

Analysis Data File:

Final Richmond Counties COI Inequality by Racial/Ethnic Group Dataset

Unit of Observation

Each row in this dataset represents a specific Richmond county's COI (Child Opportunity Index), meaning that each row corresponds to a specific Richmond, VA county collected from datadiversitykids.org 2020 census.

Variable Definitions and Summaries

1. Census_FIPS_Code

- **Definition:** FIPS code is an 11 digit code that indicates a specific 2-digit-state code, 3-digit-county code, and 6-digit-census tract number. For example, Amelia County, VA in Richmond, VA in year 2012 has the code 51007930101
- **Source Data:**
 - website: datadiversitykids.org
 - Datasets:
 - COI 3.0 overall index and three domains - Child Opportunity Levels, Scores and composite z-scores for the overall index and three domains (2020 census tracts)
 - Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts)
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summary Statistics:**

○
51007930101 51007930102 51007930200 51036600100 51036600200 51036600300 51041100106 51041100107 51041100206
10 10 10 10 10 10 10 10 10
51041100208 51041100209 51041100210 51041100211 51041100212 51041100300 51041100403 51041100404 51041100405
10 10 10 10 10 10 10 10 10
51041100406 51041100407 51041100409 51041100410 51041100505 51041100506 51041100507 51041100508 51041100509
10 10 10 10 10 10 10 10 10
51041100510 51041100600 51041100701 51041100702 51041100704 51041100705 51041100804 51041100805 51041100806
10 10 10 10 10 10 10 10 10
51041100807 51041100812 51041100814 51041100815 51041100816 51041100817 51041100818 51041100819 51041100820
10 10 10 10 10 10 10 10 10
51041100821 51041100822 51041100823 51041100902 51041100907 51041100910 51041100912 51041100915 51041100919
10 10 10 10 10 10 10 10 10
51041100920 51041100921 51041100922 51041100923 51041100924 51041100926 51041100928 51041100929 51041100930
10 10 10 10 10 10 10 10 10
51041100931 51041100932 51041100933 51041100934 51041100935 51041100936 51041100937 51041100938 51041101003
10 10 10 10 10 10 10 10 10
51041101004 51041101007 51041101008 51041101009 51041101011 51041101012 51041101013 51041101014 51041101015
10 10 10 10 10 10 10 10 10
51053840101 51053840102 51053840200 51053840300 51053840400 51053840500 51053840601 51053840602 51053980100
10 10 10 10 10 10 10 10 2
51075400101 51075400102 51075400200 51075400300 51075400400 51075400500 51085320100 51085320200 51085320300
10 10 10 10 10 10 10 10 10
51085320400 51085320500 51085320601 51085320602 51085320701 51085320702 51085320801 51085320803 51085320804
10 10 10 10 10 10 10 10 10
51085320805 51085320901 51085320902 51085321001 51085321003 51085321004 51085321100 51085321201 51085321202
10 10 10 10 10 10 10 10 10

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51085321300	51085321401	51085321402	51085321403	51087200106	51087200108	51087200109	51087200122	51087200123
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51087200124	51087200125	51087200126	51087200127	51087200131	51087200132	51087200133	51087200134	51087200135
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51087200136	51087200137	51087200138	51087200139	51087200140	51087200141	51087200142	51087200143	51087200144
10	10	10	10	10	10	10	10	10
51087200145	51087200146	51087200147	51087200148	51087200149	51087200150	51087200151	51087200152	51087200153
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51087200201	51087200202	51087200301	51087200302	51087200303	51087200305	51087200404	51087200407	51087200409
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51087200411	51087200412	51087200413	51087200414	51087200415	51087200416	51087200417	51087200418	51087200501
10	10	10	10	10	10	10	10	10
51087200502	51087200503	51087200600	51087200700	51087200801	51087200802	51087200805	51087200806	51087200807
10	10	10	10	10	10	10	10	10
51087200904	51087200905	51087200906	51087200907	51087200908	51087201001	51087201002	51087201003	51087201102
10	10	10	10	10	10	10	10	10
51087201103	51087201104	51087201203	51087201204	51087201205	51087201206	51087201403	51087201404	51087201405
10	10	10	10	10	10	10	10	10
51087201406	51087201502	51087201503	51087201504	51087201601	51087201602	51087201701	51087980100	51087980400
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51087950500	51101950101	51101950102	51101950200	51101950300	51127700100	51127700200	51127700301	51127700302
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51145500101	51145500102	51145500201	51145500202	51145500300	51145500400	51149850100	51149850200	51149850301
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51149850302	51149850400	51149850501	51149850502	51183870100	51183870201	51183870202	51183870300	51183870400
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51570830100	51570830200	51570830300	51570830400	51570830500	51670820100	51670820300	51670820400	51670820500
10	10	10	10	10	10	10	10	10
51670820600	51670820700	51670980100	51730810100	51730810300	51730810400	51730810500	51730810600	51730810700
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51730810900	51730811000	51730811100	51730811200	51730811300	51760010201	51760010202	51760010300	51760010401
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51760010402	51760010500	51760010600	51760010700	51760010800	51760010900	51760011000	51760011100	51760020100
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51760020200	51760020300	51760020400	51760020501	51760020502	51760020600	51760020700	51760020800	51760020900
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51760021000	51760021100	51760021200	51760030100	51760030200	51760030501	51760030502	51760040201	51760040202
10	10	10	10	10	10	10	10	10
51760040300	51760040400	51760040500	51760040600	51760040700	51760040800	51760040900	51760041000	51760041100
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51760041200	51760041300	51760041400	51760041600	51760050100	51760050200	51760050300	51760050400	51760050500
10	10	10	10	10	10	10	10	10
51760050600	51760060200	51760060400	51760060501	51760060502	51760060600	51760060700	51760060800	51760060900
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51760061001	51760061002	51760070100	51760070300	51760070400	51760070601	51760070602	51760070700	51760070802
10	10	10	10	10	10	10	10	10
51760070803	51760070804	51760070901	51760070902	51760071002	51760071003	51760071004	51760071100	
10	10	10	10	10	10	10		

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2. Year

- **Definition:** The date of observation.
- **Source Data:**
 - website: datadiversitykids.org
 - **Datasets:**
 - COI 3.0 overall index and three domains - Child Opportunity Levels, Scores and composite z-scores for the overall index and three domains (2020 census tracts)
 - Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts)
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summary Statistics:**

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	Year	n
1	2012	332
2	2013	332
3	2014	328
4	2015	328
5	2016	328
6	2017	328
7	2018	328
8	2019	328
9	2020	328
10	2021	328

3. Native American_AlaskaNative

- **Definition:** The number of children aged 0-17 who are American Indian and Alaska Native alone.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summary Statistics:**

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
○	0.000	0.000	0.000	2.649	0.000	296.887

3. Asian

- **Definition:** The number of children aged 0-17 who are Asian or Pacific Islander alone.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summary Statistics:**

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
○	0.0000	0.0000	0.0636	31.5777	28.9762	924.0000

4. Black_AfricanAmerican

- **Definition:** The number of children aged 0-17 who are Black or African American alone.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summary Statistics:**

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
○	0.00	58.34	158.47	263.26	366.00	2213.00

5. Hispanic

- **Definition:** The number of children aged 0-17 who are Hispanic alone.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summary Statistics:**

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
○	0.00	3.00	33.00	75.33	96.86	1278.00

5. White

- **Definition:** The number of children aged 0-17 who are White alone.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summarized Data:**

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
○	0.0	92.0	352.0	426.1	672.2	2902.0

5. TotalNumberChildren

- **Definition:** The number of children aged 0-17 total.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summarized Data:**

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
○	0.0	486.0	775.5	840.0	1149.2	3741.0

6. County_name

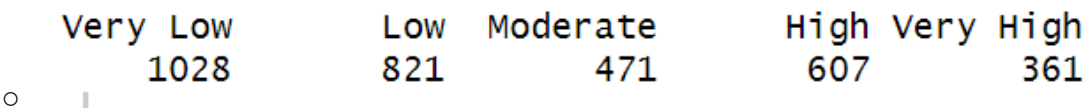
- **Definition:** Richmond counties
- **Source Data:**
 - website: datadiversitykids.org
 - Datasets:
 - COI 3.0 overall index and three domains - Child Opportunity Levels, Scores and composite z-scores for the overall index and three domains (2020 census tracts)
 - Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts)
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summarized Data:**
 - [1] "Amelia County, Virginia"
 - [2] "Charles City County, Virginia"
 - [3] "Chesterfield County, Virginia"
 - [4] "Dinwiddie County, Virginia"
 - [5] "Goochland County, Virginia"
 - [6] "Hanover County, Virginia"
 - [7] "Henrico County, Virginia"
 - [8] "King and Queen County, Virginia"
 - [9] "King William County, Virginia"
 - [10] "New Kent County, Virginia"
 - [11] "Powhatan County, Virginia"
 - [12] "Prince George County, Virginia"
 - [13] "Sussex County, Virginia"
 - [14] "Colonial Heights city, Virginia"
 - [15] "Hopewell city, Virginia"
 - [16] "Petersburg city, Virginia"
 - [17] "Richmond city, Virginia"

7. Metro Name

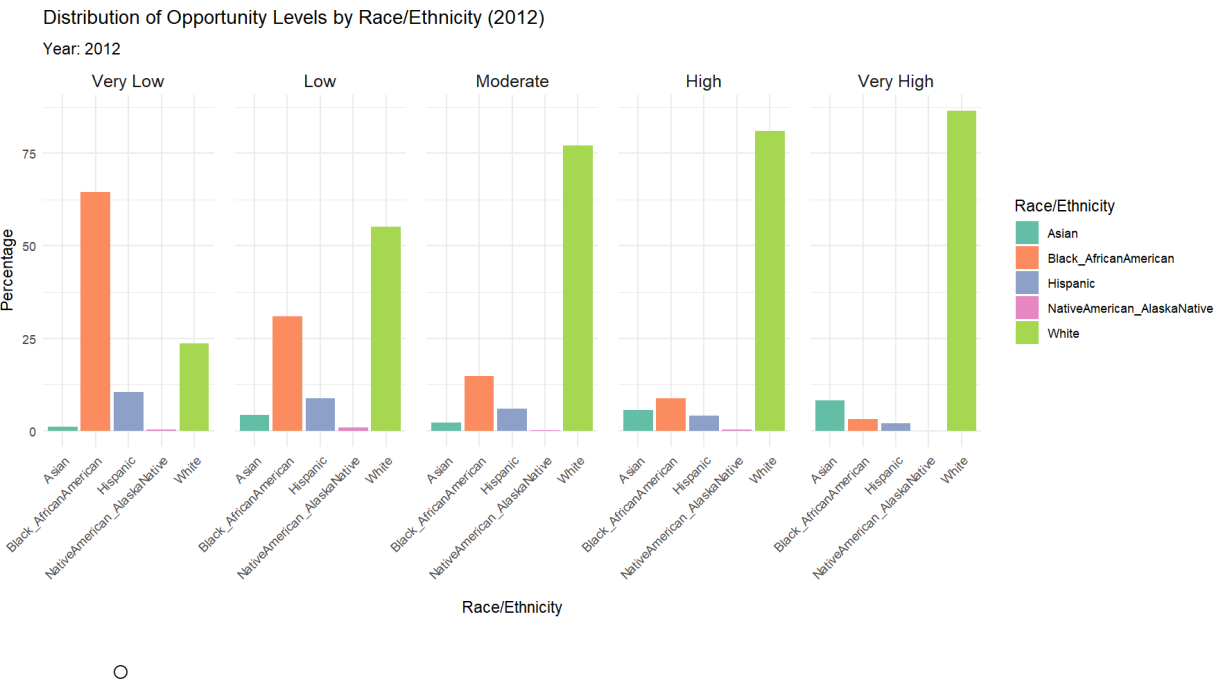
- **Definition:** The number of children aged 0-17 total.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summarized Data:** Every entry is Richmond, VA

8. COI_Level_Metro

- **Definition:** Metro normed Child Opportunity Levels (from very low to very high) for the Child Opportunity Index
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summarized Data:**



● **Visualization**

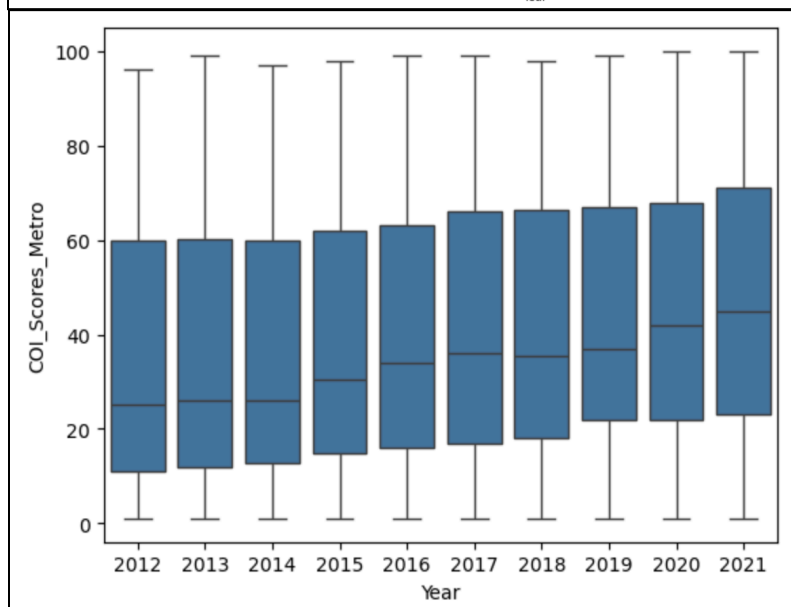


9. COI_Scores_Metro

- **Definition:** Metro normed Child Opportunity Scores (from 1 to 100) for the Child Opportunity Index.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summarized Data:**

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
○	1.00	16.00	34.00	39.74	63.00	100.00

- **Visualization**



10. Education_Level_Metro

- **Definition:** Metro normed Child Opportunity Levels (from very low to very high) for the education domain.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summarized Data:**

	Very Low	Low	Moderate	High	Very High
○	784	808	604	656	436

11. Education_Score_Metro

- **Definition:** Metro normed Child Opportunity Scores (from 1 to 100) for the education domain.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summarized Data:**

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
○	1.00	21.00	41.00	45.43	68.00	100.00

12. HealthEnviro_Level_Metro

- **Definition:** Metro normed Child Opportunity Levels (from very low to very high) for the health and environment domain.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summarized Data:**

	Very Low	Low	Moderate	High	Very High
○	2110	532	367	185	94

13. HealthEnviro_Score_Metro

- **Definition:** Metro normed Child Opportunity Scores (from 1 to 100) for the health and environment domain.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summarized Data:**

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
○	1.00	4.00	12.00	21.15	33.00	100.00

14. SocialEconomic_Level_Metro

- **Definition:** Metro normed Child Opportunity Levels (from very low to very high) for the social and economic domain.
- **Source Data:**
 - website: datadiversitykids.org
 - Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).
- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** N/A
- **Summarized Data:**

	Very Low	Low	Moderate	High	Very High
○	921	678	650	619	418

15. SocialEconomic_Score_Metro

- **Definition:** Metro-normed Child Opportunity Scores (from 1 to 100) for the social and economic domain.
- **Source Data:**
 - website: datadiversitykids.org

- Data: Child population data - Number of children aged 0-17 years by race/ethnicity (2020 census tracts).

- **Processing Steps:** Downloaded directly from datadiversitykids.org
- **Missing Observations:** 2
- **Summarized Data:**

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
○	1.00	19.00	42.00	43.47	68.00	100.00	2