

School Clustering in Calgary and Edmonton

Data

- ▶ <http://alberta.compareschoolrankings.org/elementary/SchoolsByRankLocationName.aspx>
- ▶ https://github.com/clairvoan/Coursera_Capstone_NY/blob/master/Calgaryschool.csv
- ▶ https://github.com/clairvoan/Coursera_Capstone_NY/blob/master/Edmontonnschool.csv

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Home Schools by rank, location, name Schools by Bing® maps Compare Schools

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Alberta Elementary Schools PDF version High Schools PDF version

1. Type the name of the school you are looking for here
or use the *School name* drop down box below. [SEARCH](#)

2. To see a *school's results* click on the school's name in the list on the right

3. To find schools by location or by other characteristics
OR
To select schools for comparison, USE the drop down boxes below.

4. If you can't find your school, click [here](#)

[Compare now!](#)
[Add up to six schools to compare](#)
[Clear your choices](#)

[To clear your selections click here](#)

City:






Postal code:

School authority (district):

School name:

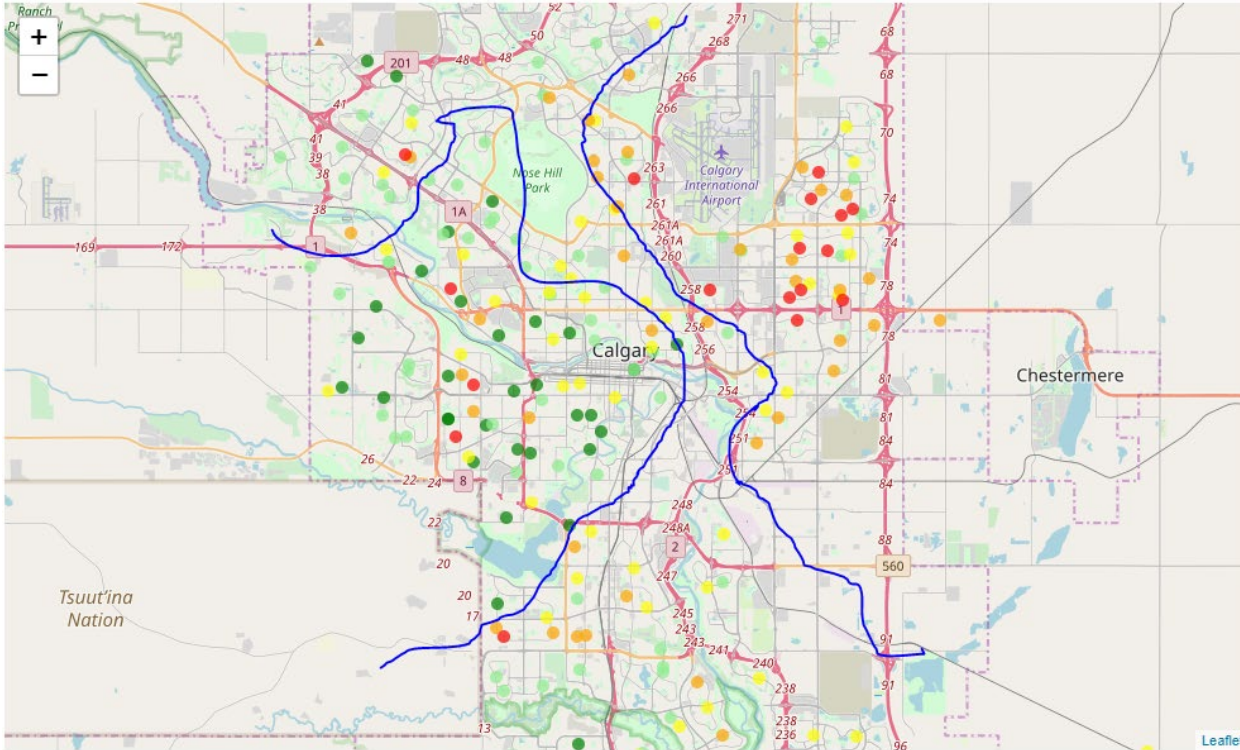
2017-18 Rank	Rank in the most recent five years	Trend	School Name	City	2017-18 Rating	Rating in the most recent five years	Schools found: 852
1/852	1/664	▲	Master's	Calgary	10.0	9.9	Add to compare
1/852	3/664	—	Windsor Park	Edmonton	10.0	9.6	Add to compare
1/852	10/664	▲	Renart	Calgary	10.0	9.0	Add to compare
4/852	3/664	▲	Webber	Calgary	9.9	9.6	Add to compare
5/852	13/664	—	Sunalta	Calgary	9.6	8.8	Add to compare
6/852	2/664	—	Mount Pleasant	Edmonton	9.5	9.7	Add to compare
6/852	7/664	—	Bundale College	Calgary	9.5	9.2	Add to compare
6/852	9/664	—	Calgary French & International	Calgary	9.5	9.1	Add to compare
9/852	3/664	—	Clear Water	Calgary	9.4	9.6	Add to compare
9/852	6/664	—	Strafford	Edmonton	9.4	9.4	Add to compare

Grouped Data Table: Calgary

	2017-2018Rating	Adj5yrs	latitude	Longitude
Clus_km				
0	6.530189 	6.194340	51.030711	-114.051286
1	8.788571 	8.577143	51.031393	-114.126749
2	3.282353 	4.047059	51.074880	-114.024902
3	7.447826 	7.366667	51.036599	-114.100932
4	5.060526 	5.323684	51.055639	-114.041350

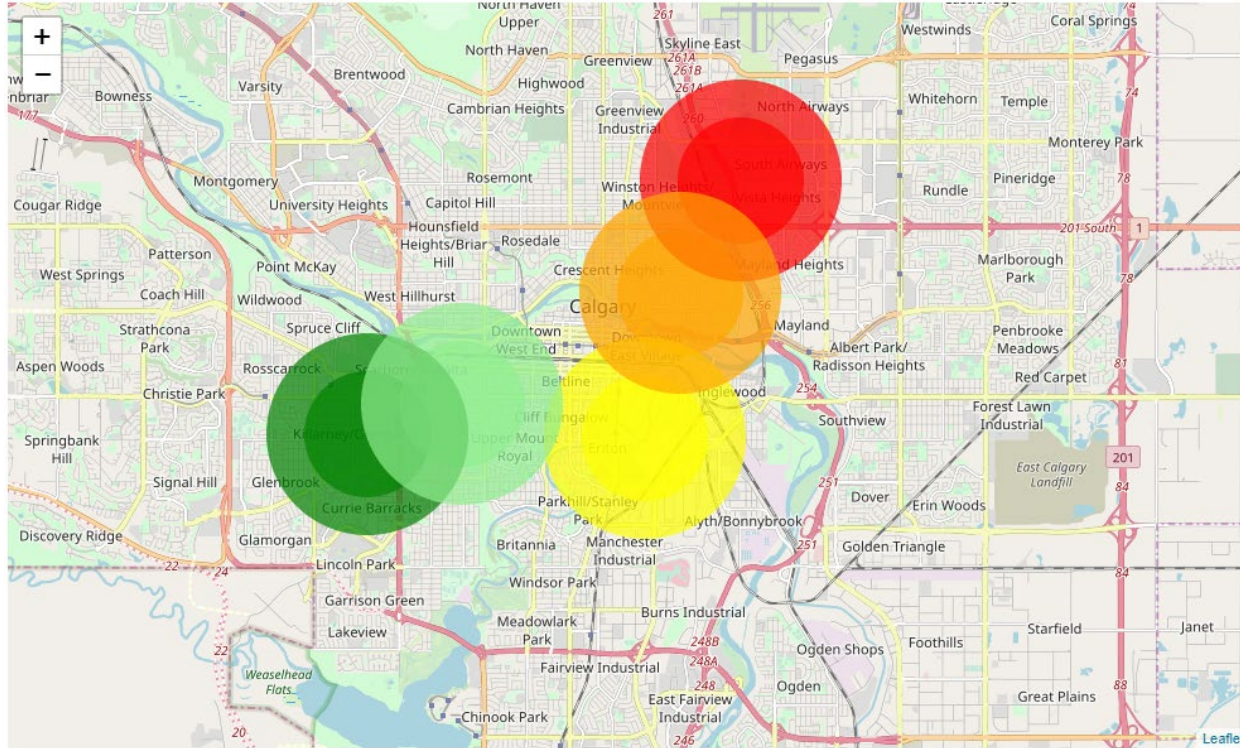
- ▶ The top three clusters are improving in most recent five years
- ▶ The last two clusters' ratings are dropping

Cluster Map: Calgary








- Prominently, west side has much more green and light green markers than the east side.

Cluster Map: Calgary



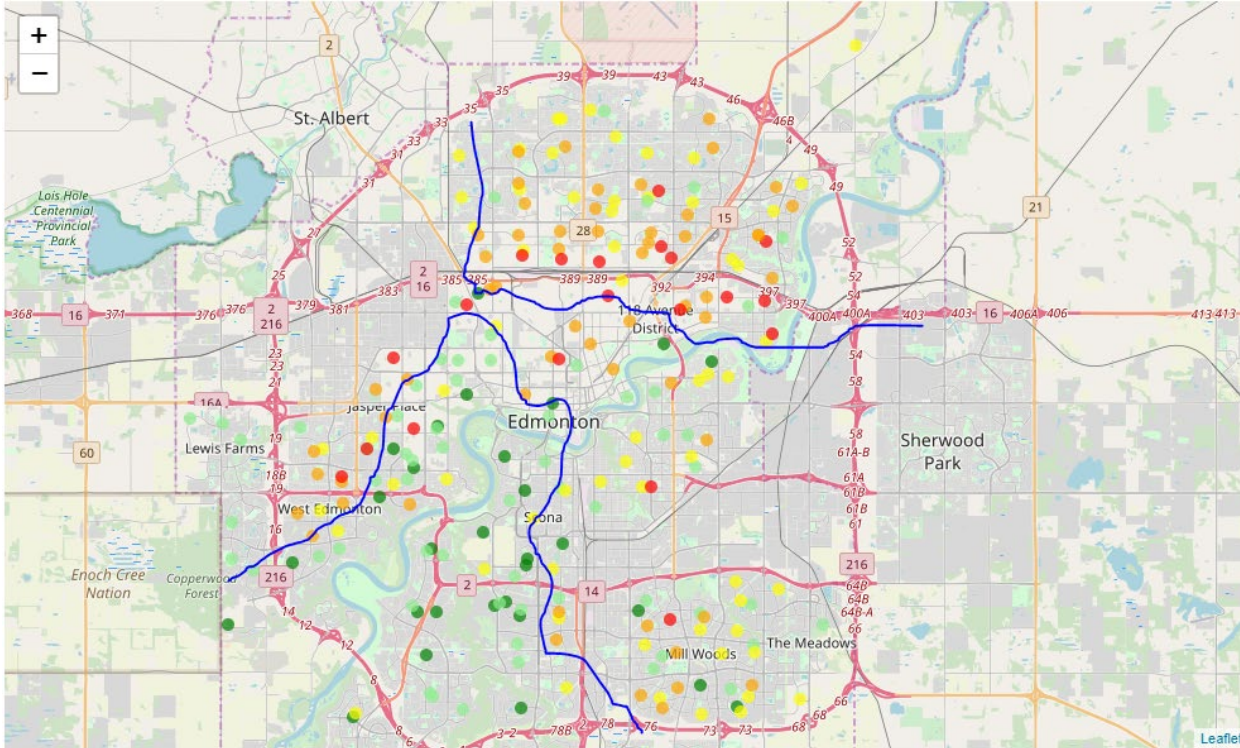
- School zone with better education quality are at the west of Calgary.

Grouped Data Table: Edmonton

	2017-2018Rating	Adj5yrs	latitude	Longitude
Clus_km1				
0	7.075362 	6.997101	53.505077	-113.529910
1	4.329310 	4.670690	53.553680	-113.495149
2	2.335000 	2.665000	53.562676	-113.486807
3	5.795455 	5.843939	53.534498	-113.478428
4	8.313793 	8.258621	53.497126	-113.540522

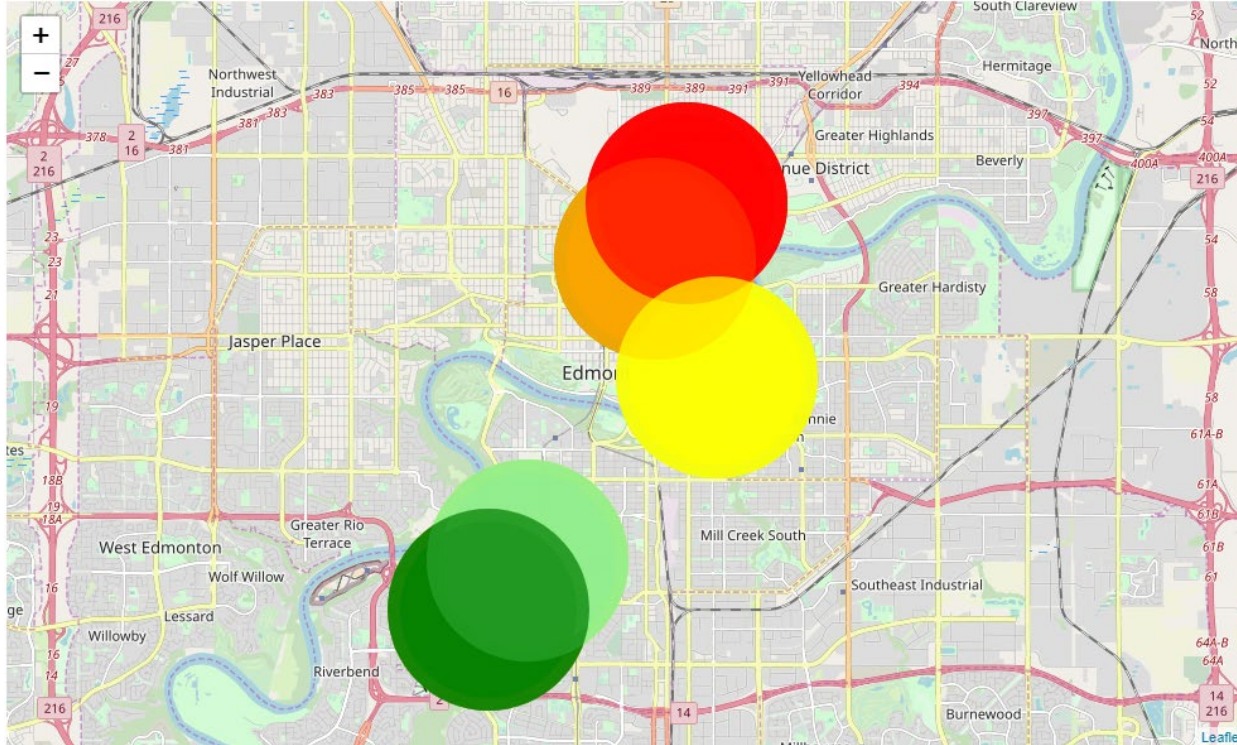
- ▶ The top two clusters are improving in most recent five years
- ▶ The last three clusters' ratings are dropping

Cluster Map: Edmonton



- Prominently, Southwest side has much more green and light green markers than the Northeast side.

Cluster Map: Edmonton



- ▶ School zone with better education quality are at the Southwest of Edmonton.

Conclusion

- ▶ The school clustering analysis presents the decisive result that the West side of Calgary and Southwest area of Edmonton has better education quality.