An analysis of US 2020 Census Data for the Radnor-Winston neighborhood

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Abstract

In this document, I use statistics from the 2020 Decennial US Census for the census blocks that make up the Radnor-Winston neighborhood in Baltimore, MD to determine interesting information about the people who live here.

The Radnor-Winston neighborhood is a residential area in the north-central portion of Baltimore City, Maryland. It's roughly bordered on the east by York Road, on the north by Notre Dame Lane, on the west by the Loyola University in Maryland/Notre Dame in Maryland University library, and on the south by East Coldspring Lane. It contains roughly ??? homes and ??? people. More information about the neighborhood in general can be obtained on the website of the Radnor-Winston Improvement Association (RWIA) at https://www.radnorwinston.org.

1 Boundaries of the Radnor-Winston neighborhood

US Census data can be extracted at various level of granularity, from the nation, to the state, to the county, etc. The smallest unit of data is the census block, a contiguous parcel of land, delineated by physical boundaries, such as streets or streams. The next largest unit for the census is the block group, consisting of a number of contiguous blocks. Block groups can be combined into a census tract, which averages about 4,000 inhabitants. Tracts are most often combined into counties, which are combined into states.

The Radnor-Winston neighborhood (RW) is located in the state of Maryland, in "Baltimore city" (census spelling) and in census tract 2711.01. This tract is bounded by Homewood Ave, York Road, E. Cold Spring Lane and N. Charles Street. Most of the homes in this tract are not in RW. Similarly, there is no established block group which contains a majority of RW houses. For the purposes of this report, the boundaries of RW are as shown in Figure 1. These

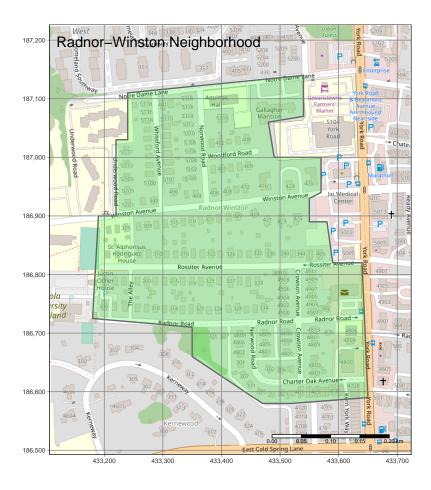


Figure 1: The Radnor Winston neighborhood

boundaries were taken by estimating the locations of corners in the map shown on the RW web-site at https://www.radnorwinsoton.org, downloaded on 13 June 2023.

Figure 2 shows the relationship of the Radnor-Winston neighborhood to the pertinent US census blocks. As can be seen, almost all of the census blocks in this area fit exactly within the boundaries of Radnor-Winston, with the exception of block 3012.

Hopefully, the analysis and data in this report can be duplicated and verified by the data found at https://data.census.gov/table. The data was extracted from the 2020 Decennial Demographic and Housing Characteristics survey.

The census blocks in Table 1 make up the RW neighborhood. For the rest of

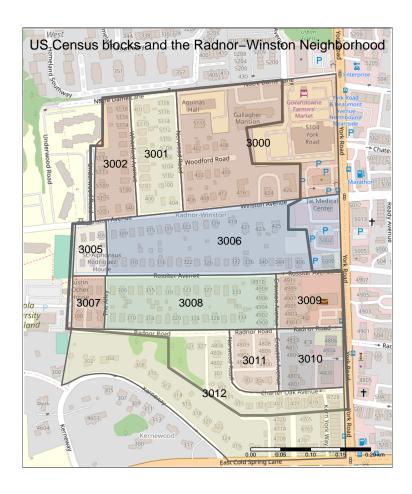


Figure 2: The Radnor Winston neighborhood shown with the pertinent census blocks. The boundaries of the Radnor-Winston neighborhood are shown with a heavy line.

this analysis, the homes in census block 3012 will not be included or considered. Of the 66? homes in census block 3012, only 27? are in the RW neighborhood. See figure 3. There is no way to tell which census data for block 3012 pertains to the RW homes, and which to the homes outside of RW. Additionally, the homes in block 3012 which border on Kerneway and the western portion of E. Coldspring Lane are significantly different than their adjacent neighbors on Kerneway. For one example, the homes on Kerneway have a median value on Zillow of \$466,000, while the median of their adjacent neighbors on Charter Oak is \$152,500.

Table 1: Census blocks in Radnor Winston

Block	Boundaries
3000	Notre Dame Lane, York Road, Winston Ave, Norwood Road (Not RW: Properties
	along York Road, including McDonald's and Loyola Public service facility)
3001	Notre Dame Lane, Norwood Road, Winston Ave, Whiteford Ave
3002	Notre Dame Lane, Whiteford Ave, Winston Ave, Underwood Road
3005	Winston Ave, The Alley, Rossiter Ave, Loyola fence
3006	Winston Ave, York Road, Rossiter Ave, The Alley (Not RW: Properties along York
	Road, including Medical Center, Popeye's and Loyola business center)
3007	Rossiter Ave, The Alley, Radnor Road, Loyola fence
3008	Rossiter Ave, Crowson Ave, Radnor Road, The Alley
3009	Rossiter Ave, York Road, Radnor Road, Crowson Ave
3010	Radnor Road, York Road, Charter Oak Ave, Crowson Ave (Not RW: Loyola IT,
	Homeland Vocational Center)
3011	Radnor Road, Crowson Ave, Charter Oak Ave, Norwood Road
3012	Radnor Road, Norwood Road, Charter Oak Ave, York Road, Coldspring Lane,
	Kerneway (Not RW: Properties along Kerneway and E. Coldspring Lane)

You'll note that all of the census blocks in the list of Radnor-Winston blocks begin with a '3.' This is an indication of the census block group. However, census blocks 3003, 3004, and 3012 are missing. We've already dealt with 3012. Figure 4 shows census block group 3, which is bordered on the north by Homewood Avenue, on the west by N. Charles Street, on the south by E. Cold Spring Lane and on the east by York Road. While this completely encompases the Radnor-Winston neighborhood, it also includes the commercial properties of Loyola in Maryland University and Notre Dame in Maryland University, including some or all of their student residences. I don't know if the student population in these residences is included in any census figures. In addition, it includes the homes along Kerneway and Westway, which are not part of Radnor-Winston.

2 People in RW

2.1 Ages and Genders of People



Figure 3: Only a portion of Census Block 3012 lies within the boundaries of Radnor Winston (shown with heavy line border).

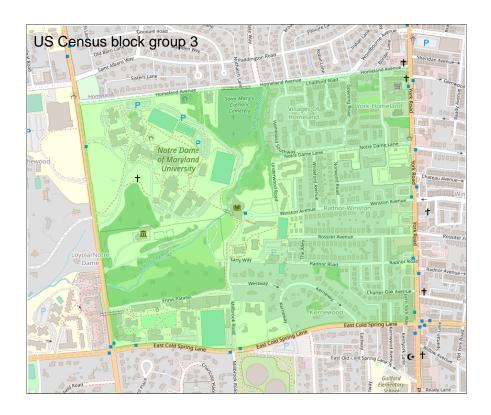


Figure 4: US Census block group 3, which, in addtion to the neighborhood of Radnor-Winston, includes the main campus of the Loyola University in Maryland and the Notre Dame University in Maryland campus. It also includes homes just north of E. Cold Spring Lane, and the Villages of Homeland, which are not in the Radnor-Winston neighborhood.

Table 2: Household Sex by Age for Selected Age Categories (Decennial Census table P12)

Household Sex by Age	United States %-age	Maryland %-age	Baltimore City %-age	RW %-age	RW Count
Total:	100.0	100.0	100.0	100.0	537
Male:	49.1	48.2	46.9	50.7	272
Under 5 years	2.8	2.9	2.8	3.7	20
5 to 9 years	3.1	3.1	2.8	3.4	18
10 to 14 years	3.3	3.3	2.8	2.2	12
15 to 17 years	2.0	2.0	1.6	1.3	7
18 and 19 years	1.4	1.3	1.2	1.9	10
20 years	0.7	0.7	0.8	0.0	(
21 years	0.7	0.7	0.7	0.7	4
22 to 24 years	2.0	1.9	2.2	0.9	
25 to 29 years	3.4	3.3	4.5	1.7	9
30 to 34 years	3.4	3.4	4.4	2.4	1;
35 to 39 years	3.3	3.3	3.5	4.7	2
40 to 44 years	3.0	3.0	2.7	2.6	14
45 to 49 years	3.0	2.9	2.4	1.3	
50 to 54 years	3.1	3.1	2.7	4.3	23
55 to 59 years	3.2	3.4	3.0	3.7	20
60 and 61 years	1.3	1.3	1.2	1.3	_
62 to 64 years	1.8	1.8	1.6	1.7	
65 and 66 years	1.1	1.1	1.0	0.9	
67 to 69 years	1.5	1.4	1.3	3.2	1
70 to 74 years	2.1	1.9	1.7	3.7	2
75 to 79 years	1.4	1.2	1.0	0.9	~
80 to 84 years	0.8	0.7	0.6	2.4	1
85 years and over	0.7	0.6	0.5	1.7	1
Female:	50.9	51.8	53.1	49.3	26
Under 5 years	2.7	2.7	2.7	2.6	1
5 to 9 years	3.0	3.0	2.6	3.0	1
10 to 14 years	3.2	3.2	2.7	3.5	1
15 to 17 years	1.9	1.9	1.5	1.1	1
18 and 19 years	1.4	1.3	1.4	0.6	
20 years	0.7	0.7	0.9	0.4	
21 years	0.7	0.6	0.8	0.4	
	1.9	1.9	2.7	2.0	1
22 to 24 years 25 to 29 years	3.3	3.3	5.2	1.9	1
v	3.4	3.6	4.8	2.6	1
30 to 34 years					
35 to 39 years	3.3	3.5	3.9	4.3	2
40 to 44 years	3.1	3.2	3.0	3.0	1
45 to 49 years	3.1	3.2	2.6	2.6	1
50 to 54 years	3.2	3.5	3.0	2.6	1
55 to 59 years	3.4	3.7	3.4	3.7	2
60 and 61 years	1.4	1.4	1.4	0.9	
62 to 64 years	2.0	2.0	2.0	3.0	1
65 and 66 years	1.2	1.2	1.2	1.1	
67 to 69 years	1.7	1.6	1.6	1.1	
70 to 74 years	2.4	2.3	2.2	4.8	2
75 to 79 years	1.7	1.6	1.4	1.9	1
80 to 84 years	1.1	1.0	1.0	0.6	
85 years and over	1.2	1.2	1.1	1.7	



Figure 5: A "Population Pyramid" comparing the population by age ranges and gender, for the United States, Maryland, Baltimore Ciry and the Radnor-Winston census block groups

Table 2 shows the breakdown of Radnor-Winston residents by age and gender groupings.

The data in table 2 can be represented graphically in a "population pyramid." Figure 5 shows the population pyramid for the United States, Maryland, Baltimore City and the Radnor-Winston census blocks. Since the population of Radnor-Winston is so small overall (537 people), the number of individuals in each age range is equally small, leading to a large statistical variability in the population percentages. For instance, the largest age group for females is 70-74 years, which is probably just a statistical abnormallity rather than a statistically significant finding.

3 Households in RW

3.1 Home ownership

Table 3 shows how the residents in Radnor-Winston own or rent their homes.

Table 5 shows the number of households in Radnor-Winston, as well as a breakdown by race of the householder.

Table 6 shows the number of households in Radnor-Winston enumerated by the size of the household.

3.2 Household Types

Table 3: Household Tenure by Presence of People under 18 Years (Decennial Census table $\mathrm{H}15$)

Household Tenure by Children	United States %-age	Maryland %-age	Baltimore City %-age	RW %-age	RW Count
Total:	100.0	100.0	100.0	100.0	221
Owner occupied:	63.1	65.0	43.3	64.3	142
With children under 18 years	18.9	20.4	10.3	19.0	42
No children under 18 years	44.2	44.7	33.0	45.2	100
Renter occupied:	36.9	35.0	56.7	35.7	79
With children under 18 years	11.4	11.4	14.3	7.2	16
No children under 18 years	25.4	23.6	42.4	28.5	63

Table 4: Households by Occupancy Status

	Maryland		Baltimore City		Tract 2711.01		Radnor-Winston	
Status	Count	%-age	Count	%-age	Count	%-age	Count	%-age
Total	2530844	100.0	293249	100.0	962	100.0	243	100.0
Occupied	2321208	91.7	251479	85.8	838	87.1	221	90.9
Vacant	209636	8.3	41770	14.2	124	12.9	22	9.1

Table 5: Household Tenure by Race, (Decennial Census table H10)

Household Tenure by Race	United States %-age	Maryland %-age	Baltimore City %-age	RW %-age	RW Count
Total:	100.0	100.0	100.0	100.0	221
Owner occupied:	63.1	65.0	43.3	64.3	142
Householder who is White alone	47.6	40.7	17.0	42.1	93
Householder who is Black or African American alone	5.0	14.9	22.7	16.7	37
Householder who is American Indian and Alaska Native alone	0.5	0.2	0.1	0.0	0
Householder who is Asian alone	3.0	4.0	0.9	0.9	2
Householder who is Native Hawaiian and Other Pacific Islander alone	0.1	0.0	0.0	0.0	0
Householder who is Some Other Race alone	2.6	1.9	0.9	1.4	3
Householder who is Two or More Races	4.3	3.3	1.8	3.2	7
Renter occupied:	36.9	35.0	56.7	35.7	79
Householder who is White alone	20.0	13.2	14.7	9.0	20
Householder who is Black or African American alone	7.1	14.8	34.0	25.3	56
Householder who is American Indian and Alaska Native alone	0.4	0.2	0.2	0.0	0
Householder who is Asian alone	2.1	1.9	2.5	0.5	1
Householder who is Native Hawaiian and Other Pacific Islander alone	0.1	0.0	0.0	0.0	0
Householder who is Some Other Race alone	3.5	2.4	2.2	0.0	0
Householder who is Two or More Races	3.7	2.4	3.0	0.9	2

Table 6: Household Tenure by Household Size, (Decennial Census table H12)

Household Tenure by Race	United States %-age	Maryland %-age	Baltimore City %-age	RW %-age	RW Count
Total:	100.0	100.0	100.0	100.0	221
Owner occupied:	63.1	65.0	43.3	64.3	142
1-person household	14.0	14.1	13.8	15.4	34
2-person household	22.8	21.8	14.5	22.6	50
3-person household	10.1	11.3	7.1	7.2	16
4-person household	9.0	10.0	4.4	10.0	22
5-person household	4.2	4.5	2.0	6.8	15
6-person household	1.8	1.9	1.0	2.3	5
7-or-more-person household	1.2	1.3	0.7	0.0	0
Renter occupied:	36.9	35.0	56.7	35.7	79
1-person household	13.6	12.9	24.9	22.6	50
2-person household	10.0	9.2	15.1	5.0	11
3-person household	5.5	5.3	7.4	2.3	5
4-person household	4.0	3.9	4.6	2.3	5
5-person household	2.1	2.0	2.4	1.8	4
6-person household	1.0	1.0	1.2	0.9	2
7-or-more-person household	0.7	0.7	1.0	0.9	2

Table 7: Household Types (Decennial Census table P16)

Household Types	United States %-age	Maryland %-age	Baltimore City %-age	RW %-age	RW Count
Total:	100.0	100.0	100.0	100.0	221
Family households:	65.3	66.5	50.3	55.2	122
Married couple family	46.3	45.7	23.0	37.1	82
Other family:	19.0	20.8	27.2	18.1	40
Male householder, no spouse present	5.7	5.6	5.9	4.5	10
Female householder, no spouse present	13.3	15.1	21.3	13.6	30
Nonfamily households:	34.7	33.5	49.7	44.8	99
Householder living alone	27.6	27.0	38.7	38.0	84
Householder not living alone	7.1	6.5	11.0	6.8	15

Table 8: Household Tenure by Age of Householder (Decennial Census table H13)

Household Tenure by Age	United States %-age	Maryland %-age	Baltimore City %-age	RW %-age	RW Count
Total:	100.0	100.0	100.0	100.0	221
Owner occupied:	63.1	65.0	43.3	64.3	142
Householder 15 to 24 years	0.6	0.4	0.4	1.8	4
Householder 25 to 34 years	5.7	5.6	5.3	4.5	10
Householder 35 to 44 years	9.7	10.4	7.0	11.3	25
Householder 45 to 54 years	11.8	13.0	7.0	8.1	18
Householder 55 to 59 years	7.1	7.9	4.5	9.5	21
Householder 60 to 64 years	7.3	7.6	4.8	8.1	18
Householder 65 to 74 years	12.3	12.0	8.4	12.7	28
Householder 75 to 84 years	6.4	6.0	4.2	6.3	14
Householder 85 years and over	2.2	2.1	1.6	1.8	4
Renter occupied:	36.9	35.0	56.7	35.7	79
Householder 15 to 24 years	3.2	2.3	4.4	0.5	1
Householder 25 to 34 years	9.2	8.7	16.1	8.1	18
Householder 35 to 44 years	7.2	7.3	10.1	6.8	15
Householder 45 to 54 years	5.8	5.7	7.6	5.0	11
Householder 55 to 59 years	2.8	2.7	4.6	1.4	3
Householder 60 to 64 years	2.5	2.4	4.4	0.5	1
Householder 65 to 74 years	3.5	3.3	6.0	6.8	15
Householder 75 to 84 years	1.8	1.7	2.4	4.5	10
Householder 85 years and over	0.9	0.9	1.0	2.3	5

Table 9: Household Size (Decennial Census table H9)

Household Size	United States %-age	Maryland %-age	Baltimore City %-age	RW %-age	RW Count
Total:	100.0	100.0	100.0	100.0	221
1-person household	27.6	27.0	38.7	38.0	84
2-person household	32.9	31.0	29.5	27.6	61
3-person household	15.6	16.6	14.5	9.5	21
4-person household	13.0	13.9	9.1	12.2	27
5-person household	6.3	6.6	4.4	8.6	19
6-person household	2.7	2.9	2.2	3.2	7
7-or-more-person household	1.8	2.0	1.6	0.9	2

Table 7 shows the households in Radnor-Winston by Household Type, including family and non-family households.

3.3 Householder by Age

Table 8 shows the age range of the householders in the Radnor-Winston neighborhood.

3.4 Households by Size

Household income

4 Children in RW

Table 10 shows the number of households in the Radnor-Winston neighborhood with persons under the age of 18 present. A simple comparison of percentages is misleading, as RW has significantly more Owner-occupied households

Table 10: Household Tenure by Presence of People under 18 Years (Decennial Census table H15)

Household Tenure by Children	United States %-age	Maryland %-age	Baltimore City %-age	RW %-age	RW Count
Total:	100.0	100.0	100.0	100.0	221
Owner occupied:	63.1	65.0	43.3	64.3	142
With children under 18 years	18.9	20.4	10.3	19.0	42
No children under 18 years	44.2	44.7	33.0	45.2	100
Renter occupied:	36.9	35.0	56.7	35.7	79
With children under 18 years	11.4	11.4	14.3	7.2	16
No children under 18 years	25.4	23.6	42.4	28.5	63

than Baltimore City, although a comprable proportion compared to the state of Maryland and the nation as a whole.

Age breakdown

5 Race in RW

Table 12 shows the self-identified racial makeup of the people in the Radnor-Winston neighborhood.

Table 12 shows the self-identified race of the householders in the Radnor-Winston neighborhood.

6 Additional Resources

Additional statistical information on Radnor-Winston can be obtained from the Open Baltimore website of the city of Baltimore, at https://data.baltimorecity.gov/datasets/neighborhood-1/explore. The Radnor-Winston neighborhood is OBJECTID 217 in this system.

The Baltimore Neighborhood Indicators Alliance, at https://bniajfi.org/vital_signs/, groups the Radnor-Winston neighborhood into the "North Baltimore/Guilford/Homeland" area. This is less than helpful, as this geographic area contains many homes and households with very different characteristics than Radnor-Winston.

6.1 Discussion

You can participate in a discussion of these results on the project's web page, at https://github.com/kzembower/RW_Census/wiki. This is a good place to ask questions or propose alternative conclusions to the ones I've offered in this paper. Additionally, you can email me directly at kevin@zembower.org.

Table 11: Sex by Age under 20 (Decennial Census table P14)

Sex by Age (under 20)	United States %-age	Maryland %-age	Baltimore City %-age	RW %-age	RW Count
Total:	100.0	100.0	100.0	100.0	125
Male:	51.1	51.0	50.4	53.6	67
Under 1 year	2.2	2.2	2.7	3.2	4
1 year	2.2	2.2	2.4	0.8	1
2 years	2.3	2.3	2.5	1.6	2
3 years	2.4	2.4	2.4	5.6	7
4 years	2.4	2.4	2.5	4.8	6
5 years	2.5	2.5	2.6	4.0	5
6 years	2.5	2.5	2.5	2.4	3
7 years	2.5	2.5	2.5	2.4	3
8 years	2.5	2.6	2.6	4.8	6
9 years	2.5	2.6	2.4	0.8	1
10 years	2.7	2.7	2.5	0.8	1
11 years	2.7	2.6	2.6	2.4	3
12 years	2.7	2.8	2.6	3.2	4
13 years	2.7	2.7	2.5	0.8	1
14 years	2.7	2.7	2.5	2.4	3
15 years	2.7	2.6	2.4	3.2	4
16 years	2.7	2.7	2.3	0.8	1
17 years	2.7	2.7	2.4	1.6	2
18 years	2.7	2.7	2.5	0.8	1
19 years	2.9	2.7	3.1	7.2	9
Female:	48.9	49.0	49.6	46.4	58
Under 1 year	2.1	2.1	2.5	2.4	3
1 year	2.1	2.1	2.4	6.4	8
2 years	2.2	2.2	2.4	1.6	2
3 years	2.3	2.3	2.5	0.0	0
4 years	2.3	2.3	2.5	0.8	1
5 years	2.4	2.4	2.4	3.2	4
6 years	2.4	2.4	2.4	4.8	6
7 years	2.4	2.4	2.4	0.8	1
8 years	2.4	2.5	2.4	2.4	3
9 years	2.4	2.5	2.3	1.6	2
10 years	2.5	2.5	2.5	0.0	0
11 years	2.5	2.6	2.5	4.0	5
12 years	2.6	2.6	2.5	4.8	6
13 years	2.6	2.6	2.4	2.4	3
14 years	2.6	2.5	2.3	4.0	5
15 years	2.6	2.6	2.3	2.4	3
16 years	2.6	2.6	2.3	0.8	1
17 years	2.5	2.5	2.3	1.6	2
18 years	2.6	2.6	2.5	2.4	3
19 years	2.8	2.7	3.8	0.0	0

Table 12: Household Tenure by Race (Decennial Census table H6)

Household Tenure by RAce	United States %-age	Maryland %-age	Baltimore City %-age	RW %-age	RW Count
Total:	100.0	100.0	100.0	100.0	221
Householder who is White alone	67.6	53.9	31.7	51.1	113
Householder who is Black or African American alone	12.1	29.7	56.7	42.1	93
Householder who is American Indian and Alaska Native alone	0.9	0.4	0.3	0.0	0
Householder who is Asian alone	5.2	5.9	3.4	1.4	3
Householder who is Native Hawaiian and Other Pacific Islander alone	0.1	0.0	0.0	0.0	0
Householder who is Some Other Race alone	6.1	4.3	3.0	1.4	3
Householder who is Two or More Races	8.0	5.7	4.8	4.1	9