# Data dictionary of JHS built environment data

Jackson Heart Study (JHS) built environment data contains the neighborhood built environment information of JHS participants’ neighborhood at the time when they participated in JHS exam 1 and exam 2. Each row represents a participant-exam combination. Addresses were obtained from JHS exams or follow ups. For exam 1, addresses are based on exam 1 addresses. For exam 2, the address for the closest follow-up was attributed to the time of the exam (see address document: *JHS addresses and NETS geocode\_documentation.doc* *Page 4, Section IV* for details). The dataset contains a series of neighborhood built environment variables created based on the geographic information of participants’ neighborhood and providing information on neighborhood land use, street connectivity, pedestrian/bike fatality crashes and population density.

The JHS neighborhood built environment dataset (*jhs \_be.sas7bdat*) contains 9504 rows and 61 variables. These data represent a total of 5301 JHS participants, of which 4203 have information for both JHS exams 1 and exam 2, 1098 have information only on exam 1, and 0 have information on only exam 2. The data dictionary and the related reference documentation for variables are listed below. Details on how each variable was created can be found in *BuiltEnvironmentVariableBreifSummary.docx*.

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| **NAME** | **LABEL** |
| **JHS participant information** |  |
| ID | Fake ID from JHS |
| exam | Exam when the sample was collected |
| **Neighborhood Built Environment** |  |
| **pedestrian/bike fatality crashes** |  |
| K0CRASH | 1/2 Mile kernel density ped/bike crashes |
| K14CRASH | 1/4 Mile kernel density ped/bike crashes |
| K1CRASH | 1 Mile kernel density ped/bike crashes |
| S0CRASH | 1/2 Mile simple density ped/bike crashes |
| S14CRASH | 1/4 Mile simple density ped/bike crashes |
| S1CRASH | 1 Mile simple density ped/bike crashes |
| **neighborhood land use** |  |
| COMMAREA0 | Commercial Area for 1/2 mile (meters sq) |
| COMMAREA1 | Commercial Area for 1 mile (meters sq) |
| COMMAREA14 | Commercial Area for 1/4 mile (meters sq) |
| HTOTAREA0 | Total Area of 1/2 mile buffer in hectares |
| HTOTAREA1 | Total Area of 1 mile buffer in hectares |
| HTOTAREA14 | Total Area of 1/4 mile buffer in hectares |
| INLUCOUNTY | Falls within county boundaries for land use data (0=outside; 1=within) |
| MTOTAREA0 | Total Area of 1/2 mile buffer in meters sq |
| MTOTAREA1 | Total Area of 1 mile buffer in meters sq |
| MTOTAREA14 | Total Area of 1/4 mile buffer in meters sq |
| PCOM0 | Percent Commercial 1/2 mile |
| PCOM1 | Percent Commercial 1 mile |
| PCOM14 | Percent Commercial 1/4 mile |
| PCTLU0 | Percent of 1/2 mile buffer in land use data boundary (Hinds County) |
| PCTLU1 | Percent of 1 mile buffer in land use data boundary (Hinds County) |
| PCTLU14 | Percent of 1/4 mile buffer in land use data boundary (Hinds County) |
| PRES0 | Percent Residential 1/2 mile |
| PRES1 | Percent Residential 1 mile |
| PRES14 | Percent Residential 1/4 mile |
| PRET0 | Percent Retail 1/2 mile |
| PRET1 | Percent Retail 1 mile |
| PRET14 | Percent Retail 1/4 mile |
| RESIDAREA0 | Residential Area for 1/2 mile (meters sq) |
| RESIDAREA1 | Residential Area for 1 mile (meters sq) |
| RESIDAREA14 | Residential Area for 1/4 mile (meters sq) |
| RETAREA0 | Retail Area for 1/2 mile (meters sq) |
| RETAREA1 | Retail Area for 1 mile (meters sq) |
| RETAREA14 | Retail Area for 1/4 mile (meters sq) |
| SDCOMM | Distance to closest commercial (meters) |
| SDRET | Distance to closest retail (meters) |
| **neighborhood population density** |  |
| POPDENKM0 | Population density per sq km 1/2 mile |
| POPDENKM1 | Population density per sq km 1 mile |
| POPDENKM14 | Population density per sq km 1/4 mile |
| POPDENMI0 | Population density per sq mile 1/2 mile |
| POPDENMI1 | Population density per sq mile 1 mile |
| POPDENMI14 | Population density per sq mile 1/4 mile |
| TOTPOP0 | Total population 1/2 mile |
| TOTPOP1 | Total population 1 mile |
| TOTPOP14 | Total population 1/4 mile |
| **street connectivity** |  |
| INTCNT0 | Number of intersections in 1/2 mile buffer |
| INTCNT1 | Number of intersections in 1 mile buffer |
| INTCNT14 | Number of intersections in 1/4 mile buffer |
| IntDen0 | Intersection density for 1/2 mile |
| IntDen1 | Intersection density for 1 mile |
| IntDen14 | Intersection density for 1/4 mile |
| NetArea0 | Area of 1/2 mile Network buffer (meters sq) |
| NetArea1 | Area of 1 mile Network buffer (meters sq) |
| NetArea14 | Area of 1/4 mile Network buffer (meters sq) |
| NetRatio0 | Network Ratio 1/2 mile |
| NetRatio1 | Network Ratio 1 mile |
| NetRatio14 | Network Ratio 1/4 mile |
| **Bus transportation** |  |
| MS\_BUSROUTE | Distance to closest bus route (meters) |
| MS\_BUSSTOP | Distance to closest bus stop (meters) |

\*4 records at Exam 1 and 1 record at Exam 2 have missing value for all variables because their addresses cannot be geocoded.