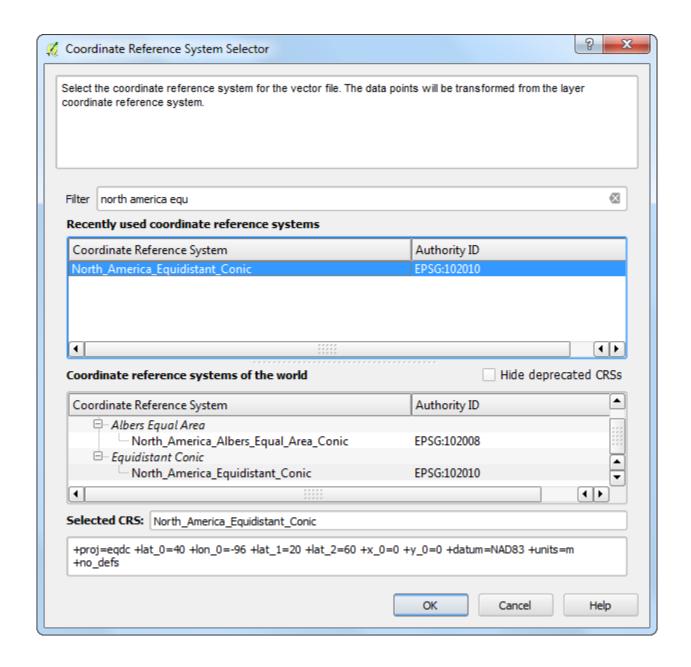


10. ■■ :guilabel:`Browse`■ ■■■■ ■■■■■ ``usa_railroads.shp``■ ■■■■ CRS■ □■■ :guilabel:`CRS`■ ■■■ :guilabel:`Browse`■ ■■■■■.

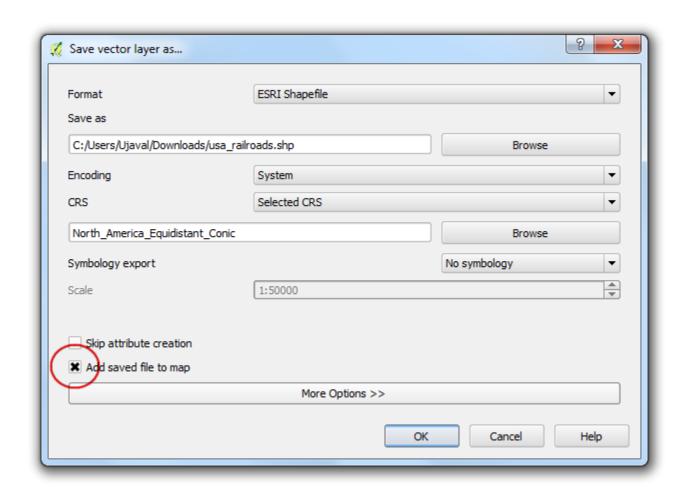


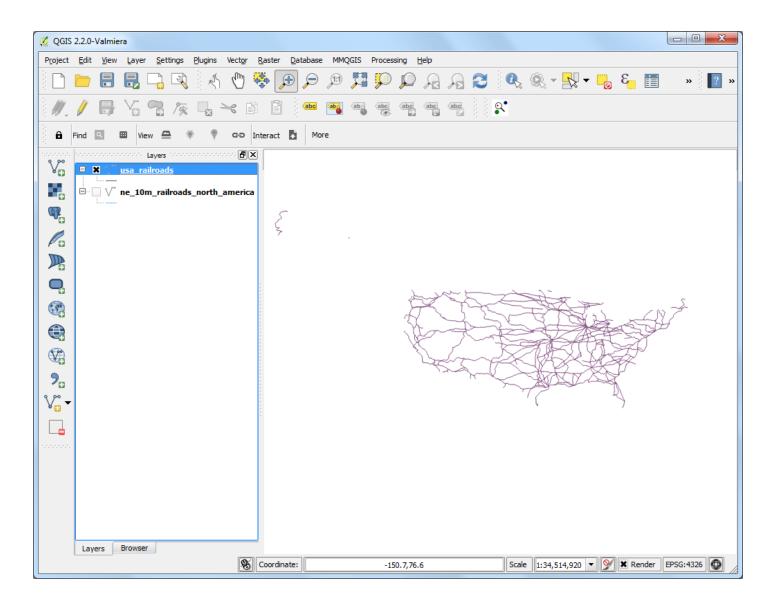


11. ■■■ ■■■■ :guilabel:`Filter`■ ■■ :guilabel:`north america equ`■ ■■■■ :guilabel:`North_America_Equidistant_Conic EPSG:102010`■ ■■■■ :guilabel:`OK`■ ■■■■■.

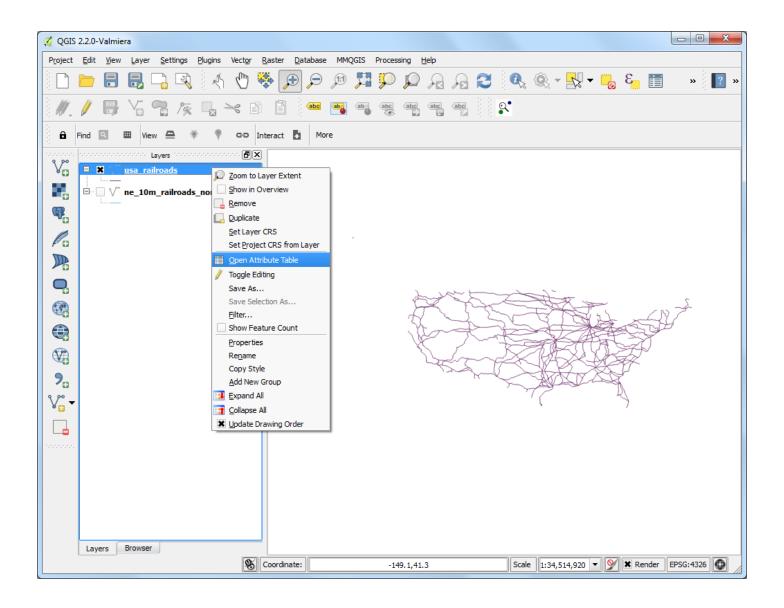


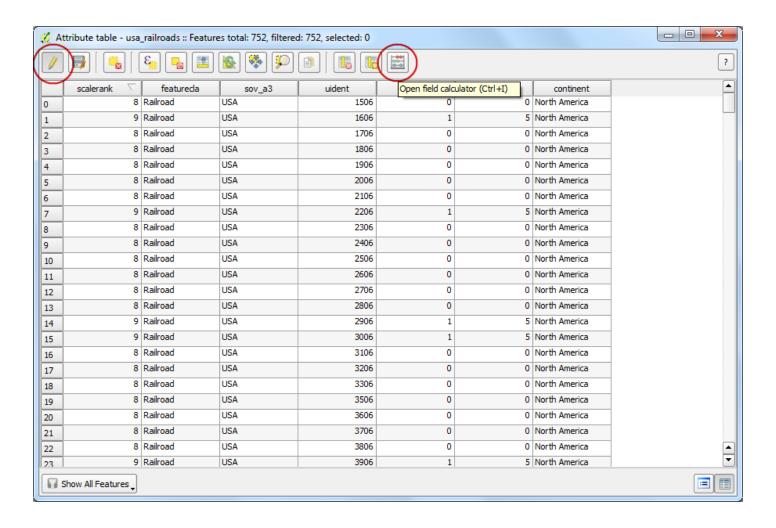
12. ■ ■■■ ■■■ ■■■■ Save vector layer as... ■■■■■■■ ■■■ ■■■ ■■■ ■■■ :guilabel:`Add saved file to map`■ ■■■■ :guilabel:`OK`■ ■■■■■.



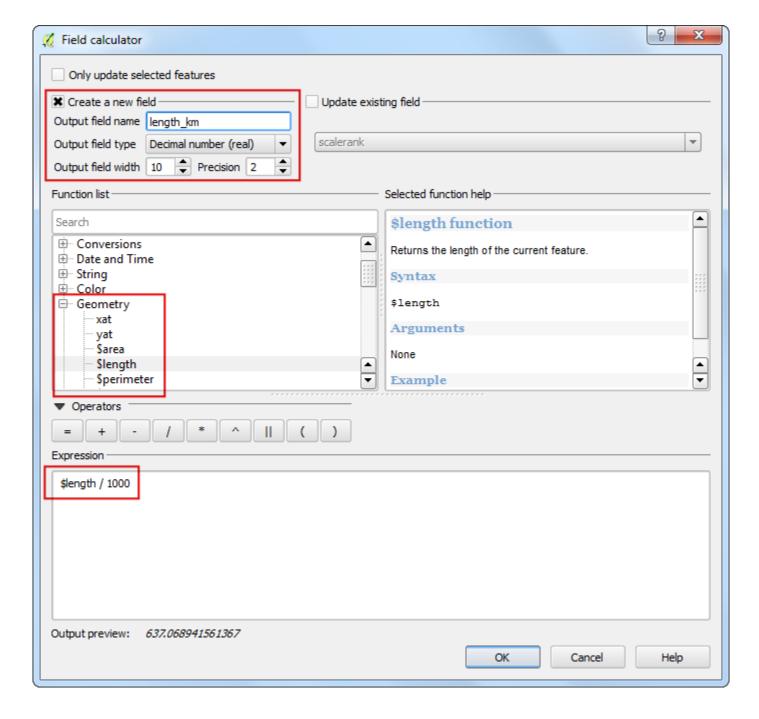


14. ``usa_railroads``■■■■■■■■■■■■■■■■ :guilabel:`Open Attribute Table`■

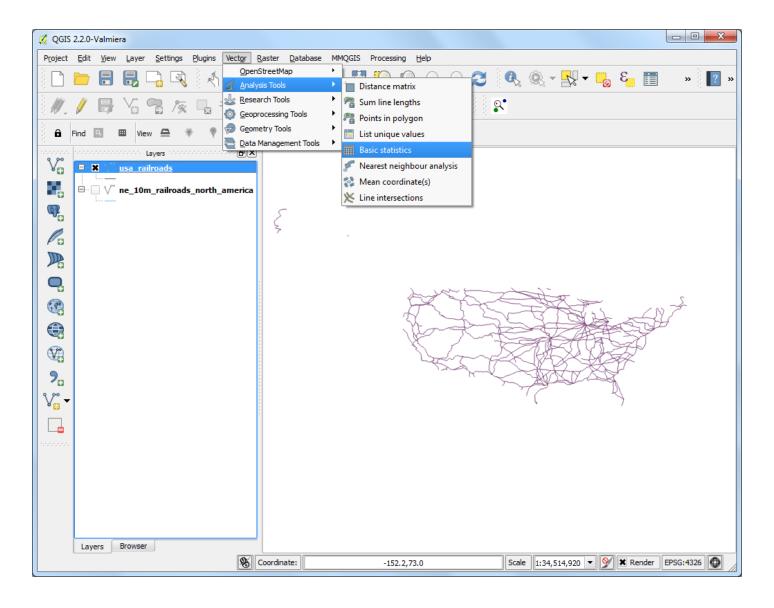




16. Image: Field Calculator | Image: Guilabel: Create a new field | Image: Guilabel: Output field name | **length_km** | Image: Guilabel: Output field type | Image: The circulate | **Decimal number (real)** | Image: Guilabel: Precision | Image: Guilabel: Precision | Image: Guilabel: Geometry | Image: Guilabel: Geometry | Image: Guilabel: Geometry | Image: Geometry | Ima



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	scalerank \(\nabla\)	featureda	sov_a3	uident	add	natriscale	continent	length_km	
	8	Railroad	USA	1506	0	0	North America	637.07	
	9	Railroad	USA	1606	1	5	North America	16.27	l
2	8	Railroad	USA	1706	0	0	North America	96.22	l
3	8	Railroad	USA	1806	0	0	North America	20.15	
4	8	Railroad	USA	1906	0	0	North America	0.01	l
5	8	Railroad	USA	2006	0	0	North America	79.95	
5	8	Railroad	USA	2106	0	0	North America	67.00	
7	9	Railroad	USA	2206	1	5	North America	196.45	
3	8	Railroad	USA	2306	0	0	North America	60.61	l
9	8	Railroad	USA	2406	0	0	North America	20.03	ı
10	8	Railroad	USA	2506	0	0	North America	147.21	l
11	8	Railroad	USA	2606	0	0	North America	68.33	
12	8	Railroad	USA	2706	0	0	North America	1.62	
13	8	Railroad	USA	2806	0	0	North America	4.34	l
14	9	Railroad	USA	2906	1	5	North America	60.92	ı
15	9	Railroad	USA	3006	1	5	North America	157.26	l
16	8	Railroad	USA	3106	0	0	North America	131.39	ı
17	8	Railroad	USA	3206	0	0	North America	58.84	
18	8	Railroad	USA	3306	0	0	North America	432.74	
19	8	Railroad	USA	3506	0	0	North America	29.55	
20	8	Railroad	USA	3606	0	0	North America	94.90	
21	8	Railroad	USA	3706	0	0	North America	577.78	
22	8	Railroad	USA	3806	0	0	North America	223.04	
23	9	Railroad	USA	3906	1	5	North America	143.94	



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



